

Volume

#

R0544

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

A 544

FIELD NOTES

Page

Ta 36, 37, 38 + 39 S R 12 + 13 E

Of the Meridian,

In the State of

EXECUTED BY

Under special instructions dated, 19....., which provided
for the surveys included under Group No., approved
and assignment instructions dated, 19.....

Survey commenced, 19.....

Survey completed, 19.....

INDEX DIAGRAM

T.36S.		T.37S.		T.38S.		T.39S.					
1	0	1	53	6	1	42	6	2	37	6	
12	7	12	50	7	12	41	7	12	32	7	
13	18	13	49	18	13	40	18	13	31	18	
	R.12E		R.13E		R.12E		R.13E		R.12E	R.13	
24	19	24	48	19	24	38	19	24	29	19	
25	56	80	25	46	20	25	37	20	25	28	20
26	54	81	26	44	21	26	36	21	26	27	21

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES

T_a 36, 37, 38 + 39 S R_a 14 + 15 E

Of the Meridian,

In the State of

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Under special instructions dated, 19....., which provided
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and assignment instructions dated, 19.....

Survey commenced, 19.....

Survey completed, 19.....

INDEX DIAGRAM

Township , Range

	<i>T. 36 S.</i>	<i>T. 37 S.</i>	<i>T. 38 S.</i>	<i>T. 39 S.</i>
1	89 0	1 83 6	1 77 6	1 70 6
12	88 7	12 82 7	12 76 7	12 69 7
23	87 18	13 82 18	13 75 18	13 68 18
<i>R. 14 E.</i>	<i>R. 15 E.</i>	<i>R. 14 E.</i>	<i>R. 15 E.</i>	<i>R. 14 E.</i> <i>R. 15 E.</i>
24	86 19	24 81 19	24 74 19	24 67 19
25	86 30	25 80 30	25 73 30	25 66 30
26	84 31	26 78 21	26 71 31	26 65 31

UNITED STATES
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BUREAU OF LAND MANAGEMENT

FIELD NOTES

T₂ 36, 37, 38 + 39 S R₂ 16 + 17E

14

Of the Meridian,

In the State of

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Under special instructions dated, 19....., which provided
for the surveys included under Group No., approved
and assignment instructions dated, 19.....

Survey commenced, 19.....

Survey completed, 19.....

INDEX DIAGRAM

Township 37S, Range 73E S T. 39 S

1	124		1	117		1	110		1	102	
12	123		12	116		12	109		12	100	
13	122		13	114		13	107		13	99	
R. 16 E.	R. 17 E.		R. 16 E.	R. 17 E.		R. 16 E.	R. 17 E.		R. 16 E.	R. 17 E.	
24	120		24	113		24	106		24	98	
25	119		25	112		25	105		25	97	
26	118		26	111		26	103		26	96	

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FIELD NOTES

T 36 S R 20 E

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Of the Meridian,

In the State of

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Under special instructions dated, 19....., which provided
for the surveys included under Group No., approved
and assignment instructions dated, 19.....

Survey commenced, 19.....

Survey completed, 19.....

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INDEX DIAGRAM

Township 36 SOUTH, Range 20 EAST

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	132 36

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T 37 S R 12 E

Of the Meridian,

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Survey commenced, 19.....

Survey completed, 19.....

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INDEX DIAGRAM

Township 37 SOUTH, Range 12 EAST

143	142	142	141	140	139
6	5	4	149	150	151
				151	
7	8	9	148	10	11
		154			
16	17	153	147	15	14
		152			
19	20	21	147	22	23
30	29	28	146	27	26
	157				
31	156	32	155	33	145
			145	34	35
					144
					36

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T 375 R 13 E

Of the Meridian,

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and assignment instructions dated, 19.....

Survey commenced, 19.....

Survey completed, 19.....

INDEX DIAGRAM

Township 37 SOUTH , Range 13 EAST

6	5	4	3	170	2	169	1	168
						170		
7	8	9	10	11	12	13	14	167
		172						
16	17	172	18	171	15	14	13	166
		171						
19	20	21	22	23	24	25	26	166
29	30	31	32	33	34	35	36	165
	174						169	
31	173	32	173	33	34	35	168	36
								164

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Under special instructions dated, 19....., which provided
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Survey commenced, 19.....

Survey completed, 19.....

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INDEX DIAGRAM

Township 37 SOUTH, Range 14 EAST

6	5	4	3	182	2	181	1	
						181		
7	8	9	10		11		12	
		184						
13	17	183	16	15	14		18	
		183						
19	20	21	22	23	24		25	
26	29	28	27	26	25		28	
	185						186	
31	184	32	184	33	34	35	179	36

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T 37 S R 17 E

Of the Meridian,

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Survey commenced, 19.....

Survey completed, 19.....

INDEX DIAGRAM

Township 37 SOUTH , Range 17 EAST

6	5	4	199	3	2	1	194
						201	
7	8	9	198	10	11	201	193
		20f				200	
18	17	203	198	16	14	18	193
		20a					
19	20	21	197	22	23	24	192
30	29	28	196	27	26	25	191
	20.5					19.5	
31	20.5	32	20f	33	196	34	35
						19.5	36
							190

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T 375 R 18 E

Of the Meridian,

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Survey completed, 19.....

INDEX DIAGRAM

Township 37 SOUTH , Range 18 EAST

6	5	4	223	3	223	2	224	1
							224	
7	8	9	222	10		11		12
			226					
13	17	225	16	221	15	14		13
		225						
19	20	21	221	22		23		24
25	29	28	220	27		26		25
								218
31	227	32	227	33	219	34	35	214
								36

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Survey commenced, 19.....

Survey completed, 19.....

INDEX DIAGRAM

Township 37 SOUTH, Range 19 EAST

242	242	241	240	240	239
•	•	•	248	• 250	• 248
				249	
7	8	9	247	10	11
		252			
18	17	251	16	246	15
		251			
19	20	21	246	22	23
30	29	28	245	27	26
	254				244
31	253	32	253	33	244
			244		
				35	243
					36

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FIELD NOTES

T37 SR20E

Of the Meridian,

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Under special instructions dated, 19....., which provided
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Survey commenced, 19.....

Survey completed, 19.....

INDEX DIAGRAM

Township 37 SOUTH, Range 20 EAST

0	5	4	3	2	1
7	8	9	10	11	12
		265			
13	17 264	16 264	15	14	13
		263			
19	20	21 263	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36

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+ 375 R 21 E

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Of the Meridian,

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Under special instructions dated, 19....., which provided
for the surveys included under Group No., approved
and assignment instructions dated, 19.....

Survey commenced, 19.....

Survey completed, 19.....

INDEX DIAGRAM

Township 37 SOUTH , Range 21 EAST

6	324	7	312	8	304	9	295	10	286	11	
324	323	312	303	295	286						
7	322	8	311	9	302	10	294	11	285	12	
321	321	310	302	293	284						
13	320	14	309	15	301	16	292	17	284	18	278
319	319	308	300	291	283						
19	318	20	308	21	299	22	290	23	282	24	277
317	316	307	298	290	281						
25	315	26	306	27	298	28	289	29	280	30	275
315	314	305	297	288	280						
31	313	32	304	33	296	34	287	35	279	36	274

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T 38 S R 17 E

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Of the Meridian,

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Survey commenced, 19.....

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INDEX DIAGRAM

Township 38 SOUTH, Range 17 EAST

339	339	338	337	337	336
•	•	•	345	347	345
					335
				346	
7	8	9	344	10	11
					12
			349		334
13	17	348	16	343	15
					14
			347		13
19	20	21	342	22	23
					24
					333
29	29	28	342	27	26
					25
					332
	351				340
31	350	32	349	33	341
					34
					35
					340
					36
					331

UNITED STATES
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FIELD NOTES

T 385 P 18 E

Of the Meridian,

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Township 38 SOUTH , Range 18 EAST

366	366	365	364	363	363
•	•	•	372 •	374 •	373 •
				373	
7	•	•	371 10	11	12
		376			
18	17	375 18	371 16	14	15
		374			
19	20	21	370 22	23	24
30	29	28	370 27	26	25
	378				368
31	377 32	376 33	369 34	35	367 36

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T 38 SR 19 E

Of the Meridian,

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Township 38 SOUTH, Range 19 EAST

397	396	396	395	394	393
•	•	•	403 •	405 •	404 1 393
7	•	•	402 10	11	12 392
		407			
18	17	406 16	402 15	14	13 391
		406			
19	20	21	401 22	23	24 390
20	29	28	400 27	26	25 389
	410				398
31	409 32	408 33	399 34	35	397 36 381

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T 38 SR 20 E

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Of the Meridian,

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Survey completed, 19.....

INDEX DIAGRAM

Township 38 SOUTH , Range 20 EAST

			426	427	429
					428
7	8	9	426	10	11
			431		12
13	14	15	430	16	17
			425		18
			429		
19	20	21	424	22	23
					24
25	26	27	424	28	29
					30
			433		422
31	432	32	432	33	423
					34
					35
					422
					36

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T 39 S R 17 E

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Of the Meridian,

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and assignment instructions dated, 19.....

Survey commenced, 19.....

Survey completed, 19.....

INDEX DIAGRAM

Township 39 SOUTH, Range 17 EAST

444	444	443	442	441	441
•	•	•	450 •	452 •	451 •
				452	
7	8	9	450 10	11	12
		454			
16	17	454 18	449 15	14	13
		453			
19	20	21	448 22	23	24
30	29	28	448 27	26	25
	456				446
31	456 32	455 33	447 34	35	445 36

UNITED STATES
DEPARTMENT OF THE INTERIOR
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FIELD NOTES

T 38 S R 21 E

Of the Meridian,

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Survey commenced, 19.....

Survey completed, 19.....

INDEX DIAGRAM

Township 38 South, Range 21 EAST

• 496	•	• 492	• 491	• 480	• 472	• 1
7 495	•	•	• 489	10 478	11 471	19
18 494	17	16	487	15 477	14 469	18
19 493	20	21	485	22 476	23 468	24
20 492	20	28	482	27 474	26 466	25
21 491	22	23	480	24 473	25 465	26

UNITED STATES
DEPARTMENT OF THE INTERIOR
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FIELD NOTES

T 38 S R 21 E

500

Of the Meridian,

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Survey commenced, 19.....

Survey completed, 19.....

INDEX DIAGRAM

Township 38 SOUTH, Range 21 EAST

507	521	520	4	8	9	1
506	519	512	518	10	11	12
505	518	511	517	15	14	13
504	516	510	515	22	23	24
503	514	509	513	27	26	25
502	513	508		34	35	36

UNITED STATES
DEPARTMENT OF THE INTERIOR
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FIELD NOTES

T 39 S R 20 E

535

Of the Meridian,

In the State of

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and assignment instructions dated, 19.....

Survey commenced, 19.....

Survey completed, 19.....

INDEX DIAGRAM

Township 39 SOUTH, Range 20 EAST

532	532	531	530	529	529
6	5	4	539 3	540 2	541 1
				541	
7	8	9	539 10	11	12
		545			
13	17	544 16	538 15	14	18
		544			
19	20	543 21	537 22	23	24
		542			
29	29	28	537 27	26	25
	547		535		534
31	547 32	546 33	536 34	534 35	533 36

UNITED STATES
DEPARTMENT OF THE INTERIOR
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FIELD NOTES

W Bdy Navajo Indian Res.

Of the Meridian,

In the State of

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Survey commenced, 19.....

Survey completed, 19.....

T. 39 S.

INDEX DIAGRAM

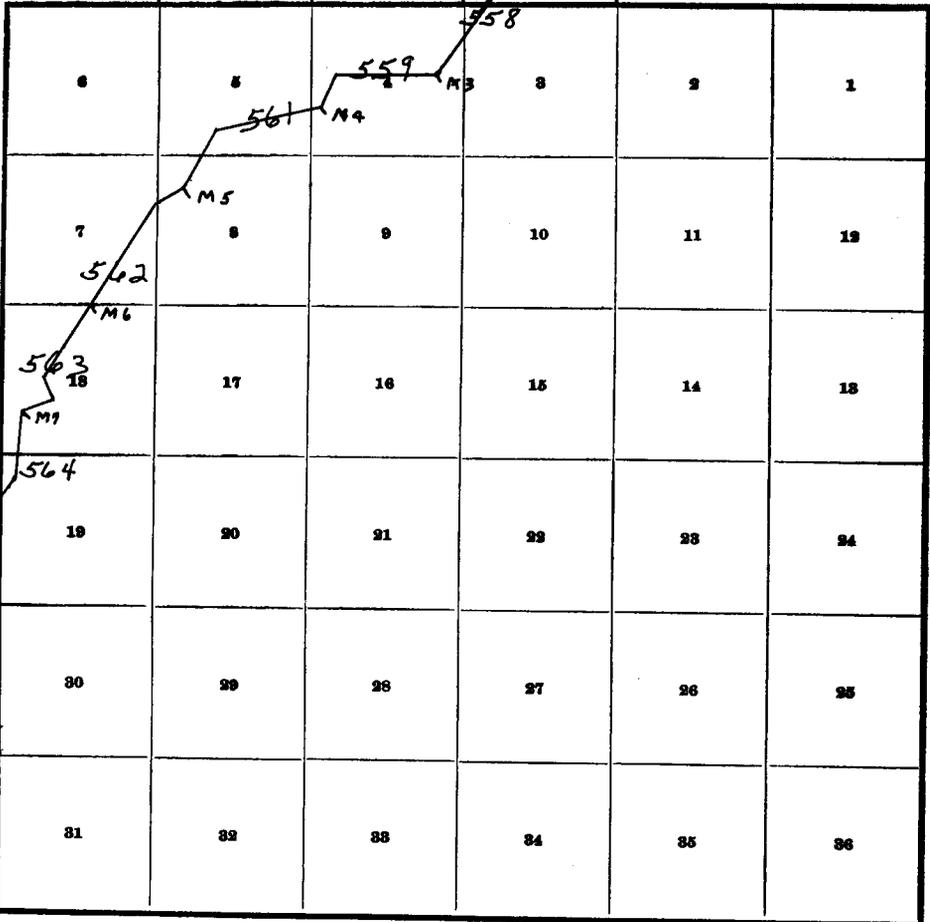
31
Township

32

33

34

Range



T. 40 S.

24

R. 23 E.

R. 24 E.

GPO 666119

UTAH-COLORADO STATE LINE

567
568
569
570
571
572
573
574
575

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INDEX DIAGRAM

Township, Range

6	5	4	3	2	1
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36

BOOK "B"

RECEIVED
APR 25 1932
Department Of The Interior
Public Survey Office
Salt Lake City, Utah

FIELD NOTES

OF THE SURVEY OF THE

RANGE LINE

between

RANGES 12 and 13 EAST

IN

TOWNSHIPS 39, 38, 37 and 36 SOUTH

Of the SALT LAKE Meridian,

In the State of UTAH

EXECUTED BY

ROBERT C YUNDT

In the capacity of U.S. Surveyor..., under Special Instructions dated September 10...,
19.28., issued by the District Cadastral Engineer to govern surveys included in Group
No. 217..., which were approved by the Commissioner of the General Land
Office, September 24, 19.28., and Assignment Instructions dated March 18., 1930.

Survey commenced April 28, 19.30.

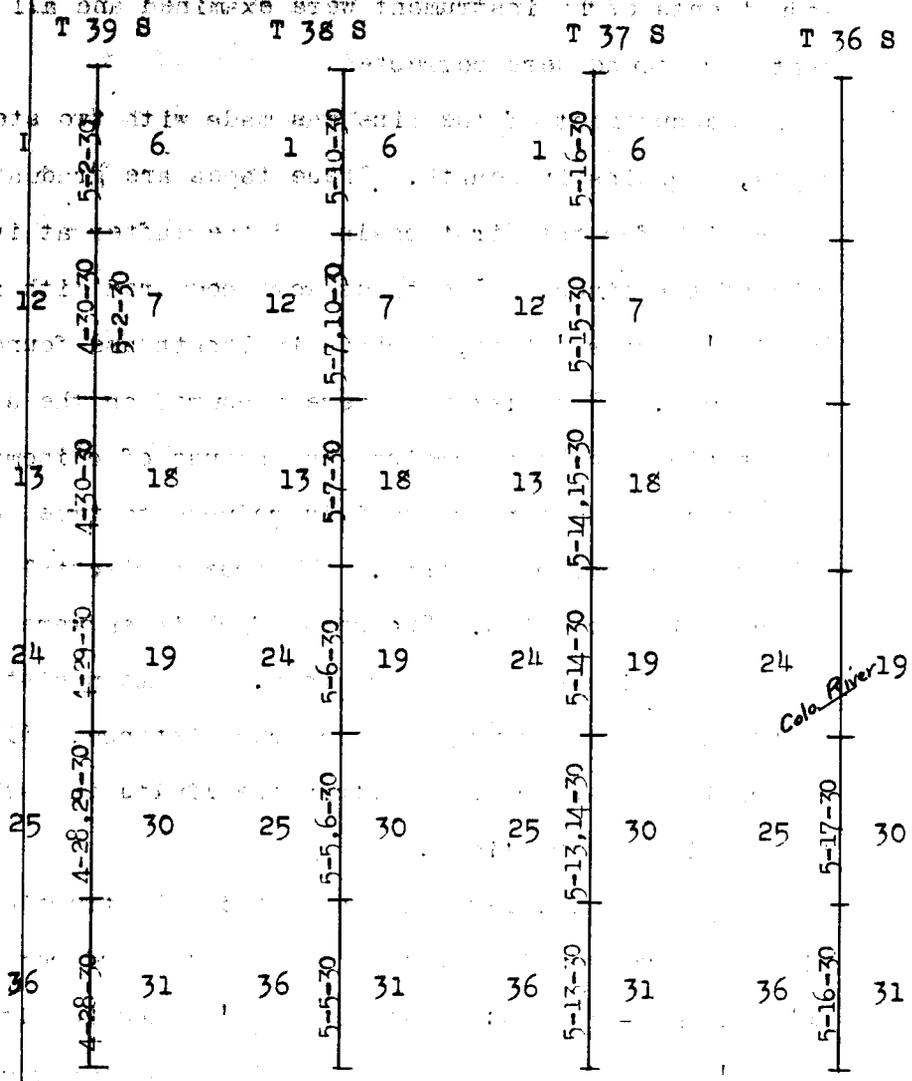
Survey completed May 17, 19.30

INDEX DIAGRAM.

	T368	T378			T388			T398		
1	6	1	29	6	1	18	6	1	10	6
12	7	12	26	7	12	17	7	12	8	7
13	18	13	25	18	13	16	18	18	7	18
R12E	R13E	R12E								
24	19	24	24	19	24	14	19	24	5	19
34										
25	32	25	22	30	25	13	30	25	4	30
36	30	36	20	31	36	12	31	36	3	31

2462-244
 2465-244
 2471-244
 2475-244

Date Diagram



All lines surveyed by Robert C. Yundt, U. S. Surveyor.

The survey was executed with a Buff and Buff solar transit, number 9797, the property of the General Land Office. The horizontal circle of the instrument has a diameter of 4½ inches and has two double verniers placed opposite to each other and graduated to single minutes of arc; the vertical circle is 3 inches in diameter and has one double vernier, this is also graduated to single minutes of arc. The instrument is equipped with an improved Smith solar attachment, however, as this attachment was not used on this survey, no description is included. The instrument was in good adjustment and was approved for use on the work by the District Cadastral Engineer in assignment instructions dated March 18, 1930, condi-

made in the field prior to the survey. All of the adjustments of the instrument were examined and all errors that were found were corrected.

The measurement of the line was made with two steel tapes, 8 chains in length. These tapes are graduated every link for the first chain and thereafter at intervals of ten links. The tapes were compared with a Lufkin 'standard' tape, 1 chain in length and found to be correct. The distances were measured on the slope, the vertical angle determined by the use of clinometers and the slope distances properly reduced to true horizontal and vertical components. The true horizontal distance was used in the notes. Two sets of chainmen were employed and the line was double chained. The mean distance of the two sets was used as the true distance. All of the chaining was accurate within the limits imposed by the special instructions.

The data furnished with the special instructions give the geographic position of the standard corner of T₄₀ S, R₁₂₋₁₃ E as: Latitude $37^{\circ}16'$ N and longitude $110^{\circ}31'$ W. The latitude of this line has been checked by me on numerous occasions and found to agree with the instrumental latitude. These observations were made while engaged on adjacent work. This corner is six miles south of my starting point on this work and the latitude for subsequent observations is carried forward through the survey work to the point needed.

The azimuth of the initial line was determined at the corner of T₃₉₋₄₀ S, R₁₂ and ₁₃ E, under Group 200, a record of this may be found in the notes of the survey of the East Boundary of T₄₀ S, R₁₂ E of that Group.

Chains

Beginning at the corner of Ts 39 and 40 S, Rs 12 and 13 E, which is an iron post, 3 ins. in diameter, projecting about 6 ins. above the ground, firmly set, marked and witnessed as described in the official record, thence

North between sections 31 and 36, over rolling land, through scattering timber and scant undergrowth, descend 30 ft. along a NE slope.

16.00 Draw, drains NW; ascend 30 ft. along a SW slope.

22.70 Sandstone spur, projects W, descend 10 ft. along a NW slope.

The difference between the measurement of 40.00 chains by two sets of chainmen is nothing.

40.00 On a gentle NW slope, on sloping sandstone, cut a cross (X) deeply into rock. The slope of the rock at this point makes the setting of the post here impracticable

40.56 Mean distance,

Set an iron post, 3 ft. long and 1 in. in diameter, 18 ins. in the ground to solid rock and in a mound of stone, for the witness $\frac{1}{4}$ section corner, with a brass cap marked:



from which

A juniper, 3 ins. in diameter, marked 'BT' bears $\text{N } 58^{\circ}15' \text{ E}$, 147 links distant.

A juniper, 6 ins. in diameter, marked $\text{WC } \frac{1}{4} \text{S36BT}$, bears $\text{N } 60^{\circ}00' \text{ W}$, 390 links distant.

Descend 40 ft. along a NW slope.

71.00 Small draw, drains SW, continue along a gentle W slope.

The difference between the measurement of the north 40.00 chains by two sets of chainmen is nothing.

80.00 On a gentle W slope, over a cross (X) cut in solid rock

Set an iron post, 3 ft. long and 2 ins. in diameter in a mound of stone, with brass cap marked:

T 39 S

Chains

T39S	
R12E	R13E
S25	S30
S36	S31
1930	

from which

A juniper, 3 ins. in diameter, marked 'BT' bears
N 56°45' E, 32 links distant.

A juniper, 3 ins. in diameter, marked 'BT' bears
S 57°45' E, 210 links distant.

A juniper, 8 ins. in diameter, marked T39SR12ES36BT,
bears S 81°30' W, 435 links distant.

A juniper, 3 ins. in diameter, marked 'BT' bears
N 13°00' W, 354 links distant.

Land, rolling mesa top, general W exposure and drainage.

Soil, deep sandy loam, 1st rate.

Timber, juniper.

Undergrowth, black brush, mountain rush and amole plant.

Light stand of sand grass.

Fair grazing.

North, between sections 25 and 30,

Over rolling land through scattering timber and
scant undergrowth, ascend 5 ft. along a SW slope.

40.30 Low spur, projects W, descend 10 ft. along a NW slope.

23.00 Small draw, drains SW, ascend 15 ft. along a SW slope.

The difference between the measurement of 40.00 chains
by two sets of chainmen is 02 links:

By the 1st set 40.01

By the 2nd set 39.99, the mean of

which is:

40.00 On a gentle SW slope,

Set an iron post, 3 ft. long and 1 in. in diameter 30
ins. in the ground for the section corner, with a
brass cap marked:

S25	S30
1930	

T 39 8

Chains

A juniper, 8 ins. in diameter, marked 'S30BT', bears
N 14°15' E, 59 links distant.

No other tree available for marking.

Ascend 25 ft. along a SW slope.

41.80

Sandstone spur, projects W, thence along a W slope.

75.12

Set flag on the top of a low sandstone spur projecting
W. Descend 20 ft. along a NW slope.

The difference between the measurement of 40.00 chains
by two sets of chainmen is 04 links:

By the 1st set 40.02

By the 2nd set 39.98, the mean of which is 40.00.

80.00

On a NW slope,

Set an iron post, 3 ft. long and 2 ins. in diameter 12
ins. in the ground to solid rock and in a mound of s
stone for the corner of sections 19, 24, 25 and 30,
with a brass cap marked:

T398	
P12F	P13E
S24	S19
S25	S30
1930	

from which

A juniper, 3 ins. in diameter, marked 'BT', bears
S 80°30' E, 167 links distant.

A juniper, 3 ins. in diameter, marked 'ET', bears
N 37°15' W, 254 links distant.

No other suitable tree available for marking.

Land, rolling bench, general W exposure and drainage.

Soil, deep sandy loam, 1st rate.

Timber, scrub juniper.

Undergrowth, black brush and white sage.

Fair grazing.

North, between sections 19 and 24.

Over rolling land, through scattering timber and scant
undergrowth, descend 45 ft. along a NW slope.

8.90

Draw, drains SW, ascend 10 ft. along a SW slope to spur.

T 39 S

Chains

anis 13

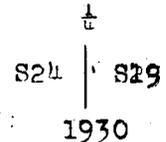
- 10.00 Trail from Clay Hill Pass to ~~Mount~~ Lake, bears NE and SW.
- 13.20 Spur, projects W. Descend 15 ft. along a NW slope.
- 15.60 Draw, drains SW, ascend about 20 ft. along a S slope.
- 34.00 Ridge, bears NW and SE, descend along a gentle NW slope.

The difference between the measurement of 40.00 chains by two sets of chainmen is 02 links;

By the 1st set 39.99

By the 2nd set 40.01, the mean of which is

- 40.00 On a gentle NW slope, over a cross (X) cut in solid rock, Set an iron post, 3 ft. long and 1 in. in diameter, 30 ins. in a mound of stone, for the $\frac{1}{4}$ section corner. with brass cap marked:



A juniper, 3 ins. in diameter, marked 'BT' bears N 54°00' W, 103 links distant.

A juniper, 6 ins. in diameter, marked $\frac{1}{4}$ S19BT, bears N 5°30' E, 4.98 links distant.

Continue ascent of 15 ft. along a SW slope over patches of surface rock and sand.

- 59.00 Small spur projects W, descend 20 ft. along a NW slope.
- 68.70 Draw, drains NE, ascend 30 ft. along a SE slope.

The difference between the measurement of the north 40.00 chains by two sets of chainmen is 02 links, the position of the middle point,

By the 1st set 40.01

By the 2nd set 39.99, the mean of which is 40.00.

- 80.00 On a SE slope, over a cross (X) cut in exposed surface rock, Set an iron post, 3 ft. long and 2 ins. in diameter 30 ins. in a mound of stone for the corner of sections 13, 18, 19 and 24, with a brass cap marked:

T 39 S

Chains

T39S	
R12E	R13E
S13	S18
S24	S19
1930	

from which

A juniper, 3 ins. in diameter, marked 'BT' bears
N 24°45' E, 264 links distant.

A juniper, 3 ins. in diameter, marked 'BT' bears
N 89°45' W, 119 links distant.

No other suitable trees available for marking.

Land, rolling bench, general V exposure and drainage.

Soil, deep sandy loam in the major portion of the mile.

Timber, juniper.

Undergrowth, scrub oak, mountain rush and arctic plant.

Fair grazing.

North between sections 13 and 18.

Over rolling land, through scattering timber and scant
undergrowth, descend 35 ft. along a NW slope.

20.00 Draw, drains SW, ascend 20 ft. over a S slope.

36.90 Spur, projects V, descend 20 ft. along a NW slope.

The difference between the measurement of 40.00 chains
by two sets of chainmen is .02 links, the position of
the middle point,

By the first set 40.01

By the second set 39.99, the mean of which is

40.00 On a NW slope, over a cross (V) cut into solid sandstone
surface rock,

Set an iron post, 3 ft. long and 1 in. in diameter, 30
ins. in a mound of stone, for the $\frac{1}{4}$ section corner,
with a brass cap marked:

	↑	
S13		S18
1930		

- Chains No other suitable accessories available. Continue⁵⁰¹⁵⁴⁰
descent of 15 ft. over a NW slope.
- 65.00 Draw, drains SW, ascend 15 ft. along a SW slope.
- 76.50 Low sandstone spur, projects W. continue over rolling
land having a general W slope.
- The difference between the measurement of 80 chains by
two sets of chainmen is 02 links, the position of
the middle point:
- By the first set 79.99
- By the second set 80.01, the mean of which is
- 80.00 On a gentle W slope,
Set an iron post, 3 ft. long and 2 ins. in diameter, 5
ins. in the ground to solid rock and in a large mound
of stone, for the corner of sections 7, 12, 13 and
18, with a brass cap marked:
- | | |
|-------|------|
| T39S | |
| R12E | R13E |
| S12 | S 7 |
| ----- | |
| S13 | S18 |
| 1930 | |
- Deposit a sandstone 4 x 4 x 4 ins., marked with a
cross (X) at the base of the manument. No other
suitable accessories available.
- Land, rolling bench, general W exposure and drainage.
- Soil, sandy loam, 2nd rate.
- Timber, none.
- Undergrowth, sagebrush and black brush. Bunch grass.
- Fair grazing.
-
- North, between sections 7 and 12.
- Over broken gravelly bench, through scattering timber
and scant undergrowth.
- 14.40 Road from Blanding Utah to placer camp on the Colorado
River. This road follows closely the route taken by
the Old Mormon Road from Escalante to Bluff, Utah.
The exact location of the latter road could not be

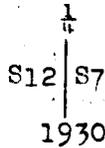
T 39 S

determined because of shifting sand hills and lack of sufficient vegetation to hold the wheel tracks.

The difference between the measurement of 40.00 chains by two sets of chainmen is nothing.

40.00 On a gentle W slope,

Set an iron post, 3 ft. long and 1 in. in diameter, 8 ins. in the ground and in a mound of stone for the $\frac{1}{4}$ section corner, with a brass cap marked:



Deposit a sandstone, 5 x 4 x 3 ins., marked with a cross (X) at the base of the monument. No suitable trees available for marking. Continue over rolling and sandy bench land. Ascend 20 ft. along a SW slope.

52.20 Low sandy spur, projects W, descend 15 ft. along a NW slope.

54.90 Shallow draw, drains SW, thence along a W slope.

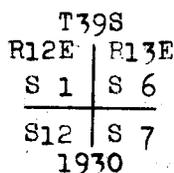
The difference between the measurement of the north 40.00 chains by two sets of chainmen is 02 links, the position of the middle point:

By the first set, 39.99

By the second set 40.01, the mean of which is 40.00.

80.00 On a gentle W slope, over a cross (X) cut in surface rock

Set an iron post, 3 ft. long and 2 ins. in diameter, 30 ins. in a mound of stone, for the corner of sections 1, 6, 7 and 12, with a brass cap marked:



No suitable trees available for marking.

Land, rolling bench, general W exposure and drainage.

Soil, sandy to gravelly loam. 3rd rate.

Timber, scrub juniper.

Chain

Undergrowth, sagebrush, mountain rush and other plants.
Fair grazing.

North between sections 1 and 6.

Over level sandy land, through scattering undergrowth.
Wash, drains SW.

9.50

Low spur, projects SW.

19.50

Shallow draw, drains SW, ascend 30 ft. along a SW slope.

30.30

The difference between the measurement of 40.00 chains
by two sets of chainmen is 02 links, the position of
the middle point:

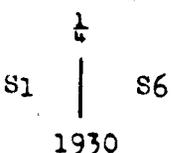
By the first set 39.99

By the second set 40.01, the mean of which is

40.00

On a gentle SW slope,

Set an iron post, 3 ft. long and 1 in. in diameter, 5 in.
in the ground and in a mound of stone for the $\frac{1}{4}$
section corner, with a brass cap marked:



Deposit a sandstone 6 x 6 x 4 ins., marked with a
cross (X) at the base of the monument.

Ascend 35 ft. along a SW slope.

44.00

South edge of low flat spur projecting W, thence across
top of spur.

64.50

North edge of spur, descend 135 ft. along a N slope.

The difference between the measurement of the north
40.00 chains by two sets of chainmen is 02 links,
the position of the middle point;

By the first set 40.01

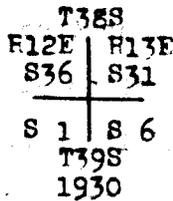
By the second set 39.99, the mean of which is 40.00.

80.00

On a N slope.

Set an iron post, 3 ft. long and 3 ins. in diameter, 6
ins. in the ground to solid rock and in a mound of

stone for the corner of Townships 38 and 39 South,
 Ranges 12 and 13 East, with a brass cap marked:



Deposit a sandstone 5 x 4 x 3 ins., marked with a cross
 (X) at the base of the monument.

Land, rolling hills, general W exposure and drainage.

Soil, sandy to gravelly loam, 3rd rate.

Timber, none.

Undergrowth, oak brush, sagebrush, black brush and amole
 plant.

Fair grazing.

Verification of Azimuth of The Range Line

Hour angle observation on Polaris at the corner of T_s
 38 and 39 S, R_s 12 and 13 E. May 2, 1930. Watch
 having correct mountain standard time, determined by
 comparison with radio signals. Reference point, a
 line point about 60 chains on line to the north. I
 observe the star West of line, making two readings,
 one each with the telescope in direct and reversed
 positions and noting the deflection angle from the
 point above described:

Telescope.	Time	Deflection angle
Direct	4h 37m 14s p.m.	1°19'30"
Reversed	4h 38m 44s "	1°20'00"
Mean	4h 37m 59s "	1°19'45"

Azimuth of Polaris 1°19'45" West

Bearing of line is North.

1930

Township 12 South

Beginning at the corner of T₃₆ and R₁₉ S, R₁₂ and R₁₃

E, heretofore described, thence

North, between sections 31 and 36

Over rolling land with considerable barren sandstone,
through scant undergrowth.

The difference between the measurement of 40 chains by
two sets of chainmen is nothing.

40.00 On a gentle W slope,

Set an iron post, 3 ft. long and 1 in. in diameter, 30
ins. in the ground for the $\frac{1}{4}$ section corner, with a
brass cap marked:

	↑	
S36		S31
1930		

Deposit a sandstone 12 x 10 x 8 ins., marked with
a cross (X) at the base of the monument and erect
a mound of stone, 2 ft. base and 1 $\frac{1}{2}$ ft. high west
of the post. Continue along gently rolling land.

60.00 Low spur projects W.

78.60 Shallow draw, drains SW.

The difference between the measurement of 80 chains by
two sets of chainmen is nothing.

80.00 On a gentle S slope.

Set an iron post, 3 ft. long and 2 ins. in diameter, 4
ins. in the ground to solid rock and in a mound of
stone, for the corner of sections 25, 30, 31 and 36,
with a brass cap marked:

	T388	
R12E		R13E
S25		S30
S36		S31
1930		

Deposit a sandstone, 7 x 7 x 6 ins., marked with a
cross (X) at the base of the monument.

Land, rolling hills, general W exposure and drainage,

Soil, shallow sand on a sandstone bedrock.

T 38 S

Timber, none.

Undergrowth, sagebrush, black brush and scrub oak.

Fair grazing.

North between sections 25 and 30.

Over rolling land with numerous patches of barren sandstone, through scant undergrowth, ascend 25 ft. along a general SW slope.

9.60 Small spur, projects W, descend 55 ft. along a NW slope.

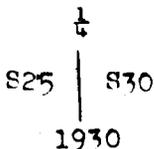
The difference between the measurement of 40 chains by two sets of chainmen is 01 link, the position of the middle point,

By the first set 40.005

By the second set 39.995, the mean of which is

40.00 On a gentle NW slope.

Set an iron post, 3 ft. long and 1 in. indiameter, 30 ins. in the ground for the $\frac{1}{4}$ section corner, with a brass cap marked:



Raise a mound of stone, 2 ft. base and 1 $\frac{1}{2}$ ft. high west of the post.. Descend 5 ft. along a NW slope.

41.20 Shallow draw, drains SW, ascend 50 ft. along a S slope.

61.90 Low spur, projects W, descend 115 ft. along a NW slope.

The difference between the measurement of 80 chains by two sets of chainmen is 01 link, the position of the middle point,

By the first set 80.005

By the second set 79.995, the mean of which is:

80.00 On a NW slope,

Set an iron post, 3 ft. long and 2 ins. in diameter, 30

Chains

in the ground, for the corner of sections 19, 24, 25 and 30, with a brass cap marked:

T 38 S	
R12E	P13E
S24	S19
S25	S30
1930	

Deposit a sandstone " x " x " ins., marked with a cross (X) at the base of the post.

Land, broken and rolling bench land, general W exposure and drainage.

Soil, shallow sandy loam, 2nd rate.

Timber, none.

Undergrowth, sagebrush, oak brush and amole plant.

Fair grazing.

North between sections 19 and 24.

Over broken land, through scant undergrowth, descend 350 ft. over NW slope to the bottom of the gulch.

5.00 Left rim of North Gulch, about 300 ft. high, bears E and W, abrupt descent.

20.40 Bottom of North Gulch, stream of good water, 10 links wide and 2 inches deep flows SW. ascend 350 ft. over ledges.

31.20 Right rim of North Gulch, ledge about 300 ft. high, bears E and W, continue ascent over a S slope..

37.00 Sandstone spur, projects W, descend 20 ft. along a NW slope.

The difference between the measurement of 40 chains by two sets of chainmen is 01 link, the position of the middle point,

By the first set 40.005

By the second set 39.995, the mean of which is

40.00 On a NW slope, over a cross (X) cut in solid rock

Set an iron post, 3 ft. long and 1 in. in diameter 30

T 38 S

Chains

in a mound of stone, for the section corner, with a

brass cap marked:

12.50

824 | 819

1930

Descend 60 ft. along a NW slope over barren sandstone.

47.50 Draw, drains SW, ascend 200 ft. along a SE slope.

57.30 Rocky spur, projects E, descend 15 ft. along a NE slope.

65.30 Draw, drains SE, ascend 120 ft. along a SW slope.

The difference between the measurement of 80 chains by two sets of chainmen is 01 link, the position of the middle point,

By the first set 80.005

By the second set 79.995, the mean of which is

80.00 On a SW slope, over a cross (X) cut in solid surface rock,

Set an iron post, 3 ft. long and 2 ins. in diameter, 30 ins. in a mound of stone, for the corner of sections 13, 18 19 and 24, with a brass cap marked:

T 38 S	
R 12 E	R 13 E
S 13	S 18
S 24	S 19
1930	

Deposit a sandstone, 6 x 5 x 3 ins., marked with a cross (X) at the base of the post.

Land, rolling hills with considerable exposed sandstone general SW exposure and drainage.

Soil, shallow rocky loam, 3rd rate.

Timber, none.

Undergrowth, sagebrush, black brush and mountain rush.

Poor grazing.

Chains

North between sections 13 and 12. Over rocky slopes with barren sandstone, through scant undergrowth, ascend 45 ft. along a SW slope.

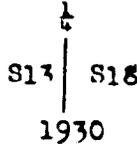
7.20 Spur, projects W, descend 35 ft. along a NW slope.

23.40 Draw, drains SW, ascend 85 ft. along a SW slope.

The difference between the measurement of 40 chains by two sets of chainmen is nothing.

40.00 On a SW slope, over a cross cut in solid surface rock.

Set an iron post, 3 ft. long and 1 in. in diameter, 30 ins. in a mound of stone, for the section corner, with a brass cap marked:



Ascend 40 ft. along a SW slope over barren sandstone.

51.57 Sandstone spur, projects W, descend 160 ft. along a NW slope.

The difference between the measurement of 80 chains by two sets of chainmen is 02 links, the position of the middle point:

By the first set 79.99

By the second set 80.01, the mean of which is

80.00 On a NW slope, over a cross (X) cut in exposed surface rock,

Set an iron post, 3 ft. long and 2 ins. in diameter, 30 ins. in a mound of stone, for the corner of sections 7, 12, 13 and 12, with a brass cap marked:



Land, rough and broken sandstone slopes, general W exposure and drainags.

Soil, shallow sandy loam on sandstone bedrock, 3rd rate.

Timber, none.

T 38 S

Chains

Undergrowth, sagebrush and black brush.

Poor grazing.

North between sections 7 and 12.

Over broken slopes of exposed sandstone, through scant undergrowth, descend 45 ft. along a N slope.

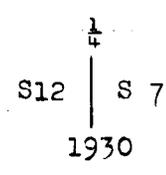
16.10 Draw, drains SW, ascend 110 ft. along a SW slope.

28.10 Ridge, bears NE and SW, descend 35 ft. along a N slope.

The difference between the measurement of 100 chains by two sets of chainmen is nothing.

40.00 On a N slope, over a cross (X) cut in exposed sandstone

Set an iron post, 3 ft. long and 1 in. in diameter, 30 ins. in a mound of stone, for the 1/4 section corner, with brass cap marked:



Continue descent over broken land.

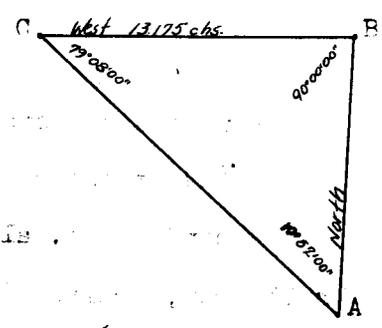
41.20 Mean distance, both sets of chainmen agreeing; set flag A, on line, for future use.

45.60 Left rim of Secret Canyon, rim bearing NE and SW and about 300 ft. high, chaining north impracticable:

Set point B on line to the North and triangulate as follows: From B, survey a base line B-C, West, a mean distance of 13.175 chains:

By the first set of chainmen 13.174
By the second set of chainmen 13.176

All angles measured by three repetitions



At point A 10°52'

At point B 90°00'

At point C 79°08'

T 38 S

61123

Chains

Distance on line to point A 41.20'

Distance by triangulation, A to B, 68.63'

Distance on line to B, 109.83'

By return measurement 29.60 chains to 80.23' point.

55.00 Approximate distance: Bottom of Secret Canyon, a fork of North Gulch, drains SW, canyon about 350 ft. deep.

80.00 Point for the section corner falls on sloping sandstone where the monument can not be set.

Land, rough and broken sandstone slopes, general W exposure and drainage.

Soil, rocky loam, 3rd rate.

Timber, none.

Undergrowth, sagebrush, black brush and amole plant.

Poor grazing.

North between sections 1 and 6.

Beginning at the point for the corner of sections 1, 6, 7 and 12, thence north over rough and broken sandstone slopes, through scant undergrowth.

.23 On a S slope on the right rim of Secret Canyon, at a point determined on the line between sections 7 and 12.

Set an iron post, 3 ft. long and 2 ins. in diameter, 19 ins. in the ground to solid rock and 1' a mound of stone for the witness corner to sections 1, 6, 7 and 12, with a brass cap marked:

T38S	
R12E	R13E
S 1	S 6

S12	S 7
WC	
1930	

Deposit a sandstone, 7 x 6 x 3, marked with a cross (X) at the base of the post.

Descend 10 ft. along a NW slope.

9.50 Small draw, drains SW, ascend 210 ft. along a SW slope.

Chains

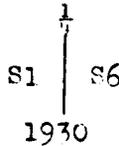
20.60 Sandstone spur, projects W, continue along a general W slope.

29.83 Point B of triangulation, on top of a sandstone spur projecting W.

The difference between the measurement of the south half mile is nothing.

40.00 On a NW slope, over a cross (X) cut in solid surface rock.

Set an iron post, 3 ft. long and 1 in. in diameter, 30 ins. in a mound of stone, for the $\frac{1}{4}$ section corner, with a brass cap marked:



Descend 50 ft. along a NW slope.

55.70 Draw, drains SW, ascend 25 ft. along a SW slope.

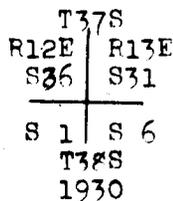
69.00 Spur, projects W, descend 35 ft. along a N slope.

77.00 Small draw, drains SW, ascend along a gentle SW slope.

The difference between the measurement of 80 chains by two sets of chainmen is nothing.

80.00 On a gentle SW slope.

Set an iron post, 3 ft. long and 3 ins. in diameter, 6 ins. in the ground to solid rock and in a mound of stone, for the corner of Townships 37 and 38 South Ranges 12 and 13 East, with a brass cap marked:



Deposit a sandstone, 6 x 6 x 4 ins., marked with a cross (X) at the base of the monument.

Land, rough and broken bench, general SW exposure and drainage.

Soil, sandy to rocky loam, 3rd rate.

Timber. None.

Chains

Undergrowth, sagebrush and oak brush. Bunch grass.

Excellent grazing.

Verification of Azimuth of the Range Line

Observation on Polaris at western elongation, May 10, 1931, at the corner of Townships 37 and 38 South, Ranges 12 and 13 East. Watch correct with mountain standard time by comparison with radio signals. I make two observations on the star, one each with the telescope in direct and reversed positions and noting the deflection angle from a line point to the north. I then follow the motion of the star to make certain that the observation was made at elongation and find no motion in azimuth.

Telescope	Time p.m.	Deflection angle to left of line point.
Direct	4h 47m 16s p.m.	1°21'00"
Reversed	4h 50m 30s "	1°21'00"
Mean	4h 48m 53s "	1°21'00"
Azimuth of Polaris at Elongation		1°21'00"

The bearing of the line is North.

Beginning at the corner of Townships 37 and 38 South, Ranges 12 and 13 East, heretofore described, thence North, between sections 31 and 36.

Over broken land, through scant undergrowth, ascend 155 ft. along a SE slope.

38.60 Ridge, divide between drainage of North Gulch and Moki Canyon, bears NE and SW..

The difference between the measurement of 40 chains by two sets of chainmen is 02 links, the position of the middle point;

By the first set 40.01

T-37 8

Chains

40.00 By the second set 39.99, the mean of which is
On a gentle NW slope, over a cross (X) cut into solid
surface rock.

Set an iron post, 3 ft. long and 1 in. in diameter, 30
ins. in a mound of stone, for the $\frac{1}{4}$ section corner,
with a brass cap marked:



Continue along a gentle NW slope.

41.72 Mean distance, Set flag A for future use.

48.00 Left rim of Moki Canyon, ledge about 300 ft. high bears
NE and SE, chaining to the north impracticable, I
therefore triangulate as follows: Set flag B on line
to the north on the top of a small sandstone spur
in the bottom between two forks of Moki Canyon. From
point A noted above, survey a base line A-B
N 76°36'40" W, a mean distance of 13.369 chains.

By the first set of chainmen 13.373 chains

By the second set of chainmen 13.365 chains

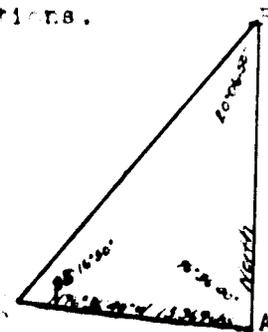
All angles measured by three repetitions.

At point A, 76°36'40"

At point B, 20°06'50"

At point C, 21°16'30"

Vertical angle A to B = 50°15'



Distance on line to point A 41.72

Distance by triangulation A to B 38.61

Distance on line to point B 80.33

By return measurement .33 chains to 80.00 chain
point.

58.00 Approximate distance: Bottom of south fork of Moki
Canyon, drains NW, ascend about 60 ft. over sandstone.

80.00 Point determined by above triangulation.

Chains

On top of a short sandstone spur in the bottom of Moki canyon, over a cross (X) cut into the solid rock.

Set an iron post, 3 ft. long and 2 ins. in diameter, 30 ins. in a mound of stone for the corner of sections 25, 30, 31 and 36, with a brass cap marked:

T37S	
R12E	R13E
S25	S30
S36	S31
1930	

Land, broken bench cut by box canyons, general W exposure and drainage.

Soil, sandy to rocky loam. 2nd rate.

Timber, none.

Undergrowth, sagebrush, black brush and amole plant.

Bunch and sand grasses.

Good grazing.

North, between sections 25 and 30.

Over rough and broken sandstone slopes, descend abruptly into a fork of Moki Canyon.

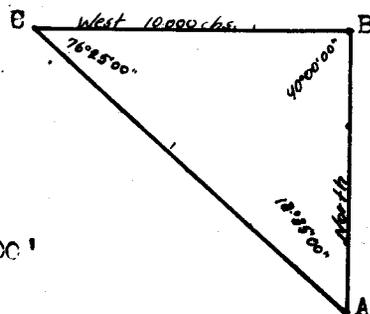
.33 Triangulation point of previous mile. The line to the north crosses a fork of Moki Canyon over which it is impracticable to chain. I triangulate as follows: Designate the corner of sections 25, 30, 31 and 36 as point A, Set flag B on line to the north on the top of a small sandstone spur on the north rim of Moki Canyon. From B survey a base line B-C, West a mean distance of 10,000 chains, both sets of chainmen agreeing on the measurement. All angles determined by three repetitions

Angle at point A 13°35'

Angle at point B 90°00'

Angle at point C 76°25'

Vertical angle A to B, 2°00'



T 37 S

Distance by triangulation A to B 41.39 chains

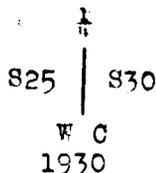
25.00 Approximate distance; bottom of north fork of Moki
Canyon, drains SW, about 300 ft. deep.

40.00 The point for the $\frac{1}{4}$ section corner falls upon steeply
sloping sandstone, where the monument can not be set.

41.39 Triangulation point on top of small spur projecting W.
From this point the base end station of the triangulation on the line between sections 31 and 36, bears S 9°38'20" W.

At the triangulation point, over a cross (X) cut deeply into the bedrock,

Set an iron post, 3 ft. long and 1 in. in diameter, 30 ins. in a large mound of stone, for W.C. $\frac{1}{4}$ section corner, with a brass cap marked:



Descend 10 ft. along a NW slope.

54.62 Left rim of small canyon; ledge about 100 ft. high bears NE and SW, descend 130 ft. along a NW slope.

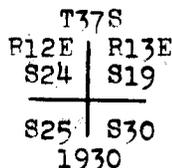
65.00 Bottom of canyon, drains SW, ascend 135 ft. along a SE slope.

70.10 Right rim of canyon, ledge about 100 ft. high bears NE and SW, descend 10 ft. along a general W slope.

The difference in the measurement of the north half of the mile by two sets of chainmen is nothing

80.00 On a gentle W slope.

Set an iron post, 3 ft. long and 2 ins. in diameter, 30 ins. in the ground, for the corner of sections 19, 24, 25 and 30, with a brass cap marked:



Raise a mound of stone, 2 ft. base and 1 $\frac{1}{2}$ ft. high

Chains

W of the post.

Land, broken bench cut by box canyons, general W exposure and drainage.

Soil, sandy to rocky loam, 2nd rate.

Timber, none.

Undergrowth, sagebrush and black brush. Bunch and sand grasses.

Good grazing.

North between sections 19 and 24.

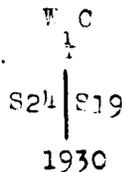
Over rocky and broken land, through scant undergrowth,, ascend 165 ft. along a SW slope.

25.00 Sandstone spur, projects W, descend 100 ft. along a NW slope.

The difference between the measurement of 39.92 chains by two sets of chainmen is nothing.

39.92 On a gentle W slope, over a cross (X) cut deeply into sandstone surface rock.

Set an iron post, 3 ft. long and 1 in. in diameter, 30 ins. in a mound of stone, for the ^{witness} section corner with a brass cap marked:



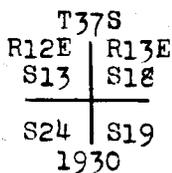
40.00 Corner point falls upon steeply sloping sandstone, where the monument can not be set. Ascend 30 ft. along a S slope.

76.40 Sandstone spur, projects W, descend 45 ft. along a NW slope.

The difference between the measurement of 80 chains by two sets of chainmen is 01 link, the position of the middle point;

Chains

By the first set 79.995
 By the second set 80.005, the mean of which is
 80.00 On a NW slope, over a cross (X) cut in solid surface
 sandstone.
 Set an iron post, 3 ft. long and 2 ins. in diameter. 30
 ins. in a mound of stone, for the corner of sections
 13, 18, 19 and 24, with a brass cap marked:



Land, rough and broken slopes, general W exposure and drainage.

Soil, rocky loam, 3rd rate.

Timber, none.

Undergrowth, black brush and sagebrush. Punch grass.

Fair grazing.

North between sections 13 and 18.

Over broken land, through scant undergrowth, descend 35 ft. along a N slope.

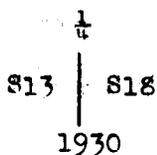
11.60 Draw, drains SW, ascend 175 ft. along a SE slope.

38.70 South rim of mesa, bears NE and SW, thence over top of mesa.

The difference between the measurement of 40 chains by two sets of chainmen is nothing.

40.00 On a gentle W slope.

Set an iron post, 3 ft. long and 1 in. in diameter, 8 ins. in the ground to solid rock and in a mound of stone, for the $\frac{1}{4}$ section corner, with a brass cap marked:



Chains

Deposit a sandstone, 6 x 6 x 6 ins., marked with a cross (X) at the base of the monument. Descend 335 ft. along a NW slope.

66.70 North rim of mesa, bears NE and SW, descend 70 ft. along a NW slope.

The difference between the measurement of 79.76 chains by two sets of chainmen is 02 links, the position of the middle point;

By the first set 79.75

By the second set 79.77, the mean of which is

79.76 On a steep NW slope, over a cross (X) cut in exposed sandstone.

Set an iron post, 3 ft. long and 2 ins. in diameter, 30 ins. in a mound of stone, for the ^{witness} corner of sections 7, 12, 13 and 18, with a brass cap marked:

WC	
T37S	
R12E	R13E
S12	S 7

S13	S18
1930	

80.00 The point for the corner of sections 7, 12, 13 and 18 falls upon steeply sloping sandstone, where the corner can not be monumented.

Land, rocky bench between deep canyons, general W exposure and drainage.

Soil, shallow sandy loam, 3rd rate.

Timber, none.

Undergrowth, black brush and mountain rush.

Fair grazing.

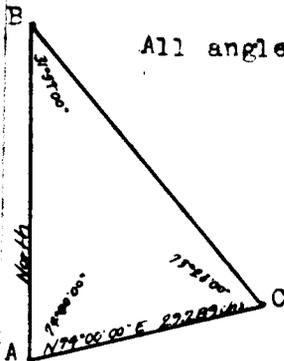
North between sections 7 and 12.

Beginning at the point for the corner of sections 7, 12 13 and 18, thence North over rough and broken land, through scant undergrowth, descend 75 ft. along a N slope.

Chains.

7.00 Left rim of Knowles Canyon basin, ledge about 300 ft. high bears E and W. Chaining impracticable and I triangulate as follows: Return to a point 14.80 chains south of the corner of sections 7, 12, 13 and 18 to obtain a suitable base, designating this point as A, set point B on line to the north on a small bench in the canyon bottom. From A survey a base line A-C N 74°00' E, a mean distance of 29.289 chains:

- By the first set of chainmen 29.286
- By the second set of chainmen 29.292



All angles determined by three repetitions.

- Angle at point A 74°00'00"
- Angle at point B 31°57'00"
- Angle at point C 73°23'00"
- Vertical angle A to B, -14°00'

Distance by triangulation A to B 53.04 chains
 Southing, point A from the section corner 14.80 chains
 Distance on line to point B, 38.24 chains.

- 11.00 Approximate distance; draw, drains W.
- 13.00 Approximate distance; Point of spur, projects W.
- 15.00 Approximate distance; Bottom of Knowles Canyon, drains W.
- 30.00 Approximate distance; south rim of a small bench, bears NW and SE.
- 38.24 Point B of triangulation, thence along bench, ascend about 5 ft. to $\frac{1}{4}$ section corner.
- 40.00 Mean distance, both sets of chainmen agreeing on the distance north of the triangulation point.
 On a gentle SW slope, over a cross (X) cut in solid surface rock,
 Set an iron post, 3 ft. long and 1 in. in diameter, 30 ins. in a mound of stone, for the $\frac{1}{4}$ section corner, with a brass cap marked:

Chains

$\frac{1}{4}$
 S12 | S 7
 1930

Continue along a W slope.

52.00 N rim of bench, bears NE and SW, descend 75 ft. along a N slope.

61.50 Draw, drains SW, ascend 320 ft. along a SE slope.

68.70 Right rim of Knowles Canyon, ledge about 300 ft. high bears NE and SW.

80.00 The point for the corner of sections 1, 6, 7 and 12 falls upon steeply sloping sandstone, where the monument may not be set.

The difference between the measurement of the north 40.52 chains by two sets of chainmen is 06 links the position of the middle point;

By the first set 40.49

By the second set 40.55, the mean being 40.52

40.52 On a SE slope.

Set an iron post, 3 ft. long and 2 ins. in diameter, 24 ins. in the ground to solid rock and in a mound of stone, for the witness corner of sections 1, 6, 7 and 12, with a brass cap marked:

T37S
 R12E | R13E
 S 1 | S 6
 ————
 S12 | S 7
 1930
 WC

Deposit a sandstone, 5 x 5 x 4 ins., marked with a cross (X) at the base of the monument.

Land, rough and broken slopes bordering Knowles Canyon, slope and drainage, into canyon.

Soil, rocky loam, 3rd rate.

Timber, none.

Undergrowth, sagebrush, blackbrush and mountain rush.

Fair grazing.

Chains							
	<p>North, between sections 1 and 6, from the corner point. Over broken land, through scant undergrowth, ascend 150 ft. over a S slope.</p>						
.52	<p>The witness section corner.</p>						
14.90	<p>Sandstone butte about 40 ft. high on line, descend 75 ft. over a N slope.</p>						
39.60	<p>Draw, drains SW. SW 1/4 0821 The difference between the measurement of 40.00 chains by two sets of chainmen is 01 link, the position of the middle point; By the first set 39.995 By the second set 40.005, the mean of which is</p>						
40.00	<p>On a SW slope Set an iron post, 3 ft. long and 1 in. in diameter, 12 ins. in the ground to solid rock and in a mound of stone, for the $\frac{1}{4}$ section corner, with a brass cap marked: marked:</p>						
	<div style="text-align: center;"> $\frac{1}{4}$ <table style="margin: auto; border-collapse: collapse;"> <tr> <td style="padding: 0 10px;">S1</td> <td style="text-align: center; border-left: 1px solid black; border-right: 1px solid black; padding: 0 5px;"> </td> <td style="padding: 0 10px;">S6</td> </tr> <tr> <td colspan="3" style="text-align: center; padding-top: 5px;">1930</td> </tr> </table> </div>	S1		S6	1930		
S1		S6					
1930							
	<p>Deposit a sandstone, 5 x 5 x 5 ins., marked with a cross (X) at the base of the monument Descend 15 ft. over a N slope.</p>						
60.70	<p>Draw, drains SW, ascend 25 ft. along a SW slope.</p>						
71.60	<p>Low ridge, bears NE and SW, descend 120 ft. over a NE slope.</p>						
79.20	<p>Small draw, drains NW, ascend 5 ft.</p>						
80.00	<p>The point for the township corner falls upon steeply sloping sandstone where the monument can not be set. The difference between the measurement of 80.85 chains by two sets of chainmen is nothing.</p>						
80.85	<p>On a gentle W slope, in barren sandstone; over a cross (X) cut in solid rock, Set an iron post, 3 ft. long and 2 ins. in diameter, 30</p>						

Chains

witness
ins. in a mound of stone for the/corner of Townships
36 and 37 South, Ranges 12 and 13 East, with a brass
cap marked:

T36S	
R12E	R13E
S36	S31

S1	S6
WC	
T37S	
1930	

Land, rolling bench, cut by box canyons, general **SW**
exposure and drainage.

Soil, shallow sandy loam on sandstone bedrock, 3rd rate.

Timber, none.

Undergrowth, sagebrush and mountain rush.

Poor grazing.

Township 36 South

Beginning at the point for the corner of Townships **36**
and 37 South, Ranges 12 and 13 East, heretofore
described, thence

North, between sections 31 and 36.

Over broken land, through scant undergrowth, along a
general " slope.

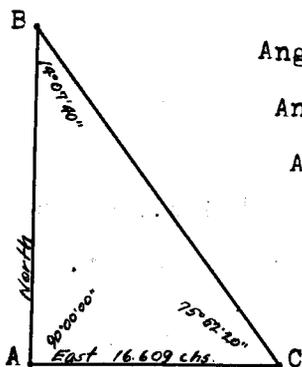
.85 The witness township corner.

8.00 West rim of Cedar Canyon, ledge about 300 ft. high bears
NW and SE, chaining impracticable. I triangulate as
follows: Set point B on line to the north and
return to a point 8.38 chains South of the township
corner, and from this point, designated as A
survey a base line A-C, East a mean distance of
16.609 chains:

By the first set of chainmen 16.608

By the second set of chainmen 16.610

All angles determined by three repetitions.



Angle at point A, 90°00'00"

Angle at point B, 14°07'40"

Angle at point C, 75°52'20"

Vertical Angle A to B, -7°15'

Distance on line to point A, -8.38

Distance by triangulation 65.99

Distance on line to point B 57.61

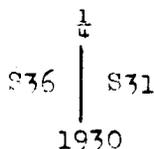
12.00 Approximate distance: Botton of Cedar Canyon, drains NW.

13.60 Low spur, projects W.

Distance by return measurement from the 57.61 chains point, 17.61 chains, both sets of chainmen agreeing,

40.00 On a NW slope.

Set an iron post, 3 ft. long and 1 in. in diameter, 30 ins. in the ground, for the $\frac{1}{4}$ section corner, with a brass cap marked:



Deposit a sandstone, 5 x 5 x 3 ins., marked with a cross (X) at the base of the monument.

Ascend 95 ft. along a SW slope.

57.80 Draw, drains SW, ascend along a S slope.

57.61 Point B of the triangulation, thence North over broken land.

80.00 Mean distance, both sets of chainmen agreeing upon the distance north of the triangulation point.

Set an iron post, 3 ft. long and 2 ins. in diameter, 3 ins. in the ground, over a cross (X) cut into solid bedrock, and in a mound of stone, for the $\frac{1}{4}$ section corner, with a brass cap marked:

Chains

T368	
R12E	R13E
S25	S70
S36	S31
1930	

at. Monahie

with a brass

Deposit a sandstone, 6 x 5 x 4 in., marked with a cross (X) at the base of the monument.

Land, rough and broken slopes of Cedar Canyon, general exposure and drainage.

Soil, shallow sandy loam, 3rd. rate.

Timber, none.

Undergrowth, sagebrush and mountain rush. Patches of grass along the bases of the ledges.

Fair grazing.

North, between sections 25 and 30.

Over mountainous land, through scant undergrowth, ascend a steep SE slope over ledges.

13.92 Top of high ledges (about 200 ft. high) 300 ft. above the canyon bottom and bearing NW and SE, forming the north or right rim of Cedar Canyon, thence along a rugged SE slope over barren sandstone.

40.00 The point for the $\frac{1}{4}$ section corner falls upon steeply sloping sandstone. At the corner point mark a cross (X) deeply into the rock.

The difference between the measurement of 42.33 chains by two sets of chainmen is 01 link, the position of the middle point:

By the first set 42.335

By the second set 42.325, the mean of which is

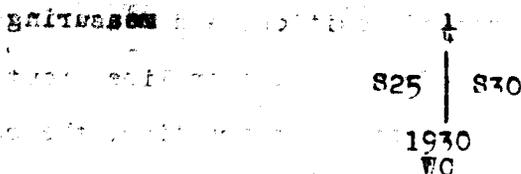
42.33 On the top of a high ledge overlooking the Colorado River canyon, and over a cross (X) cut deeply into the bedrock.

Set an iron post, 3 ft. long and 1 in. in diameter, 30 in. in a mound of stone, for the $\frac{1}{4}$ section corner

T 36 8

Chains

with a brass cap marked:



Descend 1070 ft. along a NW slope

75.00 Draw, drains W, ascend 95 ft. along a SW slope.

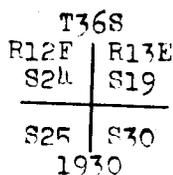
The difference between the measurement of 80.00 chains by two sets of chainmen is 06 links, the position of the middle point,

By the first set 79.97

By the second set 80.03, the mean of which is

80.00 On the top of a steeply sloping and badly broken spur.

Set an iron post, 3 ft. long and 2 ins. in diameter, 10 ins. in the ground to solid rock and in a mound of stone stone, for the corner of sections 19, 24, 25 and 30 with a brass cap marked:



Deposit a sandstone, 6 x 6 x 6 ins., marked with a cross (X) at the base of the monument.

Land, rough and broken sandstone slopes, general W exposure and drainage.

Soil, shallow sandy loam, 3rd rate.

Timber, none.

Undergrowth, sagebrush and mountain rush. Small patches of grass in pockets in the sandstone.

Poor grazing.

May 17, 1930. In order to verify the azimuth of the range line, I observe Polaris at eastern elongation

Chains

making four settings, two each with the telescopes in direct and reversed positions and measuring the deflection angle from a point on line about three miles north. Station of observation, the corner of sections 25, 30, 31 and 36, T₃₆S, R_s. 12 and 13 E.

Mean time of observation (Standard)	Deflection angle, to right of line point.
--	--

4h 21m 15s a.m.	1°21'00"
-----------------	----------

Azimuth of Polaris at elongation 1°21'00". The observation indicates that the bearing of the range line is North.

North, between sections 19 and 24

Over rough and broken land, through scant undergrowth, descend 200 ft. along a rocky NW slope.

18.40 Base of abrupt descent, bears NE and SW, thence along bottom land of the Colorado River, through dense undergrowth and few scattering willows.

23.63 Left bank of the Colorado River, bears NE and SW. No corner established at this point, as the line was to be terminated at the nearest regular quarter section or section corner.

General Description

The land on either side of line and south of North Gulch is, in general, a rolling bench with a few minor draws draining to the west. These draws are very shallow in the east and gradually increase in depth. A narrow section along the edge of Castle Wash drains into the system. The soil is largely a loose sandy loam, varying in depth from exposed bedrock to a layer from eight to ten feet deep. There is, in most cases

and with the exception of the immediate vicinity of the main cattle trails, a very good stand of grass sagebrush, black brush and other minor forage plants. This furnished excellent grazing for stock. Little water was found and that only in tanks in the sandstone and several springs of good water at Hermit Lake. Grazing is now limited to a few months in the winter and the stock do not reach far from the main trails. The area is not overgrazed as a whole, although isolated sections that are easily reached show the effects of years of intensive use.

Hermit Lake, now dry, located in the western part of T 39 S, R 12 E, is now the homestead of Franklin J. Adams. In the old lake bed are several springs of good water. This homestead is used as headquarters for all of the stockmen using this area.

The land north of North Gulch and between the breaks of Red Canyon to the east and the Colorado River to the west, has the appearance of a large mesa top cut through by several large box canyons draining westerly. North Gulch is the largest of these and heads well back against the ledge forming the rim of Red Canyon. The others are somewhat smaller and not as long. The sides of these canyons are formed by high vertical ledges which make impassable barriers to stock. In places the canyon bottoms may be reached by means of sand and rock slides, but these are few in number and do not give good access to the canyon. The cattlemen have constructed trails into and across some of the canyons to enable the stock to reach the water holes.

Numerous tanks of water were noted along the bottoms of the draws and in North Gulch, Cedar and Knowles Canyons were small seeps. In North Gulch is a small intermittent stream of good water. In general the area is dry, and without development of the

General Description

water, may be used for winter grazing only. It is now used for winter pasture of horses. The top, between the canyons is covered with a good stand of grass, sagebrush and black brush, making excellent feed for stock. The entire mesa top is known as Mancos Mesa.

Over most of the land on both sides of North Gulch is a widely scattered growth of stunted juniper. This timber has no commercial value.

No indications of any commercial deposit of mineral were noted.

The old Mormon Road, from Escalante to Bluff, Utah crosses the survey line between sections 7 and 12 in Township 39 South. It bears about east to Clay Will Pass and southwest, east the north end of Hermit Lake. From this point it follows along the top of Grey Mesa to the Colorado River, crossing that river just below the mouth of the Escalante River.

CERTIFICATE OF SURVEYOR

I, Robert C. Yundt, Surveyor, HEREBY CERTIFY upon honor that, pursuant of special instructions bearing date of the 10th day of September, 1928 received from the district cadastral engineer for Utah, with assignment instructions dated March 18, 1930, I have surveyed the Range Line between Ranges 12 and 13 East in Townships 39, 38, 37 and 36 South of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes. Salt Lake City, Utah Feb. 10, 1932. Robert C. Yundt Surveyor

CERTIFICATE OF APPROVAL

OFFICE OF SUPERVISOR OF SURVEYS,

Denver, Colorado, February 8, 1932.

The foregoing field notes of the survey of the range line between Ranges 12 and 13 East in Townships 39, 38, 37 and 36 South, Utah executed by Robert C. Yundt, Surveyor under special instructions dated September 10, 1928, and assignment instructions dated March 18, 1930, having been critically examined, and the necessary corrections made prior to their certification by the engineer, the said field notes, and the survey therein described, are hereby approved.

[Signature]
Supervisor of Surveys.

CERTIFICATE OF TRANSCRIPT

~~I CERTIFY that the foregoing transcript of the field notes of the above described surveys in _____, is a true copy of the original field notes on file in the public survey office.~~

~~Supervisor of Surveys.~~

RECEIVED

MAY 27 1939

U.S. Department of Interior
Bureau of Land Management

4-079
(April 1938)

Book "C"

FIELD NOTES

OF THE SURVEY OF THE

RANGE LINE, BETWEEN RANGES 14 AND 15 EAST,

THROUGH TOWNSHIPS 36, 37, 38, AND 39 SOUTH

Of the Salt Lake Meridian,

In the State of Utah

EXECUTED BY

Robert C. Yundt, Surveyor

Under special instructions dated September 10, 1928, which provided for the surveys included under Group No. 217, bearing the approval of the Commissioner of the General Land Office under date of September 24, 1928 and assignment instructions dated March 18th, 1930

Survey commenced April 7th, 1930

Survey completed October 18th, 1930

INDEX DIAGRAM.

Township ----- Range -----

	T36S		T37S		T38S		T39S
1	6	1	6	1	6	1	6
12	7	12	7	12	7	12	7
13	18	13	18	13	18	13	18
24	19	24	19	24	19	24	19
25	30	25	30	25	30	25	30
36	31	36	31	36	31	36	31

R14E R15E R14E R15E R14E R15E R14E R15E

This survey was commenced April 7, 1930, and executed with Buff. and Buff light mountain transit No. 9797. The instrument is equipped with a Smith solar attachment and has a full vertical circle. The horizontal limb is provided with two double verniers placed opposite to each other and reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs and vertical circle. The instrument was in good adjustment at the time of this survey, and was approved for use on the survey, by the district cadastral engineer, for Utah, in assignment instructions dated March 18, 1930. The solar attachment was not used, and all lines of the survey were deflected from true meridians determined by observations made upon Polaris as herein shown, and carried forward by transit line, using double fore and back sights.

The lines of the survey were double chained, and the mean of the two measurements appears in this record. The measurements were made on the slope, the vertical angle determined with clinometers, and the slope measurements properly reduced to true horizontal distances. All measurements were made with a Lalle steel ribbon tape, 5 chains in length, graduated every link for the first 100 links and thereafter at intervals of 10 links. The tape was tested by comparison with a standard tape and found correct.

The data given in the special instructions for the survey of this group, give the position of the cor. of Ts. 39 and 40 S., Rs. 14 and 15 E., as being latitude $37^{\circ} 21' 30''$ N., and longitude $110^{\circ} 18' 00''$ W.

April 7, 1930: Stationed at the above cor., at 4h 11.4m p.m. 105th Meridian Standard Time, I make an hour angle observation upon Polaris west of the meridian, making four observations, two each with the telescope in direct and reversed positions, reading the horizontal deflection angle from a flag about 20 chains to the N., in a westerly direction to the star.

Local mean time of observation	5h 50.2m p.m.
Mean horizontal deflection angle, flag pole to star	$1^{\circ} 22' 30''$ W.
Azimuth of Polaris at time of observation	$1^{\circ} 19' 30''$ W.
True bearing to flag N.	$0^{\circ} 03'$ E.

The cor. of Ts. 39 and 40 S., Rs. 14 and 15 E., is an iron post, 3 ins. diam., set, marked, and witnessed as described in the official record, thence, from the above cor., I deflect an angle of $0^{\circ} 03'$ to the W. to the true meridian, and proceed:

North, along range line, T. 39 S., bet. Rs. 14 and 15 E., bet. secs. 31 and 36.

Descend gradually over rough and broken land, through medium dense timber and undergrowth.

35.00 Draw, 20 ft. below cor., drains SW.; ascend gradually.

No difference in the measurement of 40.00 chs. by two sets of chainmen.

40.00 On sandstone spur, 25 ft. above draw, slopes SW., mark a cross on the surface rock, over which.

Set an iron post, 3 ft. long, 1 in. diam., in a large mound of stone to top, for a sec. cor., with brass cap marked

336 | 331

1930

RANGE LINE, T. 39 S., BET. Rs. 14 AND 15 EAST.

Chains

No suitable bearing trees available.

Continue gradual ascent over broken land.

53.70 Low spur, slopes SW.

62.90 Draw, course SW.

65.50 Spur, slopes E.

70.00 Same draw as at the 62.90 chs. point, drains SE.

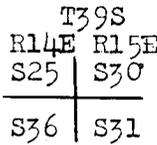
72.40 Spur, slopes W.

75.60 Same draw as at the 70.00 chs. point, drains SW.

No difference in the measurement of 80.00 chs. by two sets of chainmen.

80.00 On broken land, 40 ft. above the sec. cor.

Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground to solid rock and in a large mound of stone to top, for cor. of secs. 25, 30, 31, and 36, with brass cap marked



1930

deposit a

sandstone, 6 x 6 x 5 ins., at base of post, marked X.

No bearing trees available.

Land, rough and broken; general SW. drainage.
 Soil, loose sand and sandstone outcroppings; 3rd rate.
 Undergrowth, mountain rush, black, and rabbit brush.
 Timber, scrub juniper and pinon.
 Fair grazing land.

North, bet. secs. 25 and 30

Ascend gradually over rough and broken land, through medium dense undergrowth.

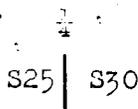
5.90 Trail, bears NE. to Collin's Cave and SW. to Clay Hill Crossing.

17.10 Draw, course SE.

No difference in the measurement of 40.00 chs. by two sets of chainmen.

40.00 On broken land, 90 ft. above sec. cor.

Set an iron post, 3-ft. long, 1 in. diam., 12 ins. in the ground to solid rock and in a large mound of stone to top, for sec. cor., with brass cap marked



1930

deposit a

RANGE LINE T. 39 S. BET. Ra. R1 AND 15 E.

Chains

sandstone, 5 x 4 x 3 ins., at base of post, marked X.

Continue ascent over broken land.

42.80 Draw, drains SE.

68.10 Draw, drains SE.

71.30 Spur, slopes E.

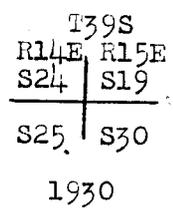
76.00 Draw, drains SE.

78.90 Spur, 100 ft. above the 1/4 sec. cor., slopes SE.; descend gradually.

No difference in the measurement of 80.00 chs. by two sets of chainmen.

80.00 On broken land, 10 ft. below spur.

Set an iron post, 3 ft. long, 2 ins. diam., 23 ins. in the ground to solid rock and in a large mound of stone to top, for cor. of secs. 19, 24, 25, and 30, with brass cap marked



deposit a sandstone, 6 x 5 x 4 ins., at base of post, marked X.

Land, rough and broken; general SE. exposure and drainage. Soil, loose sandy loam with sandstone outcroppings; 3rd rate.

Undergrowth, black brush and mountain rush.

No timber.

Fair grazing land.

North, bet. secs. 19 and 24.

Ascend gradually over rough and broken land, through medium dense undergrowth.

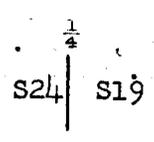
5.60 Draw, course SE.

34.40 Commence abrupt ascent over SE. slope.

No difference in the measurement of 40.00 chs. by two sets of chainmen.

40.00 On abrupt SE. slope, 110 ft. above sec. cor.

Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to solid rock and in a large mound of stone to top, for 1/4 sec. cor., with brass cap marked



1930

deposit a

RANGE LINE, T. 39 S., BET. Rs. 14 and 15 E.

Chains

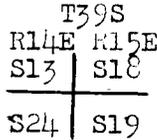
sandstone, 4 x 4 x 3 ins., at base of post, marked X.

Thence ascend abruptly over a series of broken sandstone ledges, facing SE.

No difference in the measurement of 80.00 chs. by two sets of chainmen.

80.00 On steep SE. slope, 670 ft. above the $\frac{1}{4}$ sec. cor.

Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for cor. of secs. 13, 18, 19, and 24, with brass cap marked



1930

raise a

mound of stone, 3 ft. base, 2 ft. high, W. of cor.

Land, rough and broken.

Soil, loose sand with sandstone outcroppings; 3rd rate.

Undergrowth, black brush and mountain rush.

No timber.

Fair grazing land.

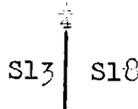
North, bet. secs. 13 and 18.

Ascend abruptly over nearly vertical sandstone ledges, through medium dense undergrowth.

No difference in the measurement of 40.00 chs. by two sets of chainmen.

40.00 On broken SE. slope, 270 ft. above the sec. cor.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked



1930

raise a

mound of stone, 3 ft. base, 2 ft. high, W. of cor.

Continue abrupt ascent over ledges.

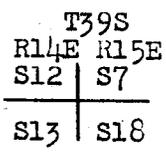
No difference in the measurement of 80.00 chs. by two sets of chainmen.

80.00 On SE. slope, 600 ft. above the $\frac{1}{4}$ sec. cor.

Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for cor. of secs. 7, 12, 13, and 18, with brass cap marked

RANGE LINE, T. 39 S., BET. Rs. 14 AND 15 E.

Chains



1930

raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

Land, rough and broken.
Soil, loose sand with sandstone outcroppings; 3rd rate.
Undergrowth, black brush, and mountain rush.
No timber.
Fair grazing land.

North, bet. secs. 7 and 12.

Ascend abruptly over rough and broken land, through medium dense undergrowth.

10.70 Sandstone rim, 240 ft. above sec. cor., bears NE. and SW.

12.40 Point of sandstone rim, projects NE.; descend gradually over mesa top through scattered timber.

38.20 Draw, 355 ft. below sandstone rim, drains NE.; ascend gradually.

The difference in the measurement of 40.00 chs. by two sets of chainmen is 4 lks.; position of middle point

By 1st set, 40.02 chs.

By 2nd set, 39.98 chs., the mean of which is

40.00 No iron post being available, on sandstone surface rock, 20 ft. above draw, mark a cross, over which.

Set a sandstone, 20 x 12 x 8 ins., in a large mound of stone to top, marked $\frac{1}{4}$ on W. face, for $\frac{1}{4}$ sec. cor., from which

A pinon, 8 ins. diam., bears S. 27°15' E., 37 lks. dist., marked $\frac{1}{4}$ S7 BT.

A pinon, 6 ins. diam., bears N. 30°45' W., 149 lks. dist., marked $\frac{1}{4}$ S12 BT.

42.90 Top of sandstone ledge, 300 ft. high, faces NE., and bears NW. and SE.; descend abruptly over broken sandstone ledges and rims.

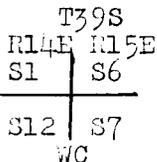
80.00 True point for the cor. of secs. 1, 6, 7, and 12, falls on sloping sandstone rim, where it is impracticable to set a cor.

No difference in the measurement of 82.24 chs. by two sets of chainmen

82.24 At base of ledges, 400 ft. below top, bears W. and SE.

Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground to solid rock and in a large mound of stone to top, for witness cor. of secs. 1, 6, 7, and 12, with brass cap marked

Chains



1930

deposit a sandstone, 5 x 5 x 4 ins., at base of post, marked X.

Land, rough and broken.

Soil, shallow sand and sandstone outcroppings; 3rd rate.

Undergrowth, black brush and mountain rush.

Timber, juniper and pinon.

Pair grazing land.

From the true point for the cor. of secs. 1, 6, 7, and 12.

North, bet. secs. 1 and 6.

Descend gradually over rough land; through medium dense undergrowth.

1.24 The witness cor. of secs. 1, 6, 7, and 12, at base of ledges, bears W. and SE.

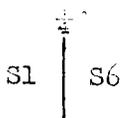
5.60 Draw, course SE. from the W.; an old Mormon Road in bottom of draw, bears SE. to Bluff, Utah, and W. to Escalante, Utah; ascend abruptly over steep nearly inaccessible ledges.

37.90 Top of sandstone ledges; 720 ft. above the witness cor., bears NW. and SE.; ascend.

No difference in the measurement of 40.00 chs. by two sets of chainmen.

40.00 On sandstone surface rock, mark a cross, over which.

Set an iron post, 3 ft. long, 1 in. diam., in a large mound of stone to top, for a sec. cor., with brass cap marked



1930

From this cor., the old Mormon Road, in Clay Hill Pass, bears S. 53° W. At head of Castle Wash, draining westerly.

Continue ascent over broken land.

48.00 Draw, drains SW.

57.30 Top of ledge, 50 ft. high, bears NE. and SW.

59.00 Spur, slopes SW.

77.30 Sandstone spur, slopes SW.

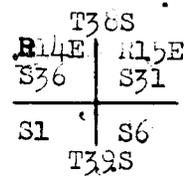
No difference in the measurement of 80.00 chs. by two sets of chainmen.

RANGE LINE, T. 39 S., BET. Rs. 14 AND 15 E.

Chains

80.00 On broken land, 135 ft. above the sec. cor.

Set an iron post, 3 ft. long, 3 ins. diam., 5 ins. in the ground to solid rock and in a large mound of stone to top, for the cor. of Ts. 38 and 39 S., Rs. 14 and 15 E., with brass cap marked



1930

from which

A juniper, 3 ins. diam., bears N. 22° E., 22 lks. dist., marked BT.

A pinon, 8 ins. diam., bears S. 40° E., 42 lks. dist., marked T39S R15E S6 BT.

A pinon, 3 ins. diam., bears S. 30° W., 73 lks. dist., marked BT.

A pinon, 3 ins. diam., bears N. 45° W., 48 lks. dist., marked BT.

Land, rough and broken, with a general SW. drainage. Soil, loose sand with sandstone outcroppings; 3rd rate. Undergrowth, sage and black brush, mountain rush, and amole plant. Timber, juniper and pinon. Fair grazing land.

RANGE LINE, T. 38 S., BET. Rs. 14 AND 15 E.

April 16, 1930; at the cor. of Ts. 38 and 39 S., Rs. 14 and 15 E., in approximate latitude 37° 26' N., longitude 110° 18' W., at 5h 54.4m p.m. local mean time., or at 6h 15.6m p.m. by my watch which carries correct 105th meridian standard time as determined by radio signals, I observe Polaris at western elongation, making two observations, two each with the telescope in direct and reversed positions, reading the horizontal deflection angle from a flag pole about 1 mile north, in a westerly direction to the star.

Mean horizontal deflection angle, flag to star 1° 21' W. Azimuth of Polaris at western elongation, 1° 21' W. True bearing to flag, North.

Thence, from the above cor., with the transit sighted on the reference point, which bears North:

North, bet. secs. 31 and 36, on range line, T. 38 S., bet. Rs. 14 and 15 E.

Descend gradually over W. slope of rough and broken land, through scattered timber and undergrowth.

16.60 Top of left rim of canyon, 65 ft. high, bears NE. and SW.

27.40 Bottom of canyon, 420 ft. below cor., drains W.; ascend.

RANGE LINE, T. 38 S., BET. R. 14 AND 15 E.

Chains

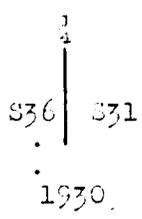
33.70 Spur, 60 ft. above canyon, projects W.; descend.

35.40 Sandstone rim, 100 ft. high, bears NE. and SW.; descend over broken ledges.

No difference in the measurement of 40.00 chs. by two sets of chainmen.

40.00 On NW. slope, 290 ft. below spur.

Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to solid rock and in a large mound of stone to top, for $\frac{1}{4}$ sec. cor., with brass cap marked



from which

A juniper, 6 ins. diam., bears N. 34° E., 42 lks. dist., marked S31 BT.

A pinon, 8 ins. diam., bears N. 54° W., 17 lks. dist., marked S36 BT.

42.00 Base of slope, bears NE. and SW.

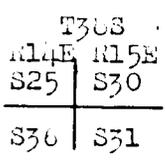
46.10 Bottom of Stear Gulch, drains SW.; ascend SW. slope of nearly vertical sandstone ledges.

65.50 Top of ledges, 270 ft. above the $\frac{1}{4}$ sec. cor., bears NE. and SW.; continue ascent over SW. slope.

No difference in the measurement of 80.00 chs. by two sets of chainmen.

80.00 On top of spur, 210 ft. above top of ledges, slopes SW.

Set an iron post, 4 ft. long, 2 ins. diam., 18 ins. in the ground to solid rock and in a large mound of stone to top, for cor. of secs. 25, 30, 31, and 36, with brass cap marked



1930

from which

A juniper, 3 ins. diam., bears N. 49° E., 100 lks. dist., marked BT.

A pinon, 3 ins. diam., bears S. 59°45' E., 106 lks. dist., marked BT.

A juniper, 3 ins. diam., bears S. 66°30' W., 105 lks. dist., marked BT.

A juniper, 3 ins. diam., bears N. 21°30' W., 45 lks. dist., marked BT.

RANGE LINE: T. 38 S., BET. Rs. 14 AND 15 E.

Chains

Land, rough and broken,
Soil, loose sand with sandstone outcroppings; 3rd rate.
Undergrowth, sage and black brush, mountain rush, and
amole plant.
Timber, juniper and pinon.
Fair grazing land.

North, bet. secs. 25 and 30.

Ascend gradually over rough and broken land, through
scattered timber and undergrowth.

8.60 Spur, slopes W.; 30 ft. above cor.; descend.

32.10 Small canyon, 130 ft. below spur, drains SW.; ascend.

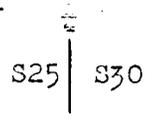
The difference in the measurement of 40.00 chs. by two
sets of chainmen is 5 lks.; position of middle point

By 1st set 40.025 chs.

By 2nd set 39.975 chs., the mean of which is

40.00 On sandstone surface rock, 80 ft. above canyon, mark a
cross over which.

Set an iron post, 3 ft. long, 1 in. diam., in a large
mound of stone to top, for 4 sec. cor., with brass cap
marked



1930

No suitable bearing trees available.

75.80 Sandstone rim, bears NE. and SW.

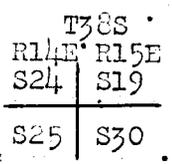
79.90 Ridge, 330 ft. above the 4 sec. cor., bears NE. and SW.

The difference in the measurement of 80.00 chs. by two
sets of chainmen is 4 lks.; position of middle point

By 1st set, 80.02 chs.

By 2nd set, 79.98 chs., the mean of which is

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the
ground to solid rock and in a large mound of stone, for
the cor. of secs. 19, 24, 25, and 30, with brass cap
marked



1930

from which

A pinon, 6 ins. diam.; bears N. 26°45' E., 105 lks.
dist., marked T38S R15E S19 BT.

A pinon, 8 ins. diam.; bears S. 41° E., 117 lks.
dist., marked T38S R15E S30 BT.

RANGE LINE, T. 38 S., BET. Rrs. 14 AND 15 E.

Chains

and 100

A pinon, 3 ins. diam., bears S. $28^{\circ}15'$ W., 103 lks. dist., marked BT.

A pinon, 7 ins. diam., bears N. $10^{\circ}45'$ W., 173 lks. dist., marked T38S R14E S24 BT.

Land, rough and broken, with a general southwesterly exposure and drainage.
Soil, loose sand with sandstone outcroppings; 3rd rate.
Undergrowth, black brush, amole plant, and mountain rush.
Timber, juniper and pinon.
Poor grazing land.

North, bet. secs. 19 and 24.

Descend abruptly over rough and broken land, through scattered timber and undergrowth.

35.90 Draw, 345 ft. below cor.; drains SW.; ascend gradually.

The difference in the measurement of 40.00 chs. by two sets of chainmen is 2 lks.; position of middle point

By 1st set, 40.01 chs.

By 2nd set, 39.99 chs., the mean of which is

40.00 On broken land; 20 ft. above draw.

Set an iron post, 3 ft. long, 1 in. diam., 3 ins. in the ground to solid rock and in a large mound of stone, for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$
S24 | S19

1930

from which

A pinon, 3 ins. diam., bears N. 55° E., 85 lks. dist.; marked BT.

A juniper, 8 ins. diam., bears S. 83° W., 138 lks. dist., marked $\frac{1}{4}$ S24 BT.

Continue ascent over S. slope.

41.70 Sandstone ledge, 25 ft. high, bears E. and W.

45.80 Spur, 110 ft. above the $\frac{1}{4}$ sec. cor., projects W.; descend abrupt NW. slope.

56.50 Sandstone ledge, 35 ft. high, bears E. and W.

75.90 Bottom of North Gulch, 335 ft. below spur, course NW.; ascend.

The difference in the measurement of 80.00 chs. by two sets of chainmen is 2 lks.; position of middle point

By 1st set, 80.01 chs.

By 2nd set, 79.99 chs.; the mean of which is

80.00 On broken land, 170 ft. above the bottom of North Gulch.

Set an iron post, 3 ft. long, 2 ins. diam., 8 ins. in the ground to solid rock and in a large mound of stone, for the cor. of secs. 13, 18, 19, and 24, with brass cap marked

RANGE LINE, T. 38 S., BET. R. 14 AND 15 E.

Chains

T38S	
R14E	R15E
S13	S18
S24	S19

1930

from which

A juniper, 3 ins. diam., bears N. 77°15' E., 87 lks. dist., marked BT.

A juniper, 3 ins. diam., bears S. 43°45' E., 42 lks. dist., marked BT.

A pinon, 3 ins. diam., bears S. 7°15' W., 50 lks. dist., marked BT.

A pinon, 3 ins. diam., bears N. 25° W., 35 lks. dist., marked BT.

Land, rough and broken; with a general southwesterly drainage.

Soil, loose sandy loam with sandstone outcroppings; grade.

Undergrowth, sage and black brush, and mountain rush. Timber, juniper and pinon.

Fair grazing land.

North, bet. secs. 13 and 18.

Ascend gradually over rough and broken land, through scattered timber and undergrowth.

5.40 Spur, 35 ft. above cor., slopes W.; descend.

16.20 Draw, 70 ft. below spur, course SW.; ascend.

The difference in the measurement of 40.00 chs. by two sets of chainmen is 4 lks.; position of middle point

By 1st set, 40.02 chs.

By 2nd set, 39.98 chs., the mean of which is

40.00 On broken land, 85 ft. above draw.

Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to solid rock and in a large mound of stone, for 4 sec. cor., with brass cap marked

S13	S18
-----	-----

1930

from which

A juniper, 3 ins. diam., bears N. 45°15' E., 4 lks. dist., marked BTS

A pinon, 3 ins. diam., bears N. 35° W., 60 lks. dist., marked BT.

Continue ascent.

RANGE LINE, T. 38 S., R. 14 E. AND 15 E.

Chains

67.90

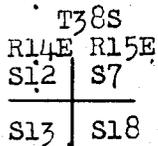
Top of ridge, 90 ft. above the 1/4 sec. cor., bears E. and W.; descend.

No difference in the measurement of 80.00 chs. by two sets of chainmen.

80.00

On broken land, 250 ft. below top of ridge.

Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for cor. of secs. 7, 12, 13, and 18, with brass cap marked



1930

from which

A juniper, 3 ins. diam., bears N. 60° E., 48 lks. dist., marked BT.

A juniper, 3 ins. diam., bears N. 54° 30' W., 17 lks. dist., marked BT.

No other suitable accessories available.

Land, rough and broken, with a general southwesterly drainage.

Soil, loose sand with sandstone outcroppings; 3rd rate. Undergrowth, black and sage brush, mountain rush, and amole plant.

Timber, juniper and pinon.

Fair grazing land.

North, bet. secs. 7 and 12.

Over broken land, through scattered timber and undergrowth.

7.80

Top of left rim of canyon, 75 ft. high, bears NE. and SW.

9.10

Bottom of canyon, drains SW.

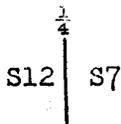
13.80

Top of right rim of canyon, 75 ft. high, bears NE. and SW.

No difference in the measurement of 40.00 chs. by two sets of chainmen.

40.00

Set an iron post, 3 ft. long, 1 in. diam., 3 ins. in the ground to solid rock and in a large mound of stone, for 1/4 sec. cor., with brass cap marked



1930

from which

A pinon, 8 ins. diam., bears S. 44° 15' E., 76 lks. dist., marked 1/4 S7 BT.

RANGE LINE, T. 38 S., R. 12 E., S. 1, and 2.

Chains

A pinon, 6 ins. diam., bears N. 15° W., 500 ft. dist., marked S12M.

43.60 Rim of mesa, 540 ft. above sec. cor., bears N. and W.; thence over broken top of mesa.

56.50 Rim of gulch, 75 ft. high, bears NE. and SW.; descend.

57.90 Bottom of gulch, course NE.; ascend.

58.70 Rim of gulch, bears NE. and SW.; ascend over broken top of mesa.

61.00 Rim of draw, bears E. and W.; descend.

75.00 Draw, 160 ft. deep, course W.; ascend.

No difference in the measurement of 80.00 chs. by two sets of chainmen.

80.00 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to solid rock and in a large mound of stone to top, for cor. of secs. 1, 6, 7, and 8, with brass cap marked S12M.

TIES	
Rim	Rim
S 1	S 6
S 2	S 7

1930

A pinon, 3 ins. diam., bears S. 10° W., 1000 ft. dist., marked BT.

A pinon, 3 ins. diam., bears S. 15° W., 1000 ft. dist., marked BT.

No other suitable accessories available.

Land, rough and broken, with general S.W. drainage. Soil, loose sand with sandstone outcroppings; sparse. Timber, juniper and pinon. Undergrowth, sage and black brush, and arbutus plant. Fair grazing.

North, bet. secs. 1 and 6.

Ascend gradually over rough and broken land, thence scattered timber and medium dense undergrowth.

8.70 Spur, 25 ft. above sec. cor., slope N.; descend.

15.00 Left rim of canyon, bears E. and W.; descend over ledge.

28.00 Bottom of canyon, 900 ft. deep, course NE.; ascend.

No difference in the measurement of . . . chs. by two sets of chainmen.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to solid rock and in large mound of stone to top, for 1/2 sec. cor. with brass cap marked

TIES	
Rim	Rim
S 1	S 6

1930

RANGE LINE, T. 38 S., BET. Rs. 14 and 15 E.

Chains

- deposit a sandstone, 6 x 5 x 4 ins., at base of post, marked X.
- Ascend abruptly over slope broken by ledges.
- 22.30 Right rim of canyon, 960 ft. above bottom, bears SE. and NW. continue ascent over broken slope.
- 23.00 Spur, 200 ft. above rim of canyon, projects W.; descend
- No difference in the measurement of 80.00 chs. by two sets of chains.
- 25.00 On broken surface rock, 90 ft. below spur, mark a cross, over which
- Set an iron post, 3 ft. long, 3 ins. diam., in mound of stone to top, for cor. of Tps. 37 and 38 S., Rs. 14 and 15 E., with brass cap marked

T37S	
R14E	R15E
S36	S31
S 1	S 6
T38S	

1930

from which

A Juniper, 3 ins. diam., bears N.54° 30'E., 102 lks. dist., marked BT.

A Juniper, 3 ins. diam., bears S.38°45'E., 48 lks. dist., marked BT.

A Juniper, 5 ins. diam., bears S.26° 30'W., 68 lks. dist., marked T37SR14ES1BT.

A Juniper, 6 ins. diam., bears N.24° 30'W., 53 lks. dist., marked T37SR14ES36BT.

Land, rough and broken; general drainage NW.
Soil, loose sandy loam; with sandstone outcroppings; 3rd rate.
Timber, Juniper and pinon.

Color growth, sage and black brush.
Fair grazing.

RANGE LINE, T. 37 S., BET. Rs. 14 and 15 E.

May 25, 1930, at the cor. of Tps. 37 and 38 S., Rs. 14 and 15 E., approximate latitude 37° 32' N., longitude 110° 18' W., at 3h 30m a.m., l.m.t., or 3h 51m a.m., by my watch which reads correct 103th meridian time as determined by radio signals, I observe Polaris at eastern elongation, making four observations, two each with the telescope in direct and reversed positions, and reading the horizontal angle to the left to a flag about 30.00 chs. north.

The mean horizontal angle,	1° 21'
azimuth of Polaris,	1° 21'
true bearing of flag,	North.

Hence

North, bet. secs. 31 and 36, along range line in Tp. 37 S., bet. Rs. 14 and 15 E.

RANGE LINE, T. 37 S., BET. Rs. 14 and 15 E.

Chains

Over broken land, through scattered timber, and undergrowth
9.00 Left rim of canyon, bears SE. and NW.; descend broken slope over ledges.

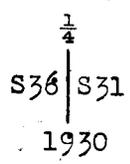
19.00 Bottom of canyon, 840 ft. below rim, course NW.; ascend over ledges.

29.00 Sandstone rim, 200 ft. high, bears SE. and NW.

No difference of measurement of 40.00 chs. by two sets of chainmen.

40.00 On broken slope, 630 ft. above canyon, on surface rock, mark a cross, over which

Set an iron post, 3 ft. long, 1 in. diam., in large mound of stone to top, for $\frac{1}{4}$ sec. cor., with brass cap marked



from which

A pinon, 5 ins. diam., bears N. 75° E., 226 lks. dist., marked $\frac{1}{4}$ S31BT.

A juniper, 6 ins. diam., bears N. 30° W., 98 lks. dist., marked $\frac{1}{4}$ S36BT.

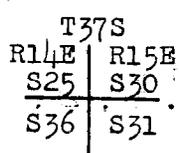
48.00 Rim of mesa, 175 ft. above $\frac{1}{4}$ sec. cor., bears SE. and NW.; thence over rolling top of mesa.

72.00 Rim of draw, bears SE. and NW.; descend:

78.80 Small draw, 75 ft. deep, course NW.; ascend.

No difference of measurement of 80.00 chs. by two sets of chainmen:

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 4 ins. in the ground to solid rock, and in large mound of stone to top, for cor. of secs. 25, 30, 31, and 36, with brass cap marked



1930

from which

A juniper, 3 ins. diam., bears N. 26° E., 180 lks. dist., marked BT.

A pinon, 3 ins. diam., bears S.26° 45'E., 114 lks. dist., marked BT.

A juniper, 3 ins. diam., bears S.47° 30'W., 135 lks. dist., marked BT.

A juniper, 16 ins. diam., bears N.81° 15'W., 128 lks. dist., marked T37SR14ES25BT.

Land, rough and broken; general drainage and exposure, NW. Soil, loose sandy loam, with sandstone outcroppings; 3rd rate. Timber, juniper and pinon.

RANGE LINE, T. 37 S., BET. R. 14 and 15 E.

Chains

Undergrowth, sage and black brush.
Fair grazing.

North. bet. secs. 25 and 30.

Ascend over rough and broken land, through medium growth of timber, and undergrowth.

9.00 Sandstone spur, 120 ft. above sec. cor., slopes NW.; descend

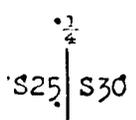
18.50 Draw, 30 ft. below spur, course SW.; ascend

38.00 Rim of Red Canyon, 30 ft. above draw, bears SE. and NW.; abrupt descent over ledges.

No difference of measurement of 40.00 chs. by two sets of chainmen.

40.00 On abrupt slope, 100 ft. below rim of canyon.

Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to solid rock and in large mound of stone to top, for $\frac{1}{4}$ sec. cor., with brass cap marked



1930 from which

A pinon, 14 ins. diam., bears N. 83° 15' E., 125 lks. dist., marked $\frac{1}{4}$ S30BT.

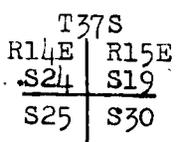
A juniper, 6 ins. diam., bears N. 54° 30' W., 41 lks. dist., marked $\frac{1}{4}$ S25BT.

40.50 Sandstone ledge, 200 ft. high, bears SE. and NW.; abrupt descent.

No difference of measurement of 80.00 chs. by two sets of chainmen.

80.00 On W. slope of Red Canyon, 1260 ft. below $\frac{1}{4}$ sec. cor.

Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground to solid rock and in large mound of stone to top, for cor. of secs. 19, 24, 25, and 30, with brass cap marked



1930

6 x 4 x 5 ins., marked with a cross, at base of post. deposit a sandstone

No other suitable accessories available.

Land, rough and broken.

Soil, loose sandy loam, with sandstone outcroppings; 3rd rate.

Timber, juniper and pinon.

Undergrowth, sage and black brush.

Fair grazing.

RANGE LINE, T: 37 S., BET. Rs: 14 and 15 E.

Chains

North, bet. secs. 19 and 24.

Along rocky W. slope; over rough and broken land, through medium dense undergrowth.

1.90 Rocky point, 20 ft. above sec. cor., slopes W.; descend

10.20 Draw, 200 ft. below rocky point, course NE.; ascend.

16.00 Spur, 50 ft. above draw, slopes E.; descend.

30.00 Draw, course NE.; continue descent.

38.60 Red Canyon, 280 ft. below spur, course SW.; ascend.
No difference of measurement of 40.00 chs. by two sets of chainmen.

40.00 On N. side of Red Canyon

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, for sec. cor., with brass cap marked



from which

Face of sandstone ledge, 5 ft. above ground, bears N. 25° E., 17 lks. dist., marked XLO.

Face of sandstone ledge, 5 ft. above ground, bears N. 34° W., 28 lks. dist., marked XLO.

Ascend over broken SW. slope.

46.30 Sandstone ledge, 20 ft. high, bears S. and NW.

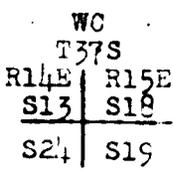
67.00 Spur, 70 ft. above sec. cor., slopes W.; descend.

70.00 Gulch, 2 chs. wide, 40 ft. deep; course SW.

79.00 Gulch, 80 ft. deep, 1.50 chs. wide, course SW.

No difference of measurement of 79.97 chs. by two sets of chainmen.

79.97 Set an iron post, 3 ft. long, 2 ins. diam., over cross cut in solid rock, in large mound of stone to top, for witness cor. to cor. of secs. 13, 18, 19, and 24, with brass cap marked



1930

80.00 True point for cor. of secs. 13, 18, 19, and 24, on sloping sandstone where it is impracticable to set cor. monument.

Land, rough and broken.
Soil, sandy loam, shale, and sandstone outcroppings; 3rd rate.
Timber, very scattered juniper and pinon.
Undergrowth, sage and buck brush.
Fair grazing.

RANGE LINE, T. 37 S., BET. Rs. 14 and 15.

Chains

From true point for cor. of secs. 13, 18, 19, and 24.

North, bet. secs. 13 and 18.

Over rough and broken land, through medium undergrowth.

0.10 Sandstone ledge, 20 ft. high, bears E. and W.; thence over rolling bench

28.20 Draw, course W.; ascend rolling slope.

No difference of measurement of 40.00 chs. by two sets of chainmen.

40.00 Top of ascent, 130 ft. above draw, bears E. and W.

Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to solid rock, and in large mound of stone to top, for $\frac{1}{4}$ sec. cor., with brass cap marked
$$\begin{array}{c} \frac{1}{4} \\ | \\ S13 | S18 \end{array}$$

1930

6 x 5 x 4 ins., marked with a cross, at base of post. deposit a sandstone

51.00 Descend into draw, bears E. and W.

67.00 Draw, 190 ft. deep, course SW.; ascend

No difference of measurement of 80.00 chs. by two sets of chainmen.

80.00 On rolling slope, 200 ft. above draw.

Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground to solid rock, and in large mound of stone to top, for cor. of secs. 7, 12, 13, and 18, with brass cap marked

$$\begin{array}{c} T37S \\ R14E | R15E \\ S12 | S7 \\ \hline S13 | S18 \end{array}$$

1930

5 x 4 x 3 ins., marked with a cross, at base of post. deposit a sandstone

Land, broken and rolling; general drainage SW.
Soil, sandy loam, shale, blue clay, and sandstone out-croppings; 3rd rate.

No timber.

Undergrowth, shadscale and buck brush.

Fair grazing.

North, bet. secs. 7 and 12.

Over rough and broken land, through medium undergrowth.

2.00 Small draw, course SW.; ascend.

22.65 Small spur, slopes W.; thence along W. slope.

30.00 Small draw, course W.; ascend.

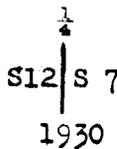
RANGE LINE, T. 37 S., BET. Rs. 14 and 15 E.

Chains

No difference of measurement of 40.00 chs. by two sets of chainmen.

40.00 On SW. slope, 430 ft. above sec. cor.

Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to solid rock and in a large mound of stone to top, for 1/4 sec. cor., with brass cap marked



6 x 5 x 4 ins., marked with a cross, at base of post. deposit a sandstone,

Abrupt ascent over sandstone ledges.

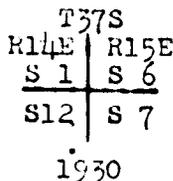
51.00 Rim of spur, 230 ft. above 1/4 sec. cor., bears NE. and SW.; ascend over rolling top of spur.

71.00 Rim of spur; bears E. and W.; abrupt descent over ledges.

No difference of measurement of 80.00 chs. by two sets of chainmen.

80.00 On N. slope, 670 ft. below spur, on surface rock, cut a cross over which

Set an iron post, 3 ft. long, 2 ins. diam., in large mound of stone to top, for cor. of secs. 1, 6, 7, and 12, with brass cap marked



Land, rough and broken; general drainage W. Soil, loose sandy loam, shale and clay, with sandstone outcroppings; 3rd rate.

No timber.

Undergrowth, buck brush.

Fair grazing.

North, bet. secs. 1 and 6.

Descend N. slope over rough and broken land, through medium dense undergrowth.

23.10 Draw, 350 ft. below sec. cor., course N. 60°E.; ascend.

30.00 Low spur, 15 ft. above draw, slopes E.; descend.

No difference of measurement of 40.00 chs. by two sets of chainmen.

40.00 On broken N. slope, 125 ft. below spur.

Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to solid rock and in large mound of stone to top, for 1/4 sec. cor., with brass cap marked

RANGE LINE, T. 37 S., BET. Rs. 14 and 15 E.

Chains

$$\frac{1}{4}$$

S 1	S 6
-----	-----

1930

deposit a sandstone,

4 x 4 x 3 ins., marked with a cross, at base of post.

From this $\frac{1}{4}$ sec. cor., spring of clear water bears W.,
5.00 chs. dist.

73.80 Draw, 200 ft. below $\frac{1}{4}$ sec. cor., course N. 70° W., ascend
over rolling land.

Difference of measurement of 80.00 chs. by two sets of
chainmen is 4 lks.; position of middle point

By 1st set, 79.98 chs.

By 2nd set, 80.02 chs.; mean of which is

80.00 On rocky spur, 50 ft. above draw, slopes W.

Set an iron post, 3 ft. long, 3 ins. diam., 4 ins. in the
ground to solid rock and in large mound of stone to top,
for cor. of Tps. 36 and 37 S., Rs. 14 and 15 E., with
brass cap marked

T36S	
R14E	R15E
S36	S31
S 1	S 6
T37S	

1930

Deposit a sandstone,

8 x 6 x 5 ins., marked X, at base of post.

Land, rough and broken; general drainage NW.

Soil, loose sandy loam, shale, and clay with sandstone
outcroppings; 3rd rate.

No timber.

- Undergrowth, iron and buck brush.

Fair grazing.

RANGE LINE, T. 36 S., BET. Rs. 14 and 15 E.

October 14, 1930, at the corner of Tps. 36 and 37 S., Rs.
14 and 15 E., approximate latitude 37° 37' N., longitude
110° 18' W., at 6h 10m p.m., l.m.t., or 6h 31m p.m., by my
watch which carries correct 105th meridian time as deter-
mined by radio signals, I observe Polaris at eastern
elongation, making four observations, two each with the
telescope in direct and reversed positions, and reading
the horizontal angle to the left to flag about 10 chs.
north.

The mean horizontal angle from Polaris to flag	1° 21'
Azimuth of Polaris at eastern elongation	1° 21'
True bearing of flag	north.

Thence

North, bet. secs. 31 and 36, along range line, T. 36 S.,
bet. Rs. 14 and 15 E.

Over rough and broken land, through medium dense undergrowth
Ascend.

RANGE LINE, T. 36 S., BET. Rs. 14 and 15 E.

Chains

6.00 Spur, 30 ft. above Tp. cor., slopes W.; descend.

13.80 Draw, 50 ft. below spur, course W.; ascend.

26.00 Spur, 30 ft. above draw, slopes W.; descend.

38.10 Draw, 50 ft. below spur, course SW.; ascend.

Difference of measurement of 40.00 chs. by two sets of chainmen is 4 lks.; position of middle point.

By 1st set, 40.02 chs.

By 2nd set, 39.98 chs.; mean of which is

40.00 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground, to solid rock and in large mound of stone to top, for 1/4 sec. cor., with brass cap marked



6 x 5 x 4 ins., marked X, at base of post. deposit a sandstone,

42.30 Spur, 40 ft. above draw, slopes W.; descend.

48.90 Draw, 70 ft. below spur, course SW.; ascend.

52.00 Spur, 40 ft. above draw, slopes W.; descend.

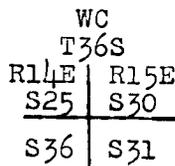
60.80 Draw, 50 ft. below spur, course SW.; ascend.

70.00 Spur, 50 ft. above draw, slopes W.; descend

No difference of measurement of 79.88 chs. by two sets of chainmen.

79.88 On broken N. slope, near bottom of draw, 130 ft. below spur.

Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground to solid rock and in large mound of stone to top, for witness cor. to cor. of secs. 25, 30, 31, and 36, with brass cap marked



5 x 4 x 3 ins., marked X, at base of post. deposit a sandstone,

80.00 True point for cor. of secs. 25, 30, 31, and 36, on sloping sandstone outcrop, where it is impracticable to set cor. monument.

Land, rough and broken; general drainage SW. Soil, loose sandy loam and red shale, with sandstone outcroppings; 3rd rate. No timber.

Undergrowth, buck brush and mountain rush. Fair grazing.

RANGE LINE, T. 36 S., BET. Rs. 14 and 15 E.

Chains

From the true point for cor. of secs. 25, 30, 31, and 36.
North, bet. secs. 25 and 30.

Over rough and broken land, through medium dense undergrowth

0.30 Draw, course NW.; ascend.

3.20 Spur, 50 ft. above draw, slopes NW.; descend.

18.40 Draw, 120 ft. below spur, course SW.; ascend.

Difference of measurement of 40.00 chs. by two sets of chainmen is nothing.

40.00 On W. slope, 170 ft. above draw.

Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to solid rock, and in large mound of stone to top, for $\frac{1}{4}$ sec. cor., with brass cap marked



5 x 4 x 3 ins., marked with a cross, at base of post. deposit a sandstone,

68.00 Ridge, 290 ft. above $\frac{1}{4}$ sec. cor., bears E. and W.; descend over rolling N. slope.

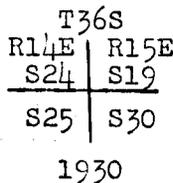
Difference of measurement of 80.00 chs. by two sets of chainmen is 4 lks.; position of middle point.

By 1st set, 80.02 chs.

By 2nd set, 79.98 chs.; mean of which is 80.00

80.00 On N. slope, 70 ft. below ridge.

Set an iron post, 3 ft. long, 2 ins. diam., 14 ins. in the ground to solid rock, and in large mound of stone to top, for cor. of secs. 19, 24, 25, and 30, with brass cap marked



5 x 4 x 3 ins., marked X, at base of post. deposit a sandstone

Land, rough and broken; general drainage SW.
Soil, loose sandy loam, clay and shale, with sandstone outcroppings; 3rd rate.
No timber.
Undergrowth, buck brush and shadscale.
Fair grazing.

North, bet. secs. 19 and 24.

Over rough and broken land, through medium dense undergrowth

1.20 draw, course NW.; ascend.

RANGE LINE, T. 36. S., BET. Rs. 14 and 15 E.

Chains

12.00 Ridge, 50 ft. above draw, bears E. and W.; descend N. slope.

27.60 Draw, 290 ft. below ridge, course SW.; ascend SW. slope.

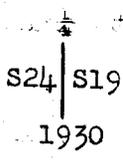
Difference of measurement of 40.00 chs. by two sets of chainmen is .4 lks.; position of middle point.

By 1st set 39.98 chs.

By 2nd set, 40.02 chs.; mean of which is

40.00 On SW. slope, 240 ft. above draw, on surface rock, cut a cross, over which

Set an iron post, 3 ft. long, 1 in. diam., in large mound of stone to top, for 1/4 sec. cor., with brass cap marked



42.50 Ridge, 50 ft. above 1/4 sec. cor., bears E. and W.; descend

52.80 Draw, .60 ft. below ridge, course W.; ascend.

66.00 Spur, 15 ft. above draw, slopes W.; descend 75 ft. to

Difference of measurement of 80.00 chs. by two sets of chainmen is nothing.

80.00 True point for cor. of secs. 13, 18, 19, and 24, on large boulder where it is impracticable to set cor. monument. Cut deep cross at true point for cor., and N., 1.00 chs. dist., set witness cor., as described on line bet. secs. 13 and 18.

Land, rough and broken; general drainage SW. Soil, loose sandy loam, shale, limestone and outcroppings of sandstone; 4th rate.

No timber.

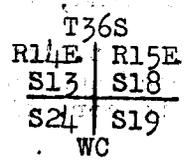
Undergrowth, shadscale and buck brush.

Fair grazing.

North, bet. secs. 13 and 18.

Descend over rough and broken land, through medium dense undergrowth.

1.00 Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground to solid rock and in large mound of stone to top, for witness cor. to cor. of secs. 13, 18, 19, and 24, with brass cap marked



6 x 5 x 4 ins., marked X, at base of post. deposit a sandstone,

1.20 Draw, course W.; ascend.

7.00 Spur, 50 ft. above draw, slopes W.; descend

RANGE LINE, T. 36.S., BET. Rs. 14 and 15 E.

10000

Chains

11.60 Rim of canyon, 100 ft. high, bears E. and W.; descend over ledges.

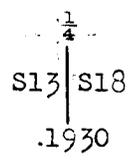
24.40 Bottom of canyon, 400 ft. below spur, course W.; ascend

33.10 Rim of canyon, 50 ft. high, bears E. and W.; thence over rolling top.

Difference of measurement of 40.00 chs. by two sets of chainmen is 10 lks.; position of middle point

By 1st set, 39.95 chs.
By 2nd set, 40.05 chs.; mean of which is

40.00 Set an iron post, 3 ft. long, 1 in. diam., 4 ins. in the ground to solid rock and in large mound of stone to top, for 1/4 sec. cor., with brass cap marked



deposit a sandstone, 6 x 5 x 3 ins., marked X, at base of post.

48.00 Descend NW. slope, bears E. and W.

50.00 Descend along W. slope.

59.10 Draw, 130 ft. below 1/4 sec. cor., course W.; ascend.

69.50 Spur, slopes W.; 60 ft. above draw, descend.

Difference of measurement of 80.00 chs. by two sets of chainmen is nothing.

80.00 On N. slope 75 ft. below spur.

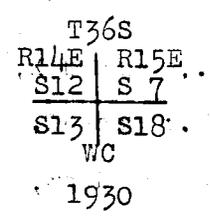
True point for cor. of secs. 7, 12, 13, and 18, on sloping boulder, where it is impracticable to set cor. monument. Cut deep cross at cor. point, and at a point N., 6 lks. dist., set witness cor. as described on line bet. secs. 7 and 12.

Land, rough and broken; general drainage SW. Soil, loose sandy loam, shale and limestone; 4th rate. No timber. Undergrowth, mountain rush and shadscale. Fair grazing.

North, bet. secs. 7 and 12.

Ascend over broken land, through medium dense undergrowth

0.06 Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground to solid rock and in large mound of stone to top, for witness cor. to cor. of secs. 7, 12, 13, and 18, with brass cap marked



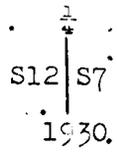
RANGE LINE, T. 36 S., BET. Rs. 14 and 15 E.

Chains

- 6 x 5 x 4 ins., marked X, at base of post. deposit a sandstone,
- 1.60 Rocky point, 15 ft. above corner., slopes W.; descend NW. slope.
- 3.30 Rim of canyon, 100 ft. high, bears E. and W.; descend over ledges.
- 4.20 Bottom of canyon, course W.; ascend
- 8.30 Low spur, slopes SE.; descend.
- 10.60 Recross bottom of canyon, course SE.; ascend.
- 15.00 Low spur, slopes NW.; descend.
- 16.00 Recross canyon, course NW.; ascend
- 18.20 Sandstone rim, 50 ft. high, bears E. and W.; ascend over ledges and broken slope.
- 24.30 Rim of canyon, 150 ft. above bottom of canyon, bears NE. and SW.; thence over broken land.
- 30.00 Descend, bears E. and W.
- 33.60 Draw, 80 ft. deep, course SE.; ascend.
- Difference of measurement of 40.00 chs. by two sets of chainmen is 2 lks.; position of middle point.

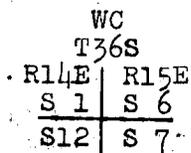
By 1st set 40.01 chs.
 By 2nd set 39.99 chs.; mean of which is

- 40.00 On red shale knoll, 60 ft. above draw.
- Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to solid rock and in large round of stone to top, for 2 sec. cor., with brass cap marked



- 6 x 5 x 4 ins., marked X, at base of post. deposit a sandstone,
- Ascend over broken SE. slope.
- 62.70 Blue clay point, slopes E.
- Difference of measurement of 77.57 chs. by two sets of chainmen is nothing.

- 77.57 At base of vertical sandstone ledge, 710 ft. above 1/4 sec. cor.
- Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground to solid rock and in large mound of stone to top, for witness cor. to cor. of secs. 1, 6, 7, and 12, with brass cap marked



. RANGE LINE, T. 36 S., BET. Rs. 14 and 15 E.

Chains

miles

Face of ledge, marked S12XB0, bears W., 2 lks. dist.

Face of ledge, marked S7XB0, bears N. 55° E., 5 lks. dist.

30.00 True point for cor. of secs. 1, 6, 7 and 12, on face of ledge, where it is impracticable to set cor. monument.

Land, rough and broken.

Soil, loose sandy loam, shale, clay, and exposed sandstone, 4th rate.

No timber.

Undergrowth, mountain rush and shadscale.

Fair grazing.

From true point for cor. of secs. 1, 6, 7, and 12.

North, bet. secs. 1 and 6.

Ascend over ledges over rough and broken land,

12.50 Top of rocky spur, 300 ft. above witness cor., projects SW.; descend gradually over broken slope through scattered timber, and undergrowth.

31.56 Intersect 7th Stand. Par. S., through R. 15 E., E., 4.19 chs. dist. from standard 4 sec. cor. S. bdy. sec. 31, as described in the field notes of survey of 7th Stan. Par. S.

At point of intersection.

Set a sandstone, 36 x 14 x 10 ins., (no iron post available) 6 ins. in the ground to solid rock and in mound of stone for closing cor. of Tps. 36 S., Rs. 14 and 15 E., marked C0 T36S on S., R15E on E., R14E. on W. face, and 6 notches on E., W., and S., from which

A juniper, 3 ins. diam., bears S. 61° 30' E., 78 lks. dist., marked BT.

A pinon, 3 ins. diam., bears S. 16° 30' W., 171 lks. dist., marked BT.

Land, rough and broken.

Soil, clay shale and sandy loam, with exposed sandstone, 4th rate.

Scattered juniper and pinon timber.

Undergrowth, shadscale, mountain rush and buck brush.

Fair grazing.

GENERAL DESCRIPTION

The land over which this range line passes is rough and broken, with high benches and ridges, and steep slopes of canyons broken by sandstone ledges. Red Canyon and tributaries form the main drainage. Red Canyon crosses the range line in T. 37 S., draining in a northwesterly direction into the Colorado River.

The soil is a loose sandy loam, 3rd rate, with some clay and exposed sandstone.

The benches and ridges are covered with a medium growth, and the slopes and bottoms with a scattered growth of scrub juniper and pinon timber of no commercial value.

GENERAL DESCRIPTION

Chains

The slopes and benches are covered with a medium growth of black brush, amole plant, buck brush, mountain rush and shadscale, and also a medium growth of bunch grass and weeds are found which affords good grazing for stock.

The land is used for the grazing of stock. Due to the roughness, inaccessibility, and the scarcity of water, only about fifty per cent of the land is utilized.

The nearest post office and supply point is Blanding, Utah, approximately 75 miles easterly. The only means of travel is by saddle horse. There were no settlers located along or in the near vicinity of this line.

No surface indications of coal, oil or minerals were noted during the survey.

FIELD ASSISTANTS

NAMES	CAPACITY
Philander Maxwell	Chainman
Edgar Hayes	Chainman
John Pherson	Chainman
Lynn Hawkes	Flagman
John Pherson	Cornerman

CERTIFICATE OF UNITED STATES SURVEYOR

I, Robert C. Yundt, Surveyor, HEREBY CERTIFY upon honor that, in
pursuance of special instructions bearing date of the 10th day of September, 1928
received from the district cadastral engineer for Utah, with assignment
instructions dated March 18, 1930, I have surveyed the range line between
ranges 14 and 15 east, through townships 36, 37, 38, and 39 south

of the Salt Lake Meridian, in the State of Utah, which are
represented in the foregoing field notes as having been executed by me and under my direction; and that said
survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey
of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.
Salt Lake City, Utah
May 6, 1939

Robert C. Yundt
Surveyor

CERTIFICATE OF APPROVAL

OFFICE OF U.S. SUPERVISOR OF SURVEYS,

Denver, Colo., February 8, 1945.

The foregoing field notes of the survey of the range line between Rs. 14 and 15 E.,
through Tps. 36, 37, 38, and 39 S.

executed by Robert C. Yundt, Surveyor
under special instructions dated September 10, 1928, and assignment
instructions dated March 18, 1930, having been critically examined, and
the necessary corrections made prior to their certification by the engineer, the said field notes, and the survey
therein described, are hereby approved.

[Signature]
U.S. Supervisor of Surveys.

CERTIFICATE OF TRANSCRIPT

I certify that the foregoing transcript of the field notes of the above-described surveys in
_____, is a true copy of the original field notes on file in the public survey office.

U.S. Supervisor of Surveys.

94
RECEIVED

MAR 9 1935
Department Of The Interior
Public Survey Office
Salt Lake City, Utah

Book "A"

FIELD NOTES

OF THE SURVEY OF THE

RANGE LINE BETWEEN RANGES 16 AND 17 EAST,

THROUGH

TOWNSHIPS 39, 38, AND 37 SOUTH,

AND

EAST BOUNDARY OF T. 36 S., R. 16 E.

RECEIVED
MAY 23 1939
District No. 96

Of the SALT LAKE Meridian,

In the State of UTAH

EXECUTED BY

Chas. F. Moore and Rolt. C. Knut, Surveyors.

Under special instructions dated September 10, 1928, which provided
and May 9, 1929
for the surveys included under Group No. 217, bearing the approval of the
Commissioner of the General Land Office under date of September 24, 1928.
and June 5, 1929,
and assignment instructions dated December 15, 1928.

Survey commenced April 29th, 1929

Survey completed June 3rd, 1929

INDEX DIAGRAM.

Township _____, *Range* _____

	T36S	T37S	T38S	T39S
1	1 20 6	1 15 6	1 7 6	
12	12 11 7	12 14 7	12 5 7	
13	13 19 18	13 12 18	13 4 18	
R.16E	R.16E.	R.17E.	R.16 E. R. 17 E.	R.16 E. R.17E.
24	24 18 19	24 11 19	24 3 19	
25	25 17 30	25 10 30	25 8 30	
36	36 16 31	36 9 31	36 1 31	



INSTRUMENT TEST

Survey commenced April 29, 1929, and executed with **Buff and Buff** transit No. 9797, property of the General Land Office. The instrument is equipped with Smith solar attachment and full vertical circle; the horizontal limb is provided with two double verniers, placed opposite to each other and reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs and vertical circle.

The instrument was approved for use on this survey, conditional upon satisfactory field tests, by the district cadastral engineer for Utah, in assignment instructions for Group 217, Utah. The solar attachment was not used during this survey, the directions of the lines were determined by altitude observations on the sun as hereinafter recorded. The instrument was in good condition during the survey and all adjustments were in proper order.

The data furnished with the special instructions give the latitude 37°21'N., longitude 110°06'W., the cor. of Tps. 39 and 40 S., Rs. 16 and 17 E

MEASUREMENTS

Unless otherwise specified the measurements are made with Lallie steel ribbon tapes, 8 chains in length, graduated every link for the first 100 lks., and the balance at intervals of 10 lks. The tapes were tested by comparison with a Lufkin standard steel tape and found correct. The measurements were made on the slope and the vertical angle of each interval was ascertained by improved type clinometers in good adjustment; the horizontal equivalents are entered in the field note record. Some of the distances were determined by triangulation as hereinafter recorded.

RANGE LINE, BET. Rs. 16 and 17 E., Through Tp. 39 S.

I commence the survey of the range line bet. Rs. 16 and 17 E., through townships 36, 37, 38, and 39 S., at the cor. of Tps. 39 and 40 S., Rs. 16 and 17 E., established under Group 191 Utah, and which is an iron post, 3 ins. diam., firmly set, and marked and witnessed as described in the official record.

Stationed at the above corner and with the telescope sighting at the cor. of secs. 5, 6, 31 and 32 on the n. bdy. of T. 40 S., R. 17 E., (true bearing of this mile is S.89°56'W.) I deflect an angle of 89°56' to the left.

Thence

North, bet. secs. 31 and 36.
Descend NW. slope over broken land, through scattering timber and undergrowth.

19.30 Draw, 85 ft. below tp. cor., drains SW; ascend 55 ft to

22.80 Spur, projects SW.; ascend over rocky mesa land entering heavier timber.

Diff. bet. meas. of 40.00 chs. by two sets of chainmen is 2 lks.; position of middle point
by 1st set 40.01 chs.
by 2nd set 39.99 chs.; the mean of which is

40.00 On surface rock, mark a cross (+), over which set an iron post, 3 ft long, 1 1/2 in diam., 30 ins. in a mound of stone, for the 1/4 sec. cor., with brass cap marked

S 36 | S 31

1929

from which

Chains

A pinon, 10 ins. diam., bears S.42°35'E., 25 lks. dist., marked $\frac{1}{4}$ S 31 BT.

A pinon, 12 ins. diam., bears S.24°45'W., 96 lks. dist., marked $\frac{1}{4}$ S 36 BT.

43.20 Ridge, bears E. and W.; descend NW. slope 70 ft. to

61.15 Draw, course SW.; ascend SE. slope, broken surfacerock and scattering timber.

76.40 Spur, 135 ft. above draw, projects SW.

Diff. bet. meas. of 80.00 chs. by two sets of chainmen is nothing.

80.00 On surface rock, mark cross (+) over which. Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in mound of stone, for the cor. of secs. 25, 30, 31, and 36, with brass cap marked.

T39S	
R16E	R17E
S25	S30
<hr/>	
S36	S31
1929	

from which

A pinon, 3 ins. diam., bears N.75°30'E., 72 lks. dist., marked BT.

A pinon, 5 ins. diam., bears S.58°45'E., 129 lks. dist., marked BT.

No other bearing trees available.

Land, broken bench or mesa land; general drainage SW. Soil, shallow sandy loam and rock, sandstone formation; 4th rate.

Timber, scattering to medium growth of scrub juniper and pinon.

Undergrowth, scattered artimesia and desert shrubs. Fair grazing.

North, bet. secs. 25 and 30.

Descend general NW. slope over broken land, through scattering timber and undergrowth.

7.30 Draw, 30 ft. below sec. cor., drains SW.; ascend 55 ft. to

17.40 Sandstone spur, projects SW.; descend 50 ft. to

31.00 Draw, drains SW.; gradually ascend

37.90 Low sandy spur, projects SW.

Diff. bet. meas. of 40.00 chs. by two sets of chainmen is 4 lks.; position of middle point
by 1st set 40.02 chs.
by 2nd set 39.93 chs.; the mean of which is

40.00 Set an iron post, 3 ft. long, 1 in. diam., 5 ins. in the ground to solid rock, and in a large mound of stone for the sec. cor., with brass cap marked

RANGE LINE, BEET. Rs. 16 and 17 E., THROUGH T. 38 S.

Chains

S 25		S 30
1929.		

from which.

A pinon, 5 ins. diam., bears S.32°45'E., 65 lks. dist., marked $\frac{1}{4}$ S 30 BT.

A pinon, 6 ins. diam., bears S.12°30'W., 152 lks. dist., marked $\frac{1}{4}$ S 25 BT.

43.20 Wash, drains SW.; ascend broken SW. slope.

53.30 Surfacerock spur, slopes SW.; 70 ft. above $\frac{1}{4}$ sec. cor.; descend NW. slope.

71.10 Draw, 50 ft. below spur, drains SW.; leave timber and undergrowth, thence over barren bench land.

Diff. bet. meas. of 80.00 chs. by two sets of chainmen is 2 lks., position of middle point by 1st set of chainmen is 80.01 chs. by 2nd set of chainmen is 79.99 chs.; mean of which is

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 50 ins. in the ground, for the corner of secs. 19, 24, 25, and 30, with brass cap marked.

T393	
R16E	R17E
S24	S19

S25	S30
1929	

Deposit a sandstone, 6x5x4 ins. marked with cross (+) at base of post.

Land, broken hilly table lands; drainage SW. Soil, shallow sandy loam and rocky of sandstone formation; 4th rate. Timber, scattered juniper and pinon. Undergrowth, blackbrush, yellow top and iron brush. Fair grazing.

North, bet. secs. 19 and 24.

Over barren bench land. Ascend 50 ft. to

16.40 Sandstone spur, projects SW. Descend 100 ft. to

Diff. bet. meas. of 40.00 chs. by two sets of chainmen is nothing.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 50 ins. in the ground, for the $\frac{1}{4}$ sec. cor., with brass cap marked

S 24		S 19
1929		

from which

A juniper, 10 ins. diam., bears S.54°30'E., 317 lks. dist., marked $\frac{1}{4}$ S 19 BT.

<p>Chains</p> <p>40.30</p> <p>45.00</p> <p>48.10</p> <p>80.00</p> <p>26.00</p>	<p>No other suitable bearing tree available.</p> <p>Deep draw, drains SW.; ascend SW. slope, scattering timber and undergrowth. Ascend 150 ft. over broken land to sec. cor.</p> <p>Sandy spur, projects W.; descend</p> <p>Wash, drains SW.; ascend SW. slope over series of overhanging ledges.</p> <p>Diff. bet. meas. of 80.00 chs. by two sets of chainmen is 2 lks., position of middle point by 1st set, 80.01 chs. by 2nd set, 79.99 chs., the mean of which is</p> <p>Set an iron post, 5 ft. long, 2 ins. diam., 30 ins. in a mound of stone on solid rock, for the cor. of secs. 13, 18, 19, and 24, with brass cap marked</p> <table border="1" data-bbox="702 687 862 873"> <tr> <td>T39S</td> <td>R16E</td> <td>R17E</td> </tr> <tr> <td></td> <td>S13</td> <td>S18</td> </tr> <tr> <td></td> <td>S24</td> <td>S19</td> </tr> <tr> <td></td> <td colspan="2">1929</td> </tr> </table> <p>from which</p> <p>A juniper, 5 ins. diam., bears N.51°45'E., 126 lks. dist., marked T39S R17E S18 BT.</p> <p>A juniper, 6 ins. diam., bears S.23°15'E., 101 lks. dist., marked T39S R17E S19 BT.</p> <p>A juniper, 3 ins. diam., bears S.77°45'W., 128 lks. dist., marked BT.</p> <p>A juniper, 10 ins. diam., bears N.21°30'W., 87 lks. dist., marked T39S R16E S13 BT.</p> <p>Land, rolling and broken bench; drainage SW. Soil, shallow sandy loam and rocky of sandstone formation 4th rate. Timber, scattered scrub juniper and pinon. Undergrowth, blackbrush, yellow top and sagebrush. Fair grazing.</p> <p>North bet. secs. 13 and 18.</p> <p>Over broken bench land, ascend 90 ft. to ridge, over gent. SW. slope, through dense timber and scattering undergrowth</p> <p>Ridge, divide bet. Slickhorn Canyon and Grand Gulch, bears NE. and SW.; descend 75 ft. over NW. slope to sec. cor.</p> <p>May 1st, 1929: At this point, in order to verify the alignment of this range line, I make an altitude observation of the sun, first setting on the sun's upper and right limb then, after reversal of the instrument, setting on the lower and left limb; the horizontal angles are measured from a point on the range line about two miles south to the left to the sun. Mean watch time of observation a.m. 9h 40m 55s Mean vertical angle 45°19'45" Mean horizontal angle 72°05'00" Reduced bearing to point on range line is S.0°00'35"E. I correct the bearing of the line 30" to the right and continue North.</p>	T39S	R16E	R17E		S13	S18		S24	S19		1929	
T39S	R16E	R17E											
	S13	S18											
	S24	S19											
	1929												

RANGE LINE, BET. Rs. 16 and 17 E., THROUGH T. 39 S.

Chains

Diff. bet. meas. of 40.00 chs. by two sets of chainmen in 2 lks., position of middlepoint by 1st set 40.01 chs., by 2nd set 39.99 chs., the mean of which is

40.00

Set an iron post, 3 ft. long, 1 in. diam., 4 ins. in the ground to solid rock and in a large mound of stone, for the $\frac{1}{4}$ sec. cor., with brass cap marked.

S 13 | S 18

1929

from which

A pinon, 10 ins. diam., bears N. 31° 00' E., 113 lks. dist., marked $\frac{1}{4}$ S 18 BT.

A pinon, 13 ins. diam., bears S. 12° 45' W., 113 lks. dist., marked $\frac{1}{4}$ S 13 BT.

43.19

Descend 500 ft. over NW. slope to sec. cor. Barbed wire fence, bears N. 41° W., and S. 41° E., the land on the west side of this fence is known as Slickhorn Pasture

Diff. bet. meas. of 80.00 chs. by two sets of chainmen is 2 lks., position of middle point by 1st set, 80.01 chs. by 2nd set, 79.99 chs., the mean of which is

80.00

Set an iron post, 3 ft. long, 2 ins. diam., 7 ins. in the ground to solid rock, and supported by mound of stone to the top, for the corner of secs. 7, 12, 13, and 18, with brass cap marked

T39S
R16E R17E
S12 | S 7
S13 | S18
1929

from which

A pinon, 3 ins. diam., bears N. 45° 30' E., 29 lks. dist., marked BT.

A pinon, 9 ins. diam., bears S. 89° 00' E., 32 lks. dist., marked T39S R17E S 18 BT.

A pinon, 7 ins. diam., bears S. 53° 30' W., 27 lks. dist., marked T39S R16E S13 BT.

A pinon, 3 ins. diam., bears N. 89° 30' W., 135 lks. dist., marked BT.

Land, hilly and broken mesa; general SW. drainage. Soil, sandy and rocky loam of sandstone formation; 3rd rate.

Timber, juniper and pinon.

Undergrowth, blackbrush, yellow top, mountain rush and native grasses.

Fair grazing.

North, bet. secs. 7 and 12.

Over broken land, through scattering timber and undergrowth.

Chains

- .30 South rim of canyon, bears NE. and SW.; descend
- 1.85 Bottom of canyon, draining SW. ; ascend broken slope
- 5.30 North rim of canyon; bears NE. and SW.; gradually ascend
- 19.50 Ridge, 95 ft. above sec. cor., bears E. and W.; descend NW. slope, 65 ft. to 1/4 sec. cor.
- 32.10 South rim of canyon bears NW. and SE.
- 36.90 Bottom of canyon drains NW.; ascend
- 39.85 North rim of canyon, bears NW. and SE.
 Diff. bet. meas. of 40.00 chs. by two sets of chainmen is 2 lks., position of middle point
 by 1st set 40.01 chs.
 by 2nd set 39.99 chs., the mean of which is
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in large mound of stone on solid rock, for the 1/4 sec. cor., with brass cap marked

S12 | S7

1929

from which

A pinon, 3 ins. diam., bears N.15°30'W., 84 lks. dist., marked BT.

A pinon, 6 ins. diam., bears S.85°00'E., 61 lks. dist., marked S 7 BT.

- 42.00 Spur, projects W.; gradually descend
- 47.40 South rim of canyon, bears NE. and SW.
- 50.20 Bottom of canyon, drains SW.; ascend
- 51.80 North rim of canyon, bears NE. and SW.; gradually ascend SW. slope.
- 68.20 Ridge, 75 ft. above 1/4 sec. cor., bears E. and W., descend 55 ft. over NW. slope.
 Diff. bet. meas. of 80.00 chs. by two sets of chainmen is nothing
- 80.00 Set an iron post, 5 ft. long, 2 ins. diam., 30 ins. in large mound of stone on solid rock, for the corner of secs. 1, 6, 7, and 12, with brass cap marked

T39S
R18E R17E

S1 | S6

S12 | S7

1929

from which

A pinon, 5 ins. diam., bears N.41°30'E., 138 lks. dist., marked T39S R17E S 6 BT.

A pinon, 6 ins. diam., bears S.52°30'W., 133 lks. dist., marked T39S R18E S 12 BT.

RANGE LINE, BET. Rs. 16 AND 17 E., THROUGH T. 39 S.

Chains

A pinon, 9 ins. diam., bears S.89°45'E., 137 lks. dist., marked T39S R17E S7 BT.

A pinon, 4 ins. diam., bears N.27°00'W., 112 lks. dist., marked S1 BT

Land, rolling and broken bench; drainage SW.
Soil, shallow sandy loam and rocky of sandstone formation; 4th rate.
Timber, juniper and pinon.
Undergrowth, blackbrush, mountain rush and yellow top.
Fair grazing.

North bet. secs. 1 and 6.

Descend NW. slope over broken land, through scattering timber, and dense undergrowth.

- 2.80 Small draw, drains NW.; continue descent
 - 19.20 South rim of canyon, bears E. and W.; descend 100 ft. below cor.
 - 25.00 Bottom of canyon, drains W.; ascend 75 ft. to spur.
 - 29.60 North rim of canyon, bears E. and W.
 - 37.80 Low spur, projects W.; gradually descend 10 ft.
- Diff. bet. meas. of 40.00 chs. by two sets of chainmen is nothing
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in large mound of stone on solid rock, for the sec. cor., with brass cap marked

S 1 | S 6
1929

from which

A pinon, 8 ins. diam., bears N.48°00'E., 124 lks. dist., marked S 6 BT.

A pinon, 4 ins. diam., bears N.76°00'W., 133 lks. dist., marked S 1 BT.

- 42.00 Draw, drains SW.; ascend gradual SW. slope through scattering timber and undergrowth, 20 ft. to
 - 49.00 Ridge, bears NE. and SW; gradual descent over barren NW. slope, 35 ft. to sec. cor.
 - 57.70 Small draw, drains NW.
 - 72.00 Trail, bears SE. to Johns Canyon, and NW. to Grand Gulch.
 - 79.90 Very small draw, drains NW.
- Diff. bet. meas. of 30.00 chs. by two sets of chainmen is nothing.
- 80.00 Set an iron post, 3 ft. long 3 ins. in diam., 29 ins. in the ground and surrounded by mound of stone, for the corner of Tps. 38 and 39 S., Rs. 16 and 17 E., with brass cap marked

Chains

T38S	
R16E	R17E
S36	S31
S1	S6
T39S	
1929	

from which

A pinon, 5 ins. diam., bears N.18°15'E., 199 lks. dist., marked T38S R17E S31 BT.

A pinon, 5 ins. diam., bears S.78°00'E., 180 lks. dist., marked BT. To scrubby for other markings.

A pinon, 3 ins. diam., bears S.28°30'W., 212 lks. dist., marked BT.

A juniper, 5 ins. diam., bears N.54°45'W., 315 lks. dist., marked BT.

Land, rolling bench; drainage SW on S. $\frac{1}{2}$ mile and NW on N $\frac{1}{2}$ mile.

Soil, sandy loam and rocky of sandstone formation; 3rd rate.

Timber, scattered juniper and pinon.

Undergrowth, black brush, mountain rush, yellow top and grass.

Fair grazing.

RANGE LINE, 'BET. Rs. 16 and 17 E., THROUGH T. 39 S.

From the cor. of Tps. 38 and 39 S., Rs. 16 and 17 E.

North, bet. secs. 31 and 36.

Over broken bench land through dense undergrowth and scattering timber.

9.60 Ridge, bears NW. and SE.; descend NW. slope through medium timber.

27.90 Rim of canyon, bears NW. and SE.; descend over broken surface rock ledges.

34.80 Surface rock spur, projects W.

36.80 Bottom of canyon, and small stream of clear water, course NW.; 320 ft. below tp. cor.; ascend SW. slope over broken sandstone, 20 ft.

Diff. bet. meas. of 40.00 chs., by two sets of chainmen is 4 lks., position of middle point

by 1st set 40.02 chs.

by 2nd set 39.98 chs.; the mean of which is

40.00 Set an iron post, 3 ft. long, 1 in. diam., 23 ins. in the ground to solid rock, and surrounded in mound of stone for the $\frac{1}{4}$ sec. cor., with brass cap marked

S36	S31
1929	

from which

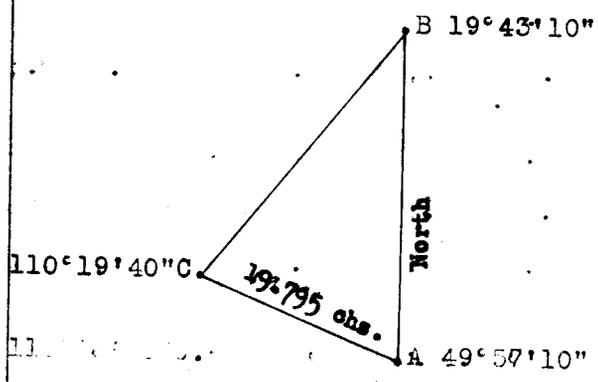
RAILROAD LINE, BET. RS. 16 and 17 E., THROUGH T. 38 S.

Chains

A juniper, 12 ins. diam., bears S.15°30'E., 93 lks. dist., marked $\frac{1}{2}$ S 31 BT.

A juniper, 8 ins. diam., bears N.36°45'W., 70 lks. dist., marked $\frac{1}{2}$ S 36 BT.

The line to the north ascends over steep sandstone walls and chaining is impracticable, therefore, I return to a point at 9.44 chs. on this line in order to obtain a suitable base, and triangulate as follows: Designate the 9.44 chs. point as "A" and set flag "B" on line north; point "C" is taken northwesterly from A; the mean distance from A to C is 19.795 chs., Vertical angle A to B is by 1st set chainmen 19.795 chs. minus 1° by 2nd set chainmen 19.795 chs.



All three angles by three repetitions, with no closing error.

Distance on line-----	9.44 chs.
Distance by triangulation-----	35.21 chs.
Distance to B-----	34.47 chs.

- 55.10 Approximate dist: N. rim of canyon, bears N.W. and S.E. 240 ft. above sec. cor.
- 64.45 To point B, thence over broken mesa land, through scattering timber and brush.
- 72.50 Sandy spur, projects NW.; descend S.E. slope over broken surface rock and ledges, 80 ft.
- 77.90 Draw, drains NW.; ascend 80 ft.
- Diff. bet. meas. of 80.00 chs. by two sets of chainmen is nothing
- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in mound of stone, on solid rock for the cor. of secs. 25, 31 and 36, with brass cap marked

T38S
R16E R17E
S25 | S30

S36 | S31
1929

from which

A pinon, 3 ins. diam., bears N.49°45'E., 33 lks. dist., marked BT.

A pinon, 3 ins. diam., bears S.59°45'W., 45 lks. dist., marked BT.

A pinon, 8 ins. diam., bears N.56°15'W., 62 lks. dist., marked T38S R16E S25 BT.

Chains

No other suitable bearing tree available.

Land, broken, rocky bench land, general drainage NW.
 Soil, shallow sandy loam and rocky of sandstone formation;
 2nd rate.
 Timber, juniper and pinon.
 Undergrowth, black brush, yellow top, service berry brush
 and grass.
 Poor grazing.

North bet. secs. 25 and 30.

Gradually ascend over mesa land thorough scattering timber
 and undergrowth.

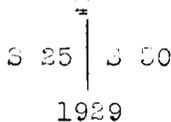
19.00 Ridge, bears E. and W., 45 ft. above sec. cor.; descend
 gradual NW. slope.

30.00 Draw, drains NW.; gradually ascend.

38.00 Ridge, bears E. and W.; thence over nearly level bench.

Diff. bet. meas. of 40.00 chs. by two sets of chainmen is
 nothing.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 3 ins. in
 the ground to solid rock, and surrounded by mound of stone
 to the top, for the 1/4 sec. cor., with brass cap marked



from which

A pinon, 10 ins. diam., bears S.74°00'W., 21 lks.
 dist., marked S 25 BT.

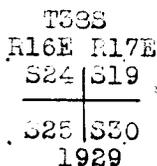
A pinon, 3 ins. diam., bears S.81°30'E., 184 lks.
 dist., marked S 30 BT.
 1/4 ft. below 1/4 sec. cor.

50.00 Draw, drains NW.; gradually ascend 25 ft.

70.00 Low sandstone spur, projects SW.; descend NW. slope 120
 ft. to sec. cor.

Diff. bet. meas. of 80.00 chs. by two sets of chainmen is
 1 lk., position of middle point
 by 1st set 80.005 chs.
 by 2nd set 79.995 chs., the mean of which is

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 3 ins. in
 the ground to solid rock and in a large mound of stone,
 for the corner of secs. 19, 24, 25 and 30, with brass cap
 marked



from which

A pinon, 3 ins. diam., bears N.47°30'E., 133 lks.
 dist., marked T338 R17E S19 BT.

... 17.34 THROUGH T. 38 S.

11.30-01 A pinon, 10 ins. diam., bears S. 50° 00' E., 35 lks. dist., marked T385 R17 S30 BT.

27.40 A pinon, 8 ins. diam., bears S. 57° 00' W., 84 lks. dist., marked T385 R16E S25 BT.

58.10 A pinon, 3 ins. diam., bears N. 50° 00' W., 95 lks. dist., marked BT.

Land, rolling and broken mesa.
Soil, shallow sandy clay loam and rocky of sandstone formation; 4th rate.
Timber, juniper and pinon.
Undergrowth, buck, black, yellow top and sage brush.
Poor grazing.

North bet. secs. 19 and 24.

Over rolling bench land, through scattering timber and undergrowth.

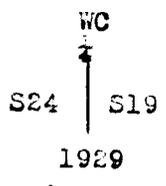
22.68 Set flag for future reference; begin descent over NW slope.

29.30 South rim of Grand Gulch; bears NE. and SW.; descend into canyon.

35.50 Bottom of Grand Gulch, 220 ft. below sec. cor., drains SW.; ascend 30 ft.

Diff. bet. meas. of 37.34 chs., by two sets of chainmen, is nothing.

37.34 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the witness sec. cor., with brass cap marked



from which

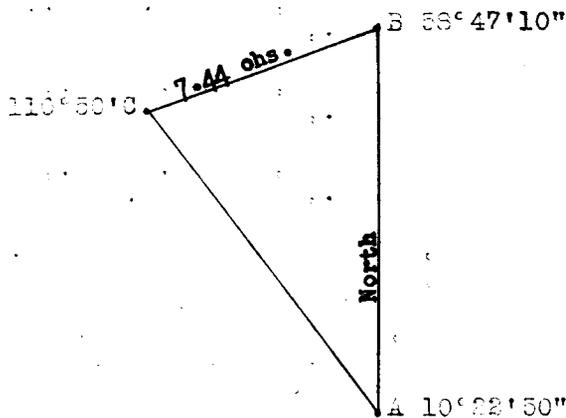
A cottonwood, 20 ins. in diam., bears S. 69° 30' E., 219 lks. dist., marked WC3 28 19 BT.

A cottonwood, 24 ins. diam., bears S. 21° 00' W., 231 lks. dist., marked WC3 28 24 BT.

40.00 Point for the sec. cor., falls on sloping sandstone wall of canyon, where it is impracticable to set cor. The line north ascends over sandstone rims and wall of canyon, and chaining is impracticable, therefore to determine the distance I triangulate as follows: Return to my station at 22.68 chs., which I designate "A" and set flag "B" on line to the north; point "C" is taken southwesterly from B; the mean distance between B. and C by two sets of chainmen is 7.44 chs. Vertical angle from A to B is plus: 4°.

Land, rolling and broken mesa. Soil, shallow sandy clay loam and rocky of sandstone formation; 4th rate. Timber, juniper and pinon. Undergrowth, buck, black, yellow top and sage brush. Poor grazing.

Chains.



All angles by three repetitions with no closing error.
 Distance on line----- 22.69 chs.
 Distance by triangulation----- 22.59 chs.
 Distance to "B"----- 31.27 chs.

- 4.10 A roadward distance: top of North Rim of Grand Gulch, corners 22. and 23.; ascend over broken bench land. 200 ft. above W.C. sec. cor.
- 4.11 Point on top of spur, projecting E.; gradually ascend over north SE. slope, 400 ft.

Diff. bet. obs. of 10.09 chs. by two sets of chainmen is nothing.

Set an iron rod, 4 ft. long, 2 ins. diam., 12 ins. in the ground to split rock, and in a large mound of stone for the corner of secs. 17, 18, 19, and 24, with brass ornamented

R38S	
119E	R17E
313	318

384	319
1989	

from which

A iron, 3 ins. diam., bears N.89°45'E., 23 lks. Dist., marked BT.

A iron, 3 ins. diam., bears S.70°50'W., 93 lks. Dist., marked BT.

A iron, 3 ins. diam., bears S.4°00'W., 130 lks. Dist., marked W.38 R.16 S.24 BT.

A iron, 3 ins. diam., bears E.13°15'W., 904 lks. Dist., marked W.38 R.16 S.18 BT.

land, by low bench land, and broken breaks of canyon. Soil, sandy clay loam and rocky of sandstone formation; low rate.

Timber, juniper and aspen, with a few cottonwoods along Grand Gulch.

and brush, buck, rabbit, black, yellow top, brush. No grain.

North bet. secs. 18 and 19.

ascend gradual SE. slope over broken bench land, through scattering timber and undergrowth, 15 ft.

RANGE LINE, BET. Rs. 16 and 17 E., THROUGH T. 38 S.,

Chains

6.30 Ridge, bears NE. and SW.; descend NW. slope through dense juniper, 35 ft.

27.40 Draw, drains NW.; ascend 45 ft. to 2 sec. cor.

32.10 Sandy spur, projects W.

34.00 Shallow drain, course NW.

Diff. bet. meas. of 40.00 chs. by two sets of chainmen is nothing.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 4 ins. in the ground to solid rock and in a large mound of stone, for the 2 sec. cor., with brass cap marked

S13	S18
-----	-----

1929

from which

A pinon, 3 ins. diam., bears N.43°15'W., 17 lks. dist., marked BT.

A pinon, 3 ins. diam., bears N.43°45'E., 27 lks. dist., marked BT.

15 ft. above 2 sec. cor.

41.60 Low sandy spur, projects NW.; descend along NW. slope through medium growth of timber and undergrowth.

58.70 Old Mormon Road, from Escalante to Bluff, Utah, bears E. and W.

76.00 Low spur, projects W.

79.95 Small drain, course W., 30 ft. below sand spur.

Diff. bet. meas. of 80.00 chs. by two sets of chainmen is 2 lks., position of middle point
by 1st set 80.01 chs.
by 2nd set 79.99 chs., mean of which is

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 14 ins. in the ground to solid rock, and in a large mound of stone, for the cor. of secs. 7, 12, 13, and 18, with brass cap marked

T38S	
R16E	R17E
S12	S7

S13	S18
-----	-----

1929

from which

A pinon, 3 ins. diam., bears N.31°30'E., 166 lks. dist., marked T38 S R17E S 7 BT.

A pinon, 3 ins. diam., bears S.18°15'E., 38 lks. dist., marked BT.

A juniper, 3 ins. diam., bears S.25°45'W., 128 lks. dist., marked BT.

A pinon, 7 ins. diam., bears N.47°00'W., 23 lks. dist., marked T38S R16E S12 BT.

Chains

Land, rolling and broken bench; general NW. drainage.
Soil, sandy loam and rocky of sandstone formation; 4th rate.
Timber, medium growth of pinon and juniper.
Undergrowth, black brush, yellow top, mountain rush and grass.
Fair grazing.

North, bet. secs. 7 and 12.

Gradually descend along general NW. slope over rolling bench land, through scattering timber and dense short undergrowth, 15 ft. to

14.60 Draw, drains NW.; ascend 25 ft.

25.00 Low sandy spur, projects W.; descend over broken surface-rock, 40 ft.

30.00 Small water course, drains NW.; ascend 25 ft.

39.95 Sandstone spur, projects W.

Diff. bet. meas. of 40.00 chs., by two sets of chainmen is 2 lks., position of middle point
by 1st set 40.01 chs.
by 2nd set 39.99 chs., the mean of which is

40.00 Set an iron post, 3 ft. long, 1/2 ins. diam., 3 ins. in the ground to solid rock, and in a mound of stone for the sec. cor., with brass cap marked

S12 | S7

1929

from which

A pinon, 8 ins. diam., bears S.21°15'W., 75 lks. dist., marked S 12 BT.

A pinon, 3 ins. diam., bears S.34°30'E., 130 lks. dist., marked BT

42.50 Large draw, drains SW.; ascend gentle SE. slope, 100 ft. to sec. cor.

67.20 Enter heavy timber bears NE. and SW.; thence over broken mesa top.

79.20 Small draw, drains SW.

Diff. bet. meas. of 80.00 chs. by two sets of chainmen is nothing

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground to solid rock and in a large mound of stone for the corner of secs. 1, 6, 7, and 12, with brass cap marked

T38S

R16E R17E

S1 | S6

S12 | S7

1929

from which

SECTION LINE, Rgs. 16 and 17 E., THROUGH T. 38 S.

A pinon, 8 ins. diam., bears N.72°00'E., 69 lks. dist., marked T38S R17E S6 BT.

A pinon, 7 ins. diam., bears S.72°15'E., 116 lks. dist., marked T38S R17E S7 BT.

A juniper, 7 ins. diam., bears S.43°30'W., 122 lks. dist., marked T38S R16E S12 BT.

A pinon, 12 ins. diam., bears N.34°30'W., 53 lks. dist., marked T38S R16E S1 BT.

Land, rolling and broken bench; general SW. drainage.
Soil, shallow sandy loam and rocky of sandstone formation, 4th rate.
Timber, scattered to dense growth of juniper and pinon.
Undergrowth, black and sage brush, yellow top and mountain rush.
Fair grazing.

North, bet. secs. 1 and 6.

Over broken mesa top through dense timber and scattering undergrowth.

1.00 Draw, (same as at 79.20 chs., bet. secs. 7 and 12) drains SE.; ascend 30 ft.

14.60 Low sandstone spur, projects W.; gradually descend, 35 ft.

Diff. bet. meas. of 40.00 chs. by two sets of chainmen is 2 lks., position of middle point.
by 1st set 40.01 chs.
by 2nd set 39.99 chs., the mean of which is

40.00 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the sec. cor., with brass cap marked

S 1 | S 6

1929

from which

A juniper, 3 ins. diam., bears N.29°45'W., 53 lks. dist., marked BT.

A pinon, 10 ins. diam., bears S.57°00'E., 193 lks. dist., marked S 6 BT.

47.80 Small draw, drains NW. 10 ft. below sec. cor.; ascend 90 ft. to sec. cor.

57.50 Road, Blanding, Utah to Collins Cave, bears NE. and SW.

75.80 Foot of steep rocky slope, bears NE. and SW.; ascend SW. slope.

Diff. bet. meas. of 80.00 chs. by two sets of chainmen is 1 lk., position of middle point.
by 1st set 80.005 chs.
by 2nd set 79.995 chs., the mean of which is

80.00 On SW. slope.
Set an iron post, 3 ft. long, 3 ins. diam., 20 ins. in the ground, to solid rock and in large mound of stone, for the cor. of Tps. 37 and 38 S., Rgs. 16 and 17 E., with brass cap marked

Chains

T37S
R16E R17E
S36 | S31
S1 | S6
T38S
1929

from which

A juniper, 4 ins. diam., bears N.58°00'E., 29 lks. dist., marked S31 BT.

A pinon, 7 ins. diam., bears S.33°15'E., 107 lks. dist., marked T38S R17E S6 BT.

A pinon, 5 ins. diam., bears S.32°30'W., 99 lks. dist., marked BT.

A pinon, 5 ins. diam., bears E.54°45'W., 111 lks. dist., marked BT.

Land, broken bench; general drainage NW.
Soil, sandy loam and rocky of sandstone formation; 3rd rate.
Timber, juniper and pinon.
Undergrowth, black brush and scattered sagebrush.
Fair grazing.

RANGE LINE, BET. Rs. 16 and 17 E., THROUGH T. 37 S.

From the cor. of Tps. 37 and 38 S., Rs. 16 and 17 E. North, bet. secs. 31 and 36.

ascend abruptly over steep, rocky SW. slope, rough mountainous land, through scattering timber and undergrowth.

17.00 Enter dense timber, bears NE. and SW.

33.00 Top of slope, and edge of mesa, 300 ft. above tp. cor., bears NE. and SW.; thence over mesa land through dense timber.

Diff. bet. meas. of 40.00 chs. by two sets of chainmen is 7 lks.; position of middle point
by 1st set, 40.035 chs.
by 2nd set 39.965 chs., the mean of which is

40.00 Set an iron post, 5 ft. long, 1 in. diam., 30 ins. in the ground, for the $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$
S36 | S31
1929

from which

A juniper, 5 ins. diam., bears S.52°45'E., 20 lks. dist., marked $\frac{1}{4}$ S 31 BT.

A pinon, 5 ins. diam., bears N.52°15'W., 52 lks. dist., marked $\frac{1}{4}$ S 36 BT.

55.90 Begin descent over gentle NW. slope, 35 ft. sec. cor.

58.40 Water course, drains W.

RANGE LINE, BET. Rs. 16 and 17 E., THROUGH T.37 S.

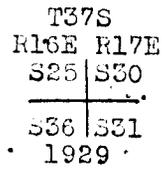
Chains
74.00

Small draw, drains W.

Diff. bet. meas. of 80.00 chs. by two sets of chainmen is 1 lk.; position of middle point
by 1st set, 80.005 chs.
by 2nd set, 79.995 chs., the mean of which is

80.00

Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the corner of secs. 25, 30, 31, and 36, with brass cap marked



from which

A pinon, 9 ins. diam., bears N.36°00'E., 30 lks. dist., marked T37S R17E S30 BT.

A pinon, 12 ins. diam., bears S.30°30'E., 72 lks. dist., marked T37S R17E S31 BT.

A pinon, 8 ins. diam., bears S.32°45'E., 69 lks. dist., marked T37S R16E S36 BT.

A juniper, 10 ins. diam., bears N.52°00'E., 77 lks. dist., marked T37S R16E S25 BT.

Land, rough mountains; SW. slope on S. 33.00 chs.; mesa land on remainder of mile; drainage SW. and NW.
Soil, sandy clay loam and rocky of sandstone formation; 4th rate.

Timber, dense juniper and pinon.

Undergrowth, sagebrush.

Fair grazing.

North, bet. secs. 25 and 30.

Along a NW. slope over mesa land, through dense timber and scattering undergrowth.

4.30

Draw, drains W.

9.30

Low sandy spur, projects W.

14.00

Enter sagebrush opening, bears E. and W.

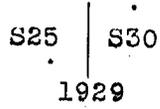
18.00

Leave sagebrush opening, reenter dense timber, bearing E. and W.

Diff. bet. meas. of 40.00 chs. by two sets of chainmen is 2 lks. position of middle point
by 1st set, 40.01 chs.
by 2nd set, 39.99 chs., the mean of which is

40.00

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the sec. cor., with brass cap marked



from which

RANGE LINE, BET. Rs. 16 and 17 E., THROUGH T. 37 S.

Chains

A juniper, 10 ins. diam., bears S.28°15'E., 21 lks. dist., marked S 30 BT.

A pinon, 5 ins. diam., bears N.79°15'W., 112 lks. dist., marked S 25 BT.

Cor. stands on NW. slope 55 ft. below sec. cor.

42.10 Ridge, bears NE. and SW.; descend 40 ft. to draw at 69.20

66.70 Draw, drains NW.

68.30 Low spur, projects W.

69.20 Draw, drains NW.; ascend 5 ft.

Diff. bet. meas. of 80.00 chs. by two sets of chainmen is nothing.

30.00 Set an iron post, 5 ft. long, 2 ins. diam., 10 ins. in the ground to solid rock and in a large mound of stone, for the cor. of secs. 19, 24, 25 and 30, with brass cap marked

T37S	
R16E	R17E
S24	S19
<hr/>	
S25	S30
1929	

from which

A juniper, 8 ins. diam., bears N.32°15'E., 60 lks. dist., marked T37S R17E S19 BT.

A pinon, 15 ins. diam., bears S.83°45'E., 82 lks. dist., marked T37S R17E S30 BT.

A pinon, 16 ins. diam., bears S.65°15'W., 27 lks. dist., marked T37S R16E S25 BT.

A juniper, 6 ins. diam., bears N.83°15'W., 44 lks. dist., marked T37S R16E S24 BT.

Land, rolling and broken mesa top; drainage NW. Soil, shallow sandy loam and rocky of sandstone formation 4th rate.

Timber, juniper and piñon.

Undergrowth, sagebrush, yellow top and grass.

Fair grazing.

North bet. secs. 19 and 24.

14.00 Over rolling mesa, through dense timber and undergrowth. Gradually descend 50 ft. to sec. cor. Draw, drains W.

16.90 Low spur, projects NW.; descend gentle NW. slope through dense timber.

25.80 An old Indian hogan, bears E., 2.00 chs. dist.

36.20 Draw, drains NW.

38.10 Low spur, projects W.

39.60 A water course drains W.

Chains

Diff. bet. meas. of 40.00 chs. by two sets of chainmen is nothing.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground to solid rock and in a large mound of stone for the $\frac{1}{4}$ sec. cor., with brass cap marked

S24 | S19

1929

from which

A pinon, 5 ins. diam., bears N.69°45'E., 42 lks. dist., marked $\frac{1}{4}$ S 19 BT.

A pinon, 12 ins. diam., bears N.52°30'W., 97 lks. dist., marked $\frac{1}{4}$ S 24 BT.

Gradually ascend SW. slope.

49.80 Ridge, 55 ft. above $\frac{1}{4}$ sec. cor., bears NE. and SW.; gradual descent, 10 ft.

52.60 Draw, drains W.; thence over nearly level mesa; ascend 20 ft.

Diff. bet. meas. of 80.00 chs. by two sets of chainmen is 1 lk., position of middle point
by 1st set, 80.003 chs.
by 2nd set, 79.995 chs., the mean of which is

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 13 ins. in the ground to rock, and in a large mound of stone, for the cor. of secs. 13, 18, 19, and 24, with brass cap marked

T37S
R16E R17E
S13 | S18
S24 | S19
1929

from which

A pinon, 6 ins. diam., bears N.68°30'W., 51 lks. dist., marked T37S R17E S18 BT.

A juniper, 10 ins. diam., bears S.53°30'E., 36 lks. dist., marked T37S R17E S19BT.

A juniper, 6 ins. diam., bears S.66°00'W., 31 lks. dist., marked T37S R16E S24 BT.

A juniper, 12 ins. diam., bears N.53°00'W., 34 lks. dist., marked T37S R16E S13 BT.

Land, rolling mesa; general drainage NW.
Soil, sandy loam and rocky of sandstone formation; 3rd rate.

Timber, dense juniper and pinon.
Undergrowth, sagebrush, yellow top, and grass.
Fair grazing.

North bet. secs. 13 and 18

Chains

Over rolling land through dense timber and scattering undergrowth.

21.50 Gray sandstone rim, 35 ft. high, bears NE. and SW.; descend NW. slope over broken surfacerock.

23.90 Draw, 135 ft. below rim, drains W.

Diff. bet. meas. of 40.00 chs. by two sets of chainmen is nothing

40.00 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for the $\frac{1}{4}$ sec. cor., with brass cap marked

S13 | S18

1929

from which

A pinon, 7 ins. diam., bears N. 58° 00' W., 21 lks. dist., marked S 13 BT.

A pinon, 3 ins. diam., bears S. 75° 00' E., 31 lks. dist., marked BT.

47.80 Draw, 70 ft. below $\frac{1}{4}$ sec. cor., drains W.; ascend 20 ft.

53.90 Low spur, projects W.; descend 85 ft.

73.13 Draw, drains W.; ascend 10 ft.

Diff. bet. meas. of 80.00 chs. by two sets of chainmen is 6 lks., position of middle point
by 1st set 30.03 chs.
by 2nd set 79.97 chs., the mean of which is

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground to solid rock, and in large mound of stone, for the corner of secs. 7, 12, 13 and 18, with brass cap marked

T37S
R16E R17E
S12 | S7

S13 | S18
1929

from which

A pinon, 5 ins. diam., bears N. 30° 30' E., 57 lks. dist., marked T37S R17E S7 BT.

A juniper, 3 ins. diam., bears S. 51° 45' E., 27 lks. dist., marked S18 BT.

A pinon, 7 ins. diam., bears S. 62° 00' W., 107 lks. dist., marked T37S R16E S13 BT.

A pinon, 3 ins. diam., bears N. 73° 00' W., 100 lks. dist., marked BT.

Land, rolling and broken bench, drains NW.
Soil, sandy and rocky of sandstone formation; 3rd rate.
Timber, juniper and pinon.
Undergrowth, mountain rush, black brush and yellow top.
Fair grazing.

RANGE LINE, BET. Rs. 16 and 17 E., THROUGH T. 37 S.

Chains

North, bet. secs. 7 and 12.

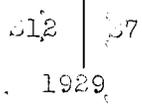
Gradually descend NW. slope over broken bench land through dense timber and scattering undergrowth.

21.55 Draw, 70 ft. below sec. cor., drains W.

26.60 Sandstone spur, projects NW.; descend NW. slope 190 ft. to 1/4 sec. cor.

Diff. bet. meas. of 40.00 chs. by two sets of chainmen is 2 lks., position of middle point by 1st set, 40.01 chs. by 2nd set, 39.99 chs., the mean of which is

40.00 Set an iron post, 3 ft. long, 1 in. diam., 13 ins. in the ground to solid rock, and in a large mound of stone, for the 1/4 sec. cor., with brass cap marked



from which

A pinon, 5 ins. diam., bears S.77°13'W., 33 lks. dist., marked S 7 BT.

A pinon, 4 ins. diam., bears N.33°09'W., 140 lks. dist., marked S 12 BT.

Continue descent over NW. slope.

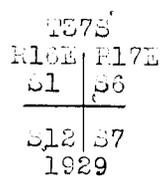
55.00 Foot of slope, 90 ft. below 1/4 sec. cor., bears N. and W.

62.15 East fork of Fry Canyon, drains N.W.; Fry Spring, good water, bears northwesterly about 2 1/2 miles N.W. and 30 ft. to sec. cor.

75.20 Draw, drains N.W.

Diff. bet. meas. of 30.00 chs. by two sets of chainmen is 2 lks., position of middle point by 1st set, 30.01 chs. by 2nd set, 29.99 chs., the mean of which is

30.00 Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, for the cor. of secs. 1, 6, 7, and 12, with brass cap marked



from which

A pinon, 14 ins. diam., bears N.72°15'E., 201 lks. dist., marked T37S R17E S6 BT.

A pinon, 12 ins. diam., bears S.71°15'E., 201 lks. dist., marked T37S R17E S7 BT.

A juniper, 5 ins. diam., bears S.33°13'W., 216 lks. dist., marked T37S R16E S12 BT.

A juniper, 5 ins. diam., bears N.61°15'W., 199 lks. dist., marked T37S R16E S1 BT.

RANGE LINE, BET. Rs. 16 and 17 E., THROUGH T. 37 S.,

Chains

Land, rolling and broken bench; drains NW. Soil, sandy and rocky of sandstone formation; 3rd rate. Timber, dense juniper and pinon. Undergrowth, buck and sage brush, and mountain bush. Fair grazing.

North bet. secs. 1 and 6

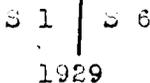
Gradually ascend over broken bench land through scattering timber and undergrowth.

15.80 Low ridge, 23 ft. above sec. cor., bears E. and W.; thence over rolling bench land; descend 33 ft.

39.00 Draw, drains W.; ascend 10 ft.

Diff. bet. meas. of 40.00 chs. by two sets of chainmen is 2 lks., position of middle point
by 1st set, 40.01 chs.
by 2nd set, 39.99 chs., the mean of which is

40.00 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in large mound of stone on solid rock, for the sec. cor., with brass cap marked



from which

A juniper, 4 ins. diam., bears N.78°00'E., 21 lks. dist., marked S 6 BT.

A juniper, 3 ins. diam., bears N.73°00'W., 49 lks. dist., marked BT.

From this point, the north edge of sandstone column, about 200 ft. high, and 75 ft. wide, bears N.55°23'W.

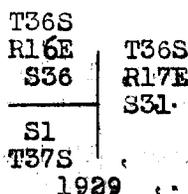
50.00 Water course, drains NW.

68.00 Low spur, projects W.; 10 ft. above sec. cor.; descend 15 ft. to sec. cor.

75.00 Draw, drains W.

Diff. bet. meas. of 30.00 chs. by two sets of chainmen is nothing.

80.00 Set an iron post, 3 ft. long, 3 ins. diam., 8 ins. in the ground to solid rock, and in a large mound of stone, for the cor. of Tps. 36 and 37 S., R. 16 E., with brass cap marked



from which

A pinon, 10 ins. diam., bears S.67°30'W., 256 lks. dist., marked T37S R16E S1 BT.

RANGE LINE, BET. Rs. 16 and 17 E., THROUGH T. 37 S.

Chains

A pinon, 7 ins. diam., bears N. 32° 45' W., 110 lbs. dist., marked T36 S R16 E S36 BT.

From this corner the north edge of sandstone column noted on line between secs. 1 and 6, bears N. 33° 33' W.

Land, rolling bench; drains NW.
Soil, sandy and rocky of sandstone formation; 2nd rate.
Timber, juniper and pinon.
Undergrowth, buck and sage brush.
Fair grazing.

EAST BOUNDARY OF T36 S., R. 16 E.

Corners on this range line will be defective in position with reference to subdivisional surveys in T. 36 S., R. 17 E., therefore, they are marked for R. 16 E., only. Also, only one set of chainmen is employed in this survey as subdivisional surveys in T. 36 S., R. 17 E., are to be closed on this boundary in conjunction with the survey thereof.

From the corner of Tps. 36 and 37 S., R. 16 E.

North, along E. bdy. of sec. 36, T. 36 S., R. 16 E.

Over broken bench land, through medium growth of timber and scattering undergrowth.

1.50 Deep draw, drains W.

21.20 Begin ascent over SW. slope.

Diff. in measurement by double chaining for 40.00 chs. was nothing.

40.00 On SW. slope, 90 ft. above draw

Set an iron post, 3 ft. long, 1 in. diam., 30 lbs. in the ground and surrounded by mound of stone for the sec. cor., with brass cap marked

S36

1929

from which

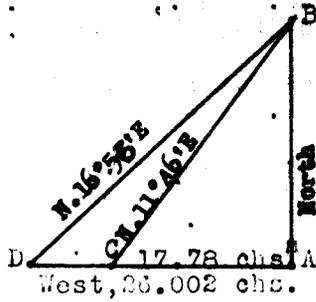
A pinon, 3 ins. diam., bears S. 34° 00' W., 140 lbs. dist., marked BT.

No other suitable accessories available.

The line to the north ascends over vertical sandstone walls, over which chaining is impracticable; being unable to secure suitable base line at this point I return to the corner of Tps. 36 and 37 S., R. 16 E., which I designate as "A" and triangulate as follows:

Set flag "B" on line north, then deflect an angle of 10° to the left and measure base line west, 17.704 chs. to point C, and 26.002 chs. to point D. The line CD bears N. 11° 48' E., and the line DB bears N. 16° 33' W. all bearing and angles determined by deflection.
Vertical angle from A to B is plus 54°.

Chains



Dist. by 1st triangulation-----	85.38 chs.
Dist. by 2nd triangulation-----	85.40 chs.
Mean distance-----	85.39 chs.
Dist. by return measurement-----	80.00 chs.

59.00 Approximate distance: Top of vertical sandstone rim, 100 ft. high, bears E. and W.; ascend very broken, rocky SW. slope; covered with large stationary boulders.

30.00 775 ft. above sec. cor. Set an iron post, 3 ft. long, 2 ins. diam., 3 ins. in the ground to solid rock, and in a large mound of stone for the corner of secs. 25 and 26, with brass cap marked

1925	1925
1925	1925
1925	1925
1925	1925
1925	1925
1925	1925

from which

A juniper, 4 ins. diam., bears S. 77° 15' W., 55 lks. dist., marked 338 BT.

A juniper, 3 ins. diam., bears S. 45° 30' W., 54 lks. dist., marked BT.

Land, rolling and broken bench and precipitous slopes of mesa; general drainage W.
Soil, sandy loam and rocky of sandstone formation; 4th rate.
Timber, juniper and pinon.
Undergrowth, mountain rush, sage and buck brush.
Poor grazing.

North along E. bdy. of sec. 25.

Ascend SW. slope of mesa, through medium growth of timber and scattering undergrowth.

5.39 Point B of triangulation, on top of ridge, bearing E. and W.; continue ascent of 15 ft. through dense timber.

21.10 Ridge, bears E. and W., descend 10 ft. to

23.00 Rim of mesa, bears NE. and SW., descend 200 ft. over broken ledges and slope to sec. cor.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground; for the sec. cor., for sec. 25 only, with brass cap marked

EAST BOUNDARY OF T. 36 S., R. 16 E.

S 25

1929

from which

A juniper, 3 ins. diam., bears N.78°00'W., 34 lks. dist., marked BT.

No other suitable accessories available.

Continue steep descent over NW. slope.

- 42.20 Red sandstone rim, bears NE. and SW; descend abruptly
- 59.65 Foot of steep descent, 550 ft. below sec. cor., bears NE. and SW.; thence over broken bench land.
- 66.46 Old Mormon road, bears NW. to Esclante and SE. to bluff, Utah.
- 80.00 On broken bench, 120 ft. below the 66.46 chs. point
Set an iron post, 3 ft. long, 1/2 ins. diam., 30 ins. in large mound of stone on solid rock, for the cor. of secs. 24 and 25, with brass cap marked

T368	T368
324	1171
325	319
1162	
1929	

from which

A pinon, 8 ins. diam., bears S.40°13'W., 21 lks. dist., marked T368 1162 325 BT.

A pinon, 10 ins. diam., bears N.62°30'W., 23 lks. dist., marked T368 1162 324 BT.

Land, rolling and broken bench and precipitous slopes; drainage SW. and NW.
Soil, sandy clay loam and rocky of sandstone formation; 4th rate.
Timber, dense juniper and pinon.
Undergrowth, black and sage brush, mountain brush and grass.
Good grazing.

North along E. bdy. of sec. 24.

Over broken land, through medium growth of timber and undergrowth.

- 8.77 Set flag designated as "A".
- 9.60 South rim of White Canyon, ledge 250 ft. high, bears NE. and SW.

The line north crosses White Canyon, with nearly vertical sandstone walls over which chaining is impracticable, therefore I return to point A at 8.77 chs. and triangulate as follows:

Set flag B on line North, point C is taken due West of A; the mean distance bet. A and C is 12.341 chs.

Chains

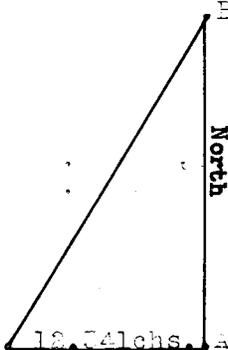
by 1st set chainmen 12.343 chs.

by 2nd set of chainmen 12.539 chs.

Vertical angle from A to B is plus 1°

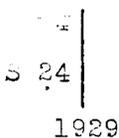
B 36°19'20"

53°40'40" C 12.34 chs. A 90°00'



All angles by three repetitions with no closing error.
 Dist. on line to A-----8.77 chs.
 Dist. by triangulation 16.79 chs.
 Distance to B-----25.56 chs.

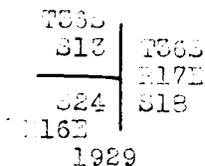
- 12.00 Approximate dist.: Bottom of White Canyon, drains NW.
- 22.00 W. rim of White Canyon, 250 ft. high, bears NE. and SW.
- 27.56 Gradually ascend over surface rock, through scattering timber. Also point B of triangulation, 23 ft. above point A.
- 31.00 Rocky sur, projects W., enter heavy timber and begin gradual descent, of 1 ft. to
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in large mound of stone on solid rock for 1 sec. cor., sec. 24 only, with brass cap marked



from which

A pinon, 7 ins. diam., bears S. 61°50' W., 49 lks. dist., marked S 24 BT. No other suitable accessories available.

- 47.00 Draw, drains NW.; ascend 30 ft. to
- 57.00 Rocky sur, projects E.; gradually descend 27 ft.
- 67.00 Draw, drains NW.; gradually ascend 13 ft.
- 77.00 Set an iron post, 3 ft. long, 3 ins. diam., 3 ins. in the ground to solid rock, and in a large mound of stone for the cor. of secs. 15 and 24, with brass cap marked



from which

A pinon, 9 ins. diam., bears S. 42°15' W., 123 lks. distance., marked T36S R16E S24 BT.
 A pinon, 3 ins. diam., bears N. 74°45' W., 45 lks. dist., marked T36S R16E S13 BT.

Chains

Land, rolling and hilly, broken by canyons; drains SW.
 Soil, sandy clay loam and rocky of sandstone formation;
 4th rate.
 Timber, juniper and pinon.
 Undergrowth, shadscale, buck brush and mountain shrub.
 Good grazing.

North along E. bdy. of sec. 13..

Over rolling and broken land, through dense brush and
 undergrowth. Gradually descend E. 20 to 1/4 sec. cor.

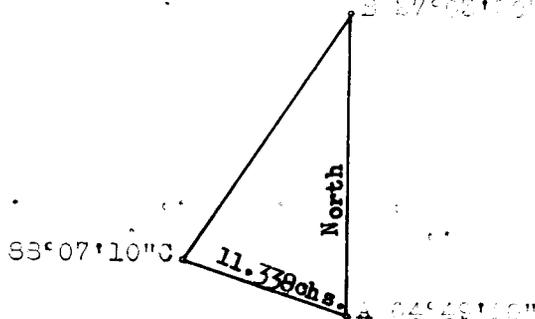
- 2.00 Low ridge, bears E. and W., gradually descend.
- 18.20 Draw, drains NW. gradually ascend
- 26.00 Low spur, projects W., gradually descend
- 33.00 Deep draw, drains NW.; ascend
- 34.10 Sandstone spur, projects W.
- 35.90 Small water course, drains SW.
- 39.90 Sandstone spur, projects NW.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., over a flat
 solid surface rock and surrounded to the top in a cap
 of stone, for the 1/4 sec. cor., for sec. 13 only, with
 brass cap marked

S15

1929

No other suitable accessories available.

- 41.50 Ledge, 150-ft. high and S. rim of box canyon, NW. cor. sec. 13.
 and SW.
 To determine distance across canyon, I triangulated as
 follows:
 Return to point at 39.93 chs., which I designate as point A, with
 flag B on line to the north; point C is taken westerly
 from A, 11,338 chs. distant by two sets of chain on.
 Vertical angle from A to B is minus 1 1/2°



All angles determined by three repetitions and the closing
 error balanced to 180° as follows:

- At point A 84°49'20"
- At point B 27°03'30"
- At point C 83°07'10"

Distance to A-----39.93 chs.
 Dist. by triangulation to B-----24.91 chs.
 Distance to B-----24.74 chs.

Chains
 52.00 Approximate distance: Box Canyon, 200 ft. deep, drains SW.
 53.00 Approximate distance: N. rim of canyon, bears NE. and SW.
 Ascend sloping sandstone ledges.
 54.74 Point B at top of white sandstone ledge, 40 ft. below sec. cor. bears NE. and SW.; continue ascent over SW. slope through dense timber.
 50.00 Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground to solid rock and in a large round of stone for the cor. of secs. 12 and 13, with brass cap marked

T36S	
312	T36S
313	R17E
R16E	S7.
	1929

from which

A pinon, 3 ins. diam., bears S. 91° W., 150 lks. dist., marked T36S R16E S13 BT.

A pinon, 3 ins. diam., bears N. 20° 15' W., 142 lks. dist., marked T36S R16E S12 BT.

Land, rough and broken mountains, draining W.
 Soil, shallow sandy loam and sandstone rock; 4th rate.
 Timber, juniper and pinon.
 Undergrowth, black brush, ooze and shade scale.
 Fair grazing.

North, along E. bdy. of sec. 13.

Gradually ascend over broken land through medium growth of timber and undergrowth, 20 ft. to

15.50 Small draw, drains SE.; ascend 70 ft. to

40.00 Over cross (+) cut in surface rock
 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in a large round of stone, for the 4 sec. cor., for sec. 12 only, with brass cap marked

4	
312	
	1929

from which

A pinon, 4 ins. diam., bears N. 60° 00' W., 96 lks. dist., marked 4 S 12 BT.

No other suitable bearing tree available.

46.00 Trail, bears SW. to White Canyon and NE. to Hideout; this is a drift trail for cattle going to the Elk Ridge summer range.

About one mile to the southwest is a watering place known locally as the "Nook". It is a dripping spring in the head of a box canyon, draining SW., and is reached from the east rim of the canyon.

48.04 The line to the north, ascends a vertical sandstone ledge

EAST BOUNDARY OF T. 36 S., R. 16 E.

121

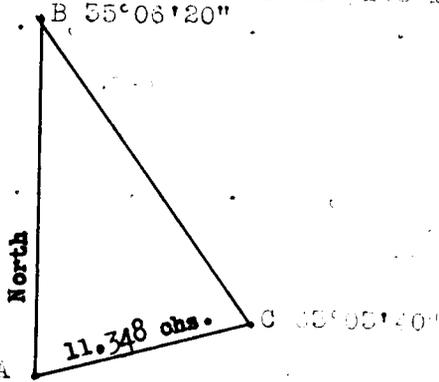
Chains about 100 ft. high, over which chaining is impracticable, therefore I triangulate as follows:

Designate this point as "A" and set flag B on line H.; C is taken northeasterly from A: the mean distance bet. A and C is 11.348 chs.

by 1st set of chainmen 11.35 chs.

by 2nd set of chainmen 11.346 chs.

Vertical angle from A to B is plus 17' 38"



81° 50'

All angles by three repetitions and reduced to 150° as follows:

- At point A 81° 50'
- At point B 55° 08' 20"
- At point C 43° 03' 40"

Distance on line to point A ----- 43.04 chs.
 Distance by triangulation ----- 17.59 chs.
 Distance to point ----- 35.35 chs.

- 50.00 Base of rocky south slope, bears N. and S.
- 63.00 Vertical ledge, 325 ft. above the 43.04 chs. point, bears NE. and SW.; thence along a broken S. slope, asc. 127 ft.
- 80.00 Point for the cor. of secs. 1 and 12, falls on sloping surface rock, where it is impracticable to set a permanent cor. witness corner established 1.75 chs. North.

Land, rough and broken.
 Soil, sandy loam and rocky of sandstone formation; 4th rate.
 Timber, juniper and pines.
 Undergrowth, shadscale, black brush, and mountain rush.
 Fair grazing.

North along E. bdy. of sec. 1

Over broken land through scattering timber and undergrowth; ascend SE. slope.

- 1.78 On edge of vertical ledge, bearing NE. and SW. Set an iron post, 3 ft. long, 2 ins. diam., 13 ins. in the ground to solid rock, and in a large mound of stone for the witness sec. cor., for secs. 1 and 12, with brass cap marked

T36S		T36S
S1		R17E
S12		S6
R16E		
		WC
		1929

deposit a sandstone, 10x9x8 ins. marked with (+) at base of post

- Chains
26.30 Ridge, 390 ft. above witness sec. cor., bears NE. and SW.; continue ascent.
- 30.24 Intersect a point on the tangent line established during the survey of the 7th Standard Parallel South, as established under Group 182, Utah. In order to verify the range line, I backsight along the line to the south, and deflect an angle of $89^{\circ}56'$ to the left, the line of sight thus determined intersects the tangent line at the standard cor. of secs. 35 and 36, T. 35 S., R. 17 E., and indicates that the survey from the south has been carried forward satisfactorily.
- 39.46 Intersect the Seventh Standard Parallel South.
Set an iron post, 3 ft. long, 3 ins. diam., 30 ins. in the ground, for the closing corner of Tps. 36 S., Rs. 16 and 17 E., with brass cap marked.

T35S R17E

331

31	36
R16E	R17E

T36S

CC

1929

from which:

A pinon, 3 ins. diam., bears $S.36^{\circ}15'E.$, 85 lks. dist., marked T36S R17E 36 CC BT.

A juniper, 3 ins. diam., bears $S.29^{\circ}45'W.$, 36 lks. dist., marked BT.

From this corner, the standard 1/4 sec. cor., sec. 31, T. 36 S., R. 17 E., bears East, 5.37 chs. dist.; and is an iron post, 1 in. diam., firmly set, and marked and witnessed as described in the official record.

Land, rough and broken.

Soil, shallow sandy loam and rocky; 4th rate.

Timber, scattering juniper and pinon.

Undergrowth, shadscale and mountain rush.

Fair grazing.

GENERAL DESCRIPTION

The land passed over by the range line, between ranges 16 and 17 east, through townships 36, 37, 38, and 39 south, is rough and broken mesa or bench land, cut by deep canyons with vertical sandstone walls and precipitous slopes. The general drainage of the land in townships 38 and 39 south is into the San Juan River to the southwest; in townships 36 and 37 south into Fry and White Canyons, tributaries of the Colorado River to the northwest.

There is a scattering to dense growth of pinon and juniper timber of no commercial value; and a medium growth of shadscale, mountain rush, sage, buck and black brush, with a scattering growth of native grasses, which affords fair grazing for livestock, over the entire range line.

The soil is a loose shallow sandy loam, on a sandstone bedrock, with much exposed sandstone surface rock. Erosion is very noticeable along the line. There is no soil suitable for farming.

The only industry is stock raising. The land is used for fall, winter and spring grazing. The carrying capacity of the range is very small on account of the shortage of

water and the continuous overgrazing.

There were no settlers in the vicinity of the line at the time of the survey. The only means of transportation is by pack animals.

There were no surface indications of coal, oil, or other minerals noted during the survey.

The nearest post office and supply point is Blanding, Utah, approximately 60 miles to the east.

NAMES

Volume

#

R0544

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Original

FIELD NOTES

of the

Survey of

a

Portion of the

Subdivision

of

Township 36 South, Range 20 East

Of the Salt Lake Meridian,

In the State of Utah

EXECUTED BY

Dell Cazier, Cadastral Surveyor

Vern E. Lane, Cadastral Surveyor (Chief of Party)

Under special instructions dated April 2, 1957, which provided

for the surveys included under Group No. 406, approved April 10, 1957

and assignment instructions dated June 14, 1957.

Survey commenced August 2, 1957

Survey completed August 5, 1957

INDEX DIAGRAM

Township 36 South , Range 20 East

6	5	4	3	2	1
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18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	2 36

Township 36 South, Range 20 East

Chains

The south boundary was surveyed by A. Nelson and J. C. Terry and its record appears in the official record of the 1919 survey of T. 37 S., R. 20 E. The east boundary was surveyed by C. F. Moore and its record appears in the official record of the 1919 survey of the Range Line between Rs. 20 and 21 E., T. 36 S.

The following field notes are those of the survey of the west and north boundaries of sec. 36 deemed sufficient in extent to facilitate development of the natural resources and to mark the boundaries.

This survey was executed with a W. and L. E. Gurley transit, No. 541326, constructed in accordance with the standard instrumental specifications of the Bureau of Land Management. The instrument was in good condition prior to the beginning of the survey, and was maintained in proper adjustment throughout the progress of the survey.

Corners on the east-west line were set on the true latitudinal curve. Lines connecting previously established corners were run by random and true method, but for simplification of the record the random lines are omitted from the field notes. In accordance with the special instructions, all subdivisional corners established are calculated to be at the position they would occupy if the entire township were subdivided.

Measurements herein contained were made with a narrow steel tape, 8 chains in length, graduated every link for the first 100 links and thereafter at intervals of 10 links. The tape was tested by comparison with a 1 chain standard steel tape and found to be correct. Measurements were made on the slope with the vertical angle of each interval ascertained by a clinometer in good adjustment; the field notes show horizontal equivalents only.

All lines of this survey were run by direct method where the lines were accessible; lines inaccessible were run by traverse or triangulation method. The details of such traverse or triangulation have been checked and verified, and in order to simplify the record the diagrams and reductions are omitted from these field notes.

The direction of the lines of the survey were determined by reference to true meridians established on line by hour angle observations on Polaris or altitude observations on the sun. The lines were carried forward by sustained angulation.

The geographic position for the SE. cor. of T. 36 S., R. 20 E., is at latitude $37^{\circ} 36' 24''$ N. and longitude $109^{\circ} 39' 23''$ W., as determined from U. S. G. S. quadrangle sheets.

The magnetic declination was read at a number of stations during the survey and the average of these readings was found to be 15° E.

Section 36, T. 36 S., R. 20 E.

Chains

Beginning at the cor. of secs. 1, 2, 35 and 36, on the S. bdy. of the Tp., which is mkd. by an iron post, 1 ins. diam., firmly set, mkd. and witnessed as described in the official record of the 1928 survey of the S. bdy. of T. 37 S., R. 20 E.

N. 0° 01' W., bet. secs. 35 and 36.

Over broken land, along the E. slope of Comb Ridge.

Asc. 160 ft. over nearly vertical SW. facing ledge.

12.50 Rim of Comb Ridge; desc. 200 ft. over broken ledges.

31.90 Point selected for the 1/4 witness cor. of secs. 35 and 36.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 6 ins. in the ground and in a mound of stone, 3 1/2 ft. base to top of post, with brass cap mkd.

T36S R20E
W C
1/4
S35 | S36
1957

40.00 True point for the 1/4 sec. cor. of secs. 35 and 36 falls on steep E. slope near head of wash, where the monument cannot be perpetuated.

Asc. 80 ft. along steep E. slope.

50.00 Spur, sloping E.; desc. 160 ft. over broken N. facing ledges.

61.50 Branch of Whisker's Draw, 20 lks. wide, 2 ft. deep, drains E.; asc. 240 ft. over broken SE. facing ledges.

80.00 Point for the cor. of secs. 25, 26, 35 and 36.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., on solid sandstone and supported in a mound of stone, 3 1/2 ft. base to top of post, with brass cap mkd.

T36S R20E
S26 | S25
S35 | S36
1957

Land, broken.

Soil, sandy, with large areas of exposed sandstone.

Timber, moderate juniper and pinion; undergrowth, scattered artemesia.

From the cor. of secs. 25, 30, 31 and 36, on the E. bdy. of the Tp. which is mkd. by an iron post, 2 ins. diam., firmly set, mkd. and witnessed as described in the official record of the 1927 survey of the Range Line bet. Rs. 20 and 21 E., T. 36 S.

S. 89° 54' W., bet. secs. 25 and 36.

Over rough, broken land, through moderate dense juniper and pinion.

5.00 Branch of Whisker's Draw, 1.50 chs. wide, 2 ft. deep, drains NE.; asc. 200 ft. over steep S. slope.

37.00 Spur, sloping SE.; desc. 60 ft. over broken SW. facing ledges.

40.09 Point for the 1/4 sec. cor. of secs. 25 and 36.

Section 36, T. 36 S., R. 20 E.

Chains

Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 4 ft. base to top of post, with brass cap mkd.

T36S R20E

¼ S25
S36
1957

Desc. 80 ft. over steep SW. slope.

50.00 Wash, 30 lks. wide, 2 ft. deep, drains SE.; asc. 320 ft. over NE. slope.

72.00 Spur, sloping SE.; desc. 80 ft. over broken SW. facing ledges.

80.18 The cor. of secs. 25, 26, 35 and 36.

Land, rough and broken.

Soil, sandy.

Timber, moderate dense juniper and pinion; undergrowth, scattered artemesia.

General Description

The land of sec. 36, T. 36 S., R. 20 E., is on the E. slope of Comb. Ridge. The land is broken with a general E. drainage.

The elevation of this section ranges from 5700 ft. above sea level in the NE. cor. of the section to 6100 ft. in the SW. corner of the section. There is one large canyon in the section, branch of Whisker's Draw, which enters the section on the W. boundary near the NW. corner of the section and bears E., leaving the section near the NE. corner.

The soil throughout the section is residual sandy silt, with exposed sandstone ledges. The soil produces a moderate dense growth of dwarf juniper and pinion, with an undergrowth of black brush, bitter brush and mountain rush.

There are no roads or permanent sources of water within the section. The land is used for the grazing of cattle.

CERTIFICATE OF CADASTRAL ENGINEER

I, Dell Cazier, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 2nd day of April, 1957 I have surveyed a portion of the subdivision of Township 36 South, Range 20 East.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

November 1, 1957
Salt Lake City, Utah

Dell Cazier
Dell Cazier
Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., 19

The foregoing field notes of the survey of _____
_____ executed by _____
having been critically examined and found correct, are hereby approved.

Cadastral Engineering Staff Officer.

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____, is a true copy of the original field notes.

Cadastral Engineering Staff Officer

CERTIFICATE OF CADASTRAL ENGINEER

I, Vern E. Lane, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 2nd day of April, 1957, I have surveyed supervised the survey of a portion of the subdivision of Township 36 South, Range 20 East

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

November 1, 1957
Salt Lake City, Utah

Vern E. Lane
Vern E. Lane
Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., JUN 17 1958, 19

The foregoing field notes of the survey of a portion of the subdivision of Township 36 South, Range 20 East.

executed by Dell Cazier, under the supervision of Vern E. Lane.

having been critically examined and found correct, are hereby approved.

Carl G. Harrington
Cadastral Engineering Staff Officer.

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in is a true copy of the original field notes.

Cadastral Engineering Staff Officer

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE SURVEY

OF

THE NORTH BOUNDARY,

A PORTION OF THE SUBDIVISION

AND

THE MEANDERS OF THE COLORADO RIVER

THROUGH SECTION 16

OF

TOWNSHIP 37 SOUTH, RANGE 12 EAST

Of the Salt Lake Meridian,

In the State of Utah

EXECUTED BY

Vern E. Lane - Cadastral Surveyor (Chief of Party)

Fred R. Chappell - Cadastral Surveyor

Under special instructions dated May 13, 1956, which provided

for the surveys included under Group No. 401, approved July 5, 1956

and assignment instructions dated September 11, 1957

Survey commenced September 16, 1957

Survey completed October 9, 1957

INDEX DIAGRAM

Township 37. South , *Range* 12 East

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21	19 18 22	17 23	7 24	25	7 6 26

16-28770-1

Meanders of the Colorado River through sec. 16 - pages 19 and 20

2465

Township 37 South, Range 12 East

Chains

The east boundary of T. 37 S., R. 12 E. of the Salt Lake Meridian, Utah, was surveyed by Robert C. Yundt in 1930. The south and west boundaries were surveyed concurrently by Fred R. Chappell and Craig P. Sylvester respectively.

The following field notes are those of a survey of the north boundary and that part of the subdivision considered sufficient in extent to mark the boundaries of those sections normally considered State school land, and to facilitate the development of the natural resources. The corners along the latitudeinal lines were established at the true latitudinal curve and all corners of the subdivision are established at points calculated to be in the same position they would occupy if the township had been completely subdivided.

The survey was executed with a W. and L. E. Gurley transit, serial No. 541327, being the property of the Bureau of Land Management and constructed in accordance with their standard specifications. The horizontal plate has two double verniers placed opposite to each other, and the vertical circle has one double vernier. The horizontal verniers of the transit are graduated to 30 seconds of arc. All other verniers of the transit and the solar attachment are graduated to single minutes of arc. The instrument was in good adjustment, and prior to the beginning of the field work, it was examined and all errors eliminated. It was maintained in good adjustment during the survey.

The direction of all lines were determined by the solar transit method.

The measurements were made with steel ribbon tapes, 8 chains in length. These tapes are graduated every link for the first chain, and thereafter at intervals of 10 links. They were tested by comparison with a Lufkin standard steel tape, 1 chain in length, and found to be correct. The measurements were made on the slope, the vertical angle of each interval determined by the use of clinometers, and the slope distances properly reduced to horizontal equivalents, which appear in these notes. In most cases the distances were determined by chaining, but in some instances they were obtained by triangulation and in others by offsets and traverses. The details of these were thoroughly verified and only the true line distances are given in these notes.

The geographic position of the southeast corner of the township, determined through ties made to U. S. Geological Survey triangulation station "Mançus" in sec. 5 of T. 37 S., R. 12 E. is latitude $37^{\circ} 31' 10.17''$ N. and longitude $110^{\circ} 31' 40.60''$ W.

The mean magnetic declination was found to be 15° E.

The geographic position of U. S. Geological Survey triangulation station "Mançus" in sec. 5 of T. 37 S., R. 12 E. is latitude $37^{\circ} 36' 03.663''$ N. and longitude $110^{\circ} 36' 20.506''$ W.

North Boundary of T. 37 S., R. 12 E.

Beginning at the true point for the cor. of Ts. 36 and 37 S., Rs. 12 and 13 E.

West, bet. secs. 1 and 36.

Over broken and gently rolling desert land, through medium undergrowth.

Asc. 140 ft. over an E. sandstone slope.

E. rim of bench, bears N. and S., thence across nearly level bench land.

North Boundary of T. 37 S., R. 12 E.

51110

Chains	
13.50	Sandstone rib, projects N., 1.00 ch. to end.
25.00	W. rim of bench, bears N. and SW.; desc. 220 ft. along a broken N. slope.
40.00	Point for the $\frac{1}{4}$ sec. cor. of secs. 1 and 36. Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, $3\frac{1}{2}$ ft. base to top, with brass cap mkd. T36S R12E $\frac{1}{4}$ $\frac{S36}{S 1}$ T37S 1957
80.00	Thence by triangulation asc. 350 ft. across head of deep gulch and along a broken N. slope of sandstone slickrock. Point for the cor. of secs. 1, 2, 35 and 36 falls on a steep N. slope of sandstone slickrock, where the cor. cannot be perpetuated. Land, gently rolling and badly broken desert. Soil, sandy loam on the bench, eroded and broken sandstone the balance. Timber, none; undergrowth, medium black brush and grass on the bench, no vegetation the balance.
0.23	West, bet. secs. 2 and 35. Over badly broken desert land, across sandstone slickrock. Point for the witness cor. of secs. 1, 2, 35 and 36. Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, $3\frac{1}{2}$ ft. base to top, with brass cap mkd. T36S R12E $\frac{S35}{S 2}$ $\frac{S36}{S 1}$ W C T37S 1957
6.30	Asc. 100 ft. along a N. sandstone slope. Top of ascent; thence desc. 110 ft. over a series of sandstone knobs.
11.50	Thence across Cedar Canyon, by triangulation. Topography approx. as taken from a Geological Survey map. Desc. 400 ft. over a broken W. slope.
40.00	Point for the $\frac{1}{4}$ sec. cor. of secs. 2 and 35 falls on an inaccessible sandstone slope, where the cor. cannot be perpetuated; desc. 100 ft. over a broken W. slope.
44.50	Bottom of Cedar Canyon, drains irregularly S.; asc. 280 ft. over nearly vertical cliffs, facing E.
54.68	W. rim of Cedar Canyon, bears N. 20° E. and S. 20° W.
54.74	Point for the witness $\frac{1}{4}$ sec. cor. of secs. 2 and 35. Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, $3\frac{1}{2}$ ft. base to top, with brass cap mkd.

North Boundary of T. 37 S., R. 12 E.

Chains

T36S R12E

$$\frac{1}{4} \frac{S35}{S2} \frac{W}{C}$$

T37S

1957

Asc. 30 ft. over an E. slope.

57.40 Sandstone spur, projects S.; desc. 98 ft. over a SW. sandstone slope.

62.00 Sandstone draw, drains SE.; asc. 90 ft. over a series of sandstone ribs and knobs.

80.00 Point for the cor. of secs. 2, 3, 34 and 35 falls on the steep S. slope of a sandstone rib, where the cor. cannot be perpetuated.

Land, badly broken desert.

Soil, broken and eroded sandstone, with sand in the canyon bottom.

Timber, none; undergrowth, scattered black brush, rabbit brush, cacti and grass in the canyon bottom.

West, bet. secs. 3 and 34.

4.33 Point selected for the witness cor. of secs. 2, 3, 34 and 35.

In a sandstone saddle

Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) and in a mound of stone, 4½ ft. base to top, with brass cap mkd.

T36S R12E

$$\frac{S34}{S3} \frac{S35}{S2} \frac{W}{C}$$

T37S

1957

Desc. 180 ft. over a series of sandstone ribs and knobs, sloping to the N. into the Colorado River.

30.40 Head of gulch, drains NW.; asc. 50 ft.

40.00 Point for the ¼ sec. cor. of secs. 3 and 34.

Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.

T36S R12E

$$\frac{1}{4} \frac{S34}{S3}$$

T37S

1957

Desc. 265 ft. along a broken N. slope.

52.00 Head of gulch, drains abruptly N. into the Colorado River, thence by traverse along the S. rim of the Colorado River.

80.00 Point for the cor. of secs. 3, 4, 33 and 34 falls on inaccessible steep talus slope, at approx. edge of river, therefore at a point S. 0° 06' W., 5.41 chs. dist. on the S. rim of the Colorado River.

Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.

North Boundary of T. 37 S., R. 12 E.

Chains	<p style="text-align: center;">T36S R12E W C S33 S34 S 4 S 3 T37S 1957</p> <p>Land, badly broken desert. Soil, broken and eroded sandstone. Timber, none.</p>	miedO
<p>40.00</p> <p>77.50</p> <p>80.00</p>	<p>West, bet. secs. 4 and 33.</p> <p>Counting dist. from the true point for the cor. of secs. 3, 4, 33 and 34.</p> <p>Over the Colorado River, by triangulation.</p> <p>Point for the 1/2 sec. cor. of secs. 4 and 33 falls in the Colorado River, where the cor. cannot be perpetuated.</p> <p>Mean high water mark on the right bank of the river falls on the steep sandstone slope of the "Tapestry Wall", bearing N. 70° E. and SW., where the monument cannot be perpetuated; asc. 150 ft. over sandstone slickrock.</p> <p>Point for the cor. of secs. 4, 5, 32 and 33 falls on the steep slope of the "Tapestry Wall", where the cor. cannot be perpetuated.</p> <p>Land, water first 77.50 chs., sandstone slickrock the balance.</p>	
<p>2.30</p> <p>2.50</p> <p>18.20</p> <p>40.00</p>	<p>West, bet. secs. 5 and 32.</p> <p>Over badly broken desert land.</p> <p>Asc. 22 ft. over nearly vertical "Tapestry Wall".</p> <p>Rim of "Tapestry Wall", bears NE. and SW.</p> <p>Point for the cor. of secs. 4, 5, 32 and 33.</p> <p>Set an iron post, 30 ins. long, 2 1/2 ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3 1/2 ft. base to top, with brass cap mkd.</p> <p style="text-align: center;">T36S R12E S32 S33 W S 5 S 4 C T37S 1957</p> <p>Asc. 380 ft. over sandstone slickrock, sloping to the E.</p> <p>Top of ascent, thence over a gentle W. slope of sandy mesa.</p> <p>Point for the 1/2 sec. cor. of secs. 5 and 32.</p> <p>Set an iron post, 30 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd,</p>	
	<p style="text-align: center;">T36S R12E S32 S 5 T37S 1957</p>	

North Boundary of T. 37 S., R. 12 E.

Chains

Deposit charcoal at the base of the post.

From which U.S. Geological Survey triangulation station "Mancus", a brass tablet set in solid rock, bears S. 32° 03' E., 35.06 chs. dist.

Desc. 50 ft. over gentle W. slope.

48.90 W. rim of mesa, bears NW. and S.; desc. 50 ft. over ledges.

49.40 Base of ledges; desc. 170 ft. over sandstone slickrock, sloping to the NW.

69.00 Sandstone wash; drains SW.; asc. 100 ft. over a SE. slope of sandstone slickrock.

80.00 Point for the cor. of secs. 5, 6, 31 and 32 falls on a steep SE. slope of sandstone slickrock, where the cor. cannot be perpetuated.

Land; broken and gently rolling desert.

Soil, exposed sandstone and sandy clay.

Timber, none; undergrowth, scant black brush, mountain rush, cacti, grass and weeds.

West, bet. secs. 6 and 31.

Over broken desert land; asc. 40 ft. over a SE. slope of sandstone slickrock.

3.90 Point for the witness cor. of secs. 5, 6, 31 and 32.

On a sandstone spur, projecting SW. .20 lks. to end

Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid rock, and in a mound of stone, 5 ft. base to top, with brass cap mkd.

T36S R12E
S31|S32 W
S 6|S 5 C
T37S
1957

Desc. 355 ft. along a W. slope of sandstone slickrock.

40.00 Point for the ¼ sec. cor. of secs. 6 and 31.

Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.

T36S R12E
¼ S31
S 6
T37S
1957

Asc. 180 ft. along a SE. slope of sandstone slickrock.

55.70 Sandstone spur, projects SW. 5.00 chs. to end; desc. 255 ft. over a series of sandstone ribs and knobs, sloping to the W.

77.00 Intersect the E. bdy. of T. 37 S., R. 11 E., 3.98 chs. N. of the true point for the ¼ sec. cor. of sec. 12. Point for the closing cor. of Ts. 36 and 37 S., R. 12 E.

At the point of intersection

Chains

Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T37S T36S
R11E R12E.
S12 | $\frac{S31}{S.6}$ CC
T37S
1957

Land, broken desert.

Soil, exposed, broken and eroded sandstone.

Timber, none; undergrowth, widely scattered wild apple, black brush and grass.

Portion of the Subdivision, T. 37 S., R. 12 E.

Beginning the subdivisional survey at the cor. of secs. 1, 2, 35 and 36 on the S. bdy. of the township, mkd. by an iron post, 2½ ins. diam. conforming to the record.

N. 0° 01' W., bet. secs. 35 and 36.

Over broken desert land, through scant undergrowth; desc. 210 ft. over a NW. sandstone slope.

19.40 Sandstone wash, 70 lks. wide, 2½ ft. deep, drains SW.; asc. 50 ft. over a SE. slope.

40.00 Point for the ¼ sec. cor. of secs. 35 and 36.

Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to solid rock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T37S R12E
¼
S35 | S36
1957

Desc. 15 ft. over a gentle N. slope.

65.30 S. rim of canyon, bears irregularly W. and E.; thence across canyon by triangulation. Topography approx. as taken from a Geological Survey sheet.

Desc. 320 ft. over a ledgy N. slope.

80.00 Point for the cor. of secs. 25, 26, 35 and 36 falls in bottom of inaccessible canyon.

Land, broken desert.

Soil, sandy loam, with broken and eroded sandstone.

Timber, none; undergrowth, scant black brush, mountain rush and cacti.

N. 0° 01' W., bet. secs. 25 and 26.

Asc. 300 ft. over nearly vertical ledges facing S.

5.90 Point for the witness cor. of secs. 25, 26, 35 and 36.

Portion of the Subdivision, T. 37 S., R. 12 E.

Chains

Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T37S R12E

S26 | S25

S35 | S36

W C

1957

Beginning at the cor. of secs. 25, 30, 31 and 36 on the E. bdy. of the township, mkd. by an iron post, 2 ins. diam., conforming to the record.

S. 82° .57' W., bet. secs. 25 and 36.

Over badly broken desert land, through scant undergrowth.

Thence by triangulation across a series of sandstone points and spurs projecting S. into a deep canyon draining W.

40.00

Point for the ¼ sec. cor. of secs. 25 and 36 falls on inaccessible ledges on the S. end of a sandstone point.

Therefore, at a point 5.00 chs. N., the witness ¼ sec. cor. of secs. 25 and 36.

Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid rock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T37S R12E

¼ S25

S36

W C

1957

Continue over sandstone ledges into the bottom of canyon.

80.00

The true point for the cor. of secs. 25, 26, 35 and 36.

Land, badly broken desert.

Soil, broken and eroded sandstone, with sand in the canyon bottom.

Timber, a few cottonwood in the canyon bottom.

Undergrowth, scattered black brush, grass and cacti.

Beginning at the cor. of secs. 3, 4, 33 and 34 on the S. bdy. of the township, mkd. by an iron post, 2½ ins. diam., conforming to the record.

N. 0° 02' W., bet. secs. 33 and 34.

Over broken desert land, through scant undergrowth; asc. 95 ft. over a S. sandstone slope.

7.20

Crest of S. slope, thence across a series of sandstone ribs, knobs and crevices, putting to the SW.

40.00

Point for the ¼ sec. cor. of secs. 33 and 34.

Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

Portion of the Subdivision, T. 37 S., R. 12 E.

Chains	
	<p style="text-align: center;">T37S R12E $\frac{1}{4}$ S33 S34 1957</p> <p>Asc. 95 ft. over a broken S. sandstone slope.</p>
47.90	Top of ascent; desc. 20 ft. over NW. slope.
48.50	Sandstone draw, drains SW.; asc. 125 ft. over a broken S. slope.
65.70	Top of ascent; desc. 100 ft. over a broken N. slope.
80.00	Point for the cor. of secs. 27, 28, 33 and 34.
	<p>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 4 ft. base to top, with brass cap mkd.</p> <p style="text-align: center;">T37S R12E S28 S27 S33 S34 1957</p> <p>Land, badly broken desert. Soil, eroded and sandstone slickrock. Timber, none. Undergrowth, widely scattered black brush and cacti.</p>
	<p>N. 0° 02' W., bet. secs. 27 and 28.</p> <p>Over badly broken desert land, through widely scattered undergrowth; desc. 15 ft. over a N. sandstone slope.</p>
2.80	Small draw, drains SW.; asc. 75 ft. over a S. sandstone slope.
7.50	Sandstone spur, projects W.; desc. 65 ft. over a sandstone N. slope.
14.40	Sandstone draw, drains SW.; asc. 170 ft. over a broken S. sandstone slope.
40.00	Point for the ¼ sec. cor. of secs. 27 and 28.
	<p>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 4 ft. base to top, with brass cap mkd.</p> <p style="text-align: center;">T37S R12E $\frac{1}{4}$ S28 S27 1957</p> <p>Asc. 10 ft.</p>
41.00	Sandstone spur ridge, projects W., thence across deep canyon by triangulation. Topography approx. as taken from a Geological Survey sheet; desc. 650 ft. over a broken N. slope.
64.50	Bottom of canyon, wash drains SW.; asc. 440 ft. over steep S. slope.
80.00	Point for the cor. of secs. 21, 22, 27 and 28 falls on the steep S. slope of a sandstone knob, where the cor. cannot be perpetuated.
	<p>Land, badly broken desert. Soil, eroded and broken sandstone, with sand in the pockets and canyon bottom. Timber, none; undergrowth, very scant black brush and cacti.</p>

Portion of the 8 bdivision, T. 37 S., R. 12 E.

Chains	
	N. 0° 02' W., bet. secs. 21 and 22.
	Over broken desert land, through very scant undergrowth.
0.24	Point for the witness cor. of secs. 21, 22, 27 and 28.
	On a sandstone spur, projecting W.
	Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	<p style="text-align: center;">T37S R12E S21 S22 S28 S27 W C 1957</p>
2.00	S. rim of canyon, bears E. and W.; desc. 300 ft. over nearly vertical ledges.
10.00	Bottom of canyon, drains W.; asc. 160 ft. over nearly vertical ledges.
22.00	N. rim of canyon, bears E. and W.; asc. 50 ft. over a broken W. slope.
26.70	Crest of ascent; desc. 320 ft. over a broken N. slope.
35.20	Bottom of descent, wash drains SW.; asc. 240 ft. over a series of sandstone ribs and knobs putting to the S.
40.00	Point for the ¼ sec. cor. of secs. 21 and 22.
	Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.
	<p style="text-align: center;">T37S R12E ¼ S21 S22 1957</p>
	Asc. 85 ft. over a broken S. slope.
46.00	Sandstone spur, projects S.; desc. 135 ft. over a series of sandstone ribs and knobs, putting to the SW.
63.20	Sandstone draw, drains SW.; asc. 135 ft. over a broken SE. sandstone slope.
80.00	Point for the cor. of secs. 15, 16, 21 and 22 falls on the steep S. slope of a sandstone rib, projecting W., where the cor. cannot be perpetuated.
	<p>Land, badly broken desert. Soil, eroded and broken sandstone, with sand in the canyon bottom. Timber, none; undergrowth, widely scattered growth of black brush and cacti.</p>
	N. 0° 02' W., bet. secs. 15 and 16.
0.90	Point for the witness cor. of secs. 15, 16, 21 and 22.
	On a sandstone rib
	Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3½ ft. base, with brass cap mkd.

Chain

T37S R12E
 S16|S15
 S21|S22
 W C
 1957

- Desc. 110 ft. over a series of sandstone ribs and knobs.
- 15.00 Sandstone draw, drains SW.; asc. 125 ft. over a broken S. slope.
- 33.90 Crest of ascent; thence desc. 95 ft. over a N. sandstone slope.
- 40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 15 and 16 falls on a steep N. sandstone slope, where the cor. cannot be perpetuated.
- 41.94 Point for the witness $\frac{1}{4}$ sec. cor. of secs. 15 and 16.
- Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T37S R12E
 $\frac{1}{4}$
 S16|S15
 W C
 1957

- Desc. 210 ft. over a steep N. sandstone slickrock slope.
- 50.80 Bottom of descent; asc. 75 ft. over sandstone knobs.
- 63.00 S. rim of Knowles Canyon, bears irregularly E. and W., thence across canyon by triangulation; desc. 400 ft. over NE. slope.
- 80.00 Point for the cor. of secs. 9, 10, 15 and 16 falls in the bottom of inaccessible canyon, where the cor. cannot be perpetuated.
- Land, badly broken desert.
 Soil, eroded and broken sandstone, with sand in the canyon bottom.
 Timber, widely scattered cottonwood in the canyon bottom.
 Undergrowth, very scant black brush, cacti and weeds.

N. 0° 02' W., bet. secs. 9 and 10.

- Over broken desert land, through very scant undergrowth.
- 5.00 N. rim of Knowles Canyon, bears irregularly E. and W.
- 5.50 Point for the witness cor. of secs. 9, 10, 15 and 16.
- Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3 $\frac{1}{2}$ ft. base to top, with brass cap mkd.

T37S R12E
 S 9|S10
 S16|S15
 W C
 1957

- Asc. 200 ft. along a steep W. slope of sandstone slickrock.
- 10.40 W. slope of top of high sandstone knob; desc. 70 ft. over a NW. slope of sandstone slickrock; desc. 240 ft. over NW. slope to draw,

Portion of the Subdivision, T. 37 S., R. 12 E.

Chains	
28.60	S. edge of deep draw, drains irregularly SW.; asc. 200 ft. over a S. slope.
40.00	<p>Point for the $\frac{1}{4}$ sec. cor. of secs. 9 and 10.</p> <p>Set an iron post, 30 ins. long, 2$\frac{1}{2}$ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3$\frac{1}{2}$ ft. base to top, with brass cap mkd.</p> <p style="text-align: center;">T37S R12E $\frac{1}{4}$ S 9 S10 1957</p>
53.40	<p>Asc. 240 ft. over a SE. sandstone slope.</p> <p>Sandstone spur, projects SW.; desc. 80 ft. over ribs and knobs.</p>
80.00	<p>Point for the cor. of secs. 3, 4, 9 and 10 falls on the steep N. slope of a sandstone knob, where the cor. cannot be perpetuated.</p> <p>Land, badly broken desert. Soil, eroded and broken sandstone, with sand in the canyon bottom. Timber, none; undergrowth, very scant black brush, cacti and weeds.</p>
0.60	<p>N. 0° 06' E., bet. secs. 3 and 4.</p> <p>Over broken desert land, through very scant undergrowth.</p> <p>Point for the witness cor. of secs. 3, 4, 33 and 34.</p> <p>Set an iron post, 30 ins. long, 2$\frac{1}{2}$ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3$\frac{1}{2}$ ft. base to top, with brass cap mkd.</p> <p style="text-align: center;">T37S R12E S 4 S 3 S 9 S10 W C 1957</p>
31.80	<p>Thence over a series of sandstone ribs and knobs.</p> <p>Point for the witness $\frac{1}{4}$ sec. cor. of secs. 3 and 4.</p> <p>Set an iron post, 30 ins. long, 2$\frac{1}{2}$ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3$\frac{1}{2}$ ft. base to top, with brass cap mkd.</p> <p style="text-align: center;">T37S R12E $\frac{1}{4}$ S 4 S 3 W C 1957</p>
40.00	<p>True point for the $\frac{1}{4}$ sec. cor. of secs. 3 and 4 falls on the steep N. slope of sandstone slickrock, where the cor. cannot be perpetuated.</p> <p>Thence across deep sandstone draw, by triangulation. Topography approx. as taken from Geological Survey map.</p>
55.00	<p>Desc. 550 ft. over nearly vertical ledges facing N.</p> <p>Bottom of draw, drains W.; asc. 400 ft. over a ledgy S. slope of broken sandstone.</p> <p>Desc. 400 ft. over nearly vertical ledges, facing to the N.</p>

Portion of the Subdivision, T. 37 S., R. 12 E.

Chains	Notes
63.00	Top of knob on W. slope; thence asc. over E. slope to rim.
74.36	The witness cor. of secs. 3, 4, 33 and 34 on the S. rim of the Colorado River; desc. 400 ft. over steep slope to river.
79.77	True point for the cor. of secs. 3, 4, 33 and 34. Land, badly broken desert. Soil, eroded and broken sandstone, with a small amount of sand in the draws. Timber, none; undergrowth, very scant black brush, wild apple and cacti.
Beginning at the true point for the cor. of secs. 2, 3, 34 and 35 on the N. bdy. of the township.	
S. 0° 01' E., bet. secs. 2 and 3.	
Over badly broken desert land; desc. 40 ft. over a steep S. slope.	
0.80	Sandstone draw, drains S. 80° E.; asc. 100 ft. over a N. slope.
6.20	Top of ascent, sandstone spur projects E.; desc. 275 ft. over a series of sandstone knobs and ribs.
36.00	Point for the witness $\frac{1}{4}$ sec. cor. of secs. 2 and 3. Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 4 ft. base to top, with brass cap mkd.
T37S R12E S 3 S 2 W C 1957	
30.20	N. rim of Cedar Canyon, bears NE. and SW., thence by triangulation across canyon. Topography approx. as taken from Geological Survey map; desc. 350 ft. over a SE. slope of broken sandstone.
39.34	True point for the $\frac{1}{4}$ sec. cor. of secs. 2 and 3 falls on a steep S. slope of sandstone slickrock, where the cor. cannot be perpetuated.
41.00	Bottom of Cedar Canyon, drains irregularly SW.; asc. 200 ft. over a broken N. slope of sandstone slickrock.
40.00	Top of ascent; desc. 200 ft. over S. slope.
55.00	Wash, drains W.; asc. 700 ft. over a broken N. slope of sandstone slickrock.
79.64	Point for the cor. of secs. 2, 3, 10 and 11. On a shelf Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 4 ft. base to top, with brass cap mkd.
T37S R12E S 3 S 2 S10 S11 1957	

Portion of the Subdivision, T. 37 S., R. 12 E.

Chains

Land, badly broken desert.
Soil, sandstone, with some sand in the canyon bottom.
Timber, none; undergrowth, very scant black brush and cacti.

S. 89° 57' E., bet. secs. 2 and 11.

Over badly broken desert land, through widely scattered undergrowth; asc. 85 ft. along a broken N. slope of sandstone slickrock.

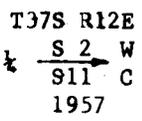
12.80

Sandstone spur, projects N., thence over a series of sandstone ribs, knobs and draws, putting to the N.

35.50

Point for the witness $\frac{1}{4}$ sec. cor. of secs. 2 and 11.

Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3 $\frac{1}{2}$ ft. base to top; with brass cap mkd.



35.70

Rim of gulch, bears SE. and NW.; thence across gulch by triangulation. Topography approx. as taken from a Geological Survey map.

40.00

True point for the $\frac{1}{4}$ sec. cor. of secs. 2 and 11 falls in inaccessible gulch, draining N.

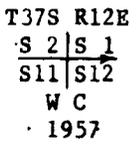
55.00

E. rim of gulch, bears NE. and SW., thence along a broken N. slope of sandstone slickrock.

78.79

Point for the witness cor. of secs. 1, 2, 11 and 12.

Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 4 ft. base to top, with brass cap mkd.



80.00

True point for the cor. of secs. 1, 2, 11 and 12 falls on steep E. slope of a sandstone ledge, where the cor. cannot be perpetuated.

Land, badly broken desert.
Soil, eroded and broken sandstone, with sand in the bottom of the draws.
Timber, none; undergrowth, widely scattered black brush, apple brush, rabbit brush and grass.

N. 0° 04' E., bet. secs. 1 and 2.

Over badly broken desert land, through very scant undergrowth, thence across deep canyon by triangulation, Topography approx. as taken from a Geological Survey map; desc. 320 ft. over a broken N. sandstone slope.

25.00

Bottom of canyon, drains W.; asc. 300 ft. over a broken S. slope of sandstone.

35.00

Point for the witness $\frac{1}{4}$ sec. cor. of secs. 1 and 2.

Portion of the Subdivision, T. 37 S., R. 12 E.

Chains

mined

On a sandstone spur, projecting W.
Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X), and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T37S R12E

½
S 2 AS 1
W C
1957

Thence across canyon by triangulation. Topography approx. as taken from a Geological Survey map; desc. 320 ft. over a broken N. slope.

40.00 True point for the ¼ sec. cor. of secs. 1 and 2 falls on steep N. slope of canyon.

55.00 Bottom of canyon, drains W.; asc. 480 ft. over a broken S. slope.

75.90 E. side of top of high sandstone knob, thence desc. 140 ft. over a steep N. sandstone slope.

80.00 True point for the cor. of secs. 1, 2, 35 and 36 on the N. bdy. of the township.

Land, badly broken desert.
Soil, broken and eroded sandstone, with sand in the canyon bottoms, Timber, none; undergrowth, widely scattered black brush, rabbit brush, wild apple and grass.

Beginning at the true point for the cor. of secs. 15, 16, 21 and 22. West, bet. secs. 16 and 21.

Over rolling and broken desert land, through very scant undergrowth; desc. 85 ft. along a S. slope.

13.50 Slope changes to a SW. slope; desc. 195 ft.

30.90 Sandstone draw, drains SW.; asc. 230 ft. along a SE. sandstone slick-rock slope.

40.00 Point for the ¼ sec. cor. of secs. 16 and 21.

Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.

T37S R12E

½
S16
S21
1957

Continue to asc. 175 ft.

51.60 Sandstone spur, projects SW.; desc. 115 ft. over a sandstone NW. slope.

64.00 Head of gulch, drains N.; asc. 35 ft. along a N. slope.

80.00 Point for the cor. of secs. 16, 17, 20 and 21.

Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

Portion of the Subdivision, T. 37 S., R. 12 E:

Chains

T37S R12E

S17|S16

S20|S21

1957

Land, broken and rolling desert;
Soil, eroded and broken sandstone, with sand in the draws.
Timber, none; undergrowth, very scant black brush, grass and cacti.

N. 0° 03' W., bet. secs. 16 and 17.

Over badly broken desert land, through medium undergrowth; desc. 110 ft. over a N. sandstone slope.

6.96 Point for the witness meander cor. of secs. 16 and 17.

On the S. rim of the Colorado River

Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

WMC

S17|S16

T37S R12E

1957

Desc. 600 ft. over a series of nearly vertical ledges.

15.00 Mean high water mark on the left bank of the river, falls on a steep sandstone slope, where the cor. cannot be perpetuated.

30.48 Right bank of the Colorado River at mean high water level; at this point, river flows S. 80° W.

Point for the meander corner

Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

T37S R12E

S17|S16

M C

1957

Deposit charcoal at the base of the post.

Asc. 80 ft. along an E. slope.

40.00 Point for the ¼ sec. cor. of secs. 16 and 17.

Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid rock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T37S R12E

S17|S16

1957

Asc. 85 ft. along an E. slope.

45.50 Top of ascent; desc. 20 ft. over nearly level bench land.

70.00 Leave bench land; asc. 20 ft. along an E. slope.

Chains		
73.00	Top of ascent; desc. 105 ft. into deep draw.	
77.60	Draw, drains E. about 8.00 chs. into Colorado River; asc. 130 ft. over S. slope.	
80.00	Point for the cor. of secs. 8, 9, 16 and 17. On a sandstone bench Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X), and in a mound of stone, 3½ ft. base to top, with brass cap mkd.	
		T37S R12E S 8 S 9 S17 S16 1957
	Land, broken and rolling desert. Soil, broken and eroded sandstone, with sand in the river bottom. Timber, scattered patches of oak along the river. Undergrowth, dense river brush, willows and squaw brush along the river, scattered black brush and grass the balance.	
	Counting distance from the true point for the cor. of secs. 9, 10, 15 and 16. West, bet. secs. 9 and 16. Over broken desert land, through scant undergrowth, thence by triangulation along the bottom of Knowles Canyon.	
39.99	Point for the ¼ sec. cor. of secs. 9 and 16. On a sandstone spur, projecting N. 2.00 chs. into the canyon bottom Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 4 ft. base to top, with brass cap mkd.	
		T37S R12E ¼ S 9 S16 1957
	Desc. 54 ft. over a NW. slope.	
42.70	Bottom of Knowles Canyon, drains SW.; asc. 110 ft. over a broken SE. slope.	
50.70	Top of ascent; desc. 95 ft. over a W. slope.	
56.60	Enter river bottom, thence through dense undergrowth.	
60.70	Left bank of the Colorado River at mean high water level and point for the meander cor. of secs. 9 and 16. Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground with brass cap mkd.	
		T37S R12E M C S 9 S16 1957
	Deposit a sandstone, 4x4x2 ins., mkd. with a cross (X) at the base of the post.	

Portion of the Subdivision, T. 37 S., R. 12 E.

Chains	
72.13	<p>At this point, river flows S.</p> <p>Thence across river by triangulation.</p> <p>Right bank of the Colorado River, and point for the meander corner of secs. 9 and 16.</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;"> <p>T37S R12E</p> <p>S 9 </p> <p>S16 M C</p> <p>1957</p> </div> <p>Deposit a sandstone, 5x5x3 ins., mkd. with a cross (X) at the base of the post.</p> <p>Asc. 115 ft. over a broken E. slope.</p>
79.98	<p>The cor. of secs. 8, 9, 16 and 17.</p> <p>Land, broken and rolling desert.</p> <p>Soil, sandstone and sandy loam.</p> <p>Timber, a few scattered patches of oak in the river bottom.</p> <p>Undergrowth, scant black brush, grass and weeds, with dense willows, river brush, tamarisk and weeds in the river bottom.</p>
17.00	<p>Beginning at the cor. of secs. 4, 5, 32 and 33 on the S. bdy. of the township, mkd. by an iron post, 2½ ins. diam., conforming to the record.</p> <p>N. 0° 03' W., bet. secs. 32 and 33.</p> <p>Over broken desert land, through scant undergrowth; desc. 300 ft. over a N. sandstone slope.</p> <p>Deep sandstone draw, drains irregularly W.; asc. 240 ft. over a SW. sandstone slope.</p>
40.00	<p>Point for the ¼ sec. cor. of secs. 32 and 33.</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 4 ft. base to top, with brass cap mkd.</p> <div style="text-align: center;"> <p>T37S R12E</p> <p>¼</p> <p>S32 S33</p> <p>1957</p> </div> <p>Asc. 15 ft.</p>
41.80	<p>Sandstone rib, projects W.; desc. 35 ft. along a NW. slope.</p>
46.00	<p>Sandstone draw, drains SW.; asc. 155 ft. along a SE. slope.</p>
65.90	<p>Sandstone spur, projects S. 40° W.; desc. 60 ft. over a N. slope.</p>
80.00	<p>Point for the cor. of secs. 28, 29, 32 and 33.</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid rock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.</p>

Chains

ended

T37S R12E
 S29 | S28
 S32 | S33
 1957

Deposit a sandstone, 5x4x4 ins., mkd. with a cross (X) at the base of the post.

Land, broken and rolling desert.

Soil, eroded and broken sandstone.

Timber, none; undergrowth, widely scattered black brush, wild apple, rabbit brush and grass.

Beginning at the true point for the cor. of secs. 5, 6, 31 and 32 on the S. bdy. of the township, which is witnessed E., 2.40 chs. dist., by an iron post, 2½ ins. diam., conforming to the record.

N. 0° 03' W., bet. secs. 31 and 32.

Over broken and rolling desert land; desc. 100 ft. over sandstone ledges facing NW.

4.00 Deep sandstone draw, drains SW. from NE. irregularly; asc. 400 ft. over ledges facing SE.

22.40 High sandstone knob; desc. 270 ft. over a N. sandstone slope.

40.00 Point for the ¼ sec. cor. of secs. 31 and 32.

Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.

T37S R12E
 S31 | S32
 1957

Desc. 60 ft.

41.40 Deep sandstone draw, drains SW.; asc. 345 ft. over a SE. sandstone slope.

74.00 Rim of bench, bears NE. and SW., continue over rolling SE. slope.

80.00 Point for the cor. of secs. 29, 30, 31 and 32.

On the S. rim of a black brush covered bench.

Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to solid rock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T37S R12E
 S30 | S29
 S31 | S32
 1957

Land, broken and rolling desert.

Soil, broken and eroded sandstone, with sand in the draws.

Timber, none; undergrowth, scant black brush, wild apple and grass.

Portion of the Subdivision, T. 37 S., R. 12 E.

Chains	
	Beginning at the cor. of secs. 28, 29, 32 and 33.
	S. 89° 56' W., bet. secs. 29 and 32.
	Over rolling and broken desert land, through scant undergrowth; asc. 10 ft.
2.40	Sandstone knob; desc. 100 ft. over a NW. sandstone slope.
14.30	Sandstone draw, drains SW.; asc. 60 ft. over a series of sandstone knobs.
32.20	Top of ascent; thence desc. 100 ft. along a NW. slope.
39.95	Point for the $\frac{1}{4}$ sec. cor. of secs. 29 and 32.
	Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T37S R12E $\frac{1}{4}$ S29 S32 1957
	Desc. 35 ft. over a NW. sandstone slope.
48.50	Sandstone wash, 30 lks. wide, 2 ft. deep, drains SW.; asc. 37 ft.
54.20	Top of ascent; desc. 160 ft. along a NW. sandstone slope.
61.40	Sandstone draw, drains SW.; asc. 290 ft. over a SE. sandstone slope.
76.00	Rim of black brush covered bench, bears NE. and SW.
79.90	The cor. of secs. 29, 30, 31 and 32.
	Land, broken and rolling desert. Soil, broken and eroded sandstone. Timber, none; undergrowth, scant black brush, rabbit brush, wild apple and grass.

Meanders of the Colorado River

Beginning at the meander cor. of secs. 16 and 17 on the right bank of the Colorado River.

Thence upstream with the meanders of the Colorado River in sec. 16.

N. 28° 30' E., 3.23 chs.

N. 23° 55' E., 3.65 chs.

N. 21° 15' E., 9.68 chs.

N. 09° 15' E., 12.20 chs.

North, 4.87 chs.

N. 06° W., 5.96 chs.

N. 0° 05' W., 11.53 chs. The meander cor. of secs. 9 and 16.

Chains

Soil, sandy river bottom land.
 Timber, scattered patches of oak and cottonwood.
 Undergrowth, dense willows and river brush.

Beginning at the meander cor. of secs. 9 and 16 on the left bank of the Colorado River.

Thence downstream with the meanders of the Colorado River in sec. 16

S. 5° E., 3.15 chs.

S. 9° E., 1.39 chs., 3.85 chs. on this course, Knowles Canyon Wash enters the river.

S. 8° W., 9.47 chs.

S. 2° 15' W., 5.36 chs.

S. 11° 30' W., 19.31 chs.

S. 30° W., 12.50 chs.

S. 48° 45' W., 12.22 chs. The true point for the meander cor. of secs. 16 and 17.

Soil, sandy river bottom land.
 Timber, scattered patches of oak and cottonwood.
 Undergrowth, dense willows and river brush.

GENERAL DESCRIPTION

The land in this township consists mainly of badly broken desert land, cut by numerous steep sided and box canyons. The drainage is mainly to the west into the Colorado River, which cuts through the northwest portion of the township. The northwest portion of the township drains south into the Colorado River. The soil is a sandy clay, with a portion being exposed, broken and eroded sandstone. There is a scattered growth of oak and cottonwood in the canyon bottoms and along the Colorado River. The undergrowth is mainly black brush, with lesser amounts of rabbit brush, sagebrush, cacti, mountain rush, bitter brush, grass and weeds. There are not permanent inhabitants in the township. A considerable amount of prospecting for flammable minerals has been and to some extent is still being carried on in the area. This township is not accessible by motor vehicle.

CERTIFICATE OF CADASTRAL ENGINEER

I, Fred B. Chappell, ENGINEER CERTIFY upon honor that
 pursuant to special instructions bearing date of the 13th day of May, 1930
 I have surveyed the north boundary, a portion of the subdivision and the meanders
the Colorado River through sec. 16, Township 37 South, Range 12 East

of the Salt Lake Meridian, in the State of Utah, which
 represented in the foregoing field notes as having been executed by me and under my direction; and
 said survey has been made in strict conformity with said instructions, the Manual of Instructions for
 Survey of the Public Lands of the United States, and in the specific manner described in the foregoing
 field notes.

June 9, 1930

Salt Lake City, Utah

Fred B. Chappell
Fred B. Chappell

Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., _____, 19

The foregoing field notes of the survey of _____

executed by _____

having been critically examined and found correct, are hereby approved.

Cadastral Engineering Staff Officer

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys is _____

is a true copy of the original field notes.

Cadastral Engineering Staff Officer

CERTIFICATE OF CADASTRAL ENGINEER

I, Vern E. Lane, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 13th day of May 1956, I have surveyed supervised the survey of the north boundary, a portion of the subdivision and the meanders of the Colorado River through sec. 16, Township 37 South, Range 12 East

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed under my supervision; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

June 9, 1958
Salt Lake City, Utah

[Signature: Vern E. Lane]
Vern E. Lane - Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., SEP 30 1958, 19

The foregoing field notes of the survey of the north boundary, a portion of the subdivision and the meanders of the Colorado River through sec. 16, Township 37 South, Range 12 East, Salt Lake Meridian, Utah.

executed by Fred R. Chappell, under the supervision of Vern E. Lane having been critically examined and found correct, are hereby approved.

[Signature: Carl G. Harrington]
Cadastral Engineering Staff Officer.

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in is a true copy of the original field notes.

Cadastral Engineering Staff Officer

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
ORIGINAL
FIELD NOTES

OF THE SURVEY OF

THE EAST BOUNDARY

AND A

PORTION OF THE SUBDIVISIONAL LINES

OF

TOWNSHIP 37 SOUTH, RANGE 13 EAST

Of the Salt Lake Meridian,

in the State of Utah

EXECUTED BY

Leslie H. Godwin, Cadastral Surveyor

Dell Cazier, Cadastral Surveyor

Under special instructions dated May 13, 1955, which provided

for the surveys included under Group No. 405, approved May 31, 1955

and assignment instructions dated September 4, 1958

Survey commenced October 16, 1958

Survey completed October 28, 1958

INDEX DIAGRAM

Township 37 South, Range 13 East

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	11				6
31 10	32 10	33	34	35 5	36 1

2466

Township 37 South, Range 13 East

Chains

The west boundary was surveyed by R. C. Yundt in 1930. The south boundary was surveyed by Vern E. Lane and associates in 1957 in connection with the survey of T. 38 S., R. 13 E. The north boundary was surveyed concurrently under this same group and the record appears in the field notes of T. 36 S., R. 13 E.

The following field notes represent the survey of the east boundary by transit and chain and a portion of the subdivisional lines by photogrammetric processes. The calculation of coordinates of all points and courses and distances between corners is based upon positions of U. S. Geological Survey triangulation stations and auxiliary triangulation stations established by the Bureau of Land Management by the 3-point method. The coordinates of each corner position were pre-determined and each corner established by reference to three photo-identifiable objects whose coordinates were determined by photogrammetric methods. A plane table, alidade and a 2-chain steel tape were used in determining the true corner point.

Survey of the east boundary was executed with a W. & L. E. Gurley transit, serial No. 570621, equipped with full vertical circle and telescopic solar attachment. It is constructed in accordance with the standard instrumental specifications of the Bureau of Land Management. The instrument was maintained in precise adjustment throughout the progress of the survey. Measurements along this boundary were made with a narrow steel tape, 8 chains in length, graduated every link for the first 100 links and thereafter at intervals of 10 links. The tape was tested by comparison with a standard steel tape and found to be correct. Directions of the lines of this survey were determined generally by direct altitude observations on the sun for azimuth taken throughout the course of the survey.

All subdivisional corners established are calculated to be at the position they would occupy if the entire township were subdivided.

The geographic position of the southeast corner of the township is in latitude 37° 31' 10.443" N. and longitude 110° 25' 09.060" W., as determined from ties to triangulation stations in the area.

The magnetic declination was read at a number of stations throughout the course of this survey and was determined to be 15° E.

Survey of the East Boundary of T. 37 S., R. 13 E.

From the cor. of Tps. 37 and 38 S., Rs. 13 and 14 E., monumented with an iron post, 3 ins. diam., set, mkd. and witnessed as described in the official record.

North, bet. secs. 31 and 36; asc. along general SE. slope.

6.50 Wash, drains SE.; asc. over S. slope.

8.00 Spur, projects SE.; asc. 170 ft. along E. side of spur.

18.50 Asc. 450 ft. over steep broken S. slope to top of spur sloping NE.

40.00 Point for the ¼ sec. cor. of secs. 31 and 36.

Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, in a mound of stone to top, with brass cap mkd.

Survey of the East Boundary of T. 37 S., R. 13 E.

Chains

T37S
R13E R14E
*
S36|S31
1958

Desc. 150 ft. over N. slope.

63.50 Slope changing from N. to NW.; desc. 140 ft. to sec. cor.

80.00 Point for the cor. of secs. 25, 30, 31 and 36.

Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, in a mound of stone to top, with brass cap mkd.

T37S
R13E R14E
S25|S30
S36|S31
1958

Land, rough and broken.

Soil, thin sand layer interspersed with broken sandstone.

Timber, sparse juniper.

Undergrowth, sparse growth of black brush, shadscale, Brigham tea, cactus and native grasses.

North, bet. secs. 25 and 30.

Desc. 420 ft. over broken NW. slope.

25.00 Wash in bottom of canyon draining SW.; asc. over broken W. slope of draw.

39.00 Point selected for the witness ¼ sec. cor. of secs. 25 and 30.

Set an iron post, 20 ins. long, 1 in. diam., 6 ins. in the ground, in a mound of stone to top, with brass cap mkd.

T37S R13E
W C
¼
S25↑S30
1958

Cor. is on solid sandstone face of spur sloping SW., 1 ch. W. of crest; cont. along broken W. slope of draw.

40.00 Point for the ¼ sec. cor. of secs. 25 and 30. falls on steep broken sandstone slopes where cor. cannot be perpetuated.

47.50 Begin steep ascent over S. slope.

53.00 Top of steep ascent; cont. over rolling land sloping westerly.

73.00 Desc. 200 ft. over steep N. slope to sec. cor.

80.00 Point for the cor. of secs. 19, 24, 25 and 30.

Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, in a mound of stone to top, with brass cap mkd.

T37S
R13E R14E
S24|S19
S25|S30
1958

Survey of the East Boundary of T. 37 S., R. 13 E.

Chains

Land, rough and broken.
Soil, sand with broken sandstone.
Timber, sparse juniper.
Undergrowth, black brush, shadscale, Brigham tea, cactus and native grasses.

North, bet. secs. 19 and 24.

Desc. 120 ft. along NW. slope.

21.00

Wash in canyon, drains NW.; cont. along bottom of canyon.

39.10

Wash, drains W. to junction with previous wash.

40.00

Point for the $\frac{1}{2}$ sec. cor. of secs. 19 and 24.

Set an iron post, 1 in. diam., 20 ins. long, 6 ins. in the ground, in a mound of stone to top, with brass cap mkd.

T37S

R13E R14E

$\frac{1}{2}$

S24 | S19

1958

Asc. 150 ft. along SW. slope.

62.00

Base of steep and broken SW. slope of spur; asc. 250 ft. to top.

71.00

Top of spur, projects W.; desc. 160 ft. over NW. slope to sec. cor.

80.00

Point for the cor. of secs. 13, 18, 19 and 20.

Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., 14 ins. in the ground, in a mound of stone to top, with brass cap mkd.

T37S

R13E R14E

S13 | S18

S24 | S19

1958

Land, rough and broken.
Soil, sandy with broken or bare sandstone.

Timber, sparse juniper.

Undergrowth, sparse growth of black brush, shadscale, Brigham tea, cactus and native grasses.

North, bet. secs. 13 and 18.

Desc. slightly over NW. slope.

10.60

Wash, drains SW.; asc. 200 ft. to $\frac{1}{2}$ sec. cor.

40.00

Point for the $\frac{1}{2}$ sec. cor. of secs. 13 and 18 on top of spur sloping SW.

Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., in bedrock in a mound of stone to top, with brass cap mkd.

Survey of the East Boundary of T. 37 Sec. 13. E.

Chains	Description	Remarks
	<p style="text-align: center;">T37S R13E R14E S13 S18 1958</p>	
	Cor. point is 6 chs. W. of sandstone knob.	
	Desc. over N. slope.	
49.50	Begin descent of 120 ft. to bottom of canyon.	
57.50	Wash in canyon, drains SW.; asc. broken south slope to sec. cor.	
80.00	Point for the cor. of secs. 7, 12, 13 and 18 on steep S. slope.	
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, in a mound of stone to top, with brass cap mkd.	
	T37S R13E R14E S12 S 7 S13 S18 1958	
	Land, rough and broken. Soil, thin sand layer interspersed with sandstone. Timber, sparse juniper. Undergrowth, sparse growth of black brush; shadscale, Brigham tea, cactus and native grasses.	
	North, bet. secs. 7 and 12.	
	Asc. 200 ft. over S. slope.	
22.50	Top of steep ascent; cont. over rolling land.	
40.00	Point for the ½ sec. cor. of secs. 7 and 12.	
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, in a mound of stone to top, with brass cap mkd.	
	T37S R13E R14E S12 S 7 1958	
	Cont. over general S. slope.	
80.00	Point for the cor. of secs. 1, 6, 7 and 12.	
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, in a mound of stone to top, with brass cap mkd.	
	T37S R13E R14E S12 S 6 1958	
	Land, rolling south slope. Soil, sandy. Timber, sparse juniper. Undergrowth, sparse growth of black brush, shadscale, Brigham tea, cactus and native grasses.	

Survey of the East Boundary of T. 37 S., R. 13 E.

Chains

North, bet. secs. 1 and 6.
Over rolling N. slope of Mancos Mesa.

40.00

Point for the 1/4 sec. cor. of secs. 1 and 6.
Set an iron post, 30 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, in a collar of stone, with brass cap mkd.

T37S
R13E R14E
1/4
S1 | S6
1958

Deposit mkd. stone alongside iron post.
Cont. over N. slope.

80.00

Point for the cor. of Tps. 36 and 37 S., Rs. 13 and 14 E.
Set an iron post, 30 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, in a mound of stone to top, with brass cap mkd.

T36S
S36 | S31
S1 | S6
T37S
1958

Land, rolling N. slope.
Soil, sandy.
Timber, sparse juniper.
Undergrowth, sparse growth of black brush, shadscale, Brigham tea and native grasses.

Survey of a Portion of the Subdivisional Lines of T. 37 S., R. 13 E.

Survey executed by photogrammetric processes. Topography is omitted from these field notes, but is shown upon the plat from U. S. Geological Survey quadrangles.

Beg. at the cor. of secs. 1, 2, 35 and 36, on the S. bdy. of the Tp. monumented by an iron post, 2 1/2 ins. diam., set, mkd. and witnessed as described in the official record.

N. 0° 01' W., bet. secs. 35 and 36.

40.00

Point for the 1/4 sec. cor. of secs. 35 and 36.
Set an iron post, 30 ins. long, 2 1/2 ins. diam., on bedrock, in a mound of stone to top, with brass cap mkd.

T37S R13E
1/4
S35 | S36
1958

80.00

Point for the cor. of secs. 25, 26, 35 and 36, at the foot of a steep N. slope approx. 3 chs. N. of small knoll.
Set an iron post, 30 ins. long, 2 1/2 ins. diam., on bedrock, in a mound of stone to top, with brass cap mkd.

Survey of a Portion of the Subdivisional Lines of T. 37 S., R. 13 E.

Chains

T37S R13E
 S26|S25
 S35|S36
 1958

Land, first 55 chs. rolling W. slope, the remainder is steep broken slopes of canyon.
 Soil, thin sand layer interspersed with broken or bare sandstone.
 Timber, sparse juniper.
 Undergrowth, sparse growth of black brush, shadscale, Brigham tea, cactus and native grasses.

From the cor. of secs. 25, 30, 31 and 36, on the E. bdy. of the Tp.
 N. 89° 57' W., bet. secs. 25 and 36.

40.00

Point for the $\frac{1}{4}$ sec. cor. of secs. 25 and 36, at the base of a blazed juniper, 6 ins. diam.

Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., 4 ins. in the ground, in a mound of stone to top, with brass cap mkd.

T37S R13E
 $\frac{1}{4}$ S25°
 S36
 1958

80.00

The cor. of secs. 25, 26, 35 and 36.

Land, steep broken slopes of canyon.
 Soil, thin sand layer and broken sandstone.
 Timber, sparse juniper.
 Undergrowth, sparse growth of shadscale, black brush and Brigham tea.

Beg. at the cor. of secs. 1, 2, 35 and 36 on the N. bdy. of the Tp., monumented by an iron post, 2 $\frac{1}{2}$ ins. diam., set, mkd. and witnessed as described in the field notes of T. 36 S., R. 13 E., surveyed concurrently under this same group.

S. 0° 01' E., bet. secs. 1 and 2.

40.00

Point for the $\frac{1}{4}$ sec. cor. of secs. 1 and 2.

Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., 6 ins. in the ground, in a mound of stone, with brass cap mkd.

T37S R13E
 $\frac{1}{4}$
 S2|S1
 1958

Asc. 250 ft. over NW. slope to sec. cor.

80.00

Point for the cor. of secs. 1, 2, 11 and 12, on top of sandy spur sloping W.

Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., 6 ins. in the ground, in a mound of stone to top, with brass cap mkd.

T37S R13E
 S2|S1
 S11|S12
 1958

Survey of a Portion of the Subdivisional Lines of T. 37 S., R. 13 E.

Chains	
	Land, rough sandstone slopes.
	Soil, sandy.
	Timber, sparse juniper.
	Undergrowth, sparse growth of black brush, shadscale, Brigham tea, cactus and native grasses.
	N. 89° 58' W., bet. secs. 2 and 11.
	Desc. along NW. slope.
40.00	Point for the cor. of secs. 2 and 11.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, in a mound of stone to top, with brass cap mkd.
	T37S R13E
	S 2°
	S11
	1958
80.00	Point for the cor. of secs. 2, 3, 10 and 11, on SW. slope of knoll.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, in a mound of stone to top, with brass cap mkd.
	T37S R13E
	S3 S2
	S10 S11
	1958
	Land, E. ½ mile sloping NW., S. ½ mile slopes generally SW.
	Soil, thin sand layer interspersed with bare sandstone.
	Timber, sparse juniper.
	Undergrowth, sparse growth of black brush, shadscale, cactus, Brigham tea and native grasses.
40.00	N. 0° 02' W., bet. secs. 2 and 3.
40.00	Point for the ¼ sec. cor. of secs. 2 and 3 falls on a steep broken SE slope of canyon where monument cannot be perpetuated.
42.45	Point selected for the witness ¼ sec. cor. of secs. 2 and 3.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, in a mound of stone to top, with brass cap mkd.
	T37S R13E
	S3 S2
	1958
80.00	The cor. of secs. 2, 3, 34 and 35, monumented by an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of T. 36 S., R. 13 E., surveyed concurrently under this same group.
	Land, rough and broken canyon walls.
	Soil, thin sand layer interspersed with broken sandstone.
	Timber, sparse juniper.
	Undergrowth, sparse growth of black brush, shadscale, Brigham tea, cactus and native grasses.

Survey of a Portion of the Subdivided Line of T. 37 S., R. 13 E.

Chains

At a point N. 0° 02' W., 240.00 chs. distant from the corner of secs. 3, 4, 33 and 34, on the S. bdy. of the Tp., which is monumented by an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the official record, point for the cor. of secs. 15, 16, 21 and 22.

Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground in a mound of stone to top, with brass cap mkd.

T37S R13E

S16 | S15
S21 | S22

1958

Thence

N. 0° 02' W., bet. secs. 15 and 16.

40.00

Point for the ¼ sec. cor. of secs. 15 and 16, in Cedar Canyon.

Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground with brass cap mkd.

T37S R13E

S16 | S15

1958

Deposit rock mkd. X alongside iron post.

Cont. across Cedar Canyon.

80.00

Point for the cor. of secs. 9, 10, 15 and 16 on S. slope.

Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground, in a mound of stone to top, with brass cap mkd.

T37S R13E

S 9 | S10

S16 | S15

1958

Note: This cor. was inadvertently mkd. W. G.

Land, broken walls of Cedar Canyon. Soil, thin sand layer interspersed with broken sandstone.

Timber, sparse juniper.

Undergrowth, sparse growth of black brush, shade and native grasses.

From the cor. of secs. 15, 16, 21 and 22.

N. 89° 58' W., bet. secs. 16 and 21.

40.00

Point for the ¼ sec. cor. of secs. 16 and 21.

Set an iron post, 30 ins. long, 2½ ins. diam., on bedrock, in a mound of stone to top, with brass cap mkd.

T37S R13E

S16 | S15

S21 | S22

1958

Cont. along SW. slope.

Survey of a Portion of the Subdivisional Lines of T. 37 S., R. 13 E.

Chains 80.00	<p>Point for the cor. of secs. 16, 17, 20 and 21.</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, in a mound of stone to top, with brass cap mkd.</p> <p>T37S R13E S17 S16 820 S21 1958</p>
40.00	<p>Land, rolling sandstone slopes.</p> <p>Soil, thin sand layer interspersed with bare sandstone.</p> <p>Timber, sparse juniper.</p> <p>Undergrowth, sparse growth of black brush, shadscale, Brigham tea, cactus and native grasses.</p>
80.00	<p>N. 0° 03' W., bet. secs. 16 and 17.</p> <p>Asc. over S. slope.</p> <p>Point for the ¼ sec. cor. of secs. 16 and 17.</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground, in a mound of stone to top, with brass cap mkd.</p> <p>T37S R13E ¼ S17 S16 1958</p>
40.00	<p>Desc. over N. slope to sec. cor.</p> <p>Point for the cor. of secs. 8, 9, 16 and 17.</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, in a mound of stone to top, with brass cap mkd.</p> <p>T37S R13E S8 S9 S17 S16 1958</p>
80.00	<p>Land, rolling sandstone slopes.</p> <p>Soil, thin sand layer interspersed with bare sandstone.</p> <p>Timber, sparse juniper.</p> <p>Undergrowth, sparse growth of black brush, shadscale, Brigham tea, cactus and native grasses.</p>
80.00	<p>From the cor. of secs. 9, 10, 15 and 16.</p> <p>N. 89° 58' W., bet. secs. 9 and 16.</p>
40.00	<p>Asc. over E. slope out of Cedar Canyon.</p> <p>Point for the ¼ sec. cor. of secs. 9 and 16, on N. slope.</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., on bedrock, in a mound of stone to top, with brass cap mkd.</p> <p>T37S R13E ¼ S9 S16 1958</p>

Survey of a Portion of the Subdivision of the ... of T37S R13E

Chains		and/or
80.00	<p>Cont. along N. slope, ...</p> <p>The cor. of secs. 8, 9, 16 and 17. ...</p> <p>Land, E½ mile, broken canyon; W½ mile rolling N. slope.</p> <p>Soil, thin sand layer interspersed with sandstone.</p> <p>Timber, sparse juniper.</p> <p>Undergrowth, sparse growth of black brush, shadscale, Brigham tea, cactus and native grasses.</p>	<p>00.08</p> <p>21 and 22.</p> <p>the ground</p>
40.00	<p>From the true point for the cor. of secs. 4, 5, 32 and 33, on the S. bdy. of the Tp. which is witnessed by an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the official record.</p> <p>N. 0° 03' W., bet. secs. 32 and 33.</p> <p>Asc. 600 ft. to ¼ sec. cor.</p> <p>Point for the ¼ sec. cor. of secs. 32 and 33.</p>	<p>chs. dist.</p> <p>as described</p>
80.00	<p>Set an iron post, 30 ins. long, 2½ ins. diam., on bedrock, in a mound of stone to top, with brass cap mkd.</p> <p style="text-align: center;">T37S R13E S32 S33 1958</p> <p>Desc. over NW. slope.</p>	<p>00.04</p> <p>in a mound</p>
80.00	<p>Point for the cor. of secs. 28, 29, 32 and 33.</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., on bedrock and in a mound of stone to top, with brass cap mkd.</p> <p style="text-align: center;">T37S R13E S29 S28 S32 S33 1958</p> <p>Land, rough and broken.</p> <p>Soil, thin sand layer interspersed with broken sandstone.</p> <p>Timber, sparse juniper.</p> <p>Undergrowth, sparse growth of black brush, shadscale, Brigham tea, cactus and native grasses.</p>	<p>(0.08)</p> <p>and in a</p>
40.00	<p>From the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the Tp., on the W. edge of a small brush covered mesa, monumented by an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the official record.</p> <p>N. 0° 03' W., bet. secs. 31 and 32.</p> <p>Point for the ¼ sec. cor. of secs. 31 and 32 falls near wash and not practical to monument this point.</p>	<p>the official</p>
40.50	<p>Point selected for the witness ¼ sec. cor. of secs. 31 and 32.</p> <p>Set an iron post, 25 ins. long, 1 in. diam., on solid sandstone, in a mound of stone, 3½ ft. base to top, with brass cap mkd.</p>	<p>and 32.</p>

Survey of a Portion of the Subdivisional Lines of T. 37 S., R. 13 E.

Chains

T37B R13E
S31|S32
W C
1958

Cont. over S. slope.

80.00

Point for the cor. of secs. 29, 30, 31 and 32.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., on bedrock, in a mound of stone to top, with brass cap mkd.

T37S R13E
S30|S29
S31|S32
1958

Land, rough and broken.
Soil, thin sand layer interspersed with broken and bare sandstone.
Timber, sparse juniper.
Undergrowth, sparse growth of black brush, shadscale, Brigham tea, cactus and native grasses.

From the cor. of secs. 28, 29, 32 and 33.

N. 89° 57' W., bet. secs. 29 and 32.

Desc. over general SW. slope.

40.00

Point for the 1/4 sec. cor. of secs. 29 and 32.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., on bedrock, in a mound of stone to top, with brass cap mkd.

T37S R13E
1/4 S29
1958

Cor. falls on southerly slope about 5 chs. E. of sandstone knob.

80.00

The cor. of secs. 29, 30, 31 and 32.

Land, rough and broken.
Soil, thin sand layer interspersed with bare sandstone.
Timber, sparse juniper.
Undergrowth, sparse growth of black brush, shadscale, Brigham tea, cactus and native grasses.

General Description

This township consists mainly of broken mesas, interspersed with deep eroded washes. Where there is soil cover it is principally sand with numerous sandstone outcroppings, covered with black brush, shadscale, Brigham tea and native grasses.

Very little timber is noted in this township. There has been activity in prospecting for uranium in the area during the past year.

CERTIFICATE OF CADASTRAL ENGINEER

X We, Leslie H. Godwin and Dell Cazier, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 13th day of May, 1960

~~we~~ I have surveyed the east boundary and a portion of the subdivisional lines of T. 37 S., R. 13 E.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by ~~me~~ ^{us} and under ~~my~~ ^{our} direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Salt Lake City, Utah
January 22, 1960

Leslie H. Godwin
Leslie H. Godwin, Cadastral Surveyor
Dell Cazier
Dell Cazier, Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., APR 13 1960, 1960

The foregoing field notes of the survey of the east and north boundaries and a portion of the subdivisional lines of T. 37 S., R. 13 E., Salt Lake Meridian, Utah

executed by Leslie H. Godwin and Dell Cazier, Cadastral Surveyors having been critically examined and found correct, are hereby approved.

James B. Cline
Cadastral Engineering Staff Officer.

CERTIFICATE OF TRANSCRIPT

~~I CERTIFY that the foregoing transcript of the field notes of the above described surveys in T. 37 S., R. 13 E., SLM, Utah, is a true copy of the original field notes.~~

~~Cadastral Engineering Staff Officer.~~

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE SURVEY OF

A PORTION OF THE

SUBDIVISIONAL LINES

OF

TOWNSHIP 37 SOUTH, RANGE 14 EAST

Of the Salt Lake Meridian,

in the State of Utah

EXECUTED BY

Leslie H. Godwin, Cadastral Surveyor

Dell Cazier, Cadastral Surveyor

Under special instructions dated May 13, 1955, which provided

for the surveys included under Group No. 405, approved May 31, 1955

and assignment instructions dated September 4, 1958

Survey commenced October 16, 1958

Survey completed October 22, 1958

INDEX DIAGRAM

Township 37 South, Range 14 East

6	5	4	3 4	2 3	1
				3	
7	8	9	10	11	12
		6			
13	17 5	16	15	14	13
		5			
19	20	21	22	23	24
29	29	28	27	26	25
	7				2
31 6	32 6	33	34	35 1	36

GPO 866119

2467

Township 37 South, Range 14 East

Chains

The east boundary was surveyed by Robert C. Yundt in 1930 and the south boundary by Dell Cazier in 1937. The north and west boundaries were surveyed concurrently under this same group by Leslie H. Godwin and Dell Cazier and the record appears in the field notes of T. 36 S., R. 14 E. and T. 37 S., R. 13 E., respectively.

The following field notes represent the survey of a portion of the subdivisional lines by transit and chain and a portion of the subdivisional lines by photogrammetric processes.

The calculation of coordinates of all points and courses and distances between corners is based upon positions of U. S. Geological Survey triangulation stations and auxiliary triangulation stations established by the Bureau of Land Management by the three-point method. The coordinates of each corner position were predetermined and each corner established by reference to three photo identifiable objects whose coordinates were determined by photogrammetric methods. A plane table, alidade and a two-chain steel tape were used in determining the true corner point.

Survey of the subdivisional lines of section 36 was executed with a W. & L. E. Gurley transit, serial No. 570621, equipped with full vertical circle and telescopic solar attachment. It is constructed in accordance with the standard instrumental specifications of the Bureau of Land Management. The instrument was maintained in precise adjustment throughout the progress of the survey. Measurements along these lines were made with a narrow steel tape, 8 chains in length graduated every link for the first 100 links and thereafter at intervals of 10 links. The tape was tested by comparison with a standard steel tape and found to be correct. Directions of the lines of this survey were determined generally by direct altitude observations on the sun for azimuth taken throughout the course of this survey.

All subdivisional corners established are calculated to be at the position they would occupy if the entire township were subdivided.

The geographic position of the southeast corner of the township as determined from ties to triangulation stations within the area, is latitude 37° 31' 10.312" N. and longitude 110° 18' 37.819" W.

The magnetic declination was read at a number of stations throughout the course of this survey and was determined to be 15° East.

Survey of a Portion of the Subdivisional Lines, T. 37 S., R. 14 E.

From the cor. of secs. 1, 2, 35 and 36, on the S. bdy. of the Tp. Monumented by an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the official record.

N. 0° 01' W., bet. secs. 35 and 36, across bottom of Moqui Canyon.

2.00

Branch wash, drains S. 70° W.

14.50

Branch wash, drains SW.; asc. over S. slope.

31.50

W. side of small knoll; cont. ascent over SE. slope.

40.00

Point for the ¼ sec. cor. of secs. 35 and 36 falls on steep and broken slope of canyon where monument cannot be perpetuated.

Asc. 250 ft. over SE. slope of canyon.

50.90

Point selected for the witness ¼ sec. cor. of secs. 35 and 36.

Survey of a Portion of the Subdivisional Lines, T. 37 S., R. 14 E.

Chains	said'
	<p>Set an iron post, 30 ins. long, 2½ ins. diam., on bedrock, over a chiseled cross (X) and in a mound of stone, 4 ft. base, with brass cap mkd.</p> <p style="text-align: center;">T37S R14E $\frac{1}{2}$ S35 S36 W C 1958</p>
	<p>Asc. 100 ft. to saddle.</p>
68.50	Saddle in ridge; asc. SW. to W. slope.
80.00	Point for the cor. of secs. 25, 26, 35 and 36.
	<p>Set an iron post, 30 ins. long, 2½ ins. diam., over a chiseled cross (X) on bedrock, in a mound of stone, 4 ft. base, with brass cap mkd.</p> <p style="text-align: center;">T37S R14E S26 S25 S35 S36 1958</p>
	<p>Land, broken sandstone slopes of canyon. Soil, thin sand layer. Timber, sparse juniper. Undergrowth, sparse growth of black brush, shadscale, Brigham tea, cactus and native grasses.</p>
	<p>From the cor. of secs. 25, 30, 31 and 36, on the E. bdy. of the Tp., monumented by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record.</p> <p>N. 89° 57' W., bet. secs. 25 and 36.</p> <p>Desc. 320 ft. over broken W. slope.</p>
29.50	Wash, in canyon, drains SW.; asc. 150 ft. over SE. slope to ¼ sec. cor.
40.02	Point for the ¼ sec. cor. of secs. 25 and 36.
	<p>Set an iron post, 30 ins. long, 2½ ins. diam., over a chiseled cross (X) on bedrock, in a mound of stone, 4 ft. base, with brass cap mkd.</p> <p style="text-align: center;">T37S R14E $\frac{1}{4}$ S25 S36 1958</p>
	<p>Asc. along steep SE. slope.</p>
45.50	Top of spur, projects SW.; desc. along W. slope.
58.00	Draw, drains SW.; asc. SE. slope.
74.00	Top of spur, projects SW.; desc. W. slope to sec. cor.
80.04	The cor. of secs. 25, 26, 35 and 36.
	<p>Land, rough and broken. Soil, thin sand layer. Timber, sparse juniper. Undergrowth, sparse growth of black brush, shadscale, Brigham tea, cactus and native grasses.</p>

Survey of a Portion of the Subdivisional Lines, T. 37 S., R. 14 E.,
by Photogrammetric Processes

Chains

Topography is omitted from these field notes as topographic overlays furnished by the U. S. Geological Survey are shown upon the plat.

At the ~~XXXXXX~~ point for the cor. of secs. 1, 2, 11 and 12.

Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, in a mound of stone, 4 ft. base, with brass cap mkd.

T37S R14E
S2 | S1
S11 | S12
1958

Thence N. 0° 01' W., bet. secs. 1 and 2.

40.00 Point for the ¼ sec. cor. of secs. 1 and 2.

Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, in a mound of stone, 3 ft. base, with brass cap mkd.

T37S R14E
¼
S2 | S1
1958

80.00 The true point for the cor. of secs. 1, 2, 35 and 36, on the N. bdy. of the Tp. which is witnessed S. 89° 58' E., 1:50 chs. dist. by an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of T. 36 S., R. 14 E., surveyed concurrently under this same group.

Land, rough and broken.
Soil, thin sand layer over broken sandstone.
Timber, thinly scattered juniper.
Undergrowth, sparse growth of black brush, shadscale, Brigham tea, cactus and native grasses.

From the cor. of secs. 1, 2, 11 and 12:

N. 89° 58' W., bet. secs. 2 and 11.

40.00 Set an iron post, 30 ins. long, 2½ ins. diam., over a chiseled cross (X) on bedrock; in a mound of stone, 4 ft. base, with brass cap mkd.

T37S R14E
¼
S 2
S11
1958

Thence across Red Canyon:

80.00 Point for the cor. of secs. 2, 3, 10 and 11.

Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground, in a mound of stone, 4 ft. base, with brass cap mkd.

T37S R14E
S3 | S2
S10 | S11
1958

Land, rough and broken.
Soil, thin sand layer.
Timber, thinly scattered juniper.
Undergrowth, sparse growth of black brush, Brigham tea, shadscale, cactus and native grasses.

Survey of a Portion of the Subdivisional Lines, T. 37 S., R. 14 E.

Chains		anted O
40.00	<p>Point for the $\frac{1}{2}$ sec. cor. of secs. 2 and 3.</p> <p>Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 18 ins. in the ground, in a mound of stone, 3 ft. base, with brass cap mkd.</p> <p style="text-align: center;">T37S R14E $\frac{1}{2}$ S3 S2 1958</p>	over a
80.00	<p>The cor. of secs. 2, 3, 34 and 35, on the N. bdy. of the Tp., monumented by an iron post, $2\frac{1}{2}$ ins. diam., set, mkd. and witnessed as described in the field notes of T. 36 S., R. 14 E., surveyed concurrently under this same group.</p> <p>Land, rough and broken. Soil, thin sand layer over broken sandstone. Timber, thinly scattered juniper. Undergrowth, sparse growth of black brush, Brigham tea, shadscale, cactus and native grasses.</p>	04.00
40.00	<p>At a point N. 0° 02' W., 240.00 chs. dist. from the cor. of secs. 3, 4, 33 and 34, on the S. bdy. of the Tp., monumented by an iron post, $2\frac{1}{2}$ ins. diam., set, mkd. and witnessed as described in the official record, point for the cor. of secs. 15, 16, 21 and 22.</p> <p>Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., over a chiseled cross (X) on bedrock, in a mound of stone, 4 ft. base, with brass cap mkd.</p> <p style="text-align: center;">T37S R14E S16 S15 S21 S22 1958</p> <p>Thence</p> <p>N. 0° 02' W., bet. secs. 15 and 16.</p>	
40.00	<p>Point for the $\frac{1}{2}$ sec. cor. of secs. 15 and 16.</p> <p>Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 14 ins. in the ground, in a mound of stone, 3 ft. base, with brass cap mkd.</p> <p style="text-align: center;">T37S R14E $\frac{1}{2}$ S16 S15 1958</p>	04.00
80.00	<p>Point for the cor. of secs. 9, 10, 15 and 16.</p> <p>Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 3 ins. in the ground, in a mound of stone, 4 ft. base, with brass cap mkd.</p> <p style="text-align: center;">T37S R14E S 9 S10 S16 S15 1958</p> <p>Land, sandstone slopes. Soil, thin sand layer. Timber, thinly scattered juniper. Undergrowth, sparse growth of black brush, shadscale, Brigham tea, cactus and native grasses.</p>	

Survey of a Portion of the Subdivisional Lines, T. 37 S., R. 14 W.

Chains

From the cor. of secs. 15, 16, 21 and 22.

N. 89° 57' W., bet. secs. 16 and 21.

40.00

Point for the 1/4 sec. cor. of secs. 16 and 21.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., over a chiseled cross (X) on bedrock, in a mound of stone, with brass cap mkd.

T37S R14E
1/4 S16
S21
1958

80.00

Point for the cor. of secs. 16, 17, 20 and 21.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., over a chiseled cross (X) cut on bedrock, in a mound of stone, 4 ft. base, with brass cap mkd.

T37S R14E
S17 | S16
S20 | S21
1958

Land, rough and broken.
Soil, thin sand layer over broken sandstone.
Timber, thinly scattered juniper.
Undergrowth, sparse growth of black brush, shadscale, Brigham tea, cactus and native grasses.

N. 0° 03' W., bet. secs. 16 and 17.

40.00

Point for the 1/4 sec. cor. of secs. 16 and 17.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 6 ins. in the ground, in a mound of stone, 4 ft. base, with brass cap mkd.

T37S R14E
1/4
S17 | S16
1958

80.00

Point for the cor. of secs. 8, 9, 16 and 17.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 6 ins. in the ground, in a mound of stone, 4 ft. base, with brass cap mkd.

T37S R14E
S8 | S9
S17 | S16
1958

Land, steep and broken.
Soil, thin sand layer.
Timber, sparse juniper.
Undergrowth, sparse growth of black brush, shadscale, Brigham tea, cactus and native grasses.

Survey of a Portion of the Subdivided State, Twp. 14E, R. 14E

Chains		miled O
40.00	<p>From the cor. of secs. 9, 10, 15 and 16. 30 rods and more N. 89° 58' W., bet. secs. 9 and 16. 30 rods and more Point for the $\frac{1}{4}$ sec. cor. of secs. 9 and 16. 30 rods and more</p>	00.00
80.00	<p>Set an iron post, 30 ins. long, 2$\frac{1}{2}$ ins. diam., over a chiseled cross (X) on bedrock, in a mound of stone, 4 ft. base, with brass cap mkd. T37S R14E $\frac{1}{4}$ $\frac{89}{S16}$ 1958</p>	00.00
80.00	<p>The cor. of secs. 8, 9, 16 and 17. Land, rough and broken. Soil, thin sand layer. Timber, thinly scattered juniper. Undergrowth, sparse growth of shadscale, black brush, Brigham tea, cactus and native grasses.</p>	00.00
40.00	<p>From the cor. of secs. 4, 5, 32 and 33 on the S. bdy. of the Tp., which is monumented by an iron post, 2$\frac{1}{2}$ ins. diam., set, mkd. and witnessed as described in the official record. N. 0° 03' W., bet. secs. 32 and 33. Point for the $\frac{1}{4}$ sec. cor. of secs. 32 and 33. Set an iron post, 30 ins. long, 2$\frac{1}{2}$ ins. diam., 8 ins. in the ground, in a mound of stone, 4 ft. base, with brass cap mkd. T37S R14E $\frac{1}{4}$ $\frac{S32 S33}{1958}$</p>	00.00
80.00	<p>Point for the cor. of secs. 28, 29, 32 and 33. Set an iron post, 2$\frac{1}{2}$ ins. diam., over a chiseled cross (X) and in a mound of stone, 3 ft. base, with brass cap mkd. T37S R14E $\frac{S29 S28}{S32 S33}$ 1958 Land, broken sandstone slope. Soil, thin sand layer. Timber, thinly scattered juniper. Undergrowth, sparse growth of black brush, shadscale, Brigham tea, cactus and native grasses.</p>	00.00
40.00	<p>From the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the Tp., monumented by an iron post, 2$\frac{1}{2}$ ins. diam., set, mkd. and witnessed as described in the official record. N. 0° 03' W., bet. secs. 31 and 32. Point for the $\frac{1}{4}$ sec. cor. of secs. 31 and 32.</p>	00.00

Survey of a Portion of the Subdivisional Lines, T. 37 S., R. 14 E.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., over a chiseled cross (X) on bedrock, in a mound of stone, $3\frac{1}{2}$ ft. base, with brass cap mkd.

T37S R14E

$\frac{1}{4}$

S31|S32

1958

80.00

Point for the cor. of secs. 29, 30, 31 and 32.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 10 ins. in the ground, in a mound of stone, 4 ft. base, with brass cap mkd.

T37S R14E

S30|S29

S31|S32

1958

Land, rolling sandstone.

Soil, thin sand layer.

Timber, thinly scattered juniper.

Undergrowth, sparse growth of black brush, shadscale, Brigham tea, cactus and native grasses.

From the cor. of secs. 28, 29, 32 and 33.

N. $89^{\circ} 56'$ W., bet. secs. 29 and 32.

40.00

Point for the $\frac{1}{4}$ sec. cor. of secs. 29 and 32.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 8 ins. in the ground, in a mound of stone, 4 ft. base, with brass cap mkd.

T37S R14E

$\frac{1}{4}$ S29

S32

1958

80.00

The cor. of secs. 29, 30, 31 and 32.

Land, rolling sandstone.

Soil, thin sand layer.

Timber, thinly scattered juniper.

Undergrowth, sparse growth of black brush, Brigham tea, shadscale, cactus and native grasses.

General Description

This township consists mainly of broken mesas with deep eroded washes. The northeast portion of the township is drained by Red Canyon, which drains northwesterly leaving the township on the north boundary of section 3. The south half of the township is drained by Moqui Canyon which drains westerly and leaves the township on the south boundary of section 32. Cedar Canyon heads in section 16 and drains southwesterly leaving the township at the $\frac{1}{4}$ section corner of section 19.

Very little timber was noted in the township. Evidence of prospecting for uranium was noted in this township.

CERTIFICATE OF CADASTRAL ENGINEER

We, XX Leslie H. Godwin and Dell Cazier, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 13th day of May, 1959, we have surveyed a portion of the subdivisional lines of T. 37 S., R. 14 E.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by ~~me~~ ^{us} and under ~~my~~ ^{our} direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Salt Lake City, Utah
January 16, 1959

Leslie H. Godwin
Leslie H. Godwin, Cadastral Surveyor
Dell Cazier
Dell Cazier, Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., APR 13 1960, 19

The foregoing field notes of the survey of a portion of the subdivisional lines of T. 37 S. R. 14 E., Salt Lake Meridian, Utah

executed by Leslie H. Godwin and Dell Cazier, Cadastral Surveyors having been critically examined and found correct, are hereby approved.

Donald Clement
Cadastral Engineering Staff Officer

CERTIFICATE OF TRANSCRIPT

~~I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in T. 37 S. R. 14 E., SLM, Utah, is a true copy of the original field notes.~~

~~Cadastral Engineering Staff Officer~~

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Original

FIELD NOTES

of the

Survey of

The East Boundary

and a

Portion of the

Subdivision

of

Township 37 South, Range 17 East

Of the Salt Lake Meridian,

in the State of Utah

EXECUTED BY

Vern E. Lane Cadastral Surveyor (Chief of Party)

Dell Cazier Cadastral Surveyor

Boyd S. Owens Cartographic Survey Aid

Craig P. Sylvester Cartographic Survey Aid

Under special instructions dated April 2, 1957, which provided

for the surveys included under Group No. 406, approved April 10, 1957

and assignment instructions dated June 14, 1957

Survey commenced July 12, 1957

Survey completed August 2, 1957

INDEX DIAGRAM

Township 37 South, Range 17 East

6	5	4	10	8	2	1	5
7	8	9	9	10	11	12	4
18	17	14	16	15	14	18	4
19	20	21	8	22	28	24	3
30	29	28	7	27	26	25	2
31	16	32	15	33	7	34	1

16-58770-1

Dell Cazier _____
 Boyd Owens _____
 Craig Sylvester _____

Township 37 South, Range 17 East

Chains

The west boundary of T. 37 S., R. 17 E. of the Salt Lake Meridian, Utah was surveyed in 1929 by Charles F. Moore and Robert C. Yundt. The north boundary was surveyed by Robert C. Yundt in 1931. The south boundary is being surveyed concurrently under this group and is described in the field notes of the survey of T. 38 S., R. 17 E. The following field notes are those of a survey of the east boundary and that part of the subdivision considered sufficient in extent to mark the boundaries of those sections normally considered State school land and to facilitate the development of the natural resources. The corners along the latitudinal lines were established at the true latitudinal curve and all corners of the subdivision are established at points calculated to be in the same position they would occupy if the township had been completely subdivided.

The survey was executed with W. and L.E. Gurley transits, numbers 541325, 541326 and 461263, all transits being the property of the Bureau of Land Management and constructed in accordance with their standard specifications. The instruments have full vertical circles and improved type solar attachments. The horizontal plate has two double verniers placed opposite to each other, and the vertical circle has one double vernier. The horizontal verniers of transits No. 541325 and No. 541326 are graduated to 30 minutes of arc. All other verniers of the transits and solar attachments are graduated to single minutes of arc. The instruments were in good adjustment and prior to the beginning of the field work they were examined and all errors eliminated. They were maintained in good adjustment during the survey.

The geographic position of the SE. cor. of the township, determined through section line ties made to U.S. Coast and Geodetic Survey station "Bridges" in the SE. cor. of the township is as follows:

Latitude $37^{\circ} 31' 10.74''$ N.
Longitude $109^{\circ} 58' 58.39''$ W.

The mean magnetic declination was found to be 15° E.

The direction of the lines of the survey were determined by reference to true meridians established on line by hour angle observations on Polaris or altitude observations on the sun. The lines were carried forward as transit lines and checked by succeeding observations.

The measurements were made with steel ribbon tapes, 8 chains in length. These tapes are graduated every link for the first chain, and thereafter at intervals of ten links. They were tested by comparison with a Lufkin standard steel tape, 1 chain in length, and found to be correct. The measurements were made on the slope, the vertical angle of each interval determined by the use of clinometers and the slope distances properly reduced to horizontal equivalents, which appear in these notes. In most cases the distances were determined by chaining, but in some instances they were obtained by triangulation and in others by traverses and offsets. The details of these were thoroughly verified and only the true line distances are given in these notes.

East Boundary, T. 37 S., R. 17 E.

Beginning at the cor. of Ts. 37 and 38 S., Rs. 17 and 18 E., mkd. with a $2\frac{1}{2}$ in. iron post, set, mkd. and witnessed as described in the official record.

N. $0^{\circ} 01'$ E., bet. secs. 31 and 36.

Over rolling land, through moderate to scattered timber.

East Boundary of T. 37 S., R. 17 E.

Chains

- Asc. 15 ft. over gradual SE. slope.
- 9.45. Point for the cor. of secs. 31 and 36. **North Tuff**, bears N. 60° E. and S. 60° W.
- 11.50. Top of ascent on small rise, bears NE and SW; desc. 75 ft. over NW slope.
- 40.00. Point for the 1/2 sec. cor. of secs. 31 and 36.
Set an iron post, 30 ins. long, 2 1/2 ins. diam., on exposed sandstone, over a cross (X), supported in a mound of stone, 4 ft. base to top, with brass cap mkd.

T37S
R17E R18E
1/2
S36 | S31
1957

- 41.00. Wash, 20 lks. wide, 2 ft. deep, course N. 75° W.; asc. 15 ft. over a general S. slope.
- 44.40. Spur, sloping W.; desc. 10 ft. over N. slope.
- 52.50. Head of canyon, draining SW.; asc. 75 ft. over general S. slope.
- 80.00. Point for the cor. of secs. 25, 30, 31 and 36.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 4 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T37S
R17E R18E
S25 | S30
S36 | S31
1957

Land, rolling.
Soil, sandy.
Timber, moderate to scattered juniper and pinion.
Undergrowth, moderate sage, silverleaf, cacti.

- N. 0° 01' E., bet. secs. 25 and 30.
- Over-rolling land, through moderate timber.
- 6.50. Wash, 20 lks. wide, 2 ft. deep, course S. 45° W.; asc. 20 ft. over SE. slope.
- 15.00. Top of ascent on spur, sloping SW.; desc. 40 ft. over rolling NW. slope.
- 32.60. Wash, drains SW. from W.
- 40.00. Point for the 1/2 sec. cor. of secs. 25 and 30.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 14 ins. in the ground to solid sandstone, pits on each side, with brass cap mkd.

T37S
R17E R18E
1/2
S25 | S30
1957

East Boundary of T. 37 S., R. 17 E.

Chains

Continue over rolling land; desc. 45 ft. to sec. cor., over a general N. slope.

62.15

Dirt road, State Highway No. 95, bears S. 50° 45' E. to Blanding and N. 50° 45' W. to Hites Ferry at Colorado River.

80.00

Point for the cor. of secs. 19, 24, 25 and 30.

Set an iron post, 30 ins. long, 2½ ins. diam., on exposed sandstone, over a cross (X), and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T37S
R17E R18E
S24 | S19
S25 | S30
1957

From this point, U.S.C. & E.S. triangulation station "Bridges" bears S. 57° 30' W., 14.26 chs. dist.

Land, rolling.
Soil, sandy.
Timber, moderate juniper and pinion.
Undergrowth, moderate sage and silverleaf.

N. 0° 01' E., bet. secs. 19 and 24.

Over rough, broken land, cut with numerous rims, washes and ledges.

By triangulation desc. 120 ft.

13.00

Wash, course NW.

34.00

Point selected for the witness ¼ sec. cor. of secs. 19 and 24 falls on spur, bearing NW.; desc. 180 ft.

Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and supported in a mound of stone, 4 ft. base to top, with brass cap mkd.

T37S
R17E R18E
W C.
S24 | S19
1957

40.00

True point for the ¼ sec. cor. of secs. 19 and 24 falls in wash, 30 lks. wide, 4 ft. deep, course NW. from NE., where the monument cannot be perpetuated; asc. 160 ft. over S. slope.

58.40

Leave rough, broken land; thence by chaining continue over rolling land, general S. slope.

80.00

Point for the cor. of secs. 13, 18, 19 and 24.

Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T37S
R17E R18E
S13 | S18
S24 | S19
1957

East boundary of T37 S., R. 17 E.

Chains		and O
	<p>Land, rough, broken to rolling.</p> <p>Soil, sandy, rocky.</p> <p>Timber, moderate to scattered juniper and pinion.</p> <p>Undergrowth, scattered sage and castilleja.</p>	21.50
	<p>N. 0° 01' E., bet. secs. 13 and 18.</p> <p>Over rolling to broken land, through moderate to scattered timber.</p> <p>Desc. 145 ft. over a general NW. slope.</p>	01.08
37.85	Wash, 1.50 chs. wide, 3 ft. deep, course SW.	
40.00	Point for the 1/4 sec. cor. of secs. 13 and 18.	
	<p>Set an iron post, 30 ins. long, 2 1/2 ins. diam., over a cross (X) cut in solid sandstone, 4 ft. base, 26 ins. high, with brass cap mkd.</p> <p style="text-align: center;">T37S R17E R18E 1/4 S13 S18 1957</p> <p>Asc. 40 ft. over broken SE. slope.</p>	
43.75	Wash, drains SE. from N. 20° W.; asc. 100 ft. over SW. slope.	
61.50	Same wash, drains SW.; asc. 80 ft. over SSE. slope.	
80.00	Point for the cor. of secs. 7, 12, 13 and 18.	
	<p>Set an iron post, 30 ins. long, 2 1/2 ins. diam., 12 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.</p> <p style="text-align: center;">T37S R17E R18E S12 S 7 S13 S18 1957</p> <p>Land, rolling to broken.</p> <p>Soil, sandy, rocky.</p> <p>Timber, moderate to scattered juniper and pinion.</p> <p>Undergrowth, moderate sage, scattered silverleaf.</p>	
	<p>N. 0° 01' E., bet. secs. 7 and 12.</p> <p>Over rolling land, through moderate to heavy timber.</p> <p>Asc. 10 ft. over SE. slope.</p>	01.14
8.20	Top of ascent on rise, bears NE. and SW.; desc. 95 ft. over NW. slope.	
40.00	Point for the 1/4 sec. cor. of secs. 7 and 12.	
	<p>Set an iron post, 30 ins. long, 2 1/2 ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3 ft. base to top, with brass cap mkd.</p> <p style="text-align: center;">T37S R17E R18E S12 S 7 S13 S18 1957</p>	

East Boundary of T. 37 S., R. 17 E.

Chains

1957
T37S
R17E R18E
S 12 | S 7

Continue to desc. 105 ft. over broken NW. slope.
50.90 Wash, 1 ch. wide, 4 ft. deep, course W.; asc. .75 ft. over S. slope.
54.20 Spur, sloping W.; desc. 50 ft. over N. slope.
58.40 Wash, 40 lks. wide, 3 ft. deep, course SW.; asc. 155 ft. over S. slope.

80.00 Point for the cor. of secs. 1, 6, 7 and 12.
Set an iron post, 30 ins. long, 2 1/2 ins. diam., 12 ins. in the ground, and in a mound of stone to top, 3 ft. base, with brass cap mkd.

T37S
R17E R18E
S 1 | S 6
S 12 | S 7
1957

Land, rolling to broken, with some exposed sandstone surface.
Soil, sandy.
Timber, moderate to heavy juniper and pinion.
Undergrowth, moderate sage and cacti.

N. 0° 01' E., bet. secs. 1 and 6.

Over broken land, through scattered timber.
Asc. 25 ft. over S. slope.

10.20 Spur, sloping W.; desc. 155 ft. over N. slope.
29.90 Wash, 1.50 chs. wide, 2 ft. deep, course N. 30° W.; asc. 50 ft. over general S. slope.

36.15 Spur, sloping S. 70° W.; desc. 20 ft. over NW. slope.

40.00 Point for the 1/2 sec. cor. of secs. 1 and 6.
Set an iron post, 30 ins. long, 2 1/2 ins. diam., 3 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap mkd.

T37S
R17E R18E
S 1 | S 6
1957

49.50 Wash, 50 lks. wide, 2 ft. deep, course S. 20° W.; asc. 140 ft. over SE. slope.

76.75 The cor. of Ts. 36 and 37 S., Rs. 17 and 18 E., an iron post, 3 ins. diam., set, mkd. and witnessed as described in the official record.

Land, rolling and broken.
Soil, sandy, rocky.
Timber, scattered juniper and pinion.
Undergrowth, moderate sage, silverleaf and cacti.

Portion of the Subdivision, T. 37 S., R. 17 E.

Chains From the cor. of secs. 1, 2, 35 and 36, on the S. bdy. of the Tp., mkd. with a 2 1/4 ins. iron post, set, and made with base as described in the field notes for T. 38 S., R. 17 E. North, bet. secs. 35 and 36.

Over rolling land, through dense timber; desc. 45 ft. over gentle NW. slope.

24.80 Sandstone rim, bears N. 60° E. and S. 60° W.; desc. 105 ft. over NW. slope.

34.70 Small wash, drains N. 30° W.; desc. 30 ft. over NW. slope.

40.00 Point for the 1/4 sec. cor. of secs. 35 and 36.

Set an iron post, 30 ins. long, 2 1/4 ins. diam., 18 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T37S R17E
1/4
S35|S36
1957

Desc. 10 ft. over NW. slope.

40.80 Wash, 50 lks. wide, 3 ft. deep, drains W. irregularly; asc. 45 ft. over gentle SW. slope, over series of small spurs and washes, draining SW.

71.30 Wash, 40 lks. wide, 4 ft. deep, drains S. 30° W.; asc. 25 ft. over SE. slope.

80.00 Point for the cor. of secs. 25, 26, 35 and 36.

Set an iron post, 30 ins. long, 2 1/4 ins. diam., 16 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T37S R17E
S26|S25
S35|S36
1957

Cor. falls 30 lks. E. of sandstone rim, which bears N. and S. on curve westward.

Land, rolling, broken by low sandstone rims.
Soil, sandy clay and exposed sandstone.
Timber, dense growth of pinion and uniper.

From the cor. of secs. 25, 30, 31 and 36 on the E. bdy. of the Tp. N. 89° 58' W., bet. secs. 25 and 36.

Over rolling land; through heavy timber; desc. 55 ft. over W. slope.

21.90 Wash, drains S. 20° W.; asc. 35 ft. over rolling E. slope.

40.04 Point for the 1/4 sec. cor. of secs. 25 and 36.

Set an iron post, 30 ins. long, 2 1/4 ins. diam., 20 ins. in the ground, and in a collar of stone, with brass cap mkd.

T37S R17E
S25
1/4
S36
1957

Portion of the Subdivision, T. 37 S., R. 17 E.

Chains

Continue over gentle E. slope.

41.00 Top of ascent, bears NE. and SW.; desc. 135 ft. over rolling W. slope.

75.90 Wash, 40 lks. wide, 4 ft. deep, drains S. 30° W.; asc. 10 ft. over E. slope.

80.08 The cor. of secs. 25, 26, 35 and 36.

Land, rolling.
Soil, sandy clay, some exposed sandstone.
Timber, dense growth of juniper and piñon.

From the cor. of secs. 3, 4, 33 and 34 on the S. bdy. of the township.

N. 0° 01' W., bet. secs. 33 and 34.

Over rolling land, through scattered timber.

Asc. 100 ft. over SE. slope.

24.15 Flat spur, sloping S. 20° W.; desc. 10 ft. over NW. slope.

40.00 Point for the 1/4 sec. cor. of secs. 33 and 34.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 4 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T37S R17E
1/4
S33|S34
1957

Asc. 10 ft. over SE. slope.

40.85 Low spur, sloping S. 80° W.; thence over rolling land, general NW. slope.

71.00 Wash, 1 ch. wide, 3 ft. deep, course S. 35° W.

80.00 Point for the cor. of secs. 27; 28, 33 and 34.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 4 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T37S R17E
S28|S27
S33|S34
1957

Land, rolling.
Soil, sandy, with some exposed sandstone surface.
Timber, scattered juniper and piñon.
Undergrowth, moderate sage, Brigham tea, cacti.

N. 0° 01' W., bet. secs. 27 and 28.

Over rolling land, through moderate timber.

Asc. 105 ft. over SE. slope.

31.65 Spur, sloping S. 30° E.; desc. 70 ft. over NE. slope.

Portion of the Subdivision, T. 37 S., R. 17 E.

Chains

- 40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 27 and 28.
Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 10 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd.
- T37S R17E
 $\frac{1}{4}$
S28|S27
1957
- 54.15 Wash, 1 ch. wide, 2 ft. deep, course S. 30° E. from N. 30° E.; asc. 70 ft. over SE. slope.
- 62.50 Same wash, flows SE. from N.
- 65.50 Same wash, flows S. from NW.
- 80.00 Point for the cor. of secs. 21, 22, 27 and 28.
Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 10 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd.
- T37S R17E
S21|S22
S28|S27
1957
- Land, rolling.
Soil, sandy.
Timber, moderate juniper and pinion.
Undergrowth, moderate sage, Brigham tea and cacti.

N. $0^\circ 01'$ W., bet. secs. 21 and 22.

Over rolling land, through heavy timber.

- 0.90 Dirt road, bears N. 35° E. and S. 35° W.
- 40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 21 and 22.
Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 8 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd.
- T37S R17E
 $\frac{1}{4}$
S21|S22
1957
- Asc. 270 ft. over broken SE. slope.
- 50.80 Base of vertical ledge, bears N. 25° E. and S. 25° W., approx. 60 ft. high.
- 54.55 Top of ascent on neck of spur ridge, projecting N. 40° E.
Thence by triangulation; desc. 325 ft. over broken NNW. slope.
- 74.25 Wash, drains NE.
- 77.15 Thence by chaining; desc. 10 ft.
- 80.00 Point for the cor. of secs. 15, 16, 21 and 22.
Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 15 ins. in the ground, and in a mound of stone, 2 ft. base to top, with brass cap mkd.

Portion of the Subdivision, T. 37 S., R. 17 E.

Chains

T37S R17E
S16|S15
S21|S22
1957

Land, rolling and broken.
Soil, sandy, rocky.
Timber, heavy juniper and pinion.
Undergrowth, moderate sage, scattered cacti and silverleaf.

N. 0° 01' W., bet. secs. 15 and 16.

Over rolling and broken land, through moderate timber.

By triangulation; desc. 50 ft. over broken land, along E. slope, over series of small spurs and washes, draining generally E.

40.00 Point for the 1/4 sec. cor. of secs. 15 and 16.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 10 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T37S R17E
1/4
S16|S15
1957

Continue over series of small spurs and washes, draining generally E.; desc. 50 ft. along broken E. slope.

80.00 Point for the cor. of secs. 9, 10, 15 and 16.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 20 ins. in the ground, and in a mound of stone, 2 ft. base to top, with brass cap mkd.

T37S R17E
S 9|S10
S16|S15
1957

Land, broken E. slope.
Soil, sandy.
Timber, moderate juniper and pinion.
Undergrowth, heavy silverleaf, moderate sage, cacti.

N. 0° 01' W., bet. secs. 9 and 10.

Over broken land, through dense timber.

Desc. 75 ft. over broken E. slope.

5.00 State Highway No. 95, bears N. 10° W. and S. 10° E.

9.60 Wash, course N. 5° W., bears N.

20.00 Same wash, 1 ch. wide, 4 ft. deep, course N. 5° E.; asc. 45 ft. over SE. slope.

28.45 S. rim of wash, with vertical ledge, 20 ft. high, facing E., bears N. 10° W. and S. 10° W.

34.00 Same wash, bears N. 15° E. from SE.; desc. 55 ft. over general E. slope.

Section of the Subdivision, No. 27 S., R. 17 E.

<p>Chains 40.00</p>	<p>Point for the $\frac{1}{4}$ sec. cor. of secs. 9 and 10.</p> <p>Set an iron post, 30 ins. long, 2$\frac{1}{2}$ ins. diam., over a cross (X) on sandstone surface, and in a mound of stone, 4 ft. base to top, with brass cap mkd.</p> <p style="text-align: center;">T37S R17E S 9 S10 1957</p>	<p>00.00</p>
<p>42.50 54.00 67.25 71.25 75.25 80.00</p>	<p>Asc. 45 ft. over broken SE. slope.</p> <p>Rim of wash, with vertical ledge, 30 ft. high, facing E., bears N. 10° W. and S. 10° W.; desc. 65 ft. over broken NE. slope.</p> <p>Same wash, drains NE. from SE.; asc. 100 ft. up SE. slope.</p> <p>S. rim of canyon, bears N. 60° W. and S. 40° W., with vertical ledge, facing NE., 60 ft. high.</p> <p>Small wash, drains S. 60° E.</p> <p>N. rim of canyon, bears N. 60° W. and S. 60° E., with vertical ledge, facing SW., 60 ft. high; asc. 45 ft. over a general SW. slope.</p> <p>Point for the cor. of secs. 3, 4, 9 and 10.</p> <p>Set an iron post, 30 ins. long, 2$\frac{1}{2}$ ins. diam., 10 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd.</p> <p style="text-align: center;">T37S R17E S 4 S 3 S 9 S10 1957</p>	<p>00.00</p>
	<p>Land, broken. Soil, sandy, rocky. Timber, dense juniper and pinion. Undergrowth, moderate silverleaf, sage, cacti and scattered Brigham tea.</p>	<p>00.00</p>
	<p>N. 0° 18' E., bet. secs. 3 and 4.</p> <p>Over broken to rolling land, through moderate timber.</p> <p>Desc. 60 ft. over general NE. slope.</p>	<p>00.00</p>
<p>32.40</p>	<p>Point for the witness $\frac{1}{4}$ sec. cor. of secs. 3 and 4.</p> <p>Set an iron post, 30 ins. long, 2$\frac{1}{2}$ ins. diam., 4 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.</p> <p style="text-align: center;">T37S R17E W C S 4 S 3 1957</p>	<p>00.00</p>
<p>32.45</p>	<p>S. edge of White Canyon, bears N. 60° W. and S. 60° E., with vertical ledge, 200 ft. high, facing NE.</p> <p>Thence by triangulation.</p>	<p>00.48</p>

Partion of the Subdivision, T. 37 S., R. 17 E.

Chains

40.00

True point for the $\frac{1}{4}$ sec. cor. of secs. 3 and 4 falls in White Canyon, where it is impracticable to set the monument.

43.25

Wash in Canyon, drains NW.

51.00

Drain, course SW. from N. 15° E.

53.00

N. rim of White Canyon, bears N. 60° W. and S. 60° E., with vertical ledge, 200 ft. high, facing SW.; asc. 150 ft. over general S. slope.

76.25

The cor. of secs. 3, 4, 33 and 34, T. 36 and 37 S., R. 17 E., 2 ins iron post, mkd., set and witnessed as described in the official record.

Land, broken to rolling.
Soil, sandy, rocky, with exposed sandstone surface.
Timber, moderate juniper and pinion.
Undergrowth, scattered sage, Brigham tea, grass and cacti.

From the cor. of secs. 7, 12, 13 and 18 on the E. bdy. of the township,

N. 89° 58' W., bet. secs. 12 and 13.

Desc. 40 ft. over gentle W. slope, through heavy pinion and juniper.

15.90

Draw, 20 lks. wide, 1 ft. deep, drains NW.; continue to desc. 45 ft. over gentle NW. slope.

40.00

Point for the $\frac{1}{4}$ sec. cor. of secs. 12 and 13.

Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T37S R17E

S12

S13

1957

Desc. 35 ft. over series of small spurs, sloping W.

51.30

Sandstone rim, bears N. and S.; desc. 200 ft. down W. slope.

79.46

Wash, 30 lks. wide, 1 ft. deep, drains W. from NE. and SE. Intermittent seeps of good drinking water found in bottom of wash; desc. 25 ft. to cor.

80.00

Point for the cor. of secs. 11, 12, 13 and 14.

Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., 4 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T37S R17E

S11 | S12

S14 | S13

1957

Sec. cor. falls on N. bank of wash, draining W.

Land, rolling to broken with exposed sandstone rims.

Soil, sandy.

Timber, heavy juniper and pinion.

Undergrowth, scattered grass and silverleaf.

Portion of the Subdivision, T. 37 S., R. 17 E.

Chains	<p>North, bet. secs. 11 and 12.</p> <p>Over rolling and broken sandstone, through heavy juniper and pinion.</p> <p>Asc. 115 ft. over general S. slope.</p>				
8.75	N. rim of canyon, bearing ENE. and WSW.; continue to ascend.				
17.24	Crest of spur, bearing W.; desc. 70 ft. over general N. slope.				
24.88	S. rim of canyon, bears N. 80° W. and S. 80° E.; desc. 95 ft. over general NE. slope.				
30.08	Wash in bottom of canyon, 1.20 chs. wide, 5 ft. deep, drains N. 80° W.; asc. general N. slope, 45 ft. to canyon rim.				
33.45	N. rim of canyon, bearing N. 80° W. and S. 80° E.; continue to asc. sandstone surface, 75 ft. over general SW. slope.				
40.00	Steep sandstone slope, where cor. cannot be perpetuated.				
40.40	<p>Point selected for the witness $\frac{1}{4}$ sec. cor. of secs. 11 and 12.</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3 ft. base to top, with brass cap mkd.</p> <div style="text-align: center;"> <p>T37S R17E°</p> <p>½</p> <table border="1"> <tr> <td>S11</td> <td>S12</td> </tr> <tr> <td colspan="2" style="text-align: center;">W C</td> </tr> </table> <p>1957</p> </div> <p>Asc. 70 ft. over general SW. slope, over series of low spurs and washes, projecting SW. to W.</p>	S11	S12	W C	
S11	S12				
W C					
80.00	<p>Point for the cor. of secs. 1, 2, 11 and 12.</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground, and in a mound of stone, 2½ ft. base to top, with brass cap mkd.</p> <div style="text-align: center;"> <p>T37S R17E</p> <table border="1"> <tr> <td>S 2</td> <td>S 1</td> </tr> <tr> <td>S11</td> <td>S12</td> </tr> </table> <p>1957</p> </div> <p>Land, rolling and broken.</p> <p>Soil, sand and exposed sandstone.</p> <p>Timber, heavy juniper and pinion.</p> <p>Undergrowth, sparse grass.</p>	S 2	S 1	S11	S12
S 2	S 1				
S11	S12				
	<p>From the cor. of secs. 1, 6, 7 and 12 on the E. bdy. of the T. 37 S., R. 17 E., thence</p> <p>N. 89° 56' W., bet. secs. 1 and 12.</p> <p>Thence over rolling and broken land, through heavy pinion and juniper</p> <p>Gradual ascent.</p>				
12.29	Top of rise; desc. 100 ft. to E. rim of canyon.				
22.82	Rim of canyon; desc. 150 ft. down general WNW. slope.				

Portion of the Subdivision, T. 37 S., R. 17 E.

Chains

40.00

Point for the $\frac{1}{4}$ sec. cor. of secs. 1 and 12.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 12 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T37S R17E

$\frac{1}{4}$ $\frac{S1}{S12}$

1957

Desc. 18 ft. to bottom of Tuwa Canyon.

43.20

Bottom of Tuwa Canyon, drains SW.; asc. 120 ft. to W. rim of canyon; continue to asc. over gradual SE. slope.

50.00

W. rim of canyon; bears S. and N. 15° E.; asc. 50 ft. to top of slope.

65.00

Top of low spur, slopes S. 20° W.; desc. W. slope 80 ft. to sec. cor. of secs. 1, 2, 11 and 12.

80.00

The cor. of secs. 1, 2, 11 and 12.

Land, rolling and broken.

Soil, sandy.

Timber, heavy juniper and pinion.

Undergrowth, light sage and scattered grass.

From the cor. of secs. 15, 16, 21 and 22.

N. $89^\circ 58'$ W., bet. secs. 16 and 21.

Over rough, broken land, through moderate to heavy timber.

By triangulation; asc. 400 ft. over broken ledges, facing E., on lower rim of Moss Back Mesa.

25.00

Top of broken ledges, bears N. and S., facing E.; continue to asc. 120 ft. over E. to NE. slope.

40.00

Point for the $\frac{1}{4}$ sec. cor. of secs. 16 and 21.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 8 ins. in the ground, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T37S R17E

$\frac{1}{4}$ $\frac{S16}{S21}$

1957

Continue to asc. 120 ft. over broken E. slope.

50.35

Top of ascent on rise, bears N. and S.; desc. 30 ft. over broken W. slope.

67.05

Rut road, bears N. 20° E. and S. 20° W.

80.00

Point for the cor. of secs. 16, 17, 20 and 21.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 20 ins. in the ground, and in a mound of stone, 2 ft. base to top, with brass cap mkd.

T37S R17E

$\frac{S17}{S20}$ $\frac{S16}{S21}$

1957

Portion of the Subdivision, No. 37 S., R. 17 E.

Chains		Total
	<p>Land, rough, broken Soil, sandy, rocky. Timber, moderate to heavy juniper and pinion Undergrowth, moderate sage, silverleaf and casti.</p>	00.00
	<p>N. 0° 02' W., bet. secs. 16 and 17.</p>	
	<p>Over broken to rolling land, through dense timber.</p>	
	<p>Asc. 15 ft. over S. slope.</p>	
8.90	<p>Spur, sloping NW.; desc. 75 ft. over broken N. slope.</p>	
32.55	<p>Wash, 30 lks. wide, 2 ft. deep, course W.; asc. 30 ft. over rocky, broken S. slope.</p>	
40.00	<p>Point for the $\frac{1}{4}$ sec. cor. of secs. 16 and 17.</p>	00.00
	<p>Set an iron post, 30 ins. long, 2$\frac{1}{2}$ ins. diam., 15 ins. in the ground, and in a mound of stone, 2 ft. base to top, with brass cap mkd.</p>	
	<p>T37S R17E k S17 S16 1957</p>	
	<p>Corner is located on spur sloping SW.</p>	
	<p>Asc. 15 ft. over rolling, general S. slope.</p>	
76.50	<p>Rut road, bears N. 60° W., and S. 60° E.</p>	
80.00	<p>Point for the cor. of secs. 8, 9, 16 and 17.</p>	
	<p>Set an iron post, 30 ins. long, 2$\frac{1}{2}$ ins. diam., 15 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd.</p>	
	<p>T37S R17E S 8 S 9 S17 S16 1957</p>	
	<p>from which</p>	
	<p>A pinion, 8 ins. diam., bears N. 4° 45' E., 117 lks. dist., mkd. BT.</p>	
	<p>A juniper, 7 ins. diam., bears S. 35° E., 36 lks. dist., mkd. BT.</p>	
	<p>A juniper, 7 ins. diam., bears S. 72° 15' W., 115 lks. dist., mkd. BT.</p>	
	<p>A pinion, 8 ins. diam., bears N. 44° 45' W., 183 lks. dist., mkd. BT.</p>	28.00
	<p>Land, broken to rolling.</p>	30.70
	<p>Soil, sandy, rocky.</p>	00.08
	<p>Timber, dense juniper and pinion.</p>	
	<p>Undergrowth, moderate sage, Brigham tea, scattered silverleaf.</p>	

T37S R17E
S 8 | S 9
S17 | S16
1957

Chains	<p>From the cor. of secs. 9, 10, 15 and 16.</p> <p>N. 89° 58' W., bet. secs. 9 and 16.</p> <p>Over broken to rolling land, through dense timber.</p> <p>By triangulation; asc. 520 ft. over broken ledges, facing E., on lower rim of Moss Back Mesa.</p> <p>20.00 Top of broken ledges, bears N. and S., facing E.</p> <p>Thence by chaining; asc. 220 ft. over broken, rocky E. slope.</p> <p>39.95 Rut road, bears N. and S.</p> <p>40.00 Point for the ¼ sec. cor. of secs. 9 and 16.</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, and in a mound of stone, 2 ft. base to top, with brass cap mkd.</p> <p style="text-align: center;">T37S R17E $\frac{1}{4}$ $\frac{S}{9}$ S16. 1957</p> <p>Corner is located on top of ascent.</p> <p>Desc. 30 ft. over broken, rocky W. slope.</p> <p>80.00 The cor. of secs. 8, 9, 16 and 17.</p> <p>Land, broken and rolling. Soil, sandy, rocky. Timber, dense juniper and pinion. Undergrowth, moderate sage, scattered silverleaf and cacti.</p>
40.00	<p>From the cor. of secs. 4, 5, 32 and 33 on the S. bdy. of T. 37 S., R. 17 E.</p> <p>N. 0° 02' W., bet. secs. 32 and 33.</p> <p>Over rolling and broken land, through heavy juniper and pinion.</p> <p>Desc. 60 ft. along general NW. slope, through heavy pinion and juniper.</p> <p>Point for the ¼ sec. cor. of secs. 32 and 33.</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with a collar of stone, with brass cap mkd.</p> <p style="text-align: center;">T37S R17E $\frac{1}{4}$ S32 S33 1957</p> <p>Desc. 25 ft. along general NW. slope.</p>
54.80	<p>Wash, 1.00 ch. wide, 3 ft. deep, drains SW.; thence asc. 60 ft. along general SE. slope of spur, bearing irregularly SW.</p>
80.00	<p>Point for the cor. of secs. 28, 29, 32 and 33.</p>
	<p>Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground to bedrock, and in a mound of stone to top, with brass cap mkd.</p>

Portion of the Subdivision, T. 37 S., R. 17 E.

Chains	<p>T37S: R17E <u>S29 S32</u> <u>S32 S33</u> 1957</p> <p>Land, rolling and broken. Soil, sandy and rocky. Timber, moderate to heavy juniper and piñon. Undergrowth, moderate sage, silverleaf and cacti.</p>	Acres
	<p>From the cor. of secs. 5, 6, 31 and 32 on the S. bdy. of T. 37 S., R. 17 E.</p>	28.41
	<p>N. 0° 02' W., bet. secs. 31 and 32.</p>	90.04
	<p>Over rolling to ledgy and broken land, through moderate juniper and piñon. Asc. 8 ft. over gentle S. slope.</p>	
16.24	<p>Improved dirt road, bears NE. and SW.; continue to asc. 48 ft. over general S. slope.</p>	
35.22	<p>Base of steep slide; asc. 125 ft. over steep SE to SSE slope.</p>	
40.00	<p>Point for the 1/2 sec. cor. of secs. 31 and 32.</p>	
	<p>Set an iron post, 30 ins. long, 2 1/2 ins. diam., over across (X) cut in solid sandstone, and in a mound of stone, 3 ft. base to top, with brass cap mkd.</p>	
	<p>T37S: R17E <u>S31 S32</u> 1957</p>	
	<p>Continue to asc. 420 ft. over steep, rocky SE slope.</p>	
61.50	<p>Rim, bears NE. and SW.; asc. 270 ft. over ledgy SE slope.</p>	
80.00	<p>Point for the cor. of secs. 29, 30, 31 and 32.</p>	
	<p>Set an iron post, 30 ins. long, 2 1/2 ins. diam., 3 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.</p>	
	<p>T37S R17E <u>S30 S29</u> <u>S31 S32</u> 1957</p>	
	<p>Land, broken mesa top and benches. Soil, light sand and exposed sandstone. Timber, scrub juniper and piñon.</p>	
	<p>From the cor. of secs. 28, 29, 32 and 33. on the N. bdy. of T. 37 S., R. 17 E., bet. secs. 29 and 32.</p>	28.42
	<p>Over broken land, through medium dense timber. Begin triangulation.</p>	28.06
5.50	<p>Topography as estimated from U.S.G.S. topographic maps. Top of low spur, bearing S.</p>	

Portion of the Subdivision, T. 37 S., R. 17 E.

Chains	
13.00	Bladed road, bears SW. and NE.; asc. 60 ft. over rocky S. slope.
39.99	Point for the $\frac{1}{4}$ sec. cor. of secs. 29 and 32.
	Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., 4 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T37S R17E $\frac{1}{4}$ $\frac{S29}{S32}$ 1957
	Asc. 60 ft. over rocky talus SE. slope.
46.50	Wash, drains ESE.; asc. 340 ft.
60.00	E. rim of Moss Back Mesa, bears SW. and NE.; asc. 240 ft. over ledges facing SE.
79.00	Top of ascent; thence over nearly level land.
79.98	The cor. of secs. 29, 30, 31 and 32.
	Land, broken. Soil, sand and exposed sandstone. Timber, medium dense scrub juniper and pinion.

GENERAL DESCRIPTION

The land in the township varies from the broken desert bench land in the center and south, known as ~~Moss Back Mesa~~, to the higher mountain land in the north. The township is cut by numerous steep sided and box canyons. The drainage is to the south and west into tributaries of the Colorado River. The soil is principally a sandy clay loam, with a considerable amount of exposed, broken and eroded sandstone. There is a growth of scattered to dense pinion and juniper over the township, with scattered cottonwood in the canyon bottoms. The undergrowth is mainly sagebrush, with lessor amounts of silverleaf, cacti, bitter brush, mountain rush, grass and weeds. There are no permanent habitants in the township. A considerable amount of prospecting for fissionable minerals has been and to some extent is still being carried on in the area. This township is accessible by State Highway No. 95 from Blanding to Hite, bearing generally NW. to SE. over the NE. portion of the township.

Chains		Amount
	Bilateral trade, 1950-1951	12.00
	Total for 1950-1951	12.00
	Total for 1952-1953	12.00
	Total for 1954-1955	12.00
	Total for 1956-1957	12.00
	Total for 1958-1959	12.00
	Total for 1960-1961	12.00
	Total for 1962-1963	12.00
	Total for 1964-1965	12.00
	Total for 1966-1967	12.00
	Total for 1968-1969	12.00
	Total for 1970-1971	12.00
	Total for 1972-1973	12.00
	Total for 1974-1975	12.00
	Total for 1976-1977	12.00
	Total for 1978-1979	12.00
	Total for 1980-1981	12.00
	Total for 1982-1983	12.00
	Total for 1984-1985	12.00
	Total for 1986-1987	12.00
	Total for 1988-1989	12.00
	Total for 1990-1991	12.00
	Total for 1992-1993	12.00

CERTIFICATE OF CADASTRAL ENGINEER

I, Boyd S. Owens, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 2nd day of April, 57, I have surveyed the east boundary and a portion of the subdivision of T. 37 S., R. 17 E.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Salt Lake City, Utah
November 1, 1957

Boyd S. Owens
Boyd S. Owens
Cartographic Survey Aid

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., _____, 19____

The foregoing field notes of the survey of _____

executed by _____

having been critically examined and found correct, are hereby approved.

Cadastral Engineering Staff Officer.

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____, is a true copy of the original field notes.

Cadastral Engineering Staff Officer.

CERTIFICATE OF CADASTRAL ENGINEER

I, Craig P. Sylvester, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 2nd day of April, 1957

I have surveyed a portion of the subdivision of T. 37 S., R. 17 E.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Salt Lake City, Utah
November 1, 1957

Craig P. Sylvester
Craig P. Sylvester
Cartographic Survey Aid

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., 1957

The foregoing field notes of the survey of

executed by _____
having been critically examined and found correct, are hereby approved.

Cadastral Engineering Staff Officer.

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____, is a true copy of the original field notes.

Cadastral Engineering Staff Officer.

CERTIFICATE OF CADASTRAL ENGINEER

I, Dell Cazier, HEREBY CERTIFY upon honor that
pursuance of special instructions bearing date of the 2nd day of April,

I have surveyed a portion of the subdivision of T. 37 S., R. 17 E.

of the Salt Lake Meridian, in the State of Utah, which are
represented in the foregoing field notes as having been executed by me and under my direction; and that
said survey has been made in strict conformity with said instructions, the Manual of Instructions for the
Survey of the Public Lands of the United States, and in the specific manner described in the foregoing
field notes.

Salt Lake City, Utah
November 1, 1957

Dell Cazier
Dell Cazier
Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., _____, 19__

The foregoing field notes of the survey of _____

executed by _____

having been critically examined and found correct, are hereby approved.

Cadastral Engineering Staff Officer.

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____
_____, is a true copy of the original field notes.

Cadastral Engineering Staff Officer.

CERTIFICATE OF CADASTRAL ENGINEER

I, Vern E. Lane, HEREBY CERTIFY upon honor that in pursuance of special instructions bearing date of the 2nd day of April, 1957,

I have supervised the survey of the east boundary and a portion of the subdivision of Township 37 South, Range 17 East

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed under my supervision; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

November 1, 1957
Salt Lake City, Utah

[Signature]
Vern E. Lane
Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., JUN 17 1958, 19

The foregoing field notes of the survey of the east boundary and a portion of the subdivision of Township 37 South, Range 17 East, Salt Lake Meridian, Utah

executed by Boyd S. Owens, Dell Cazier, Craig P. Sylvester, under the supervision of Vern E. Lane having been critically examined and found correct, are hereby approved.

[Signature]
Cadastral Engineering Staff Officer.

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____, is a true copy of the original field notes.

Cadastral Engineering Staff Officer.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Original

FIELD NOTES

of the

Survey of

A Portion of the Subdivision

of

Township 37 South, Range 18 East

Of the Salt Lake Meridian,

the State of Utah

EXECUTED BY

Donald A. Cannon Cartographic Survey Aid

Fred R. Chappell Cadastral Surveyor

Vern E. Lane Cadastral Surveyor (Chief of Party)

Under special instructions dated April 2, 1957, which provided

the surveys included under Group No. 406, approved April 10, 1957.

assignment instructions dated June 14, 1957.

Survey commenced July 18, 1957.

Survey completed August 5, 1957.

INDEX DIAGRAM

Township 37 South, Range 18 East

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		10							
18	17	9	16	5	15	14		18	
		1	9						
19	20	21	5	22		23		24	
30	29	28	4	27		26		25	
	12							2	
31	11	32	11	33	3	34	35	2	36

16-50770-1

Donald A. Cannon _____
 Fred R. Chappell _____

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Township 37 South, Range 18 East

Chains

The east and north boundaries of T. 37 S., R. 18 E. of the Salt Lake Meridian, Utah, was surveyed by Robert C. Yundt in 1930. The south and west boundaries were surveyed concurrently under this same group, and the record appears in the field notes of T. 38 S., R. 18 E. and T. 37 S., R. 17 E., respectively.

The following field notes are those of a survey of a portion of the subdivision considered sufficient in extent to mark the boundaries of those sections normally considered State school land, and to facilitate the development of the natural resources. The corners of the subdivision are established at points calculated to be in the same position they would occupy if the township had been completely subdivided.

The survey was executed with Buff and Buff solar transit No. 26066, and W. and L. E. Gurley transit No. 541321, both transits being the property of the Bureau of Land Management, and constructed in accordance with their standard specifications. The horizontal plates have two double verniers placed opposite to each other, and the vertical circles have one double vernier. The horizontal verniers of the Gurley transit are graduated to 30 seconds of arc. All other verniers of the transits and solar attachments are graduated to single minutes of arc. The instruments were in good adjustment, and prior to the beginning of the field work they were examined and all errors eliminated. They were maintained in good adjustment during the survey.

The geographic position of the southeast corner of the township, determined through section line ties made to U. S. Coast and Geodetic triangulation station "Bridges" in T. 37 S., R. 17 E., is as follows:

Latitude	37° 31' 09.47" N.
Longitude	109° 52' 26.83" W.

The mean magnetic declination was found to be 15° E.

The direction of the lines of survey were determined by reference to true meridians established on line by altitude observations on the sun, and by the solar transit method.

The measurements were made with steel ribbon tapes, eight chains in length. These tapes are graduated every link for the first chain and thereafter at intervals of ten links. They were tested by comparison with a Lufkin standard steel tape, one chain in length and found to be correct. The measurements were made on the slope, the vertical angle of each interval determined by use of clinometers, and the slope distances properly reduced to horizontal equivalents, which appear in these notes. In most cases the distances were determined by chaining, but in some instances they were obtained by triangulation, and in others by traverses and offsets. The details of these were thoroughly verified and only the true line distances returned in the notes.

Portion of the Subdivision, T. 37 S., R. 18 E.

Chains

Beginning at the cor. of secs. 1, 2, 35 and 36, on the S. bdy. of the Tp., monumented by an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of T. 38 S., R. 18 E.

Thence

N. 0° 01' W., bet. secs. 35 and 36.

Over rolling desert land, through dense timber and scant undergrowth; desc, 80 ft. over a N. slope.

17.70 Dirt road, bears E. and W.; desc. 20 ft. over a N. slope.

19.60 Wash, 10 lks. wide, 3 ft. deep, drains N. 85° W.; asc. 120 ft. over a SW. slope.

40.00 Point for the ¼ sec. cor. of secs. 35 and 36.

Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

T37S R18E

¼

S35|S36

1957

Deposit charcoal at base of post.

41.00 Spur, projects W.; desc. 95 ft. over a NW. slope.

61.30 Kane Gulch, 1.00 ch. wide, 4 ft. deep, drains S. 85° W.; asc. 65 ft. along a SE. slope.

76.45 Road, improved dirt, bears NE. and SW.; asc. 35 ft.

80.00 Point for the cor. of secs. 25, 26, 35 and 36.

Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid rock, and in a mound of stone, with brass cap mkd.

T37S R18E

S26|S25

S35|S36

1957

Land, broken and rolling desert.

Soil, sandy clay, with exposed sandstone.

Timber, dense juniper and pinion.

Undergrowth, sagebrush, scant yucca, grass and weeds.

Beginning at the cor. of secs. 25, 30, 31 and 36, on the E. bdy. of the Tp., monumented by an iron post, 2 ins. in diam., set, mkd. and witnessed as described in the official record.

Thence

N. 89° 48' W., bet. secs. 25 and 36.

.50 Enter sagebrush opening.

10.00 Leave sagebrush opening, enter dense juniper and pinion; desc. 45 ft. along a gentle N. slope.

39.85 Point for the ¼ sec. cor. of secs. 25 and 36.

Portion of the Subdivision, T. 37 S., R. 18 E.

Chains	
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to solid rock, and in a mound of stone, with brass cap mkd.
	T37S R18E
	¼ S25
	S36
	1957
	Deposit a sandstone, 5x3x3 ins., mkd. with a cross (X) at the base of the post.
	Desc. 70 ft. along a NW. slope.
53.90	Wash, 15 lks. wide, 7 ft. deep, drains N. 80° W.; asc. 20 ft. over an E. slope.
60.10	Tip of low spur from SE.; desc. 25 ft. over a W. slope.
71.20	Wash, 40 lks. wide; 3 ft. deep, drains S. 8.00 chs.; thence SW.; asc. 64 ft. over an E. slope.
77.60	Improved dirt road, bears N. 10° E. and SW.; asc. 15 ft.
79.70	The cor. of secs. 25, 26, 35 and 36.
	Land, broken and rolling desert.
	Soil, sandy clay, with exposed sandstone.
	Timber, dense juniper and pinion.
	Undergrowth, dense sagebrush in the openings, scant bitter brush and grass and weeds the balance.
	Beginning at the cor. of secs., 3, 4, 33 and 34, on the S. bdy. of the Tp., monumented by an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of T. 38 S., R. 18 E.
	N. 0° 02' W., bet. secs. 33 and 34.
	Through scattered timber; desc. 120 ft. over ledges on NW. slope.
5.00	Slope changes; asc. SW. slope.
9.50	Spur, slopes N. 65° W.; desc. 60 ft. over NW. slope.
12.50	Rim and ledge of Grand Gulch, 200 ft. high, faces NE.
16.40	Wash, in bottom of Grand Gulch, 50 lks. wide, 4 ft. deep, course S. 70° W.; asc. 240 ft. over ledges on SE. slope.
27.70	Sandstone point; slopes E.; asc. 20 ft. along broken E. slope.
37.50	Point selected for the witness ¼ sec. cor. of secs. 33 and 34.
	Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T37S R18E
	W C
	¼ S33 S34
	1957
37.70	Desc. over ledge about 40 ft. high, bears NW. and SE.; desc. 90 ft. over ledges on NE. slope.
40.00	Point for the ¼ sec. cor. of secs. 33 and 34, falls on inaccessible ledges facing NE.

Portion of the Subdivision C, T1S, R. 18 E.

Chains
 43.50 Recross wash in bottom of Grand Gulch, 40 lks. wide, 4 ft. deep, course S. 40° E.; asc. 70 ft. over SW. slope.

48.20 Spur, slopes sharply W. about 3 chs. to end; desc. 60 ft. over NW. slope.

51.60 Recross wash in bottom of Grand Gulch, 40 lks. wide, 3 ft. deep, cours S. 60° W.; asc. 290 ft. over ledges on SE. slope.

61.30 W. rim of Grand Gulch, a ledge 40 ft. high, bears N. 80° E. and SW.; asc. 10 ft. over SE. slope.

67.80 Spur, slopes E.; desc. 10 ft. over NE. slope.

77.80 Wash, drains NE.

80.00 Point for the cor. of secs. 27, 28, 33 and 34.

Set an iron post, 30 ins. long, 2½ ins. diam., 2 ins. in the ground to bedrock and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T37S R18E
 S28|S27
 S33|S34
 1957

Land, rolling and broken breaks of Grand Gulch.
 Soil, shallow sand and exposed sandstone.
 Timber, scattered to medium dense juniper and pinion.

N. 0° 02' W., bet. secs. 27 and 28.

Over rolling land, through dense juniper and pinion; desc. 50 ft. over NE. slope.

6.30 Drain, course E.; asc. 120 ft. over SE. slope.

23.00 Spur, projects E.; desc. 40 ft. over NE. slope.

34.80 W. rim of Grand Gulch, a ledge about 20 ft. high, bears N. irregularly and S. 60° E.; desc. 10 ft. along rim.

40.00 Point for the ¼ sec. cor. of secs. 27 and 28 falls on face of ledge about 50 ft. high, facing SE. where the cor. cannot be monumented.

40.30 Sandstone point with walls about 50 ft. high, projects E. 50 lks.

40.50 Point for the witness ¼ sec. cor. of secs. 27 and 28.

Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock and in a mound of stone, 2½ ft. base to top, with brass cap mkd.

T37S R18E
 ¼
 S28|S27
 W C
 1957

Desc. 10 ft. along W. rim of Grand Gulch.

44.00 Wash, drains SE.; asc. 70 ft.

46.50 W. rim of Grand Gulch, a ledge about 20 ft. high, bears S. 70° E. for about 5 chs., thence generally NNE. irregularly; asc. 100 ft. over S. slope.

80.00 Point for the cor. of secs. 21, 22, 27 and 28.

Portion of the Subdivision, T. 37 S., R. 18 E.

Chains
the ground
40.00
13.50
40.00
79.50
80.00
0.40
40.00

Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground into bedrock, and in a mound of stone, 2½ ft. base to top, with brass cap mkd.

T37S R18E
S21|S22
S28|S27
1957

Land, rolling and broken breaks of Grand Gulch.
Soil, sand and exposed sandstone.
Timber, dense juniper and pinion.

N. 0° 02' W., bet. secs. 21 and 22.

Over rolling land, through dense juniper and pinion; asc. 70 ft. over general SE. slope.

Bend in wash draining S. 30° E. from W.

Point for the ¼ sec. cor. of secs. 21 and 22.

Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd.

T37S R18E
¼
S21|S22
1957

Deposit stone 5x2 ins., mkd. with a cross (X) at base of post.

Asc. 20 ft. over almost level land of Harmony Flat sloping SW.

State Highway 95, bears N. 30° E. and S. 30° W.

Point for the cor. of secs. 15, 16, 21 and 22, falls in road where the cor. cannot be monumented.

Land, rolling.
Soil, sand.
Timber, dense juniper and pinion.

N. 0° 02' W., bet. secs. 15 and 16.

Through dense juniper and pinion.

Point selected for the witness cor. of secs. 15, 16, 21 and 22.

Set an iron post, 30 ins. long; 2½ ins. diam.; 10 ins. in the ground and in a mound of stone, 2½ ft. base to top, with brass cap mkd.

T37S R18E
S16|S15
S21|S22
W C
1957

Asc. 40 ft. along rolling W. slope.

Point for the ¼ sec. cor. of secs. 15 and 16, on top of low spur sloping to the W.

Portion of the Subdivision T. 37 S., R. 18 E.

Chains

Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd.

T37S R18E

¼

S16|S15

1957

Desc. 80 ft. along rolling NW. slope.

59.90 Wash, 20 lks. wide, 4 ft. deep, course S. 80° W.; asc. 100 ft. over S. slope.

78.50 Spur, slopes SW.

80.00 Point for the cor. of secs. 9, 10, 15 and 16.

Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to bedrock and in a mound of stone, 2½ ft. base to top, with brass cap mkd.

T37S R18E

S 9|S10

S16|S15

1957

Land, rolling.

Soil, sand.

Timber, dense juniper and pinion.

N. 0° 02' W., bet. secs. 9 and 10.

Over rolling land, through dense timber; desc. 100 ft. over NW. slope.

20.30 Wash, 20 lks. wide, 3 ft. deep, course W., thence over W. slope.

37.40 Wash, 50 lks. wide, 5 ft. deep, course S. 40° W.; asc. 10 ft. over S. slope.

40.00 Point for the ¼ sec. cor. of secs. 9 and 10.

Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 2 ft. base to top, with brass cap mkd.

T37S R18E

S 9|S10

1957

Asc. 100 ft. over S. slope.

80.00 Point for the cor. of secs. 3, 4, 9 and 10.

Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground and in a mound of stone, 2½ ft. base to top, with brass cap mkd.

T37S R18E

S 4|S 3

S 9|S10

1957

Land, rolling.

Soil, sandy.

Timber, dense juniper and pinion.

Position of the Subdivision, T. 37 S., R. 18 E.

Chains	N. 0° 05' E., bet. secs. 3 and 4.
	Over rolling land, through dense timber; asc. 120 ft. over S. slope.
40.00	Point for the ¼ sec. cor. of secs. 3 and 4.
	Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground and in a mound of stone, 2½ ft. base to top, with brass cap mkd. T37S R18E ¼ S4 S3 1957
	Asc. 20 ft. over S. slope.
41.80	Base of abrupt ascent, bears N. 70° E. and S. 70° W.; asc. 260 ft. over S. slope.
49.30	Spur, projects S. 80° W.; desc. 300 ft. over NW. slope.
60.50 =	Base of abrupt descent, bears N. 60° E. and S. 60° W.; desc. 60 ft. over rolling NW. slope.
69.00	Wash, drains NW.
78.53	The cor. of secs. 3, 4, 33 and 34, on the N. bdy. of the Tp., monumented by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record.
	Land, rolling. Soil, sand and sandy clay. Timber, dense to scattered juniper and pinion.
	From the cor. of secs. 2, 3, 34 and 35 on the N. bdy. of the Tp., monumented by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record.
	S. 0° 01' E.; bet. secs. 2 and 3. Through dense timber; asc. 70 ft. over NW. slope of Maverick Point.
12.40	Top of ascent, slopes WW; desc. 20 ft. over W. slope.
23.20	Road, graded, bears N. 70° E. and S. 70° W.
39.02	Point for the ¼ sec. cor. of secs. 2 and 3.
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground with brass cap mkd. T37S R18E ¼ S3 S2 1957
	Deposit stone, 8x6x3 ins., mkd. with a cross (X) at base of post.
	Continue along W. slope.
48.40	Rim, a ledge 30 ft. high, bears N. 80° E. and N. 80° W.; desc. 560 ft. over ledges on S. slope.
66.80	Base of abrupt descent, bears E. and W.; desc. 20 ft. over rolling S. slope.
79.02	Point for the cor. of secs. 2, 3, 10 and 11.
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone, with brass cap mkd.

Portion of the Subdivision, T37S R. E., R. 18 E.

Chains

T37S R18E

S 3 | S 2

S10 | S11

1957

Land, rolling and broken.
Soil, sandy clay and exposed shale.
Timber, dense juniper and pinion.

S. 89° 39' E., bet. secs. 2 and 11, on a theoretical parallel connecting the cor. of secs. 1, 6, 7 and 12, on the E. bdy. and the cor. of secs. 3, 4, 9 and 10, as specified in the special instructions.

Through dense timber; asc. 30 ft. along rolling S. slope, over series of small washes.

40.00 Point for the 1/4 sec. cor. of secs. 2 and 11.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 16 ins. in the ground and in a collar of stone, with brass cap mkd.

T37S R18E

1/4 S 2

S11

1957

Along rolling S. slope, over series of small washes.

72.10 Wash, 20 lks. wide, 3 ft. deep, course S. irregularly; asc. 20 ft. along rolling S. slope.

80.00 Point for the cor. of secs. 1, 2, 11 and 12.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 20 ins. in the ground and in a small mound of stone, with brass cap mkd.

T37S R18E

S 2 | S 1

S11 | S12

1957

Land, rolling.
Soil, sand and exposed shale.
Timber, dense juniper and pinion.

N. 0° 06' E., bet. secs. 1 and 2.

Over rolling land, through dense timber; asc. 80 ft. over S. slope.

27.50 Small wash draining irregularly from N., drains S. 15° W.

30.30 Base of abrupt ascent, bears N. 70° E. and S. 80° W.; asc. 140 ft. over S. slope.

40.00 Point for the 1/4 sec. cor. of secs. 1 and 2.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 6 ins. in the ground to bedrock and in a mound of stone, 2 1/2 ft. base to top, with brass cap mkd.

T37S R18E

1/4 S 2

S11

1957

Portion of the Subdivision, T. 37 S., R. 18 E.

Chains	Asc. 440 ft. over SE. slope to rim.
43.00	Leave wash draining irregularly S. from N. 80° W.
57.30	Rim of Maverick Point, ledge 20 ft. high, bears N. 50° E. and S. 60° W.; asc. 20 ft. along W. slope.
79.51	The cor. of secs. 1, 2, 35 and 36 on the N. bdy. of the Tp. monumented by a 2 in. iron post, set, mkd. and witnessed as described in the official record.
	Land, rolling to broken. Soil, shallow sand and shale exposure. Timber, dense juniper and pinion.
	From the true point for the cor. of secs. 15, 16, 21 and 22.
	N. 89°46' W., bet. secs. 16 and 21.
	Through dense timber; desc. 120 ft. over NW. slope to 1/4 sec. cor.
29.50	Enter wash draining W. from N. 75° E.
36.00	Leave wash draining N. 80° W. from E.
40.00	Point for the 1/4 sec. cor. of secs. 16 and 21.
	Set an iron post, 30 ins. long, 2 1/2 ins. diam., 16 ins. in the ground and in a mound of stone, 2 1/2 ft. base to top, with brass cap mkd.
	T37S R18E 1/4 S16 S21 1957
	Desc. 30 ft. along N. slope.
57.70	S. rim of Armstrong Canyon, a ledge 30 ft. high, bears NE. and SW.; desc. 190 ft. over broken ledges on NW. slope.
64.50	Junction of washes from SE. and NE., draining NW. in canyon.
79.50	Point selected for the witness cor. of secs. 16, 17, 20 and 21.
	Set an iron post, 30 ins. long, 2 1/2 ins. diam., 2 ins. in the ground to bedrock and in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T37S R18E W S17 S16 C S20 S21 1957
80.00	Point for the cor. of secs. 16, 17, 20 and 21, falls on facing of ledge about 30 ft. high, facing N., where the cor. cannot be monumented.
	Land, rolling. Soil, shallow sand and exposed sandstone. Timber, dense juniper and pinion.
	N. 0° 03' W., bet. secs. 16 and 17.
	Through dense timber; desc. 30 ft. over N. slope.
1.10	Wash, in the bottom of Armstrong Canyon, 50 lks. wide, 3 ft. deep, course N. 80° W.; asc. 210 ft. over ledges on S. slope.
25.60	N. rim of Armstrong Canyon, a ledge 30 ft. high bears E. and W.; cpnt. along W. slope.
40.00	Point for the 1/4 sec. cor. of secs. 16 and 17.

Portion of the Subdivision, T. 37 S., R. 18 E.

Chains

Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 2 ft. base to top, with brass cap mkd.

T37S R18E

½
S17 | S16
1957

Desc. 60 ft. over NW. slope.

72.30 Wash, 30 lks. wide, 3 ft. deep, course W.; asc. 30 ft. over S. slope.

80.00 Point for the cor. of secs. 8, 9, 16 and 17.

Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T37S R18E

S 8 | S 9
S17 | S16
1957

Land, rolling.

Soil, shallow sand and exposed sandstone.

Timber, dense juniper and pinion.

From the cor. of secs. 9, 10, 15 and 16.

N. 89° 44' W., bet. secs. 9 and 16.

Through dense timber; desc. 160 ft. over ledges on WNW. slope.

25.30 Wash, in bottom of Armstrong Canyon, 100 lks. wide, 50 ft. deep, course S.; asc. 80 ft. over ledges on E. slope.

39.97 Point for the ¼ sec. cor. of secs. 9 and 16.

Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock and in a mound of stone, 2 ft. base to top, with brass cap mkd.

T37S R18E

¼ S 9
S16
1957

Asc. 10 ft. over E. slope.

45.40 Ridge, bears N. 20° E. and S. 20° W.; desc. 90 ft. over rolling W. slope.

64.50 Wash, 20 lks. wide, 10 ft. deep, course S. 70° W.; asc. 10 ft.

67.00 Wash, 20 lks. wide, 4 ft. deep, course S. 30° W.; about 3 chs. to junction with wash from E.; asc. 10 ft. along S. slope.

79.95 The cor. of secs. 8, 9, 16 and 17.

Land, rolling.

Soil, shallow sand and exposed sandstone.

Timber, scattered to medium dense juniper and pinion.

Portion of the Subdivision, T. 37 S., R. 18 E.

Chains

From the cor. of secs. 4, 5, 32 and 33, on the S. bdy., monumented by an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of T. 38 S., R. 18 E.

N. 0° 03' W., bet. secs. 32 and 33.

Through dense timber.; asc. 70 ft. over gentle S. slope.

40.00

Point for the ¼ sec. cor. of secs. 32 and 33.

Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd.

T37S R18E

¼
S32|S33

1957

From which,

A pinion, 10 ins. diam., bears N. 50° 15' E., 22 lks. dist., mkd. ¼S33 BT.

A juniper, 12 ins. diam., bears S. 48° W., 22 lks. dist., mkd. ¼S32 BT.

Asc. 60 ft. over gentle S. slope.

80.00

Point for the cor. of secs. 28, 29, 32 and 33.

Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd.

T37S R18E

S29|S28
S32|S33

1957

From which,

A juniper, 14 ins. diam., bears N. 23° 30' E., 76 lks. dist., mkd. T37SR18ES28BT.

A pinion, 8 ins. diam., bears S. 190° 30' E., 6 lks. dist., mkd. T37SR18ES33BT.

A pinion, 10 ins. diam., bears S. 19° 45' W., 38 lks. dist., mkd. T37SR18ES32BT.

A juniper, 10 ins. diam., bears N. 67° 45' W., 12 lks. dist., mkd. T37SR18ES29BT.

Land, rolling.

Soil, sand.

Timber, dense juniper and pinion.

From the cor. of secs. 5, 6, 31 and 32 on the S. bdy. of the Tp., monumented by an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes for T. 38 S., R. 18 E.

N. 0° 03' W., bet. secs. 31 and 32.

Through dense timber; asc. 30 ft. over SW. slope.

7.00

Spur, slopes N. 80° W.; desc. 10 ft. along rolling NW. slope.

16.00

Wash, drains W.

38.80

Wash, 20 lks. wide, 4 ft. deep, course N. 80° W.; asc. 10 ft. along rolling W. slope.

40.00

Point for the ¼ sec. cor. of secs. 31 and 32.

Portion of the Subdivision, T. 37 S., R. 18 E.

Chains

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 20 ins. in the ground and in a mound of stone, 2 1/2 ft. base, to top, with brass cap mkd.

T37S R18E

S31|S32

1957

Desc. 10 ft. over rolling W. slope.

54.70 Wash, 10 lks. wide, 4 ft. deep, course S. 80° W.; asc. 60 ft. over SW. slope.

80.00 Point for the cor. of secs. 29, 30, 31 and 32.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 10 ins. in the ground and in a mound of stone, 2 ft. base, to top, with brass cap mkd.

T37S R18E

S30|S29

S31|S32

1957

Land, rolling.

Soil, sandy.

Timber, dense juniper and pinion.

From the cor. of secs. 28, 29, 32 and 33.

N. 89° 47' W., bet. secs. 29 and 32.

Over rolling land; through dense timber; desc. 120 ft. over rolling WSW. slope, over series of washes draining WSW.

40.02 Point for the 1/4 sec. cor. of secs. 29 and 32.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 2 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T37S R18E

1/4 S29

S32

1957

Desc. 50 ft. over rolling WSW. slope, over series of small washes draining generally SW.

80.04 The cor. of secs. 29, 30, 31 and 32.

Land, rolling.

Soil, sand and exposed sandstone.

Timber, dense juniper and pinion.

Township 37 South, Range 18 East

Chains

General Description

The land in the township varies from rolling bench land in the center and southern portions of the township, known as Cedar Mesa, to the higher mountainous land in the north. The western portion of the township is cut by numerous steep sided and box canyons. The drainage is mostly to the south and west. A narrow strip along the east boundary drains to the southeast.

The soil is principally a sandy clay, with a considerable amount of exposed, broken and eroded sandstone.

There is a dense growth of juniper and pinion over most of the township, with mountain oak and maple in the north, and scattered cottonwood in the canyon bottoms. The undergrowth is mainly sagebrush, with lesser amounts of rabbit brush, yellow brush, bitter brush, silverleaf, mountain rush, grass and weeds. There are no permanent inhabitants.

A considerable amount of prospecting for fissionable minerals has been and to some extent is still being carried on in the area.

The township is accessible by the Old Mormon Trail Road from Hite to Bluff in the southeast portion, and State highway No. 95, Blanding to Hite, bearing generally east and west through the center of the township.

Chains

Chains

General Description

The land in the township varies from a high bench land in the north and southern portions of the township, known as Cedar Mesa, to the higher mountains land in the north. The western portion of the township is cut by narrow, deep sided and bottomed. The drainage is mostly to the south and west. A narrow stream flows from the north into the south.

The soil is principally sandy clay, with a considerable amount of broken, broken and gravelly material.

There is a considerable amount of timber land in the township, the timber being mostly white pine, spruce, fir, and aspen. The timber is mostly in the eastern portion of the township. The timber is mostly in the eastern portion of the township.

A considerable amount of land is in the township, the land being mostly in the eastern portion of the township. The land is mostly in the eastern portion of the township.

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the ground
map.

CERTIFICATE OF CADASTRAL ENGINEER

I, Donald A. Cannon, HEREBY CERTIFY upon honor that in pursuance of special instructions bearing date of the 2nd day of April, 1957, I have surveyed a portion of the subdivision of T. 37 S., R. 18 E.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

November 1, 1957

Salt Lake City, Utah

Donald A. Cannon
Donald A. Cannon
Cartographic Survey Aid

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., 19

The foregoing field notes of the survey of
executed by
having been critically examined and found correct, are hereby approved.

Cadastral Engineering Staff Officer.

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in
is a true copy of the original field notes.

Cadastral Engineering Staff Officer

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Alburn D. Griffin	Principal Assistant
Max E. Swindle	Chainman
Parley Pratt	Flagman
Rulon S. Ellett	Axeman
Richard N. Brand	Cornerman

CERTIFICATE OF CADASTRAL ENGINEER

I, Fred R. Chappell, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 2nd day of April, 1957 I have surveyed a portion of the subdivision of T. 37 S., R. 18 E.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

November 1, 1957
Salt Lake City, Utah

Fred R. Chappell
Fred R. Chappell
Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., 19

The foregoing field notes of the survey of
executed by
having been critically examined and found correct, are hereby approved.

Chief, Division of Cadastral Engineering.

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in
is a true copy of the original field notes.

Chief, Division of Cadastral Engineering.

CERTIFICATE OF CADASTRAL ENGINEER

I, Vern E. Lane, HEREBY CERTIFY upon honor that in pursuance of special instructions bearing date of the 2nd day of April, 1957,

I have ~~surveyed~~ supervised the survey of a portion of the subdivision of T. 37 S., R. 18 E.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed ~~by me and under my direction~~ under my supervision; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

November 1, 1957
Salt Lake City, Utah

Vern E. Lane
Vern E. Lane
Cadastral Surveyor (Chief of Party)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., JUN 17 1958, 19

The foregoing field notes of the survey of a portion of the subdivision of T. 37 S., R. 18 E., S1M, Utah

executed ~~by me~~ under the supervision of Vern E. Lane, Chief of Party having been critically examined and found correct, are hereby approved.

Carl G. Harrington
Cadastral Engineering Staff Officer

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____, is a true copy of the original field notes.

Cadastral Engineering Staff Officer

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE

SURVEY OF THE NORTH BOUNDARY

AND

A PORTION OF THE

SUBDIVISION

TOWNSHIP 37 SOUTH, RANGE 19 EAST

Of the Salt Lake Meridian,

State of Utah

EXECUTED BY

Dell Cazier - Cadastral Surveyor

Craig P. Sylvester - Cartographic Survey Aid

Vern E. Lane - Cadastral Surveyor - (Chief of Party)

special instructions dated April 2, 1957, which provided

the surveys included under Group No. 406, approved April 10, 1957

assignment instructions dated June 14, 1957

Survey commenced JULY 2, 1957

Survey completed AUGUST 2, 1957

INDEX DIAGRAM

Township 37 South, Range 19 East

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31	17 16 32	16 33	7 34	35	7 6 36

16-56770-1

Craig P. Sylvester
 Dell Cazier

238

Township 37 South, Range 19 East

Chains

The east boundary was surveyed by A. Nelson and J. C. Terry, and its record appears in the official record of the 1919 survey of T. 37 S., R. 20 E. The west boundary was surveyed by R. C. Yundt and its record appears in the official record of the 1930 survey of the range line between Rs. 18 and 19 E., T. 37 S. The south boundary was concurrently surveyed in 1957 by Dell Cazier under Group 406, and the record appears in the field notes of T. 38 S., R. 19 E.

The following field notes are those of the survey of the north boundary and a portion of the subdivision of T. 37 S., R. 19 E., deemed sufficient in extent to facilitate development of the natural resources and mark the boundaries of those sections that normally are considered State school sections.

This survey was executed with two W. and L.E. Gurley transits, serial numbers 541326 and 461263, constructed in accordance with the standard instrumental specifications of the Bureau of Land Management. The instruments were in good adjustment prior to the beginning of the survey and were maintained in proper adjustment throughout the progress of the survey.

Corners on east-west lines were set on the true latitudinal curve. Lines connecting previously established corners were run by random and true method, but for simplification of the record the random lines are omitted from the field notes. In accordance with the special instructions, all subdivisional corners established are calculated to be at the position they would occupy if the entire township were subdivided.

Measurements herein contained were made with a narrow steel tape, 8 chains in length, graduated every link for the first 100 links and thereafter at intervals of 10 links. The tape was tested by comparison with a 1 chain standard steel tape and found to be correct. Measurements were made on the slope with the vertical angle of each interval ascertained by a clinometer in good adjustment; the field notes show horizontal equivalents only. All lines of this survey were run by direct method where the lines were accessible; lines inaccessible were run by traverse or triangulation methods. The details of such triangulation or traverse has been thoroughly checked and verified, and in order to simplify the record the diagrams and reductions are omitted from these field notes.

The direction of the lines of this survey were determined by reference to true meridians established on line by hour angle observations on Polaris or altitude observations on the sun. The lines were carried forward by sustained angulation and supplemented by numerous altitude observations on the sun taken throughout the progress of the survey.

The geographic position of the SE. corner of T. 37 S., R. 19 E. is latitude $37^{\circ} 31' 10.92''$ N. and longitude $109^{\circ} 24' 54.55''$ W., as determined by traverses from U. S. G. S. triangulation station "4-108A" which is situated in the east portion of sec. 2, T. 38 S., R. 20 E.

The magnetic declination was read at a number of stations throughout the township, and the average of these readings was found to be 15° E.

Chains

closed

Establishment of the cor. of Ts. 36 and 37 S., Rs. 19 and 20 E. at the intersection of lines extended N. and W. from the witness corners on the N. and W. bdrs. of sec. 6, T. 37 S., R. 20 E.

At the corner point

Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T36S
R19E R20E
S36 S31
S 1 S 6
T37S
1957

Corner is located on S. bank of wash in the bottom of Texas Canyon, draining easterly about 12 chs. to junction with Arch Canyon, course SE.

From the corner of Ts. 36 and 37 S., Rs. 19 and 20 E.

West, bet. secs. 1 and 36.

Along steep and broken N. slope in bottom of Texas Canyon, through dense growth of pinion and undergrowth of oak; asc. 165 ft.

24.80 Top of ascent, bears N. and S.; desc. 60 ft. along N. slope.

40.00 Point for the ¼ sec. cor. of secs. 1 and 36.

Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T36S R19E
¼ S36
S 1
T37S
1957

Desc. 25 ft. over N. slope.

41.80 Wash, drains N.; asc. 70 ft. over steep E. slope.

47.30 Spur, slopes N. 1 ch. and ends in prominent sandstone point; desc. 195 ft. along steep N. slope, over series of small spurs and washes draining N.

79.73 Point selected for the witness cor. of secs. 1, 2, 35 and 36.

Set an iron post, 30 ins. long, 2½ ins. diam., 14 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T36S R19E
W S35 S36
C S 2 S 1
T37S
1957

Continue along N. slope.

80.00 Point for the cor. of secs. 1, 2, 35 and 36 falls in small wash draining N. and cannot be perpetuated.

North Boundary of T. 37 S., R. 19 E.

Chains

Land, broken.
Soil, sand, rocks and exposed sandstone.
Timber, juniper with dense growth of oak and underbrush.

West, bet. secs. 2 and 35.

Along steep and broken N. slope in Texas Canyon, through heavy growth of pinion, oak and underbrush; asc. 200 ft.

Note: Due to inaccessibility of terrain, the N. bdy. of sec. 2 was surveyed by traverse, with true line topography scaled from U.S.G.S. map.

10.00 Sandstone point, projects N., 3 chs. to end, thence over series of inaccessible points and washes along S. breaks of Texas Canyon.

40.00 Point for the 1/4 sec. cor. of secs. 2 and 35 falls on inaccessible breaks of S. rim of Texas Canyon and was not monumented.

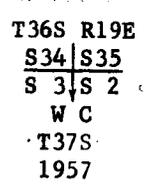
Continue over inaccessible breaks of S. rim of Texas Canyon.

76.00 Prominent flat topped sandstone point, projects 3 chs. to end; desc. about 200 ft. over W. slope of point.

80.00 Point for the cor. of secs. 2, 3, 34 and 35 falls on inaccessible breaks of S. rim of Texas Canyon and cannot be monumented.

The point selected for the witness cor. of secs. 2, 3, 34 and 35 bears N. 0° 01' W., 9.32 chs. dist. at this point.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 12 ins. in the ground, and in a mound of stone, 4 ft. base to top, with brass cap mkd.



Corner falls on W. bank of wash which drains NE. about 5 chs. to junction with main wash in Texas Canyon.

Land, broken.
Soil, sand, rocks and exposed sandstone.
Timber, heavy growth of pinion, oak and underbrush in washes and on slopes.

West, bet. secs. 3 and 34.

Over broken land, through heavy growth of pinion and oak; desc. 500 ft. over W. slope.

Note: Surveyed by triangulation with true line topography scaled from U.S.G.S. sheets.

10.00 Wash, drains N. 30° E.; asc. 1040 ft. over broken and ledgy SE slope to W. rim of Texas Canyon.

31.20 Crest of W. rim of Texas Canyon, bears SW. and N.; asc. 20 ft. along S. slope; end of triangulation.

40.00 Point for the 1/4 sec. cor. of secs. 3 and 34.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 10 ins. in the ground to bedrock, in mound of stone, 3 ft. base to top, with brass cap mkd.

Chains

11111111

T36S R19E

S34

S 3

T37S

1957

Asc. 40 ft. along steep and broken S. slope.

64.00 Draw, drains S. 85° E.; asc. 120 ft. along steep and broken NE. slope.

74.00 Draw, drains N. 72° E.; asc. 80 ft. along steep and broken SE. slope.

80.00 Point for the cor. of secs. 3, 4, 33 and 34.

Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T36S R19E

S33|S34

S 4|S 3

T37S

1957

Land, broken.

Soil, sand, rocks and exposed sandstone.

Timber, scattered to heavy growth of pinion and juniper, with heavy undergrowth of oak and bushes.

West, bet. secs. 4 and 33.

Over broken land and steep slopes, through scattered timber with heavy growth of oak and underbrush; asc. 840 ft. over steep E. slope.

24.70 Top of ascent, bears N. and S.; asc. 20 ft. over nearly level top of South Long Point, through yellow pine.

40.00 Point for the ¼ sec. cor. of secs. 4 and 33.

Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, and in a collar of stone, with brass cap mkd.

T36S R19E

S33

S 4

T37S

1957

Continue over top of South Long Point.

43.00 Unimproved road, bears N. and S., continue over top of Point.

61.30 Top of ascent; desc. 25 ft. over same point.

64.30 Crest of steep W. slope; desc. 400 ft.

76.10 Wash, drains S.; asc. 100 ft. over steep SE. slope.

80.00 Point for the cor. of secs. 4, 5, 32 and 33.

Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T36S R19E

S32|S33

S 5|S 4

T37S

1957

North Boundary of T36 S., R. 19 E.

Chains

Land, broken and level.
Soil, sand, rocks and exposed sandstone.
Timber, piñon and juniper, with some yellow pine on top of point,
heavy growth of oak and underbrush.

West, bet. secs. 5 and 32.

Over broken land, through medium growth of piñon and juniper, with
heavy growth of oak and underbrush; asc. 170 ft. over steep SE.
slope.

17.40 Top of ascent, bears NE. and SW.; thence over level top of point,
projecting S.

26.90 Crest of steep SW. slope; bears NW. and SE.; desc. 155 ft.

40.00 Point for the 1/4 sec. cor. of secs. 5 and 32.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 14 ins. in the ground
to bedrock, and in a mound of stone, 3 ft. base to top, with brass
cap mkd.

T36S R19E
S32
1/4 S 5
T37S
1957

Desc. 630 ft. over steep SW. slope.

67.00 Wash in bottom of Lyman Canyon, drains S.; asc. 230 ft. over steep
E. slope.

80.00 Point for the cor. of secs. 5, 6, 31 and 32.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 10 ins. in the ground
to bedrock, and in a mound of stone, 4 ft. base to top, with brass
cap mkd.

T36S R19E
S31 | S32
S 6 | S 5
T37S
1957

Land, broken and level on top of points.
Soil, sand and rocks,
Timber, medium growth of juniper and piñon, with heavy growth of
oak and underbrush.

West, bet. secs. 6 and 31.

Asc. 500 ft. over steep E. slope, through medium growth of timber,
with heavy growth of underbrush.

13.60 Crest of steep E. slope, bears N. and S.; asc. 15 ft. over level
top of Short Point.

20.80 Top of ascent, bears N. and S.; desc. 50 ft. over rolling top of
Short Point.

40.00 Point for the 1/4 sec. cor. of secs. 6 and 31.

North Boundary of T. 37 S., R. 19 E.

Chains

ended

Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground and in a collar of stone, with brass cap mkd.

T36S R19E

½ $\frac{S31}{S 6}$
T37S
1957

Desc. 30 ft. over gentle W. slope on top of Short Point.

54.50 Wash, 30 lks. wide, 4 ft. deep, drains S.; asc. 5 ft. over gentle E. slope.

63.30 Crest of steep W. slope; desc. 280 ft.

77.86 Intersect E. bdy. of sec. 36, T. 36 S., R. 18 E.

Point for the closing cor. of secs. 6 and 31.

Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T36S
R18E R19E
S36 $\frac{S31}{S 6}$ C
T37S
1957

From which the cor. of secs. 1, 6, 31 and 36, T.s 36 and 37 S., Rs. 18 and 19 E., bears S., 3.69 chs. dist., an iron post, 3 ins. diam., conforming to the record. Remarkd to function for secs. 1 and 36, Ts. 36 and 37 S., R. 18 E.

Land, broken.

Soil, sand and rocks.

Timber, medium growth of pinion and juniper, with heavy growth of oak and underbrush.

Portion of the Subdivision, T. 37 S., R. 19 E.

Beginning at the cor. of secs. 1, 2, 35 and 36 on the S. bdy., which is mkd. by an iron post, 2½ ins. diam., firmly set, mkd. and witnessed as described in the field notes of the concurrent survey of T. 38 S., R. 19 E.

N. 0° 01' W., bet. secs. 35 and 36.

Over rolling land, through dense juniper and pinion.

25.90 Wash, 30 lks. wide, 3 ft. deep, drains S. 45° E.

35.90 Pickett Fork, 25 lks. wide, 3 ft. deep, drains S. 80° E.

40.00 Point for the ¼ sec. cor. of secs. 35 and 36.

Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground and in a collar of stone, with brass cap mkd.

T37S R19E
½ $\frac{S35}{S36}$
1957

Portion of the Subdivision, T. 37 S., R. 19 E.

Chains	By triangulation
30.00	End of triangulation on S. rim of small mesa, thence over nearly level top.
73.44	Point for the cor. of secs. 25, 26, 35 and 36.
80.00	Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, and in a mound of stone, 2½ ft. base to top, with brass cap mkd.
	<p style="text-align: center;">T37S R19E <u>S26</u> <u>S25</u> S35 S36 1957</p>
	<p>Land, rolling. Soil, deep sandy. Timber, dense juniper and pinion; undergrowth, scattered artemesia.</p>
	<p>Beginning at the cor. of secs. 25, 30, 31 and 36 on the E. bdy., which is mkd. by an iron post, 2½ ins. diam., firmly set, mkd. and witnessed as described in the official record of the survey of the range line bet. Rs. 19 and 20 E., T. 37 S.</p>
	<p>S. 89° 41' W., bet. secs. 25 and 36.</p>
	<p>Over rolling land, through dense juniper and pinion.</p>
19.60	Dry wash, drains SE.
40.06	Point for the ¼ sec. cor. of secs. 25 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, with brass cap mkd.
	<p style="text-align: center;">T37S R19E ¼ <u>S25</u> S36 1957</p>
	Deposit a sandstone, 6x6x2 ins., mkd. with a cross (X) alongside the post.
	By traingulation; asc. 90 ft. over steep NE. slope.
59.75	End of triangulation on spur, projecting SE.; thence over nearly level land.
80.12	The cor. of secs. 25, 26, 35 and 36.
	<p>Land, rolling. Soil, deep sandy. Timber, dense juniper and pinion; undergrowth, scattered artemesia.</p>
	<p>Beginning at the cor. of secs. 3, 4, 33 and 34 on the S. bdy., which is mkd. by an iron post, 2½ ins. diam., firmly set, mkd. and witnessed as described in the field notes of the concurrent survey of T. 38 S., R. 19 E.</p>
	<p>N. 0° 02' W., bet. secs. 33 and 34.</p>
	<p>Asc. 60 ft. on the E. side of the S. fork of Fish Creek.</p>

Portion of the Subdivision, T. 37 S., R. 19 E.

Chains		acres
19.20	Spur, sloping SE.; desc. over NE. slope.	
22.30	By triangulation; desc. over NE. facing broken ledges.	44.85
40.00	Point for the $\frac{1}{4}$ sec. cor. of secs. 33 and 34. Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 8 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd.	00.08
	T37S R19E $\frac{1}{4}$ S33 S34 1957	
45.00	Wash, 20 lks. wide, 2 ft. deep, drains SE.	
59.20	End of triangulation; asc. 60 ft. over steep S. slope.	
80.00	Point for the cor. of secs. 27, 28, 33 and 34. Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 6 ins. in the ground, and in a mound of stone, $3\frac{1}{2}$ ft. base to top, with brass cap mkd.	
	T37S R19E S28 S27 S33 S34 1957	
	Land, broken. Soil, sandy, with exposed sandstone ledges. Timber, dense juniper and pinion; undergrowth, moderate artemesia. Ti	
	N. $0^{\circ} 02'$ W., bet. secs. 27 and 28.	
	Over rolling land, through dense juniper and pinion; asc. 40 ft. over S. slope.	
10.00	Top of ascent; desc. 20 ft. over NE. slope.	
17.00	Ledge, 20 ft. high, bears NW. and SE.; by traingulation cross Fish Creek.	
40.00	True point for the $\frac{1}{4}$ sec. cor. of secs. 27 and 28 falls in the bottom of Fish Creek where the monument cannot be perpetuated.	
57.50	Point selected for the witness $\frac{1}{4}$ sec. cor. of secs. 27 and 28. Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 6 ins. in the ground to bedrock, and supported in a mound of stone, 3 ft. base to top, with brass cap mkd.	
	T37S R19E $\frac{1}{4}$ S28 S27 W C 1957	
	Desc. 100 ft. over nearly vertical N. facing ledge.	
60.50	Wash, 20 lks. wide, 2 ft. deep, drains SW.; asc. 100 ft. over nearly vertical SE. facing ledges.	
68.70	End of triangulation; asc. 35 ft. over slight S. slope.	

Section of the Subdivision, T. 37 S., R. 19 E.

Chains	
80.00	<p>Point for the cor. of secs. 21, 22, 27 and 28.</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and supported in a mound of stone, 4 ft. base to top, with brass cap mkd.</p> <p style="text-align: center;">T37S R19E S21 S22 S28 S27 1957</p> <p>Land, broken, cut by canyons. Soil, sandy, with large areas of exposed sandstone. Timber, dense juniper and pinion; undergrowth, scattered artemesia.</p>
	<p>N. 0° 02' W., bet. secs. 21 and 22.</p>
	<p>Over broken land, through dense juniper and pinion.</p>
15.20	<p>S. rim of mesa, bears NE. and SW.; thence over nearly level mesa top, through dense juniper and pinion.</p>
40.00	<p>Point for the ¼ sec cor. of secs. 21 and 22.</p>
	<p>Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 3 ft. base to to top, with brass cap mkd.</p>
	<p style="text-align: center;">T37S R19E ¼ S21 S22 1957</p>
61.75	<p>Round red sandstone, approx. 12 ft. diam.</p>
78.70	<p>State Highway No. 95, bears E. and W.</p>
80.00	<p>True point for the cor. of secs. 15, 16, 21 and 22 falls in wash, 20 lks. wide, 1 ft. deep, drains SE. where the monument cannot be perpetuated.</p>
	<p>Land, S. ½ nearly level mesa top, N. ½ broken with sandstone ledges. Soil, sandy, with large areas of exposed sandstone. Timber, dense juniper and pinion; undergrowth, scattered artemesia.</p>
	<p>N. 0° 02' W., bet. secs. 15 and 16.</p>
	<p>Over steep boulder strewn S. sloping talus.</p>
0.20	<p>Point selected for the witness cor. of secs. 15, 16, 21 and 22.</p>
	<p>Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd.</p>
	<p style="text-align: center;">T37S R19E S16 S15 S21 S22 W C 1957</p>
	<p>By triangulation asc. over steep, boulder strewn S. sloping talus.</p>
4.00	<p>End of triangulation, approx. 8 chs. below crest of hill.</p>

Portion of the Subdivision, T. 37 S., R. 19 E.

Chains	Entered
40.00	<p>Asc. 145 ft. over steep S. slope, through dense juniper and pinion.</p> <p>Point for the $\frac{1}{4}$ sec. cor. of secs. 15 and 16.</p> <p>Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 8 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd.</p> <p style="text-align: center;">T37S R19E $\frac{1}{4}$ S16 S15 1957</p>
48.00	Desc. 160 ft. over steep NE. slope.
64.00	End of descent; asc. 105 ft. over E. slope.
80.00	<p>Point for the cor. of secs. 9, 10, 15 and 16.</p> <p>Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 10 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd.</p> <p style="text-align: center;">T37S R19E S 9 S10 S16 S15 1957</p>
<p>Land, broken. Soil, deep sandy. Timber, dense juniper and pinion, interspersed with dense groves of scrub oak; undergrowth, thickets of service berries, silver leaf and various other mountain shrubs.</p>	
<p>N. 0° 02' W., bet. secs. 9 and 10.</p>	
<p>Over broken land, through dense juniper and pinion, with a few scattered ponderosa pines and dense groves of scrub oak.</p>	
1.00	Bulldozed road, bears S. 10° W. and N. 10° E.; asc. over E. slope.
19.00	Top of ascent, bears N. 10° E. and S. 10° W.
35.00	Enter dense grove of scrub oak, bears E. and W.
40.00	<p>Point for the $\frac{1}{4}$ sec. cor. of secs. 9 and 10.</p> <p>Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 10 ins. in the ground, and in a mound of stone, 4 ft. base to top, with brass cap mkd.</p> <p style="text-align: center;">T37S R19E $\frac{1}{4}$ S 9 S10 1957</p>
<p>Asc. 200 ft. over steep SE. slope.</p>	
45.00	Leave grove of oak, bears E. and W.
48.10	Bulldozed road, bears N. 70° E. and S. 70° W.
65.35	Spur, projects E.; desc. 70 ft. over N. slope.
80.00	<p>Point for the cor. of secs. 3, 4, 9 and 10.</p> <p>Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 8 ins. in the ground, and in a mound of stone, $3\frac{1}{2}$ ft. base to top, with brass cap mkd.</p>

Section of the Subdivision, T. 37 S., R. 19 E.

Chains

T37S R19E

S 4 | S 3

S 9 | S 10

1957

from which

A pinion, 8 ins. diam., bears S. 18° 04' E., 51 lks. dist., mkd. T37S R19E S10 ST.

A pinion, 12 ins. diam., bears S. 24° 48' W., 1.14 chs. dist., mkd. T37S R19E S9 ST.

Land, mountainous.

Soil, near loam.

Timber, dense juniper and pinion, with a few scattered ponderosa pines; undergrowth, various mountain shrubs.

N. 0° 13' W., bet. secs. 3 and 4.

Desc. 480 ft. over rough broken land, through dense juniper and pinion and scattered ponderosa pine.

15.00 Trail, bears N. 80° E. and S. 80° W.

22.00 Wash, 20 lks. wide, 2 ft. deep, drains S. 70° E.; asc. steep S. slope.

28.30 Spur, sloping SE.; desc. over steep E. slope.

40.00 Point for the 1/4 sec. cor. of secs. 3 and 4.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 10 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T37S R19E

1/4

S 4 | S 3

1957

Over series of spurs and washes.

82.84 The cor. of secs. 3, 4, 33 and 34 on the N. bdy. of the township.

Land, broken.

Soil, sandy.

Timber, dense juniper, pinion, with a few scattered ponderosa pines along the higher ridges; undergrowth, scattered shrubs.

From the true point for the cor. of secs. 1, 2, 35 and 36 on the N. bdy. of the township.

S. 0° 01' E., bet. secs. 1 and 2.

Over broken land, through scattered timber, with heavy growth of oak and underbrush; asc. about 860 ft. over steep N. slope and ledges facing N.

20.40 Crest of S. rim of Texas Canyon, bears E. and W.; asc. 100 ft. over rolling N. slope, through heavy timber.

42.07 Point for the 1/4 sec. cor. of secs. 1 and 2.

Chains

K11110

Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground, to bedrock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.

T37S R19E
S 2 | S 1
1957

Asc. 35 ft. over rolling E. slope.

- 44.00 Trail, bears N. 10° W. and SE.
- 56.30 Top of ascent, bears E. and W.; desc. 105 ft. along E. slope.
- 59.00 Wash, 30 lks. wide, 4 ft. deep, drains E.; desc. 125 ft. along broken E. slope.
- 82.07 Point for the cor. of secs. 1, 2, 11 and 12.

Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T37S R19E
S 2 | S 1
S11 | S12
1957

Land, broken and rolling.
Soil, sand and exposed sandstone.
Timber, heavy growth of juniper and pinion.

S. 89° 43' W., bet. secs. 2 and 11 on a theoretical parallel connecting the cor. of secs. 1, 6, 7 and 12 on the E. bdy., and the cor. of secs. 3, 4, 9 and 10.

Asc. 55 ft. over E. slope, through medium timber.

- 8.20 Top of ascent, bears N. and S.; desc. 120 ft. along broken S. slope.
- 30.60 Wash, 30 lks. wide, 3 ft. deep, drains S.; asc. 10 ft. over S. slope.
- 40.00 Point for the ¼ sec. cor. of secs. 2 and 11.

Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground, and in a collar of stone, with brass cap mkd.

T37S R19E
¼ S 2
S11
1957

Continue over gentle S. slope.

- 43.70 Slope changes to steep SW. slope; desc. 130 ft. into ravine draining S.
- 48.50 Wash, drains S.; asc. 170 ft. over broken E. slope.
- 52.70 Spur, slopes S. 20° E., 6 chs. to end; desc. 120 ft. over SW. slope into small canyon.
- 58.00 Wash, drains S. 30° E.; asc. 230 ft. over steep E. slope.
- 72.60 Spur, slopes S.; desc. 30 ft. over steep W. slope.

Portion of the Subdivision, T. 37 S., R. 19 E.

Chains

179.00

Wash, 10 lks. wide, 3 ft. deep, drains S.; asc. 20 ft. over steep E. slope.

80.00

Point for the cor. of secs. 2, 3, 10 and 11.

Set an iron post, 30 ins. long, 2 1/4 ins. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 3 1/4 ft. base to top, with brass cap mkd.

T37S R19E
S 2 | S 2
S10 | S11
1957

Land, rolling and broken.
Soil, sand and rocks.
Timber, heavy growth of juniper and pinion.

N. 0° 03' W., bet. secs. 2 and 3.

Over rolling to broken land, through medium growth of timber; asc. 10 ft. over E. slope.

8.60

Top of ascent in saddle of spur, extending E.; desc. 130 ft. along E. slope.

23.10

Wash, 20 lks. wide, 3 ft. deep, drains S. 45° E.; asc. 110 ft. over SW. slope.

40.00

Point for the 1/4 sec. cor. of secs. 2 and 3.

Set an iron post, 30 ins. long, 2 1/4 ins. diam., 22 ins. in the ground, and in a collar of stone, with brass cap mkd.

T37S R19E
1/4
S 2 | S 3
1957

Asc. 10 ft. over SW. slope.

43.50

Trail, bears N. 20° E. and S. 20° W.

45.90

Spur, slopes SW.; desc. 20 ft. over NW. slope.

50.00

Wash, 40 lks. wide, 4 ft. deep, drains S. 30° W.; asc. 25 ft. over SE. slope.

54.30

Top of ascent, bears SW. and NE.; desc. 240 ft. over steep and broken N. slope.

74.60

S. rim of Texas Canyon, bears E. and W.; desc. about 360 ft. over broken N. slope and ledges facing N.

82.37

True point for the cor. of secs. 2, 3, 34 and 35 on the N. bdy.

Land, broken.
Soil, sand, rocks and exposed sandstone.
Timber, heavy growth of pinion and juniper, with heavy growth of oak and underbrush on N. slope.

Portion of the Subdivision of T. 37 S., R. 19 E.

Chains		and
	Beginning at the true point for the cor. of secs. 15 and 16, S. 89° 46' W., bet. secs. 16 and 21.	
	Over broken land, through dense juniper and pinion.	
3.00	State Highway No. 95, bears N. 45° W. and S. 45° E.	
20.00	Spur, sloping SW.; desc. 40 ft. over W. slope.	
25.00	Small wash, drains SW.; asc. 200 ft. over SE. slope.	
37.00	Spur, sloping SW.; desc. 45 ft. over W. slope.	
40.00	Point for the 1/4 sec. cor. of secs. 16 and 21.	
	Set an iron post, 30 ins. long, 2 1/2 ins. diam., 6 ins. in the ground, and in a mound of stone, 4 ft. base to top, with brass cap mkd.	
	T37S R19E S16 S21 1957	
	Desc. 40 ft. over W. slope.	
43.00	Small wash, drains S.; asc. along S. slope.	
64.00	State Highway No. 95, bears S. 50° W. and N. 50° E.	
80.00	Point for the cor. of secs. 16 and 17, 20 and 21.	
	Set an iron post, 30 ins. long, 2 1/2 ins. diam., 6 ins. in the ground, and in a mound of stone, 4 ft. base to top, with brass cap mkd.	
	T37S R19E S17 S16 S20 S21 1957	
	Land, broken. Soil, sandy, with exposed sandstone. Timber, dense juniper and pinion; undergrowth, scattered artemesia.	
	N. 0° 03' W., bet. secs. 16 and 17.	
	Over rolling land, through dense juniper and pinion.	
8.00	Wash, 30 lks. wide, 2 ft. deep, drains SW.; asc. 400 ft. over steep S. sloping talus.	
40.00	True point for the 1/4 sec. cor. of secs. 16 and 17 falls on the face of ledge, 35 ft. high, facing E. where it is impractical to set the monument.	
42.40	Point selected for the 1/4 sec. witness cor. of secs. 16 and 17 on a spur projecting SW.	
	Set an iron post, 30 ins. long, 2 1/2 ins. diam., 6 ins. in the ground, and in a mound of stone, 4 ft. base to top, with brass cap mkd.	
	T37S R19E S17 S16 W C 1957	

Portion of the Subdivision, T. 37 S., R. 19 E.

Chains

80.00

Asc. 360 ft. along broken SW. facing ledges.

Point for the cor. of secs. 8, 9, 16 and 17.

Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T37S R19E
S 8 | S 9
S17 | S16
1957

Land, broken.
Soil, sandy, with exposed sandstone.
Timber, dense juniper and pinion; undergrowth, scattered artemesia.

3.90

From the cor. of secs. 9, 10, 15 and 16.

S. 89° 46' W., bet. secs. 9 and 16.

Asc. 160 ft. over nearly vertical ledge.

E. rim of mesa, thence over nearly level mesa top, through dense juniper and pinion.

18.00

E. edge of sagebrush covered flat, timber bears N. and S.

22.00

W. edge of sagebrush covered flat, enter dense juniper and pinion, bears S. 10° E. and N. 10° W.

38.00

E. edge of sagebrush covered flat, bears S. 40° E. and N. 40° W.

40.06

Point for the ¼ sec. cor. of secs. 9 and 16.

Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd.

T37S R19E
¼ | 9
S16
1957

48.00

Enter dense juniper and pinion, bears S. 30° E. and N. 30° W.; asc. gentle E. slope.

56.00

Top of ascent; desc. 160 ft. over W. slope.

80.12

The cor. of secs. 8, 9, 16 and 17.

Land, nearly level mesa top.
Soil, nearly loam.
Timber, dense juniper and pinion; undergrowth, moderate silverleaf, buckbrush and various other shrubs.

Beginning at the cor. of secs. 4, 5, 32 and 33 on the S. bdy., which is mkd. by an iron post, 2½ ins. diam., firmly set, mkd. and witnessed as described in the field notes of the concurrent survey of T. 38 S., R. 19 E.

N. 0° 03' W., bet. secs. 32 and 33.

Over rolling land, through dense juniper and pinion.

Chains	Station
40.00	<p>Point for the $\frac{1}{4}$ sec. cor. of secs. 32 and 33, T. 37 S., R. 19 E.</p> <p>Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 6 ins. in the ground, and in a mound of stone, $3\frac{1}{2}$ ft. base to top, with brass cap mkd.</p> <p style="text-align: center;">T37S R19E $\frac{1}{4}$ S32 S33 1957</p>
47.00	S. rim of the S. fork of Fish Creek. By triangulation across canyon.
52.00	N. rim of the S. fork of Fish Creek.
60.00	End of triangulation on S. tip of spur, sloping S.; asc. 160 ft. over S. slope.
80.00	<p>Point for the cor. of secs. 28, 29, 32 and 33.</p> <p>Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 18 ins. in the ground, and in a small mound of stone, with brass cap mkd.</p> <p style="text-align: center;">T37S R19E $\frac{1}{4}$ S29 S28 S32 S33 1957</p>
	<p>Land, rolling.</p> <p>Soil, deep sandy.</p> <p>Timber, dense juniper and pinion; undergrowth, sparse growth of artemesia.</p>
	<p>Beginning at the cor. of secs. 5, 6, 31 and 32 on the S. bdy., which is mkd. by an iron post, $2\frac{1}{2}$ ins. diam., firmly set, mkd. and witnessed as described in the field notes of the concurrent survey of T. 38 S., R. 19 E.</p>
	N. $0^{\circ} 03'$ W., bet. secs. 31 and 32.
	Asc. 80 ft. over E. slope.
3.00	Spur, projecting NE.; desc. 160 ft. over NW. slope.
15.00	Wash, 20 lks. wide, 2 ft. deep, drains S. 45° E.; asc. 120 ft. over S. slope.
40.00	<p>Point for the $\frac{1}{4}$ sec. cor. of secs. 31 and 32.</p> <p>Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 12 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd.</p> <p style="text-align: center;">T37S R19E $\frac{1}{4}$ S31 S32 1957</p>
	Asc. 80 ft. over gentle SE. slope.
80.00	<p>Point for the cor. of secs. 29, 30, 31 and 32.</p> <p>Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 18 ins. in the ground, and in a small mound of stone, with brass cap mkd.</p>

Portion of the Subdivision, T. 37 S., R. 19 E.

Chains

T37S R19E
S30|S29
S31|S32
1957

Land, rolling.
Soil, deep sandy.
Timber, dense juniper and pinion; undergrowth, sparse growth of artemesia.

From the cor. of secs. 28, 29, 32 and 33.

S. 89° 48' W., bet. secs. 29 and 32.

Over rolling land, through dense juniper and pinion.

8.40 E. rim of S. fork of Fish Creek. By triangulation cross canyon.

30.00 W. rim of S. fork of Fish Creek. End of triangulation.

33.00 Wash, drains SE.

39.97 Point for the 1/4 sec. cor. of secs. 29 and 32.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., on sandstone outcrop, and in a mound of stone, 3 1/2 ft. base to top, with brass cap mkd.

T37S R19E
1/4 S29
S32
1957

79.94 The cor. of secs. 29, 30, 31 and 32.

Land, rolling.
Soil, deep sandy.
Timber, dense juniper and pinion; undergrowth, scattered artemesia.

GENERAL DESCRIPTION

The land of T. 37 S., R. 19 E. is for the most part rolling. However, there is a finger mesa with a steep erosional scarp extending into the township from the N. The E. rim of the mesa enters the township on the N. bdy. near the cor. of secs. 3, 4, 33 and 34 and bears S. approx. 3 miles, thence W. for 2 miles, thence N., leaving the township at the N. bdy. near the cor. of secs. 5, 6, 31 and 32. The rolling land is cut by several canyons. The N. fork of Mule Canyon heads in the area of sec. 11 and drains SE., leaving the township near the 1/4 sec. cor. of secs. 13 and 18. Mule Canyon heads in the area of sec. 15 and drains S. 30° E., leaving the township in the vicinity of the 1/4 sec. cor. of secs. 19 and 24 on the E. bdy. Fish Creek heads in the area of sec. 17 and drains S., leaving the township in the vicinity of the cor. of secs. 2, 3, 34 and 34 on the S. bdy. The S. fork of Fish Creek heads in the area of sec. 20 and drains S. 45° E., leaving the township on the S. bdy. in the E. 1/4 mile of sec. 33. The E. 3 miles of the N. bdy. parallel the S. rim of Texas Canyon. These canyons are rimmed with inaccessible, vertical ledges throughout most of their length.

The elevation of the township ranges from approx. 5800 ft. above sea level in the bottom of the canyons to a maximum of 8300 ft. along the top of the finger mesa, South Long Point, on the N. bdy.

Chains

and

There are two roads in the township. State Highway No. 95 enters the township on the E. bdy. near the cor. of secs. 19, 24, 25 and 30 and bears NW. to a point near the SE. cor. of sec. 16, where it changes bearing to the W., roughly paralleling the S. bdy. of sec. 16 to a point near the SW. cor. of sec. 16. Thence westerly to a point on the W. bdy. near the $\frac{1}{2}$ sec. cor. of secs. 13 and 18 where it leaves the township. The second road enters the township on the N. bdy. near the $\frac{1}{2}$ sec. cor. of secs. 4 and 33 and bears S. along the top of South Long Point for approx. 2 miles.

There are two distinct soil and vegetation types found throughout this township. The soil on South Long Point is a rich mountain loam and produces a fine stand of yellow pine, pinion and jack pine, with dense groves of scrub oak, silverleaf, service berry, chokecherry, sagebrush and grass. The soil covering the remainder of the township is residual sandy silt and produces a dense growth of dwarf juniper and pinion. The undergrowth is found in patches and along the canyon rims and consists of black brush, silverleaf, mountain rush and cacti.

There were no permanent sources of water encountered within the boundaries of the township during this survey.

There has been considerable activity in the mining and prospecting of uranium and related minerals in the area, but there are no producing mines or patented claims within the township. There has been some commercial timber cutting on South Long Point and some of the juniper in the SW. portion of the township have been cut for posts. Other than these limited operations, the land is utilized for grazing of cattle.

CERTIFICATE OF CADASTRAL ENGINEER

We, Dell Cazier and Craig P. Sylvester, HEREBY CERTIFY upon honor that
pursuance of special instructions bearing date of the 2nd day of April,

we have surveyed the north boundary and a portion of the subdivision of T. 37 S.,
19 E.

of the Salt Lake Meridian, in the State of Utah, which are
represented in the foregoing field notes as having been executed by ~~me~~^{US} and under ~~my~~^{OUR} direction; and that
said survey has been made in strict conformity with said instructions, the Manual of Instructions for the
Survey of the Public Lands of the United States, and in the specific manner described in the foregoing
field notes.

April 8, 1958
Salt Lake City, Utah

Craig P. Sylvester
Craig P. Sylvester - Cartographic Surveyor
Dell Cazier
Dell Cazier - Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., _____, 19____

The foregoing field notes of the survey of _____
executed by _____
having been critically examined and found correct, are hereby approved.

Cadastral Engineering Staff Officer.

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____
is a true copy of the original field notes.

Cadastral Engineering Staff Officer.

CERTIFICATE OF CADASTRAL ENGINEER

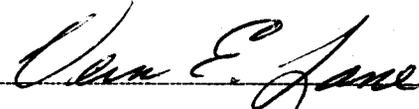
I, Vern E. Lane, HEREBY CERTIFY upon honor the
pursuance of special instructions bearing date of the 2nd day of April

I have ~~surveyed~~ supervised the survey of the north boundary and a portion of the
subdivision of T. 37 S., R. 19 E.

of the Salt Lake Meridian, in the State of Utah, which are
represented in the foregoing field notes as having been executed ~~by the said Cadastral Engineer~~ under my supervision; and that
said survey has been made in strict conformity with said instructions, the Manual of Instructions for the
Survey of the Public Lands of the United States, and in the specific manner described in the foregoing
field notes.

April 8, 1958

Salt Lake City, Utah


Vern E. Lane - Cadastral Surveyor

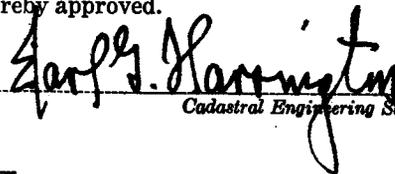
CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., JUN 17 1958, 1958

The foregoing field notes of the survey of the north boundary and a portion of the
subdivision of Township 37 South, Range 19 East, Salt Lake Meridian, Utah

executed by Dell Cazier and Craig P. Sylvester, under the supervision of Vern E. Lane,
having been critically examined and found correct, are hereby approved.


George G. Harrington
Cadastral Engineering Staff Officer.

CERTIFICATE OF TRANSCRIPT

~~I CERTIFY that the foregoing transcript of the field notes of the above described surveys in
is a true copy of the original field notes.~~

~~Cadastral Engineering Staff Officer~~

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE

SURVEY

OF

A PORTION OF THE SUBDIVISION

OF

TOWNSHIP 37 SOUTH, RANGE 20 EAST

*Page 3, line between
secs 15 & 16, the distance
40.00 inserted for
1/4 sec cor.*

Of the Salt Lake Meridian,

State of Utah

EXECUTED BY

Craig P. Sylvester - Cartographic Survey Aid

Boyd S. Owens - Cartographic Survey Aid

Vern E. Lane - Cadastral Surveyor - (Chief of Party)

special instructions dated April 2, 1957, which provided

the surveys included under Group No. 406, approved April 10, 1957

assignment instructions dated June 14, 1957

Survey commenced August 5, 1957

Survey completed August 5, 1957

INDEX DIAGRAM

Township 37 South, Range 20 East

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30	29	28	27	26	25
31	32	33	34	35	36

16-56770-1

Craig P. Sylvester
 Boyd S. Owens

2137

Township 37 South, Range 20 East

Chains

The south, east, north and west boundaries and a portion of the subdivision, Township 37 South, Range 20 East, was surveyed by Andrew Nelson and T. C. Terry in 1919. The following field notes are those of a survey of a portion of the subdivision, considered sufficient in extent to mark the boundaries of section 16, normally considered as State school land, and to facilitate the development of the natural resources. All corners of the subdivision are established at points calculated to be in the same position they would occupy if the township had been completely subdivided.

The survey was executed with W. and L. E. Gurley solar transit No. 481346, and W. and L. E. Gurley solar transit No. 461263, both being the property of the Bureau of Land Management and constructed in accordance with their standard specifications. The instruments have full vertical circles and improved type solar attachments. The horizontal plate has two double verniers placed opposite each other, and the vertical circle has one double vernier. All verniers of the transit and solar attachment are graduated to single minutes of arc. Since the solar attachments were not used, no description of them will be included here. The instruments were in good adjustment, and prior to the beginning of the field work they were examined and all errors eliminated. They were maintained in good adjustment during the survey.

The geographic position of the southeast corner of Section - 21, determined through ties made to U. S. Geological Survey triangulation station No. "4-108A" in Township 38 South, Range 20 East, section 1 is as follows:

Latitude $37^{\circ} 32' 55.32''$ N.
Longitude $109^{\circ} 42' 39.64''$ W.

The mean magnetic declination was found to be 15° E.

The geographic position of U. S. Geological Survey triangulation station No. "4-108A" in Township 38 South, Range 20 East, section 1 is as follows:

Latitude $37^{\circ} 30' 47.68''$ N.
Longitude $109^{\circ} 40' 28.88''$ W.

The direction of the lines of the survey were determined by reference to true meridians established on line by altitude observations on the sun. The lines were carried forward as transit lines and checked by succeeding observations.

The measurements were made with steel ribbon tapes, eight chains in length. These tapes are graduated every link for the first chain, and thereafter at intervals of every ten links. They were tested by comparison with a Lufkin standard steel tape, one chain in length, and found to be correct. The measurements were made on the slope, the vertical angle of each interval determined by the use of clinometers, and the slope distances properly reduced to horizontal equivalents, which appear in these notes. In most cases the distances were determined by chaining, but in some instances they were obtained by triangulation and in others by traverses and offsets. The details of these were thoroughly verified and only the true line distances and given in these notes.

Portion of the Subdivision, T. 37 S., R. 20 E.

Chains

Beginning at the sec. cor. of secs. 21, 22, 27 and 28, an iron post, 2 ins. diam., set, marked and witnessed as described in the official record.

N. $0^{\circ} 02'$ W., bet. secs. 21 and 22.

Over rolling land, through moderate pinion and juniper.

Asc. 70 ft. over rolling SE. slope.

33.50 Top of ascent, bears NW. and SE.

Desc. 20 ft. over NE. slope.

40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 21 and 22.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 18 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T37S R20E

$\frac{1}{4}$
S21 | S22
1957

Over nearly level land, through heavy pinion and juniper.

45.60 South rim of Arch Canyon, bears NW. and SE.; desc. 680 ft. over slope and ledges, facing NE.

62.00 Wash, in bottom of Arch Canyon, drains SE.; asc. 520 ft. over slope and ledges, facing SW.

80.00 True point for the sec. cor. of secs. 15, 16, 21 and 22, falls on inaccessible ledge of N. rim of Arch Canyon, and cannot be monumented.

Land, rolling and broken.

Soil, sandy.

Timber, medium to heavy juniper and pinion; undergrowth, moderate blackbrush.

N. $89^{\circ} 46'$ W., bet. secs. 16 and 21.

Over broken land.

Asc. about 120 ft. along N. rim of Arch Canyon, over ledges facing S.

17.00 Point, projects S.; desc. about 560 ft. over ledges and slope facing SW.

31.00 Wash, 1 ch. wide, 2 ft. deep, in bottom of Arch Canyon, drains SE.; asc. 40 ft. over gentle NE. slope.

38.73 Point selected for the witness $\frac{1}{4}$ sec. cor. of secs. 16 and 21.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 8 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T37S R20E

W $\frac{1}{4}$ S16
C S21
1957

Portion of the Subdivision, T. 37 S., R. 20 E.

Chains

Asc. 120 ft. over broken ledges facing NE.

0.19 True point for the $\frac{1}{4}$ sec. cor. of secs. 16 and 21 falls on ledges where corner cannot be perpetuated.

Asc. 680 ft. over broken NE. slope.

9.00 South rim of Arch Canyon, bears NW. and SE.; thence over rolling land, through thick juniper and pinion.

0.38 The sec. cor. of secs. 16, 17, 20 and 21, monumented by an iron post 2 ins. diam., set, mkd. and witnessed as described in the official record.

Land, broken.
Soil, rocky.
Timber, moderate to heavy juniper and pinion; undergrowth, scattered black brush and grass.

From the true point for the cor. of secs. 15, 16, 21 and 22.

N. 0° 02' W., bet. secs. 15 and 16.

Over broken land; asc. 250 ft. over ledges facing SW. to N. rim of Arch Canyon.

4.40 N. rim of Arch Canyon, bears N. 70° W. and S. 70° E.; thence over top of point projecting S. 70° E.

4.55 Point selected for the witness cor. of secs. 15, 16, 21 and 22.

Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., on solid rock, over a cross (X), and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T37S R20E
S16|S15
S21|S22
W C
1957

Continue over top of point.

0.00 N. rim of point, bears S. 60° E. and N. 60° W.; desc. 520 ft. over ledges facing NE. By triangulation.

0.50 Wash, drains S. 50° E.; asc. 520 ft. over ledges facing SE.

0.50 Point, projects S. 20° E.; desc. about 80 ft. over ledges facing E.

0.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 15 and 16, falls on inaccessible ledges and was not monumented; desc. 180 ft. along ledges facing E.

0.50 Wash, drains S. 15° E.; asc. 280 ft. along ledges facing SW.

0.00 Point for the cor. of secs. 9, 10, 15 and 16, falls on inaccessible ledges facing SW. and cannot be monumented.

Land, broken.
Soil, exposed sandstone.
Timber, scattered juniper and pinion on top of points.

From the cor. of secs. 16, 17, 20 and 21, an iron post, 2 ins., diam., conforming to the record.

N. 0° 03' W., bet. secs. 16 and 17.

Portion of the Subdivision T. 37 S., R. 20 E.

Chains

Over rolling land, through heavy timber.

2.80 S. rim of Arch Canyon, bears N. 45° W. and S. 45° E.; desc. 620 ft. over steep NE. slope and ledges facing NE.

23.90 Wash in bottom of Arch Canyon, 30 lks. wide, 4 ft. deep, drains S. 45° E.; asc. 290 ft. over broken SW. slope.

40.00 Point for the 1/4 sec. cor. of secs. 16 and 17.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 8 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T37S R20E

1/4
S17 | S16
1957

Asc. 720 ft. over broken SW. slope.

80.00 Point for the cor. of secs. 8, 9, 16 and 17.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., on solid rock, over a cross (X); and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T37S R20E

S 8 | S 9
S17 | S16
1957

Land, rolling and broken.
Soil, sand and exposed sandstone.
Timber, heavy growth of pinion and juniper on upper benches.

From the true point for the cor. of secs. 9, 10, 15 and 16.

N. 89° 46' W., bet. secs. 9 and 16.

Over broken land; desc. 120 ft. over W. slope.

2.80 Wash, drains S.; asc. 200 ft. over E. slope and ledges facing E.

6.80 Rim, bears N. 10° E. and S. 10° W.; thence over rolling land.

6.95 Point selected for the witness cor. of secs. 9, 10, 15 and 16.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T37S R20E

S 9 | S10 W
S16 | S15 C
1957

Asc. 110 ft. over gentle E. slope, through heavy timber.

26.50 Top of ascent, bears N. and S.; desc. 70 ft. over gentle W. slope.

37.98 Point selected for the witness 1/4 sec. cor. of secs. 9 and 16.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 8 ins. in the ground to bedrock, and in a mound of stone, 3 1/2 ft. base to top, with brass cap mkd.

Portion of the Subdivision, T. 37 S., R. 20 E.

Chains

T37S R20E

$$\begin{array}{r} W \\ C \end{array} \frac{1}{4} \frac{S \ 9}{S16}$$

1957

- Continue over rolling land.
- 38.40 Rim, about 50 ft. high, bears S. 20° E. and N. 20° W.; desc. 60 ft. over SW. slope.
- 40.11 Point for the $\frac{1}{4}$ sec. cor. of secs. 9 and 16 falls in wash and cannot be perpetuated.
- 40.20 Wash, 30 lks. wide, 3 ft. deep, drains S. 20° E., flowing small stream of water at time of survey; asc. 105 ft. over E. slope.
- 55.10 Base of steep E. slope and ledge facing E.; asc. 125 ft.
- 57.60 Top of ledge, bears N. and S. 2 chs.; thence eastward; asc. 75 ft. over E. slope.
- 74.40 Top of ascent, bears N. and S.; desc. 20 ft. over gentle W. slope.
- 79.70 W. rim of Arch Canyon, bears N. 10° W. and S. 10° E.; desc. about 10 ft. over ledge facing SW.
- 80.22 The cor. of secs. 8, 9, 16 and 17.
- Land, rolling and broken.
Soil, sand and exposed sandstone.
Timber, heavy growth of juniper and pinion.

GENERAL DESCRIPTION

The land in this township varies from the badly broken mesa topped desert land in the south to the higher mountainous land in the north. The township is cut by numerous steep sided and box canyons. The drainage is to the southeast into Comb Wash, which drains in a southerly direction along the east boundary of the township. The soil is principally a sandy clay loam, with a considerable amount of exposed broken and eroded sandstone. There is a dense growth of juniper and pinion over most of the township, with oak, aspen and pine in the northern portion. The undergrowth is mainly sagebrush, with lesser amounts of black brush, bitter brush, mountain rush, silverleaf, cacti, grass and weeds. There is also wild apple, service berry and scrub oak in the northern portion. State Highway No. 95, from Blanding to Hite, bears generally east and west over the southern portion of the township. A considerable amount of prospecting for fissionable minerals has been, and to some extent is still being carried on in the area.

CERTIFICATE OF CADASTRAL ENGINEER

I, Craig P. Sylvester, HEREBY CERTIFY upon honor that in pursuance of special instructions bearing date of the 2nd day of April, 1957

I have surveyed a portion of the subdivision of T. 37 S., R. 20 E.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me and under my direction; and the said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

November 1, 1957

Salt Lake City, Utah

Craig P. Sylvester

Craig P. Sylvester
Cartographic Survey Aid

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., 1957

The foregoing field notes of the survey of _____

executed by _____

having been critically examined and found correct, are hereby approved.

Cadastral Engineering Staff Officer

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____, is a true copy of the original field notes.

Cadastral Engineering Staff Officer

CERTIFICATE OF CADASTRAL ENGINEER

I, Boyd S. Owens, HEREBY CERTIFY upon honor the
pursuance of special instructions bearing date of the 2nd day of April,

I have surveyed a portion of the subdivision of T. 37 S., R. 20 E.

of the Salt Lake Meridian, in the State of Utah, which are
represented in the foregoing field notes as having been executed by me and under my direction; and that
said survey has been made in strict conformity with said instructions, the Manual of Instructions for the
Survey of the Public Lands of the United States, and in the specific manner described in the foregoing
field notes.

November 1, 1957

Salt Lake City, Utah

Boyd S. Owens

Boyd S. Owens
Cartographic Survey Aid

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., 19

The foregoing field notes of the survey of

executed by

having been critically examined and found correct, are hereby approved.

Cadastral Engineering Staff Officer.

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in

, is a true copy of the original field notes.

Cadastral Engineering Staff Officer.

DEPT. OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
MAY 1952
103

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES

Dependent Resurvey

of

Portion of East Boundary, and survey of

Subdivisions

of

Township 37 South, Range 21 East

Of the Salt Lake Meridian,

the State of Utah

EXECUTED BY

Robert C. Yundt

Cadastral Engineer

der special instructions dated May 26, 1947, which provided

the surveys included under Group No. 358, approved June 9, 1947

and assignment instructions dated June 11, 1951

Survey commenced June 6, 1951

Survey completed August 21, 1951

INDEX DIAGRAM

Township 37 South, *Range* 21 East

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200

Township 37 South, Range 21 East

Chains

The original survey of the south and west boundaries of Township 37 South, Range 21 East of the Salt Lake Meridian was made by Nelson and Terry in 1919. The north boundary was surveyed by Moore and Yundt in 1929. The east boundary was originally surveyed by A. P. Hanson in 1907 and dependently resurveyed as the west boundary of Range 22 East by R. C. Yundt in 1947 with additional corners being established for Range 21 East. During the present subdivisional survey an error was discovered in the length of the south half mile between sections 31 and 36 as recorded in 1947 resurvey. With this change in distance the corners established by Hanson will function for both ranges, with the exception of the $\frac{1}{4}$ section corner of sections 13 and 18. These field notes, therefore, contain the dependent resurvey of the south four miles of this boundary, eliminating the corners established in 1947 for Range 21 East, and an original survey of the subdivision.

The survey was made with Buff and Buff solar transit number 26694. the property of the Bureau of Land Management, and constructed in accordance with their standard specifications. The instrument was in good condition, and prior to the beginning of the field work, it was tested and found free from error. Since the directions of the lines of the survey were determined by the use of the solar attachment, the indicated meridians obtained by its use were compared with the true meridian established by Polaris observations, and found to be in satisfactory agreement. The instrument was maintained in good adjustment during the survey, and the continued accuracy of the solar attachment was verified by frequent tests on the true meridian.

The measurements were made with Chicago steel ribbon tapes eight chains in length. These tapes are graduated at every link for the first chain, and thereafter at intervals of ten links. They were tested by comparison with a Lufkin standard steel tape, one chain in length, and found to be correct. The measurements were made on the slope, the vertical angle of each interval determined by the use of clinometers, and the slope distances properly reduced to horizontal equivalents, which are used in these field notes.

All corner positions, unless otherwise indicated, were monumented with the regulation iron posts. These posts are made of galvanized iron pipe, $2\frac{1}{2}$ inches in diameter and 30 inches long. A brass cap is riveted to the upper end and the lower end is split for about four inches, and the halves formed by the split are spread and bent upwards, forming flanges or foot plates.

The geographic position of the south east corner of the township, determined from the data accompanying the special instructions, is as follows: Latitude $37^{\circ}31'10''$ N., and longitude $109^{\circ}32'52''$ W. The value for latitude was verified by meridian solar observations made on line during the survey.

The mean magnetic declination was found to be 15° E.

Dependent Resurvey of the East Boundary of T. 37 S., R. 21 E.

Reestablishment of the Surveys Executed by A. P. Hanson in 1907 and R. C. Yundt in 1947.

Beginning at the remonumented original corner of Townships 37 and 38 South, Ranges 21 and 22 East, marked by an iron post 3 ins. in diameter, conforming to the record of the 1947 resurvey:

Thence:

N. $0^{\circ}24'$ E., between sections 31 and 36.

Over mountainous land, through scattering timber and a medium dense

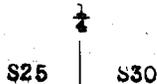
Dependent Resurvey of the East Boundary of T. 37 S., R. 21 E.

Chains	<p>undergrowth, descend 90 ft. along a NE. slope to the stream.</p> <p>Unimproved road, bears E. and W., blinding, then to Black Mesa.</p> <p>Rocky draw, drains SE., ascend along a SE. slope.</p> <p>Spur, projects S. 60° E., descend 220 ft. along a broken NE. slope.</p> <p>Cottonwood Wash, dry, drains SE., ascend along the bottom of the wash.</p> <p>Recross Wash, drains SW., ascend along a SE. slope.</p> <p>The remonumented original $\frac{1}{4}$ section corner, marked by an iron post 1 in. in diameter, conforming to the record of the 1947 resurvey, and marked for section 36 only. As this point functions for both sections I remark the post as follows:</p>										
0.30											
5.50											
16.30											
24.60											
31.10											
39.98	<p style="text-align: center;"> <table border="1" style="margin: auto;"> <tr> <td style="padding: 5px;">S36</td> <td style="padding: 5px;">S38</td> </tr> <tr> <td colspan="2" style="text-align: center; padding: 5px;">1951</td> </tr> </table> </p>	S36	S38	1951							
S36	S38										
1951											
	<p>Thence</p> <p>N. 0°25' E. beginning new measurement.</p>										
0.63	<p>The $\frac{1}{4}$ section corner for section 36 established during the 1947 resurvey, marked by an iron post, 1 in. in diameter, conforming to the record. I destroy this monument.</p>										
	<p>Ascend along a SW. slope.</p>										
3.10	<p>Spur, projects E., descend along a NE. slope.</p>										
5.70	<p>Recross Cottonwood Wash, drains SE., ascend 385 ft. along a SW. slope.</p>										
28.40	<p>Spur, projects W., descend 30 ft. along a NW. slope.</p>										
39.86	<p>The remonumented original section corner, marked by an iron post, 2 ins. in diameter, conforming to the record of the 1947 resurvey, and marked for sections 30 and 31 only. As this point will now function for sections 25 and 36 also, I remark it as follows:</p>										
	<p style="text-align: center;"> <table border="1" style="margin: auto;"> <tr> <td colspan="2" style="padding: 5px;">T578</td> </tr> <tr> <td style="padding: 5px;">R21E</td> <td style="padding: 5px;">R22E</td> </tr> <tr> <td style="padding: 5px;">S26</td> <td style="padding: 5px;">S30</td> </tr> <tr> <td style="padding: 5px;">S36</td> <td style="padding: 5px;">S31</td> </tr> <tr> <td colspan="2" style="text-align: center; padding: 5px;">1951</td> </tr> </table> </p>	T578		R21E	R22E	S26	S30	S36	S31	1951	
T578											
R21E	R22E										
S26	S30										
S36	S31										
1951											
	<p>Land, broken hills.</p> <p>Soil, sandy to gravelly clay loam.</p> <p>Timber, juniper and pines.</p> <p>Undergrowth, sagebrush, shadescale, bitter brush, and weeds.</p>										
	<p>N. 0°11' E. between sections 25 and 30.</p>										
	<p>Over mountainous land, through scattering timber and a medium dense undergrowth, descend along a NW. slope.</p>										
0.77	<p>The corner of sections 25 and 36 established in the 1947 resurvey, and marked by an iron post, 2 ins. in diameter, conforming to the record. I destroy the monument.</p>										

Dependent Resurvey of the East Boundary of T. 37 S., R. 21 E.

Chains

- 4.50 Small draw, drains W.
- 14.50 Main draw, drains W. ascend along a SW. slope.
- 40.03 The remonumented original $\frac{1}{4}$ section corner, marked by an iron post 1 in. in diameter, conforming to the record of the 1947 resurvey, and now marked for section 30 only. Since this point will now function for section 25 also, I remark it as follows:



1951

from which,

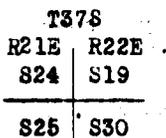
A juniper, 16 ins. in diameter, marked $\frac{1}{4}$ S30BT, bears N. $84^{\circ}30'$ E., 36 links distant.

A juniper, 16 ins. in diameter, marked $\frac{1}{4}$ S25BT, bears S. $20^{\circ}15'$ W., 121 links distant.

Thence:

North, beginning new measurement.

- 0.74 The $\frac{1}{4}$ section corner of section 25 established during the 1947 resurvey, marked by an iron post 1 in. in diameter, conforming to the record. I destroy this monument.
- 4.80 Draw, drains SW. from N.
- 6.80 Leave draw, drains S. from NE., ascend 200 ft. over a S. slope.
- 9.70 Trail, bears NW. and SE.
- 10.00 Sandstone ledge about 10 ft. high, bears E. about 5 chains and thence SE., and W. about 3 chains and thence NW., continue over rolling mesa top.
- 40.06 The remonumented original section corner, marked by an iron post 2 ins. in diameter, conforming to the record of the 1947 resurvey, and now marked for sections 19 and 30 only. Since this point will now function for sections 24 and 25 also I remark it as follows



1951

from which,

A juniper, 10 ins. in diameter, marked T37SR22ES19BT, bears N. $89^{\circ}45'$ E., 36 links distant.

A juniper, 8 ins. in diameter, marked T37SR22ES30BT, bears S. $60^{\circ}45'$ E., 37 links distant.

A juniper, 8 ins. in diameter, marked T37SR21ES25BT, bears S. $80^{\circ}45'$ W., 94 links distant.

A juniper, 8 ins. in diameter, marked T37SR21ES24BT, bears N. $39^{\circ}15'$ W., 41 links distant.

Land, broken slopes in the south and rolling mesa top in the north. Soil, shallow sandy to rocky clay loam.

Dependent Resurvey of the East Boundary of T. 37 S., R. 21 E.

Chains

Timber, scrub pinon, and juniper.
Undergrowth, sagebrush, shadscale, and black brush.

N. 0°07' E. between sections 19 and 24.

Over rolling mesa top, through scattering timber and a medium dense undergrowth.

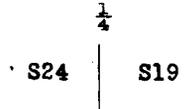
0.68 The corner of sections 24 and 25 established during the 1947 resurvey and marked by an iron post 2 ins. in diameter, conforming to the record. I destroy this monument and the bearing tree.

3.45 Unimproved road, bears NE. and SW.

23.40 Small wash, drains SW.

32.80 Edge of mesa top bears SW. and N., continue along edge.

40.10 The remonumented original $\frac{1}{4}$ section corner, marked by an iron post 1 in. in diameter, conforming to the record of the 1947 resurvey, and marked for section 19 only. Since this point will now function for section 24 also I remark it as follows:



1951 from which,

A juniper, 5 ins. in diameter, marked $\frac{1}{4}$ S19BT, bears N. 82°45' E., 8 links distant.

A juniper, 7 ins. in diameter, marked $\frac{1}{4}$ S24BT, bears N. 89°30' W., 27 links distant.

Thence:

N. 0°15' W., beginning new measurement.

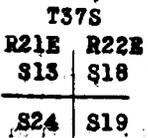
0.58 The $\frac{1}{4}$ section corner of section 24 established during the 1947 resurvey, and marked by an iron post 1 in. in diameter, conforming to the record. I destroy this monument.

7.20 Rim of mesa and canyon bears NE. and SW., descend 105 ft. along a NW. slope.

14.40 Draw in canyon, drains S. 80° W., ascend 200 ft. over a S. slope.

26.40 Rim of mesa and canyon bears NW. and SE., continue over rolling top.

39.85 The remonumented original section corner, marked by an iron post 2 ins. in diameter, conforming to the record of the 1947 resurvey, and marked for sections 18 and 19 only. Since this point will now function for sections 13 and 24 also, I remark it as follows:



1951 from which,

A pinon, 6 ins. in diameter, marked T37SR22ES18BT, bears N. 81°30' E., 57 links distant.

Dependent Resurvey of the East Boundary of T. 37 S., R. 21 E.

Chains

A pinon, 6 ins. in diameter, marked T37SR22ES19BT, bears S. 55°45' E., 24 links distant. (Tree fallen)

A pinon, 12 ins. in diameter, marked T37SR21ES24BT, bears S. 78°45' W., 26 links distant.

A juniper, 12 ins. in diameter, marked T37SR21ES13BT, bears N. 66°30' W., 27 links distant.

Land, rolling and broken slopes.

Soil, sandy to rocky clay loam.

Timber, juniper and pinon.

Undergrowth, sagebrush, shadscale, black brush, and weeds.

N. 0°21' E. between sections 13 and 18.

Over rolling mesa top, through scattering timber and a medium dense undergrowth.

0.75 The corner of sections 13 and 24 established during the 1947 resurvey and marked by an iron post 2 ins. in diameter, conforming to the record. I destroy this monument and its witnesses.

17.20 Shallow draw, drains S. 30° W.

40.07 The remonumented original $\frac{1}{4}$ section corner, marked by an iron post 1 in. in diameter, with brass cap marked:

$\frac{1}{4}$ S18

1947

from which

A juniper, 6 ins. in diameter, marked $\frac{1}{4}$ S18BT, bears S. 14°00' E., 34 links distant.

Thence:

N. 0°32' E., beginning new measurement.

0.175 At the $\frac{1}{4}$ section corner of section 13 established at midpoint on the east boundary of that section:

Set an iron post, 3 ft. long and 1 in. in diameter, 20 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:

$\frac{1}{4}$ S13

1951

from which,

A juniper, 10 ins. in diameter, marked $\frac{1}{4}$ S13BT, bears N. 72°15' W. 61 links distant.

0.55 The $\frac{1}{4}$ section corner of section 13 established during the 1947 resurvey, and marked by an iron post 1 in. in diameter, conforming to the record. I destroy this monument.

24.20 Begin descent along a NW. slope.

35.60 Shallow draw, drains S. 30° W., ascend 55 ft. along a SE. slope.

40.42 The remonumented original corner of sections 7, 12, 13, and 18,

Dependent Resurvey of the East Boundary of T. 37 S., R. 21 E.

Chains

marked by an iron post 2 ins. in diameter, conforming to the record of the 1947 resurvey.

Land, rolling mesa top.
Soil, sandy to gravelly clay loam.
Timber, juniper and pinon.
Undergrowth, sagebrush, shadscale, weeds, and grass.

Survey of the Subdivision of Township 37 South, Range 21 East.

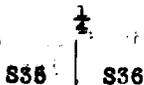
Beginning at the corner of sections 1, 2, 35, and 36 on the south boundary of the township, marked by an iron post 2 ins. in diameter, conforming to the record:

Thence:

N. 0°10' E. between sections 35 and 36.
Parallel to the mean course of the east boundary.
Over rolling bench land, through scattering timber and a scant undergrowth, ascend 35 ft. along a SE. slope.

- 3.80 Low spur, projects SE., descend 45 ft. along a NE. slope.
- 24.35 Draw, drains S. 60° E., ascend over rolling land.
- 32.00 Low spur, projects SE. about 15 chains to end, continue over rolling mesa top.
- 40.00 At the $\frac{1}{4}$ section corner of sections 35 and 36:

Set a regulation iron post 24 ins. in the ground to solid rock, and in a small mound of stone, with brass cap marked:



1951

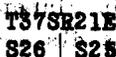
from which,

A juniper, 10 ins. in diameter, marked $\frac{1}{4}$ S36BT, bears N. 55°45' E., 154 links distant.

A juniper, 3 ins. in diameter, marked BT only, bears N. 83° 15' W., 83 links distant.

- 42.00 Shallow draw, drains SE. about 2 chains and thence S. 10° E.
- 69.00 Low spur, projects S. 30° E., descend along a gentle NE. slope.
- 80.00 At the corner of sections 25, 26, 35, and 36:

Set a regulation iron post 27 ins. in the ground, with brass cap marked:



1951

from which,

A juniper, 3 ins. in diameter, marked BT only, bears N. 83°00' E., 24 links distant.

A juniper, 3 ins. in diameter, marked BT only, bears S. 57°00' E., 84 links distant.

Subdivision of Township 37 South, Range 21 East

Chains

A juniper, 3 ins. in diameter, marked BT only, bears S. 40°00' W., 100 links distant.

Land, rolling mesa top.
Soil, sandy to gravelly clay loam.
Timber, juniper and pinon.
Undergrowth, sagebrush, bitter brush, weeds, and grass.

Beginning at the remonumented original corner of sections 25, 30, 31, and 36 on the east boundary of the township:

Thence:

N. 89°58' W. between sections 25 and 36.

Over mountainous land, through scattering timber and a medium dense undergrowth, descend 175 ft. along a broken SW. slope over ledges. Wash, drains SW.

18.50
24.20 Cottonwood Wash, channel about 150 links wide, drains SE., ascend 260 ft. along a broken NE. slope over ledges.

40.09 At the $\frac{1}{4}$ section corner of sections 25 and 36:

Set a regulation iron post in a large mound of stone, over a cross (X) cut into solid rock, with brass cap marked:

S25

$\frac{1}{4}$ ———

S36

1951

from which,

A juniper, 6 ins. in diameter, marked $\frac{1}{4}$ S36BT, bears S. 45°30' E., 60 links distant.

A juniper, 3 ins. in diameter, marked BT only, bears N. 28°30' W., 71 links distant.

Ascend 125 ft. along a broken SE. slope over ledges.

49.00 Low spur, projects SE. on the eastern edge of Black Mesa, edge bears SE. and NW., descend along a W. slope.

51.30 Shallow draw, drains SE., ascend 65 ft. along a NE. slope.

65.20 Low spur, projects SE., descend 30 ft. along a SW. slope.

72.50 Shallow draw, drains SE., ascend 25 ft. along a rolling NE. slope.

80.18 The corner of sections 25, 26, 35, and 36.

Land, rough and broken mountain slopes in the east and a rolling mesa top in the west.

Soil, sandy to rocky clay loam.
Timber, juniper and pinon.
Undergrowth, sagebrush, bitter brush, weeds, and grass.

N. 0°10' E. between sections 25 and 26.

Over rolling mesa top, through scattering timber and a medium dense undergrowth, descend 45 ft. along a NE. slope.

16.25 North rim of Black Mesa, bears NW. and SE., descend 365 ft. along a broken NE. slope over ledges.

Subdivision of Township 37 South, Range 21 East

Chains		S26						
30.50	Draw, drains N. 60° E., ascend 75 ft. along a NE. slope.							
37.30	Spur, projects N. 60° E., descend 45 ft. along a NW. slope.							
40.00	At the $\frac{1}{4}$ section corner of sections 25 and 26:							
	Set a regulation iron post 28 ins. in the ground, with brass cap marked:							
	<table border="1"> <tr> <td></td> <td>4</td> <td></td> </tr> <tr> <td>S26</td> <td> </td> <td>S25</td> </tr> </table>		4		S26		S25	
	4							
S26		S25						
	1951 from which,							
	A juniper, 5 ins. in diameter, marked $\frac{1}{4}$ S25BT, bears N. 57°15' E., 79 links distant.							
	A juniper, 5 ins. in diameter, marked $\frac{1}{4}$ S26BT, bears N. 65°30' W., 134 links distant.							
	Descend 75 ft. along a NE. slope.							
53.50	Draw, drains S. 80° E., ascend 65 ft. along a SE. slope.							
61.30	Spur, projects S. 80° E., descend 125 ft. along a NE. slope.							
80.00	At the corner of sections 23, 24, 25, and 26:							
	Set a regulation iron post 18 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:							
	<table border="1"> <tr> <td colspan="2">T37SR21E</td> </tr> <tr> <td>S23</td> <td>S24</td> </tr> <tr> <td>S26</td> <td>S25</td> </tr> </table>	T37SR21E		S23	S24	S26	S25	
T37SR21E								
S23	S24							
S26	S25							
	1951 from which,							
	A juniper, 3 ins. in diameter, marked BT only, bears S. 33°45' E., 101 links distant.							
	A juniper, 3 ins. in diameter, marked BT only, bears S. 21°15' W., 41 links distant.							
	A pinon, 5 ins. in diameter, marked T37SR21E23BT, bears N. 41°00' W., 103 links distant.							
	Land, rolling mesa top in the south, and broken slopes in the north. Soil, sandy to gravelly clay loam. Timber, juniper and pinon. Undergrowth, sagebrush, shadeleaf, bitter brush, weeds, and grass.							
	Beginning at the remonumented original corner of sections 19, 24, 25, and 30 on the east boundary of the township:							
	Thence:							
	S. 89°55' W. between sections 24 and 25.							
	Over mountainous land, through scattering timber and a medium dense undergrowth; over rolling mesa top.							
2.10	Old road, bears N. 20° E. and S. 20° W.							
19.00	Rim of mesa bears N. 20° E. and SE., descend 375 ft. along a broken SW. slope over ledges.							

Subdivision of Township 37 South, Range 21 East

Chains	
29.55	Trail, bears N. and S.
40.03	At the $\frac{1}{4}$ section corner of sections 24 and 25:
	Set a regulation iron post 6 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:
	<div style="text-align: center;"> <p>S24</p> <p>$\frac{1}{4}$ ———</p> <p>S25</p> <p>1951.</p> </div>
	Deposit broken glass at the base of the post.
	Descend 335 ft. along a broken SW. slope over ledges.
62.00	Cottonwood Wash, 120 links wide, drains south about 10 chains thence SE., ascend 245 ft. along a NE. slope.
80.06	The corner of sections 23, 24, 25, and 26.
	<p>Land, rolling mesa in the east, and broken slopes in the west.</p> <p>Soil, sandy to gravelly clay loam.</p> <p>Timber, juniper and pinon.</p> <p>Undergrowth, sagebrush, greasewood, bitter brush, weeds, and grass.</p> <p>-----</p>
	N. 0°10' E. between sections 23 and 24.
	Over mountainous land, through scattering timber and a medium dense undergrowth; descend 125 ft. along a NE. slope.
19.25	Cottonwood Wash, 300 links wide, drains SE., ascend 75 ft. along a SW. slope.
26.80	Low spur, projects S. 70° E., descend 50 ft. along a NE. slope.
29.10	Draw, drains S. 60° E., continue along a west slope.
35.20	Recross draw, drains SW., ascend along a SE. slope.
40.00	At the $\frac{1}{4}$ section corner of sections 23 and 24:
	Set a regulation iron post 16 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:
	<div style="text-align: center;"> <p>$\frac{1}{4}$</p> <p>S23 S24</p> <p>1951</p> </div> <p style="text-align: right;">from which,</p>
	A juniper, 5 ins. in diameter, marked $\frac{1}{4}$ S24BT, bears N. 87°30' E., 119 links distant.
	A pinon, 6 ins. in diameter, marked $\frac{1}{4}$ S23BT, bears N. 87°30' W., 122 links distant.
	Ascend 90 ft. along a SE. slope.
73.40	Spur, projects S. 80° W., continue ascent along the west side of the spur.
80.00	At the corner of sections 13, 14, 23, and 24 and on a spur projecting SE:

Subdivision of Township 37 South, Range 21 East

Chains

021200

Set a regulation iron post 26 ins. in the ground, with brass cap marked:

T37SR21E

S14 | S13

S23 | S24

1951

from which,

A juniper, 3 ins. in diameter, marked BT only, bears S. 47°30' E., 32 links distant.

A juniper, 12 ins. in diameter, marked T37SR21ES23BT, bears S. 33°00' W., 171 links distant.

Land, rolling mountain slopes.
Soil, sandy to gravelly clay loam.
Timber, juniper and pinon.
Undergrowth, sagebrush, shadscale, weeds and grass.

Beginning at the remonumented original corner of sections 13, 18, 19, and 24 on the east boundary of the township:

Thence:

N. 89°58' W. between sections 13 and 24.

Over rolling top, through scattering timber and a medium dense undergrowth; descend 60 ft. along a SW. slope.

5.40 Draw, drains S. 10° W., ascend along a SE. slope.

14.30 Spur, projects S. 10° E., descend along a SW. slope.

22.20 Rim of mesa bears NW. and SE., descend 185 ft. along a broken SW. slope.

39.87 At the 1/4 section corner of sections 13 and 24:

Set a regulation iron post 22 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:

S13

S24

1951

from which,

A juniper, 3 ins. in diameter, marked BT only, bears North, 174 links distant.

43.00 Draw, drains SW., continue along a general S. slope.

64.20 Draw, drains S., ascend along a SE. slope.

79.74 The corner of sections 13, 14, 23, and 24:

Land, rolling top in the east and broken slopes in the west.
Soil, sandy to gravelly clay loam.
Timber, juniper and pinon.
Undergrowth, sagebrush, weeds, and grass.

Subdivision of Township 37 South, Range 21 East

N. 0°10' E. between sections 13 and 14.

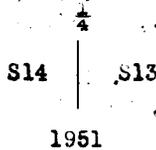
Over mountainous land, through scattering timber and a medium dense undergrowth, ascend along a broken SE. slope.

25.00 Low spur, projects S. 70° E., descend along a NE. slope.

36.00 Shallow draw, drains SE., ascend along a SE. slope.

40.00 At the $\frac{1}{2}$ section corner of sections 13 and 14:

Set a regulation iron post 26 ins. in the ground, with brass cap marked:



Raise a mound of stone, 2 ft. base and $1\frac{1}{2}$ ft. high west of the post.

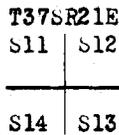
Ascend along a SE. slope.

48.30 Low spur, projects NE., descend along a NE. slope.

62.40 Draw, drains N. 70° E., ascend along a NE. slope.

80.00 At the corner of sections 11, 12, 13, and 14:

Set a regulation iron post 25 ins. in the ground to solid rock, and in a small mound of stone, with brass cap marked:



1951

from which,

A juniper, 4 ins. in diameter, marked BT only, bears N. 34°15' E., 74 links distant.

Land, rolling slopes.

Soil, sandy to gravelly clay loam.

Undergrowth, sagebrush, weeds, and grass.

Timber, juniper and pinon.

Beginning at the remonumented original corner of sections 7, 12, 13, and 18 on the east boundary of the township, marked by an iron post, 2 ins. in diameter, conforming to the record:

Thence:

S. 89°45' W. between sections 12 and 13.

Over rolling top, through scattering timber and a medium dense undergrowth.

22.60 Shallow draw, drains S., ascend along a SE. slope.

25.70 Spur, projects S., descend along a SW. slope.

28.50 Rim of mesa, bears N. and S., descend 90 ft. along a broken SW. slope over ledges.

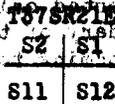
Subdivision of Township 37th South, Range 21st East

Chains	
40.02	<p>At the $\frac{1}{4}$ section corner of sections 12 and 13:</p> <p>Set a regulation iron post 22 ins. in the ground to solid rock, and in a small mound of stone, with brass cap marked:</p> <p style="text-align: center;">S12</p> <p style="text-align: center;">—</p> <p style="text-align: center;">S13</p> <p style="text-align: center;">1951</p> <p>from which,</p> <p>A juniper, 9 ins. in diameter, marked $\frac{1}{4}$S12BT, bears N. 56°00' E., 53 links distant.</p> <p>A pinon, 8 ins. in diameter, marked $\frac{1}{4}$S13BT, bears S. 9°00' W., 200 links distant.</p> <p>Descend 275 ft. along a broken SW. slope.</p>
56.00	<p>Draw, drains SE. about 3 chains and thence S., ascend along a general E. slope.</p>
80.04	<p>The corner of sections 11, 12, 13, and 14.</p> <p>Land, rolling top in the east and broken slopes in the west. Soil, sandy to rocky clay loam. Timber, juniper and pinon. Undergrowth, sagebrush, shadscale, weeds, and grass.</p> <p style="text-align: center;">-----</p> <p>N. 0°10' E. between sections 11 and 12.</p>
8.40	<p>Over broken land, through scattering timber and a medium dense undergrowth, ascend along a SE. slope.</p>
26.30	<p>Spur, projects E., descend along a broken NE. slope.</p>
26.30	<p>Draw, drains SE., ascend 345 ft. along a broken SW. slope.</p>
40.00	<p>At the $\frac{1}{4}$ section corner of sections 11 and 12:</p> <p>Set a regulation iron post, 5 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:</p> <p style="text-align: center;">S11</p> <p style="text-align: center;">—</p> <p style="text-align: center;">S12</p> <p style="text-align: center;">1951</p> <p>from which,</p> <p>A pinon, 8 ins. in diameter, marked $\frac{1}{4}$S12BT, bears N. 63°30' E., 115 links distant.</p> <p>Ascend 235 ft. along a broken SW. slope over ledges.</p>
80.00	<p>The corner of sections 1, 2, 11, and 12 falls upon steeply sloping sandstone ledge, where the monument cannot be perpetuated. Note a witness corner is established at a point 0.20 chains N. 0° 12' E. of the true point.</p> <p>Land, rough and broken slopes. Soil, shallow gravelly to rocky clay loam. Timber, juniper and pinon. Undergrowth, sagebrush, shadscale, weeds, and grass.</p>

Subdivision of Township 37 South, Range 21 East

Chains

and



WC

1951 from which,

A juniper, 3 ins. in diameter, marked XBT, bears N. 43°00' E., 87 links distant.

A pinon, 4 ins. in diameter, marked XBT, bears S. 64°30' E., 182 links distant.

Continue along the west break of a spur.

40.00 At the 1/4 section corner of sections 1 and 2,

Set a regulation iron post 6 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:



1951 from which,

A pinon, 10 ins. in diameter, marked 1/4 S1BT, bears N. 68°00' E., 36 links distant.

A pinon, 8 ins. in diameter, marked 1/4 S2BT, bears S. 43°00' W., 47 links distant.

Descend 130 ft. along a broken NW. slope over ledges.

55.80 Draw, drains SW., ascend along a broken SE. slope on the west side of the draw.

78.50 Recross draw, drains SE., ascend 36 ft. along a SW. slope.

80.05 The corner of sections 1, 2, 35, and 36 on the north boundary of the township, marked by an iron post, 2 ins. in diameter, conforming to the record.

Land, rough and broken mountain slopes. Soil, shallow, sandy to rocky clay loam. Timber, juniper and pinon. Undergrowth, sagebrush, shadscale, weeds, and grass.

Beginning at the corner of sections 2, 3, 34, and 35 on the south boundary of the township, marked by an iron post 2 ins. in diameter, conforming to the record:-

Thence:

N. 0°10' E. between sections 34 and 35.

Over mountainous land, through scattering timber and a medium dense undergrowth; over rolling top of mesa.

31.20 Small wash, drains E.

40.00 At the 1/4 section corner of sections 34 and 35:

Set a regulation iron post 27 ins. in the ground, with brass cap marked:

Subdivision of Township 37 South, Range 21 East

Chains

S34 | S35

1951 from which,

A juniper, 10 ins. in diameter, marked $\frac{1}{4}$ S36BT, bears N. 54°45' E., 106 links distant.

A juniper, 10 ins. in diameter, marked $\frac{1}{4}$ S34BT, bears N. 59°45' W., 104 links distant.

50.00 Small wash, drains SE.

65.00 Small wash, drains E.

72.40 Low spur, projects E.

79.00 Small wash, drains E.

80.00 At the corner of sections 26, 27, 34, and 35.

Set a regulation iron post 28 ins. in the ground, with brass cap marked:

T37SR21E	
S27	S26
—	
S34	S35

1951 from which,

A juniper, 8 ins. in diameter, marked T37SR21ES26BT, bears N. 47°00' E., 355 links distant.

A juniper, 6 ins. in diameter, marked T37SR21ES27BT, bears N. 10°45' W., 311 links distant.

Land, rolling mesa top.
Soil, sandy to gravelly clay loam.
Timber, juniper and pinon.
Undergrowth, sagebrush, shadscale, weeds, and grass.

Beginning at the corner of sections 25, 26, 35, and 36:

Thence:

S. 89°57' W., between sections 26 and 35.

Over rolling mesa top, through scattering timber and a medium dense undergrowth, ascend along a NE. slope.

9.50 Low spur, projects NE., descend along a NW. slope.

21.00 Small draw, drains NE., ascend along a NE. slope.

40.00 At the $\frac{1}{4}$ section corner of sections 26 and 35:

Set a regulation iron post 12 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:

S26

$\frac{1}{4}$

S35

1911

from which,

Subdivision of Township 37 South, Range 21 East

Chains

A juniper, 6 ins. in diameter, marked $\frac{1}{4}$ S26BT, bears N. 23°00' E., 144 links distant.

Ascend along a NE. slope.

46.20 Low spur, projects SE., descend along a SW. slope.

49.60 Shallow draw, drains SE., ascend along a NE. slope.

64.70 Low spur, projects S. about 5 chains to end, descend along a SW. slope.

77.60 Draw, drains SE., ascend along a gentle E. slope.

80.00 The corner of sections 26, 27, 34, and 35.

Land, rolling mesa top.
Soil, sandy to gravelly clay loam.
Timber, juniper and pinon.
Undergrowth, sagebrush, shadscale, bitter brush, weeds, and grass.

N. 0°10' E. between sections 26 and 27.

Over rolling land, through scattering timber and a medium dense undergrowth.

1.70 Small draw, drains SE., ascend along a SE. slope.

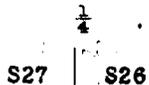
18.30 Spur, projects SE., descend along a NE. slope.

22.70 Draw, drains E., continue along an E. slope.

25.10 Draw, drains E., ascend along a SW. slope.

40.00 At the section corner of sections 26 and 27:

Set a regulation iron post, 24 ins. in the ground, and in a small mound of stone, with brass cap marked:



1951 from which,

A juniper, 10 ins. in diameter, marked $\frac{1}{4}$ S26BT, bears N. 80°30' E., 66 links distant.

A pinon, 5 ins. in diameter, marked $\frac{1}{4}$ S27BT, bears N. 51°00' W., 112 links distant.

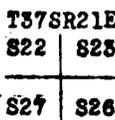
44.90 Draw, drains S. 70° E., ascend along a SW. slope.

62.35 Spur, projects E., descend along a N. slope.

68.85 Rim of mesa bears N. 56° E. and N. 80° W., descend abruptly over a N. slope.

80.00 At the corner of sections 22, 23, 26, and 27:

Set a regulation iron post 25 ins. in the ground, with brass cap marked:



1951 from which,

Subdivision of Township 37 South, Range 21 East.

Chains

A juniper, 3 ins. in diameter, marked BT, only, bears N. 53°45' E., 84 links distant.

Land, rolling mesa top.
Soil, sandy to gravelly clay loam.
Timber, juniper and pinon.
Undergrowth, sagebrush, bitter brush, weeds, and grass.

Beginning at the corner of sections 23, 24, 25, and 26:

Thence:

S. 89°58' W. between sections 23 and 26:

Over mountainous land; through scattering timber and a medium dense undergrowth, ascend along a broken NE. slope over small draws and spurs putting NE.

40.02 At the 1/4 section corner of sections 23 and 26.

Set a regulation iron post 22 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:

S23

1/4

S26

1951

from which,

A juniper, 5 ins. in diameter, marked 1/4S23BT, bears N. 10°30' E., 156 links distant.

A juniper, 8 ins. in diameter, marked 1/4S26BT, bears S. 70°15' E., 64 links distant.

Ascend along a broken NE. slope.

72.80 Spur, projects N. 20° E., descend along a NW. slope.

77.80 Shallow draw, drains N., ascend gentle NE. slope.

80.04 The corner of sections 22, 23, 26, and 27.

Land, rough and broken slopes.
Soil, gravelly to rocky clay loam.
Timber, juniper and pinon.
Undergrowth, sagebrush, weeds, and grass.

N. 0°10' E. between sections 22 and 23.

Over mountainous land, through scattering timber and a medium dense undergrowth, descend along a NE. slope:

10.20 Draw, drains N. 70° E., ascend along a SE. slope.

13.60 Low spur, projects NE., descend along a NW. slope.

28.10 Draw, drains E., ascend along a SE. slope.

39.60 Low spur, projects E., descend along a NW. slope.

40.00 At the 1/4 section corner of sections 22 and 23:

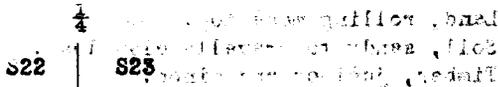
Set a regulation iron post 15 ins. in the ground to solid rock, and

Subdivision of Township 37 South, Range 21 East

Chains

arise

in a mound of stone, with brass cap marked:



1951 from which,

A juniper, 10 ins. in diameter, marked 1/4S23BT, bears S. 47°00' E., 68 links distant.

A juniper, 10 ins. in diameter, marked 1/4S22BT, bears S. 43°30' W., 46 links distant.

43.00 Draw, drains E., ascend along a SE. slope.

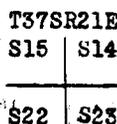
53.40 Spur, projects N. 70° E., descend over a N. slope.

65.00 Draw, drains E., ascend along a SE. slope.

72.40 Spur, projects E., descend along a NE. slope.

80.00 At the corner of sections 14, 15, 22, and 23:

Set a regulation iron post, 28 ins. in the ground, with brass cap marked:



1951 from which,

A juniper, 8 ins. in diameter, marked T37SR21ES23BT, bears S. 75°45' E., 37 1/2 links distant.

A piñon, 18 ins. in diameter, marked T37SR21ES15BT, bears N. 35°00' W., 175 links distant.

Land, broken slopes.
Soil, sandy to gravelly clay loam.
Timber, juniper and piñon.
Undergrowth, sagebrush, weeds, and grass.

Beginning at the corner of sections 11, 14, 23 and 24.

Thence:

S. 89°59' W. between sections 14 and 23.

Over rolling land, through scattering timber and a medium dense undergrowth, descend along a SW. slope.

12.00 Shallow draw, drains S. 10° W., ascend along a SE. slope.

31.00 Spur, projects S., descend along a SW. slope.

40.03 At the 1/4 section corner of sections 14 and 23:

Set a regulation iron post 29 ins. in the ground, with brass cap marked:

S14

S23

from which,

Range 15, subdivision of Township 37 South, Range 21 East

Chains

Set a juniper, 8 ins. in diameter, marked S14BT, bears N. 79°45' E., 36 links distant.

Set a pinon, 8 ins. in diameter, marked S23BT, bears S. 32°30' W., 76 links distant.

50.90 Draw, drains S., continue along a general S. slope.

70.10 Cottonwood Wash, about 4 chains wide, drains SE. from the N., ascend along a NE. slope.

80.06 The corner of sections 14, 15, 22, and 23.

Land, rolling hills.

Soil, sandy to gravelly clay loam.

Timber, juniper and pinons.

Undergrowth, sagebrush, weeds, and grass.

N. 0°10' E. between sections 14 and 15.

Over rolling land, through scattering timber and a scant undergrowth, descend along a NE. slope.

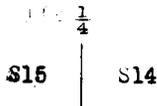
4.50 Shallow draw, drains E., ascend along a SE. slope.

22.20 Low spur, projects E., descend along a NE. slope.

28.70 Cottonwood wash, about 5 chains wide, drains S. 60° E., old road in bottom; ascend along a SW. slope.

40.00 At the 1/4 section corner of sections 14 and 15.

Set a regulation iron post 24 ins. in the ground, and in a small mound of stone, with brass cap marked:



1951 from which,

A juniper, 3 ins. in diameter, marked BT only, bears N. 30°45' E., 155 links distant.

A juniper, 3 ins. in diameter, marked BT only, bears N. 19°30' W., 135 links distant.

56.70 Spur, projects S. 80° W., descend along a NW. slope.

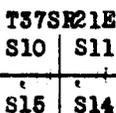
62.70 Draw, drains S. 80° W., ascend along a SW. slope.

75.00 Spur, projects W., descend along a NW. slope.

79.00 Draw, drains SW.

80.00 At the corner of sections 10, 11, 14, and 15:

Set a regulation iron post 19 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:



1952 from which,

Chains

A juniper, 3 ins. in diameter, marked BT only, bears S. 8°30' E., 10 links distant.

A pinon, 3 ins. in diameter, marked BT only, bears S. 22°30' W., 58 links distant.

A pinon, 5 ins. in diameter, marked T37SR21ES10RT, bears N. 15°30' W., 80 links distant.

Land, rolling hills.

Soil, sandy to gravelly clay loam.

Timber, juniper and pinon.

Undergrowth, sagebrush, weeds, and grass.

Beginning at the corner of sections 11, 12, 13, and 14:

Thence:

S. 89°54' W. between sections 11 and 14.

Over mountainous land, through scattering timber and a medium dense undergrowth, ascend along a steep and broken SE. slope over ledges.

24.00 Sandstone rim about 50 ft. high, bears N. and S., continue ascent along a gentle SE. slope.

33.90 Spur, projects S. 10° E., descend along a gentle SW. slope.

36.10 Sandstone rim about 50 ft. high, bears S. 20° E. and N. 20° W., descend along an abrupt SW. slope over ledges.

40.04 At the $\frac{1}{4}$ section corner of sections 11 and 14:

Set a regulation iron post 27 ins. in the ground, with brass cap marked:

S11

$\frac{1}{4}$

S14

1951

from which,

A pinon, 3 ins. in diameter, marked BT only, bears N. 5°00' E., 42 links distant.

A juniper, 14 ins. in diameter, marked $\frac{1}{4}$ S14BT, bears S. 58°30' E., 45 links distant.

Continue descent along a SW. slope.

40.30 Shallow draw, drains S. 30° W., ascend along a SE. slope.

42.20 Spur, projects S. 70° W., descend along a NW. slope.

57.60 Recross spur, projects N. 80° W., continue descent along a SW. slope.

75.00 Recross spur, projects SW., descend along a NW. slope.

78.00 Shallow draw, drains SW.

80.08 The corner of sections 10, 11, 14, and 15.

Land, rough and broken slopes.

Soil, gravelly to rocky clay loam.

Timber, juniper and pinon.

Undergrowth, sagebrush, shadeless, weeds, and grass.

Subdivision of Township 37 South, Range 21 East

Chains

N. 0°10' E. between sections 10 and 11.

Over rolling land, through scattering timber and a medium dense undergrowth.

0.40 Low spur, projects W. about 1 chain to end.

2.40 Shallow draw, drains W.

8.50 Spur, projects W.

11.50 Shallow draw, drains SW.

22.60 Spur, projects W.

40.00 At the $\frac{1}{4}$ section corner of sections 10 and 11:

Set a regulation iron post 14 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:

S10		S11

1951

from which,

A juniper, 3 ins. in diameter, marked BT only, bears N. 75°30' E., 73 links distant.

A juniper, 5 ins. in diameter, marked $\frac{1}{4}$ S10BT, bears N. 13°15' W., 117 links distant.

Descend along a NW. slope.

62.30 Draw, drains S. 70° W., ascend along a SW. slope.

76.60 Spur, projects SW., descend along a NW. slope.

80.00 At the corner of sections 2, 3, 10, and 11:

Set a regulation iron post 16 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:

T37SR21E		
S3		S2
S10		S11

S10		S11
-----	--	-----

1951

from which,

A juniper, 8 ins. in diameter, marked T37SR21ES11BT, bears S. 60°00' E., 62 links distant.

A juniper, 5 ins. in diameter, marked S10BT, bears S. 71°30' W., 106 links distant.

A juniper, 3 ins. in diameter, marked BT only, bears N. 15°15' W., 116 links distant.

Land, rolling hills.

Soil, gravelly to rocky clay loam.

Timber, juniper and pinon.

Undergrowth, sagebrush, bitter brush, weeds, and grass.

Subdivision of Township 37 South, Range 31 East

Chains	Description
	Beginning at the true point for the corner of sections 1, 2, 11, and 12:
	Thence: S. 89°54' W. between sections 2 and 11.
	Over rough and broken land, through scattering timber and a medium dense undergrowth; descend 305 ft. along a broken SW. slope over ledges.
14.60	Draw, drains S., ascend 315 ft. along a broken SE. slope over ledges
28.40	Sandstone rim about 50 ft. high, bears N. and S., continue ascent along a gentle SE. slope.
40.03	At the $\frac{1}{4}$ section corner of sections 2 and 11:
	Set a regulation iron post 15 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:
	S 2
	$\frac{1}{4}$ —————
	S11
	1951 from which,
	A pinon, 12 ins. in diameter, marked $\frac{1}{4}$ S11BT, bears S. 46°45' E., 91 links distant.
	A pinon, 8 ins. in diameter, marked $\frac{1}{4}$ S2BT, bears N. 26°30' E., 110 links distant.
	Continue ascent along a gentle SE. slope.
45.70	Spur, projects S. 20° E., descend along a gentle SW. slope.
50.50	Sandstone rim about 50 ft. high, bears N. and S., descend along an abrupt SW. slope over ledges.
62.20	Head of draw draining SW., ascend along a SE. slope.
74.70	Spur, projects SW., descend along a NW. slope.
76.50	Spur, projects NW., descend along a NW. slope.
80.06	The corner of sections 2, 3, 10, and 11.
	Land, rough and broken slopes. Soil, gravelly to rocky clay loam. Timber, juniper and pinon. Undergrowth, sagebrush, weeds, and grass.

	N. 0°20' E. between sections 2 and 3.
	Over rolling land, through scattering timber and a medium dense undergrowth, descend along a NW. slope.
20.40	Shallow draw, drains SW., ascend along a SE. slope.
27.60	Spur, projects W., descend along a NW. slope.
35.00	Draw, drains W., ascend along a SE. slope.
40.00	At the $\frac{1}{4}$ section corner of sections 2 and 3:
	Set a regulation iron post 30 ins. in the ground to solid rock, and

Subdivision of Township 37 South, Range 21 East, 1891

Chains

in a mound of stone, with brass cap marked:

S3 | S2

1951

from which,

A juniper, 4 ins. in diameter, marked $\frac{1}{4}$ S2BT, bears S. 20°30' E., 73 links distant.

A juniper, 3 ins. in diameter, marked BT only, bears N. 41°15' W., 120 links distant.

- 41.09 Low spur, projects W. about 5 chains to end.
- 44.30 Draw, drains W., ascend along a SE. slope.
- 49.30 Spur, projects W., descend along a NW. slope.
- 54.80 Draw, drains W. ascend along a S. slope.
- 80.28 On top of a spur projecting SW.; The original corner of sections 2, 3, 34, and 35 on the north boundary of the township, marked by an iron post, 2 ins. in diameter, conforming to the record.

Land, broken slopes.

Soil, shallow gravelly clay loam.

Timber, juniper and pinon.

Undergrowth, sagebrush, shadscale, weeds, and grass.

Beginning at the corner of sections 3, 4, 33, and 34 on the south boundary of the township, marked by an iron post, 2 ins. in diameter, conforming to the record:

Thence:

N. 0°09' E. between sections 33 and 34.

Over mountainous land, through scattering timber and a medium dense undergrowth, descend along a NW. slope.

- 3.00 Small draw, drains E., ascend along a SE. slope.
- 17.20 Spur, projects N. 80° E., descend along a NW. slope.
- 29.80 Rim of mesa, bears NE. and W., descend along a steep NW. slope.
- 40.00 At the $\frac{1}{4}$ section corner of sections 33 and 34:

Set a regulation iron post 24 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:

S33 | S34

1951

Deposit a sandstone rock, 4x4x4 ins., marked with a cross (X) at the base of the post.

Descend along a broken N. slope.

- 72.60 Draw, drains NW., ascend along a SW. slope.

Chains	Links								
80.00	<p>At the corner of sections 27, 28, 33, and 34:</p> <p>Set a regulation iron post 12 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:</p> <div style="text-align: center;"> <table border="1"> <tr> <td colspan="2">T57SR21E</td> </tr> <tr> <td>S28</td> <td>S27</td> </tr> <tr> <td colspan="2">— —</td> </tr> <tr> <td>S33</td> <td>S34</td> </tr> </table> <p>1951 from which,</p> <p>A juniper, 3 ins. in diameter, marked BT only, bears S. 64°00' E., 33 links distant.</p> <p>A juniper, 3 ins. in diameter, marked BT only, bears S. 75°15' W., 67 links distant.</p> <p>Land, rough and broken slopes. Soil, rocky clay loam. Timber, juniper and pinon. Undergrowth, sagebrush, weeds, and grass.</p> </div>	T57SR21E		S28	S27	— —		S33	S34
T57SR21E									
S28	S27								
— —									
S33	S34								
	<p>Beginning at the corner of sections 26, 27, 34, and 35:</p> <p>Thence:</p> <p>N. 89°57' W. between sections 27 and 34.</p> <p>Over rolling land, through scattering timber and a medium dense undergrowth, ascend along a general SE. slope.</p>								
39.97	<p>At the $\frac{1}{4}$ section corner of sections 27 and 34:</p> <p>Set a regulation iron post 27 ins. in the ground, with brass cap marked:</p> <div style="text-align: center;"> <table border="1"> <tr> <td>S27</td> <td></td> </tr> <tr> <td colspan="2">— —</td> </tr> <tr> <td>S34</td> <td></td> </tr> </table> <p>1951 from which,</p> <p>A Juniper, 6 ins. in diameter, marked $\frac{1}{4}$S34BT, bears S. 49°30' E., 83 links distant.</p> <p>A juniper, 6 ins. in diameter, marked $\frac{1}{4}$S27BT, bears N. 38°00' W., 211 links distant.</p> <p>Ascend along an E. slope.</p> </div>	S27		— —		S34			
S27									
— —									
S34									
41.80	<p>Spur, projects N. 30° E. from S. 20° E., descend along a W. slope.</p>								
42.25	<p>Sandstone rim about 15 ft. high on the west rim of the mesa, bears E. 30° E. and S., descend along an abrupt NW. slope.</p>								
54.20	<p>Draw, drains NW., ascend along a NE. slope.</p>								
71.40	<p>Spur, projects NW., descend along a SW. slope.</p>								
79.94	<p>The corner of sections 27, 28, 33, and 34.</p> <p>Land, rolling in the east and rough and broken slopes in the west. Soil, sandy to rocky clay loam. Timber, juniper and pinon. Undergrowth, sagebrush, weeds, and grass.</p>								

Subdivision of Township 37 South, Range 21 East

Chains

N. 0°09' E. between sections 27 and 28.

Over rolling land, through scattering timber and a medium dense undergrowth, ascend along a SW. slope.

3.00 Low spur, projects NW, descend along a NE. slope.

7.00 Shallow draw, drains N. 60° W., ascend along a SW. slope.

11.50 Spur, projects W., descend along a NW. slope.

23.70 Draw, drains SW., ascend along a SE. slope.

40.00 At the $\frac{1}{4}$ section corner of sections 27 and 28:

Set a regulation iron post 4 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:



1951 from which,

A juniper, 3 ins. in diameter, marked BT only, bears N. 7°00' E., 91 links distant.

A juniper, 4 ins. in diameter, marked $\frac{1}{4}$ S28BT, bears N. 22°30' W., 180 links distant.

Continue along a broken SE. slope.

79.00 Shallow draw, drains SE., ascend along a SW. slope.

80.00 At the corner of sections 21, 22, 27, and 28.

Set a regulation iron post 12 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:

T37SR21E

S21	S22
-----	-----

S28	S27
-----	-----

1951 from which,

A pinon, 4 ins. in diameter, marked BT, only, bears N. 8°15' E., 166 links distant.

A pinon, 4 ins. in diameter, marked BT, only, bears S. 35°00' E., 70 links distant.

A juniper, 3 ins. in diameter, marked BT only, bears S. 89°00' W., 75 links distant.

A pinon, 3 ins. in diameter, marked BT only, bears N. 21°00' W., 177 links distant.

Land, rolling hills.

Soil, sandy to gravelly clay loam.

Timber, juniper and pinon.

Undergrowth, sagebrush, bitter brush, weeds, and grass.

Beginning at the corner of sections 22, 23, 26, and 27:

Thence:

N. 89°57' W. between sections 22 and 27.

Chains

safer

Over mountainous land, through scattering timber and a medium dense undergrowth; along a N. slope.

11.40 Small draw, drains NE., ascend along a NE. slope.

24.80 Spur, projects N., continue ascent along a NE. slope.

36.00 Spur, projects NW., descend along a W. slope.

39.96 At the $\frac{1}{4}$ section corner of sections 22 and 27:

Set a regulation iron post 30 ins. in the ground, with brass cap marked:

S22

↓

S27
1951

Raise a mound of stone, 3 ft. base and 2 ft. high north of the post.

66.00 Spur, projects SE.
Descend along a rolling SW. slope.

79.92 The corner of sections 21, 22, 27, and 28.

Land, rough and broken in the east and rolling in the west.
Soil, sandy to rocky clay loam.
Timber, juniper and pinon.
Undergrowth, sagebrush, bitter brush, weeds, and grass.

N. 0°09' E. between sections 21 and 22.

Over rolling land, through scattering timber and a medium dense undergrowth, ascend along a SW. slope.

7.60 Spur, projects W., descend along a N. slope.

15.50 Road, bears S. 60° E. and N. 60° W.

17.30 Fence, bears S. 60° E. and N. 60° W.

40.00 At the $\frac{1}{4}$ section corner of sections 21 and 22:

Set a regulation iron post 18 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:

S21 | S22

1951

from which,

A pinon, 6 ins. in diameter, marked S22BT, bears N. 70°00' E., S22 links distant.

A juniper, 3 ins. in diameter, marked BT only, bears S. 71°30' W., 100 links distant.

49.00 Draw, drains NE., ascend along a SE. slope.

51.50 Low spur, projects NE., descend along a NW. slope.

69.80 Draw, drains NE., ascend along a SE. slope.

Chains

- 77.50 Spur, projects NE., descend along a NW. slope.
- 80.00 At the corner of sections 15, 16, 21, and 22:
- Set a regulation iron post 12 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:
- | | |
|----------|-----|
| T37SR21E | |
| S16 | S15 |
| ----- | |
| S21 | S22 |
- 1951
- from which,
- A pinon, 6 ins. in diameter, marked T37SR21ES15BT, bears N. 29°15' E., 82½ links distant.
- A pinon, 3 ins. in diameter, marked BT only, bears S. 14°00' W., 40 links distant.
- A pinon, 6 ins. in diameter, marked T37SR21ES16BT, bears N. 9°45' W., 74 links distant.
- Land, rolling hills.
Soil, sandy to rocky clay loam.
Timber, juniper and pinon.
Undergrowth, sagebrush, weeds, and grass.
-
- Beginning at the corner of sections 14, 15, 22, and 23.
- Thence:
- N. 89°58' W. between sections 15 and 22.
- Over rolling land, through scattering timber and a medium dense undergrowth, descend along a NW. slope.
- 7.20 Draw, drains NE., ascend along a broken E. slope.
- 39.96 At the section corner of sections 15 and 22:
- Set a regulation iron post 14 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:
- | | |
|-------|--|
| S15 | |
| ----- | |
| ¼ | |
| ----- | |
| S22 | |
| ----- | |
| 1951 | |
- from which,
- A pinon, 6 ins. in diameter, marked S22BT, bears S. 47°00' W., 72 links distant.
- A juniper, 16 ins. in diameter, marked S15BT, bears N. 44°00' W., 126 links distant.
- Ascend 156 ft. along a SE. slope.
- 55.00 Spur; projects N. 20° E., descend along a NW. slope.
- 56.05 Road, bears N. and S.
- 63.40 Road, bears N. and S.
- 66.20 Draw, drains N. 10° E., ascend along an E. slope.

Chains

77.00

Spur, projects NE., descend along a NW. slope.

79.92

The corner of sections 15, 16, 21, and 22.

Land, rolling hills.
Soil sandy to gravelly clay loam.
Undergrowth, sagebrush, bitter brush, weeds, and grass.
Timber, juniper and pinon.

N. 0°09' E. between sections 15 and 16.

Over rolling land, through scattering timber and a medium dense undergrowth, descend along a NW. slope.

5.80

Draw, drains NE., ascend along a SE. slope.

17.80

Spur, projects NE.; descend along a NW. slope.

27.20

Draw, drains E., ascend along a SW. slope.

33.50

Spur, projects E., descend along a NW. slope.

40.00

At the $\frac{1}{4}$ section corner of sections 15 and 16:

Set a regulation iron post 16 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:



1951

from which,

A juniper, 4 ins. in diameter, marked, $\frac{1}{4}$ S15BT, bears S. 63°20' E., 92 links distant.

A juniper, 4 ins. in diameter, marked $\frac{1}{4}$ S16BT, bears S. 15°15' W., 62 $\frac{1}{2}$ links distant.

Descend along a general N. slope.

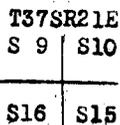
58.70

Draw, drains E., ascend along a SW. slope.

80.00

At the corner of sections 9, 10, 15, and 16:

Set a regulation iron post 12 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:



1951

from which,

A juniper, 3 ins. in diameter, marked BT only, bears N. 41°30' E., 35 links distant.

A pinon, 3 ins. in diameter, marked BT only, bears S. 51°30' W., 64 links distant.

A pinon, 3 ins. in diameter, marked BT only, bears N. 57°30' W., 39 links distant.

Land, rolling hills.
Soil, sandy to gravelly clay loam.

Subdivision of Township 37 South, Range 21 East

Chains

Timber, juniper and pinon.
Undergrowth, sagebrush, bitter brush, rabbit brush, and grass.

Beginning at the corner of sections 10, 11, 14, and 15:

Thence:

N. 89°56' W. between sections 10 and 15.

Over rolling land, through scattering timber and a medium dense undergrowth, descend over a W. slope.

20.00 Cottonwood Wash, about 2 chains wide, drains SE., ascend along a NE. slope.

31.80 Spur, projects S., descend along a SW. slope.

36.00 Road, bears N. and S.

39.95 At the 1/4 section corner of sections 10 and 15:

Set a regulation iron post 10 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:

S1C

S1B

1961

from which,

A juniper, 3 ins. in diameter, marked BT only, bears N. 24°30' E., 104 links distant.

A juniper, 6 ins. in diameter, marked S15BT, bears S. 88°30' E., 64 links distant.

42.00 Draw, drains SE., ascend along a NE. slope.

76.80 Spur, projects SE., descend along a SW. slope.

79.90 The corner of sections 9, 10, 15, and 16.

Land, rolling hills.

Soil, sandy to gravelly clay loam.

Timber, juniper and pinon.

Undergrowth, sagebrush, rabbit brush, weeds, and grass.

N. 0°09' E. between sections 9 and 10.

Over rolling land, through scattering timber and a medium dense undergrowth, ascend along a SW. slope.

3.00 Spur, projects SE., descend along a NE. slope.

27.00 Draw, drains S. 60° E., ascend along a SW. slope.

40.00 At the 1/4 section corner of sections 9 and 10:

Set a regulation iron post 25 ins. in the ground, with brass cap marked:

89

810

1961

from which.

Subdivision of Township 35N 18E, Range 11E, State of Oregon

303

Chains

51.20

A juniper, 5 ins. in diameter, marked S10BT, bears S. 71°30' E., 65 links distant.

A pinon, 6 ins. in diameter, marked S9BT, bears S. 46°00' W., 41 links distant.

Ascend along a SW. slope.

42.70 Spur, projects E., descend along a NE. slope.

78.30 Draw, drains E., ascend along a SW. slope.

80.00 At the corner of sections 3, 4, 9, and 10:

Set a regulation iron post 20 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:

T37SR21E

S4 | S3

S9 | S10

1951
A juniper, 4 ins. in diameter, marked S4BT, bears N. 76°30' W., 27 links distant.

A juniper, 10 ins. in diameter, marked T37SR21E S3BT, bears N. 84°00' E., 78 links distant.

A pinon, 3 ins. in diameter, marked BT only, bears S. 37°00' W., 25 links distant.

A juniper, 4 ins. in diameter, marked S10BT, bears S. 80°00' E., 127 links distant.

Land, rolling hills.
Soil, sandy to gravelly clay loam.

Timber, juniper and pinon.
Undergrowth, sagebrush, weeds, and grass.

Beginning at the corner of sections 2, 3, 10, and 11:

Thence:

N. 89°57' W. between sections 3 and 10.

Over rolling land, through scattering timber and a scant undergrowth, descend 135 ft. along a general NW. slope.

30.20 Brushy Basin, drains S., ascend 65 ft. along a SE. slope.

33.60 Spur, projects S., descend 75 ft. along a N. slope.

38.00 Cottonwood Wash, about 2 chains wide, drains SW. from NW., ascend along a gentle NE. slope.

39.95 At the 1/4 section corner of sections 3 and 10:

Set a regulation iron post 30 ins. in the ground, with brass cap marked:

S3

S10

1951

from which,

Subdivision of Township 37 South, Range 21 East

Chains

A cottonwood, 15 ins. in diameter, marked $\frac{1}{4}$ S10BT, bears S. 80°15' W., 318 links distant.

43.40 Road, bears N. and SW.

63.50 Cottonwood Wash, drains NE. from NW.

79.90 The corner of sections 3, 4, 9, and 10.

Land, rolling hills in the east, and bottom land in the west.
Soil, sand and sandy to gravelly clay loam.
Timber, juniper, pinon, and cottonwood.
Undergrowth, sagebrush, greasewood, weeds, and grass.

N. 0°15' E. between sections 3 and 4.

Over rolling hills, through scattering timber and a medium dense undergrowth, ascend along a SW. slope.

8.30 Road, bears NW. and SE.

14.20 Spur, projects E., descend along a NE. slope.

14.50 Road, bears E. and W.

40.00 At the $\frac{1}{4}$ section corner of sections 3 and 4 on the west bank of Cottonwood Wash:

Set a regulation iron post 28 ins. in the ground, with brass cap marked:



1951

from which,

A cottonwood, 8 ins. in diameter, marked $\frac{1}{4}$ S4BT, bears S. 9°30' W., 32 links distant.

Ascend along a SE. slope.

49.50 Spur, projects E. about 3 chains to end, descend along a NE. slope.

56.30 Cottonwood Wash, about 2 chains wide, drains SE., ascend along a SW. slope.

64.60 Road, bears E. and W.

80.19 The corner of sections 3, 4, 33, and 34 on the north boundary of the township, marked by an iron post, 2 ins. in diameter, conforming to the record:

Land, rolling hills and bottom land.
Soil, sandy clay loam.
Timber, juniper, pinon, and cottonwood.
Underwood, sagebrush, greasewood, weeds, and grass.

Beginning at the corner of sections 4, 5, 32 and 33 on the south boundary of the township, marked by an iron post, 2 ins. in diameter, conforming to the record:

Thence:

Subdivision of Township 37 South, Range 21 East

Chains

N. 0°08' E. between sections 32 and 33.

Over mountainous land, through scattering timber and a scant undergrowth, ascend along a broken SW. slope over ledges.

10.25 Road, bears NW. and SE.

26.85 Spur, projects S. 60° W., descend along a broken NW. slope over ledges.

38.45 Road, bears S. 60° W. and N. 60° E.

40.00 At the $\frac{1}{4}$ section corner of sections 32 and 33:

Set a regulation iron post 26 ins. in the ground, with brass cap marked:



1951

from which,

A juniper 7 ins. in diameter, marked $\frac{1}{4}$ S33BT, bears S. 36°20' E., 56 links distant.

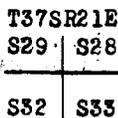
A juniper, 6 ins. in diameter, marked $\frac{1}{4}$ S32BT, bears S. 70°30' W., 34 links distant.

Descend along a NW. slope over ledges.

61.80 Draw, drains SW., ascend along a gentle SW. slope.

80.00 At the corner of sections 28, 29, 32, and 33:

Set a regulation iron post 27 ins. in the ground, with brass cap marked:



1951

from which,

A juniper, 3 ins. in diameter, marked BT only, bears S. 28°15' E., 166 links distant.

A juniper, 3 ins. in diameter, marked BT only, bears S. 78°30' W., 146 links distant.

A juniper, 3 ins. in diameter, marked BT only, bears N. 35°15' W., 76 links distant.

Land, rough and broken slopes in the south and rolling land in the north.

Soil, sandy to rocky clay loam.

Timber, juniper and pinon.

Undergrowth, sagebrush, greasewood, weeds, and grass.

Beginning at the corner of sections 27, 28, 33, and 34:

Thence:

S. 89°57' W. between sections 28 and 33.

Subdivision of Township 37 South, Range 21 East

Chains

Over mountainous land, through scattering timber and a scant undergrowth, descend along a SW. slope.

9.10 Draw, drains NW., ascend along a broken NE. slope.

40.00 At the $\frac{1}{4}$ section corner of sections 28 and 33:

Set a regulation iron post 8 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:

S28

S33

1951

Deposit a sandstone rock, 5x4x3 ins., marked with a cross (X) at the base of the post.

40.90 Low spur, projects N., descend along a NW. slope over ledges.

52.10 Draw, drains SW., ascend along rolling land.

54.70 Road, bears N. 20° E. and S. 20° W. on low spur projecting SW.

57.10 Draw, drains SW., ascend gentle SE. slope.

67.00 Low spur, projects SW., descend along a gentle W. slope.

69.20 Shallow draw, drains S., continue along a gentle S. slope.

80.00 The corner of sections 28, 29, 32, and 33.

Land, rough in the east and gently rolling in the west.
Soil, sandy to gravelly clay loam.
Timber, juniper and pinon.
Undergrowth, sagebrush, greasewood, weeds, and grass.

N. 0° 08' E. between sections 28 and 29.

Over rolling land, through scattering timber and a scant undergrowth, ascend along a SW. slope.

40.00 At the $\frac{1}{4}$ section corner of sections 28 and 29:

Set a regulation iron post 28 ins. in the ground, with brass cap marked:

S29

S28

1951

from which,

A juniper, 3 ins. in diameter, marked BT only, bears S. 89°00' E., 87 links distant.

A pinon, 3 ins. in diameter, marked BT only, bears N. 80°15' W., 91 links distant.

40.50 Spur, projects SE., descend along a NE. slope.

69.00 Draw, drains SE., ascend along a broken S. slope over ledges.

80.00 At the corner of sections 20, 21, 28, and 29:

Subdivision of Township 37 South, Range 21 East

Chains

Set a regulation iron post 26 ins. in the ground to solid rock, in a small mound of stone, with brass cap marked:

T37SR21E

S20	S21
-----	-----

S29	S28
-----	-----

1961 from which,

A pinon, 3 ins. in diameter, marked BT only, bears N. 38°00' E., 78 links distant.

A pinon, 10 ins. in diameter, marked T37SR21ES29BT, bears S. 30°15' W., 63 links distant.

A pinon, 7 ins. in diameter, marked T37SR21ES20BT, bears N. 26°50' W., 107 links distant.

Land, rolling in the south and rough in the north.
 Soil, sandy to rocky clay loam.
 Timber, juniper and pinon.
 Undergrowth, sagebrush, greasewood, weeds, and grass.

Beginning at the corner of sections 21, 22, 27, and 28.

Thence:

S. 89°59' W., between sections 21 and 28.

Over mountainous land, through scattering timber and a scant undergrowth, descend along a SW. slope.

1.70 Draw, drains SE., ascend along a NE. slope.

16.30 Spur, projects S. 20° E., descend along a SW. slope.

18.10 Road, bears N. 10° E. and S. 10° W.

38.10 Draw, drains S., ascend along an E. slope.

39.99 At the $\frac{1}{4}$ section corner of sections 21 and 28;

Set a regulation iron post 30 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:

S21

$\frac{1}{4}$

S28

1951

from which,

A juniper, 4 ins. in diameter, marked $\frac{1}{4}$ S21BT, bears N. 46°30' E., 24 links distant.

A pinon, 4 ins. in diameter, marked $\frac{1}{4}$ S28BT, bears S. 46°30' W., 37 links distant.

46.80 Spur, projects S. 20° E., descend along a SW. slope.

51.90 Draw, drains S. 20° E., ascend along a SE. slope.

79.98 The corner of sections 20, 21, 28, and 29.

Land, rough and broken mountain slopes.
 Soil, sandy to gravelly clay loam.
 Timber, juniper and pinon.
 Undergrowth, sagebrush, greasewood, weeds, and grass.

Subdivision of Township 37 South, Range 21 East

Chains

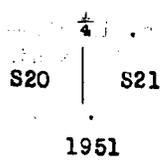
N. 0°08' E. between sections 20 and 21.

Over mountainous land, through scattering timber and a scant undergrowth, ascend along a SE. slope

15.20 Spur, projects SW., descend along a NW. slope.

40.00 At the 1/4 section corner of sections 20 and 21:

Set a regulation iron post 24 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:

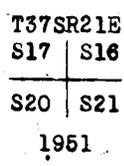


Deposit a sandstone rock, 4x4x4 ins., marked with a cross (X) at the base of the post.

49.70 Draw, drains SW., ascend along a SW. slope over ledges.

80.00 At the corner of sections 16, 17, 20, and 21:

Set a regulation iron post 22 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:



from which

A pinon, 8 ins. in diameter, marked T37SR21ES16BT, bears N. 24°15' E., 64 links distant.

A pinon, 3 ins. in diameter, marked BT only, bears S. 88° 15' E., 71 links distant.

A pinon, 3 ins. in diameter, marked BT only, bears S. 48°30' W., 106 links distant.

A pinon, 3 ins. in diameter, marked BT only, bears N. 62°00' W., 57 links distant.

Land, rough and broken mountain slopes.
Soil, gravelly to rocky clay loam.
Timber, juniper and pinon.
Undergrowth, sagebrush, bitter brush, weeds, and grass.

Beginning at the corner of sections 16, 16, 21, and 22.

Thence:

N. 89°59' W. between sections 16 and 21.

Over mountainous land, through scattering timber and a scant undergrowth, descend along a NW. slope.

1.00 Small draw, drains N., continue along a N. slope.

12.50 Draw, drains NE., ascend along a broken NE. slope.

40.00 At the 1/4 section corner of sections 16 and 21:

Subdivision of Township 37 South, Range 21 East

Chains

8113.10

Set a regulation iron post 26 ins. in the ground, with brass cap marked:

S16

$\frac{1}{4}$

S21

from which,

A pinon, 5 ins. in diameter, marked $\frac{1}{4}$ S16BT, bears N. 61°00' E., 51 links distant.

A juniper, 4 ins. in diameter, marked $\frac{1}{4}$ S21BT, bears S. 59°45' W., 40 links distant.

Ascend along a broken NE. slope over ledges.

56.00 Spur, projects NE., continue along a N. slope.

74.00 Spur, projects SE., descend along a SW. slope.

80.00 The corner of sections 16, 17, 20, and 21.

Land, rough and broken slopes.
Soil, gravelly to rocky clay loam.
Timber, juniper and pinon.
Undergrowth, sagebrush, bitter brush, weeds, and grass.

N. 0°08' E., between sections 16 and 17.

Over mountainous land, through scattering timber and a scant undergrowth, ascend along a SW. slope.

4.30 Spur, projects SE., descend along a NE. slope.

23.00 Dim road, bears E. and W.

38.50 Draw, drains N. 70° E., ascend along a SE. slope.

40.00 At the $\frac{1}{4}$ section corner of sections 16 and 17:

Set a regulation iron post 26 ins. in the ground, with brass cap marked:

$\frac{1}{4}$

S17

S16

1951

from which,

A pinon, 4 ins. in diameter, marked $\frac{1}{4}$ S16BT, bears S. 89°00' E., 70 links distant.

A juniper, 6 ins. in diameter, marked $\frac{1}{4}$ S17BT, bears S. 88°00' W., 55 links distant.

Ascend along a SE. slope.

43.80 Spur, projects E., descend along a NE. slope.

50.40 Draw, drains S. 80° E., ascend along a SE. slope.

56.50 Spur, projects E., descend along a NE. slope.

59.00 Draw, drains E., ascend along a SE. slope.

76.50 Spur, projects S. 60° E., descend along a NE. slope.

Subdivision of Township 37 South, Range 21 East

Chains

80.00

At the corner of sections 8, 9, 16 and 17:

Set a regulation iron post 20 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:

T37SR21E

S8 | S9

S17 | S16

1951

from which,

A pinon, 12 ins. in diameter, marked T37SR21ES16BT, bears S. 71°00' E., 87½ links distant.

A pinon, 3 ins. in diameter, marked BT only, bears S. 28°00' W., 34 links distant.

A pinon, 3 ins. in diameter, marked BT only, bears N. 13°00' W., 64 links distant.

Land, rough and broken slopes.

Soil, gravelly to rocky clay loam.

Timber, juniper and pinon.

Undergrowth, sagebrush, bitter brush, weeds, and grass.

Beginning at the corner of sections 9, 10, 15, and 16:

Thence:

S. 89°59' W. between sections 9 and 16.

Over mountainous land, through scattering timber and a scant undergrowth, descend along a SW. slope.

21.50

Road, bears N. and S.

23.00

Draw, drains SE., ascend along a NE. slope.

40.01

At the ¼ section corner of sections 9 and 16:

Set a regulation iron post 28 ins. in the ground, with brass cap marked:

S9

¼

S16

1951

from which,

A pinon, 5 ins. in diameter, marked ¼S16BT, bears S. 28°15' E., 72 links distant.

A juniper, 8 ins. in diameter, marked ¼S9BT, bears N. 16°30' W., 117 links distant.

Ascend along a NE. slope.

50.52

Spur, projects S. 20° E., descend along a SW. slope.

77.00

Draw, drains S. 80° E., ascend along a NE. slope.

80.02

The corner of sections 8, 9, 16, and 17.

Subdivision of Township 37 South, Range 21 East.

Chains

32120

Land, rolling mountains.
Soil, gravelly to rocky clay loam.
Timber, juniper and pinon.
Undergrowth, sagebrush, bitter brush, weeds, and grass.

N. 0°08' E. between sections 8 and 9.

Over mountainous land, through scattering timber and a scant undergrowth, descend along a NE. slope.

1.50 Draw, drains SE., ascend along a SW. slope over low ledges.

18.35 Spur, projects N. 80°E., descend along a N. slope.

21.80 Road, bears E. and W.

26.50 Road, bears S. 80° W. and E.

34.90 Draw, drains N. 70° E., ascend along a SE. slope:

38.50 Spur, projects N. 70° E., descend along a NW. slope

40.00 At the $\frac{1}{4}$ section corner of sections 8 and 9:

Set a regulation iron post 18 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:



1951 from which

A pinon, 6 ins. in diameter, marked $\frac{1}{4}$ S9BT, bears N. 58°30' E., 41 links distant.

A pinon, 5 ins. in diameter, marked $\frac{1}{4}$ S8BT, bears N. 83°45' W., 95 links distant.

48.30 Draw, drains N. 60° E., ascend along a SE. slope.

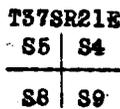
57.40 Spur, projects E., descend along a NE. slope.

60.80 Draw, drains E., ascend along a SE. slope.

76.40 Spur, projects N. 70° E., road along top, descend along a NW. slope.

80.00 At the corner of sections 4, 5, 8, and 9:

Set an iron post, 16 ins. long and 1 in. in diameter, 10 ins. in a hole drilled into solid sandstone, with brass cap marked:



1951 from which

A juniper, 3 ins. in diameter, marked BT only, bears N. 38° 15' E., 50 links distant.

A juniper, 10 ins. in diameter, marked T37SR21E S9BT, bears S. 60°45' E., 49 links distant.

A juniper, 4 ins. in diameter, marked S8BT, bears

Subdivision of Township 37 South, Range 21 East

Chains

S. 26°30' W., 27 $\frac{1}{2}$ links distant.

A juniper, 3 ins. in diameter, marked BT only, bears N. 36°30' W., 37 links distant.

Land, rough and broken mountain slopes.

Soil, gravelly to rocky clay loam.

Timber, juniper and pinon.

Undergrowth, sagebrush, bitter brush, weeds, and grass.

Beginning at the corner of sections 3, 4, 9, and 10:

Thence:

West, between sections 4 and 9.

Over mountainous land, through scattering timber and a scant undergrowth, descend along a SW. slope.

1.00 Draw, drains SE., ascend an E. slope.

5.20 Spur, projects N. about 1 chain to end.

10.80 Recross draw, drains NE.

21.80 Recross draw, drains SE., ascend along a NE. slope.

40.01 At the $\frac{1}{4}$ section corner of sections 4 and 9;

Set a regulation iron post 18 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:

S 4

|-----|

S 9

1961

from which

A pinon, 8 ins. in diameter, marked $\frac{1}{4}$ S9BT, bears S. 31°15' W., 125 links distant.A pinon, 4 ins. in diameter, marked $\frac{1}{4}$ S4BT, bears N. 28°00' W., 37 links distant.

Ascend along a NE. slope.

69.40 Spur, projects N. 60° E., descend along a NW. slope.

69.60 Road, bears NE. and SW.

69.85 Road, bears N. 60° E. and S. 60° W.

80.02 The corner of sections 4, 5, 8, and 9.

Land, rolling mountain slopes.

Soil, gravelly to rocky clay loam.

Timber, juniper and pinon.

Undergrowth, sagebrush, bitter brush, weeds, and grass.

N. 0°17' E. between sections 4 and 5.

Over mountainous land, through scattering timber and a scant undergrowth, descend along a steep NW. slope.

Subdivision of Township 37 South, Range 21 East

Chains

- 2.00 Draw, drains NE., ascend along a steep SE. slope.
- 13.30 Spur, projects E., descend along a NE. slope.
- 22.50 Road, bears S. 70° W. and E.
- 34.60 Draw, drains N. 70° E., ascend along a SW. slope.
- 40.00 At the $\frac{1}{4}$ section corner of sections 4 and 5:
Set a regulation iron post 6 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:



1951 from which

A juniper, 5 ins. in diameter, marked $\frac{1}{4}$ S5BT, bears S. 76°30' W., 27 links distant.

- 43.80 Spur, projects NE., descend along a NW. slope.
- 48.90 Road, bears N. 70° E. and S. 70° W.
- 53.00 Draw, drains NE., ascend along a SE. slope.
- 60.00 Road, bears E. and W.
- 69.70 Spur, projects N. 70° E., descend along a NW. slope.
- 79.10 Draw, drains E., ascend along a SE. slope.
- 80.17 The corner of sections 4, 5, 32, and 33 on the north boundary, marked by an iron post, 2 ins. in diameter, conforming to the record:

Land, rough and broken slopes.
Soil, rocky clay loam.
Timber, juniper and pihon.
Undergrowth, sagebrush, bitter brush, weeds, and grass.

Beginning at the corner of sections 5, 6, 31, and 32 on the south boundary of the township, marked by an iron post, 2 ins. in diameter conforming to the record:

Thence:

N. 0°08' E. between sections 31 and 32.

Over mountainous land, through scattering timber and a scant undergrowth, over broken land with considerable exposed sandstone, ascend along a SE. slope.

- 16.75 Spur, projects SE., descend along a NE. slope over ledges.
- 29.75 Rocky draw, drains SE., ascend along a rocky SW. slope over ledges.
- 40.00 At the $\frac{1}{4}$ section corner of sections 31 and 32:
Set a regulation iron post 18 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:

Division of Township 37 South, Range 21 East



1951

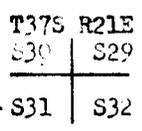
Deposit a sandstone rock, 4x4x4 ins., marked with a cross (X) at the base of the post.

Ascend along a SW. slope over barren sandstone.

50.00 Spur, projects E., descend along a broken NE. slope over ledges and barren sandstone.

80.00 At the corner of sections 29, 30, 31, and 32:

Set a regulation iron post 25 ins. in the ground to solid rock and in a small mound of stone, with brass cap marked:



1951

Deposit broken glass at the base of the post.

Land, rough and broken sandstone ledges and canyons.

Soil, shallow clay loam.

Timber, juniper and pinon.

Undergrowth, sagebrush, bitter brush, weeds, and grass.

Beginning at the corner of sections 28, 29, 32, and 33:

Thence:

N. 89°58' W. between sections 29 and 32.

Over rough and broken land, through scattering timber and a scant undergrowth, ascend along a SE. slope.

3.90 Spur, projects S., descend along a SW. slope.

13.80 Draw, drains SW., ascend along a SE. slope.

17.90 Spur, projects S. about 4 chains to end, descend along a SW. slope.

20.00 Draw, drains SE., ascend over an E. slope.

35.30 Spur, projects S. 20° E., descend along a SW. slope.

40.00 At the section corner of sections 29 and 32:

Set a regulation iron post 28 ins. in the ground, with brass cap marked:

S29



S32

1951

Raise a mound of stone, 2 ft. base and 1 1/2 ft. high north of the post.

Descend along a SW. slope over ledges.

Chains

- 49.90 Butler Wash, stream of good water, 3 links wide and 1 in. deep flows S. 20° E., ascend along a broken SE. slope over ledges and barren sandstone.
- 68.70 Spur, projects SE., descend along a broken SW. slope.
- 79.20 Fork of Butler Wash, stream of water flows S. 80° E., ascend along NE. slope.
- 80.00 The corner of sections 29, 30, 31, and 32.
 Land, rough and broken sandstone ledges and canyons.
 Soil, shallow clay loam.
 Timber, juniper and pinon.
 Undergrowth, sagebrush, bitter brush, weeds, and grass.

 N. 89°58' W. between sections 30 and 31.
 Over rough and broken land, through scattering timber and a scant undergrowth, ascend along a SE. slope over ledges.
- 80.00 At the $\frac{1}{4}$ section corner of sections 30 and 31:
 Set a regulation iron post 25 ins. in the ground, with brass cap marked:

$$\frac{\$30}{\frac{1}{4}}$$

$$\frac{S31}{1951}$$

from which,

A juniper, 3 ins. in diameter, marked BT only, bears S. 42°45' E., 35 links distant.

A juniper, 6 ins. in diameter, marked $\frac{1}{4}$ S30BT bears N. 27°00' W., 41 links distant.

 Ascend along a broken E. slope over ledges.
- 81.30 Top of Comb Reef, bearing N. 30° W. and S. 30° E., descend along an abrupt SW. slope over high ledges.
- 70.49 The corner of sections 25, 30, 31, and 36 on the west boundary of the township, marked by an iron post 2 ins. in diameter, conforming to the record:
 Land, rough and broken slopes, sandstone ledges and canyons.
 Soil, rocky clay loam.
 Timber, juniper and pinon.
 Undergrowth, sagebrush, bitter brush, weeds, and grass.

 Beginning at the corner of sections 29, 30, 31, and 32:
 Thence:
 N. 0°08' E. between sections 29 and 30.
 Over rough and broken land, through scattering timber and a scant undergrowth.
 Fork of Butler Wash, small stream of water, in the Butler Wash

Subdivision of Township 37 South, Range 21 East

Chains

along a steep SW. slope over high ledges.

40.00 At the 1/4 section corner of sections 29 and 30:

Set a regulation iron post 24 ins. in the ground to solid rock, and in a small mound of stone, with brass cap marked:



1951 from which,

A pinon, 3 ins. in diameter, marked BT only, bears N. 38°00' E., 74 links distant.

A juniper, 6 ins. in diameter, marked 1/4 S29BT, bears S. 19°00' W., 106 links distant.

Continue ascent along a SW. slope.

47.50 Spur, projects S. 20° E., descend along a NE. slope.

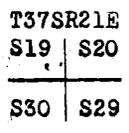
63.50 Draw, drains S. 80° E., ascend along a SW. slope over ledges.

73.50 Low spur, projects S. 80° E., descend along a NE. slope.

79.50 Shallow draw, drains S. 60° E., ascend along a SW. slope.

80.00 At the corner of sections 19, 20, 29, and 30:

Set a regulation iron post 13 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:



1951

Deposit a sandstone rock, 4x4x4 ins., marked with a cross (X) at the base of the post.

Land, rough and broken slopes.

Soil, gravelly to rocky clay loam.

Timber, juniper and pinon.

Undergrowth, sagebrush, bitter brush, weeds, and grass.

Beginning at the corner of sections 20, 21, 28, and 29:

Thence:

S. 89°56' W. between sections 20 and 29.

Over mountainous land, through scattering timber and a scant undergrowth, ascend along a SE. slope.

16.80 Spur, projects SW., descend along a NW. slope.

30.00 Shallow draw, drains S. 50° W., ascend along an E. slope.

40.01 At the 1/4 section corner of sections 20 and 29 on a low spur projecting S:

Set a regulation iron post 27 ins. in the ground, with brass cap

Subdivision of Township 37th South, Range 21st East

Chains	Chains
	<p>marked:</p> <p style="text-align: center;">820</p> <p style="text-align: center;">+ ———</p> <p style="text-align: center;">829</p> <p style="text-align: center;">1951</p> <p style="text-align: right;">from which,</p> <p>A pinon, 3 ins. in diameter, marked BT only, bears N. 40°45' E., 73 links distant.</p> <p>A juniper, 5 ins. in diameter, marked +S29BT, bears S. 25°00' W., 77 links distant.</p> <p>Descend along a W. slope.</p>
55.00	Butler Wash, drains S. 20° W., ascend along a steep and rocky E. slope.
74.70	Spur, projects S. 60° E., descend along a SW. slope.
80.02	The corner of sections 19, 20, 29, and 30.
	<p>Land, rough and broken sandstone slopes. Soil, shallow gravelly to rocky clay loam. Timber; juniper and pinon. Undergrowth, sagebrush, bitter brush, weeds, and grass.</p> <p style="text-align: center;">-----</p> <p>N. 89°55' W. between sections 19 and 30.</p> <p>Over mountainous land, through scattering timber and a scant undergrowth.</p>
0.70	Shallow draw, drains S. 60° E., ascend along a NE. slope.
12.20	Spur, projects S., descend along a rough and broken SW. slope over ledges.
25.50	Fork of Butler Wash, drains S. 30° E., ascend along a broken NE. slope over ledges.
40.00	At the $\frac{1}{4}$ section corner of sections 19 and 30.
	<p>Set a regulation iron post 26 ins. in the ground, with brass cap marked:</p> <p style="text-align: center;">S19</p> <p style="text-align: center;">+ ———</p> <p style="text-align: center;">830</p> <p style="text-align: center;">1951</p> <p style="text-align: right;">from which,</p> <p>A pinon, 3 ins. in diameter, marked BT only, bears N. 52°30' E., 11 links distant.</p> <p>A pinon, 8 ins. in diameter, marked +S50BT, bears S. 60°00' W., 110 links distant.</p> <p>Continue ascent along a steep and rocky NE. slope.</p>
62.30	Top of Comb Reef bearing S. 30° E. and N. 30° W., descend along an abrupt SW. slope over a series of ledges.
78.80	The corner of sections 19, 24, 25, and 30 on the west boundary of the township, marked by an iron post 2 ins. in diameter,

Subdivision of Township 37 South, Range 21 East

Chains

conforming to the record:

Land, rough and broken slopes bordering the reef.

Soil, gravelly to rocky clay loam.

Timber, juniper and pinon.

Undergrowth, sagebrush, bitter brush, weeds, and grass.

Beginning at the corner of sections 19, 20, 29, and 30:

Thence:

N. 0°08' E. between sections 19 and 20.

Over mountainous land, through scattering timber and a scant undergrowth, ascend along a SW. slope.

7.50 Spur, projects SE., descend along a rough and broken NE. slope.

40.00 At the $\frac{1}{4}$ section corner of sections 19 and 20.

Set a regulation iron post 25 ins. in the ground to solid rock, and in a small mound of stone, with brass cap marked:

	$\frac{1}{4}$	
S19		S20

1951

from which,

A pinon, 3 ins. in diameter, marked BT only, bears N. 21°00' E. 110 links distant.

A pinon, 5 ins. in diameter, marked $\frac{1}{4}$ S19BT, bears S. 66°15' W., 114 links distant.

Descend along a NE. slope.

57.70 Butler Wash, drains S. 30° E., ascend along a broken SW. slope.

80.00 At the corner of sections 17, 18, 19, and 20:

Set a regulation iron post 26 ins. in the ground, with brass cap marked:

T37SR21E		
S18		S17

S19		S20

1951

from which,

A juniper, 3 ins. in diameter, marked BT, only, bears N. 55°45' E., 128 links distant.

A juniper, 10 ins. in diameter, marked T37SR21ES20BT, bears S. 52°30' E., 79 links distant.

A pinon, 3 ins. in diameter, marked BT only, bears S. 18°30' W., 30 links distant.

A juniper, 10 ins. in diameter, marked T37SR21ES18BT, bears N. 73°15' W., 40 links distant.

Land, rough and broken slopes.

Soil, gravelly to rocky loam.

Subdivision of Township 37 South, Range 21 East

Chains

continued

Timber, juniper and pinon.
Undergrowth, sagebrush, bitter brush, weeds, and grass.

Beginning at the corner of sections 16, 17, 20, and 21.

Thence:

S. 89°53' W. between sections 17 and 20.

Over mountainous land, through scattering timber and scant undergrowth, over an E. slope.

4.10 Spur, projects S., descend along a broken SW. slope.

18.50 Road, bears NW. and SE.

31.00 Draw, drains S. 20° W., ascend along a broken SE. slope.

37.70 Spur, projects SW., descend along a W. slope.

40.00 At the $\frac{1}{4}$ section corner of sections 17 and 20:

Set a regulation iron post 22 ins. in the ground to solid rock, and in a small mound of stone, with brass cap marked:

S17



S20

1951

from which,

A pinon, 6 ins. in diameter, marked $\frac{1}{4}$ S20BT, bears S. 44°00' W., 60 links distant.

A pinon, 6 ins. in diameter, marked $\frac{1}{4}$ S17BT, bears N. 5°00' W., 100 links distant.

Descend over a W. slope.

62.00 Draw, drains S. 20° E., ascend along a NE. slope.

74.70 Spur, projects S. 30° E., descend along a SW. slope.

80.00 The corner of sections 17, 18, 19, and 20.

Land, rough and broken mountain slopes.
Soil, gravelly to rocky clay loam.
Timber, juniper and pinon.
Undergrowth, sagebrush, bitter brush, weeds, and grass.

N. 89°53' W. between sections 18 and 19.

Over mountainous land, through scattering timber and a scant undergrowth, descend along a SW. slope over ledges.

10.50 Butler Wash, drains S. 30° E., ascend along a NE. slope over ledges

33.50 Spur, projects S. 30° E., descend along a broken SW. slope over ledges.

40.00 At the $\frac{1}{4}$ section corner of sections 18 and 19:

Subdivision of Township 37 South, Range 21 East

Chains

Set a regulation iron post 4 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:

S18

4

S19

1951

from which

A juniper, 3 ins. in diameter, marked BT only, bears S. $59^{\circ}30'$ W., 52 links distant.

A pinon, 10 ins. in diameter, marked S18BT, bears N. $41^{\circ}30'$ W., 61 links distant.

Descend along a broken SW. slope over ledges.

50.60 Draw, drains S. 30° E., ascend along a NE. slope over ledges.

59.20 Spur, projects S. 30° E., descend along a broken SW. slope over ledges.

73.60 Draw, drains SE., ascend along a broken NE. slope.

79.11 The corner of sections 13, 18, 19, and 24 on the west boundary of the township, marked by an iron post 2 ins. in diameter, conforming to the record.

Land, rough and broken mountain slopes.

Soil, rocky clay loam.

Timber, juniper and pinon.

Undergrowth, sagebrush, bitter brush, weeds, and grass.

Beginning at the corner of sections 17, 18, 19, and 20:

Thence:

N. $0^{\circ}08'$ E. between sections 17 and 18.

Over mountainous land, through scattering timber and a scant undergrowth, ascend along a SW. slope.

18.00 Spur, projects S. 30° E., descend along a NE. slope.

40.00 At the $\frac{1}{4}$ section corner of sections 17 and 18:

Set a regulation iron post 18 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:

S18

S17

1951

from which,

A juniper, 6 ins. in diameter, marked S17BT, bears S. $46^{\circ}45'$ E., 113 links distant.

A juniper, 8 ins. in diameter, marked S18BT, bears N. $89^{\circ}00'$ W., 117 links distant.

Continue descent along a NE. slope.

54.90 Draw, drains SE., ascend along a SW. slope.

72.00 Low spur, projects SE., continue along an E. slope.

Subdivision of Township 37 South, Range 21 East

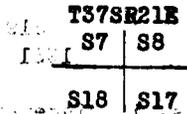
aniadO

Chains

80.00

At the corner of sections 7, 8, 17, and 18,

Set a regulation iron post 25 ins. in the ground, with brass cap marked:



1951 from which,

A juniper, 3 ins. in diameter, marked BT only, bears S. 25°00' E., 70 links distant.

A pinon, 7 ins. in diameter, marked T37SR21E18BT, bears S. 4°45' W., 56 links distant.

A juniper, 3 ins. in diameter, marked BT only, bears N. 78°30' W., 45 links distant.

Land, broken mountain slopes.
Soil, gravelly to rocky clay loam.
Timber, juniper and pinon.
Undergrowth, sagebrush, bitter brush, weeds, and grass.

Beginning at the corner of sections 8, 9, 16, and 17:

Thence:

S. 89°54' W. between sections 8 and 17:

Over mountainous land, through scattering timber and a scant undergrowth, ascend along a NE. slope.

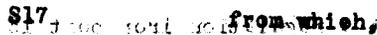
34.80

Spur, projects S., descend along a SW. slope.

39.98

At the $\frac{1}{4}$ section corner of sections 8 and 17:

Set a regulation iron post 12 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:



A pinon, 10 ins. in diameter, marked $\frac{1}{4}$ S8BT, bears N. 15°15' W., 31 links distant.

Continue descent along a SW. slope.

60.50

Draw, drains SE., ascend along an E. slope.

79.96

The corner of sections 7, 8, 17, and 18.

Land, rough mountain slopes.
Soil, sandy to rocky clay loam.
Timber, juniper and pinon.
Undergrowth, sagebrush, bitter brush, weeds, and grass.

N. 89°55' W. between sections 7 and 18.

Subdivision of Township 37 South, Range 21 East

Chains

Over mountainous land, through scattering timber and a scant undergrowth, ascend an E. slope.

- 1.10 Spur, projects S., descend along a rocky SW. slope.
- 19.20 Draw, drains SW., ascend along a SE. slope.
- 24.20 Low spur, projects S., descend along a SW. slope.
- 26.10 Draw, drains SE., ascend along a NE. slope.
- 35.40 Low spur, projects SE., descend along a SW. slope.
- 38.00 Draw, drains SE., ascend along a NE. slope.
- 40.00 At the $\frac{1}{4}$ section corner of sections 7 and 18.
Set a regulation iron post 12 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:
- S7
-
- S18
1951
- from which,
- A pinon, 5 ins. in diameter, marked S7BT, bears N. 35°00' E., 63 links distant.
- A pinon, 8 ins. in diameter, marked S18BT, bears S. 4°00' W., 21 links distant.
- Continue ascent along a NE. slope,
- 46.30 Point of a spur from the N., descend along a SW. slope.
- 58.50 Draw, drains S. 20° E., ascend along a NE. slope.
- 79.37 The corner of sections 7, 12, 13, and 18 on the west boundary of the township, marked by an iron post, 2 ins. in diameter, conforming to the record.
- Land, rough mountain slopes.
Soil, gravelly to rocky loam.
Timber, juniper and pinon.
Undergrowth, sagebrush, bitter brush, weeds, and grass.
-
- Beginning at the corner of sections 7, 8, 17, and 18:
- Thence:
- N. 0°08' E. between sections 7 and 8.
- Over mountainous land, through scattering timber and a scant undergrowth, ascend along a SE. slope.
- 8.50 Spur, projects S. 10° W., descend along a NW. slope.
- 21.50 Shallow draw, drains S. 70° W., ascend along a SW. slope.
- 30.30 Spur, projects S. 10° E. and E., from NW., descend along a NE. slope.
- 40.00 At the $\frac{1}{4}$ section corner of sections 7 and 8:
Set a regulation iron post 28 ins. in the ground, with brass cap marked:

Subdivision of Township 37 South, Range 21 East

Chains

S7 | S8

1951 from which

A juniper, 7 ins. in diameter, marked $\frac{1}{4}$ S8BT, bears N. 59°30' E., 62 links distant.

A pinon, 3 ins. in diameter, marked BT only, bears S. 21°00' W., 33 links distant.

Continue descent along a NE. slope.

51.50 Draw, drains E., ascend along a SE. slope.

63.60 Spur, projects E., descend along a NW. slope.

80.00 At the corner of sections 5, 6, 7, and 8.

Set a regulation iron post 18 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:

T37SR21E	
S6	S5
— —	
S7	S8

1951 from which,

A pinon, 10 ins. in diameter, marked T37SR21ES5BT, bears N. 51°00' E., 40 links distant.

A juniper, 3 ins. in diameter, marked BT only, bears S. 80°45' E., 55 links distant.

Land, rough mountain slopes.

Soil, gravelly to rocky clay loam.

Timber, juniper and pinon.

Undergrowth, sagebrush, bitter brush, weeds, and grass.

Beginning at the corner of sections 4, 5, 8, and 9:

Thence:

S. 89°55' W. between sections 5 and 8.

Over mountainous land, through scattering timber and a scant undergrowth, descend along a NW. slope.

8.40 Draw, drains NE., ascend along a SE. slope.

39.97 At the $\frac{1}{4}$ section corner of sections 5 and 8:

Set a regulation iron post 18 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked:

S5

S8

1951 from which,

A pinon, 6 ins. in diameter, marked $\frac{1}{4}$ S8BT, bears S. 18°15' W., 12 links distant.

Subdivision of Township 37 South, Range 21 East

Chains

Continue ascent along a SE. slope.

50.60 Spur, projects N. 60° E., old road along top, descend along a NW. slope.

79.94 The corner of sections 5, 6, 7, and 8.

Land, rolling mountain slopes.
Soil, sandy to gravelly clay loam.
Timber, juniper, and pinon.
Undergrowth, sagebrush, bitter brush, weeds, and grass.

N. 89°55' W. between sections 6 and 7.

Over mountainous land, through scattering timber and a scant undergrowth, descend along a NW. slope.

9.70 Draw, drains NE., ascend along a SE. slope.

20.90 Spur, projects NE., descend along a NW. slope.

25.90 Draw, drains N., ascend along a NE. slope.

26.40 Spur, projects N. 10° W., descend a W. slope.

40.00 At the $\frac{1}{4}$ section corner of sections 6 and 7:

Set a regulation iron post 22 ins. in the ground, to solid rock, and in a mound of stone, with brass cap marked:

36

$\frac{1}{4}$ ———

S7

1951 from which,

A pinon, 8 ins. in diameter, marked $\frac{1}{4}$ S7BT, bears S. 44°00' E., 74 links distant.

Continue descent along a NW. slope.

46.30 Draw, drains N. 20° E., ascend an E. slope.

48.30 Spur, projects N. 20° E., descend along a NW. slope.

51.30 Draw, drains N. 30° E., ascend an E. slope.

69.20 Spur, projects NE., descend along a NW. slope.

79.75 The corner of sections 1, 6, 7, and 12 on the west boundary of the township, marked by an iron post, 2 ins. in diameter, conforming to the record.

Land, rolling mountain slopes.
Soil, gravelly to rocky clay loam.
Timber, juniper and pinon.
Undergrowth, sagebrush, bitter brush, weeds, and grass.

Beginning at the corner of sections 5, 6, 7, and 8:

Thence:

N. 0°14' E. between sections 5 and 6.

Over mountainous land, through scattering timber and a scant

Chains

- undergrowth, descend along a NW. slope.
- 5.80 Draw, drains NE., ascend along a SE. slope.
- 9.70 Spur, projects NE., descend along a NE. slope.
- 12.20 Draw, drains NE., ascend along a SE. slope.
- 15.10 Spur, projects E., descend along a NE. slope.
- 17.00 Draw, drains E., ascend along a SE. slope.
- 25.10 Spur, projects NE. descend along a NW. slope.
- 40.00 At the $\frac{1}{4}$ section corner of sections 5 and 6:
- Set a regulation iron post 27 ins. in the ground, with brass cap marked:
- $\frac{1}{4}$
 S6 | S5
 1951 from which,
- A pinon, 8 ins. in diameter, marked $\frac{1}{4}$ SSBT, bears S. 5°30' E., 107 links distant.
- A juniper, 3 ins. in diameter, marked BT only, bears N. 83°00' W., 26 links distant.
- 79.00 Shallow draw, drains NE.
- 80.24 The corner of sections 5, 6, 31 and 32 on the north boundary of the township, marked by an iron post, 2 ins. in diameter, conforming to the record:
- Land, rolling mountain slopes.
 Soil, sandy to gravelly clay loam.
 Timber, juniper and pinon.
 Undergrowth, sagebrush, bitter brush, weeds, and grass.

General Description

Township 37 South, Range 21 East is situated in the rough land bordering Cottonwood and Butler washes and about fifteen miles west of the town of Blanding, Utah. The land ranges in elevation from about 4900 to 6200 feet above sea level. The area is drained mainly by Cottonwood Wash, which extends southeasterly through the eastern part of the township and by Butler Wash in the west. A small part of the township in the southwest corner is in the drainage of Comb Wash. The land in the major part of the township is from rolling to semi-rough in nature, but along the east boundary and in the southeast corner are high mesas, separated from the low country by steep slopes and ledges. Black Mesa is located in sections 25, 26, 27, 34, 35, and 36. The land on these mesa tops gently rolling in character. The timber is mainly a scrub juniper and pinon pine. This timber is of little commercial value except for firewood and fence posts. The undergrowth is very scant in most of the area and has been badly overgrazed. Sagebrush, shadscale, bitter brush, weeds, and grass are to be found in varying amounts throughout the area. There is no permanent living water in the township. In the bottoms of Cottonwood, Butler, and Comb washes are intermittent streams, which increase and decrease in size depending upon the season, and at some times of the year are

General Description of T. 37 S., R. 21 E.

entirely dry. The soil is of a poor quality, containing a considerable quantity of clay. The entire area appears to be underlaid by mineral deposits. The Atomic Energy Commission has a camp located in the southwest quarter of section 3 and the mining activity is now centered in that locality. There is one main road in the township, leading from the Blanding-Natural Bridges road to Butler Wash, and which traverses through the center of the township. At the time of the survey there were many roads leading to prospects and core drill rig locations. In the center of the main prospecting area these roads were found so frequently that it was impossible to plat them, and the main road only was located by traverse.

ORIGINAL

FIELD NOTES

OF THE INDEPENDENT RESURVEY

OF

THE NORTH BOUNDARY

AND

THE SURVEY OF THE EAST BOUNDARY

AND

A PORTION OF THE SUBDIVISION

OF

TOWNSHIP 38 SOUTH, RANGE 17 EAST

Of the Salt Lake Meridian,

of the State of Utah

EXECUTED BY

Vern E. Lane - Cadastral Surveyor (Chief of Party)

Fred R. Chappell - Cadastral Surveyor

Craig P. Sylvester - Cartographic Survey Aid

Royd S. Owens - Cartographic Survey Aid

Under special instructions dated April 2, 1957, which provided

for the surveys included under Group No. 406, approved April 10, 1957

and assignment instructions dated June 14, 1957.

Survey commenced June 26, 1957

Survey completed July 22, 1957

INDEX DIAGRAM

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31	21 20 32	19 33	11 34	35	10 10 36 1

Fred R. Chappell _____

Craig P. Sylvester _____

Boyd S. Owens _____

Township 38 South, Range 17 East

Chains

The north boundary of Township 38 South, Range 17 East of the Salt Lake Meridian, Utah was surveyed in 1884 by A. D. Ferron and is being abandoned. The west boundary was surveyed by Robert C. Yundt and Charles F. Moore in 1929. The south boundary was surveyed concurrently under this group and is described in the field notes of the survey of Township 39 South, Range 17 East. The following field notes are those of an independent resurvey of the north boundary and the survey of the east boundary and that portion of the subdivision considered sufficient in extent to mark the boundaries of those sections normally considered State school land and to facilitate the development of the natural resources. The corners along the latitudinal lines were established at the true latitudinal curve and all corners of the subdivision are established at points calculated to be in the same position they would occupy if the township had been completely subdivided.

The survey was executed with Buff and Buff solar transit, serial No. 26066, and W. and L. E. Gurley transits, serial Nos. 481346 and 461263, all transits being the property of the Bureau of Land Management and constructed in accordance with their standard specifications. The instruments have full vertical circles and improved type solar attachments. The horizontal plate has two double verniers placed opposite to each other and the vertical circle has one double vernier. All verniers of the transits and solar attachments are graduated to single minutes of arc. The instruments were in good adjustment, and prior to the beginning of the field work they were examined and all errors eliminated. They were maintained in good adjustment during the survey.

The geographic position of the southeast corner of the township, determined through section line ties made to U.S. Coast and Geodetic survey station "Bridges" in Township 37 South, Range 17 East, is as follows: Latitude 37° 25' 57.54" N. and Longitude 109° 58' 58.39" W.

The mean magnetic declination was found to be 15° E.

The direction of the lines of the survey were determined by reference to true meridians established on line by hour angle observations on Polaris or altitude observations on the sun and by the solar transit method.

The measurements were made with steel ribbon tapes, 8 chains in length. These tapes are graduated every link for the first chain and thereafter at intervals of 10 links. They were tested by comparison with a Lufkin standard steel tape, 1 chain in length and found to be correct. The measurements were made on the slope, the vertical angle of each interval determined by the use of clinometers and the slope distances properly reduced to horizontal equivalents, which appear in these notes. In most cases the distances were determined by chaining, but in some instances they were obtained by triangulation and in others by traverses and offsets. The details of these were thoroughly verified and only the true line distances returned in the notes.

East Boundary of T. 38 S., R. 17 E.

Beginning at the cor. of Ts. 38 and 39 S., Rs. 17 and 18 E., a 3 in. iron post, conforming to the record.

North, bet. secs. 31 and 36.

Over gently rolling desert land, through dense timber and scant undergrowth.

8.00 Leave timber, enter sagebrush opening.

14.00 Leave sagebrush opening, enter dense timber.

East Boundary of T. 38 S., R. 17 E.

Chains		Meters
29.30	Leave timber, enter sagebrush opening.	
33.60	Leave sagebrush opening, enter dense timber.	
40.00	Point for the 1/4 sec. cor. of secs. 31 and 36.	
	Set an iron post, 30 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, with brass cap mkd.	
	T38S R17E R18E S36 S31 1957	
	Deposit a sandstone, 12x4x4 ins., mkd. with a cross (X) at the base of the post.	
62.93	Triangulation station "Indian Boxer", bears S. 72° 24' W., .72 lks. dist.	
71.00	Enter sagebrush opening.	
80.00	Point for the cor. of secs. 25, 30, 31 and 36.	
	Set an iron post, 30 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, with brass cap mkd.	
	T38S R17E R18E S25 S30 S36 S31 1957	
	Deposit charcoal at the base of the post.	
	Land, gently rolling desert. Soil, sandy loam. Timber, dense juniper and pinion. Undergrowth, medium sagebrush and grass in the openings, scant grass and weeds in the timber.	
	North, bet. secs. 25 and 30.	
	Over gently rolling desert land, through dense timber and sagebrush openings.	
8.00	Leave brush opening, enter dense timber.	
9.50	Wash, drains N. 70° W.	
15.50	Spur, projects W.	
40.00	Point for the 1/4 sec. cor. of secs. 25 and 30.	
	Set an iron post, 30 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.	
	T38S R17E R18E S25 S30 1957	

East Boundary of T1 38 S., R. 17 E.

Chains

from which

A pinion, 8 ins. diam., bears S. 72° 30' E., 28 lks. dist., mkd. ¼ S30 BT.

A juniper, 14 ins. diam., bears N. 84° 15' W., 20 lks. dist., mkd. ¼ S25 BT.

Over gently rolling land; asc. 20 ft.

56.30 Spur, projects W.; desc. 40 ft.

80.00 Point for the cor. of secs. 19, 24, 25 and 30.

Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

T38S
R17E R18E
S24|S19
S25|S30
1957.

Deposit charcoal at the base of the post.

Land, gently rolling desert.
Soil, sandy clay.
Timber, dense juniper and pinion.
Undergrowth, scant sagebrush, grass and weeds.

North, bet. secs. 19 and 24.

Over gently rolling desert land, through dense timber and scant undergrowth; desc. 35 ft. over N. slope.

9.50 S. rim of draw, E. and W.; desc. 140 ft..

17.30 Bottom of draw, drains W.; asc. 140 ft..

40.00 Point for the ¼ sec. cor. of secs. 19 and 24.

Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a large mound of stone, with brass cap mkd.

T38S
R17E R18E
¼
S24|S19
1957.

Asc. 43 ft. over a gentle S. slope.

56.00 Spur, projects E.; desc. 60 ft. over a N. slope.

79.65 Point for the witness cor. of secs. 13, 18, 19 and 24.

Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.

T38S
R17E R18E
S13|S18
S24|S19
W C
1957.

East Boundary of T. 38 S., R. 17 E.

Chains	meters
80.00	True point for the cor. of secs. 13, 18, 19 and 24 falls on the N. face of a steep sandstone ledge where the cor. cannot be perpetuated.
	Land, rolling desert. Soil, sandy clay, with some exposed sandstone. Timber, dense juniper and pinion, of no commercial value. Undergrowth, scattered sagebrush, grass and weeds.
	North, bet. secs. 13 and 18.
	Over broken ledges, through dense timber and scant undergrowth.
0.10	S. rim of canyon, bears E. and W., thence across canyon by triangulation.
10.00	Approx. bottom of canyon, drains W.
22.80	N. rim of canyon, bears E. and W.; asc. S. slope.
40.00	Point for the $\frac{1}{4}$ sec. cor. of secs. 13 and 18.
	Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 10 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd.
	T38S R17E R18E $\frac{1}{4}$ S13 S18 1957
	Deposit a sandstone, 4x4x2 ins., mkd. with a cross (X) at the base of the post.
	Asc. 110 ft. over a gentle S. slope.
79.50	Spur, projects W.
80.00	Point for the cor. of secs. 7, 12, 13 and 18.
	Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 6 ins. in the ground to solid rock, and in a mound of stone, with brass cap mkd.
	T38S R17E R18E S12 S 7 S13 S18 1957
	Deposit a sandstone, 5x3x3 ins., mkd. with a cross (X) at the base of the post.
	Land, broken and rolling desert. Soil, sandy clay with exposed sandstone. Timber, dense juniper and pinion, of no commercial value. Undergrowth, scant sagebrush, wild apple, mountain rush and grass.
	North, bet. secs. 7 and 12.
	Over gently rolling desert land, through dense timber and scant undergrowth; desc. 45 ft. over a N. slope.
22.00	Draw, drains W.; asc. 65 ft. over a S. slope.
40.00	Point for the $\frac{1}{4}$ sec. cor. of secs. 7 and 12.

East Boundary of T. 38 S., R. 17 E.

<p>Chain</p> <p>41.70</p> <p>79.50</p>	<p>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a large mound of stone, with brass cap mkd.</p> <p style="text-align: center;">T38S R17E R18E S12 S 7 1957</p> <p>Spur, projects W.; desc. 95 ft. over a broken N. slope.</p> <p>Point for the witness cor. of secs. 1, 6, 7 and 12.</p>
<p>80.00</p>	<p>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.</p> <p style="text-align: center;">W C T38S R17E R18E S 1 S 6 S12 S 7 1957</p> <p>True point for the cor. of secs. 1, 6, 7 and 12 falls on a sandstone boulder where the cor. cannot be perpetuated.</p> <p>Land, slightly broken and rolling desert. Soil, sandy clay with exposed sandstone. Timber, dense juniper and pinion, of no commercial value. Undergrowth, scattered sagebrush, silverleaf, yellow top, scant grass and weeds.</p>
<p>26.77</p>	<p>North, bet. secs. 1 and 6.</p> <p>Over gently rolling desert land, through dense timber and scant undergrowth; desc. 56 ft. over a gentle NW. slope.</p>
<p>40.00</p>	<p>Pine Canyon, seep of good water drains S. 30° W.; asc. 95 ft. over S. slope.</p> <p>On a sandstone spur projecting S.</p>
<p>80.00</p>	<p>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a large mound of stone, with brass cap mkd.</p> <p style="text-align: center;">T38S R17E R18E S 1 S 6 1957</p> <p>Asc. 85 ft. over a gentle S. slope.</p> <p>Point for the cor. of T. 37 and 38 S., Rs. 17 and 18 E.</p>
	<p>Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid rock, and in a mound of stone, with brass cap mkd.</p> <p style="text-align: center;">T37S R17E R18E S36 S31 S 1 S 6 T38S 1957</p>

Chains	<p>Deposit a sandstone, 5 1/2 ins. mkd. with a corner set at the base of the post.</p> <p>Land, slightly broken and rolling. Soil, sandy clay with some exposed sandstone. Timber, dense juniper and pinion, of no commercial value. Undergrowth, thinly scattered sagebrush, silverleaf, apple brush, yellow top, grass and weeds.</p>	01.15
	<p>Independent Resurvey of the N. Bdy. of T. 38 S. & R. 17 E.</p>	17 01.07
	<p>Superseding the survey made by A. B. Ferron in 1884. No trace of the original corners was found.</p> <p>From the cor. of Ts. 37 and 38 S., Rs. 17 and 18 E., mkd. by an iron post, 2 1/2 ins. diam., set, mkd. and witnessed as described in the record of the concurrent survey of T. 38 S., R. 18 E.</p> <p>N. 89° 58' W., bet. secs. 1 and 36.</p> <p>Over rolling, broken land, through heavy timber.</p> <p>Asc. 20 ft. over E. slope.</p>	00.02
12.30	Top of ascent on steep point; desc. 70 ft. over general W. slope.	
40.00	<p>Point for the 1/2 sec. cor. of secs. 1 and 36.</p> <p>Set an iron post, 30 ins. long, 2 1/2 in. s. diam., 20 ins. in the ground, and in a mound of earth with pits on each side, with brass cap mkd.</p> <p style="text-align: center;">T37S R17E S36 S 1 T38S 1957</p> <p>Desc. 30 ft. over general W. slope.</p>	00.02
66.25	Old Mormon trail, bears N. 20° E. and S. 20° W.	00.02
67.10	Top of ascent on rise, bears N. and S.; desc. 50 ft. over W. slope.	
80.00	<p>Point for the cor. of secs. 1, 2, 35 and 36.</p> <p>Set an iron post, 30 ins. long, 2 1/2 ins. diam., 10 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd.</p> <p style="text-align: center;">T37S R17E S35 S36 S 2 T38S 1957</p> <p>Land, rolling to broken with some exposed sandstone surfaces. Soil, sandy. Timber, heavy juniper and pinion. Undergrowth, scattered black brush and some grass.</p>	00.02

In Independent Resurvey of the N. Bdy., T. 38 S., R. 17 E.

Chains

N. 89° 58' W., bet. secs. 2 and 35.

Over rolling land, through heavy timber.

Desc. 50 ft. over W. slope.

13.40 Top of sandstone rim, facing NW., bears N. 10° E. and S. 10° W., approx. 120 ft. high; desc. another 30 ft.

Thence by triangulation.

40.00 Point for the 1/4 sec. cor. of secs. 2 and 35.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 18 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T37S R17E
1/4 S35
S 2
T38S
1957

Desc. 80 ft. over W. slope.

52.10 Wash in bottom of Step Canyon, bears S. 20° W.

Asc. 80 ft. over ledges on SE. slope.

80.00 Point for the cor. of secs. 2, 3, 34 and 35.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 6 ins. in the ground, and in a mound of stone to top, with a 4 ft. base, with brass cap mkd.

T37S R17E
S34 | S35
S 3 | S 2
1957

Land, broken.
Soil, sandy.
Timber, heavy juniper and pinion.
Undergrowth, scattered sage, silverleaf and cacti.

N. 89° 58' W., bet. secs. 3 and 34.

Asc. 10 ft. over SE. slope, through heavy timber.

8.40 Spur, sloping S. 30° W.; desc. 170 ft. over ledges on NW. slope.

40.00 Point for the 1/4 sec. cor. of secs. 3 and 34.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 10 ins. in the ground, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T37S R17E
1/4 S34
S 3
T38S
1957

Desc. 50 ft. over NW. slope.

51.00 Wash, in the bottom of Dripping Canyon, 1.50 chs. wide, 3 ft. deep, course SW.; asc. 30 ft. over SE. slope.

Independent Resurvey of the N. 1/4 Sec. 3, T. 28 S., R. 17 E.

Chain
 55.50 Spur, sloping SW.; desc. 30 ft. over NW. slope.
 68.50 Wash, 70 lks. wide, 3 ft. deep, course S. 10° W.; asc. 60 ft. over SE. slope.
 80.00 Point for the cor. of secs. 3, 4, 33 and 34.
 Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on sandstone to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T378 R17E
 S33|S34
 S 4|S 3
 T38S
 1957

Land, rolling to broken with some exposed sandstone surface.
 Soil, sandy.
 Timber, heavy juniper and pinion.
 Undergrowth, scattered sage, silverleaf and cacti.

N. 89° 58' W., bet. secs. 4 and 33.
 Over rolling land, through moderate timber.
 Asc. 55 ft. over SE. slope.
 17.80 Top of ascent; desc. 105 ft. over NW. slope.
 40.00 Point for the ¼ sec. cor. of secs. 4 and 33.
 Set an iron post, 30 ins. long, 2½ ins. diam., 5 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T378 R17E
 ¼ S33
 S 4
 T38S
 1957

Desc. 75 ft. over NW. slope.
 53.60 Wash, in Cow Tank, 1.50 chs. wide, 5 ft. deep, course S., thence over rolling land; asc. 115 ft. over a general E. slope.
 80.00 Point for the cor. of secs. 4, 5, 32 and 33.
 Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground, and in a mound of earth to top, with pits on each side, with brass cap mkd.

T378 R17E
 S32|S33
 S 5|S 4
 T38S
 1957

Land, rolling.
 Soil, sandy.
 Timber, moderate juniper and pinion.
 Undergrowth, moderate sage, silverleaf and cacti.

Independent Resurvey of the N. Bdy., T. 38 S., R. 17 E.

Chains	
	<p>N. 89° 58' W., bet. secs. 5 and 32.</p> <p>Over rolling land, through moderate timber.</p> <p>Desc. 175 ft. over W. slope.</p>
40.00	<p>Point for the $\frac{1}{4}$ sec. cor. of secs. 5 and 32.</p>
60.00	<p>Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.</p>
	<p style="text-align: center;">T37S R17E $\frac{1}{4}$ $\frac{S32}{S 5}$ T38S 1957</p>
40.30	<p>E. edge of Steer Gulch, bears NE. and SW.; desc. 80 ft.</p>
49.00	<p>Steer Gulch, drains SW.</p>
56.50	<p>Branch of Steer Gulch, drains SW.; asc. 80 ft.</p>
61.65	<p>W. edge of shallow canyon, bears NE. and SW.; asc. 30 ft. over a general S. slope.</p>
80.00	<p>Point for the cor. of secs. 5, 6, 31 and 32.</p>
	<p>Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd.</p>
	<p style="text-align: center;">T37S R17E $\frac{S31}{S 6} \frac{S32}{S 5}$ T38S 1957</p>
	<p>Land, rolling and broken. Soil, sandy. Timber, moderate juniper and pinion. Undergrowth, moderate sage, silverleaf and cacti.</p>
	<p>N. 89° 58' W., bet. secs. 6 and 31.</p> <p>Over rolling land, through scattered timber.</p>
39.75	<p>Dirt road, bears NE. and SW.</p>
40.00	<p>Point for the $\frac{1}{4}$ sec. cor. of secs. 6 and 31.</p>
	<p>Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of stone, 2 ft. base to top, with brass cap mkd.</p>
	<p style="text-align: center;">T37S R17E $\frac{1}{4}$ $\frac{S31}{S 6}$ T38S 1957</p>
77.00	<p>Base of broken slope, bears NE. and SW.; asc. 75 ft. over SE. slope.</p>
84.51	<p>The cor. of Ts. 37 and 38 S., Rs. 16 and 17 E., an iron post, 3 ins. diam., set, mkd. and witnessed as described in the official record.</p>

Independent Resurvey of the North Bdy., T. 38 S., R. 17 E.

Chains	<p>Land, rolling. Soil, sandy. Timber, scattered juniper and pinion. Undergrowth, moderate sage and some catti.</p>
	<p>Survey of a Portion of the Subdivision, T. 38 S., R. 17 E.</p>
	<p>From the true point for the cor. of secs. 1, 2, 35 and 36 on the S. bdy. N. 0° 01' W., bet. secs. 35 and 36. Over broken N. wall of Bullet Canyon; asc. about 300 ft.</p>
7.00	Crest of N. rim of Bullet Canyon, bears N. 70° W. and S. 70° E.; asc. 65 ft. over rolling S. slope, through dense timber.
36.60	Top of ascent, bears E. and W.; desc. 5 ft. over rolling N. slope.
40.00	Point for the $\frac{1}{4}$ sec. cor. of secs. 35 and 36. Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 20 ins. in the ground, and in a collar of stone, with brass cap mkd.
	<p>T38S R17E $\frac{1}{4}$ S35 S36 1957</p>
	Desc. 5 ft. over gentle N. slope.
47.40	Wash, 20 lks. wide, 3 ft. deep, drains W. irregularly; asc. 25 ft. over rolling S. slope.
60.70	Top of ascent, bears E. and W.; desc. 40 ft. over rolling N. slope.
80.00	Point for the cor. of secs. 25, 26, 35 and 36. Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 15 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.
	<p>T38S R17E S26 S25 S35 S36 1957</p>
	<p>Land, broken and rolling. Soil, sand and exposed sandstone. Timber, dense growth of juniper and pinion on slopes.</p>
	<p>From the cor. of secs. 25, 30, 31 and 36 on the E. bdy., an iron post $2\frac{1}{2}$ ins. diam., previously described. N. 89° 59' W., bet. secs. 25 and 36. Over rolling land of reseeded area; asc. 25 ft. along N. slope.</p>
23.50	Top of ascent, bears N. and S.; leave reseeded area, enter dense timber, thence over nearly level land with gentle N. slope.
39.98	Point for the $\frac{1}{4}$ sec. cor. of secs. 25 and 36.

Portion of the Subdivision, T. 38 S., R. 17 E.

Chains

Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a collar of stone, with brass cap mkd.

T38S R17E

¼ $\frac{S25}{S36}$

1957

Desc. 45 ft. along rolling N. slope.

66.20 Small wash, drains N.; desc. 20 ft. over rolling N. slope.

79.96 The cor. of secs. 25, 26, 35 and 36.

Land, rolling N. slope.

Soil, sandy clay.

Timber, dense growth of juniper and pinion, scattered grass and brush on reseeded area.

From the cor. of secs. 3, 4, 33 and 34 on the S. bdy. of the township, an iron post, 2 ins. diam., conforming to the record.

N. 0° 02' W., bet. secs. 33 and 34.

Over rolling land, through dense timber, general drainage NE.

Desc. 75 ft. along rolling W. slope.

14.00 Slope changes to N.

35.35 Point selected for the witness ¼ sec. cor. of secs. 33 and 34.

Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on sandstone surface, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.

T38S R17E

W C

¼ $\frac{S33}{S34}$

1957

General drainage changes to NW.

35.50 S. rim of Bullet Canyon, with vertical ledge approx. 70 ft. high, facing NE., bears N. 40° W. and S. 40° E.

Thence by triangulation; desc. 200 ft.

40.00 True point for the ¼ sec. cor. of secs. 33 and 34 falls at base of ledge in bottom of Bullet Canyon, bears N. 40° W. and S. 40° E., where it is impractical to set the monument.

53.00 Wash channel in bottom of canyon, course N. 40° W.; asc. 200 ft.

63.00 W. edge of spur, from S. 80° E., bet. forks of canyon; desc. 250 ft.

73.00 Wash channel in bottom of canyon, course S. 70° W.; asc. 250 ft.

80.00 True point for the cor. of secs. 27, 28, 33 and 34 falls on broken ledges facing S., on N. side of canyon, where it is impractical to set the monument.

Land, rolling to broken.

Soil, sandy and rocky.

Timber, dense pinion and juniper.

Undergrowth, moderate bitter brush, yellow top, sage and some cacti.

Chains

- N. 0° 02' W., bet. secs. 27 and 28.
Over broken land, through canyon.
By triangulation.
- 9.50 N. rim of canyon, with broken ledges, facing S., bears SW. and SE.
Thence by chaining, over rolling land.
- 9.63 Point selected for the witness cor. of secs. 27, 28, 33 and 34.
Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on sandstone surface, and in a mound of stone, 4 ft. base to top, with brass cap mkd.
- T38S R17E
S28|S27
S33|S34
W C
1957
- Asc. 90 ft. over a general S. slope, through moderate timber.
- 22.40 Top of ascent on spur, sloping W.; desc. 25 ft. over NW. slope.
- 34.85 Small wash, course NW.
- 40.00 Point for the ¼ sec. cor. of secs. 27 and 28.
Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.
- T38S R17E
¼
S28|S27
1957
- 40.40 Small wash, course W.; asc. 10 ft. over gentle SW. slope.
- 51.50 Top of ascent on rise, bears NW. and SE.; desc. 260 ft. over N. slope.
- 80.00 Point for the cor. of secs. 21, 22, 27 and 28.
Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground to bedrock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.
- T38S R17E
S21|S22
S28|S27
1957
- Land, broken to rolling.
Soil, sandy, rocky.
Timber, moderate to scattered pinion and juniper.
Undergrowth, moderate to scattered bitter brush, yellow top, sage and some apple brush.
-
- N. 0° 02' W., bet. secs. 21 and 22.
Over broken land, general drainage SW.
By triangulation; asc. 50 ft. over S. slope.
- 8.00 Spur, projecting W., approx. 15 chs.; desc. 100 ft. over N. slope.

Partion of the Subdivision, T. 38 S., R. 17 E.

Chains

20.00

Wash channel in bottom of canyon, course S. 70° W.; asc. broken S. slope.

38.00

N. rim of canyon, with broken ledges, facing SE., bears N. 70° E. and S. 70° W.

Thence by chaining.

40.00

Point for the 1/4 sec. cor. of secs. 21 and 22.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., over a cross (X) on sandstone surface, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T38S R17E

1/4
S21|S22
1957

Asc. 90 ft. over rolling S. slope, through dense timber.

74.50

Top of ascent; desc. 20 ft. over N. slope.

80.00

Point for the cor. of secs. 15, 16, 21 and 22.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 3 1/2 ft. base to top, with brass cap mkd.

T38S R17E

S16|S15
S21|S22
1957

Land, broken to rolling.

Soil, sandy and rocky.

Timber, scattered to dense pinion and juniper.

Undergrowth, moderate sage, bitter brush and yellow top.

N. 0° 02' W., bet. secs. 15 and 16.

Over rolling to broken land, through moderate timber, general drainage SW.

Desc. 255 ft. over N. slope.

28.50

S. rim of canyon with broken ledges, facing NW., bears S. 10° W. and N. 20° E.

36.17

Point selected for the witness 1/4 sec. cor. of secs. 15 and 16.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., over a cross (X) on sandstone surface, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T38S R17E

W C

1/4
S16|S15
1957

Thence by triangulation; desc. 150 ft. over broken S. slope of canyon.

37.00

Wash channel in bottom of canyon, course S. 40° W. from E.

Portion of the Subdivision, T. 38 S., R. 17 E.

Chains	
40.00	True point for the $\frac{1}{4}$ sec. cor. of secs. 15 and 16, falls at base of ledge on N. side of canyon where it is impractical to set the monument. Asc. 150 ft. over broken ledges facing SE.
50.00	N. rim of canyon with broken ledges facing SE., bears N. 75° E. and S. 70° W.; asc. 40 ft. over S. slope, through heavy timber.
70.30	Spur, sloping S. 40° W. Thence by chaining; desc. 65 ft. over N. slope.
80.00	Point for the cor. of secs. 9, 10, 15 and 16. Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.
<p>T38S R17E S 9 S10 S16 S15 1957</p>	
<p>Land, rolling to broken. Soil, sandy and rocky. Timber, moderate to heavy pinion and juniper. Undergrowth, moderate bitter brush, sage, some yellow top and cacti.</p>	
<p>N. 0° 02' W., bet. secs. 9 and 10. Over broken land, through dense timber, general drainage SW. By triangulation; desc. 35 ft. over N. slope.</p>	
15.00	S. rim of Step Canyon, with broken vertical ledge, facing N., bears E. and W.; desc. 100 ft.
16.00	Wash channel in bottom of canyon, course N. 85° W.; heads approx. 15 chs. S. 85° E.; asc. 100 ft.
20.00	W. edge of spur, from E.; desc. 150 ft. over NW. slope.
25.00	Wash channel in bottom of canyon, course S. 30° W.; asc. 150 ft. over broken ledges on S. slope.
39.90	N. rim of canyon with broken ledges facing SE., bears N. 80° E. and S. 80° W. Thence by chaining.
40.00	Point for the $\frac{1}{4}$ sec. cor. of secs. 9 and 10. Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on sandstone surface, and in a mound of stone, 4 ft. base to top, with brass cap mkd.
<p>T38S R17E S 9 S10 1957</p>	
<p>Asc. 150 ft. over S. slope, through heavy timber.</p>	
63.90	Top of ascent on spur, sloping S. 40° W.; desc. 50 ft. over NW. slope.
80.00	Point for the cor. of secs. 3, 4, 9 and 10.

Portion of the Subdivision, T. 38 S., R. 17 E.

Chains

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 4 ins. in the ground, to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T38S R17E

S 4 | S 3
S 9 | S10

1957

Land, broken to rolling.
Soil, sandy and rocky with some exposed sandstone surface.
Timber, heavy pinion and juniper.
Undergrowth, moderate to scattered bitter brush and yellow top.

N. 0° 11' W., bet. secs. 3 and 4.

Over rolling to broken land, through heavy timber.

Desc. 125 ft. over NW. slope.

40.00 Point for the 1/4 sec. cor. of secs. 3 and 4.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T38S R17E

1/4
S 4 | S 3
1957

44.30 Top of sandstone knoll, bears W., 3 chs. dist.

Thence by triangulation, through heavy timber.

65.00 Wash in Dripping Canyon, course W.

79.92 The cor. of secs. 3, 4, 33 and 34 on the N. bdy. of the township.

Land, rolling to broken.

Soil, sandy.

Timber, dense pinion and juniper.

Undergrowth, moderate bitter brush, yellow top, some apple brush and cacti.

From the cor. of secs. 1, 2, 35 and 36 on the N. bdy. of the township.

S. 0° 01' E., bet. secs. 1 and 2.

Over nearly level land, through dense timber.

9.50 Mormon Trail, bears N. 30° E. and S. 30° W.

15.50 Leave nearly level land; desc. 145 ft. over S. slope.

34.65 Wash, 30 lks. wide, 4 ft. deep, course W.; asc. 10 ft. over N. slope.

39.98 Point for the 1/4 sec. cor. of secs. 1 and 2.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., over a cross (X) on sandstone to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

Portion of the Subdivision T. 38 S., R. 17 E.

Chains

T38S R17E

S 2 | S 1

1957

Continue to asc. 75 ft. over N. slope.

79.98

Point for the cor. of secs. 1, 2, 11 and 12.

Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T38S R17E

S 2 | S 1

S11 | S12

1957

Land, rolling.

Soil, sandy.

Timber, dense pinion and juniper.

Undergrowth, moderate bitter brush, yellow top, apple brush.

N. 89° 57' W., bet. secs. 2 and 11.

Over rolling land, through dense timber.

Desc. 140 ft. over NW. slope.

40.00

Point for the ¼ sec. cor. of secs. 2 and 11.

Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on sandstone surface, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T38S R17E

¼ S 2

S11

1957

Continue to desc. 20 ft. over NW. slope.

43.20

Small wash, course SW.; asc. 50 ft. over E. slope.

79.10

Point selected for the witness cor. of secs. 2, 3, 10 and 11.

Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on sandstone surface, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T38S R17E

W S 3 | S 2

C S10 | S11

1957

79.20

Rim of canyon with broken ledges facing NW., bears N. 80° E. and W.

80.00

True point for the cor. of secs. 2, 3, 10 and 11 falls on broken ledges facing NW., on E. side of canyon where it is impractical to set the monument.

Land, rolling.

Soil, sandy with some exposed sandstone surface.

Timber, dense pinion and juniper.

Undergrowth, moderate bitter brush, yellow top and apple brush.

Section of the Subdivision, T. 38 S., R. 17 E.

Chains

N. 0° 04' E., bet. secs. 2 and 3.

From the true point for the cor. of secs. 2, 3, 10 and 11, over rough, broken land; by triangulation.

10.00

Wash, course SW.

19.00

Same wash, course SE.

24.50

Same wash, course SW.

23.00

NW rim of canyon, bears E. and W., with broken vertical ledge, facing S., approx. 75 ft. high; asc. 50 ft. over S. slope.

40.00

Point for the 1/4 sec. cor. of secs. 2 and 3.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 15 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T38S R17E

1/4 S 3 | S 2 1957

Thence by chaining.

Asc. 80 ft. over a broken, general S. slope.

80.00

The cor. of secs. 2, 3, 34 and 35 on the N. bdy. of the township.

Land, rough, broken.

Soil, sandy.

Timber, scattered pinion and juniper, N. 1/2 mile;

Undergrowth, scattered sage, bitter brush.

From the cor. of secs. 15, 16, 21 and 22.

N. 89° 57' W., bet. secs. 16 and 21.

Over rolling land, through dense timber.

Desc. 70 ft. along N. slope.

36.00

Leave timber, bears N. and S.

40.00

Point for the 1/4 sec. cor. of secs. 16 and 21.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.

T38S R17E

1/4 S16 S21 1957

Continue to desc. 205 ft. along N. slope.

48.10

Enter timber, bears N. and S.

75.40

S. rim of ledge, facing NW., bears N. 60° E. and S. 60° W.

80.00

Point for the cor. of secs. 16, 17, 20 and 21.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., over a cross (X) on sandstone surface, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

Chains	<p>T38S R17E S17 S16 S20 S21 1957</p>	C'Dist
	<p>Corner is located on sandstone shelf, approx. 100 ft. above bottom of wash, course SW.</p> <p>Land, rolling. Soil, sandy. Timber, dense pinion and juniper. Undergrowth, moderate to scattered bitter brush, yellow top, sage.</p>	00.00
	<p>N. 0° 03' W., bet. secs. 16 and 17.</p> <p>Over broken land.</p> <p>By triangulation.</p> <p>Rim of canyon, with broken ledges, facing NW., bears NE. and SW.; desc. 100 ft.</p>	00.00
2.00	Small wash, course S. 60° W.; asc. 125 ft.	
15.00	Spur, projecting W.; desc. 150 ft.	
20.00	Wash in bottom of canyon, course SW.; asc. 150 ft. over broken SE slope.	
34.60	N. rim of canyon, with broken ledges, facing SE., bears N. 60° E. and S. 60° W.	
40.00	Point for the 1/4 sec. cor. of secs. 16 and 17.	
	<p>Set an iron post, 30 ins. long, 2 1/2 ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 3 1/2 ft. base to top, with brass cap mkd.</p> <p>T38S R17E S17 S16 1957</p>	
80.00	<p>Asc. 125 ft. over gentle S. slope, through dense timber.</p> <p>Point for the cor. of secs. 8, 9, 16 and 17.</p> <p>Set an iron post, 30 ins. long, 2 1/2 ins. diam., 8 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.</p> <p>T38S R17E S8 S9 S17 S16 1957</p>	
	<p>Land, broken to rolling. Soil, sandy and rocky with some exposed sandstone surface. Timber, dense pinion and juniper, N. 1/2 mile. Undergrowth, moderate to scattered bitter brush, yellow top, sage.</p>	00.00

Portion of the Subdivision, T. 38 S., R. 17 E.

Chains

From the cor. of secs. 9, 10, 15 and 16.

N. 89° 58' W., bet. secs. 9 and 16.

Over broken land.

Desc. 30 ft. along N. slope.

13.85 Thence by triangulation.

34.85 E. rim of Step Canyon with broken ledges facing W., bears N. and S.

39.93 True point for the $\frac{1}{4}$ sec. cor. of secs. 9 and 16 falls in canyon where it is impractical to set the monument.

42.00 Wash, drains SSE.

43.95 W. rim of canyon, with broken ledges, facing E., bears N. and S.

44.06 Point selected for the witness $\frac{1}{4}$ sec. cor. of secs. 9 and 16.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., over a cross (X) on sandstone surface, and in a mound of stone, $3\frac{1}{2}$ ft. base to top, with brass cap mkd.

T38S R17E

$\frac{1}{4}$ $\frac{S\ 9}{S16}$ W
C
1957

Thence by chaining; asc. 215 ft. over gentle E. slope.

76.65 Top of ascent on spur, sloping S.; desc. 10 ft. over SW. slope, through dense timber.

79.86 The cor. of secs. 8, 9, 16 and 17.

Land, broken to rolling.

Soil, sandy and rocky.

Timber, moderate to heavy pinion and juniper.

Undergrowth, moderate to scattered bitter brush, yellow top, sage.

From the cor. of secs. 4, 5, 32 and 33 on the S. bdy. of the township.

N. 0° 03' W., bet. secs. 32 and 33.

Over rolling land, through dense timber.

Asc. 15 ft. over slight S. slope.

5.70 Top of ascent on rise, bears E. and W.; desc. 30 ft. over slight N. slope.

24.10 Dim road, bears E. and W.

34.20 Wash, 15 lks. wide, 3 ft. deep, course S. 30° W.; asc. 30 ft. over gentle S. slope.

40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 32 and 33.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 5 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

Chains	Meters
	<p style="text-align: center;">T38S R17E $\frac{1}{4}$ S32 S33 1957</p> <p>Continue to asc. 20 ft. over gentle S. slope,</p>
46.60	Top of ascent on rise, bears E. and W.; desc. 55 ft. over rolling N. slope.
80.00	Point for the cor. of secs. 28, 29, 32 and 33.
	<p>Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground and in a mound of stone, 3 ft. base to top, with brass cap mkd.</p> <p style="text-align: center;">T38S R17E S29 S28 S32 S33 1957</p> <p>Land, rolling. Soil, sandy and sandy loam. Timber, dense to moderate pinion and juniper. Undergrowth, moderate to scattered yellow brush, sage and apple brush.</p>
	<p>From the true point for the cor. of secs. 5, 6, 31 and 32 on the S. bdy. of the township, or S. 89° 57' E., 9.29 chs. from the witness cor. of secs. 5, 6, 31 and 32.</p> <p>N. 0° 03' W., bet. secs. 31 and 32.</p> <p>Over broken land, by traverse and triangulation.</p>
10.00	N. rim of canyon, with vertical ledge, approx. 30 ft. high, facing S bears E. and W.
	Asc. 45 ft. over broken S. slope.
40.00	Point for the ¼ sec. cor. of secs. 31 and 32.
	<p>Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground, and in a mound of stone, 4 ft. base to top, with brass cap mkd.</p> <p style="text-align: center;">T38S R17E $\frac{1}{4}$ S31 S32 1957</p> <p>Corner is located on S. bank of small canyon, facing N., bears E. and W.</p> <p>Thence by chaining; desc. 90 ft.</p>
40.70	Wash channel in bottom of small canyon, course W., heads approx. 3 chs. E.; asc. 105 ft. over abrupt S. sandstone slope.
42.50	Top of sandstone slope, bears E. and W.; continue to asc. 60 ft. over a general S. slope, with scattered exposed sandstone surface and scattered timber.
80.00	Point for the cor. of secs. 29, 30, 31 and 32.
	<p>Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a collar of stone, with brass cap mkd.</p>

Portion of the Subdivision, T. 38 S., R. 17 E.

Chains

T38S R17E
 S30|S29
 S31|S32
 1957

Land, broken to rolling.
 Soil, sandy, with exposed sandstone surface.
 Timber, scattered pinion and juniper.
 Undergrowth, scattered bitter brush, yellow top, sage.

From the cor. of secs. 28, 29, 32 and 33.

N. 89° 56' W., bet. secs. 29 and 32.

Over rolling land, through scattered timber.

By triangulation; desc. 50 ft. over SW. slope.

39.95 Point for the ¼ sec. cor. of secs. 29 and 32.

Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a collar of stone, with brass cap mkd.

T38S R17E
 ¼ — S29
 S32
 1957

Thence by chaining; asc. 20 ft. over rolling E. slope.

46.20 Top of ascent on spur, sloping SE.; desc. 70 ft. over rolling SW. slope.

79.90 The cor. of secs. 29, 30, 31 and 32.

Land, rolling.
 Soil, sandy, sandy loam.
 Timber, scattered pinion and juniper.
 Undergrowth, moderate to scattered bitter brush, sage.

GENERAL DESCRIPTION

The land in the township is mainly rolling desert bench land, known as Cedar Mesa. The township is cut by numerous steep sided and box canyons. The drainage is to the S. and W. into tributaries of the Colorado River. The soil is principally a sandy clay, with a considerable amount of broken and exposed sandstone. There is a dense growth of juniper and pinion over most of the township. The undergrowth is mainly sagebrush, with lesser amounts of silverleaf, black brush, bitter brush, yellow brush, grass and weeds. There are no permanent habitants in the township. A considerable amount of prospecting has been and to some extent is still being carried on in the area. The township is not accessible by motor vehicle.

Chains

Chains

1912

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1913

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CERTIFICATE OF CADASTRAL ENGINEER

I, Fred R. Chappel, HEREBY CERTIFY upon honor that
pursuance of special instructions bearing date of the 2nd day of April, 1958
I have surveyed the east boundary of Township 38 South, Range 17 East

of the Salt Lake Meridian, in the State of Utah, which
represented in the foregoing field notes as having been executed by me and under my direction; and t
said survey has been made in strict conformity with said instructions, the Manual of Instructions for
Survey of the Public Lands of the United States, and in the specific manner described in the forego
field notes.

April 15, 1958
Salt Lake City, Utah

Fred R. Chappell
Fred R. Chappell
Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., _____, 1958

The foregoing field notes of the survey of _____
executed by _____
having been critically examined and found correct, are hereby approved.

Cadastral Engineering Staff Officer

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____
is a true copy of the original field notes.

Cadastral Engineering Staff Officer

4-500
Feb. 1950

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Eldon W. Sibley	Principal Assistant
James E. Jepson	Flagman
William Romine	Axeman
John R. Koger	Chainman
Darwin P. Russell	Cornerman

CERTIFICATE OF CADASTRAL ENGINEER

I, Craig P. Sylvester, hereby certify upon honor and
pursuance of special instructions bearing date of the 2nd day of April

I have surveyed a portion of the subdivision of Township 38 South, Range 17 East

of the Salt Lake Meridian, in the State of Utah, which
represented in the foregoing field notes as having been executed by me and under my direction; and
said survey has been made in strict conformity with said instructions, the Manual of Instructions for
Survey of the Public Lands of the United States, and in the specific manner described in the foregoing
field notes.

April 15, 1958

Salt Lake City, Utah

Craig P. Sylvester
Craig P. Sylvester - Cartographic

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., _____, 19__

The foregoing field notes of the survey of _____
executed by _____
having been critically examined and found correct, are hereby approved.

Cadastral Engineering Staff Officer

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____
is a true copy of the original field notes.

Cadastral Engineering Staff Officer

CERTIFICATE OF CADASTRAL ENGINEER

I, Boyd S. Owens, HEREBY CERTIFY upon honor
pursuance of special instructions bearing date of the 2nd day of April
I have ~~surveyed~~ independently resurveyed the north boundary of Township 38 South
Range 17 East

of the Salt Lake Meridian, in the State of Utah, which
represented in the foregoing field notes as having been executed by me and under my direction; and t
said survey has been made in strict conformity with said instructions, the Manual of Instructions for
Survey of the Public Lands of the United States, and in the specific manner described in the foreg
field notes.

April 15, 1958
Salt Lake City, Utah

Boyd S. Owens
Boyd S. Owens - Cartographic Survey

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., _____, 19

The foregoing field notes of the survey of _____
executed by _____
having been critically examined and found correct, are hereby approved.

Cadastral Engineering Staff Officer

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____
_____, is a true copy of the original field notes.

Cadastral Engineering Staff Officer

CERTIFICATE OF CADASTRAL ENGINEER

I, Vern E. Lane, HEREBY CERTIFY upon honor the pursuance of special instructions bearing date of the 2nd day of April I have ~~personally~~ supervised the independent resurvey of the north boundary and the survey of the east boundary and a portion of the subdivision of Township 38 South, Range 17 East

of the Salt Lake Meridian, in the State of Utah, which is represented in the foregoing field notes as having been executed ~~by the said surveyor~~ under my supervision; and the said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

April 15, 1958
Salt Lake City, Utah

Vern E. Lane
Vern E. Lane - Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., JUN 17 1958, 19

The foregoing field notes of the ~~survey of~~ independent resurvey of the north boundary and the survey of the east boundary and a portion of the subdivision of Township 38 South, Range 17 East, Salt Lake Meridian, Utah

executed by Fred R. Chappell, Boyd S. Owens, Craig P. Sylvester, under the supervision of Vern E. Lane having been critically examined and found correct, are hereby approved.

Earl G. Harrington
Cadastral Engineering Staff Officer

CERTIFICATE OF TRANSCRIPT

~~I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____, is a true copy of the original field notes.~~

~~Cadastral Engineering Staff Officer~~

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Original

FIELD NOTES

of the Independent Resurvey

of the

North Boundary

and the Survey of

A Portion of the

Subdivision

of

Township 38 South, Range 18 East

Of the Salt Lake Meridian,

the State of Utah

EXECUTED BY

Vern E. Lane

Cadastral Surveyor (Chief of Party)

Ronald A. Cannon

Cartographic Survey Aid

Roll Casler

Cadastral Surveyor

Phil D. Smith

Cadastral Surveyor

Under special instructions dated April 2, 1957, which provided

for the surveys included under Group No. 406, approved April 10, 1957

and assignment instructions dated June 14, 1957

Survey commenced June 26, 1957

Survey completed August 5, 1957

INDEX DIAGRAM

Township 38 South, Range 18 East

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16-66770-1

Dell Cazier _____
 Donald A. Cannon _____
 Phil D. Smith _____

Township 38 South, Range 18 East

Chains

The south boundary of Township 38 South, Range 18 East of the Salt Lake Meridian, Utah, was surveyed in 1928 by Walter H. Good and Robert C. Yundt. The east boundary was surveyed by Robert C. Yundt in 1930. The north boundary was surveyed by A. D. Ferron in 1884 and is being abandoned. The west boundary was surveyed concurrently under the same group and the record appears in the field notes of T. 38 S., R. 17 E. The following field notes are those of an independent resurvey of the north boundary and the survey of that part of the subdivision considered sufficient in extent, to mark the boundaries of those sections normally considered as State school land, and to facilitate the development of the natural resources. The corners along the latitudinal lines were established at the true latitudinal curve and all corners of the subdivision are established at points calculated to be in the same position they would occupy if the township had been completely subdivided.

The survey was executed with W. and L.E. Gurley transits, serial numbers 541321, 541326 and 541325, all being the property of the Bureau of Land Management, and constructed in accordance with their standard specifications. The horizontal plate has two double verniers placed opposite to each other, and the vertical circle has one double vernier. The horizontal verniers of the transits are graduated to 30 minutes of arc. All other verniers of the transits and the solar attachments are graduated to single minutes of arc. The instruments were in good adjustment, and prior to the beginning of the field work they were examined and all errors eliminated. They were maintained in good adjustment during the survey.

The geographic position of the southeast corner of the township, determined through section line ties made to U.S. Coast and Geodetic survey station "Bridges" in Township 37 South, Range 17 East is as follows: Latitude 37° 25' 56.27" N. and Longitude 109° 52' 26.83" W. The mean magnetic declination was found to be 15° E.

The direction of the lines of the survey were determined by reference to true meridians established on line by hour angle observations on Polaris or altitude observations on the sun. The lines were carried forward as transit lines and checked by succeeding observations.

The measurements were made with steel ribbon tapes, 8 chains in length. These tapes are graduated every link for the first chain and thereafter at intervals of 10 links. They were tested by comparison with a Lufkin standard steel tape, 1 chain in length and found to be correct. The measurements were made on the slope, the vertical angle of each interval determined by the use of clinometers, and the slope distances properly reduced to horizontal equivalents, which appear in these notes. In most cases the distances were determined by chaining, but in some instances they were obtained by triangulation and in others by traverses and offsets. The details of these were thoroughly verified and only the true line distances returned in the notes.

Independent Resurvey of the N. Bdy., T. 38 S., R. 18 E.

Superseding the survey made by A. D. Ferron in 1884. No trace of the original corners was found.

Beginning at the cor. of Ts. 37 and 38 S., Rs. 18 and 19 E., monumented by an iron post, 3 ins. diam., set, mkd. and witnessed as described in the official record.

Independent Resurvey of
North Boundary, T. 38 S., R. 18 E.

Chains

1000

N. 89° 46' W., bet. secs. 1 and 36.

Over gently rolling land, through dense timber; asc. 10 ft. over E. slope.

10.60 Ridge, bears NE. and SW.; desc. 10 ft. over W. slope.

20.70 Road, unimproved, bears NE. and SW.; desc. 120 ft. over rolling W. slope.

40.00 Point for the $\frac{1}{2}$ sec. cor. of secs. 1 and 36.

Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., 20 ins. in the ground and in a mound of stone, 2 ft. base to top, with brass cap mkd.

T37S R18E

$\frac{1}{2}$ S36

S 1

T38S

1957

40:20 Wash, 20 lks. wide, 3 ft. deep, course S. 70° W., 2 chs. to junction with wash from the SE.

42.00 Wash, course NW.; desc. 20 ft. along N. slope.

80.00 Point for the cor. of secs. 1, 2, 35 and 36.

Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 2 $\frac{1}{2}$ ft. base to top, with brass cap mkd.

T37S R18E

S35 | S36

S 2 | S 1

T38S

1957

Land, rolling.

Soil, sand and clay.

Timber, dense juniper and pinion.

N. 89° 46' W., bet. secs. 2 and 35.

Over rolling land, through dense juniper.

1.40 Low spur from ridge, projects N. 45° W.; desc. over SW. slope.

9.30 Road, improved, Mexican Hat-Bear's Ears Junction, bears N. 10° W. and S. 10° E.; desc. 20 ft. along S. slope.

36.20 Spur, slopes sharply SW.; desc. 20 ft. over SW. slope.

40.00 Point for the $\frac{1}{2}$ sec. cor. of secs. 2 and 35.

Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T37S R18E

$\frac{1}{2}$ S35

S 2

T38S

1957

Independent Resurvey of
North Boundary, T. 38 S., R. 18 E.

Chains

Desc. 110 ft. over ledges on SW. slope into Kane Gulch.

48.50 Old Mormon Trail, bears N. 15° W. and S.

51.50 Wash, 10 lks. wide, 10 ft. deep, course NW. about 4 chs. to junction with wash in bottom of Kane Gulch; desc. 10 ft. along N. slope.

69.60 Wash in bottom of Kane Gulch, 60 lks. wide, 30 ft. deep, course S. 70° W.; asc. 50 ft. over ledges on SE. slope.

75.60 Spur, slopes S.; desc. 20 ft. over SW. slope.

80.00 Point for the cor. of secs. 2, 3, 34 and 35.

Set an iron post, 30 ins. long, 2½ ins. diam., 5 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T37S R18E
S34 | S35
S 3 | S 2
1957

Land, rolling.
Soil, sand and some exposed sandstone.
Timber, medium dense juniper and pinion.

N. 89° 46' W., bet. secs. 3 and 34.

Over rolling bottom of Kane Gulch, through medium dense timber.

1.20 Rim, a ledge about 40 ft. high, bears NW. and SE.; desc. 70 ft. over SW. slope.

2.90 Wash in bottom of Kane Gulch, 50 lks. wide, 5 ft. deep, course NW.; asc. 70 ft. over ledges on NE. slope.

6.50 Spur, slopes N. about 3 chs. to end; desc. 70 ft. over ledges on NW. slope.

13.30 Recross wash in bottom of Kane Gulch, 40 lks. wide, 10 ft. deep, course SW.; asc. over SE. slope.

15.60 Asc. over ledge about 40 ft. high, bears N. 45° E. and S. 45° W.

21.25 Junction of washes from N. and NNW., course S.; asc. 70 ft. over broken SE. slope.

40.00 Point for the ¼ sec. cor. of secs. 3 and 34.

Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 2 ft. base to top, with brass cap mkd.

T37S R18E
¼ S34
S 3
T38S
1957

Asc. 70 ft. over ledges on SE. slope.

46.90 Asc. over ledge about 30 ft. high, bears N. 30° E. and S. 10° W.; asc. 60 ft. over E. slope.

Independent Resurvey of
North Boundary, T38S, R. 18 E.

Chains		Date
58.80	Spur, projects S. 20° W.; desc. 40 ft. over NW. slope.	08.24
80.00	Point for the cor. of secs. 3, 4, 33 and 34. Set an iron post, 30 ins. long; 2½ ins. diam., over a cross (X) on sandstone surface, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.	08.24
	T37S R18E S33 S34 S 4 S 3 T38S 1957	
	Land, rolling and broken. Soil, sand and exposed sandstone. Timber, dense juniper and pinion .	
	N. 89° 46' W. bet. secs. 4 and 33. Through dense timber, over rolling and broken land.	
1.00	E. rim of Grand Gulch, bears NE. and S. 10° W.; desc. 550 ft. over ledges on NW. slope.	
16.50	Wash, in bottom of Grand Gulch, 60 lks. wide, 4 ft. deep, course S. 20° W.; asc. 500 ft. over ledges on SE. slope.	
24.00	W. rim of Grand Gulch, a ledge 400 ft. high, bears N. 10° W. and S. 10° E.; continue ascent of 80 ft. to top of spur.	
27.50	Spur, slopes SE. from top of Grand Gulch Plateau; desc. 40 ft. SSW.	
33.00	Slope changes to SE.; asc. 120 ft.	
40.00	Point for the ¼ sec. cor. of secs. 4 and 33. Set an iron post, 30 ins. long, 2½ ins. diam., 2 ins. in the ground to bedrock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.	
	T37S R18E S33 S 4 T38S 1957	
	Desc. 10 ft. along rolling S. slope atop plateau.	
70.80	Indian Park wash, 10 lks. wide, 3 ft. deep, course SW.; asc. 30 ft. over SE. slope.	
80.00	Point for the cor. of secs. 4, 5, 32 and 33. Set an iron post, 30 ins. long, 2½ ins. diam., 2 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.	
	T37S R18E S32 S33 S 5 S 4 T38S 1957	
	Land, rolling and broken breaks of Grand Gulch. Soil, shallow sand and exposed sandstone. Timber, dense juniper and pinion.	

Independent Survey of
North Boundary, T. 38 N., R. 18 E.

Chains		
	N. 89° 46' W., bet. secs. 5 and 32.	
	Over rolling land, through dense juniper and pinon.	
6.10	Wash, 20 lks. wide, 4 ft. deep, course S. 20° E., thence over rolling S. slope.	
40.00	Point for the $\frac{1}{4}$ sec. cor. of secs. 5 and 32.	
	Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., 20 ins. in the ground, with brass cap mkd.	
	<p style="text-align: center;">T37S R18E $\frac{1}{4}$ S32 S 5 T38S 1957</p>	
	Deposit stone 4x6x3 ins., mkd. with a cross (X) at base of post.	
	Slope changes to SW.; desc. 110 ft. over SW. slope.	
80.00	Point for the cor. of secs. 5, 6, 31, and 32.	
	Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., over a cross (X) on sandstone surface and in a mound of stone, 3 $\frac{1}{2}$ ft. base, to top, with brass cap mkd.	
	<p style="text-align: center;">T37S. R18E S31 S32 S6 S5 T38S 1957</p>	
	Land, rolling.	
	Soil, sand and exposed sandstone.	
	Timber, dense juniper and pinion.	
22.60	N. 89° 46' W., bet. secs. 6 and 31.	
	Over rolling land, through dense juniper; desc. 110 ft. over W. slope	
37.10	Wash, 50 lks. wide, 6 ft. deep, course S. 10° W.; asc. 80 ft. over E. slope.	
37.10	Top of ascent, bears N. and S.; desc. 10 ft. over SW. slope.	
40.00	Point for the $\frac{1}{4}$ sec. cor. of secs. 6 and 31.	
	Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., 16 ins. in the ground and in a mound of stone, with brass cap mkd.	
	<p style="text-align: center;">T37S R18E $\frac{1}{4}$ S31 S 6 T38S 1957</p>	
	Desc. 60 ft. over SW. slope.	
53.50	Wash, 10 lks. wide, 1 ft. deep, course S. from N. 10° E.; asc. 80 ft. over ESE. slope.	

Independent Survey of
North Boundary, T. 18 S., R. 18 E.

Chains 78.03	The cor. of Ts. 37 and 38 S., Rs. 17 and 18 E.	01.0
	Land, rolling. Soil, sand. Timber, dense juniper and pinion.	01.0
	Portion of the Subdivision, T. 38 S., R. 18 E.	00.00
	From the cor. of secs. 1, 2, 35, and 36, on the S. bdy. of T. 38 S., R. 18 E., monumented by an iron post, 2 ins. diam., firmly set, mkd. and witnessed as described in the official record. N. 0° 01' W., bet. secs. 35 and 36.	
	Over rolling land, through very dense timber, general drainage to N. Desc. 30 ft. over slight NW. slope.	
10.50	Shallow wash, sandstone bottom, drains N. 60° E.; asc. 10 ft. over slight NE. slope.	
15.00	High point of ascent on low rise, bears NE. and SW.; desc. 15 ft. over NW. slope.	
23.00	Rim of gulch, heavily timbered, facing NW., bears N. 70° E. and S. 65° W.; desc. abruptly 75 ft.	
26.00	Base of rim, bears N. 55° E. and S. 60° W.; cont. to desc. 25 ft. through wash.	
32.20	Wash, 20 lks. wide, 1 ft. deep, course N.; cont. to desc. 25 ft. through wash.	
39.50	Leave wash, course N. 5° E.	
40.00	Point for the 1/4 sec. cor. of secs. 35 and 36. Set an iron post, 2 1/2 ins. diam., 15 ins. in the ground, and in a mound of stone, 3 ft. base, with brass cap mkd.	
	T38S R18E	
	1/4	
	S35 S36	
	1957	
	From which, A pinion, 6 ins. diam., bears N. 25° E., 47 lks. dist., mkd. 1/4 S36BT A pinion, 8 ins. diam., bears S. 47° 30' W., 52 lks. dist., mkd. 1/4 S35BT.	
	Cor. is located on W. bank and 15 lks. W. of center of wash. Cont. to desc. 10 ft. over a general N. slope.	
41.00	Same wash, drains N. 70° W.	
44.50	Same wash, drains E.; asc. abruptly 30 ft. over sandy S. slope of wash bank.	
47.45	Top of ascent on bank of wash, bears NW. and SE.; cont. to asc. 30 ft. over a general S. slope.	
62.05	Low spur, sloping NE.; desc. 100 ft. over sandy NW. slope; general drainage changes to E.	
76.00	Wash, 15 lks. wide, 2 ft. deep, course E.	
80.00	Point for the cor. of secs. 25, 26, 35, and 36.	

Portion of the Subdivision, T. 38 S., R. 18 E.

Chains

Set an iron post, 2½ ins. diam., 24 ins. in the ground, and in a collar of stone, with brass cap mkd.

T38S R18E
S26|S25
S35|S36
1957

From which,

- A pinion, 12 ins. diam., bears N. 7° E., 30 lks. dist., mkd. BT.
- A pinion, 10 ins. diam., bears S. 89° 30' E., 22 lks. dist., mkd. BT.
- A pinion, 10 ins. diam., bears S. 89° W., 19 lks. dist., mkd. BT.
- A pinion, 6 ins. diam., bears N. 4° W., 38 lks. dist., mkd. BT.

Cor. is located 50 lks. S. of wash, 10 lks. wide, 2 ft. deep, course E.

Land, rolling.
Soil, sandy with sandy loam.
Brush, heavy silverleaf, sage, and sparse grass, cacti.
Timber, very dense pinion, heavy juniper.

From the cor. of secs. 25, 30, 31, and 36, on the E. bdy. of T. 38 S., R. 18 E., mkd. by an iron post, 2 ins. diam., firmly set, mkd., and witnessed as described in the official records.

N. 89° 59' W., bet. secs. 25 and 36.

Over rolling land, through dense timber, general drainage to S.
Asc. 35 ft. over sandy, E. slope.

- 2.00 - Spur, sloping S., desc. 15 ft. over sandy, W. slope,
- 3.90 - Wash, 5 lks. wide, 3 ft. deep, course S. 30° E., heads approx. 15 chs N.; asc. 90 ft. over E. slope.
- 17.55 - Spur, sloping S. 20° W., approx. 6 chs. to end; desc. 150 ft. over broken, general W. slope, over numerous small spurs and washes, sloping and draining, generally S.
- 23.50 - Wash, 20 lks. wide, 2 ft. deep, course S., heads approx. 2 chs. N.
- 33.85 - Wash, 5 lks. wide, 1 ft. deep, course S. 10° W.
- 36.00 - Fork of washes, course S., from N. 15° W. and (main wash) N. 30° W.
- 38.65 - Spur, sloping S.
- 39.92 - Point for the ¼ sec. cor. of secs. 25 and 36.
Set an iron post, 2½ ins. diam., 30 ins. long, 20 ins. in the ground and in a mound of stone, 2 ft. base, to top, with brass cap mkd.

T38S R18E
¼ S25
¼ S36
1957

Cor. is located at base of spur.

Portion of the Subdivision, T. 38 S., R. 18 E.

Chains	Feet
	Asc. 60 ft. over a general E. slope to sec. cor.
42.20	Wash, 10 lks. wide, 2 ft. deep, course S. 20° E.
49.10	Wash, 5 lks. wide, 6 ft. deep, course S.
54.30	Wash, 10 lks. wide, 4 ft. deep, course S.
60.15	Wash, 10 lks. wide, 15 ft. deep, course S.
65.55	Wash, 10 lks. wide, 3 ft. deep, course S.
69.05	Wash, 10 lks. wide, 3 ft. deep, course SE., approx. 150 lks. to above wash.
74.65	Spur, sloping S. 70° E.
76.85	Wash, 10 lks. wide, 3 ft. deep, course S. 80° E.
79.84	The cor. of secs. 25, 26, 35, and 36.
	Land, rolling. Soil, sandy with sandy loam. Brush, heavy silverleaf, sage, and moderate cacti. Timber, dense juniper and pinion.
	From the cor. of secs. 3, 4, 33, and 34, on the S. bdy. of the Tp., monumented by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record.
	N. 0° 02' W., bet. secs. 33 and 34.
	Over rolling land, through dense timber; desc. 20 ft.
9.10	Road, Bears Ears-Mexican Hat junction, bears NE. and SW.; desc. 20 ft. over N. slope.
17.70	Wash, 40 lks. wide, 20 ft. deep, course SW.; asc. 50 ft. over SE. slope.
40.00	Point for the ¼ sec. cor. of secs. 33 and 34.
	Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground and in a mound of stone, 3 ft. base, to top, with brass cap mkd.
	T38S R18E
	¼
	S33 S34
	1957
	Asc. 110 ft. over rolling land.
80.00	Point for the cor. of secs. 27, 28, 33, and 34.

Portion of the Subdivision, T38 S., R. 18 E.

Chains

27.00

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 20 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base, to top, with brass cap mkd.

T38S R18E
S28|S27
S33|S34
1957

Land, rolling.
Soil, sand and exposed sandstone.
Timber, dense juniper and pinion.

N. 0° 02' W., bet. secs. 27 and 28.

Through dense timber; desc. 60 ft. over rolling land.

40.00

Point for the 1/4 sec. cor. of secs. 27 and 28.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 8 ins. in the ground and in a mound of stone, 3 ft. base, to top, with brass cap mkd.

T38S R18E
S28|S27
1957

Desc. 100 ft. over rolling land.

80.00

Point for the cor. of secs. 21, 22, 27, and 28.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 20 ins. in the ground with brass cap mkd.

T38S R18E
S21|S22
S28|S27
1957

Dep. stone, 4x6x2 ins., mkd. with a cross (X), at base of iron post.

Land, rolling.
Soil, sand.
Timber, dense juniper and pinion.

N. 0° 02' W., bet. secs. 21 and 22.

Through dense timber, desc. 20 ft. over N. slope.

11.40

Road, unimproved, bears N. 80° W. and S. 80° E.; desc. 10 ft. over N. slope.

16.10

Center of flat drain, course W.; asc. 30 ft. over S. slope.

40.00

Point for the 1/4 sec. cor. of secs. 21 and 22.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 20 ins. in the ground and in a mound of stone, 2 ft. base, to top, with brass cap mkd.

T38S R18E
S21|S22
1957

Portion of the Subdivision of T. 38 S., R. 18 E.

Chains		ealed
80.00	<p>Asc. 30 ft. over rolling land. and 00 (stay near as per Point for the cor. of secs. 15, 16, 21, and 22.</p>	
	<p>Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground and in a collar of stone, with brass cap mkd.</p> <p style="text-align: center;">T38S R18E S16 S15 S21 S22</p> <p>1957</p> <p>Land, rolling. Soil, sand. Timber, dense juniper and pinion.</p>	the grou
25.50	<p>N. 0° 02' W., bet. secs. 15 and 16.</p> <p>Through dense timber; asc. 10 ft. over slight S. slope.</p> <p>Top of ascent, bears S. 80° W. and N. 80° E.; desc. 140 ft. over N. slope.</p>	
40.00	<p>Point for the ¼ sec. cor. of secs. 15 and 16.</p>	
	<p>Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the ground and in a mound of stone, 2 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T38S R18E ¼ S16 S15 1957</p> <p>Desc. 50 ft. over N. slope.</p>	
42.70	<p>Wash, 40 lks. wide, 30 ft. deep, course N. 80° W.; asc. 110 ft. over S. slope.</p>	
61.70	<p>Spur, projects S. 80° W.; desc. 60 ft. over N. slope.</p>	
77.50	<p>Wash, 20 lks. wide, 2 ft. deep, course W.; asc. 10 ft.</p>	
80.00	<p>Point for the cor. of secs. 9, 10, 15, and 16.</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a mound of stone, 2 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T38S R18E S 9 S10 S16 S15 1957</p> <p>Land, rolling. Soil, sand and exposed sandstone. Timber, dense juniper and pinion.</p>	
2.40	<p>N. 0° 02' W., bet. secs. 9 and 10.</p> <p>Through dense timber, over rolling land; desc. 10 ft. over N. slope</p> <p>Wash, 30 lks. wide, 4 ft. deep, course S. 80° W.; asc. 120 ft. over S. slope.</p>	
16.00	<p>Top. of ledge, 40 ft. high, bears N. 80° E.; and S. 80° W. asc. 50 ft. over S. slope.</p>	

Portion of the Subdivision T. 38 S., R. 18 E.

Chains

26.60

Spur, slopes S. 80° W.; desc. 80 ft. over broken N. slope.

40.00

Point for the 1/4 sec. cor. of secs. 9 and 10.
Set an iron post, 30 ins. long, 2 1/2 ins. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base, to top, with brass cap mkd.

T38S R18E

S9|S10

1957

53.00

Wash, 40 lks. wide, 30 ft. deep, course S. 80° W.; asc. 180 ft. over broken S. slope.

78.80

Spur, slopes S. 80° W.

80.00

Point for the cor. of secs. 3, 4, 9, and 10.
Set an iron post, 30 ins. long, 2 1/2 ins. diam., 8 ins. in the ground to bedrock, and in a mound of stone, 2 1/2 ft. base, to top, with brass cap mkd.

T38S R18E

S4|S3

S9|S10

1957

Land, rolling.
Soil, shallow sand and exposed sandstone.
Timber, dense juniper and pinion.

N. 0° 14' W., bet. secs. 3 and 4.
Through scattered timber; desc. 50 ft. along general W. slope.

31.42

Point selected for the witness 1/4 sec. cor. of secs. 3 and 4.
Set an iron post, 30 ins. long, 2 1/2 ins. diam., 2 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base, to top, with brass cap mkd.

T38S R18E

W.C.

S4|S3

1957

35.50

S. rim of Kane Gulch, a ledge 50 ft. high, bears SE 3/4 and S. 10° W.; desc. 400 ft. over ledges on NE. slope.

40.00

True point for the 1/4 sec. cor. of secs. 3 and 4 falls on face of ledge, 50 ft. high, facing N. 1/2, where the cor. cannot be monumented.

41.60

Wash, in the bottom of Kane Gulch, 40 lks. wide, 4 ft. deep, course NW.; asc. 500 ft. over ledges facing S.

55.30

N. rim of Kane Gulch, a ledge 60 ft. high, bears N. 70° E. and S. 70° W.; asc. 30 ft. over S. slope.

65.20

Spur, slopes SW.; desc. 30 ft. along W. slope.

Portion of the Subdivision of the Ears-Mexican Hat Junction

Chains		00.00
80.27	<p>The cor. of secs. 3, 4, 33, and 34, on the N. bdy. of the Tp.</p> <p>Land, broken breaks of Kane and Grand Gulches.</p> <p>Soil, shallow sand and considerable sandstone exposure.</p> <p>Timber, scattered juniper and pinion.</p>	00.00
4.67	<p>From the cor. of secs. 1, 2, 35, and 36, on the N. bdy. of the Tp.</p> <p>S. 0° 01' E., bet. secs. 1 and 2.</p>	00.00
19.50	<p>Over rolling land, through dense timber; asc. 10 ft. over N. slope.</p> <p>Spur, slopes N. 80° W.; desc. 20 ft. over S. slope.</p>	00.00
40.09	<p>Wash, 10 lks. wide, 3 ft. deep, course N. 30° W.; asc. 90 ft. over N. slope.</p> <p>Point for the $\frac{1}{4}$ sec. cor. of secs. 1 and 2.</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground and in a collar of stone, with brass cap mkd.</p> <p style="text-align: center;">T38S R18E ¼ S2 S1 1957</p>	00.00
52.40	<p>Desc. 10 ft. over gently rolling W. slope.</p> <p>Road, unimproved, bears E. and W. about 3 chs. to junction with road, Bears Ears-Mexican Hat Junction; desc. 10 ft.</p>	00.00
69.30	<p>Wash, 10 lks. wide, 3 ft. deep, course S. 80° W.; asc. 10 ft.</p>	00.00
80.09	<p>Point for the cor. of secs. 1, 2, 11, and 12.</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone, with brass cap mkd.</p> <p style="text-align: center;">T38S R18E S2 S1 S11 S12 1957</p> <p>Land, rolling. Soil, sand. Timber, dense juniper and pinion, with small open flats.</p>	00.00
4.10	<p>N. 89° 50' W., bet. secs. 2 and 11.</p> <p>Over rolling land, through dense timber.</p> <p>Improved dirt road, Bears Ears-Mexican Hat Junction, N. 10° E. and S. 10° W.; desc. 70 ft. over slight SW. slope.</p>	00.00
40.00	<p>Point for the $\frac{1}{4}$ sec. cor. of secs. 2 and 11.</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T38S R18E ¼ S 2 S11 1957</p>	00.00

Part of the Subdivision, T. 18 S., R. 18 E.

Chains
42.00
44.00
80.00

From which U. S. G. S. Triangulation Station "4*2A" bears S. 25° 42' W., 37.51 chs. dist., monumented by an iron post, 1 ins. diam., with brass cap mkd. 4*2A.
Mormon Trail, bears NNW.

Wash, striking NE slope; 100 ft. lower rolling S. slope.

Point for the cor. of secs. 2, 3, 10, and 11.

Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to bedrock, and in a mound of stone, 3-ft. base, to top, with brass cap mkd.

T38S R18E
S3|S2
S10|S11
1957

Land, rolling.
Soil, sand and exposed sandstone.
Timber, dense juniper and pinion, with small open flats.

N. 0° 10' E., bet. secs. 2 and 3.

Through dense timber; asc. 60 ft. over S. slope.

41.20
40.00

Spur, slopes W.; desc. 50 ft. over N. slope.

Point for the ¼ sec. cor. of secs. 2 and 3.

Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground and in a mound of stone, 2 ft. base, to top, with brass cap mkd.

T38S R18E
¼
S3|S2
1957

Desc. 50 ft. over N. slope.

59.00
76.40

S. rim of Kane Gulch, a ledge 30 ft. high, bears E. and W. irregularly; desc. 150 ft. over ledges on N. slope.

Wash, in the bottom of Kane Gulch, 1.50 chs. wide, 40 ft. deep; course NW irregularly; asc. 40 ft. over ledge on S. slope.

80.00

The cor. of secs. 2, 3, 34, and 35, on the N. bdy. of the township.

Land, rolling.
Soil, sand and exposed sandstone.
Timber, dense to scattered juniper and pinion.

From the cor. of secs. 15, 16, 21, and 22.

N. 89° 51' W., bet. secs. 16 and 21.

40.00

Over gently rolling land, through dense juniper.

Point for the ¼ sec. cor. of secs. 16 and 21.

Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground with brass cap mkd.

Chains		Cords
	<p>T38S R18E S16 S21 1957</p> <p>Dep. a stone, 3x6x9 ins., mkd. with a cross (X) at base of post.</p> <p>Desc. 10 ft. over gently rolling land.</p>	<p>00.00 00.00 00.00</p>
80.00	<p>Point for the cor. of secs. 16, 17, 20, and 21.</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground with brass cap mkd.</p> <p>T38S R18E S17 S16 S20 S21 1957</p> <p>Land, rolling. Soil, sand. Timber, dense juniper and pinion.</p>	
8.30 40.00	<p>N. 0° 03' W. bet. secs. 16 and 17.</p> <p>Over rolling land, through dense timber; asc. 10 ft. over slight S. slope.</p> <p>Top of ascent, bears E. and W.; desc. 70 ft. over slight N. slope.</p> <p>Point for the ¼ sec. cor. of secs. 16 and 17.</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock, and in a mound of stone, 2½ ft. base, to top, with brass cap mkd.</p> <p>T38S R18E S17 S16 1957</p>	
67.00 72.61	<p>Desc. 130 ft. over ledgy N. slope. Wash, drains NW.</p> <p>Point selected for the witness cor. of secs. 8, 9, 16, and 17.</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on sandstone surface, and in a mound of stone, 3½ ft. base, to top, with brass cap mkd.</p> <p>T38S R18E W C S8 S9 S17 S16 1957</p>	
72.80	<p>S. rim of gulch, a ledge about 40 ft. high, bears N. 80° W. and S. 80° E.; desc. 350 ft. over ledges on N. slope.</p>	
80.00	<p>Point for the cor. of secs. 8, 9, 16, and 17 falls on face of ledge sloping N., where the cor. cannot be monumented.</p> <p>Land, rolling to broken Soil, sand and exposed sandstone. Timber, dense juniper and pinion.</p>	<p>00.00</p>

Portion of the Subdivision T. 38 S., R. 18 E.

Chains	
	From the corner of secs. 9, 10, 15, and 16. N. 89° 52' W., bet. secs. 9 and 16. Over rolling land, through dense timber; desc. 20 ft. over NW. slope.
7.30	Wash, 30 lks. wide, 3 ft. deep, course S. 80° W.; asc. 20 ft. over broken S. slope.
39.99	Point for the $\frac{1}{4}$ sec. cor. of secs. 9 and 10. Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., 10 ins. in the ground and in a mound of stone, 2 ft. base, to top, with brass cap mkd.
	T38S R18E * $\frac{39}{S16}$ 1957
	Asc. 30 ft. along broken S. slope.
51.20	N. rim of gulch, a ledge about 40 ft. high, bears N. 80° W. and S. 80° E.; desc. about 400 ft. over ledges along S. slope.
72.50	Wash, in the bottom of gulch, 50 lks. wide, 4 ft. deep, course W.; asc. about 50 ft. over ledges facing N.
79.98	True point for the cor. of secs. 8, 9, 16, and 17. Land, rolling and broken. Soil, sand and exposed sandstone. Timber, dense to scattered juniper and pinion.

	Beginning at the cor. of secs. 4, 5, 32, and 33, on the S. bdy., which is mkd. by an iron post, 2 ins. diam., firmly set, mkd. and witnessed as described in the official record of the survey of the N. bdy. of T. 39 S., R. 18 E. N. 0° 03' W., bet. secs. 32 and 33. Asc. 70 ft. over gentle S. slope, through dense juniper and pinion, to $\frac{1}{4}$ sec. cor.
17.00	Wash, 10 lks. wide, 1 ft. deep, drains W.; at a point 50 lks. W. of line drainage changes to S.
20.20	Wash, near head, drains SW.
22.40	Small wash, drains SW.
28.75	Wash, 20 lks. wide, 1 ft. deep, drains SW.
31.30	Wash, 20 lks. wide, 1 ft. deep, drains SW.
40.00	Point for the $\frac{1}{4}$ sec. cor. of secs. 32 and 33. Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., 18 ins. in the ground with brass cap mkd.
	T38S R18E * $\frac{40}{S32 S33}$ 1957
	From which,

Portion of the Subdivision of T. 38 S., R. 18 E.

Chains

entire)

A pinion, 29 ins. diam., bears S. 56° 04' E. 37 lks. dist., mkd. T38SR18E&S33ET.

A pinion, 24 ins. diam., bears S. 65° 14' W., 15 lks. dist., mkd. T38SR18E&S32ET.

Cont. over rolling land.

- 54.80 By triangulation on S. rim of low mesa, thence over nearly level mesa top.
- 67.35 End of tri. on S. rim of low mesa; thence over nearly level mesa to
- 73.20 N. rim of mesa; desc. 55 ft. over broken N. facing ledges.
- 80.00 Point for the cor. of secs. 28, 29, 32, and 33.

Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground and in a mound of stone, 3 ft. base to top, of post, with brass cap mkd.

T38S R18E
 S29|S28
 S32|S33
 1957

Lead, rolling.
 Soil, deep sandy.
 Timber, dense juniper and pinion; undergrowth, scattered artemesia.

Beginning at the cor. of secs. 5, 6, 31, and 32, on the S. bdy., which is mkd. by an iron post, 2 ins. diam., firmly set, mkd. and witnessed as described in the official record of the survey of the N. bdy. of T. 39 S., R. 18 E.

N. 0° 03' W., bet. secs. 31 and 32.

Over rolling land, through dense juniper and pinion.

- 18.75 Wash, 20 lks. wide, 1 ft. deep, drains SW.

- 40.00 Point for the ¼ sec. cor. of secs. 31 and 32.

Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground with brass cap mkd.

T38S R18E
 S31|S32
 1957

- 40.50 Leave timber, bears E. and W., thence over sagebrush covered flat.

- 57.75 Wash, 20 lks. wide, 1 ft. deep, drains SW.

- 64.00 Enter dense juniper and pinion, bears N. 70° E. and S. 70° W.

- 80.00 Point for the cor. of secs. 29, 30, 31, and 32.

Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground with brass cap mkd.

T38S R18E
 S30|S29
 S31|S32
 1957

374

Portion of the Subdivision, T. 38 S., R. 18 E.

Chains

From which

A pinion, 10 ins. diam., bears N. 78° 50' W., 34 lks. dist.,
mkd. T38SR18ES31BT.

No other suitable bearing trees available.

Land, rolling.

Soil, deep sandy.

Timber, dense juniper and pinion.

Undergrowth, dense sagebrush in clearings and scattered artemesia
under the timber.

From the cor. of secs. 28, 29, 32, and 33.

N. 89° 56' W., bet. secs. 29 and 32.

Over rolling land, through dense juniper and pinion.

15.70 Low white sandstone ledge, 4 ft. high, bears N. and S., by triangulation.

39.94 Point for the $\frac{1}{4}$ sec. cor. of secs. 29 and 32.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 8 ins. in the ground
and in a mound of stone, 3 ft. base to top of post, with brass cap
mkd.

T38S R18E

S29

$\frac{1}{4}$ S32

1957

41.90 End of triangulation; cont. over rolling land, through dense juniper
and pinion.

79.88 The cor. of secs. 29, 30, 31, and 32.

Land, rolling.

Soil, deep sandy.

Timber, dense juniper and pinion.

Undergrowth, scattered artemesia.

General Description

The land in the township is mostly gently rolling desert bench land, known as Cedar Mesa. The south and west portions of the township is cut by numerous steep sided and box canyons. A narrow strip along the east portion of the township drains southeast, and the balance of the township drains to the southwest, into tributaries of the Colorado River. The soil is principally a sandy clay, with a considerable amount of exposed, broken, and eroded sandstone. There is a dense growth of juniper and pinion over most of the township. The undergrowth is mainly sagebrush, with lesser amounts of rabbit brush, yellow brush, mountain rush, silverleaf, bitter brush, grass and weeds. There are no permanent habitats in the township. A considerable amount of prospecting for fissionable minerals has been and to some extent is still being carried on in the area. The township is accessible by the Mormon Trail Road, from Hite to Bluff, bearing north to south over the eastern portion of the township.

CERTIFICATE OF CADASTRAL ENGINEER

I, Donald A. Cannon, HEREBY CERTIFY upon honor the
pursuance of special instructions bearing date of the 2nd day of April 1958
I have ~~surveyed~~ independently resurveyed the north boundary and surveyed a portion
of the subdivision of Township 38 South, Range 18 East

of the Salt Lake Meridian, in the State of Utah, which
represented in the foregoing field notes as having been executed by me and under my direction; and
said survey has been made in strict conformity with said instructions, the Manual of Instructions for
Survey of the Public Lands of the United States, and in the specific manner described in the foregoing
field notes.

February 10, 1958
Salt Lake City, Utah

Donald A. Cannon
Donald A. Cannon - Cartographic Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., _____, 1958

The foregoing field notes of the survey of _____

executed by _____
having been critically examined and found correct, are hereby approved.

Cadastral Engineering Staff Officer

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____
_____, is a true copy of the original field notes.

Cadastral Engineering Staff Officer

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
John R. Koger	Principal Assistant
Mary W. Rutledge	Chainman
Ray Nelson	Flagman
Charles G. Carroll	Axeman
Douglas Monson	Cornerman

CERTIFICATE OF CADASTRAL ENGINEER

I, Dell Cazier, HEREBY CERTIFY upon honor the
pursuance of special instructions bearing date of the 2nd day of April,
I have surveyed a portion of the subdivision of T. 38 S., R. 18 E.

of the Salt Lake Meridian, in the State of Utah, which
represented in the foregoing field notes as having been executed by me and under my direction; and t
said survey has been made in strict conformity with said instructions, the Manual of Instructions for
Survey of the Public Lands of the United States, and in the specific manner described in the forego
field notes.

February 10, 1958
Salt Lake City, Utah

Dell Cazier
Dell Cazier
Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., _____, 19__

The foregoing field notes of the survey of

executed by _____
having been critically examined and found correct, are hereby approved.

Cadastral Engineering Staff Office

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____
is a true copy of the original field notes.

Cadastral Engineering Staff Office

CERTIFICATE OF CADASTRAL ENGINEER

I, Phil D. Smith, HEREBY CERTIFY upon honor the
pursuance of special instructions bearing date of the 2nd day of April,

I have surveyed a portion of the subdivision of T. 38 S., R. 18 E.

of the Salt Lake Meridian, in the State of Utah, which
represented in the foregoing field notes as having been executed by me and under my direction; and t
said survey has been made in strict conformity with said instructions, the Manual of Instructions for
Survey of the Public Lands of the United States, and in the specific manner described in the forego
field notes.

February 10, 1958

Salt Lake City, Utah

Phil D. Smith
Phil D. Smith
Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., _____, 19__

The foregoing field notes of the survey of _____

executed by _____

having been critically examined and found correct, are hereby approved.

Cadastral Engineering Staff Office

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____

_____, is a true copy of the original field notes.

Cadastral Engineering Staff Office

CERTIFICATE OF CADASTRAL ENGINEER

I, Vern E. Lane, HEREBY CERTIFY upon honor the
pursuance of special instructions bearing date of the 2nd day of April, 1958
I have ~~conducted~~ supervised the independent resurvey of the north boundary and the
survey of a portion of the subdivision of Township 38 South, Range 18 East
of the Salt Lake Meridian, in the State of Utah, which
represented in the foregoing field notes as having been executed ~~by me and under my directions~~ ^{under my supervision} and that
said survey has been made in strict conformity with said instructions, the Manual of Instructions for
Survey of the Public Lands of the United States, and in the specific manner described in the foregoing
field notes.

February 10, 1958
Salt Lake City, Utah

Vern E. Lane
Vern E. Lane - Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., JUN 17 1958, 1958

The foregoing field notes of the ~~survey of~~ independent resurvey of the north boundary and
the survey of a portion of the subdivision of Township 38 South, Range 18 East,
Salt Lake Meridian, Utah

executed by Donald A. Cannon, Dell Cazier and Phil D. Smith, under the supervision
Vern E. Lane
having been critically examined and found correct, are hereby approved.

Carl G. Harrington
Carl G. Harrington
Cadastral Engineering Staff Officer

CERTIFICATE OF TRANSCRIPT

~~I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in
is a true copy of the original field notes.~~

Cadastral Engineering Staff Officer

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE

SURVEY

OF THE

EAST AND NORTH BOUNDARIES

AND

A PORTION OF THE SUBDIVISION

OF

TOWNSHIP 38 SOUTH, RANGE 19 EAST

Of the Salt Lake Meridian,

in the State of Utah

EXECUTED BY

Vern E. Lane	-	Cadastral Surveyor (Chief of Party)
Fred R. Chappell	-	Cadastral Surveyor
Phil D. Smith	-	Cadastral Surveyor
Bell Cazier	-	Cadastral Surveyor

Under special instructions dated April 2, 1957, which provided

for the surveys included under Group No. 406, approved April 10, 1957

and assignment instructions dated June 14, 1957

Survey commenced June 27, 1957

Survey completed August 1, 1957

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19	20	19 21	14 22	23	24 3
30	29	28	13 27	26	25 2
31	23 22 23	21 23	12 24	25	11 10 26 2

16-50770-1

Fred R. Chappell _____
 Phil D. Smith _____
 Dell Cazier _____

2004

Township 38 South, Range 19 East

Chains

The south boundary of Township 38 South, Range 19 East of the Salt Lake Meridian, Utah was surveyed by A. D. Ferron in 1884 and independently resurveyed by Robert C. Yundt, Charles F. Moore and Walter H. Good in 1928. The west boundary was surveyed concurrently under this group, and is described in the field notes of the survey of Township 38 South, Range 18 East. The following field notes are those of a survey of the east and north boundaries and that part of the subdivision considered sufficient in extent to mark the boundaries of those sections normally considered State school land, and to facilitate the development of the natural resources. The corners along the latitudinal lines were established at the true latitudinal curve, and all corners of the subdivision are established at points calculated to be in the same position they would occupy if the township had been completely subdivided.

The survey was executed with Buff and Buff Solar transit, serial No. 26066 and W. and L. E. Gurley solar transits, serial Nos. 451326 and 541235, all being the property of the Bureau of Land Management and constructed in accordance with their standard specifications. The horizontal plate has two double verniers placed opposite each other, and the vertical circle has one double vernier. The horizontal verniers of the Gurley transits are graduated to 30 minutes of arc. All other verniers of the transits and solar attachments are graduated to single minutes of arc. The instruments were in good adjustment, and prior to the beginning of the field work they were examined and all errors eliminated. They were maintained in good adjustment during the survey.

The geographic position of the southeast corner of the township, determined through section line ties made to U. S. Geological Survey triangulation station No. "4-108A", in Township 38 South, Range 20 East, section 1 and U.S. Coast and Geodetic triangulation station "Bridges" in Township 37 South, Range 17 East is as follows:

Latitude: $37^{\circ} 25' 56.70''$ N.
Longitude: $109^{\circ} 45' 54.89''$ W.

The mean magnetic declination was found to be 15° E.

The direction of the lines of the survey were determined by reference to true meridians established on line by hour angle observations on Polaris or altitude observations on the sun and the solar transit method.

The measurements were made with steel ribbon tapes, 8 chains in length. These tapes are graduated every link for the first chain, and thereafter at intervals of 10 links. They were tested by comparison with a Lufkin standard steel tape, 1 chain in length, and found to be correct. The measurements were made on the slope, the vertical angle of each interval determined by use of the clinometers, and the slope distances properly reduced to horizontal equivalents, which appear in these notes. In most cases the distances were determined by chaining, but in some instances they were obtained by triangulation and in others by traverses and offsets. The details of these were thoroughly verified and only the true line distances are given in these notes.

Chains

mksd.)

Beginning at the corner of Ts. 38 and 39 S., Rs. 19 and 20 E., mkd. by an iron post, 3 ins. diam., conforming to the record.

Thence

N. 0° 03' E., bet. secs. 31 and 36.

Over rolling and broken desert land, through dense timber and scant undergrowth; desc. 30 ft. over a gentle NE. slope.

21.50 Small draw, drains NE.

23.00 Main draw, drains SE.; asc. 55 ft. over a gentle SE. slope.

40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 31 and 36.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 24 ins. in the ground, with brass cap mkd.

T38S
R19E R20E
*
S36|S31
1957

Deposit a sandstone, 4x4x4 ins., mkd. with a cross (X) at the base of the post.

Desc. 20 ft. over a N. slope.

45.55 S. rim of S. fork of Fish Creek Canyon, bears NE. and SW., thence across deep canyon by triangulation.

71.00 South Fork of Fish Creek Canyon, drains generally SE.

80.00 Point for the cor. of secs. 25, 30, 31 and 36 falls on inaccessible ledge in canyon.

Land, broken and rolling desert.

Soil, sandy clay, with exposed sandstone.

Timber, dense juniper and pinion of no commercial value.

Undergrowth, scant yellow top, silverleaf, bitter brush, sagebrush, grass and weeds.

N. 0° 03' E., bet. secs. 25 and 30.

Over broken and rolling desert land, through dense timber and scant undergrowth.

9.40 N. rim of canyon, bears E. and W.

9.50 Point for the witness cor. of secs. 25, 30, 31 and 36.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., over a cross (X) cut in solid sandstone, and in a large mound of stone, with brass cap mkd.

T38S
R19E R20E
S25|S30
S36|S31
W C
1957

Asc. 120 ft. over a gentle S. slope.

East Boundary, T. 38 S., R. 19 E.

Chains

37.70 Small knoll.

40.00 Point for the 1/4 sec. cor. of secs. 25 and 30.
 Set an iron post, 30 ins. long, 2 1/2 ins. diam., 24 inq. in the ground, with brass cap mkd.

T38S
 R19E R20E
 1/4
 S25 | S30
 1957

Deposit a sandstone, 5x3x2 ins., mkd. with a cross (X) at the base of the post.

Desc. 40 ft. over a gentle N. slope.

65.00 Small hollow, drains E.

68.08 Point for the witness cor. of secs. 19, 24, 25 and 30.
 Set an iron post, 30 ins. long, 2 1/2 ins. diam., over a cross (X) cut in solid sandstone, and in a large mound of stone, with brass cap mkd.

T38S
 R19E R20E
 S24 | S19
 S25 | S30
 W C
 1957

68.20 S. rim of Fish Creek, bears NW. and SE., thence across canyon by triangulation:

80.00 Point for the cor. of secs. 19, 24, 25 and 30 falls on inaccessible ledges in Fish Creek Canyon.
 Land, gently and badly broken desert.
 Soil, sandyclay, with exposed sandstone.
 Timber, dense juniper and pinion of no commercial value.
 Undergrowth, scant sagebrush, yellow top, silverleaf, grass and weeds.

N. 0° 03' E., bet. secs. 19 and 24.
 Over broken and gently rolling desert land, through dense timber and scant undergrowth.

7.00 Fish Creek Canyon, drains SE.

27.10 N. rim of Fish Creek Canyon, bears NW. and SE., thence across sandstone slick rock.

25.20 Leave sandstone slick rock, enter dense juniper and pinion.

40.00 Point for the 1/4 sec. cor. of secs. 19 and 24.
 Set an iron post, 30 ins. long, 2 1/2 ins. diam., 10 ins. in the ground, and in a mound of stone, with brass cap mkd.

T38S
 R19E R20E
 1/4
 S24 | S19
 1957

Deposit a sandstone, 4x4x3 ins., mkd. with a cross (X) at base of post.

Chains

Asc. 30 ft. over S. slope.

47.70

Spur, projects W.

57.50

Wash, 8 lks. wide, 2 ft. deep, drains SW.

64.00

Same wash, drains SE.

72.00

Leave timber, enter sagebrush opening.

80.00

Point for the cor. of secs. 13, 18, 19 and 24.

Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd.

T38S
R19E R20E
S13 | S18
S24 | S19
1957

Deposit charcoal at the base of the post.

Land, badly broken the first 27.00 chs., gently rolling the balance. Soil, sandy clay, with sandstone ledges and barren sandstone. Timber, dense juniper and pinion, of no commercial value. Undergrowth, dense sagebrush in the openings, scant sagebrush, bitter brush, silverleaf, grass and weeds the balance.

N. 0° 03' E., bet. secs. 13 and 18.

Over gently rolling desert land, through dense timber and scant undergrowth.

0.50

Leave sagebrush opening, enter dense timber.

22.30

Leave timber, enter sagebrush opening.

36.40

Leave sagebrush opening, enter timber.

40.00

Point for the ¼ sec. cor. of secs. 13 and 18.

Set an iron post, 30 ins. long, 2½ ins. diam., 16 ins. in the ground, with brass cap mkd.

T38S
R19E R20E
¼
S13 | S18
1957

Deposit charcoal at the base of the post.

47.00

Wash, 8 lks. wide, 4 ft. deep, drains S. 75° E.; asc. 25 ft. over gentle S. slope.

56.70

Top of small rise, slopes E.; desc. 15 ft.

65.00

Wash, 10 lks. wide, 1 ft. deep, drains E.

80.00

Point for the cor. of secs. 7, 12, 13 and 18.

East Boundary, T. 38 S., R. 19 E.

Chas

Set an iron post, 30 ins. long, 2½ ins. diam.; 20 ins. in the ground, with brass cap mkd.

T38S
R19E R20E
S12 | S 7
S13 | S18
1957

Deposit a sandstone, 4x4x4 ins., mkd. with a cross (X) at the base of the post.

Land, gently rolling desert.
Soil, sandy clay.
Timber, dense juniper and pinon; of no commercial value.
Undergrowth, scant sagebrush, bitter brush, grass and weeds.

N. 0° 03' E., bet. secs. 7 and 12.

Over gently rolling desert land, through dense timber and scant undergrowth; asc. 30 ft. over gentle S. slope.

19.80 Leave timber, enter sagebrush opening.

29.80 Leave sagebrush opening, enter timber.

29.90 Wash, 10 lks. wide, 8 ft. deep, drains SE.

40.00 Point for the ¼ sec. cor. of secs. 7 and 12.

Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd.

T38S
R19E R20E
¼
S12 | S 7
1957

Deposit a sandstone, 4x4x4 ins., mkd. with a cross (X) at the base of the post.

47:50 Wash, 15 lks. wide, 6 ft. deep, drains SE.

80.00 Point for the cor. of secs. 1, 6, 7 and 12.

Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd.

T38S
R19E R20E
S 1 | S 6
S12 | S 7
1957

Deposit charcoal at the base of the post.

Land, very gently rolling.
Soil, sandy clay.
Timber, dense juniper and pinon; of no commercial value.
Undergrowth, dense sagebrush in the openings, scant sagebrush, bitter brush, grass and weeds the balance.

East Boundary, T. 28 S., R. 19 E.

Chains	said
	N. 0° 03' E., bet. secs. 1 and 6. Over very gently rolling desert land, through dense timber and scant undergrowth.
13.00	Small basin, thence over a series of small sand ridges.
32.80	Wash, in Pocket Fork, 2 chs. wide, 10 ft. deep, drains N. 80° E.
40.00	Point for the 1/4 sec. cor. of secs. 1 and 6. Set an iron post, 30 ins. long, 2 1/2 ins. diam., 20 ins. in the ground, with brass cap mkd.
	T38S R19E R20E * S1 S6 1957
	Deposit a sandstone, 4x4x4 ins., mkd. with a cross (X) at the base of the post. Continue over sand ridges.
68.00	Wash, 50 lks. wide, 12 ft. deep, drains SW.
75.50	Head of a series of sand ridges putting to the SW.
81.24	The cor. of Ts. 37 and 38 S., Rs. 19 and 20 E., mkd. by an iron post, 3 ins. diam., conforming to the record. Land, gently rolling desert. Soil, sandy clay loam. Timber, dense juniper and pinon. Undergrowth, scant sagebrush, bitter brush, grass and weeds.

North Boundary, T. 38 S., R. 19 E.

	Beginning at the cor. of Ts. 37 and 38 S., Rs. 19 and 20 E., which is mkd. by an iron post, 3 ins. diam., firmly set, mkd. and witnessed as described in the official record of the survey range line bet. Rs. 19 and 20 E., T. 37 S.
	S. 89° 46' W., bet. secs. 1 and 36. Over series of sandy spurs and washes.
3.00	Wash, 20 lks. wide, 2 ft. deep, drains S. 45° W.
10.20	Wash, 10 lks. wide, 1 ft. deep, drains S.
16.80	Spur, sloping SW.
19.95	Wash, 20 lks. wide, 1 ft. deep, drains S.
21.50	Wash, 20 lks. wide, 1 ft. deep, drains SW.
28.00	Jeep road, bears N. and S.
30.10	Wash, 20 lks. wide, 1 ft. deep, drains S.

North Boundary, T. 38 S., R. 19 E.

Chains

38.50 Wash, 20 lks. wide, 1 ft. deep, drains S.

40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 1 and 36.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 18 ins. in the ground, and in a mound of stone, 2 ft. base to top, with brass cap mkd.

T37S R19E
 S36
 S 1
 T38S
 1957

Deposit a sandstone, 6x6x2 ins., mkd. with a cross (X) alongside the post.

48.50 Wash, 20 lks. wide, 1 ft. deep, drains S.

68.00 Edge of small sagebrush flat, leave timber, bears N. and S.

70.00 Enter dense juniper and pinon, bears S. 45° E. and N. 45° W.

75.50 Wash, 20 lks. wide, 1 ft. deep, drains S. 45° E.

80.00 Point for the cor. of secs. 1, 2, 35 and 36.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 10 ins. in the ground, and in a mound of stone, $3\frac{1}{2}$ ft. base to top, with brass cap mkd.

T37S R19E
 S35 | S36
 S 2 | S. 1
 T38S
 1957

Land, series of spurs.
 Soil, deep sandy.
 Timber, dense juniper and pinon.
 Undergrowth, scattered artemesia.

S. 89° 46' W., bet. secs. 2 and 35.

Over rolling land, through dense juniper and pinon.

1.00 Wash, 20 lks. wide, 1 ft. deep, drains N. 85° E.

15.30 Wash, 10 lks. wide, 1 ft. deep, drains S. 45° E.

40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 2 and 35.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 20 ins. in the ground, with brass cap mkd.

T37S R19E
 S35
 S 2
 T38S
 1957

44.60 Wash, 20 lks. wide, 1 ft. deep, drains SE.

49.00 Jeep road, bears N. 45° W. and S. 45° E.

52.90 Desc. 130 ft. over broken W. facing ledges.

Chains

cont'd

72.75 Point selected for the witness cor. of secs. 2, 3, 34, and 35 on E. rim of Fish Creek Canyon.

Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, and in a mound of stone, 4 ft. base to top, with brass cap mkd.

T37S R19E

W S34 | S35

C S 3 | S 2

T38S

1957

By triangulation, cross Fish Creek.

80.00 True point for the cor. of secs. 2, 3, 34, and 35 falls in the bottom of Fish Creek Canyon, where it is impractical to set the monument.

Land, rolling, except where cut by Fish Creek, which is a canyon, 50 chs. wide, and approximately 1000 ft. deep.
Soil, deep sandy.

Timber, dense juniper and pinon.
Undergrowth, scattered artemesia.

S. 89° 46' W., bet. secs. 3 and 34.

Gross Fish Creek Canyon.

2.50 Wash in bottom of Fish Creek Canyon, drains SE.

37.00 W. rim of canyon, with near vertical ledge 800 ft. high, bears S. 45° E. and N. 45° W.

Asc. 30 ft. over NE. facing broken ledges.

40.00 Point for the ¼ sec. cor. of secs. 3 and 34.

Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.

T37S R19E

S34

S 3

T38S

1957

62.75 Desc. 140 ft. over SW. facing broken ledges, desc. 140 ft. over SW. facing broken ledges.

80.00 Point for the cor. of secs. 3, 4, 33 and 34.

Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground, and in a mound of stone, 2½ ft. base to top, with brass cap mkd.

T37S R19E

S33 | S34

S 4 | S 3

T38S

1957

Land, rolling.
Soil, deep sandy.
Timber, dense juniper and pinon.
Undergrowth, scattered artemesia.

Chains

S. 89° 46' W., bet. secs. 4 and 33.

Over broken ledges on the E. rim of S. fork of Fish Creek.

12.00 E. rim of fork of Fish Creek, by triangulation over canyon, with near vertical ledges, 200 ft. high, bears SE. and NW.

20.00 Fork of Fish Creek Canyon, drains SE.

30.00 W. rim of fork of Fish Creek, with near vertical ledges, 200 ft. high, bears SE. and NW. Continue to asc. over broken NE. facing ledges.

38.35 End of triangulation, thence over rolling land.

40.00 Point for the 1/4 sec. cor. of secs. 4 and 33.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 20 ins. in the ground, with brass cap mkd.

T37S R19E
S33
1/4 S 4
T38S
1957

56.80 Low spur, sloping SW.

60.70 Shallow wash, drains S.

80.00 Point for the cor. of secs. 4, 5, 32 and 33.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 12 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T37S R19E
S32 | S33
S 5 | S 4
T38S
1957

Land, rolling, except where cut by S. fork of Fish Creek.
Soil, deep sandy.
Timber, dense juniper and pinon.
Undergrowth, scattered artemesia.

S. 89° 46' W., bet. secs. 5 and 32.

Over rolling land, through dense juniper and pinon.

5.40 Wash, 20 lks. wide, 1 ft. deep, drains S. 30° W.

7.50 Wash, 20 lks. wide, 2 ft. deep, drains S. 30° W.

22.20 Wash, 10 lks. wide, 1 ft. deep, drains S.

37.70 Sandstone ledge, 10 ft. high, bears NW. and SE.

40.00 Point for the 1/4 sec. cor. of secs. 5 and 32.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 6 ins. in the ground, and in a mound of stone, 3 1/2 ft. base to top, with brass cap mkd.

<p>Chains</p> <p>62.50</p> <p>79.90</p> <p>80.00</p>	<p style="text-align: center;">T37S R19E S31 S 5 T38S 1957</p> <p>By triangulation, over series of spurs and washes Owl Creek, drains SE.</p> <p>End of triangulation.</p> <p>Point for the cor. of secs. 5, 6, 31 and 32.</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd.</p> <p style="text-align: center;">T37S R19E S31 S32 S 6 S 5 T38S 1957</p> <p>Land, rolling. Soil, deep sandy. Timber, dense juniper and pinon. Undergrowth, scattered artamesia.</p>	<p>00.11</p> <p>00.02</p> <p>00.02</p> <p>00.00</p> <p>00.00</p> <p>00.00</p>
<p>40.00</p>	<p>S. 89° 46' W., bet. secs. 6 and 31.</p> <p>Over rolling land, through dense juniper and pinon.</p> <p>Point for the ¼ sec. cor. of secs. 6 and 31.</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd.</p>	<p>00.08</p> <p>00.00</p>
<p>78.88</p>	<p style="text-align: center;">T37S R19E S31 S 6 T38S 1957</p> <p>The cor. of Ts. 37 and 38 S., Rs. 18 and 19 E., which is mkd. by an iron post, 3 ins. diam., 6 ins. above ground, firmly set, mkd. and witnessed as described in the official record of the survey of the R. line bet. Rs. 18 and 19 E., T. 38 S., 1930.</p> <p>Land, rolling. Soil, deep sandy. Timber, dense juniper and pinon. Undergrowth, scattered artamesia.</p>	<p>00.00</p> <p>00.00</p>
	<p style="text-align: center;">Portion of the Subdivision, T. 38 S., R. 19 E.</p> <p>Beginning at the cor. of secs. 1, 2, 35 and 36, on the S. bdy. of the township, mkd. by an iron post, 2 ins. diam., conforming to the record,</p> <p>Thence</p> <p>N. 0° 02' E., bet. secs. 35 and 36.</p>	<p>00.00</p> <p>00.00</p>

Chains

Over gently rolling desert land, through dense timber and scant undergrowth; asc. 35 ft. over S. slope.

20.40 Sandstone projects, S. 80° E., thence over gently rolling land.

22.80 Small draw, drains E.

40.00 Point for the 1/4 sec. cor. of secs. 35 and 36. Set an iron post, 30 ins. long, 2 1/2 ins. diam., 20 ins. in the ground, with brass cap mkd.

T38S R19E

S35|S36

1957

Deposit charcoal at the base of the post.

Continue over gently rolling land.

49.30 Wash, .50 lks. wide, 12 ft. deep, drains S. 75° E.

60.20 Wash, .25 lks. wide, 4 ft. deep, drains S. 70° E.

80.00 Point for the cor. of secs. 25, 26, 35 and 36.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 3 ins. in the ground to solid rock, and in a large mound of stone, with brass cap mkd.

T38S R19E

S26|S25

S35|S36

1957

Land, gently rolling desert.

Soil, sandy clay.

Timber, dense juniper and pinon.

Undergrowth, scant sagebrush, bitter brush, grass and weeds.

Counting distance from the true point for the cor. of secs. 25, 30, 31 and 36, on the E. bdy. of the township, thence by traverse with topography approximately as scaled from planimetric maps.

S. 89° 54' W., bet. secs. 25 and 36.

Over rough, badly broken desert land, through scattered timber and scant undergrowth; desc. over a series of sandstone ledges facing S.

21.00 Bottom of S. fork of Fish Creek; asc. over a series of ledges facing N.

40.00 Point for the 1/4 sec. cor. of secs. 25 and 36, falls on inaccessible ledge, where the corner cannot be perpetuated.

57.00 S. rim of canyon, a sandstone rim, bears S. 70° E. and N. 85° W., thence over sandstone slick rock.

64.00 Leave slick rock, enter dense timber; asc. gentle NE. slope.

80.00 The cor. of secs. 25, 26, 35 and 36.

Portion of the Subdivision, T. 38 S., R. 19 E.

Chains	Notes
	Land, badly broken desert, and brush scattered growing over Soil, sandy clay, with the better part of exposed sandstone. Timber, scattered and dense uniper and pinon. Undergrowth, scant, sagebrush, bitter brush, grass and weeds.
	From the cor. of secs. 3, 4, 33 and 34, on the S. bdy. of this town- ship, mkd. by an iron post, 2 ins. diam., firmly set, mkd. and witnessed as described in the official record, of no. 207 N. 0° 01' E., bet. secs. 33 and 34.
	Over rolling land, through dense timber; general drainage to NE. Desc. 25 ft. over rolling N. slope to $\frac{1}{4}$ sec. cor.
1.50	Draw, course N. 80° E.
4.50	Wash, 10 lks. wide, 4 ft. deep, course N. 70° E.
27.40	Leave rolling land, continue over slight N. slope.
35.50	Rut road, bears E. and W.
40.00	Point for the $\frac{1}{4}$ sec. cor. of secs. 33 and 34. Set an iron post, 2 $\frac{1}{2}$ ins. diam., 18 ins. in the ground, and in a mound of stone, 2 ft. base, with brass cap mkd.
	T38S R19E $\frac{1}{4}$ S33 S34 1957
	from which A pinon, 6 ins. diam., bears N. 14° E., 42 lks. dist., mkd. BT. A pinon, 6 ins. diam., bears S. 72 $\frac{1}{2}$ ° W., 38 lks. dist., mkd. BT.
	Desc. 20 ft. over N. slope.
42.80	S. rim of canyon with vertical ledge, 30 ft. high, facing NE., bears N. 80° W. and S. 80° E.; desc. 80 ft.
45.00	Wash in bottom of canyon, course S. 80° E.; a seep bears N. 70° W., approximately 11 chs. dist.; asc. 25 ft.
46.80	N. rim of canyon with broken ledges, 20 ft. high, facing SW., bears N. 65° W. and S. 75° E.; asc. 75 ft. over a general S. slope.
80.00	Point for the cor. of secs. 27, 28, 33 and 34. Set an iron post, 2 $\frac{1}{2}$ ins. diam., 20 ins. in the ground, and in a mound of stone, 3 ft. base, with brass cap mkd.
	T38S R19E S28 S27 S33 S34 1957

Chains

from which

A juniper, 6 ins. diam., bears N. $5\frac{1}{2}^{\circ}$ E., 33 lks. dist., mkd. BT.

A pinon, 6 ins. diam., bears S. $10\frac{1}{2}^{\circ}$ W., 41 lks. dist., mkd. BT.

Land, rolling to broken, with some exposed sandstone surface.

Soil, sandy.

Timber, dense juniper and moderate pinon.

Undergrowth, moderate silverleaf and cacti.

N. $0^{\circ} 01'$ E., bet. secs. 27 and 28.

Over rolling land, general drainage NE.

Asc. 70 ft. over rolling, general N. slope.

- 1.00 Wash, 10 lks. wide, 4 ft. deep, course E.
- 7.50 Wash, 10 lks. wide, 3 ft. deep, course E.
- 12.95 Sandstone ledge, 8 ft. high, bears N. and S., facing E., approximately 15 ft. wide.
- 26.30 Top of ascent on spur, sloping E.; desc. 85 ft. over N. slope.
- 30.60 Enter S. edge of exposed sandstone surface, bears NE. and NW.
- 38.10 Leave exposed sandstone surface, bears SE. and SW.
- 40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 27 and 28.

Set an iron post, $2\frac{1}{2}$ ins. diam., 15 ins. in the ground, and in a mound of stone, 3 ft. base, with brass cap mkd.

T38S R19E

$\frac{1}{4}$
S28|S27
1957

No suitable bearing trees.

Thence, by triangulation; desc. 70 ft. over N. slope.

- 50.00 S. rim of canyon, bears E. and W., with vertical ledge, approximately 100 ft. high, facing N.
 - 54.00 Wash in canyon bottom, draining E. approximately 1 ch., thence SE. to E. from S. 80° W.
 - 58.00 N. rim of canyon, bears E. and W., with vertical ledge, approximately 120 ft. high, facing S.
- Thence, by chaining; asc. 30 ft. over S. slope.
- 80.00 Point for the cor. of secs. 21, 22, 27 and 28.

Set an iron post, $2\frac{1}{2}$ ins. diam., 10 ins. in the ground, and in a mound of stone, 3 ft. base, with brass cap mkd.

Portion of the subdivision, D. 28 E., R. 19 E.

Chains		Chain
	<p style="text-align: center;">T38S R19E S21 S22 S28 S27 1957</p> <p>No suitable bearing trees.</p> <p>Land, rolling to broken. Soil, sandy, with exposed sandstone surface. Timber, moderate juniper and scattered pinon. Undergrowth, moderate to scattered silverleaf, cacti and some sage.</p>	
	<p>N. 0° 01' E., bet. secs. 21 and 22.</p> <p>Over rolling to broken land, general drainage to SE.</p> <p>Asc. 25 ft. over general S. slope.</p>	
10.70	S. rim of canyon, bears S. 25° E. and N. 30° W., with vertical ledge, approximately 70 ft. high, facing NE.	
23.00	Thence, by triangulation; asc. 70 ft.	
37.80	Wash in canyon, drains SE. Sandstone spur, projects S. 70° E.	
40.00	Point for the ¼ sec. cor. of secs. 21 and 22. Set an iron post, 2½ ins. diam., over a cross (X) on sandstone surface, and in a mound of stone, 3½ ft. base, with brass cap mkd.	
	<p style="text-align: center;">T38S R19E S21 S22 1957</p> <p>Desc. 50 ft.</p>	
46.50	S. rim of canyon, bears S. 40° E. and N. 35° W., with vertical ledge, approximately 50 ft. high, facing NE.	
49.00	Wash, drains SE.	
51.50	N. rim of canyon, bears S. 45° E. and N. 40° W., with vertical ledge, approximately 50 ft. high, facing SW.	
61.55	Thence, by chaining; asc. 40 ft. over SW. slope.	
74.25	Wash, 2 lks. wide, 3 ft. deep, course S. 30° W. from N. 20° W.	
76.85	Top of ascent on spur, sloping E.; desc. 10 ft. over N. slope.	
79.10	Small wash, course E.	
80.00	Point for the cor. of secs. 15, 16, 21 and 22. Set an iron post, 2½ ins. diam., 18 ins. in the ground, and in a mound of stone, 3 ft. base, with brass cap mkd.	
	<p style="text-align: center;">T38S R19E S16 S15 S21 S22 1957</p> <p>No suitable bearing trees.</p>	

Portion of the Subdivision, T. 38 S., R. 19 E.

Chains

Land, rolling to broken.
 Soil, sandy, with exposed sandstone surface.
 Timber, moderate juniper and pinon.
 Undergrowth, moderate to scattered silverleaf, cacti.

N. 0° 01' E., bet. secs. 15 and 16.

Over rolling land, through dense timber, general drainage to SE.

By triangulation; asc. 100 ft. over SE. slope, through dense timber.

35.00 Timber becomes moderate.

40.00 True point for the $\frac{1}{4}$ sec. cor. of secs. 15 and 16 falls in small drain, course SE.

44.60 Point selected for the witness $\frac{1}{4}$ sec. cor. of secs. 15 and 16.

Set an iron post, 2 $\frac{1}{2}$ ins. diam.; 24 ins. in the ground; and in a collar of stone, with brass cap mkd.

T38S R19E

S16 | S15

W C

1957

Deposit a sandstone, 6x4x4 ins., mkd. with a cross (X) alongside the post.

Thence, by chaining; asc. 60 ft. over S. slope.

63.20 Top of ascent on spur, sloping E.; desc. 110 ft. over rolling, general NW. slope.

80.00 Point for the cor. of secs. 9, 10, 15 and 16.

Set an iron post, 2 $\frac{1}{2}$ ins. diam., 15 ins. in the ground, and in a mound of stone, 2 ft. base, with brass cap mkd.

T38S R19E

S 9 | S10

S16 | S15

1957

No suitable bearing trees:

Land, rolling.
 Soil, sandy.
 Timber, dense to moderate juniper and pinon.
 Undergrowth, moderate silverleaf, sage, cacti and some grass.

N. 0° 01' E., bet. secs. 9 and 10.

Over broken land, general drainage SE.

By triangulation, no descent.

9.00 S. rim of canyon, bears N. 80° E. and N. 75° W., with vertical ledge approximately 90 ft. high, facing N.

18.50 Wash in canyon, drains E. to NE.

25.00 N. rim of canyon, bears NW. and SE., with vertical ledge, approximately 50 ft. high, facing SW.

Portion of the Subdivision, T. 38 S., R. 19 E.

Chains		euled
38.00	Point selected for the witness $\frac{1}{4}$ sec. cor. of secs. 9 and 10. Set an iron post, $2\frac{1}{2}$ ins. diam., 10 ins. in the ground, and in a mound of stone, 3 ft. base, with brass cap mkd.	
T38S R19E $\frac{1}{4}$ W C S 9 S 10 1957		
40.00	True point for the $\frac{1}{4}$ sec. cor. of secs. 9 and 10 falls on S. rim of canyon, where it would be impractical to set the monument.	
47.30	Desc. 90 ft.	
52.00	Wash in bottom of canyon, drains SE.	
52.00	N. rim of canyon, bears N. 15° W. and S. 70° E., with vertical ledge, 20 ft. high, facing SW.	
75.50	Thence, by chaining; asc. 10 ft. over S. slope.	
80.00	Point for the cor. of secs. 3, 4, 9 and 10. Set an iron post, $2\frac{1}{2}$ ins. diam., over a cross (X) on sandstone surface, and in a mound of stone, $3\frac{1}{2}$ ft. base, with brass cap mkd.	
T38S R19E S 4 S 3 S 9 S 10 1957		
No suitable bearing trees. Land, rolling to broken. Soil, sandy. Timber, heavy to moderate juniper and piñon. Undergrowth, moderate silverleaf, sage and cacti.		
N. $0^{\circ} 11'$ E., bet. secs. 3 and 4.		
Across canyon, draining S.		
11.45	Top of sandstone spur, sloping SE.	
Thence, by triangulation; desc. 40 ft. over NE, sandstone slope.		
18.15	Point selected for the witness $\frac{1}{4}$ sec. cor. of secs. 3 and 4.	
Set an iron post, $2\frac{1}{2}$ ins. diam., 10 ins. in the ground, and in a mound of stone, $3\frac{1}{2}$ ft. base, with brass cap mkd.		
T38S R19E $\frac{1}{4}$ W C S 4 S 3 1957		
Corner is located on S. rim of canyon, bears E. and W., with vertical ledge, approximately 150 ft. high, facing N.		
29.20	Fork of Fish Creek Canyon, drains S. 70° E.	
40.00	True point for the $\frac{1}{4}$ sec. cor. of secs. 3 and 4 falls in canyon, draining S., where the monument cannot be perpetuated.	
75.50	N. rim of canyon, bears NW. and SE.	

Portion of the Subdivision, T. 38 S., R. 19 E.

Chains

81.50 The cor. of secs. 3, 4, 93 and 94 on the N. bdy. of the township, 150 ft. below the cor. of secs. 3, 4, 9 and 10.

Land, rough, broken canyon.
 Soil, sandy.
 Timber, none.
 Undergrowth, none.

Beginning at the cor. of secs. 1, 2, 35 and 36 on the N. bdy. of the township, heretofore described.

S. 0° 02' W., bet. secs. 1 and 2.

Over rolling land, through dense juniper and pinion.

8.00 Wash, 30 lks. wide, 1 ft. deep, drains NE.

24.00 Wash, 30 lks. wide, 1 ft. deep, drains NE.

25.00 Wash, 30 lks. wide, 1 ft. deep, drains NE.

30.00 Wash, 30 lks. wide, 1 ft. deep, drains NE.

39.00 Wash, 20 lks. wide, 1 ft. deep, drains NE.

41.33 Point for the $\frac{1}{4}$ sec. cor. of secs. 1 and 2.

Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., 14 ins. in the ground, and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T38S R19E

$\frac{1}{4}$
 S 2 | S 1
 1957

57.00 Wash, 50 lks. wide, 1 ft. deep, drains E.

75.00 Spur, sloping SE.

81.33 Point for the cor. of secs. 1, 2, 11 and 12.

Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., over a cross (X) cut in sandstone outcrop, and supported in a mound of stone, 3 ft. base to top, with brass cap mkd.

T38S R19E

S 2 | S 1
 S11 | S12
 1957

Land, rolling.
 Soil, deep sandy.
 Timber, dense juniper and pinion,
 Undergrowth, scattered artemesia.

Chains	entire
	Beginning at the true point for the cor. of secs. 2, 3, 10 and 11, from which its witness cor. bears N. 89° 46' E., 7.25 chs. dist., hereinbefore described.
	S. 0° 02' W., bet. secs. 2 and 3.
	By traverse and triangulation, along the E. rim of Fish Creek.
41.42	True point for the 1/4 sec. cor. of secs. 2 and 3 falls in the bottom of Fish Creek Canyon, which is inaccessible, and the cor. was not monumented.
81.42	True point for the cor. of secs. 2, 3, 10 and 11 falls in the bottom of Fish Creek Canyon, where it is impractical to set the monument.
	N. 89° 51' E., 9.40 chs. dist.
	Point selected for the witness cor. of secs. 2, 3, 10 and 11.
	Set an iron post, 30 ins. long, 2 1/2 ins. diam., over a cross (X) cut in solid sandstone, and supported in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T38S R19E W S 3 S 2 C S10 S11 1957
	Land, canyon rim. Soil, little sandy, mostly exposed sandstone. Timber, scattered juniper and pinion. Undergrowth, scattered artemesia.
	From the cor. of secs. 1, 2, 11 and 12.
	S. 89° 51' W., bet. secs. 2 and 11.
	Over broken land, with a general W. slope.
35.00	Sandstone ledge, 20 ft. high, bears N. and S.
39.92	Point for the 1/4 sec. cor. of secs. 2 and 11.
	Set an iron post, 30 ins. long, 2 1/2 ins. diam., 6 ins. in the ground, and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T38S R19E S 2 S11 1957
44.00	Wash, 10 lks. wide, 1 ft. deep, drains SW.
52.00	Wash, 30 lks. wide, 2 ft. deep, drains S 10° W.
58.00	Spur, sloping S.; desc. 40 ft. over W. slope.
68.00	E. rim of Fish Creek Canyon, bears NE. and SW.
70.44	The witness cor. of secs. 2, 3, 10 and 11.
79.84	True point for the cor. of secs. 2, 3, 10 and 11.

Portion of the Subdivision, T. 38 S., R. 19 E.

Chains

Land, rolling.
Soil, deep sandy, with some exposed sandstone.
Timber, dense juniper and pinion.
Undergrowth, scattered artemesia.

From the cor. of secs. 15, 16, 21 and 22.

S. 89° 54' W., bet. secs. 16 and 21.

Over rolling land, through dense timber, general drainage SE.

Asc. 95 ft. over rolling, general SE. slope to $\frac{1}{4}$ sec. cor.

8.75 Wash, 15 lks. wide, 10 ft. deep, course S.

29.00 Wash, course SE.

40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 16 and 21.

Set an iron post, 2 $\frac{1}{2}$ ins. diam., 18 ins. in the ground, and in a collar of stone, with brass cap mkd.

T38S R19E
 $\frac{1}{4}$ $\frac{S16}{S21}$
1957

Thence, by triangulation; desc. 95 ft. over rolling SW. slope.

53.00 N. rim of canyon, bears NW. and SE., facing SW.

58.00 Forks of canyon, from N. and SW., draining SE.

70.00 Canyon, course NE. from SW.

72.00 N. rim of canyon, bears S. 75° W. and E.

80.00 True point for the cor. of secs. 16, 17, 20 and 21 falls on rough, broken SE. slope of canyon, where it is impractical to set the monument.

Therefore, at a point S. 89° 54' W., 1.74 chs. dist.

Set an iron post, 2 $\frac{1}{2}$ ins. diam., over a cross (X) on sandstone surface, and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T38S R19E
S17 | S16 W
S20 | S21 C
1957

Land, rolling to broken.
Soil, sandy, with exposed sandstone surface.
Timber, heavy to moderate juniper and pinion.
Undergrowth, scattered silverleaf and sage.

North, bet. secs. 16 and 17.

Over rolling land, through dense timber, general drainage to SE.

Asc. 90 ft. over broken SE. slope.

1.00 Rim of canyon, bears N. 75° E. and S. 75° W.

36.50 Rise, bears W. and SE.

Chains	and)
38.60	Wash, drains SE.
40.00	<p>Point for the $\frac{1}{4}$ sec. cor. of secs. 16 and 17.</p> <p>Set an iron post, $2\frac{1}{2}$ ins. diam., 18 ins. in the ground, and in a mound of stone, 2 ft. base, with brass cap mkd.</p>
	<p style="text-align: center;">T38S R19E</p> <p style="text-align: center;">$\frac{1}{4}$</p> <p style="text-align: center;">S17 S16</p> <p style="text-align: center;">1957</p>
	<p>Thence, by triangulation, through dense timber; asc. 80 ft. over general SE. slope.</p>
80.00	<p>Point for the cor. of secs. 8, 9, 16 and 17.</p> <p>Set an iron post, $2\frac{1}{2}$ ins. diam., 18 ins. in the ground, and in a mound of stone, 2 ft. base, with brass cap mkd.</p>
	<p style="text-align: center;">T38S R19E</p> <p style="text-align: center;">S 8 S 9</p> <p style="text-align: center;">S17 S16</p> <p style="text-align: center;">1957</p>
	<p>Land, rolling, general SE. slope. Soil, sandy. Timber, moderate to heavy juniper and pinion. Undergrowth, moderate silverleaf, sage, cacti and some grass.</p>
	<p>From the cor. of secs. 9, 10, 15 and 16.</p> <p>S. $89^{\circ} 56'$ W., bet. secs. 9 and 16.</p> <p>Over rolling land, general drainage NE.</p> <p>Asc. 90 ft. over rolling NE. slope, over numerous small washes draining N. to NE.</p> <p>5.40 Wash, 10 lks. wide, 4 ft. deep, course N.</p> <p>9.15 Wash, .15 lks. wide, 6 ft. deep, course N. to NE.</p> <p>35.00 General drainage changes to SE.</p> <p>39.97 Point for the $\frac{1}{4}$ sec. cor. of secs. 9 and 16.</p> <p>Set an iron post, $2\frac{1}{2}$ ins. diam., 20 ins. in the ground, and in a mound of stone, 2 ft. base, with brass cap mkd.</p>
	<p style="text-align: center;">T38S R19E</p> <p style="text-align: center;">$\frac{1}{4}$ S 9</p> <p style="text-align: center;">S16</p> <p style="text-align: center;">1957</p>
	<p>Thence, by triangulation, over nearly level land.</p>
79.94	<p>The cor. of secs. 8, 9, 16 and 17.</p> <p>Land, rolling. Soil, sandy. Timber, moderate juniper and pinion. Undergrowth, moderate to scattered silverleaf, sage and some Brigham tea.</p>

Portion of the Subdivision, T. 38 S., R. 19 E.

Chains

From the cor. of secs. 4, 5, 32 and 33, on the S. bdy. of the township, mkd. by an iron post, 2 ins. diam., firmly set, mkd. and witnessed as described in the official record.

North, bet. secs. 32 and 33.

Over rolling land, through dense timber, general drainage to SE.

Asc. 110 ft. over rolling S. slope.

7.80 Top of sandstone ledge, 8 ft. high, bears N. 80° W. and S. 80° E., facing SW.

12.30 Old ~~Morgan~~ ~~Trail~~ road, bears NW. and SE.

15.50 Spur, sloping E.; desc. 20 ft. over N. slope, general drainage changes to E.

18.25 Wash, 5 lks. wide, 1 ft. deep, course N. 75° E.

23.45 Top of sandstone ledge, 20 ft. high, bears E. and W., facing N.

Thence, by triangulation; desc. 60 ft. over rolling N. slope, through extremely dense timber.

37.35 Point selected for the witness 1/4 sec. cor. of secs. 32 and 33.

Set an iron post, 2 1/2 ins. diam., 10 ins. in the ground, and in a mound of stone, 3 1/2 ft. base, with brass cap mkd.

T38S R19E
1/4
W C
S32+S33
1957

from which

A pinon, 8 ins. diam., bears N. 70° E., 30 lks. dist., mkd. X BT.

A juniper, 6 ins. diam., bears S. 34 1/2° W., 40 lks. dist., mkd. X BT.

40.00 True point for the 1/4 sec. cor. of secs. 32 and 33 falls in wash, 10 lks. wide, 1 ft. deep, course N. 10° W. from S. 5° E., where it is impractical to set the monument.

Continue to desc. 60 ft. over rolling NE. slope.

43.00 Wash, 35 lks. wide, 4 ft. deep, course S. 80° E. from W.; asc. 120 ft. over rolling, general S. slope, through extremely dense timber.

70.00 Timber becomes moderate.

80.00 Point for the cor. of secs. 28, 29, 32 and 33.

Set an iron post, 2 1/2 ins. diam., 20 ins. in the ground, and in a collar of stone, with brass cap mkd.

T38S R19E
S29 | S28
S32 | S33
1957

Portion of the Subdivision, T. 38 S., R. 19 E.

Chains

from which

A pinon, 6 ins. diam., bears N. 20 $\frac{1}{2}$ ° E. 38 lks. dist., mkd. BT.

A juniper, 6 ins. diam., bears S. 31 $\frac{1}{2}$ ° E., 44 lks. dist., mkd. BT.

No other suitable bearing trees.

Land, rolling, with some exposed sandstone surface.
Soil, sandy.

Timber, dense juniper, moderate pinon.

Undergrowth, moderate silverleaf, Brigham tea, some grass and cacti.

From the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of T. 38 S., R. 19 E., mkd. by a 2 in. iron post, set, mkd. and witnessed as described in the official record.

North, bet. secs. 31 and 32.

Over rolling land, through dense timber, general drainage to NE.

Asc. 30 ft. over slight S. slope.

8.00 Old Mermon Trail road, bears E. and W.; desc. 120 ft. over sandy, general NE. slope to $\frac{1}{4}$ sec. cor.

14.05 Wash, 5 lks. wide, 8 ft. deep, course E.

17.85 Wash, 5 lks. wide, 5 ft. deep, course N. 50° E.

21.55 Wash, 10 lks. wide, 6 ft. deep, course N. 70° E.

27.35 Wash, 10 lks. wide, 15 ft. deep, course N. 80° E.

32.45 Wash, 2 lks. wide, 3 ft. deep, course E.; a seep bears E., approximately 10 chs. dist.

40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 31 and 32.

Set an iron post, 2 $\frac{1}{2}$ ins. diam., 24 ins. in the ground, with brass cap mkd.

T38S R19E

$\frac{1}{4}$
S31|S32

1957

from which

A pinon, 6 ins. diam., bears N. 33 $\frac{1}{2}$ ° E., 17 lks. dist., mkd. $\frac{1}{4}$ S32 BT.

A pinon, 6 ins. diam., bears N. 27 $\frac{1}{2}$ ° W., 55 lks. dist., mkd. BT.

Asc. 10 ft. over rolling land, general N. slope, to sec. cor.

53.30 Wash, 30 lks. wide, 3 ft. deep, course E.

59.05 Wash, 10 lks. wide, 1 ft. deep, course S. 10° W.

60.60 Same wash, course S. 15° E., from N. 10° W.

76.65 Top of short NE. slope.

Portion of the Subdivision T. 38 S., R. 19 E.

Chains

80.00

Point for the cor. of secs. 29, 30, 31 and 32.

Set an iron post, 2½ ins. diam., 24 ins. in the ground, and in a collar of stone, with brass cap mkd.

T38S R19E

S30 | S29

S31 | S32

1957

from which

A pinon, 6 ins. diam., bears N. 12° E., 50 lks. dist., mkd. BT.

A pinon, 4 ins. diam., bears S. 32½° E., 72 lks. dist., mkd. BT.

A pinon, 6 ins. diam., bears S. 15½° W., 81 lks. dist., mkd. BT.

A pinon, 8 ins. diam., bears N. 27½° W., 34 lks. dist., mkd. BT.

Land, rolling.

Soil, sandy with sandy loam.

Timber, dense juniper and pinon.

Undergrowth, moderate silverleaf, sage and cacti.

From the cor. of secs. 28, 29, 32 and 33.

S. 89° 53' W., bet. secs. 29 and 32.

Over rolling land, through heavy timber, general drainage to SW.

Asc. 110 ft. over SE. slope.

19.50

Spur, sloping S., a sandstone ledge, 20 ft. high, bears E. and W., facing S., bears N. 70 lks. dist.; desc. 95 ft. over rolling W. slope.

27.65

Top of sandstone ledge, 5 ft. high, bears N. 30° W. and S. 30° E., facing SW.

36.90

Wash, 10 lks. wide, 1 ft. deep, with exposed sandstone bottom, course S. 20° W.

39.30

Wash, 10 lks. wide, 2 ft. deep, course S.

40.00

Point for the ¼ sec. cor. of secs. 29 and 32.

Set an iron post, 2½ ins. diam., 10 ins. in the ground, and in a mound of stone, 3 ft. base, with brass cap mkd.

T38S R19E

¼ | S29

S32

1957

from which

A pinon, 8 ins. diam., bears N. 49½° E., 42 lks. dist., mkd. BT.

A pinon, 7 ins. diam., bears S. 1° W., 54 lks. dist., mkd. BT.

Chains		meters
	General drainage changes to SE.	
	Asc. 95 ft. over rolling to broken E. slope.	00.08
46.15	Wash, 20 lks. wide, 3 ft. deep, course SE,	
53.90	Wash, 10 lks. wide, 1 ft. deep, course S. 80° E.	
54.85	Same wash, course NE.	
58.25	Wash, 5 lks. wide, 8 ft. deep, course N., heads 50 lks. S.	
66.70	Ent road, bears N. and S. 30° E.	
67.70	Leave timber, bears NE. and SW., thence across exposed sandstone surface; desc. 10 ft. over slight W. slope.	
77.90	Sandstone ledge, 12 ft. high, bears N. and S., facing W.; leave exposed sandstone surface, enter heavy timber, bears N. and S.	
78.20	Wash, 5 lks. wide, 1 ft. deep, course S. 30° E.	
80.00	The cor. of secs. 29, 30, 31 and 32.	
	Land, rolling to broken with scattered, exposed sandstone surface. Soil, sandy. Timber, heavy juniper, moderate pinon. Undergrowth, moderate silverleaf, Brigham tea, some grass and cacti.	

GENERAL DESCRIPTION

The land in this township is mostly gently rolling desert bench land, known as Cedar Mesa. The township is cut by numerous steep sided and box canyons. The drainage is to the southeast, into tributaries of the Colorado River. The soil is principally a sandy clay, with a considerable amount of exposed, broken and eroded sandstone. There is a dense growth of juniper and pinon over most of the township. The undergrowth is mainly sagebrush, with lesser amounts of rabbit brush, yellow brush, mountain rush, silverleaf, bitter brush, grass and weeds. There are no permanent habitants in the township. A considerable amount of prospecting for fissionable minerals has been, and to some extent is still being carried on in the area. The township is accessible by the Mormon Trail Road from Hite to Bluff, bearing east and west, over the southwest portion of the township.

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Alburn D. Griffin	Principal Assistant
Eulon S. Ellett	Chainman
Parley Pratt	Flagman
Max L. Savy	Axeman
Richard N. Brand	Cornerman

CERTIFICATE OF CADASTRAL ENGINEER

I, Fred R. Chappell, HEREBY CERTIFY upon honor the
pursuance of special instructions bearing date of the 2nd day of April 1957
I have surveyed the east boundary and a portion of the subdivision of Township 30
South, Range 19 East

of the Salt Lake Meridian, in the State of Utah, which
represented in the foregoing field notes as having been executed by me and under my direction; and that
said survey has been made in strict conformity with said instructions, the Manual of Instructions for
Survey of the Public Lands of the United States, and in the specific manner described in the foregoing
field notes.

November 6, 1957
Salt Lake City, Utah

Fred R. Chappell
Fred R. Chappell
Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., 1957

The foregoing field notes of the survey of
executed by
having been critically examined and found correct, are hereby approved.

Cadastral Engineering Staff Officer

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in
is a true copy of the original field notes.

Cadastral Engineering Staff Officer

CERTIFICATE OF CADASTRAL ENGINEER

I, Phil D. Smith, HEREBY CERTIFY upon honor the
pursuance of special instructions bearing date of the 2nd day of April

I have surveyed a portion of the subdivision of Township 38 South, Range 19 East

of the Salt Lake Meridian, in the State of Utah, which is
represented in the foregoing field-notes as having been executed by me and under my direction; and that
said survey has been made in strict conformity with said instructions, the Manual of Instructions for the
Survey of the Public Lands of the United States, and in the specific manner described in the foregoing
field notes.

November 6, 1957
Salt Lake City, Utah

Phil D. Smith
Phil D. Smith - Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., _____, 19____

The foregoing field notes of the survey of _____

executed by _____
having been critically examined and found correct, are hereby approved.

Cadastral Engineering Staff Officer.

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____
_____, is a true copy of the original field notes.

Cadastral Engineering Staff Officer.

CERTIFICATE OF CADASTRAL ENGINEER

I, Dell Cazier, HEREBY CERTIFY upon honor the
pursuance of special instructions bearing date of the 2nd day of April

I have surveyed the north boundary and a portion of the subdivision of Township
South, Range 19 East

of the Salt Lake Meridian, in the State of Utah, which
represented in the foregoing field notes as having been executed by me and under my direction; and the
said survey has been made in strict conformity with said instructions, the Manual of Instructions for the
Survey of the Public Lands of the United States, and in the specific manner described in the foregoing
field notes.

November 6, 1957

Salt Lake City, Utah

Dell Cazier
Dell Cazier - Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., _____, 19

The foregoing field notes of the survey of _____

executed by _____

having been critically examined and found correct, are hereby approved.

Cadastral Engineering Staff Officer.

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____
_____, is a true copy of the original field notes.

Cadastral Engineering Staff Officer.

CERTIFICATE OF CADASTRAL ENGINEER

I, Vern E. Lane, HEREBY CERTIFY upon honor that pursuant of special instructions bearing date of the 2nd day of April, 1957 I have ~~surveyed~~ supervised the survey of the east and north boundaries and a portion of the subdivision of T. 38 S., R. 19 E.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed ~~by me and under my direction~~ under my supervision; and the said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

November 6, 1957
Salt Lake City, Utah

Vern E. Lane
Vern E. Lane
Cadastral Surveyor (Chief of Party)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., JUN 17 1958, 19

The foregoing field notes of the survey of the east and north boundaries and a portion of the subdivision of Township 38 South, Range 19 East

executed by Fred R. Chappell, Phil D. Smith, Dell Cazier, undersupervision of Vern E. Lane having been critically examined and found correct, are hereby approved.

Earl G. Harrington
Cadastral Engineering Staff Officer.

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____, is a true copy of the original field notes.

Cadastral Engineering Staff Officer

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
ORIGINAL

FIELD NOTES

OF THE SURVEY

OF A

PORTION OF THE SUBDIVISION

OF

TOWNSHIP 38 SOUTH, RANGE 20 EAST

Of the Salt Lake Meridian,

the State of Utah

EXECUTED BY

Fred R. Chappell - Cadastral Surveyor

Vern E. Lane - Cadastral Surveyor (Chief of Party)

under special instructions dated April 2, 1957, which provided

for the surveys included under Group No. 406, approved April 10, 1957

and assignment instructions dated June 14, 1957

Survey commenced June 30, 1957

Survey completed July 31, 1957

INDEX DIAGRAM

Township 38 South, Range 20 East

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Township 38 South, Range 20 East

Chains

The north boundary of Township 38 South, Range 20 East of the Salt Lake Meridian; Utah was surveyed by Andrew Nelson and J. C. Terry in 1919. The east boundary was surveyed by Robert C. Yundt in 1947. The south and west boundaries were surveyed concurrently under this group and the record appears in the field notes of T. 39 S., R. 20 E. and T. 38 S., R. 19 E., respectively.

The following field notes are those of a survey of a portion of the subdivision considered sufficient in extent to mark the boundaries of those sections normally considered as State school land, and to facilitate the development of the natural resources. The corners along the latitudinal lines were established at the true latitudinal curve, and all corners of the subdivision are established at points calculated to be in the same position they would occupy if the township had been completely subdivided.

The survey was executed with Buff and Buff solar transit, serial No. 26066 being the property of the Bureau of Land Management, and constructed in accordance with their standard specifications. The instrument has full vertical circles and improved type solar attachment. The horizontal plate has two double verniers placed opposite each other, and the vertical circle has one double vernier. All verniers of the transit and solar attachment are graduated to single minutes of arc. The instrument was in good adjustment, and prior to the beginning of the field work it was examined and all errors were eliminated. The instrument was maintained in good adjustment during the survey.

The direction of the lines were determined by the solar transit method.

The geographic position of the southeast corner of the township, determined through ties made to U. S. Geological Survey triangulation station No. "4-108A" in Township 38 South, Range 20 East, section 1, is as follows:

Latitude: 37° 25' 57.06" N.

Longitude: 109° 39' 24.29" W.

The mean magnetic declination was found to be 15° E.

The geographic position of U. S. Geological Survey triangulation station No. "4-108A" in Township 38 South, Range 20 East, section 1, is as follows:

Latitude: 37° 30' 47.68" N.

Longitude: 109° 40' 28.88" W.

The measurements were made with steel ribbon tapes, 8 chains in length. These tapes are graduated every link for the first chain, and thereafter at intervals of 10 links. They were tested by comparison with a Lufkin standard steel tape, one chain in length, and found to be correct. The measurements were made on the slope, the vertical angle of each interval determined by the use of clinometers and the slope distances properly reduced to horizontal equivalents, which appear in these notes. In most cases the distances were determined by chaining, but in some instances they were obtained by triangulation and in others by offsets and traverses. The details of these were thoroughly verified and only the true line distances are given in these notes.

Portion of the Subdivision, T. 38 S., R. 20 E.

Chains	ar:10
	<p>Beginning from the cor. of secs. 1, 2, 35 and 36 on the S. bdy. of the township, mkd. by an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of T. 39 S., R. 20 E.</p> <p>N. 0° 11' E., bet. secs. 35 and 36.</p> <p>Over broken land, through moderate timber.</p> <p>Asc. 260 ft. over S. slope.</p>
28.80	Spur, sloping E.; desc. 70 ft. over N. slope.
40.00	Point for the ¼ sec. cor. of secs. 35 and 36.
	<p>Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.</p> <p style="text-align: center;">T38S R20E ¼ S35 S36 1957</p>
	Continue to descend 35 ft. over N. slope.
55.50	Draw, course SW.; asc. 145 ft. over SE. slope.
75.80	Spur, sloping SW.; desc. 50 ft. over NW. slope.
80.00	Point for the cor. of secs. 25, 26, 35 and 36.
	<p>Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.</p> <p style="text-align: center;">T38S R20E S26 S25 S35 S36 1957</p> <p>Land, broken. Soil, sandy. Timber, moderate pinion and juniper. Undergrowth, moderate sage, bitter brush.</p>
	<p>From the cor. of secs. 25, 30, 31 and 36 on the E. bdy. of the township, mkd. by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record.</p> <p>S. 89° 58' W., bet. secs. 25 and 36.</p> <p>Over rolling to broken land, through moderate timber.</p> <p>Asc. 150 ft. over E. slope.</p>
27.50	Top of ascent on rocky knoll; desc. 65 ft. over W. slope.
40.01	Point for the ¼ sec. cor. of secs. 25 and 36.
	<p>Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground, and in a mound of stone, 3½ ft. base to top, with brass cap mkd.</p> <p style="text-align: center;">T38S R20E ¼ S25 S36 1957</p>

Portion of the Subdivision, T. 38 S., R. 20 E.

Chains	
	Thence, over high, rolling land.
43.50	Spur, sloping SE.
52.00	Head of draw, course SE.
61.00	Spur, sloping N. 20° E.
80.02	The cor. of secs. 25, 26, 35 and 36.
	<p>Land, rolling to broken. Soil, sandy with some sandstone outcroppings. Timber, moderate pinion and juniper. Undergrowth, moderate sage, grasses, bitter brush and apple brush.</p>
	<p>From the cor. of secs. 3, 4, 33 and 34 on the S. bdy. of the township, mkd. by an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of T. 39 S., R. 20 E.</p>
	N. 0° 10' E., bet. secs. 33 and 34.
	Over broken sandstone, through scattered timber.
	Asc. 125 ft. over broken SW. slope.
9.50	Rim of canyon, bears NW. and SE., with broken ledges sloping NE.; desc. 150 ft.
18.50	Base of descent on ledges, bears NW. and SE.; continue to desc. 70 ft. over broken NE. slope.
39.42	Point selected for the witness ¼ sec. cor. of secs. 33 and 34.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	<p style="text-align: center;">T38S R20E ¼ W C S33 S34 1957</p>
	Deposit charcoal at the base of the post.
40.00	True point for the ¼ sec. cor. of secs. 33 and 34 falls in wash channel in bottom of canyon, course S. 20° E., where the monument cannot be perpetuated.
	Thence, through broken bottom of canyon.
77.80	Point selected for the witness cor. of secs. 27, 28, 33 and 34.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.
	<p style="text-align: center;">T38S R20E W C S28 S27 S33 S34 1957</p>
80.00	True point for the cor. of secs. 27, 28, 33 and 34 falls on broken ledges on N. side of canyon, where it is impractical to set the monument.

Portion of the Subdivision, T. 38 S., R. 20 E.

Chains

Land, broken.
Soil, sandy, rocky.
Timber, scattered pinion and juniper.
Undergrowth, moderate to scattered sage and grass.

N. 0° 10' E., bet. secs. 27 and 28.

Over broken land.

By triangulation; asc. 800 ft. over broken ledges facing SW.

12.50 Top of ascent on rim of mesa, bears NW. and SE.

25.00 S. rim of canyon, bears NW. and SE., with broken ledges facing NE.; approx. 200 ft. high.

35.50 Wash in canyon, near head, drains E.

40.00 True point for the $\frac{1}{4}$ sec. cor. of secs. 27 and 28 falls in bottom of canyon, where it is impractical to set the monument.

47.20 Wash in canyon, drains SE.

56.00 N. rim of canyon, bears E. and NW., with broken ledges facing SW., approx. 200 ft. high.

Thence, by chaining.

56.20 Point selected for the witness $\frac{1}{4}$ sec. cor. of secs. 27 and 28.

Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., over a cross (X) on sandstone bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T38S R20E

$\frac{1}{4}$
S28|S27
W C
1957

Asc. 75 ft. over a general S. slope.

80.00 Point for the cor. of secs. 21, 22, 27 and 28.

Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., 20 ins. in the ground, with brass cap mkd.

T38S R20E

S21|S22
S28|S27
1957

Land, broken to rolling.
Soil, sandy, rocky.
Timber, scattered to dense pinion and juniper.
Undergrowth, moderate sage, Indian rice grass, puff weed, bitter brush.

N. 0° 10' E., bet. secs. 21 and 22.

Over rolling land, through dense timber.

Asc. 55 ft. over S. slope.

39.00 Leave timber, bears E. and W.

Portion of the Subdivision, T. 38 S., R. 20 E.

Chains

40.00

Point for the $\frac{1}{4}$ sec. cor. of secs. 21 and 22.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 24 ins. in the ground, with brass cap mkd.

T38S R20E

$\frac{1}{4}$
S21|S22

1957

Deposit charcoal at base of iron post.

Asc. 50 ft. over S. slope.

45.50

Enter timber, bears E. and W.

72.00

Dirt road, bears N. 80° W. and S. 80° E., 7.00 chs. to capped well, G.W.D., No. 1.

80.00

Point for the cor. of secs. 15, 16, 21 and 22.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 22 ins. in the ground, with brass cap mkd.

T38S R20E

S16|S15

S21|S22

1957

Deposit charcoal at base of post.

Land, rolling.

Soil, sandy loam.

Timber, dense pinion and juniper.

Undergrowth, moderate sage, mustard weed.

N. 0° 10' E., bet. secs. 15 and 16.

Over rolling land, through dense timber.

Asc. 10 ft. over rolling, general S. slope.

17.40

Wash, 10 lks. wide, 4 ft. deep, course E.

20.00

Wash, 10 lks. wide, 4 ft. deep, course SE., approx. 2.00 chs. to above wash.

40.00

Point for the $\frac{1}{4}$ sec. cor. of secs. 15 and 16.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 24 ins. in the ground, with brass cap mkd.

T38S R20E

S16|S15

1957

Asc. 20 ft. over S. slope.

43.00

Spur, sloping E.; desc. 15 ft. over N. slope.

67.45

Draw, draining N. 75° E., continue over rolling land.

Chains	Meters
80.00	<p>Point for the cor. of secs. 9, 10, 15 and 16.</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T38S R20E S 9 S10 S16 S15 1957</p> <p>Deposit sandstone, 6x8x2 ins., mkd. with a cross (X) alongside the iron post.</p> <p>Land, rolling. Soil, sandy loam. Timber, dense pinion and juniper. Undergrowth, scattered sage, mustard weed.</p>
20.40	<p>N. 0° 10' E., bet. secs. 9 and 10.</p> <p>Over rolling land, through dense timber.</p> <p>Asc. 25 ft. over rolling S. slope.</p> <p>Spur, sloping E.; desc. 40 ft. over rolling N. slope.</p>
40.00	<p>Point for the ¼ sec. cor. of secs. 9 and 10.</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T38S R20E * S 9 S10 1957</p>
43.60	<p>S. rim of Mule Canyon, bears NE. and SW., with broken ledges, facing NW.</p> <p>Thence by triangulation.</p>
60.50	<p>Wash in Mule Canyon, drains SE. from junction of washes from W. and M.</p>
80.00	<p>True point for the cor. of secs. 3, 4, 9 and 10 falls on inaccessible S. slope of canyon, where it is impractical to set the monument.</p> <p>Land, rolling to broken. Soil, sandy loam, sandy. Timber, dense pinion and juniper. Undergrowth, moderate sage, mustard weed.</p>
17.50	<p>N. 0° 14' E., bet. secs. 3 and 4.</p> <p>Over broken land, through dense timber.</p> <p>By triangulation.</p> <p>N. rim of canyon, bears N. 58° 29' W. and S. 60° E., with broken ledges facing SW.</p>
17.60	<p>Point selected for the witness cor. of secs. 3, 4, 9 and 10.</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on sandstone bedrock, and in a mound of stone, ¾ ft. base to top, with brass cap mkd.</p>

Portion of the Subdivision, T. 38 S., R. 20 E.

Chains

T38S R20E

S 4 | S 3

S 9 | S 10

W C

1957

Thence by chaining.

Desc. 30 ft. over N. slope.

40.00

Point for the $\frac{1}{4}$ sec. cor. of secs. 3 and 4.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., over a cross (X) on sandstone bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.

T38S R20E

 $\frac{1}{4}$

S 4 | S 3

1957

Continue to desc. 30 ft. over N. slope.

66.40

Wash, 15 lks. wide, 2 ft. deep, course SE.

73.40

Wash, 20 lks. wide, 2 ft. deep, course SE.; asc. 35 ft. over S. slope.

80.82

The cor. of secs. 3, 4, 33 and 34 on the N. bdy. of the township, mkd. by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record.

Land, broken.

Soil, sandy, with numerous sandstone outcroppings.

Timber, dense pinion and juniper.

Undergrowth, moderate sage; mustard weed.

Beginning at the cor. of secs. 2, 3, 34 and 35 on the N. bdy. of the township, mkd. by an iron post, 2 ins. diam., conforming to the record.

Thence

S. $0^{\circ} 11'$ W., bet. secs. 2 and 3.

Over nearly level desert land, through dense timber and scant undergrowth.

15.00

Spur, projects E.; desc. 75 ft. over a S. slope.

34.20

N. rim of canyon, bears E. and W.; desc. 255 ft. over a broken S. slope.

40.75

Point for the $\frac{1}{4}$ sec. cor. of secs. 2 and 3.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 10 ins. in the ground to solid rock, and in a mound of stone, with brass cap mkd.

T38S R20E

 $\frac{1}{4}$

S 3 | S 2

1957

Deposit a sandstone rock, 5x4x4 ins., mkd. with a cross (X) at the base of the post.

Portion of the Subdivision, T. 38 S., R. 20 E.

Chains	et al)
	Thence across canyon by triangulation.
46.00	Wash in canyon, drains SE.
64.00	Wash in canyon, drains NE.
66.00	S. rim of canyon, bears E. and W.; asc. 60 ft. over a gentle N. slope.
80.75	Point for the cor. of secs. 2, 3, 10 and 11. Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid rock, and in a mound of stone, with brass cap mkd. <div style="text-align: center;"> T38S R20E S 3 S 2 S10 S11 1957 </div> Deposit a sandstone, 4x4x2 ins., mkd. with a cross (X) at the base of the post. Land, rolling and broken desert. Soil, sandy clay, with exposed sandstone. Timber, dense juniper and pinion. Undergrowth, scant yucca, sagebrush, grass and weeds.
	N. 89° 57' E., bet. secs. 2 and 11. Over rolling and broken desert land, through dense timber and scant undergrowth; desc. 120 ft. over an E. slope.
24.20	Rim of canyon, bears N. 49° W. and S. 49° E.; desc. 470 ft. over a broken NE. slope.
40.00	Point for the ¼ sec. cor. of secs. 2 and 11. Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground to solid rock, and in a mound of stone, with brass cap mkd. <div style="text-align: center;"> T38S R20E ¼ S 2 S11 1957 </div> Deposit a sandstone, 5x5x2 ins., mkd. with a cross (X) at the base of the post. Asc. 25 ft. over a NW. slope.
41.50	Spur, projects N.; desc. 80 ft. over a NE. slope.
53.00	Wash, 40 lks. wide, 3 ft. deep, in bottom of canyon, drains S, 45° E. asc. 40 ft. over a W. slope.
59.20	Small spur, projects S.; thence over a series of sandstone spurs and washes.
80.00	Point for the cor. of secs. 1, 2, 11 and 12. Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd. <div style="text-align: center;"> T38S R20E S 2 S 1 S11 S12 1957 </div> Deposit charcoal at the base of the post.

Section of the Subdivision T-38 S., R. 20 E.

<p>Chutes 40.00</p>	<p>Land, broken desert. Soil, sandy clay, with exposed sandstone. Timber, dense juniper and pinion, with a few cottonwood in the canyon bottom. Undergrowth, scant sagebrush, bitter brush, grass and weeds.</p>
<p>39.50 40.00</p>	<p>N. 0° 02' E., bet. secs. 1 and 2. Over broken desert land, through scattered timber and scant undergrowth; thence along an E. slope. Bottom of canyon, drains S. 30° E.; asc. a broken SW. slope. Point for the 1/4 sec. cor. of secs. 1 and 2, falls on the steep slope of sandstone slick rock, where the cor. cannot be perpetuated.</p>
<p>41.10</p>	<p>Point for the witness 1/4 sec. cor. of secs. 1 and 2 Set an iron post, 30 ins. long, 2 1/2 ins. diam., 8 ins. in the ground to solid rock, and in a mound of stone, with brass cap mkd. T38S R20E 1/4 S2 S1 W.C. 1957</p>
<p>44.90</p>	<p>Deposit a sandstone, 5x3x3 ins., mkd. with a cross (X) at the base of the post. Asc. over a broken SW. slope. Point of sandstone spur, projects W.; desc. along a broken NW. slope changing to a W. slope; thence asc. along a broken SW. slope.</p>
<p>80.50</p>	<p>Sandstone rim, bears N. 10° W. and S. 10° E.</p>
<p>80.66</p>	<p>The cor. of secs. 1, 2, 35 and 36, an iron post, 2 ins. diam., conforming to the record. From which U. S. G. S. Triangulation Station "4-108A", mkd. by a cross (X) in solid sandstone, bears S. 0° 41' 10" E., 35.27 chs. dist. The geographic position of this station is latitude 37° 30' 47.68" N., longitude 109° 40' 28.88" W. Land, broken desert. Soil, sandy clay, with exposed sandstone. Timber, scattered juniper and pinion, with a few cottonwood in the canyon bottom. Undergrowth, scant sagebrush, bitter brush, grass and weeds.</p>
<p>0.20 15.25</p>	<p>Beginning at the cor. of secs. 15, 16, 21 and 22. Thence S. 89° 56' W., bet. secs. 16 and 21. Over gently rolling desert land, through dense timber and scant undergrowth. Wash, 30 lks. wide, 5 ft. deep, drains N.; asc. 75 ft. over a gentle E. slope. Dirt road, bears N. 30° W. and S. 30° E.; desc. 70 ft. over a gentle W. slope.</p>

Portion of the Subdivision, T. 38 S., R. 20 E.

Chains		Notes
40.00	<p>Point for the $\frac{1}{4}$ sec. cor. of secs. 16 and 21, old land Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 22 ins. in the ground, with brass cap mkd.</p>	
	T38S R20E	
	$\frac{1}{4}$ S16 S21	
	1957	
	Deposit charcoal at the base of the post.	
44.70	Sandstone rim, bears N. and S.; desc. 775 ft. over a ledgy W. slope.	68.00
76.50	Wash, in bottom of canyon, drains SW.	00.00
79.10	Point for the witness cor. of secs. 16, 17, 20 and 21.	
	<p>Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 24 ins. in the ground, with brass cap mkd.</p>	
	T38S R20E	
	W S17 S16 C S20 S21	
	1957	
	Deposit a sandstone, 5x4x2 ins, mkd. with a cross (X) at the base of the post.	
80.00	True point for the cor. of secs. 16, 17, 20 and 21 falls in main wash in bottom of canyon, where the cor. cannot be perpetuated.	
	<p>Land, rolling and broken desert. Soil, sandy clay, with exposed sandstone. Timber, dense juniper and pinion, with a few cottonwood in the canyon bottom. Undergrowth, sagebrush, silverleaf, grass and weeds.</p>	
	N. 0° 09' E., bet. secs. 16 and 17.	
	Over broken desert land, through medium timber and scant undergrowth; asc. 260 ft. over a broken SE. slope.	
19.50	Sandstone spur, projects N. 80° E.; desc. 235 ft. over a broken N. slope.	
32.90	Wash in bottom of canyon, drains S. 80° E.	
33.70	Point selected for the witness $\frac{1}{4}$ sec. cor. of secs. 16 and 17.	
	<p>Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 22 ins. in the ground, with brass cap mkd.</p>	
	T38S R20E	
	W C S17 S16	
	1957	
	Deposit charcoal at the base of the post.	
	Thence by triangulation; asc. 720 ft. over a ledgy S. slope.	08.00
		25.21

Portion of the Subdivision, T. 38 S., R. 20 E.

Chains	
40.00	True point for the $\frac{1}{4}$ sec. cor. of secs. 16 and 17 falls on inaccessible ledges.
59.20	N. rim of canyon, bears NE. and SW.; asc. 30 ft. over a gentle S. slope, through dense timber.
80.00	Point for the cor. of secs. 8, 9, 16 and 17.
	Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., over a cross (X) cut in solid sandstone, and in a large mound of stone, with brass cap mkd.
	<p style="text-align: center;">T38S R20E S 8 S 9 S17 S16 1957</p>
	<p>Land, broken desert. Soil, sandy clay, with sandstone outcroppings. Timber, medium juniper and pinion, with scattered cottonwood the first half mile and dense juniper and pinion the balance. Undergrowth, scant sagebrush, mountain rush, yellow top, grass and weeds.</p>
	From the cor. of secs. 9, 10, 15 and 16.
	Thence
	S: 89° 56' W., bet. secs. 9 and 16.
	Over gently rolling land, through dense timber and scant undergrowth; desc. gentle W. slope.
14.00	Wash, 8 lks. wide, 4 ft. deep, drains SE.; asc. 45 ft. over gentle W. slope.
37.35	Top of ascent and dirt road, bears SE. and NW.; desc. 15 ft.
39.98	Point for the $\frac{1}{4}$ sec. cor. of secs. 9 and 16.
	Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., 10 ins. in the ground to solid rock, and in a mound of stone, with brass cap mkd.
	<p style="text-align: center;">T38S R20E S 8 S 9 S17 S16 1957</p>
	Deposit a sandstone, 4x4x3 ins., mkd. with a cross (X) at the base of the post.
	Desc. 25 ft. over a gentle W. slope.
55.40	Wash, 10 lks. wide, 3 $\frac{1}{2}$ ft. deep; drains SW.; desc. 70 ft. over a gentle W. slope.
79.96	The cor. of secs. 8, 9, 16 and 17.
	Land, gently rolling desert.
	Soil, sandy clay.
	Timber, dense juniper and pinion.
	Undergrowth, scant silverleaf, sagebrush, bitter brush, grass and weeds.

Chains

chains

Beginning at the cor. of secs. 4, 5, 32 and 33 on the S. bdy. of the township, mkd. by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record.

Thence

N. 0° 09' E., bet. secs. 32 and 33

Over very gently rolling desert land, through widely scattered timber and medium undergrowth, over a series of gentle sand rises and swales putting to the E.

38.00 Wash, 1 ch. wide, 3 ft. deep, drains N. 75° E.

40.00 Point for the 1/4 sec. cor. of secs. 32 and 33.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.

T38S R20E

S32|S33

1957

Deposit a sandstone, 3x3x3 ins., mkd. with a cross (X) at the base of the post.

Continue over gently rolling land.

75.87 Point selected for the witness cor. of secs. 28, 29, 32 and 33.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., over a cross (X) cut in sandstone, and in a large mound of stone, with brass cap mkd.

T38S R20E

W C

S28|S29

S32|S33

1957

76.00 Rim of mesa, sandstone ledges, 50 ft. high, bears SE. and NW.; desc. 250 ft. over a series of sandstone ledges

80.00 True point for the cor. of secs. 28, 29, 32 and 33 falls on inaccessible sandstone ledges.

Land, gently rolling desert.

Soil, sandy clay, with sandstone ledges in the N. portion.

Timber, widely scattered juniper and pinion.

Undergrowth, medium dense grass and weeds, scattered sagebrush and bitter brush.

Beginning at the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the township, mkd. by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record.

N. 0° 09' E., bet. secs. 31 and 32

3.00 Rocky spur, projects SE.; desc. along a broken E. slope.

40.00 Point for the 1/4 sec. cor. of secs. 31 and 32, on a boulder covered E. slope.

Portion of the Subdivision, T. 38 S., R. 20 E.

Chains

Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to solid rock, and in a mound of stone, with brass cap mkd.

T38S R20E

½
S31|S32
1957

Deposit a sandstone, 4x3x3 ins., mkd. with a cross (X) at the base of the post.

45.00 Wash in bottom of canyon, 2 chs. wide, 3 ft. deep, drains S. 60° E.; asc. over a high ledgy spur, projecting W.

52.50 Top of spur; desc. into canyon.

75.00 Bottom of same canyon, 2 chs. wide, 3 ft. deep, drains S. 80° W.

80.00 Point for the cor. of secs. 29, 30, 31 and 32.

Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd.

T38S R20E

S30|S29
S31|S32
1957

Deposit charcoal at the base of the post.

Land, badly broken desert.

Soil, sandy clay, with a large portion exposed sandstone.

Timber, medium dense juniper and pinion, with scattered cottonwood in the canyon bottom.

Undergrowth, scattered patches of sagebrush, scant bitter brush, grass and weeds.

S. 89° 56' W., bet. secs. 29 and 32.

Counting dist. from the true point for the cor. of secs. 28, 29, 32 and 33; asc. over a broken NE. slope.

10.00 Rim of sandstone ledges, 50 ft. high, bears SE. and NW.

Asc. 95 ft. over an E. slope.

27.00 Top of ascent on spur, projects S.; desc. over a gentle W. slope.

40.05 Point for the ¼ sec. cor. of secs. 29 and 32.

Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd.

T38S R20E

¼ S29
S32
1957

Deposit charcoal at the base of the post.

Desc. 60 ft. over a gentle W. slope.

Chains	
61.25	Set an iron post, .30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a large mound of stone, for the witness point bet. secs. 29 and 32, with brass cap mkd.
	T38S R20E <u>S29</u> S32 W P 1957
61.30	East rim of canyon, sandstone ledges, 40 ft. high, bears N. and S.; desc. over a series of sandstone ledges.
80.10	The cor. of secs. 29, 30, 31 and 32. Land, gently rolling and badly broken desert. Soil, sandy clay, with exposed sandstone. Timber, scattered juniper and pinion, with a few cottonwood in the canyon bottom. Undergrowth, medium sagebrush, grass and weeds.

GENERAL DESCRIPTION

The land in this township varies from the rolling hill land in the eastern portion to the badly broken mesa topped land in the north and west. The township is cut by numerous steep sided and box canyons. The drainage is all to the east, into Comb Wash, which drains in a southerly direction along the east boundary of the township. The soil is principally a sandy clay, with a considerable amount of exposed sandstone in the north and western portion. There is a scattered growth of juniper and pinion in the east portion, and a dense growth of juniper and pinion on the mesa tops in the north and western portion. The undergrowth is mainly sagebrush, with lesser amounts of black brush, bitter brush, mountain rush, silverleaf, wild apple, cacti, grass and weeds. There are no permanent habitants in the township. A considerable amount of prospecting for fissionable minerals has been, and to some extent, is still being carried on in the area.

CERTIFICATE OF CADASTRAL ENGINEER

I, Fred R. Chappell, HEREBY CERTIFY upon honor that
pursuance of special instructions bearing date of the 2nd day of April, 1957,

I have surveyed a portion of the subdivision of T. 38 S., R. 20 E.

of the Salt Lake Meridian, in the State of Utah, which
represented in the foregoing field notes as having been executed by me and under my direction; and t
said survey has been made in strict conformity with said instructions, the Manual of Instructions for
Survey of the Public Lands of the United States, and in the specific manner described in the forego
field notes.

November 8, 1957
Salt Lake City, Utah

Fred R. Chappell
Fred R. Chappell
Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., _____, 1957

The foregoing field notes of the survey of _____
executed by _____
having been critically examined and found correct, are hereby approved.

Cadastral Engineering Staff Office

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____
is a true copy of the original field notes.

Cadastral Engineering Staff Office

CERTIFICATE OF CADASTRAL ENGINEER

I, Vern E. Lane, HEREBY CERTIFY upon honor that, pursuant to special instructions bearing date of the 2nd day of April, 1957, I have supervised the survey of a portion of the subdivision of T. 38 S., R. 20 E.,

of the Salt Lake Meridian, in the State of Utah, which is represented in the foregoing field notes as having been executed under my supervision by Fred R. Chappell; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

November 8, 1957
Salt Lake City, Utah

Vern E. Lane
Vern E. Lane
Cadastral Surveyor (Chief of Party)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., JUN 17 1958, 1958

The foregoing field notes of the survey of a portion of the subdivision of T. 38 S., R. 20 E.,

executed by Fred R. Chappell under the supervision of Vern E. Lane, having been critically examined and found correct, are hereby approved.

Carl G. Harrington
Cadastral Engineering Staff Officer

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____ is a true copy of the original field notes.

Cadastral Engineering Staff Officer

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Original

FIELD NOTES

of the Survey of

the North Boundary

and a Portion of the

Subdivision

of

Township 39 South, Range 17 East

*Page 10, markings
on corner of secs 15, 16,
21 & 22 corrected from*

9	10	to	16	15
16	15		21	22

Of the Salt Lake Meridian,

in the State of Utah

EXECUTED BY

Craig P. Sylvester Cartographic Survey Aid

Dell Cazier Cadastral Surveyor

Vern E. Lane Cadastral Surveyor (Chief of Party)

Under special instructions dated April 2, 1951, which provided

for the surveys included under Group No. 406, approved April 10, 1951.

and assignment instructions dated June 14, 1951.

Survey commenced July 1, 1951.

Survey completed July 17, 1951.

INDEX DIAGRAM

Township 39 South, Range 17 East

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16-56770-1

Craig Sylvester _____
 Dell Cazier _____

200

Township 39 South, Range 17 East

Chains

The east boundary of Township 39 South, Range 17 East of the Salt Lake Meridian, Utah, was surveyed by Robert C. Yundt and Walter H. Good in 1928. The south boundary was surveyed by Robert C. Yundt in 1929, and the west boundary was surveyed by Robert C. Yundt and Charles F. Moore in 1929. The following field notes are those of a survey of the north boundary, and that part of the subdivision considered sufficient in extent to mark the boundaries of those sections normally considered as State School Land, and to facilitate the development of the natural resources. The corners along the latitudinal lines were established at the true latitudinal curve and all corners of the subdivision are established at points calculated to be in the same position they would occupy if the township had been completely subdivided.

The survey was executed with W. and L. E. Gurley solar transits Nos. 461263 and 541325, both being the property of the Bureau of Land Management, and constructed in accordance with their standard specifications. The instruments have full vertical circles and improved type solar attachments. The horizontal plate has two double verniers placed opposite to each other, and the vertical circle has one double vernier. The horizontal verniers of transit No. 541325 are graduated to 30 minutes of arc. All other verniers of the transits and solar attachments are graduated to single minutes of arc. Since the solar attachments were not used no description of them will be included here. The instruments were in good adjustment, and prior to the beginning of the field work they were examined and all errors eliminated. They were maintained in good adjustment during the survey.

The geographic position of the southeast corner of the township, determined through section line ties, made to U. S. Coast and Geodetic triangulation station "Bridges" in Township 37 South, Range 17 East, is as follows. Latitude $37^{\circ} 20' 43.60''$ North and Longitude $109^{\circ} 58' 58.39''$ West. The mean magnetic declination was found to be 15° East.

The direction of the lines of the survey were determined by reference to true meridians established on line by hour angle observations on Polaris or altitude observations on the sun. The lines were carried forward as transit lines and checked by succeeding observations.

The measurements were made with steel ribbon tapes eight chains in length. These tapes are graduated every link for the first chain, and thereafter at intervals of ten links. They were tested by comparison with a Lufkin standard steel tape, one chain in length, and found to be correct. The measurements were made on the slope, the vertical angle of each interval determined by the use of clinometers and the slope distance properly reduced to horizontal equivalents, which appear in these notes. In most cases the distances were determined by chaining, but in some instances they were obtained by triangulation and in others by traverses and offsets. The details of these were thoroughly verified and only the true line distances returned in the notes.

North Boundary, T. 39 S., R. 17 E.

Chains

Start

	Beginning at the cor. of Ts. 38 and 39 S., Rs. 17 and 18 E., an iron post, 3 ins. diam., set, mkd., and witnessed as described in the official records.
	N. 89° 57' W., bet. secs. 1 and 36.
	Over rolling land, through dense timber; desc. 30 ft. over gentle W. slope.
17.00	End of descent; asc. 20 ft. over rolling E. slope.
29.00	Top of ascent, bears N. and S.; desc. 10 ft. over W. slope.
35.40	Small wash, drains S.; asc. 10 ft. over E. slope.
40.00	Point for the 1/4 sec. cor. of secs. 1 and 36.
	Set an iron post, 30 ins. long, 2 1/2 ins. diam., 10 ins. in the ground to bedrock, and in a mound of stone 3 1/2 ft. base, to top, with brass cap mkd.
	T38S R17E
	1/4 S36
	S 1
	T39S
	1957
	Asc. 20 ft. over gentle E. slope.
52.30	Top of ascent, bears N. 20° W. and S.; desc. 40 ft. over SW. slope.
67.00	N. rim of Bullet Canyon, bears N. 65° W. and S. 7 chs., thence S. 70° E.; desc. 185 ft. over ledges facing SW. Beginning of triangulation across Bullet Canyon.
70.33	Point selected for the witness cor. of secs. 1, 2, 35, and 36.
	Set an iron post, 30 ins. long, 2 1/2 ins. diam., on solid rock, over across (X), and in a mound of stone, 4 ft. base, to top, with brass cap mkd.
	T38S R17E
	W S35 S36
	C S2 S1
	T39S
	1957
	Desc. 120 ft. over ledges facing SW. along N. rim of Bullet Canyon.
80.90	Point for the cor. of secs. 1, 2, 35, and 36, falls on inaccessible ledges and cannot be monumented.
	Land, rolling and broken.
	Soil, sand, and exposed sandstone.
	Timber, dense growth of pinion and juniper on rolling slopes.
	N. 89° 57' W. bet. secs. 2 and 35.
	Over broken N. rim of Bullet Canyon; desc. 40 ft. over SW. slope.
8.00	Base of rim, bears N. 70° W. and S. 70° E.; thence over bottom of Bullet Canyon.
15.00	Wash in bottom of Bullet Canyon, drains NW.; cont. over bottom of canyon.
27.00	Base of S. rim of Bullet Canyon, bears NW. and SE.; asc. about 350 ft.

North Boundary, T. 39 S., R. 17 E.

Chains	over steep NE. slope and ledges facing NE.
39.70	Crest of S. rim of Bullet Canyon, bears N. 70° W., and S. 70° E.; thence over point projecting N. End of triangulation.
40.00	Point for the ¼ sec. cor. of secs. 2 and 35. Set an iron post, 30 ins. long, 2½ ins. diam., on solid rock, over a crevice (X), and in a mound of stone, 4-ft. base, to top, with brass cap mkd. T38S R17E S35 S 2 T39S 1957
	Asc. 60 ft. over point projecting N.
59.30	W. crest of point, also S. rim of Bullet Canyon, bears S. 20° W. and N. 20° E.; desc. about 340 ft. over NW. slope and ledges facing NW. Beginning of triangulation; topography is approx. as scaled from U. S. G. S. photogeologic maps.
66.00	Base of ledgy NW. slope, thence over bottom of cove in Bullet Canyon.
70.00	Base of spur, bears N.; asc. 60 ft. over E. slope.
73.00	Top of same spur, slopes N. 7 chs. to end; desc. 60 ft. over W. slope.
80.00	Point for the cor. of secs. 2, 3, 34, and 35, falls on steep W. slope and cannot be monumented. Land, broken. Soil, sand and exposed sandstone. Timber, scattered juniper and pinion.
	N. 89° 57' W. bet. secs. 3 and 34. Over broken land; desc. about 30 ft. over steep W. slope.
1.00	Base of steep W. slope, also wash draining N. 50° W.; thence over bottom of cove in Bullet Canyon.
3.47	Point selected for the witness cor. of secs. 2, 3, 34, and 35. Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base, to top, with brass cap mkd. T38S R17E S34 S35 W S3 S2 C 1957
	Cor. falls on S. bank of wash. Cont. over bottom of cove in Bullet Canyon.
10.00	Base of steep NE. slope and ledges facing NE.; asc. about 350 ft.
18.63	Crest of S. rim of Bullet Canyon, bears N. 30° W. and S. 30° E.; asc. 10 ft. over gentle E. slope. End of triangulation.
40.00	Point for the ¼ sec. cor. of secs. 3 and 34. Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 3½ ft. base, to top, with brass

Chains		meters
	<p>Asc. 95 ft. over rolling E. slope.</p> <p>Top of ascent, bears N. and S.; desc. 90 ft. over rolling W. slope.</p> <p>Point for the cor. of secs. 3, 4, 33, and 34.</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground and in a collar of stone, with brass cap mkd.</p> <p style="text-align: center;">T38S R17E S33 S34 S4 S3 T39S 1957</p> <p>Land, broken and rolling. Soil, sandy clay, and exposed sandstone. Timber, dense growth of juniper and pinion.</p>	
60.60		
80.00		
	<p>N. 89° 57' W. bet. secs. 4 and 33.</p> <p>Over rolling W. slope, through dense timber; desc. 115 ft.</p> <p>Point for the ¼ sec. cor. of secs. 4 and 33.</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 3½ ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T38S R17E S33 S 4 T39S 1957</p> <p>Desc. 50 ft. over rolling W. slope.</p> <p>Slope changes to SW.; desc. 20 ft. along N. rim of a canyon.</p> <p>Point for the cor. of secs. 4, 5, 32, and 33.</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T38S R17E S32 S33 S5 S4 T39S 1957</p> <p>Land, rolling. Soil, sandy clay, and exposed sandstone. Timber, dense growth of juniper and pinion.</p>	
40.00		
71.00		
80.00		

North Boundary. T. 39 S., R. 17 E.

Chains	
	N. 89° 57' W. bet. secs. 5 and 32.
	Along broken N. rim of canyon; desc. 35 ft. over SW. slope.
12.40	Rim, bears S. 60° W. and N. 60° E.; desc. 135 ft. over NW. slope into ravine.
28.00	Bottom of ravine, drains SW.; asc. 45 ft. over ledgy SE. slope.
39.47	Point selected for the witness $\frac{1}{4}$ sec. cor. of secs. 5 and 32.
	Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., 8 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base; to top, with brass cap mkd.
	T38S R17E W $\frac{1}{4}$ S32 C S 5 T39S 1957
40.00	Point for the $\frac{1}{4}$ sec. cor. of secs. 5 and 32 falls on steep sandstone ledge facing E. and cannot be perpetuated.
	Asc. 30 ft. over ledgy SE. slope.
41.00	Top of rim, bears NE. and SW.; asc. 10 ft. over gentle SE. slope.
53.90	Top of ascent; desc. 45 ft. over broken W. slope.
62.30	N. rim of deep canyon, bears N. 15° W., and S. 15° E.; desc. about 300 ft. over ledgy SW. slope. Beginning of triangulation.
80.00	Point for the cor. of secs. 5, 6, 31, and 32, falls on inaccessible ledges and cannot be perpetuated.
	Land, broken and rolling. Soil, sand and exposed sandstone. Timber, dense growth of juniper and pinion on slopes.

	N. 89° 57' W. bet. secs. 6 and 31.
	Over broken land in bottom of inaccessible canyon.
3.00	Wash in bottom of canyon, drains NW.; asc. about 300 ft. over ledgy E. slope.
9.20	Crest of ledgy E. slope, bears S. 20° E., and N. 10° W.; thence over top of point projecting N.
9.29	Point selected for the witness cor. of secs. 5, 6, 31, and 32.
	Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., on solid rock, over a cross (X), and in a mound of stone, 4 ft. base, to top, with brass cap mkd.
	T38S R17E S31 S32 W S6 S5 T39S 1957
	Cont. over top of point on barren sandstone surface.
17.00	W. rim of point, bears N. 20° W. and S. 20° E.; desc. about 300 ft. over ledgy SW. slope, into broken canyon.

North Boundary, T. 39 S., R. 17 E.

Chains	
26.00	Base of SW. slope, also wash in bottom of canyon, drains NW. 12 chs. to junction; asc. about 300 ft. over SE. slope, and ledges facing SW.
35.00	Crest of W. rim of canyon, bears N. 20° W. and S. 20° E.; asc. 20 ft. over gentle E. slope.
39.38	End of triangulation, also top of E. slope.
40.00	Point for the ¼ sec. cor. of secs. 6 and 31.
	Set an iron post, 30 ins. long, 2½ ins. diam., 5 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base, to top, with brass cap mkd.
	<p>T38S R17E ½ S31 S 6 T39S 1957</p>
	Desc. 50 ft. over gentle W. slope, through very scattered timber.
68.90	Wash, 20 lks. wide, 3 ft. deep, drains NW.; asc. 35 ft. over gentle E. slope.
79.20	Top of ascent, bears N. and S.; desc. 25 ft. over gentle W. slope.
85.41	The cor. of Ts. 38 and 39 S., Rs. 16 and 17 E. An iron post, 3 ins. diam., set, mkd., and witnessed as described in the official records.
	<p>Land, broken and rolling. Soil, sand and exposed sandstone. Timber, scattered juniper and pinion, with sagebrush and bunch grass on rolling slopes.</p>

Portion of the Subdivision, T. 39 S., R. 17 E.

	<p>Beginning at the cor. of secs. 1, 2, 35, and 36, on the S. bdy. of the Tp., which is mkd. by an iron post, 2 ins. diam., firmly set, mkd., and witnessed as described in the official record of the survey of the N. bdy. of T. 40 S., R. 17 E.</p>
	N. 0° 01' W., bet. secs. 35 and 36.
	Over rolling land, through dense juniper and pinion.
13.95	Spur, sloping NW.; desc. 60 ft. over NE. slope.
27.00	Wash, drains NW.
29.75	S. rim of canyon, with nearly vertical ledge, 80 ft. high, bears N. 80° W. and S. 80° E.
33.00	Wash, drains W.
37.00	N. rim of canyon, with broken ledges, facing S. 80° W.; asc. 40 ft. over broken, SW. facing ledges.
40.00	Point for the ¼ sec. cor. of secs. 35, and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground and in a mound of stone, 4 ft. base, to top, of post, with brass cap mkd.
	<p>T39S R17E ½ S35 S36 1957</p>
43.80	Low sandy spur, sloping SW.; desc. 20 ft.

Portion of the Subdivision, T. 39 S., R. 17 E.

Chains
45.00
61.75
64.90
70.50
80.00

Wash, 20 lks. wide, 1 ft. deep, drains SW.
Low sandy spur, sloping SW.; asc. 15 ft. over gentle SE. slope.
Leave timber, bears E. and W., thence over nearly level sagebrush covered flat.
Wash, drains W.
Point for the cor. of secs. 25, 26, 35, and 36.
Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, with brass cap mkd.

T39S R17E
S26|S25
S35|S36
1957

Raise a mound of stone, 2 ft. base, 18 ins. high, W. of cor.
No suitable bearing trees available.

Land, rolling.
Soil, deep sandy.
Timber, dense juniper and pinion.
Undergrowth, scattered artemesia under the timber, with dense sagebrush in the clearings.

Beginning at the cor. of secs. 25, 30, 31, and 36, which is mkd. by an iron post, 2 ins. diam., 6 ins. above ground, firmly set, mkd., and witnessed as described in the official record of the survey of the Range Line bet. Rs. 17 and 18 E., T. 39 S.

N. 89° 58' W., bet. secs. 25 and 36.

Over rolling land, with general SW. drainage, through dense juniper and pinion.

Desc. 70 ft. over gentle S. slope to ¼ sec. cor.

21.00
35.00
38.65
39.91

Leave timber, bears N. 20° E. and S. 20° W., thence over sagebrush covered flat.
Wash, 10 lks. wide, 1 ft. deep, drains S. 40° W.
Enter dense juniper and pinion, bears N. 45° E. and S. 45° W.
Point for the ¼ sec. cor. of secs. 25, and 36.

Set an iron post, 30 ins. long, 2½ ins. diam., 18 ins. in the ground, with brass cap mkd.

T39S R17E
¼ S25
S36
1957

Raise a mound of stone, 3 ft. base, 2½ ft. high, N. of cor.
No suitable bearing trees available.

Desc. 50 ft. over gentle SW. slope to sec. cor.

Portion of the Subdivision T₃₉S, R. 17 E.

Chains		miled
56.90	Bulldozed road, bears N. and S. 21 1/2° E. oblv. 1/2 mi. N. of	00.2A
60.10	Wash, 10 lks. wide, 1 ft. deep, drains SW.	23.16
69.20	Leave timber, bears N. 50° E. and S. 50° W., thence over sagebrush covered flat.	00.00
79.82	The cor. of secs. 25, 26, 35, and 36.	00.00
	Land, rolling, Soil, deep sandy. Timber, dense juniper and pinion; undergrowth, scattered artemesia under the timber, with dense sagebrush covering the clearings.	
	From the cor. of secs. 3, 4, 33, and 34, T ₃₉ S and R. 17 E. mkd. by an iron post, 2 ins. diam., set, mkd., and witnessed as described in the official record. N. 0° 02' W., bet. secs. 33 and 34. Over rolling land, through dense timber, general drainage SW. Asc. 60 ft. over general S. slope of mesa.	
3.80	Wash, 30 lks. wide, 3 ft. deep, course S. 70° W.	
26.90	Top of ascent on mesa; desc. 50 ft. over rolling N. slope.	
40.00	Point for the 1/2 sec. cor. of secs. 33 and 34. Set an iron post, 30 ins. long, 2 1/2 ins. diam., 20 ins. in the ground and in a collar of stone, with brass cap mkd.	
	T39S R17E S33 S34 1957	
	Cont. to desc. 15 ft. over N. slope.	
47.95	Wash, draining W., near head of small canyon; asc. 55 ft. over gentl. S. slope.	
76.53	Point selected for the witness cor. of secs. 27, 28, 33, and 34. Set an iron post, 30 ins. long, 2 1/2 ins. diam., over a cross (X) on bedrock, and in a mound of stone, 4 ft. base, to top, with brass cap mkd.	
	T39S R17E W C S28 S27 S33 S34 1957	
	Thence by triangulation.	
80.00	True point for the cor. of secs. 27, 28, 33, and 34, on broken slope, facing NE., on S. rim of canyon, where it is impracticable to set the monument.	
	Land, rolling mesa top. Soil, sandy, with exposed sandstone surface. Timber, dense pinion and juniper. Undergrowth, moderate sage, yellow top, some Brigham tea.	

Portion of the Subdivision, T. 39 S., R. 17 E.

Chains	
	N. 0° 02' W., bet. secs. 27 and 28.
	Over broken land, general drainage SW.
	By triangulation.
10.00	S. rim of S. fork of canyon, with broken vertical ledges, facing NE., bears NW. and SE.; desc. 200 ft.
15.00	Wash in bottom of canyon, course W. from SE.; asc. 200 ft.
20.00	N. rim of S. fork of canyon, with broken vertical ledges, facing SW. bears E. and W.
32.13	Point selected for the witness $\frac{1}{4}$ sec. cor. of secs. 27 and 28. Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on sandstone and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T39S R17E W C $\frac{1}{4}$ S28 S27 1957
40.00	True point for the $\frac{1}{4}$ sec. cor. of secs. 27 and 28, falls on S. edge of middle fork of canyon, with broken vertical ledges, facing NW., bears NE. and NW, approx, 4 chs., thence S. to SW., where the monument cannot be perpetuated; desc. 300 ft.
45.00	Wash channel in bottom of canyon, course SW.; asc. 300 ft.
60.00	N. rim of middle fork of canyon, with broken vertical ledges, facing SE., bears NE. and SW.
67.90	Thence by chaining; desc. 60 ft. over rolling N. slope of spur.
80.00	Point for the cor. of secs. 21, 22, 27, and 28. Set an iron post, 30 ins. long, 2½ ins. diam., 4 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T39S R17E S21 S22 S28 S27 1957
	Land, broken. Soil, sandy, with exposed sandstone surface. Timber, moderate to dense pinion and juniper. Undergrowth, moderate yellow top, sage and some cacti and Brigham tea.
	N. 0° 02' W., bet. secs. 21 and 22.
	Over broken land, general drainage SW.
	By triangulation, over rough, broken slope, facing NW.
9.00	S. rim of N. fork of canyon, with vertical ledges, approx. 50 ft. high, facing N., bears E. and W.; desc. 100 ft.
12.00	Wash channel in bottom of canyon, course W. approx. 5 chs., thence SW.; asc. 100 ft.

Portion of the Subdivision, T. 39 S., R. 17 E.

Chains	
15.00	N. rim of N. fork of canyon, with broken vertical ledges, facing S., bears E. and W.
40.00	Point for the $\frac{1}{4}$ sec. cor. of secs. 21, and 22. Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., 20 ins. in the ground and in a collar of stone, with brass cap mkd.
	T39S R17E * S21 S22 1957
	Thence by chaining; asc. 15 ft. over slight S. slope, through dense timber.
80.00	Point for the cor. of secs. 15, 16, 21, and 22. Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., 22 ins. in the ground and in a collar of stone, with brass cap mkd.
	T39S R17E S16 S16 S21 S22 1957
	Land, broken. Soil, sandy. Timber, moderate to dense pinion and juniper. Undergrowth, moderate sage, yellow top and some Brigham tea.
	N. 0° 02' W., bet. secs. 15 and 16.
	Over rolling land, through heavy timber.
	Asc. 35 ft. over gentle S. slope.
40.00	Point for the $\frac{1}{4}$ sec. cor. of secs. 15 and 16. Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., 8 ins. in the ground to bedrock and in a mound of stone, 4 ft. base to top, with brass cap mkd.
	T39S R17E * S16 S15 1957
	Cont. to asc. 10 ft. over S. slope.
43.25	Top of ascent on ridge, bears E. and W.; desc. 30 ft. over N. slope.
69.70	Dirt road, bears NE. and SW.
78.50	Wash, drains W.
79.10	Dirt road, bears E. and W.
80.00	Point for the cor. of secs. 9, 10, 15, and 16. Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., 22 ins. in the ground and in a collar of stone, with brass cap mkd.
	T39S R17E S 9 S10 S16 S15 1957

Portion of the Subdivision, T. 39 S., R. 17 E.

Chains

Land, rolling.
Soil, sandy.
Timber, moderate to dense pinion and juniper.
Undergrowth, moderate yellow top, sage and bitter brush.

N. 0° 02' W., bet. secs. 9 and 10.

Over rolling land.

- 3.00 Enter moderate timber, bears E. and W.; asc. 25 ft. over S. slope.
- 17.00 Enter clearing at top of ascent; desc. 50 ft. over N. slope.
- 37.35 Wash, 50 lks. wide, 3 ft. deep, course NW.
- 40.00 Point for the 1/4 sec. cor. of secs. 9 and 10.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 20 ins. in the ground and in a mound of stone, 3 ft. base, to top, with brass cap mkd.

T39S R17E
1/4
S 9 | S10
1957

Asc. 45 ft. over rolling land, general S. slope.

- 47.60 Wash, 20 lks. wide, 3 ft. deep, course SW. approx. 5 chs. to junction.
- 58.10 Top of ascent, on rise, bears E. and W.; desc. 10 ft. over rolling N. slope.
- 80.00 Point for the cor. of secs. 3, 4, 9, and 10.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 3 1/2 ft. base, to top, with brass cap mkd.

T39S R17E
S4 | S3
S9 | S10
1957

Land, rolling.
Soil, sandy.
Timber, moderate to scattered pinion and juniper.
Undergrowth, moderate to scattered yellow top, sage, and bitter brush.

N. 0° 21' W., bet. secs. 3 and 4.

Over rolling land.

Desc. 55 ft. over rolling N. slope.

- 22.10 Wash, 30 lks. wide, 4 ft. deep, course W.
- 29.25 Wash, 50 lks. wide, 10 ft. deep, course S. 80° W.; asc. 55 ft. over rolling S. slope.

Chains	Description	Remarks
40.00	<p>Point for the $\frac{1}{4}$ sec. cor. of secs. 3 and 4.</p> <p>Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 18 ins. in the ground, and in a mound of stone, 3 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T39S R17E $\frac{1}{4}$ S4 S3 1957</p>	
	<p>Cont. to asc. 20 ft. over rolling S. slope.</p>	
56.00	<p>Top of ascent on rise, bears E. and W.; desc. 45 ft. over rolling N. slope.</p>	
71.00	<p>Wash, 30 lks. wide, 3 ft. deep, course W.</p>	
80.11	<p>The cor. of secs. 3, 4, 33, and 34, on the N. bdy of the Tp.</p> <p>Land, very rolling. Soil, sandy and sandy loam. Timber, scattered pinion and juniper. Undergrowth, moderate sage and bitter brush.</p>	
	<p>From the true point for the cor. of secs. 1, 2, 35, and 36, on the N. bdy. of the Tp., on N. $89^{\circ}57'$ W., 9.67 chs. from the witness cor. of secs. 1, 2, 35, and 36.</p> <p>S. $0^{\circ}01'$ E., bet. secs. 1 and 2.</p> <p>Over rough, broken land, general drainage NW.</p> <p>By triangulation, through canyon.</p>	
12.00	<p>Spur, approx. 5 chs. wide, projecting W., approx. 4 chs. to end, from N. 75° E.</p>	
17.00	<p>Wash, drains W. in Bullet Canyon.</p>	
30.00	<p>S. rim of canyon, with broken vertical ledges, facing NW. bears E. and S. 30° W.; cont. over rough, broken NW. slope.</p>	
40.04	<p>Point for the $\frac{1}{4}$ sec. cor. of secs. 1 and 2.</p> <p>Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T39S R17E $\frac{1}{4}$ S2 S1 1957</p> <p>Thence by chaining; asc, 35 ft. over rolling NW. slope through dense timber.</p>	
80.04	<p>Point for the cor. of secs. 1, 2, 11, and 12.</p> <p>Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 8 ins. in the ground, to bedrock, and in a mound of stone, $3\frac{1}{2}$ ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T39S R17E $\frac{1}{4}$ S2 S1 S11 S12 1957</p> <p>Land, rough, broken to rolling.</p>	

Portion of the Subdivision, T. 39 S., R. 17 E.

Chains

Soil, sandy, rocky.
Timber, scattered to dense pinion and juniper.
Undergrowth, moderate bitterbrush, sage and some cacti.

N. 89° 59' W., bet. secs. 2 and 11.

Over rolling land, through heavy timber, general drainage NE.
Asc. 85 ft. over rolling E. slope.

40.00

Point for the cor. of secs. 2 and 11.

Set an iron post, 30 ins. long, 2½ ins. diam., 12 ins. in the ground, and in a mound of stone, 3 ft. base, to top, with brass cap mkd.

T39S R17E

¼ S2
S11
1957

Cor. is located on high point of ascent.

Desc. 175 ft. over rolling W. slope, through dense timber.

80.00

Point for the cor. of secs. 2, 3, 10, and 11.

Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

T39S R17E

¾ S3|S2
S10|S11
1957

Mound of stone, 3 ft. X 3 ft., W. of cor.

Land, rolling.

Soil, sandy.

Timber, heavy pinion and juniper.

Undergrowth, moderate sage, bitterbrush, yellow top and some Brigham tea and cacti.

N. 0° 01' E., bet. secs. 2 and 3.

Over rolling land, through moderate timber, general drainage SW.

Asc. 45 ft. over SE. slope.

18.30

Wash, drains W.

Spur, sloping SW.; desc. 40 ft. over N. slope, timber becomes scattered.

40.00

Point for the ¼ sec. cor. of secs. 2 and 3.

Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground, and in a collar of stone, with brass cap mkd.

T39S R17E

¾ S3|S2
1957

41.10

Wash, 30 lks. wide, 3 ft. deep, course W.

41.90

Wash, 30 lks. wide, 3 ft. deep, course S. 80° W., approx. 6 chs. to junction; asc. 20 ft. over S. slope.

Chains							
52.00	Top of ascent on spur, sloping N.; desc. 60 ft. over N. slope, through moderate timber.						
66.60	S. rim of canyon, with vertical ledge, 30 ft. high, facing NE., bears N. 40° W. and S. 45° E. Thence by traverse.						
80.00	The true point for cor. of secs. 2, 3, 34, and 35, on the N. bdy. of the Tp., or S. 89° 57' E., 3.47 chs. from the witness cor. of secs. 2, 3, 34, and 35. Land, rolling to broken. Soil, sandy and rocky. Timber, moderate to scattered pinion and juniper. Undergrowth, moderate sage, bitterbrush, and yellow top,						
From the cor. of secs. 15, 16, 21, and 22. N. 89° 56' W., bet. secs. 16 and 21. Desc. 40 ft. along gentle N. slope, through dense timber.							
5.00	Leave timber, bears NE. and SW.						
24.00	Base of descent; asc. 15 ft. over E. slope.						
40.00	Point for the $\frac{1}{4}$ sec. cor. of secs. 16 and 21. Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., 22 ins. in the ground, with brass cap mkd.						
<p>T39S R17E.</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>$\frac{1}{4}$</td><td>S16</td></tr> <tr><td></td><td>S21</td></tr> <tr><td></td><td>1957</td></tr> </table>		$\frac{1}{4}$	S16		S21		1957
$\frac{1}{4}$	S16						
	S21						
	1957						
Pits, 2 $\frac{1}{2}$ ft. X 2 $\frac{1}{2}$ ft. on N. and S. of monument. Cont. to asc. 10 ft. over E. slope.							
44.40	Top of ascent on slope; desc. 65 ft. along N. slope.						
48.00	Enter moderate timber, bears NE. and SW.						
58.80	Leave timber, bears NE. and SW.						
80.00	Point for the cor. of secs. 16, 17, 20, and 21. Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., 18 ins. in the ground, and in a mound of stone, 3 ft. base, to top, with brass cap mkd.						
<p>T39S R17E</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>S17</td><td>S16</td></tr> <tr><td>S20</td><td>S21</td></tr> <tr><td></td><td>1957</td></tr> </table>		S17	S16	S20	S21		1957
S17	S16						
S20	S21						
	1957						
Land, gentle sloping. Soil, sandy and sandy loam. Timber, moderate to scattered pinion and juniper. Undergrowth, moderate sage, bitterbrush and yellow top.							

01.11
06.1A

Portion of the Subdivision, T. 39 S., R. 17 E.

Chains

N. 0° 03' W., bet. secs. 16 and 17.

Over rolling land, through scattered pinion and juniper.

Desc. 30 ft. over rolling N. slope.

5.10 Dirt road, bears NE. and SW.

16.40 Wash, 40 lks. wide, 4 ft. deep, course S. 60° W.; asc. 60 ft. over rolling S. slope.

40.00 Point for the 1/4 sec. cor. of secs. 16 and 17.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 20 ins. in the ground, with brass cap mkd.

T39S R17E
1/4
S17 | S16
1957

Cont. to asc. 20 ft. over rolling S. slope.

45.80 Top of ascent on rise, bears E. and W.; desc. 25 ft. over N. slope.

58.00 Small wash, course W.; asc. 20 ft. over S. slope.

80.00 Point for the cor. of secs. 8, 9, 16, and 17.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, with brass cap mkd.

T39S R17E
1/4
S8 | S9
S17 | S16
1957

Land, rolling.

Soil, sandy and sandy loam.

Timber, scattered pinion and juniper.

Undergrowth, scattered to moderate sage, Brigham tea and bitterbrush, some cacti.

From the cor. of secs. 9, 10, 15, and 16.

N. 89° 56' W., bet. secs. 9 and 16.

Over rolling land, draining NW., through reseeded area.

Desc. 20 ft. over rolling NW. slope.

40.00 Point for the 1/4 sec. cor. of secs. 9 and 16.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, and in a collar of stone, with brass cap mkd.

T39S R17E
1/4
S9
S16
1957

Cont. to desc. 25 ft. over rolling NW. slope.

50.00 Slope changes to N.

52.00 Leave reseeded area.

Portion of the Subdivision, T. 39 S., R. 17 E.

Chains		and/or
59.10	Enter timber, bears NE. and SW. 10.90 NW	
76.50	Dirt road, bears N. 70° W. and S. 70° E.	
80.00	The cor. of secs. 8, 9, 15, and 16.	
	Land, rolling.	
	Soil, sandy.	
	Timber, scattered pinon and juniper.	
	Undergrowth, moderate to scattered grass, bitterbrush and sage.	
	From the cor. of secs. 4, 5, 32 and 33, on the S. bdy. of the Tp., mkd. by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record.	
	N. 0° 03' W., bet. secs. 32 and 33.	
	Over rough, broken land.	
	By triangulation.	
5.00	Wash at bottom of canyon, draining SW.	
11.00	S. rim of spur, bears N. 70° E. and S. 70° W.	
20.00	N. rim of spur, bears N. 70° E. and S. 70° W., approx. 20 chs. to end.	
31.50	Wash, drains SW.	
34.00	Rim of canyon, bears N. 70° E. and S. 70° W.	
	Thence by chaining, over nearly level land.	
40.00	Point for the ¼ sec. cor. of secs. 32 and 33.	
	Set an iron post, 30 ins. long, 2½ ins. diam., 15 ins. in the ground and in a mound of stone, 3 ft. base, to top, with brass cap mkd.	
	T39S R17E S32 S33 1957	
42.00	Rim of canyon, bears N. 60° E. and S. 60° W., with broken ledges facing NW.	
	Thence by triangulation.	
64.00	Wash, drains W.	
74.00	Rim of canyon, bears N. 60° E. and S. 60° W., with broken ledges, facing SE.	
	Thence by chaining; asc. 50 ft. over broken SE. slope of ledge.	
80.00	The true point for the cor. of secs. 28, 29, 32, and 33 falls on broken SE. slope of ledge, where it is impracticable to set the monument.	
	Land, rough, broken.	
	Soil, sandy.	
	Timber, scattered pinon and juniper.	
	Undergrowth, scattered sage, bitterbrush, and cacti.	

Portion of the Subdivision, T. 39 S., R. 17 E.

Chains From the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the Tp., mkd. by an iron post, 2 ins. diam., set, mkd. and witnessed as described in the official record.

1.00 N. 0° 08' W., bet. secs. 31 and 32.

Over broken, exposed sandstone surface, through scattered timber.

Desc. 95 ft. over broken N. slope.

3.00 Small wash, course SW.

40.00 Point for the 1/4 sec. cor. of secs. 31 and 32.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., over a cross (X) on sandstone bedrock, and in a mound of stone, 4 ft. base, to top, with brass cap mkd.

T39S R17E

1/4

S31|S32

1957

Cont. to desc. 110 ft. over broken N. slope.

47.20 Wash, 30 lks. wide, 4 ft. deep, course N. 40° W.; asc. 50 ft. over SW. slope.

54.30 Spur, sloping NW., approx. 8 chs. to end; desc. 80 ft. over NE. slope.

58.20 Wash, 50 lks. wide, 4 ft. deep, course W., approx. 8 chs. to junction with above wash; asc. 225 ft. over broken S. slope.

64.75 S. rim of mesa, bears E. and W.; cont. to asc. 15 ft. over S. slope.

76.70 Top of ascent; desc. 45 ft. over N. slope.

80.00 Point for the cor. of secs. 29, 30, 31, and 32.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 15 ins. in the ground, and in a mound of stone, 3 ft. base, to top, with brass cap mkd.

T39S R17E

S30|S29

S31|S32

1957

Land, broken, with exposed sandstone surface.
Soil, sandy, rocky.
Timber, scattered pinion and juniper.
Undergrowth, scattered sage, bitterbrush, and cacti.

From the true point for cor. of secs. 28, 29, 32, and 33.

S. 89° 53' W., bet. secs. 29 and 32.

Over broken land, through scattered timber.

Asc; 65 ft. over SE. slope of ledge.

5.45 Rim of ledge, bears N. 60° E. and S. 60° W.

Portion of the Subdivision, T. 39 S., R. 17 E.

Chains

6.52

Point selected for the witness cor. of secs. 28, 29, 32, and 33.

Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on sandstone bedrock, and in a mound of stone, 4 ft. base, to top, with brass cap mkd.

T39S R17E

S29 | S28 W

S32 | S33 C.

1957

Asc. 110 ft. over E. slope.

26.25

Top of ascent on spur, sloping S; desc. 160 ft. over broken SW. slope.

40.13

Point for the ¼ sec. cor. of secs. 29 and 32.

Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on sandstone bedrock, and in a mound of stone, 4 ft. base, to top, with brass cap mkd.

T39S R17E

S29

S32

1957

Thence over broken exposed sandstone surface, slight S. slope.

80.26

The cor. of secs. 29, 30, 31 and 32.

Land, broken, with exposed sandstone surface.

Soil, sandy, rocky.

Timber, scattered pinion and juniper.

Undergrowth, scattered bitterbrush, sage, and cacti.

General Description

The land in the township is mainly rolling desert bench land known as Cedar Mesa. The township is cut by numerous steep sided and box canyons. The drainage is mainly to the south and west, while the northern portion drains in a northwesterly direction. The soil is principally a shallow sandy clay, with a considerable amount of broken and eroded sandstone. There is a dense growth of juniper and pinion over most of the township, with scattered cottonwood in the canyon bottoms. The undergrowth is mainly sagebrush, with lesser amounts of black brush, yellow brush, bitter brush, mountain rush, silverleaf, grass and weeds. There are no permanent habitants in the township. A considerable amount of prospecting for fissionable minerals has been and to some extent is still being carried on in the area.

CERTIFICATE OF CADASTRAL ENGINEER

I, Craig P. Sylvester, HEREBY CERTIFY upon honor that, pursuant of special instructions bearing date of the 2nd day of April, 1958. I have surveyed the north boundary and a portion of the subdivision of T. 39 S., R. 17 E.

of the Salt Lake Meridian, in the State of Utah, which is represented in the foregoing field notes as having been executed by me and under my direction; and the said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

February 10, 1958
Salt Lake City, Utah

Craig P. Sylvester
Craig P. Sylvester
Cartographic Survey Aid

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., _____, 1958

The foregoing field notes of the survey of _____

executed by _____
having been critically examined and found correct, are hereby approved.

Cadastral Engineering Staff Officer.

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____, is a true copy of the original field notes.

Cadastral Engineering Staff Officer.

CERTIFICATE OF CADASTRAL ENGINEER

I, Dell Cazier, HEREBY CERTIFY upon honor that
pursuance of special instructions bearing date of the 2nd day of April, 1958
I have surveyed a portion of the subdivision of T. 39 S., R. 17 E.

of the Salt Lake Meridian, in the State of Utah, which is
represented in the foregoing field notes as having been executed by me and under my direction; and the
said survey has been made in strict conformity with said instructions, the Manual of Instructions for the
Survey of the Public Lands of the United States, and in the specific manner described in the foregoing
field notes.

February 10, 1958
Salt Lake City, Utah

Dell Cazier
Dell Cazier
Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., 1958

The foregoing field notes of the survey of
executed by
having been critically examined and found correct, are hereby approved.

Cadastral Engineering Staff Officer

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in
is a true copy of the original field notes.

Cadastral Engineering Staff Officer

CERTIFICATE OF CADASTRAL ENGINEER

I, Vern E. Lane, HEREBY CERTIFY upon honor that
pursuance of special instructions bearing date of the 2nd day of April, 1957
I have supervised the survey of the north boundary and a portion of the
subdivision of T. 39 S., R. 17 E.

of the Salt Lake Meridian, in the State of Utah, which
under my supervision
represented in the foregoing field notes as having been executed
said survey has been made in strict conformity with said instructions, the Manual of Instructions for
Survey of the Public Lands of the United States, and in the specific manner described in the foregoing
field notes.

November 14, 1957

Salt Lake City, Utah

[Signature of Vern E. Lane]

Vern E. Lane

Cadastral Surveyor (Chief of Party)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,

Washington, D. C., JUN 17 1958

The foregoing field notes of the survey of the north boundary and a portion of the
subdivision of T. 39 S., R. 17 E., Salt Lake Meridian, Utah

executed by under the supervision of Vern E. Lane, (Chief of Party)

having been critically examined and found correct, are hereby approved.

[Signature of Carl G. Harrington]

Cadastral Engineering Staff Officer

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in
is a true copy of the original field notes.

Cadastral Engineering Staff Officer

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES

of the

Completion Survey of the Subdivision

of

Township 38 South, Range 21 East

Of the Salt Lake Meridian,

In the State of Utah

EXECUTED BY

Robert C. Yundt, Cadastral Engineer

Under special instructions dated May 26, 1947, which provided for the surveys included under Group No. 358 Utah, approved June 4, 1947 and assignment instructions dated March 27, 1952 and April 29, 1953.

Survey commenced June 11, 1953

Survey completed July 31, 1953

INDEX DIAGRAM

Township 38 South , Range 21 East

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28			18		17		10		2
21	22		23	16	24	9	25	1	26
31									

all

TOWNSHIP 38 SOUTH, RANGE 21 EAST

Chains

The east boundary of T. 38 S., R. 21 E., was surveyed by Joseph C. Thoma and Daniel B. Miller in 1912; the north boundary by Andrew Nelson and Chauncy B. Terry in 1919; and the south and west boundaries and the fifth range of sections excepting section 5, by Robert C. Yundt in 1947. The following field notes are those of a survey of the remaining subdivisional lines, completing the survey of the township.

This survey was executed with Buff and Buff solar transit No. 26594, property of the Bureau of Land Management. The instrument is equipped with a horizontal plate, with two double verniers and has a full vertical circle with one double vernier. All verniers are graduated to single minutes of arc. Since the solar attachment was not used, no description of it will be included here. The instrument was in good condition and prior to the beginning of the field work was tested and found free from error. It was maintained in good adjustment throughout the field work.

The measurements were made with Chicago steel ribbon tapes, eight chains in length. These tapes are graduated every link for the first chain and thereafter at intervals of ten links. The measurements were made on the slope, the vertical angle of each interval determined by the use of clinometers and the slope distances properly reduced to horizontal equivalents for use in these notes.

The geographic position of the southeast corner of the township, according to the data accompanying the special instructions, is as follows:

Latitude 37° 25' 57" N.; longitude 109° 32' 53" W.

The mean magnetic declination is approximately 14° 30' E.

The bearings of the lines of the survey were determined by the altitude observations upon the sun and hour angle observations on Polaris, all made on line.

Beginning at the cor. of secs. 1, 2, 35, and 36 on the south boundary of the township, marked by an iron post, 2 ins. in diam., conforming to the record.

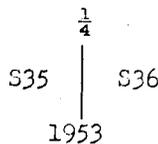
Thence

N. 0° 08' E., bet. secs. 35 and 36.

Over rolling land, through scattering timber and medium dense undergrowth.

40.00 At the $\frac{1}{4}$ sec. cor. of secs. 35 and 36.

Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. in diam., 26 ins. in the ground, with brass cap marked.



Deposit broken glass at the base of the post.

42.30 Shallow draw, drains SW.

65.35 Unimproved road, bears NW. and SE.

80.00 At the cor. of secs. 25, 26, 35, and 36.

Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. in diam., 24 ins. in the ground, with brass cap marked

SUBDIVISION OF T. 38 S., R. 21 E.

Chains

T38S	R21E
S26	S25
S35	S36

1953

Deposit broken glass at the base of the post.

Land, rolling mesa top.

Soil, deep gravelly clay loam.

Timber, dwarf juniper

Undergrowth, black brush, bitter brush, weeds and grass.

Beginning at the cor. of secs. 25, 30, 31, and 36 on the east boundary of the township, marked by an iron post, 3 ins. in diam., conforming to the record.

Thence

S. 89° 55' W., bet. secs. 25 and 36.

Over rolling land, through widely scattered timber and dense undergrowth.

26.50 Shallow wash, drains SW.

40.09 At the $\frac{1}{4}$ sec. cor. of secs. 25 and 36.Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 25 ins. in the ground, with brass cap marked

	S25
$\frac{1}{4}$	—
	S36

from which

1953

A juniper, 10 ins. diam., marked $\frac{1}{4}$ S25 BT., bears N. 47° 30' E., 76 lks. dist.A juniper, 8 ins. in diam., marked $\frac{1}{4}$ S36 BT., bears S. 6° 00' W., 136 lks. dist.

47.70 Unimproved road, bears S. 10° W. and N. 10° E.

67.90 Unimproved road, bears N. and S.

80.18 The cor. of secs. 25, 26, 35, and 36.

Land, rolling mesa top.

Soil, gravelly clay loam.

Timber, dwarf juniper.

Undergrowth, blackbrush, sagebrush, bitter brush, weeds, and grass.

N. 0° 08' E., bet. secs. 25 and 26.

Over rolling land, through widely scattered timber and medium dense undergrowth.

32.50 Unimproved road, bears E. and W.

36.00 Shallow wash, drains SW.

40.00 At the $\frac{1}{4}$ sec. cor. of secs. 25 and 26.Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 24 ins. in the ground, with brass cap marked

SUBDIVISION OF T. 38 S., R. 21 E.

Chains

$\frac{1}{4}$
 S26 | S25
 1953

Deposit broken glass at the base of the post.

80.00

At the cor. of secs. 23, 24, 25, and 26.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 24 ins. in the ground, with brass cap marked.

T38S	R21E
S23	S24
S26	S25

1953

from which

A juniper, 8 ins. in diam., marked T38S R21E S24 BT., bears N. 16° 00' E., 279 lks. dist.

Land, rolling mesa top.
Soil, gravelly clay loam.
Timber, dwarf juniper.

Undergrowth, blackbrush, sagebrush, bitter brush, weeds, and grass.

Beginning at the cor. of secs. 19, 24, 25, and 30 on the E. boundary of the Township, marked by an iron post, 3 ins. in diam., conforming to the record.

Thence

S.89°52'W., bet. secs. 24 and 25.

Over broken land, through scattering timber and medium dense undergrowth.

12.30

Draw, drains NE.; asc. along a broken E. slope.

27.00

Rim of mesa, bears NW. and SE.; continue over rolling top.

40.09

At the $\frac{1}{4}$ sec. cor. of secs. 24 and 25.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 25 ins. in the ground, with brass cap marked

S24
$\frac{1}{4}$
S25

1953

from which

A juniper, 3 ins. in diam., marked BT., bears N. 19°00' E, 180 lks. dist.

A juniper, 12 ins. in diam., marked $\frac{1}{4}$ S25 BT., bears S11°00' W., 228 lks. dist.

74.90

Unimproved road, bears NW. and SE.

78.10

Unimproved road, bears N. 10° W. and S. 10° E.

80.10

The cor. of secs. 23, 24, 25, and 26.

SUBDIVISION OF T. 38 S., R. 21 E.

Chains

5125

Land, broken in the east, rolling in the west.
Soil, gravelly to rocky clay loam.
Undergrowth, blackbrush, sagebrush, bitter brush, weeds, and grass.
Timber, dwarf juniper.

N. 0°08' E., bet. secs. 23 and 24.

Over rolling land, through scattering timber and scant undergrowth.

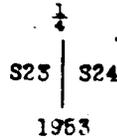
4.50 Unimproved road, bears NW. and SE.

12.10 Unimproved road, bears N. 10° W. and S. 10° E.

31.30 Draw, drains N. 60° E.

40.00 At the $\frac{1}{4}$ sec. cor. of secs. 23 and 24.

Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. in diam., 10 ins. in the ground, to solid rock, and in a mound of stone, with brass cap marked



from which

A juniper, 10 ins. in diam., marked $\frac{1}{4}$ S24 BT., bears S. 57°00' E., 67 lks. dist.

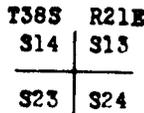
A juniper, 10 ins. in diam., marked $\frac{1}{4}$ S23 BT., bears S. 88°45' W., 164 lks. dist.

57.50 Wash, drains N. 70° E.

76.90 Wash, drains E.

80.00 At the cor. of secs. 13, 14, 23, and 24.

Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. in diam., 25 ins. in the ground, with brass cap marked



1953

from which

Juniper, 3 ins. in diam., marked S13 BT, bears N. 38°30' E., 111 1/2 lks. dist.

Juniper, 3 ins. in diam., marked BT., bears S. 66°30' E., 45 lks. dist.

Juniper, 14 ins. in diam.; marked T38S R21S S23 BT., bears S. 53°00' E., 82 lks. dist.

Deposit broken glass at the base of the post.

Land, rolling mesa top.
Soil, gravelly, clay loam.
Timber, dwarf juniper.
Undergrowth, blackbrush, sagebrush, bitter brush, weeds, and grass.

SUBDIVISION OF T. 38 S., R. 21 E.

Chains	
	Beginning at the cor. of secs. 13, 18, 19, and 24, on the east boundary of the township, marked by an iron post, 3 ins. in diam., conforming to the record.
	Thence
	S. 89°48' W., bet. secs. 13 and 24.
	Over broken land, through scattering timber, and scant undergrowth; desc. 135 ft. along a SW. slope.
12.90	Draw, drains SE.; asc. 95 ft. along a SE. slope.
25.90	Spur, projects SE.; desc. 35 ft. along a SW. slope.
35.10	Draw, drains SE.; asc. 65 ft. along an E. slope.
40.10	At the $\frac{1}{4}$ sec. cor. of secs. 13 and 24, on a spur projecting SE.
	Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 15 ins. in the ground, and in a mound of stone, with brass cap marked
	$\frac{1}{4} \frac{S13}{S24}$
	1953
	from which
	A juniper, 4 ins. in diam., marked $\frac{1}{4}$ S24 BT., bears S. $2\frac{1}{2}$ lks. dist.
	Desc. 25 ft. along a SW. slope.
51.10	Draw, drains SE.; asc. 205 ft. along an E. slope.
70.90	Sandstone ledge, 20 ft. high, bears N. 10° W. and S. 10° E.; continue along rolling top.
80.20	The cor. of secs. 13, 14, 23, and 24.
	Land, broken slopes in the E. and rolling in the W. Soil, gravelly to rocky clay loam. Timber, dwarf juniper and pinon. Undergrowth, blackbrush, sagebrush, bitter brush, weeds, and grass.
	N. 0°08' E., bet. secs. 13 and 14.
	Over rolling land, through scattering timber and scant undergrowth.
15.00	Draw, drains E.
18.80	Draw, drains SE.
40.00	At the $\frac{1}{4}$ sec. cor. of secs. 13 and 14.
	Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 25 ins. in the ground, with brass cap marked
	$\frac{1}{4} \frac{S14}{S13}$
	1953
	from which
	A juniper, 6 ins. in diam., marked $\frac{1}{4}$ S13 BT., bears N. 53°30' E., 91 lks. dist.
	A juniper 6 ins. in diam., marked $\frac{1}{4}$ S14 BT., bears N. 26°00' W., 164 lks. dist.

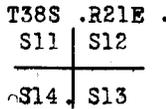
SUBDIVISION OF T. 36 S., R. 21 E.

Chains

80.00

At the cor. of secs. 11, 12, 13, and 14.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 22 ins. in the ground, to solid rock, and in a mound of stone, with brass cap marked



1953.

from which

A juniper, 3 ins. in diam., marked BT., bears N. 54°00' E., 77 lks dist.

A juniper, 3 ins. in diam., marked BT., bears S. 48°00' E., 58 lks dist.

A juniper, 4 ins. in diam., marked S14 BT., bears S. 42°30' W., 61 lks. dist.

A juniper 3 ins. in diam., marked BT., bears N. 62°30' W., 65 lks. dist.

Land, rolling mesa top.

Soil, sandy to gravelly clay loam.

Timber, dwarf juniper.

Undergrowth, blackbrush, sagebrush, bitter brush, weeds, and grass.

Beginning at the cor. of secs. 7, 12, 13, and 18 on the E. boundary of the township, marked by an iron post, 3 ins. in diam., conforming to the record.

Thence

S. 89°45' W., bet. secs. 12 and 13.

Over broken land through scattering timber and scant undergrowth; asc. 275 ft. over broken SE. slope.

23.00

Sandstone ledge, about 20 ft. high, bears N. 20° W. and SE.

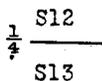
29.20

Spur, projects S. about 20 chs. to end; desc. 165 ft. along a broken SW. slope.

40.10

At the $\frac{1}{4}$ sec. cor. of secs. 12 and 13.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 20 ins. in the ground, to solid rock, and in a mound of stone, with brass cap marked



1953.

from which

A juniper, 4 ins. in diam., marked $\frac{1}{4}$ S13 BT., bears S. 60°30' E., 76 lks. dist.

A pinon, 3 ins. in diam., marked BT., bears N. 77°00' W., 51 lks. d

Desc. 35 ft. along a SW. slope.

46.50

Draw, drains SE.; asc. 95 ft. along a SE. slope.

52.70

Sandstone ledge, 15 ft. high, bears NW. and SE.

SUBDIVISION OF T38 S., R21 E.

Chains

53.80 Spur, projects S., desc. 80 ft. along a SW. slope.

55.00 Sandstone ledge, 15 ft. high, bears NW. and SE.

63.20 Draw, drains SE.; asc. 145 ft. along a NE. slope.

70.00 Small draw, drains N. 80° E.

74.30 Sandstone ledge, about 10 ft. high, bears N. and S.; continue over rolling top.

80.20 The cor. of secs. 11, 12, 13, and 14.

Land, rough and broken slopes.
Soil, rocky clay loam.
Timber, dwarf juniper and pinon.
Undergrowth, blackbrush, sagebrush, bitter brush, weeds and grass.

N. 09°08' E. bet. secs. 11 and 12.

Over broken land, through scattering timber and scant undergrowth; desc. 75 ft. along a NE. slope.

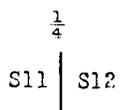
8.70 Sandstone ledge, bears NW. and S. 80° E.

12.95 Draw, drains SE.; asc. 130 ft. along a broken SW. slope.

17.00 Sandstone ledge, 30 ft. high, bears NW. and SE.; continue ascent along a SW. slope.

40.00 At the $\frac{1}{4}$ sec. cor. of secs. 11 and 12.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 24 ins. in the ground, with brass cap marked



1953

from which

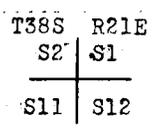
A juniper, 13 ins. in diam., marked $\frac{1}{4}$ S12 BT., bears N. 65°30' E., 74 lks. dist.

A juniper, 10 ins. in diam., marked $\frac{1}{4}$ S11 BT., bears N. 44°30' W., 49 lks. dist.

75.10 Spur, projects SE.; desc. along a N. slope.

80.00 At the cor. of secs. 1, 2, 11, and 12.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 24 ins. in the ground, with brass cap marked



1953.

from which

A juniper 6 ins. in diam., marked T38S R21E S1 BT., bears N. 25°00' E., 91 lks. dist.

A juniper, 5 ins. in diam., marked T38S R21E S12 BT., bears S. 81° 45' E., 64 lks. dist.

SUBDIVISION OF T. 36 S., R. 21 E.

Chains

A juniper, 4 ins. in diam., marked S2 BT., bears N. 12°45' W., 118 lks. dist.

Land, rolling.
Soil, gravelly clay loam.
Timber, dwarf juniper and pinon.
Undergrowth, blackbrush, sagebrush, bitter brush, weeds and grass.

Beginning at the cor. of secs. 1, 6, 7, and 12 on the E. boundary of the township, marked by an iron post, 3 ins. in diam., conforming to the record.

Thence

S. 89°43' W., bet. secs. 1 and 12.

Over broken land, through scattering timber and scant undergrowth.

0.20 Spur, projects S. 60° E.; desc. 75 ft. along a SW. slope.

5.90 Draw, drains SE. about 1 ch. to main draw, draining E.; asc. 125 ft. along a SE. slope.

13.70 Spur, projects S. 60° E.; desc. along a SW. slope.

25.50 Deep draw, drains S. 80° E.; asc. along a NE. slope.

40.11 At the $\frac{1}{4}$ sec. cor. of secs. 1 and 12.

Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. in diam., 22 ins. in the ground, to solid rock, and in a mound of stone, with brass cap marked

$\frac{1}{4}$ S1

S12

1953

from which

A juniper, 3 ins. in diam., marked BT., bears N. 41°45' E., 63 lks. dist.

A juniper, 4 ins. in diam., marked $\frac{1}{4}$ S12 BT., bears S. 32°15' W., 33 lks. dist.

61.00 Sandstone ledge, about 25 ft. high, bears NE. and S., continue over rolling mesa top.

80.22 The cor. of secs. 1, 2, 11, and 12.

Land, broken slopes.
Soil, gravelly to rocky clay loam.
Timber, dwarf juniper and pinon.
Undergrowth, blackbrush, sagebrush, bitter brush, weeds, and grass.

N. 0°12' E., bet. secs. 1 and 2.

Over rolling land, through scattering timber and scant undergrowth.

19.00 Wash, drains S. 60° E.

27.80 Low spur, projects E.

40.00 At the $\frac{1}{4}$ sec. cor. of secs. 1 and 2.

Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. in diam., 10 ins. in the ground, to solid rock, and in a mound of stone, with brass cap marked

SUBDIVISION OF T. 38 S. 2. 21 E. T. 10 N.

Section

41.00

$\frac{1}{4}$
 S2 | S1
 1953
 from which

A juniper, 4 ins. in diam., marked $\frac{1}{4}$ S1 BT., bears N. 82°00' E., 88 lks. dist.

47.00

A juniper, 3 ins. in diam., marked BT., bears N. 86°30' W., 82 lks. dist.

41.00

Wash, drains W. 80° E.

47.00

Draw, drains W. 60° E.

60.90

Deep draw, drains SE. about 10 chs.; thence E.

63.50

Unimproved road, bears NW. and SE.

80.60

The cor. of secs. 1, 2, 35, and 38 on the north boundary of the township, marked by an iron post, 2 ins. in diam., conforming to the record.

Land, broken slopes.
 Soil, gravelly to rocky clay loam.
 Timber, dwarf juniper and pinon.
 Undergrowth, sagebrush, blackbrush, bitter brush, weeds, and grass.

Beginning at the cor. of secs. 2, 3, 34, and 35 on the south boundary of the township, marked by an iron post, 2 ins. in diam., conforming to the record.

Thence

N. 0°08' E. bet. secs. 34 and 35.

Over broken land, through scattering timber and scant undergrowth, along a NE. slope.

15.30

Draw, drains S. 30° E., continue along a SW. slope.

33.70

Recross draw, drains S. 30° W.; asc. along a S. slope.

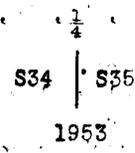
38.00

Low rim, bears NW. and E.; continue along rolling mesa top.

40.00

At the $\frac{1}{4}$ sec. cor. of secs. 34 and 35.

Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. in diam., 4 ins. in the ground, to solid rock, and in a mound of stone, with brass cap marked



A juniper, 6 ins. in diam., marked $\frac{1}{4}$ S35 BT., bears S. 87°30' E., 9 lks. dist.

A juniper 4 ins. in diam., marked $\frac{1}{4}$ S34 BT., bears N. 43°15' W., 73 lks. dist.

69.15

Unimproved road, bears N. 70°W. and S. 70° E.

80.00

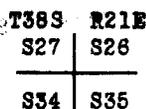
At the cor. of secs. 26, 27, 34, and 35.

Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. in diam., 18 ins. in the ground, to solid rock, and in a mound of stone, with brass cap marked

SUBDIVISION OF T2 S5 E1, R. 21E, T10N

Chains

marked



1953

from which

A juniper, 3 ins. in diam., marked S34-BT., bears S. 30°00' W., 253 lks. dist.

Deposit broken glass at the base of the post.

Land, broken in the S. and rolling in the N.

Soil, gravelly to rocky clay loam.

Timber, dwarf juniper and pinon.

Undergrowth, blackbrush, sagebrush, bitter brush, weeds and grass.

Beginning at the cor. of secs. 25, 26, 35, and 36.

Thence

S. 89°59' W., bet. secs. 26 and 35.

Over rolling land, through widely scattered timber, and a medium dense undergrowth.

20.80 Unimproved road, bears NW. and SE.

27.00 Wash, drains S. 70° W.

31.10 Wash, drains SW.

40.04 At the $\frac{1}{4}$ sec. cor. of secs. 26 and 35.

Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. in diam., 22 ins. in the ground, with brass plate marked

S26

S35

1953

Deposit broken glass at the base of the post.

41.30 Wash, drains S. 10° E.

71.20 Wash, drains SE

80.08 The cor. of secs. 26, 27, 34, and 35.

Land, rolling mesa top.

Soil, sandy to gravelly clay loam.

Timber, dwarf juniper.

Undergrowth, blackbrush, sagebrush, bitter brush, weeds, and grass.

N. 0°08' E., bet. secs. 26 and 27.

Over rolling land, through scattering timber and scant undergrowth.

6.50 Wash, drains SE.

33.20 Unimproved road, bears NE. and SW.

37.80 Unimproved road, bears E. and W.

SUBDIVISION OF T. 38 S., R. 21 E.

Chains

40.00

At the $\frac{1}{4}$ sec. cor. of secs. 26 and 27.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 25 ins. in the ground, with brass cap marked



Deposit broken glass at the base of the post.

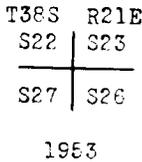
72.70

Unimproved road, bears E. and W.

80.00

At the cor. of secs. 22, 23, 26, and 27.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 25 ins. in the ground, with brass cap marked



from which

A juniper, 4 ins. in diam., marked S27 BT., bears S. $87^{\circ}45'$ W., 299 lks. dist.

Land, rolling mesa top.

Soil, sandy to gravelly clay loam.

Timber, dwarf juniper.

Undergrowth, blackbrush, sagebrush, bitter brush, weeds, and grass.

Beginning at the cor. of secs. 23, 24, 25, and 26.

Thence

S. $89^{\circ}59'$ W., bet. secs. 23 and 26.

Over rolling land, through widely scattered timber and medium dense undergrowth.

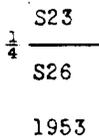
39.50

Wash, drains S. 30° E.

40.08

At the $\frac{1}{4}$ sec. cor. of secs. 23 and 26.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 24 ins. in the ground, with brass cap marked



from which

A juniper, 7 ins. in diam., marked $\frac{1}{4}$ S23 BT., bears N. $8^{\circ}00'$ E., 126 lks. dist.

47.70

Unimproved road, bears N. and S.

58.10

Wash, drains SE.

59.70

Unimproved road, bears N. 30° E. and S. 30° W.

SUBDIVISION OF T. 38 S., R. 10 E., S. 12 NE, NEQUEEN

Chains		Station
80.16	The cor. of secs. 22, 23, 25, and 27. Land, rolling mesa. Soil, sandy to gravelly clay loam. Timber, dwarf juniper. Undergrowth, sagebrush, blackbrush, bitter brush, weeds, and grass.	00.00
16.00	N. 0°08' E. bet. secs. 22 and 23. Over rolling land, through widely scattered timber and medium dense undergrowth. Wash, drains SE.	00.00
40.00	At the $\frac{1}{4}$ sec. cor. of secs. 22, and 23. Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 25 ins. in the ground, with brass cap marked $\begin{array}{c} \frac{1}{4} \\ \hline S22 \quad \quad S23 \\ \hline 1953 \end{array}$ Deposit broken glass at the base of the post.	00.00
55.30	Wash, drains S. 70° E.	00.00
80.00	At the cor. of secs. 14, 15, 22, and 23. Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 25 ins. in the ground, with brass cap marked $\begin{array}{c} T38S \quad R21E \\ S15 \quad \quad S14 \\ \hline S22 \quad \quad S23 \\ \hline 1953 \end{array}$ from which	00.00
	A juniper, 4 ins. in diam., marked S14 BT, bears N. 27°00' E., 208 lks. dist.	
	Land, rolling mesa top. Soil, sandy to gravelly clay loam. Timber, juniper. Undergrowth, sagebrush, blackbrush, bitter brush, weeds, and grass.	00.00
12.70	Beginning at the cor. of secs. 13, 14, 23, and 24. Thence West, bet. secs. 14 and 23. Over rolling land, through widely scattered timber and scant undergrowth.	00.00
40.06	Unimproved road, bears N. 10° W., S. 10° E. At the $\frac{1}{4}$ sec. cor. of secs. 14 and 23. Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 24 ins. in the ground, with brass cap marked $\begin{array}{c} S14 \\ \hline S23 \end{array}$	00.00

SUBDIVISION OF T₃S₃₈E., R. 21 E.

Chains

Deposit broken glass at the base of the post.

42.80 Unimproved road, bears S. 5° E. and N. 5° W.

58.00 Wash, drains SE.

70.50 Unimproved road, bears N. 15° W., and S. 15° E.

76.50 Wash, drains SE.

80.12 The cor. of secs. 14, 15, 22, and 23.

Land, rolling mesa top.

Soil, sandy to rocky clay loam.

Timber, dwarf juniper.

Undergrowth, sagebrush, blackbrush, bitter brush, weeds, and grass.

N. 0°08' E., bet. secs. 14 and 15.

Over rolling land, through widely scattered timber and medium dense undergrowth.

5.50 Wash, drains SE.

30.85 Unimproved road, bears N. 15° W. and S. 15° E.

37.50 Wash, drains S. 60° E.

40.00 At the $\frac{1}{4}$ sec. cor. of secs. 14 and 15.Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 25 ins. in the ground, with brass cap marked
$$\begin{array}{c} \frac{1}{4} \\ | \\ S15 \quad | \quad S14 \end{array}$$

1953

from which

A juniper, 3 ins. in diam., marked $\frac{1}{4}$ S14, BT., bears S. 43°30' E., 181 lks. dist.

53.60 Wash, drains E.

70.20 Wash, drains E.

80.00 At the cor. of secs. 10, 11, 14, and 15.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 25 ins. in the ground, with brass cap marked
$$\begin{array}{cc} T38S & R21E \\ S10 & | & S11 \\ \hline S15 & | & S14 \end{array}$$

1953

Deposit broken glass at the base of the post.

Land, rolling mesa top.

Soil, sandy to gravelly clay loam.

Timber, dwarf juniper.

Undergrowth, sagebrush, bitter brush, blackbrush, weeds, and grass.

Beginning at the cor. of secs. 11, 12, 13, and 14.

SUBDIVISION OF T. 38 S., R. 21 E.

Chains	
	Thence
	West, bet. secs. 11 and 14.
	Over rolling land, through scattering timber, and medium dense undergrowth.
28.00	Unimproved road, bears N. 10° W. and S. 10° E.
34.10	Wash, drains S. 30° E.
40.05	At the $\frac{1}{4}$ sec. cor. of secs. 11 and 14.
	Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 24 ins. in the ground, with brass cap marked
	$\frac{1}{4} \frac{S11}{S14}$
	1953
	from which
	A juniper, 8 ins. in diam., marked $\frac{1}{4}$ S11 PT., bears N. 22°00' E., 73.8 lks. dist.
	A juniper, 8 ins. in diam., marked $\frac{1}{4}$ S14 BT., bears S. 61°30' E., 206.5 lks. dist.
54.50	Unimproved road, bears N. and S.
56.50	Wash, drains S. 30° E.
74.10	Wash, drains SE.
80.10	The cor. of secs. 10, 11, 14, and 15.
	Land, rolling mesa top. Soil, sandy to gravelly clay loam. Timber, dwarf juniper. Undergrowth, sagebrush, blackbrush, bitter brush, weeds and grass.
	N. 0°08' E., bet. secs. 10 and 11.
	Over rolling land, through widely scattered timber and medium dense undergrowth.
4.50	Wash, drains SE.
37.80	Low spur, projects S. 60° E.
40.00	At the $\frac{1}{4}$ sec. cor. of secs. 10 and 11.
	Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 25 ins. in the ground, with brass cap marked
	$\frac{1}{4} \frac{S10}{S11}$
	1953
	from which
	A juniper, 4 ins. in diam., marked $\frac{1}{4}$ S10 BT., bears S. 64°00' W., 158 lks. dist.
49.50	Wash, drains E.
72.10	Unimproved road, bears N. 80° E. and S. 80° W.

SUBDIVISION OF T. 38 S., R. 21 E.

Chains

80.00

At the cor. of secs. 2, 3, 10, and 11.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 25 ins. in the ground, with brass cap marked

T38S	R21E
S3	S2
S10	S11

1953

from which

A juniper, 3 ins. in diam., marked S2 BT, bears N. $17^{\circ}15'$ E., 230 lks. dist.

A juniper, 10 ins. in diam., marked T38S R21E S11 BT., bears S. $72^{\circ}30'$ E., 161 lks. dist.

A juniper, 8 ins. in diam., marked T38S R21E S3 BT., bears N. $15^{\circ}00'$ W., 318 lks. dist.

Land, rolling mesa top.

Soil, sandy to gravelly clay loam.

Timber, dwarf juniper.

Undergrowth, sagebrush, blackbrush, bitter brush, weeds and grass.

Beginning at the cor. of secs. 1, 2, 11, and 12.

Thence

W., bet. secs. 2 and 11.

Over rolling land, through widely scattered timber and medium dense undergrowth; asc. along an E. slope.

29.30 Low spur, projects S. 10° E.

39.30 Unimproved road, bears N. 10° W. and S. 10° E.

40.03 At the $\frac{1}{4}$ sec. cor. of secs. 2 and 11.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 20 ins. in the ground to solid rock and in a mound of stone, with brass cap marked

$\frac{1}{4}$	S2
	S11

1953

from which

A juniper, 3 ins. in diam., marked $\frac{1}{4}$ S11 BT, bears S $29^{\circ}45'$ E., 63.5 lks. dist.

41.80 Unimproved road, bears N. and S.

57.20 Wash, drains SE.

65.90 Unimproved road, bears N. 60° E. and S. 60° W.

80.06 The cor. of secs. 2, 3, 10, and 11.

Land, rolling mesa top.

Soil, sandy to rocky clay loam.

Timber, dwarf juniper.

Undergrowth, sagebrush, blackbrush, bitter brush, weeds, and grass.

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SUBDIVISION OF T. 36 S., R. 21 E.

Chains	<p>N. 0°13' E., bet. secs. 2 and 3.</p> <p>Over rolling land, through scattering timber and medium dense undergrowth.</p>
39.80	Wash, drains SE.
40.00	<p>At the $\frac{1}{4}$ sec. cor. of secs. 2 and 3.</p> <p>Set an iron post, 30 ins. long, 2$\frac{1}{2}$ ins. in diam., 25 ins. in the ground, with brass cap marked</p>
	<p style="text-align: center;"> $\frac{1}{4}$ S3 S2 1953 </p>
	<p>from which</p> <p>A juniper, 3 ins. in diam., marked BT., bears S. 9°45' E., 58 lks. dist.</p> <p>A juniper, 6 ins. in diam., marked $\frac{1}{4}$ S3 BT., bears N. 78°15' W., 94 lks. dist.</p>
63.20	Unimproved road, bears E. and W.
80.61	<p>The cor. of secs. 2, 3, 34, and 35 on the north boundary of the township, marked by an iron post, 2 ins. in diam., conforming to the record.</p> <p>Land, rolling mesa top. Soil, sandy to gravelly clay loam. Timber, dwarf juniper and pinon. Undergrowth, sagebrush, blackbrush, bitter brush, weeds, and grass.</p>
<p>Beginning at the cor. of secs. 3, 4, 33, and 34 on the south boundary of the township, marked by an iron post, 2 ins. in diam., conforming to the record.</p>	
Thence	
N. 0°07' E., bet. secs. 33 and 34.	
Over brokep land, through scattering timber, and scant undergrowth, along a gentle NE. slope.	
27.60	Draw, drains SE.
37.10	Recross draw, drains S. 20° W.
39.80	Recross draw, drains S. 10° E.
40.00	<p>At the $\frac{1}{4}$ sec. cor. of secs. 33 and 34.</p> <p>Set an iron post, 30 ins. long, 2$\frac{1}{2}$ ins. in diam., 25 ins. in the ground, with brass cap marked</p>
	<p style="text-align: center;"> $\frac{1}{4}$ S33 S34 1953 </p>
	<p>from which</p> <p>A juniper, 6 ins. in diam., marked $\frac{1}{4}$ S34 BT., bears W. 26°45' E., 140 lks. dist.</p> <p>A juniper, 4 ins. in diam., marked $\frac{1}{4}$ S33 BT., bears S. 13°15' W., 151 lks. dist.</p>
Asc. 125 ft. along a SW. slope.	

SUBDIVISION OF T. 38 S., R. 21 E.

Chains

- 53.45 Sandstone rim about 10 ft. high, bears NW. and SE.; continue over rolling land.
- 61.75 Draw, drains E.
- 67.80 Spur, projects S. 70° E.
- 72.30 Draw, drains S. 60° E.
- 80.00 At the cor. of secs. 27, 28, 33, and 34.

Set an iron post, 30 ins. long, 2 1/2 ins. in diam., 20 ins. in the ground to solid rock; and in a mound of stone, with brass cap marked

T38S R21E

S27

S33 S34

1953

from which

A juniper, 3 ins. in diam., marked S27 BT., bears N. 75°00' E., 84 lks. dist.

A juniper, 7 ins. in diam., marked T38S R21E S34 BT., bears S. 56° 45' E., 64 lks. dist.

A juniper 4 ins. in diam., marked S33 BT, bears S. 42°30' W., 81 lks. dist.

A juniper 6 ins. in diam., marked T38S R21E S28 BT., bears N. 62° 00' W., 85 lks. dist.

Land, broken in the south and rolling in the north.

Soil, gravelly to rocky clay loam.

Timber, dwarf juniper and pinon.

Undergrowth, blackbrush, sagebrush, bitter brush, weeds, and grass.

Beginning at the cor. of secs. 26, 27, 34, and 35,

Thence

S. 89°59' W., bet. secs. 27 and 34.

Over rolling land, through scattering timber and scant undergrowth.

19.40 Unimproved road, bears NE. and SW.

32.55 Unimproved road, bears NW. and SE.

40.04 At the 1/4 sec. cor. of secs. 27 and 34.

Set an iron post, 30 ins. long, 2 1/2 ins. in diam., 18 ins. in the ground, to solid rock, and in a mound of stone, with brass cap marked

S27

1/4

S34

1953

from which

A juniper, 4 ins. in diam., marked 1/4 S27 BT., bears N. 2°30' E., 49 lks. dist.

A juniper, 4 ins. in diam., marked 1/4 S34 BT., bears S. 78°30' E., 92 lks. dist.

SUBDIVISION OF T. 38 S., R. 21 E.

Chains	
51.20	Wash, drains S. 80°E.
55.60	Wash, drains NE.
80.08	The cor. of secs. 27, 28, 33, and 34.
	Sand, rolling mesa top. Soil, gravelly clay loam. Timber, dwarf juniper. Undergrowth, sagebrush, blackbrush, bitter brush, weeds, and grass.
	S. 89°59' W. bet. secs. 28 and 33.
	Over rolling land, through scattering timber and scant undergrowth. Asc. 45 ft. along a SE slope.
2.90	Spur, projects NE., continue ascent along a NE. slope.
15.30	Spur, projects NW. and top rim of mesa.; desc. 165 ft. along a NW. slope.
20.00	Small draw, drains N.; continue along a N. slope.
24.00	Small draw, drains NE.; asc. along a broken NE. slope.
35.50	Spur, projects NW. and lower rim of mesa; desc. along a SW. slope.
39.92	At the $\frac{1}{4}$ sec. cor. of secs. 28 and 33.
	Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 20 ins. in the ground, to solid rock, and in a mound of stone, with brass cap marked
	$\begin{array}{r} S28 \\ \hline \frac{1}{4} \\ S33 \\ 1953 \end{array}$
	Deposit a sandstone rock, 4x4x4 ins., marked with a cross (X), at the base of the post.
	Desc. 65 ft. along a W. slope.
46.00	Draw, drains NW.; asc. 95 ft. along an E. slope to spur.
58.30	Draw, drains N.; continue ascent.
63.70	Spur, projects N. 80° W.; desc. along a W. slope.
79.84	The cor. of secs. 28, 29, 32; and 33, marked by an iron post, 2 ins. in diam., conforming to the record.
	Land, rolling and broken slopes. Soil, gravelly clay loam. Timber, dwarf juniper and pinon. Undergrowth, blackbrush, bitter brush, weeds, and grass.
	Beginning at the cor. of secs. 27, 28, 33, and 34.
	Thence
	N. 0°07' E., bet. secs. 27 and 28.
	Over rolling land, through scattering timber and medium dense undergrowth; asc. 20 ft. along a SE. slope.
3.90	Spur, projects N. 20° E.
15.30	Wash, drains N. 60° E.

SUBDIVISION OF T. 38 S., R. 21 E.

Chains

- 33.60 Wash, drains N. 70° E.
 37.65 Spur, projects S. 80° E.; continue along gentle NE. slope.
 40.00 At the $\frac{1}{4}$ sec. cor. of secs. 27 and 28.
 .. Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 25 ins. in the ground, with brass cap marked

$\frac{1}{4}$
 S28 | S27

1953

from which

A juniper, 6 ins. in diam., marked $\frac{1}{4}$ S27 BT, bears S. 55°30' E., 32 lks. dist.

A juniper, 4 ins. in diam., marked $\frac{1}{4}$ S28 BT, bears N. 82°15' W., 55 lks. dist.

- 41.00 Low spur, projects N. 30° E.; desc. along a rolling NW. slope.
 45.30 Unimproved road, bears NW. and SE.
 71.30 Draw, drains NE. curving to N.
 75.30 Low spur, projects E. about 3 chs. to end.
 80.00 At the cor. of secs. 21, 22, 27, and 28.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 26 ins. in the ground, with brass cap marked

T38S R21E
 S21 | S22

 S28 | S27

1953

from which

A juniper, 3 ins. in diam., marked S28 BT., bears S. 3°15' W., 87 lks. dist.

A juniper, 3 ins. in diam., marked S21 BT., bears N. 45°15' W., 138 lks. dist.

Land, rolling mesa top.

Soil, sandy to gravelly clay loam.

Timber, dwarf juniper.

Undergrowth, sagebrush, blackbrush, bitter brush, weeds, and grass.

Beginning at the cor. of secs. 22, 23, 26, and 27.

Thence

S. 89°59' W., bet. secs. 22 and 27.

Over rolling land, through widely scattered timber and medium dense undergrowth.

- 27.50 Unimproved road, bears N. and S.

- 40.03 At the $\frac{1}{4}$ sec. cor. of secs. 22 and 27.

Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 10 ins. in the ground, to solid rock, and in a mound of stone, with brass cap marked

Chains		arland
	$\frac{1}{4}$ S22	09.88
	S27	08.70
	1953	00.00
	from which	
	A juniper, 3 ins. in diam., marked BT., bears N. 1°00' E., 94 lks. dist.	
	A juniper, 6 ins. in diam., marked $\frac{1}{4}$ S27 BT., bears S. 47°30' E., 218 lks. dist.	
75.30	Draw, drains N.	
80.06	The cor. of secs. 21, 22, 27, and 28.	
	Land, rolling mesa top. Soil, sandy clay loam. Timber, dwarf juniper. Undergrowth, sagebrush, blackbrush, bitter brush, weeds, and grass.	
	West, bet. secs. 21 and 28.	
	Over rolling land, through widely scattered timber and medium dense undergrowth; desc. along a rolling NW. slope.	
2.20	Small draw, drains N.; asc. along a NE. slope.	
9.60	Low spur, projects N.; desc. along a NW. slope.	
19.20	Shallow draw, drains NE.; continue along a N. slope.	
32.70	Shallow draw, drains N.; asc. along a NE. slope.	
39.91	At the $\frac{1}{4}$ sec. cor. of secs. 21 and 28.	
	Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. in diam., 26 ins. in the ground, with brass cap marked	
	$\frac{1}{4}$ S21	
	S28	
	1953	
	from which	
	A juniper, 3 ins. in diam., marked BT., bears N. 28°45' E., 102 lks. dist.	
	A juniper, 6 ins. in diam., marked $\frac{1}{4}$ S28 BT., bears S. 24°45' W., 79.5 lks. dist.	
	Asc. along a NE. slope.	
48.10	Spur, projects NE. about 5 chs. thence NW.	
53.40	Shallow draw, drains N.	
56.10	Low spur, projects N.; continue along a N. slope.	
65.40	Low spur, projects SW.; desc. along a NW. slope.	
75.00	Low rim, bears NW. and SE.	
79.82	The cor. of secs. 20, 21, 28, and 29, marked by an iron post, 2 ins. in diam., conforming to the record.	
	Land, rolling mesa top. Soil, sandy clay loam. Timber, dwarf juniper. Undergrowth, sagebrush, blackbrush, bitter brush, weeds, and grass.	

SUBDIVISION OF T. 36, S., R. 21 E.

Chains

Beginning at the cor. of secs. 21, 22, 27, and 28.

Thence

N. 0°07' E., bet. secs. 21 and 22.

Over rolling land, through scattering timber and medium dense undergrowth; desc. along a NW. slope.

6.60 Draw, drains NE.; asc. along a SE. slope.

11.00 Spur, projects E. about 6 chs. to end; desc. along a NE. slope.

17.10 Draw, drains NE.; continue descent over a general N. slope.

36.60 Draw, drains N. 10° E.; asc. along a SE. slope.

40.00 At the $\frac{1}{2}$ sec. cor. of secs. 21 and 22.

Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. in diam., 4 ins. in the ground, to solid rock, and in a mound of stone, with brass cap marked

S21	S22
-----	-----

1953

from which

A juniper, 3 ins. in diam., marked BT., bears S. 29°30' E., 68 lks. dist.

A juniper 3 ins. in diam., marked $\frac{1}{2}$ S21 BT., bears S. 37°30' W., 43 lks. dist.

50.00 Draw, drains N. 80° W.; asc. 165 ft. along a SW. slope.

56.70 Spur, projects W. about 6 chs. to end; desc. along a NW. slope.

74.30 Draw, drains SW.; continue along an E. slope.

80.00 At the cor. of secs. 15, 16, 21, and 22.

Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. in diam., 8 ins. in the ground, to solid rock, and in a mound of stone, with brass cap marked

T38S	R21E
------	------

S16	S15
-----	-----

S21	S22
-----	-----

1953

from which

A juniper, 4 ins. in diam., marked T38S R21E S22 BT., bears S. 30° 45' E., 81 lks. dist.

A juniper, 2 ins. in diam., marked BT., bears S. 37°00' W., 98 lks. dist.

A juniper, 3 ins. in diam., marked BT., bears N. 42°00' W.; 27 lks. dist.

Land, broken slopes.

Soil, gravelly to rocky clay loam.

Timber, dwarf juniper and pinon.

Undergrowth, blackbrush, bitter brush, sagebrush, weeds, and grass.

Beginning at the cor. of secs. 14, 15, 22, and 23.

486

SUBDIVISION OF T. 38 S., R. 21 E.

Chains		and
	Thence	
	S. 89°58' W., bet. secs. 15 and 22.	
	Over rolling land, through scattering timber and medium dense undergrowth.	
21.60	Wash, drains S. 30° E.	
24.50	Unimproved road, bears N. and S.	
40.01	At the $\frac{1}{4}$ sec. cor. of secs. 15 and 22.	
	Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 22 ins. in the ground, and in a collar of stone, with brass cap marked	
	S15	
	$\frac{1}{4}$	
	S22	
	1953	
	from which	
	A juniper, 3 ins. in diam., marked BT., bears N. 18°15' E., 103 lks. dist.	
	A juniper, 3 ins. in diam., marked BT., bears S. 66°45' W., 82.5 lks. dist.	
42.00	Edge of mesa bears NE. and SW.; desc. 235 ft. along a broken W. slope	
65.20	Draw, drains N.; asc. 95 ft. along a NE. slope.	
68.20	Spur, projects N. about 8 chs. to end; desc. 125 ft. along a W. slope	
75.60	Draw, drains SW; asc. 65 ft. along a NE. slope.	
80.02	The cor. of secs. 15, 16, 21, and 22.	
	Land, rolling in the east, broken slopes in the west.	
	Soil, sandy to rocky clay loam.	
	Timber, dwarf juniper and pinon.	
	Undergrowth, sagebrush, blackbrush, bitter brush, weeds, and grass.	
	N. 89°59' W., bet. secs. 16 and 21.	
	Over broken land, through scattering timber and medium dense undergrowth. Asc. 135 ft. along a NE. slope.	
8.80	Spur, projects S. 20° E., about 15 chs. to end; desc. 95 ft. along a SW. slope.	
16.70	Draw, drains S. 20° E., about 5 chs.; thence SE.; asc. 65 ft. along a SE. slope.	
27.70	Spur, projects S. 30° E.; desc. 145 ft. along a SW. slope over ledges	
28.20	Sandstone ledge, about 15 ft. high, bears NW. and SE.	
37.00	Draw, drains S. 20° E.; asc. 75 ft. along a NE. slope.	
39.90	At the $\frac{1}{4}$ sec. cor. of secs. 16 and 21.	
	Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 18 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked	

... SUBDIVISION OF T. 38 S., R. 31 E.

Chains
S16
S21
1953
45.10
58.00
78.40
79.80

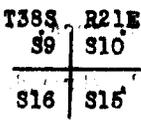
Deposit broken glass at the base of the post; asc. 65 ft. along a NE slope.
Spur, projects SE. about 10 chs. to end; desc. over broken ground.
Draw, drains S.; asc. along a SE. slope.
Spur, projects S.; desc. along a NW. slope.
The cor. of secs. 15, 17, 20, and 21, marked by an iron post, 2 ins. in diam., conforming to the record.
Land, rough and broken slopes.
Soil, rocky clay loam.
Timber, dwarf junipers and pinon.
Undergrowth, blackbrush, bitter brush, weeds, and grass.

Beginning at the cor. of secs. 15, 16, 21, and 22.
Thence
N. 0°07' E. bet. secs. 15 and 16.
Over broken land, through scattering timber and scant undergrowth; desc. along a NE slope.
Draw, drains S. 80° E.; asc. along rolling SE. slope.
Draw, drains S. 60° E.
At the 1/2 sec. cor. of secs. 15 and 16.
Set an iron post, 30 ins. long, 2 1/2 ins. in diam., 22 ins. in the ground, to solid rock, and in a mound of stone, with brass cap marked



from which
A juniper, 6 ins. in diam., marked 1/4 S16 BT., bears N. 44°45' E., 287 lks. dist.
A juniper, 4 ins. in diam., marked 1/4 S16 BT., bears N. 36°30' W., 328 lks. dist.

46.00 Draw, drains E.; continue along an E. slope.
57.00 Draw, drains SE.; asc. along a SE. slope.
80.00 At the cor. of secs. 9, 10, 15, and 16.
Set an iron post, 30 ins. long, 2 1/2 ins. in diam., in a large mound of stone, with brass cap marked



from which
A juniper, 3 ins. in diam., marked BT., bears N. 39°30' E., 141 lks. dist.

SUBDIVISION OF T. 38 S., R. 21 E.

Chains	<p>A juniper, 8 ins. in diam., marked T38S R21E S15 BT., bears S. 19° 45' E., 112 lks. dist.</p> <p>A juniper, 4 ins. in diam., marked S16 BT., bears S. 46°30' W., 97 lks. dist.</p> <p>A juniper, 10 ins. in diam., marked S9 BT., bears N. 61°30' W., 89 lks. dist.</p> <p>Land, broken bottom land. Soil, sandy to gravelly clay loam. Timber, dwarf juniper and pinon. Undergrowth, blackbrush, bitter brush, weeds, and grass.</p>	marked
	<p>Beginning at the cor. of secs. 10, 11, 14, and 15.</p> <p>Thence</p> <p>S. 89°58' W., bet. secs. 10 and 15.</p>	
	<p>Over rolling land, through scattering timber and medium dense undergrowth.</p>	
18.70	<p>Unimproved road, bears N. and S.</p>	
39.99	<p>At the $\frac{1}{4}$ sec. cor. of secs. 10 and 15:</p>	
	<p>Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 20 ins. in the ground, and in a mound of stone, with brass cap marked</p>	
	<p style="text-align: center;">$\frac{1}{4}$ $\frac{S10}{S15}$</p> <p style="text-align: center;">1953'</p>	
	<p>from which</p>	
	<p>A juniper, 4 ins. in diam., marked $\frac{1}{4}$ S15 BT., bears S. 42°00' W., 44 lks. dist.</p>	
	<p>A juniper, 4 ins. in diam., marked $\frac{1}{4}$ S10 BT., bears N. 17°00' W., 75 lks. dist.</p>	
43.40	<p>Rim of mesa bears NE. and SW.; desc. 205 ft. along a broken W. slope</p>	
56.90	<p>Small draw, drains N.; asc. 35 ft. along a NE. slope.</p>	
62.00	<p>Spur, projects NW. about 4 chs. to end; desc. along a SW. slope.</p>	
76.00	<p>Draw, drains S. 10° E.; asc. 45 ft. along a SE. slope.</p>	
79.98	<p>The cor. of secs. 9, 10, 15, and 16.</p>	
	<p>Land, rolling mesa in the east and broken slopes in the west. Soil, sandy to rocky clay loam. Timber, dwarf juniper, and pinon. Undergrowth, sagebrush, blackbrush, bitter brush, weeds, and grass.</p>	
	<p>N. 89°58' W., bet. secs. 9 and 16.</p>	
	<p>Over rolling land, through scattering timber and medium dense undergrowth.</p>	
39.90	<p>At the $\frac{1}{4}$ sec. cor. of secs. 9 and 16.</p>	
	<p>Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 15 ins. in the ground, to solid rock, and in a mound of stone, with brass cap marked</p>	

SUBDIVISION OF T. 38 S., R. 21 E.

Chains

$\frac{1}{4}$ S9
S16
1953

from which

A juniper, 8 ins. in diam., marked $\frac{1}{4}$ S9 BT., bears N. 55°30' E., 29 lks. dist.

A pinon, 4 ins. in diam., marked $\frac{1}{4}$ S16 BT., bears S. 37°30' E., 32 lks. dist.

- 48.70 Spur, projects N.; desc. along a NW. slope.
- 52.80 Sandstone rim, bears N. 10° E. and S. 10° W.
- 55.60 Draw, drains SW.; asc. along a SE. slope.
- 59.00 Spur, projects SW.
- 59.90 Sandstone rim about 15 ft. high and rim of mesa, bears N. and S.; desc. 175 ft. along a broken SW. slope.
- 63.65 Draw, drains SW.; asc. 85 ft. along a SE. slope.
- 69.10 Spur, projects SW.; desc. 145 ft. along a NW. slope.
- 75.00 Draw, drains SW.; asc. 80 ft. along a SE. slope.
- 79.80 The cor. of secs. 8, 9, 16, and 17, marked by an iron post, 2 ins. in diam., conforming to the record.

Land, rolling mesa in the east and broken slopes in the west.
Soil, sandy to rocky clay loam.
Timber, dwarf juniper and pinon.
Undergrowth, sagebrush, blackbrush, bitter brush, weeds, and grass.

Beginning at the cor. of secs. 9, 10, 16, and 17.

Thence

N. 00°07' E., bet. secs. 9 and 10.

Over broken land, through scattering timber and scant undergrowth.

- 7.80 Wash, drains S. 60° E.
- 14.60 Wash, drains S. 60° E.; asc. 105 ft. along a SW. slope.
- 37.20 Spur, projects SE.; desc. along a NE. slope.
- 40.00 At the $\frac{1}{4}$ sec. cor. of secs. 9 and 10.

Set an iron post, 30 ins. long, 2 1/2 ins. in diam., 24 ins. in the ground, with brass cap marked

$\frac{1}{4}$
S9 | S10
1953

from which

A juniper, 8 ins. in diam., marked $\frac{1}{4}$ S10 BT., bears S. 51°15' E., 326 lks. dist.

A juniper, 4 ins. in diam., marked $\frac{1}{4}$ S9 BT., bears N. 76°00' W., 235 lks. dist.

SUBDIVISION OF T. 38 S., R. 21 E.

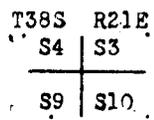
Chains

52.00 Draw, drains SE.; asc. along a SW. slope.

68.30 Spur, projects SE.

80.00 At the cor. of secs. 3, 4, 9, and 10.

Set an iron post, 30 ins. long, 2 1/2 ins. in diam., 22 ins. in the ground, with brass cap marked



1953

Raise a mound of stone west of the post.

From this cor., the U.S.G.S. station "Black Mesa Butte", Lat. 37° 31' 00.04" N., Long. 109° 36' 23.14" W., bears N. 15° 51' W., 63.73 chs. dist.

Land, broken bottom lands.
Soil, gravelly clay loam.
Timber, dwarf juniper and pinon.
Undergrowth, blackbrush, weeds, and grass.

Beginning at the cor. of secs. 2, 3, 10, and 11.

Thence

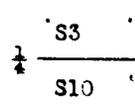
S. 89°57' W., bet. secs. 3 and 10.

Over rolling land, through scattering timber and medium dense undergrowth.

34.40 Edge of mesa, bears N. and S.; desc. 175 ft. along a broken SW. slope

39.97 At the 1/4 sec. cor. of secs. 3 and 10.

Set an iron post, 30 ins. long, 2 1/2 ins. in diam., 22 ins. in the ground, with brass cap marked



1953

from which

A juniper, 4 ins. in diam., marked 1/4 S10 BT., bears S. 36°15' W., 64 lks. dist.

A juniper, 4 ins. in diam., marked 1/4 S3 BT., bears N. 34°00' W., 97 lks. dist.

Desc. 35 ft. along a SW. slope.

44.70 Draw, drains S. about 5 chs.; thence SW.; continue over broken land.

69.20 Draw, drains S. 30° W.

78.20 Draw, drains S. 20° E.

79.94 The cor. of secs. 3, 4, 9, and 10.

Land, rolling in the east and broken in the west.
Soil, gravelly clay loam.
Timber, dwarf juniper and pinon.
Undergrowth, sagebrush, blackbrush, bitter brush, weeds, and grass.

SUBDIVISION OF T. 38 S., R. 21 E.

Chains	
	S. 89°59' W., bet. secs. 4 and 9. Over rolling land, through scattering timber and scant undergrowth; asc. 35 ft. along an E. slope.
1.60	Spur, projects S.; desc. along a SW. slope.
6.40	Shallow draw, drains S.; continue along a broken S. slope.
15.40	Wash, drains S. 20° E.; asc. along a broken SE. slope.
39.30	Spur, projects SE.; desc. along a W. slope.
39.95	At the $\frac{1}{4}$ sec. cor. of secs. 4 and 9. Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. in diam., 16 ins. in the ground, to solid rock, and in a mound of stone, with brass cap marked
	$\frac{1}{4}$ S4 <hr style="width: 20%; margin: auto;"/> S9 1953
	Deposit broken glass at the base of the post.
45.00	Draw, drains S.
61.00	Spur, projects S.; desc. 255 ft. along a broken W. slope.
79.90	The cor. of secs. 4, 5, 8, and 9, marked by an iron post, 2 ins. in diam., conforming to the record. Land, rolling and broken slopes. Soil, gravelly to rocky clay loam. Timber, dwarf juniper, and pinon. Undergrowth, blackbrush, bitter brush, weeds, and grass.
	Beginning at the cor. of secs. 3, 4, 9, and 10. Thence N. 0°16' E., bet. secs. 3 and 4. Over broken land, through scattering timber and scant undergrowth; asc. along a SE. slope.
19.30	Spur, projects S. 30° W.; desc. along a NW. slope.
27.30	Draw, drains S. 70° W.; asc. along a S. slope.
40.00	At the $\frac{1}{4}$ sec. cor. of secs. 3 and 4. Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. in diam., 22 ins. in the ground, with brass cap marked
	$\frac{1}{4}$ S4 S3 1953
	from which A juniper, 3 ins. in diam., marked BT., bears N. 74°00' E., 41 lks. dist. A juniper, 4 ins. in diam., marked $\frac{1}{4}$ S4 BT., bears S. 76°45' W., 63 lks. dist.
40.40	Sandstone rim and edge of mesa; bears NW. and SE.; continue over rolling land

SUBDIVISION OF T. 38 S., R. 21 E.

Chains	
80.67	<p>The cor. of secs. 3, 4, 33, and 34 on the north boundary of the township, marked by an iron post, 2 ins. in diam., conforming to the record.</p>
	<p>Land, broken in the south and rolling in the north. Soil, gravelly to rocky clay loam. Timber, dwarf juniper and pinon. Undergrowth, sagebrush, blackbrush, bitter brush, weeds, and grass.</p>
	<p>Beginning at the cor. of secs. 4, 5, 8, and 9, heretofore described.</p>
	<p>Thence</p>
	<p>N. 0°12 E., bet. secs. 4 and 5.</p>
	<p>Over broken land, through scattering timber and scant undergrowth; desc. along a broken W. slope over small draws and spurs putting W.</p>
29.40	<p>Spur, projects W.; desc. 175 ft. along a NE. slope.</p>
40.00	<p>At the $\frac{1}{4}$ sec. cor. of secs. 4 and 5.</p>
	<p>Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 16 ins. in the ground, to solid rock, and in a mound of stone, with brass cap marked</p>
	<div style="text-align: center;"> $\frac{1}{4}$ S5 S4 1953 </div>
	<p>from which</p>
	<p>A pinon, 4 ins. in diam., marked $\frac{1}{4}$ S4 BT., bears S. 56°30' E., 40 lkd. dist.</p>
	<p>A pinon, 5 ins. in diam., marked $\frac{1}{4}$ S5 BT., bears S. 78°45' W., 33 lks. dist.</p>
	<p>Desc. 295 ft. along a broken NE. slope.</p>
73.05	<p>Unimproved road, bears NE. and SW.</p>
75.50	<p>Draw, drains W.; asc. 75 ft. along a SW. slope.</p>
80.64	<p>The cor. of secs. 4, 5, 32, and 33, on the north boundary of the township, marked by an iron post, 2 ins. in diam., conforming to the record.</p>
	<p>Land, rough and broken slopes. Soil, rocky clay loam. Timber, dwarf juniper, and pinon. Undergrowth, blackbrush, bitter brush, weeds, and grass.</p>
	<p>Beginning at the cor. of secs. 29, 30, 31, and 32, marked by an iron post, 2 ins. in diam., conforming to the record.</p>
	<p>Thence</p>
	<p>N. 89°59' W. bet. secs. 30 and 31.</p>
	<p>Over rough and broken land, through scattering timber and scant undergrowth; asc. 375 ft. along a SE. slope.</p>
24.00	<p>Spur, projects N. 60° E.; desc. abruptly along a NW. slope.</p>
26.50	<p>Rocky draw, drains N. 25° E.; asc. 265 ft. along an E. slope.</p>
32.64	<p>Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 16 ins. in the ground, to solid rock, and in a mound of stone, with brass cap marked</p>

SUBDIVISION OF T. 38 S., R. 21 E.

Chains

ground at the witness $\frac{1}{4}$ sec. cor. of secs. 30 and 31, with brass cap marked

WC

 $\frac{1}{4}$ S30

S31

1953

from which

A juniper, 3 ins. in diam., marked XWC BT., bears N. 10°45' E., 89 lks. dist.

A juniper, 4 ins. in diam., marked XWC BT., bears S. 49°30' E., 71 lks. dist.

32.90 Comb Reef, bears N. and S.; desc. 605 ft. along a broken W. slope over ledges.

40.00 Point for the $\frac{1}{4}$ sec. cor. falls on steeply sloping sandstone ledge.

54.50 Unimproved road, bears N. and S.

60.30 Comb Wash, 30 lks. wide, and 4 ft. deep, drains S. 20° W.

79.26 The cor. of secs. 25, 30, 31, and 36 on the west boundary of the township, marked by an iron post, 2 ins. in diam., conforming to the record.

Land, rough and broken slopes.

Soil, rocky clay loam.

Timber, dwarf juniper, and pinon.

Undergrowth, bitter brush, blackbrush, weeds, and grass.

Beginning at the cor. of secs. 19, 20, 29, and 30, marked by an iron post, 2 ins. in diam., conforming to the record.

Thence

N. 89°59' W., bet. secs. 19 and 30.

Over broken sandstone slopes, through scattering timber and scant undergrowth.

1.00 Draw, drains S. 10° E.; asc. 75 ft. along a SE. slope.

8.50 Spur, projects S. about 15 chs. to end; desc. 160 ft. along a SW. slope.

12.60 Deep draw, drains S. 20° E.; asc. 65 ft. along a SE. slope.

16.60 Low spur, projects S. 10° E. about 10 chs. to end.

18.45 Draw, drains S. 10° E.

26.00 High spur, projects S. 10° E.

34.00 Deep draw, drains S. 20° E.

40.00 At the $\frac{1}{4}$ sec. cor. of secs. 19 and 30.

Cut a cross (X) in solid sandstone bedrock, from which

A juniper, 6 ins. in diam., marked $\frac{1}{4}$ S19 BT., bears N. 51°00' E., 59.0 lks. dist.

A juniper, 6 ins. in diam., marked $\frac{1}{4}$ S30 BT., bears S. 22°00' E., 55.5 lks. dist.

SUBDIVISION OF T. 38 S., R. 21 E.

Chains	
42.96	On top of Comb Reef, bearing N. and S.
	Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 4 ins. in the ground, to solid rock, and in a mound of stone, with brass cap marked
	WC
	S19
	$\frac{1}{4}$
	S30
	1953
	Desc. 705 ft. along a broken W. slope over ledges.
72.10	Unimproved road, bears N. 20° E. and S. 20° W.
78.00	Comb Wash, drains S. 30° W.
79.08	The cor. of secs. 19, 24, 25, and 30, on the west boundary of the township, marked by an iron post, 2 ins. in diam., conforming to the record.
	Land, rough and broken slopes. Soil, gravelly to rocky clay loam. Timber, dwarf juniper and piñon. Undergrowth, blackbrush, sagebrush, bitter brush, weeds, and grass.
	Beginning at the cor. of secs. 17, 18, 19, and 20, marked by an iron post, 2 ins. in diam., conforming to the record.
	Thence
	West, bet. secs. 18 and 19.
	Over rough and broken sandstone slopes, through scattering timber and scant undergrowth; desc. 60 ft. along a SW. slope.
2.30	Draw, drains S.; asc. 160 ft. along a broken SE. slope.
14.65	Spur, projects S. 20° E., about 10 chs. to end; desc. 105 ft. over ledge
16.00	Draw, drains S. 20° E.; asc. 140 ft. over ledges.
19.30	High spur, projects S. 20° E., about 10 chs.; desc. 60 ft. over ledge
23.00	Draw, drains SE.; asc. 170 ft. over a broken E. slope.
37.10	Spur projects SE. about 8 chs. to end; continue over broken E. slope.
39.22	On a small ledge, bearing N. and S.
	Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 10 ins. in the ground, to solid rock and in a mound of stone, at the witness cor. of secs. 18 and 19, with brass cap marked
	WC
	S18
	$\frac{1}{4}$
	S19
	1953
40.00	At the $\frac{1}{4}$ sec. cor. of secs. 18 and 19.
	Cut a cross (X) in solid sandstone surface rock, from which
	A juniper, 3 ins. in diam., marked $\frac{1}{4}$ S19 BT., bears S. 41° 30' E., 24 lks. dist.

SUBDIVISION OF T. 38 S., R. 21 E.

Chains	<p>A juniper, 3 ins. in diam., marked $\frac{1}{4}$ S18 BT., bears N. 76°45' W., 25 lks. dist.</p> <p>Continue ascent over a broken E. slope.</p>
48.20	Comb Reef, bears N. and S.
70.50	Comb Wash, drains S. 20° E., curving to SW.
78.90	<p>The cor. of secs. 13, 18, 19, and 24, on the west boundary of the township, marked by an iron post, 2 ins. in diam., conforming to the record.</p> <p>Land, rough and broken slopes. Soil, sandy to rocky clay loam. Timber, dwarf juniper and pinon. Undergrowth, blackbrush, sagebrush, bitter brush, weeds, and grass.</p>
	<p>Beginning at the cor. of secs. 7, 8, 17, and 18, marked by an iron post, 2 ins. in diam., conforming to the record.</p> <p>Thence</p> <p>West, bet. secs. 7 and 18.</p> <p>Over broken sandstone slopes, through scattering timber and scant undergrowth; asc. 160 ft. along a NE. slope.</p>
16.40	Spur, projects SE.; desc. 65 ft. along a SW. slope.
23.60	Draw, S. 20° E.; asc. 105 ft. along a broken SE. slope.
36.07	On top of Comb Reef, bearing N. and S.
	<p>Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. in diam., 10 ins. in the ground, to solid rock, and in a mound of stone, at the witness $\frac{1}{4}$ sec. cor. of secs. 7 and 18, with brass cap marked</p> <p style="text-align: center;">WC S7. $\frac{1}{4}$ ——— S18</p> <p style="text-align: center;">1953</p> <p>from which</p> <p>A juniper, 3 ins. in diam., marked XWC BT., bears N. 8°00' E., 15 lks. dist.</p> <p>A juniper, 3 ins. in diam., marked XWC BT., bears S. 4°30' W., 28 lks. dist.</p>
	Desc. 685 ft. along a broken W. slope over ledges.
40.00	The point for the $\frac{1}{4}$ sec. cor. falls upon steeply sloping sandstone ledge.
68.50	Comb Wash, drains southwesterly on a curve.
78.71	<p>The cor. of secs. 7, 12, 13, and 18, on the west boundary of the township at a point 2.80 chs. S. 0°12' W. of its witness cor., marked by an iron post, 2 ins. in diam., conforming to the record.</p> <p>Land, rough and broken sandstone slopes in the east and broken slopes in the west. Soil, sandy to rocky clay loam. Timber, dwarf juniper and pinon. Undergrowth, blackbrush, sagebrush, bitter brush, weeds, and grass.</p>

SUBDIVISION OF T. 38 S., R. 21 E.

Chains

Beginning at the cor. of secs. 5, 6, 7, and 8, marked by an iron post, 2 ins. in diam., conforming to the record.

Thence

West, bet. secs. 6 and 7.

Over rough and broken sandstone slopes, through scattering timber and scant undergrowth; asc. 245 ft. along a broken SE. slope.

18.75 Rocky spur, projects S.; desc. 75 ft. along a SW. slope over ledges.

24.70 Draw, drains S. 10° E., about 1 chain, thence S. 60° E.; asc. 160 ft along a broken E. slope.

30.00 On top of Comb Reef bearing N. and S.

Set an iron post, 30 ins. long, 2 1/2 ins. in diam., 8 ins. in the ground to solid rock, and in a mound of stone, with brass cap marked

WG

S6

1/4

S7

1953

from which.

A juniper, 3 ins. in diam., marked XWC BT., bears S. 34°00' E., 17.5 lks. dist.

A juniper, 3 ins. in diam., marked XWC BT., bears N. 64°30' W., 24.0 lks. dist.

Desc. 675 ft. over a broken W. slope over ledges.

40.00 Point for the 1/4 sec. cor. of secs. 6 and 7 falls upon a precipitous sandstone slope.

78.52 The cor. of secs. 1, 6, 7, and 12, at a point 2.00 chs. S. 0°12' W. of its witness cor., marked by an iron post, 2 ins. in diam., conforming to the record.

Land, rough and broken sandstone slopes in the east and rolling land in the west.

Soil, sandy to rocky clay loam.

Timber, dwarf juniper and pinon.

Undergrowth, blackbrush, sagebrush, bitter brush, weeds, and grass.

GENERAL DESCRIPTION

The greater part of the township, covered by the present survey, is on Black Mesa and is largely a rolling desert. To the east are the breaks of Cottonwood Creek and to the west are those of Butler Wash. The timber consists mainly of dwarf juniper and a few pinon pines. These are of little value except for firewood and post. The vegetation is principally sagebrush, blackbrush, bitter brush, weeds, and grass. In the west range of sections is Comb Reef, a high rib of barren sandstone, inaccessible from the west and cut on its eastern slope by deep box canyons draining eastward into Butler Wash. Comb Wash with an intermittent stream of water drains southward along the west boundary. There are many unimproved roads in the township but most of these are for the temporary use of prospectors and graziers. Running northerly over the top of Black Mesa is a road, leading from lower Butler Wash to Blanding, and along Comb Wash is a main road leading from Highway 47 to the upper Comb Wash. The entire area is suitable mainly for grazing and shows evidence of having been badly overgrazed. Prospecting is being carried on throughout the area for uranium and allied minerals. On the top of Black Mesa many pit

SUBDIVISION OF T. 38 S., R. 21 E.

Chains

house ruins were noted and in the deeper canyons, especially along the west side of **Butler Wash**, are many cliff dwelling ruins.

4-229
(August 1947)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
William N. Bryan	Principal Assistant
Edgar B. Hayes	Principal Assistant
William D. Bowes	Chairman
Rex B. Hayes	Chainman
Parley G. Bagley	Chainman
Linnie A. Marler	Chainman
Joseph M. Cutler	Chainman
Kenneth R. Small	Flagman
Craig A. Redd	Flagman
Thomas H. Taylor	Cornerman

CERTIFICATE OF CADASTRAL ENGINEER

I, Robert C. Yundt, HEREBY CERTIFY upon honor that
pursuance of special instructions bearing date of the 26th day of May, 1954
I have surveyed portions of the subdivision, completing the survey of Township 38 South
Range 21 East

of the Salt Lake Meridian, in the State of Utah, which are
represented in the foregoing field notes as having been executed by me and under my direction; and that
said survey has been made in strict conformity with said instructions, the Manual of Instructions for the
Survey of the Public Lands of the United States, and in the specific manner described in the foregoing
field notes.

Salt Lake City, Utah
February 24, 1954

Robert C. Yundt
Robert C. Yundt
Cadastral Engineer

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., DEC 21 1954, 1954

The foregoing field notes of the survey of portions of the subdivision, completing the
survey of Township 38 South, Range 21 East, of the Salt Lake Meridian, Utah

executed by Robert C. Yundt, Cadastral Engineer

having been critically examined and found correct, are hereby approved.

Donald B. Clement
Donald B. Clement
Chief, Branch of Engineering and Construction
Acting Cadastral Engineering Staff Officer

~~CERTIFICATE OF TRANSCRIPT~~

~~I CERTIFY that the foregoing transcript of the field notes of the above described surveys in~~
~~is a true copy of the original field notes.~~

~~*Chief, Branch of Engineering and Construction*~~

1947
MARCH 1948

"BOOK B"

RECEIVED
MAR 29 1948
DEPARTMENT OF INTERIOR
PUBLIC SURVEY OFFICE
SALT LAKE CITY, UTAH

UNITED STATES
DEPARTMENT OF THE INTERIOR
~~GENERAL LAND OFFICE~~
BUREAU OF LAND MANAGEMENT

FIELD NOTES

OF THE

SURVEY OF THE WEST BOUNDARY AND A PORTION OF THE SUBDIVISION OF

T. 38 S., R. 21 E.,

Of the Salt Lake Meridian,

In the State of Utah

EXECUTED BY

Robert C. Yundt, Cadastral Engineer

Under special instructions dated May 26, 1947, which provided
for the surveys included under Group No. 356, Utah, bearing the approval of the
Director, Bureau of Land Management
~~Commissioner of the General Land Office~~ under date of June 9, 1947
and assignment instructions dated September 15, 1947.

Survey commenced October 29, 1947.

Survey completed December 10, 1947.

STATE OF MISSOURI
 DEPARTMENT OF REVENUE
 TAX MAPS DIVISION

INDEX DIAGRAM.

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Chains

T. 38 S., R. 21 E.

The following field notes are those of a survey of the west boundary and the subdivisional lines of secs. 8, 17, 20, 29, and 32, T. 38 S., R. 21 E., Salt Lake Meridian, Utah. The authority for this survey is contained in memorandum received from the Director, Bureau of Land Management, dated May 8, 1947, based upon the need of these surveys in connection with range management and classification of lands.

The east boundary of T. 38 S., R. 21 E., was surveyed by Miller and Thoma, in 1912, under special instructions for the survey of Group 16, Utah. The north boundary of the township was surveyed by Nelson and Terry, in 1919, under special instructions for the survey of Group 69, Utah. The south boundary was surveyed under the special instructions for this group as shown in the official records of surveys made in T. 39 S., R. 21 E.

The survey was commenced October 29, 1947 and executed with Buff and Buff solar transit No. 14191, used by Robert C. Yundt, Cadastral Engineer. The bearings of the lines were determined by the solar transit method, and the survey was made in connections with surveys made in Ts. 37 and 39 S., R. 21 E. For full description and tests of the instrument, see those given in the official record of the surveys made in T. 37 S., R. 21 E., of this group. The instrument was kept in good adjustment throughout the progress of the survey and was tested frequently on the meridian determined by observations made upon Polaris September 22, 1947, near the cor. of Ts. 37 and 38 S., Rs. 21 and 22. E.

The measurements were made with a Lallie steel tape 8 chains in length. The tape was graduated every link for the first 100 links and thereafter at intervals of 10 links. The tape was tested, comparison being made with a Lufkin standard steel tape 1 chain in length and found correct. The measurements were made on the slope, the vertical angle at each interval determined with clinometers in good adjustment and the slope measurements properly reduced to true horizontal distances which appear in this record.

The geographic positions used in this survey were determined by computation from U.S. Geological Survey triangulation station "Section Four," which station is identical with the cor. of secs. 4, 5, 8, and 9, T. 38 S., R. 22 E. The latitude given at this station is $37^{\circ}30'17.96''$ N., and the longitude is $109^{\circ}30'42.01''$ W., therefore, the approximate geographic position of the SE. cor. of T. 38 S., R. 21 E., is latitude $37^{\circ}25'57''$ N., and the longitude is $109^{\circ}32'53''$ W. The magnetic declination at this point is $15^{\circ}00'$ E.

WEST BOUNDARY OF T. 38 S., R. 21 E.

The cor. of Ts. 38 and 39 S., Rs. 20 and 21 E., is marked by an iron post, 3 ins. diam., firmly set, marked and witnessed as described in the official record of the survey of the W. bdy. of T. 39 S., R. 21 E., of this group.

Thence, from the above cor.

N. $0^{\circ}13'$ E., on a random line, setting temporary $\frac{1}{4}$ sec. and sec. cors. at intervals of 40.00 chs. along the line, bet. Ts. 38 S., Rs. 20 and 21 E., and at 480.61 chs., fall 14 lks. to the right of the true point for the cor. of Ts. 37 and 38 S., Rs. 20 and 21 E., which is East, 2.87 chs. dist. from the witness cor. to the cor. of said townships. The witness cor. is marked by an iron post, 3 ins. diam., firmly set, marked and witnessed as described in the

WEST BOUNDARY OF T. 38 S., R. 21 E.

Chains

official record of the survey of T. 37 S., R. 20 E., Group 69, Utah. The correction is 2.3 lks. W. per mile, counting from the place of beginning.

Thence, from the cor. of Ts. 38 and 39 S., Rs. 20 and 21 N. 0°12' E., bet. secs. 31 and 36, marking and blazing the true line.

Over rolling bottom lands of Comb Wash, through scattered cottonwood trees and a medium dense short undergrowth.

- 2.90 Wash, 30 lks. wide, 5 ft. deep, drains S. 80° E.
- 19.40 Top of right bank of Comb Wash, bears N. 10° W. and S. 10° E.; thence along dry bottom of wash draining southerly
- 32.00 Top of right Bank of Comb Wash, bears NE. and S. 10° W.
- 40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 31 and 36.
- Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap marked

S36	S31
-----	-----

1947

Deposit broken glass at the base of the post.

- 44.80 Wash, 20 lks. wide, 10 ft. deep, drains E.
- 54.80 Wash, 30 lks. wide, 10 ft. deep, drains S. 80° E.
- 56.70 Bend in same wash, drains SW. from the NW.
- 73.80 Wash, 20 lks. wide, 10 ft. deep, drains E.
- 80.00 Point for the cor. of secs. 25, 30, 31, and 36.

Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, with brass cap marked

T38S	
R20E	R21E
S25	S30

S36	S31
-----	-----

1947

Deposit broken glass at the base of the post.

Land, rolling.

Soil, deep sand.

Timber, a few scattered cottonwood; undergrowth of shade-scale, greasewood, sage, and rabbit brush.

- N. 0°12' E., bet. secs. 25 and 30.
- Over rolling bottom lands of Comb Wash, through very scattered cottonwood and medium dense short undergrowth.
- 15.60 Wash, 30 lks. wide, 5 ft. deep, drains E.
- 28.80 Wash, 30 lks. wide, 1 ft. deep, drains SE.

WEST BOUNDARY OF T. 38 S., R. 21 E.

Chains

- 40.00 Point for the $\frac{1}{4}$ sec. cor. of sees. 25 and 30.
Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap marked

S25 | S30

1947

Deposit broken glass at the base of the post.

- 53.10 Wash, 1.50 chs. wide, 10 ft. deep, drains N. from the W.; thence along bottom of wash.

- 56.70 Leave same, drains NE. from the S.

- 64.70 Comb Wash, 1.50 chs. wide, 2 ft. deep, drains E. from the W.

- 78.00 Recross dry bottom of Comb Wash, drains S. 20° W. from N. 20° E.

- 80.00 Point for the cor. of sees. 19, 24, 25, and 30.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap marked

S24 | S19

S25 | S30

1947

Deposit broken glass at the base of the post.

Land, rolling.

Soil, deep sand.

Timber, a few scattered cottonwood; undergrowth of shadscale, greasewood, sage and rabbit brush.

N. $0^{\circ}12'$ E., bet. sees. 19 and 24.

Over rolling bottom lands of Comb Wash, through very scattered cottonwood and a medium dense short undergrowth.

- 19.40 Comb Wash, 100 lks. wide, 7 ft. deep, drains S. 80° E., about 5.00 chs. dist., thence S., from N. 70° W.

- 31.00 Recross dry bottom of Comb Wash, 5.00 chs. wide, 1 ft. deep, drains S. 20° W. from N. 20° E.

- 35.30 Top of low sandy point, projects E.

- 40.00 Point for the $\frac{1}{4}$ sec. cor. of sees. 19 and 24.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap marked

S24 | S19

1947

Deposit broken glass at the base of the post.

WEST BOUNDARY OF T. 38 S., R. 21 E.

Chains

- 41.60 Unimproved road, bears NW. and SE.
- 65.00 Comb Wash, 2.00 chs. wide, 3 ft. deep, drains S. 40° E. from N. 40° W.
- 72.40 Recross Comb Wash, drains SW. from the NE.
- 80.00 Point for the cor. of secs. 13, 18, 19, and 24.
- Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, with brass cap marked

T38S	
R20E	R21E
S13	S18
S24	S19

1947

Deposit broken glass at the base of the post.

Land, rolling.

Soil, deep sand.

Timber, a few scattered cottonwood; undergrowth of shade-scale, greasewood, sage, and rabbit brush.

N. 0°12' E., bet. secs. 13 and 18.

Over rolling bottom lands of Comb Wash, through very scattered cottonwood and medium dense short undergrowth.

- 22.80 Comb Wash, 1.50 chs. wide, 5 ft. deep, drains S. 30° E. from N. 10° W.; thence along E. side of wash.

- 40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 13 and 18.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap marked

$\frac{1}{4}$	
S13	S18

1947

Deposit broken glass at the base of the post.

- 43.60 Comb Wash, drains SW. from the NE.

- 56.50 Enter bottom of Comb Wash, drains SE. from the N.; thence along bottom of wash.

- 63.25 Unimproved road, bears NE. and SW.

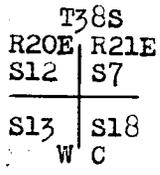
- 80.00 Point for the cor. of secs. 7, 12, 13, and 18, falls in bottom of Comb Wash, drains southerly from the E., and at the junction of wash in Mule Canyon draining from the NW. Impracticable to set a permanent cor. at this point.

- 82.80 Point for the witness cor. to the cor. of secs. 7, 12, 13, and 18, at top of right bank of Comb Wash, bears E. and W.

Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, with brass cap marked

WEST BOUNDARY OF T. 38 S., R. 21 E.

Chains



1947

from which

A cottonwood, 4 1/2 ft. diam., bears N. 3°30' W., 40 lks. dist., marked WC T38S R20E S12 BT.

No other bearing trees available.

Land, rolling.

Soil, deep sand.

Timber, a few scattered cottonwood; undergrowth of shadscale, greasewood, sage, and rabbit brush.

From the true point for the cor. of secs. 7, 12, 13, and 18.

N. 0°12' E., bet. secs. 7 and 12.

Over bottom of Comb Wash.

2.80 The witness cor. to the cor. of secs. 7, 12, 13, and 18; thence over rolling bottom land of Comb Wash, through very scattered cottonwood and medium dense short undergrowth.

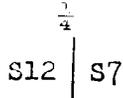
3.20 Unimproved road, bears NW. and SE.

15.10 Recross road, bears N. 10° E. and S. 10° W.

29.20 Recross road, bears N. 10° W. and S. 10° E.

40.00 Point for the 1/4 sec. cor. of secs. 7 and 12.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap marked



1947

Deposit broken glass at the base of the post.

65.00 Comb Wash, dry, drains S. 30° E.

66.30 Unimproved road, bears N. 60° E. and S. 60° W.

80.00 True point for the cor. of secs. 1, 6, 7, and 12, falls in bottom of Comb Wash, drains S. 60° W., where it is impracticable to set a cor.

82.00 Point for the witness cor. to the cor. of secs. 1, 6, 7, and 12.

Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, with brass cap marked

WEST BOUNDARY OF T. 38 S., R. 21 E.

Chains

arind

T38S	
R20E	R21E
S1	S6
WC	
1947	

from which

A cottonwood, 24 ins. diam., bears N. 51°45' W., 71 lks. dist., marked WC T38S R20E S1 BT.

No other bearing trees available.

Land, rolling.

Soil, deep sand.

Timber, a few scattered cottonwood; undergrowth of shadscale, greasewood, sage, and rabbit brush.

From the true point for the cor. of secs. 1, 6, 7, and 12. N. 0°12' E., bet. secs. 1 and 6.

Over rolling land, through very scattered cottonwood, and medium dense short undergrowth.

- 2.00 The witness cor. to the cor. of secs. 1, 6, 7, and 12.
- 4.80 Top of right bank of Comb Wash, bears E., 1.00 ch. dist., thence S., and W., 1.00 ch. dist., thence NW.; thence along bottom of wash.
- 14.20 Top of right bank of Comb Wash, bears N. 60° E. and S. 60° W.
- 40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 1 and 6.
- Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap marked
- | | |
|---------------|----|
| $\frac{1}{4}$ | |
| S1 | S6 |
| 1947 | |
- Deposit broken glass at the base of the post.
- 46.10 Comb Wash, drains E., 5.00 chs. dist., thence S., from W., 2.00 chs. dist., thence N.
- 52.90 Recross Comb Wash, drains W. from the E.; unimproved road in wash, bears E. and W.
- 56.40 Fence, bears E. and W.
- 77.40 Wash, drains E.
- 79.10 Fence, bears N. 10° W. and S. 10° E.
- 80.61 The true point for the cor. of Ts. 37 and 38 S., Rs. 20 and 21 E., which is East, 2.87 chs. dist. from the witness cor. to the cor. of said secs. The true cor. point falls in bottom of Comb Wash, draining southerly.

Land, rolling.

Soil, deep sand.

Timber, a few scattered cottonwood; undergrowth of greasewood, shadscale, sage, and rabbit brush.

SUBDIVISION OF A PORTION OF T. 38 S., R. 21 E.

Chains

From the cor. of secs. 4, 5, 32, and 33, on the S. bdy. of the township, marked by an iron post, 2 ins. diam., set, marked, and witnessed as described in the official record of the survey of the N. bdy. of T. 39 S., R. 21 E., of this group:

N. 0°06' E., bet. secs. 32 and 33, parallel to the E. bdy. of the township.

Ascend S. slope of broken rocky land, through medium dense timber and short undergrowth.

- 3.00 Sandstone ledge, 25 ft. high, bears E. and W.
- 6.80 Unimproved road, bears E. and W.
- 14.00 Spur, 170 ft. above cor., slopes W.; descend 280 ft. over rocky NW. slope to the $\frac{1}{4}$ sec. cor.
- 26.20 Unimproved road, bears SW., and NE., 2.00 chs. dist. to switch back.
- 27.20 Recross road, bears N. 30° E. and S. 30° W., about 3.00 chs. dist. to end.
- 40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 32 and 33.
- Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap marked

$\frac{1}{4}$
S32 | S33

1947

from which

A juniper, 5 ins. diam., bears N. 71°45' E., 110 lks. dist., marked $\frac{1}{4}$ S33 BT.

A juniper, 5 ins. diam., bears S. 69°15' W., 90 lks. dist., marked $\frac{1}{4}$ S32 BT.

Descend 30 ft. over NW. slope to draw.

- 53.00 Draw, drains S. 70° W.; ascend 80 ft. along W. slope.
- 72.00 Spur, slopes NW.; descend 60 ft. over NE. slope to cor.
- 80.00 Point for the cor. of secs. 28, 29, 32, and 33.

Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground to solid rock and in a mound of stone to top; with brass cap marked

T38S R21E
S29 | S28

S32 | S33

1947

from which

A juniper, 4 ins. diam., bears N. 42°45' E., 17 lks. dist., marked BT.

A juniper, 4 ins. diam., bears S. 17° W., 93 lks. dist., marked BT.

SUBDIVISION OF A PORTION OF T. 38 S., R. 21 E.

Chains

A juniper, 4 ins. diam.; bears N: 8° W., 19 lks. dist.; marked BT.

No bearing tree available. in sec. 33.

Land, broken.

Soil, sandy.

Timber, scrub juniper and pinon; undergrowth of sage, black, and rabbit brush.

N. 0°06' E., bet. secs. 28 and 29.

Descend gradual NW. slope of rolling land, through scattered scrub timber and undergrowth of grass and sagebrush.

6.10 Wash, 20 lks. wide, 10 ft. deep, drains W.

12.70 Shallow wash, drains SW.; leave grass and enter greasewood.

23.80 Sandstone ledge, 30 ft. high, bears NW. and SE.

33.00 Sand spur, 130 ft. above the sec. cor., slopes W.; descend 90 ft. over NW. slope to the $\frac{1}{4}$ sec. cor.

40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 28 and 29.

Set an iron post, 3 ft. long, 1 in. diam., 25 ins. in the ground and a small mound of stone, with brass cap marked

$\frac{1}{4}$
S29 | S28
1947

from which

A juniper, 6 ins. diam., bears S. 59°45' E., 60 lks. dist., marked $\frac{1}{4}$ S28 BT.

A juniper, 5 ins. diam., bears S. 64°15' W., 32 lks. dist., marked $\frac{1}{4}$ S29 BT.

44.00 Shallow draw, drains W.; ascend gradual SW. slope.

46.80 Spur, slopes S. 80° W., about 4.00 chs. dist. to end; descend gradual NW. slope.

48.30 Shallow draw, drains SW.; ascend.

70.00 Spur, 300 ft. above the $\frac{1}{4}$ sec. cor., slopes S. 80° W.

79.00 Shallow draw, drains W.

80.00 Point for the cor. of secs. 20, 21, 28, and 29.

Set an iron post, 13 ins. long, 2 ins. diam., 8 ins. in a hole drilled in the solid sandstone, with brass cap marked

T38S | R21E
S20 | S21
S29 | S28

1947

from which

SUBDIVISION OF A PORTION OF T. 38 S., R. 21 E.

Chains

A juniper, 3 ins. diam., bears N. 65° E., 65 lks. dist., marked BT.

A juniper, 4 ins. diam., bears S. 64°30' E., 78 lks. dist., marked BT.

No other suitable bearing trees available.

Land, rolling.

Soil, sandy.

Timber, scrub juniper and pinon; undergrowth of sage, black, and rabbit brush, greasewood and shadscale.

N. 0°06' E., bet. secs. 20 and 21.

Ascend 120 ft. over SW. slope of broken land, through scattered timber and medium dense short undergrowth.

5.20 Spur, slopes N. 50° W.; descend 420 ft. over rocky NW. slope to the witness cor. to the $\frac{1}{4}$ sec. cor.

40.00 True point for the $\frac{1}{4}$ sec. cor. of secs. 20 and 21, falls in bottom of wash, 20 lks. wide, 10 ft. deep, drains NW., where it is impracticable to set a permanent cor.

40.40 Point for the witness cor. to the $\frac{1}{4}$ sec. cor. of secs. 20 and 21.

Set an iron post, 7 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap marked

320	321
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WC

1947

from which

A juniper, 8 ins. diam., bears S. 37°15' E., 175 lks. dist., marked WC & S21 BT.

A juniper, 20 ins. diam., bears S. 14°45' W., 79 lks. dist., marked WC & S20 BT.

41.80 Dry wash, 1.80 cns. wide, 10 ft. deep, drains S. 80° W.; ascend 60 ft. over gradual SW. slope.

53.50 Sand spur, slopes SE.; descend 25 ft. along a NE. slope.

55.60 Shallow draw, drains SE.; ascend 150 ft. over a SW. slope.

79.50 Sand spur, slopes W.; descend 20 ft. over NW. slope to cor.

80.00 Point for the cor. of secs. 16, 17, 20, and 21.

Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, with brass cap marked

T38S	R21E
S17	S16

S20	S21
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1947

from which

SUBDIVISION OF A PORTION OF T. 38 S., R. 21E.

Chains

A juniper, 6 ins. diam., bears N. $36^{\circ}30'$ E., 55 lks. dist., marked S16 BT.

A juniper, 3 ins. diam., bears N. $67^{\circ}30'$ W., 48 lks. dist., marked BT.

No other suitable bearing trees available.

Land, rolling.

Soil, sandy.

Timber, scrub juniper and pinon; undergrowth of sage, black, and rabbit brush, greasewood, and shadscale.

N. $0^{\circ}06'$ E., bet. secs. 16 and 17.

Over rolling hills, through scattered scrub timber and undergrowth.

25.50 Wash, 20 lks. wide, 3 ft. deep, drains S. 30° W.; ascend gradual SE. slope, 100 ft. to the $\frac{1}{4}$ sec. cor.

40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 16 and 17; on the S. point of small spur from N. 5° E.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap marked

	$\frac{1}{4}$	
S17		S16
1947		

from which

A pinon, 4 ins. diam., bears S. 45° E., 145 lks. dist., marked $\frac{1}{4}$ S16 BT.

A juniper, 6 ins. diam., bears S. 8° W., 42 lks. dist., marked $\frac{1}{4}$ S17 BT.

Ascend 70 ft. along W. slope of spur near top.

49.00 Spur, slopes S. 5° E. from N. 10° W.

60.00 Top of white sandstone ledge, bears NE. and SW.; descend over low ledges.

70.00 Rocky draw, drains W.; ascend SW. slope over ledges.

79.80 Top of sandstone ledge, 95 ft. high, bears NW. and SE.

80.00 Point for the cor. of secs. 8, 9, 16, and 17.

Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground to solid rock and in a large mound of stone to top, with brass cap marked

T38S	R21E
S8	S9
S17	S16
1947	

From which

A pinon, 3 ins. diam., bears S. 60° E., 27 lks. dist., marked BT.

SUBDIVISION OF A PORTION OF T. 38 S., R. 21 E.

Chains

A pinon, 3 ins. diam., bears N. 55° W., 51 lks. dist., marked BT.

No other bearing trees available.

Land, rolling and broken.

Soil, sandy.

Timber, scrub juniper and pinon; undergrowth of sage, black, and rabbit brush.

N. 0°06' E., bet. secs. 8 and 9.

Ascend 120 ft. over SW. slope of mountainous land, through medium dense scrub timber and short undergrowth.

40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 8 and 9.

Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground and a small mound of stone to top, with brass cap marked

$\frac{1}{4}$
 SE | SW
 1947

from which

A juniper, 3 ins. diam., bears N. 24°15' E., 22 lks. dist., marked BT.

No other bearing tree available.

40.85 Spur, slopes S. 60° W.; descend gradual NW. slope.

50.00 Small draw, drains SW.

80.00 Point for the cor. of secs. 4, 5, 8, and 9.

Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, with brass cap marked

T38S R21E
 S5 | S4
 SE | SW
 1947

from which

A pinon, 3 ins. diam., bears N. 30° E., 39 lks. dist., marked BT.

A juniper, 3 ins. diam., bears N. 20° W., 74 lks. dist., marked BT.

No other bearing trees available.

Land, broken and rolling.

Soil, sandy.

Timber, scrub juniper and pinon; undergrowth of sage, black, and rabbit brush, amole, and grass.

Note; the survey of this range line was discontinued at this cor.

SUBDIVISION OF A PORTION OF T. 38 S., R. 21 E.

Chains

From the cor. of secs. 5, 6, 31, and 32, on the S. bdy. of the township, which is marked by an iron post, 2 ins. diam., set, marked, and witnessed as described in the official record of the survey of the N. bdy. of T. 39 S., R. 21 E., of this group.

N. 0°06' E., bet. secs. 31 and 32.

Descend 10 ft. over NE. slope of sandstone outcroppings, through scattered timber and medium dense short undergrowth.

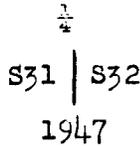
0.80 Small rocky draw, drains S. 20° E.

5.00 Low spur, slopes E.; descend 125 ft. along a NE. slope.

16.20 Boxed canyon, 75 ft. deep, drains E.; ascend 60 ft. along a SE. slope.

40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 31 and 32; on barren sandstone.

Set an iron post, 14 ins. long, 1 in. diam., 10 ins. in a hole drilled in the solid sandstone, with brass cap marked

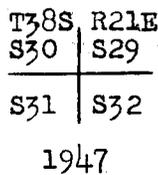


62.30 Head of draw, drains S. 10° E., at saddle in spur sloping E.

77.00 Boxed canyon, 50 ft. deep, drains E.

80.00 Point for the cor. of secs. 29, 30, 31, and 32; on sandstone surface rock.

Set an iron post, 14 ins. long, 2 ins. diam., 10 ins. in a hole drilled in the solid sandstone, with brass cap marked



Land, broken.

Soil, sand and rock.

Timber, scrub juniper and pinon; undergrowth of sage and black brush, grass, and weeds.

From the cor. of secs. 28, 29, 32, and 33.

S. 89°57' W., bet. secs. 29 and 32.

Ascend 90 ft. along N. slope of rolling land, through scattered scrub timber and medium dense short undergrowth.

17.35 Spur, slopes NE.; descend 170 ft. over general NW. slope to the $\frac{1}{4}$ sec. cor.

24.40 Sandstone ledge, 30 ft. high, bears NE. and SW.

30.00 Enter flat bottom lands of Butler Wash, bears N. and S.

39.99 Point for the $\frac{1}{4}$ sec. cor. of secs. 29 and 32.

SUBDIVISION OF A PORTION OF T. 38 S., R. 21 E.

Chains

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap marked

S29

$\frac{1}{4}$

S32

1947

from which

A juniper, 7 ins. diam., bears N. $84^{\circ}15'$ W., 4.04 chs. dist., marked $\frac{1}{4}$ S29 BT.

No other bearing tree available.

Raise a mound of stone, $2\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor., and deposit broken glass at the base of same.

40.30 Dim road, bears N. and S.

44.70 Wash, 100 lks. wide, 10 ft. deep, drains SW.

49.60 Top of left bank of Butler Wash, 40 ft. high, bears N. and S.; thence across wash which drains S.

51.70 Top of right bank of Butler Wash, 40 ft. high, bears N. and S.

53.10 Wash, 30 lks. wide, 15 ft. deep, drains S.

57.00 Wash, 40 lks. wide, 15 ft. deep, drains SE.

69.50 Wash, 30 lks. wide, 10 ft. deep, drains N. 70° E.

78.00 Small wash, drains S. 70° E.

79.98 The cor. of secs. 29, 30, 31, and 32.

Land, rolling.

Soil, deep sand.

Timber, scrub juniper and pinon; undergrowth of greasewood, grass, and weeds.

N. $0^{\circ}06'$ E., bet. secs. 29 and 30.

Over broken sandstone outcroppings, through medium dense scrub timber and short undergrowth.

0.60 Small sandstone draw, drains E.

8.00 Sandstone canyon, drains E.

26.30 Low spur, slopes N. 80° E.

40.00 Point for the sec. cor. of secs. 29 and 30; on sandstone surface rock.

Set an iron post, 12 ins. long, 1 in. diam., 8 ins. in a hole drilled in the solid sandstone, with brass cap marked

S30 | S29

1947

from which

SUBDIVISION OF A PORTION OF T. 38 S., R. 21 E.

Chains

A juniper, 8 ins. diam., bears S. 36°30' E., 111 lks. dist., marked $\frac{1}{4}$ S29 BT.

A juniper, 12 ins. diam., bears N. 7° W., 116 lks. dist., marked $\frac{1}{4}$ S30 BT.

46.50 Draw, 2.00 chs. wide, 15 ft. deep, drains E.

55.00 Wash, 30 lks. wide, 15 ft. deep, in draw, drains E., about 7.00 chs. dist., thence S.

58.80 Wash, 60 lks. wide, 15 ft. deep, in draw, drains SE.

70.20 Shallow wash, drains SE.

76.40 Bend in small wash, drains S. 20° W. from the NW.

80.00 Point for the cor. of secs. 19, 20, 29, and 30.

Set an iron post, 3 ft. long, 2 ins. diam., 15 ins. in the ground to solid rock and in a large mound of stone to top, with brass cap marked

T38S	R21E
S19	S20
S30	S29

1947

from which

A juniper, 12 ins. diam., bears N. 48°15' E., 102 lks. dist., marked T38S R21E S20 BT.

A juniper, 12 ins. diam., bears S. 16°45' W., 36 lks. dist., marked S30 BT.

No other bearing trees available.

Land, broken.

Soil, sandy.

Timber, scrub juniper and pinon; undergrowth of sage and black brush, amole, and weeds.

From the cor. of secs. 20, 21, 28, and 29.

S. 89°59' W., bat. secs. 20 and 29.

Descend 345 ft. along a gradual W. slope over ledges, through scattered timber and short undergrowth.

8.00 Draw, drains SW.; continue descent.

18.00 Draw, drains NW.; continue descent along a NW. slope.

21.00 Enter rolling bottom lands of Butler Wash, bears N. and S.; descend gradual NW. slope through greasewood and grass.

39.97 Point for the $\frac{1}{4}$ sec. cor. of secs. 20 and 29.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap marked

$\frac{1}{4}$	S20
	S29

1947

SUBDIVISION OF A PORTION OF T. 38 S., R. 21 E.

Chains

- Deposit, broken glass at the base of the post.
- 40.60 Unimproved road, bears N. and S.
- 48.80 Top of left bank of large wash, 20 ft. high, bears SW. and N. 60° E.; thence across wash draining SW.
- 51.20 Top of right bank of wash, bears SW. and N. 60° E.
- 53.20 Top of left bank of Butler Wash, 40 ft. high, bears N. and S.; thence across dry bottom of wash draining S.
- 55.40 Top of right bank of Butler Wash, 40 ft. high, bears N. and S.; ascend gradual E. slope.
- 63.80 Leave bottom lands of Butler Wash and ascend more abrupt E. slope, through medium dense timber, bears N. and S.
- 64.50 Spur, 80 ft. above Butler Wash, slopes S.; descend 40 ft. over W. slope to sec. cor.
- 79.94 The cor. of secs. 19, 20, 29, and 30.
- Land, broken and rolling.
Soil, sandy.
Timber, scrub juniper and pinon; undergrowth of greasewood, black, sage, and rabbit brush.
-
- N. 0°06' E., bet. secs. 19 and 20.
- Over general E. slope of broken land, through medium dense timber and short undergrowth.
- 4.50 Wash, drains SW., 1.00 ch. dist., thence S., from the N.; thence along bottom of wash.
- 11.50 Leave bottom of wash, drains S. from the W.
- 17.00 Sandstone ledge, 15 ft. high, bears N. 10° W. and S. 10° E.
- 40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 19 and 20.
- Set an iron post, 14 ins. long, 1 in. diam., 8 ins. in a hole drilled in the solid sandstone, with brass cap marked
- $$\begin{array}{c} \frac{1}{4} \\ S19 \mid S20 \\ 1947 \end{array}$$
- from which
- A juniper, 4 ins. diam., bears N. 82° W., 68 lks. dist., marked BT.
- No other bearing tree available.
- 46.10 Low ridge, bears S. 5° E. from N. 20° E.; descend gradual NW. slope.
- 65.70 Wash, 100 lks. wide, 20 ft. deep, in bottom of canyon, drains E.
- 69.60 Small draw, drains SE. from N. 10° W.
- 80.00 Point for the cor. of secs. 17, 18, 19, and 20.

SUBDIVISION OF A PORTION OF T. 38 S. R. 21 E.

Chains

Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, with brass cap marked

T38S	R21E
S18	S17
S19	S20

1947

from which

A point on a sandstone ledge, marked X B0, bears N. 85°27' E., 53 lks. dist.

A juniper, 4 ins. diam., bears S. 67°30' W., 77 lks. dist., marked S19 BT.

No other accessories available.

Land, broken.

Soil, sandy.

Timber, scrub juniper and pinon; undergrowth of whadscale, sage, and black brush.

From the cor. of secs. 16, 17, 20, and 21.

S. 89°54' W., bet. secs. 17 and 20.

Descend 60 ft. over broken NW. slope, through scattered scrub timber and medium dense short undergrowth.

35.00 Enter flat bottom lands of Butler Wash, bears N. 10° W. and S. 10° E.

37.00 Unimproved road, bears N. and S.

39.96 Point for the $\frac{1}{4}$ sec. cor. of secs. 17 and 20.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap marked

$\frac{1}{4}$	S17
	S20

1947

Deposit broken glass at the base of the post.

48.10 Butler Wash, 1.50 chs. wide, 30 ft. deep, drains S.; leave bottom land and ascend gradual E. slope.

58.90 Enter sandstone outcroppings, bears N. and S.

75.50 Low ridge, 200 ft. above the $\frac{1}{4}$ sec. cor., bears N. 10° E. and S.; descend NW. slope 70 ft. to cor.

79.92 The cor. of secs. 17, 18, 19, and 20.

Land, rolling and broken.

Soil, sandy.

Timber, scrub juniper and pinon; undergrowth of greasewood, sage, rabbit, and black brush.

SURVEY OF A PORTION OF T. 38 S., R. 21 E.

Chains

N. $0^{\circ}06'$ E., bet. secs. 17 and 18.

Over general E. slope of broken land, through scattered scrub timber and short undergrowth.

12.50 Low spur, slopes E.; descend gradual NE. slope.

31.10 Draw, drains SE.; ascend gradual SW. slope.

36.80 Low spur, slopes E.; thence along E. slope.

40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 17 and 18.

Set an iron post, 3 ft. long, 1 in. diam., 15 ins. in the ground to solid rock and in a large mound of stone to top, with brass cap marked

	$\frac{1}{4}$	
S18		S17

1947

from which

A pinon, 24 ins. diam., bears S. $37^{\circ}45'$ E., 98 lks. dist., marked $\frac{1}{4}$ S17 BT.A juniper, 14 ins. diam., bears N. $80^{\circ}45'$ W., 73 lks. dist., marked $\frac{1}{4}$ S18 BT.44.50 Enter barren sandstone, bears N. 10° E. and S. 10° W.

68.90 Sandstone draw, 2.00 chs. wide, 60 ft. deep, drains E.

80.00 Point for the cor. of secs. 7, 8, 17, and 18, on barren sandstone.

Set an iron post, 14 ins. long, 2 ins. diam., 10 ins. in a hole drilled in the solid sandstone, with brass cap marked

T38S	R21E
S7	SE

S18	S17
-----	-----

1947

from which

A pinon, 14 ins. diam., bears S. 65° E., 239 lks. dist., marked T38S R21E S17 BT.A juniper, 12 ins. diam., bears S. 52° W., 158 lks. dist., marked T38S R21E S18 BT.

No other suitable bearing trees available.

Land, broken.

Soil, shallow sand.

Timber, scrub juniper and pinon; undergrowth of sage, shadscale, weeds, and grass.

From the cor. of secs. 8, 9, 16, and 17.

S. $89^{\circ}55'$ W., bet. secs. 8 and 17.

Descend over broken land, through scattered scrub timber and medium dense short undergrowth.

SUBDIVISION OF A PORTION OF T. 38 S. R. 22 E.

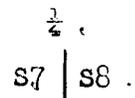
Chains	
0.90	Sandstone ledge, 100 ft. high, bears NW. and SE.
14.90	Rocky draw, drains S.
29.80	Rocky spur, slopes S.
32.00	Unimproved road, bears N. and S.
39.94	Point for the $\frac{1}{4}$ sec. cor. of secs. 8 and 17.
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap marked
	$\frac{1}{4} \frac{S8}{S17}$
	1947
	from which
	A juniper, 6 ins. diam., bears S. $32^{\circ}15'$ E., 60 lks. dist., marked $\frac{1}{4}$ S17 BT.
	A juniper, 10 ins. diam., bears N. $86^{\circ}30'$ W., 48 lks. dist., marked $\frac{1}{4}$ S8 BT.
50.90	Top of E. bank of Butler Wash, 40 ft. high, bears S. and N: 10° W.; thence across bottom of wash draining S.
53.60	Top of W. bank of Butler Wash, 40 ft. high, bears N. and S. thence over bottom lands of wash.
60.00	Leave bottom lands of Butler Wash and ascend over sandstone outcroppings.
61.00	Sandstone spur, slopes SE., 3.00 chs. dist. to end; descend SW. slope.
65.40	Sandstone draw, drains SE.
68.90	Recross sandstone draw, drains NE.
70.40	Recross sandstone draw, drains SE.; ascend E. slope.
76.50	Sandstone spur, slopes S. 70° E.
79.88	The cor. of secs. 7, 8, 17, and 18.
	Land, broken.
	Soil, sandy.
	Timber, scrub juniper and pinon; undergrowth of sage, black, and rabbit brush, shadscale, and greasewood.
	N. $0^{\circ}06'$ E., bet. secs. 7 and 8.
	Ascend 25 ft. over S. slope of broken land, through medium dense timber and scattered undergrowth.
1.10	Sandstone spur, slopes S. 70° E.; descend gradual NE. slope.
10.50	Small boxed canyon, 1.00 ch. wide, 60 ft. deep, drains S. 80° E.; ascend SE. slope.
20.80	Sandstone spur, slopes E.; descend NE. slope.
25.80	Boxed canyon, 25 ft. deep, drains E.; ascend SE. slope.

SUBDIVISION OF A PORTION OF T. 38 S., R. 21 E.

Chains

40.00 Point for the 1/4 sec. cor. of secs. 7 and 8; on top of rocky spur, slopes E.

Set an iron post, 12 ins. long, 1 in. diam., 8 ins. in a hole drilled in the solid sandstone, with brass cap marked



1947

from which

A juniper, 3 ins. diam., bears S. 81°45' E., 147 lks. dist., marked BT.

A pinon, 3 ins. diam., bears N. 66°45' W., 102 lks. dist., marked BT.

48.30 Sandstone draw, drains S. 70° E.; ascend 100 ft. over SE. slope.

53.20 Sandstone spur, slopes E.; descend 135 ft. over NE. slope.

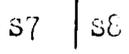
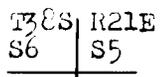
59.30 Sandstone draw, drains N. 80° E., 1.00 ch. dist. to junction with draw which drains S. 80° E.; continue descent.

60.10 Sandstone draw, drains S. 80° E.; ascend 135 ft. over SE. slope.

69.00 Sandstone spur, slopes E.; descend 50 ft. to cor.

80.00 Point for the cor. of secs. 5, 6, 7, and 8; on barren sandstone.

Set an iron post, 12 ins. long, 2 ins. diam., 8 ins. in a hole drilled in the solid sandstone, with brass cap marked



1947

from which

A pinon, 3 ins. diam., bears N. 35°07' E., 147 lks. dist., marked BT.

A pinon, 14 ins. diam., bears N. 11°15' W., 328 lks. dist., marked T38S R21E S6 BT.

No other bearing trees available.

Land, broken.

Soil, shallow sand.

Timber, scrub juniper and pinon; undergrowth of black and sage brush.

From the cor. of secs. 4, 5, 8, and 9.

S. 89°57' W., bet. secs. 5 and 8.

Descend SW. slope of broken land, through scattered scrub timber and medium dense short undergrowth.

SUBDIVISION OF A PORTION OF T. 38 S., R. 21 E.

Chains

- 9.00 Top of high broken sandstone ledges, bears NE. and SW.; descend 400 ft. over ledges to base of same.
- 21.90 Base of ledges, bears N. and S.; thence over rolling bench.
- 24.70 Unimproved road, bears N. and S.
- 39.60 Wash, 20 lks. wide, 5 ft. deep, drains S.
- 39.95 Point for the $\frac{1}{4}$ sec. cor. of secs. 5 and 8.
- Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap marked

$$\frac{1}{4} \frac{35}{4}$$

38.
1947

from which

A juniper, 3 ins. diam., bears N. $7^{\circ}30'$ W., 218 lks. dist., marked BT.

No other bearing tree available.

Ascend 25 ft. over E. slope.

- 45.00 Spur, slopes S.; descend SW. slope.
- 48.90 Top of sandstone ledge, 15 ft. high, bears N. and S.; descend W. slope over ledges, 250 ft. to bench.
- 51.40 The E. edge of bench, bears N. and S.; thence over bench.
- 56.00 Top of E. bank of Butler Wash, 80 ft. high, bears N. 20° E. and S.; thence across wash draining S.
- 58.70 Top of W. bank of Butler Wash, 80 ft. high, bears S. and NW.
- 71.00 Ascend NE. slope of sandstone outcroppings,
- 72.00 Sandstone spur, slopes SE. from N. 20° W.; descend SW. slope.
- 74.00 Sandstone draw, drains S. 20° E. from N. 20° W.; ascend 75 ft. over NE. slope.
- 79.90 The cor. of secs. 5, 6, 7, and 8.

Land, broken.

Soil, sandy.

Timber, scrub juniper and pinon; undergrowth of black, sage, and rabbit brush.

N. $0^{\circ}09'$ E., on true line, bet. secs. 5 and 6.

Descend 20 ft. over rolling sandstone slopes through scattered scrub timber and short undergrowth.

- 2.90 Sandstone draw, drains S. 25° E.; ascend SW. slope.
- 21.70 Sandstone spur, slopes E.; thence along E. slope.
- 22.50 Leave barren sandstone and enter sandstone outcroppings, bears NW. and E. Timber becomes medium dense.

SUBDIVISION OF A PORTION OF T. 38 S., R. 21 E.

Chains

38.50 Sandstone draw, drains NE.

40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 5 and 6; on gentle E. slope.

Set an iron post, 3 ft. long, 1 in. diam., 15 ins. in the ground to solid rock and in a large mound of stone to top, with brass cap marked

$$\frac{1}{4}$$

S6	S5
1947	

from which

A pinon, 10 ins. diam., bears S. $50^{\circ}30'$ E., 74 lks. dist., marked $\frac{1}{4}$ S5 BT.

A pinon, 6 ins. diam., bears N. $7^{\circ}45'$ W., 100 lks. dist., marked $\frac{1}{4}$ S6 BT.

50.00 Sandstone draw, 1.00 ch. wide, 30 ft. deep, drains E.

56.90 Comb Wash trail, bears N. 70° E. and S. 70° W.

56.90 Spur, slopes E.; descend 50 ft. over NW. slope.

68.90 Draw, drains NE.

70.00 Draw, drains SE., 50 lks. dist. to its junction with last draw; ascend 75 ft. over SE. slope.

78.40 Spur, slopes S. 80° E.; descend 20 ft. over NE. slope.

80.61 The cor. of secs. 5, 6, 31, and 32, on the N. bdy. of the township, which is marked by an iron post, 2 ins. diam., set, marked, and witnessed as described in the official record of the survey of this boundary under group 69, Utah.

Land, broken.

Soil, shallow sand.

Timber, scrub juniper and pinon; undergrowth of sage and black brush, amole, and weeds.

GENERAL DESCRIPTION.

The land in T. 38 S., R. 21 E., Salt Lake Meridian, Utah, that comes under this survey in general consists of the broken breaks of Black Mesa and Comb Reef and the bottom lands of Butler and Comb Washes. It is of a sandstone formation and has a general easterly and westerly drainage into Comb and Butler washes, which drains southerly. Comb Reef divides the drainage between Butler and Comb washes and the summit of the reef bears northerly and southerly through the west range of sections of the township. Comb Wash drains nearly due south along the west boundary of the township and Butler Wash drains nearly due south through secs. 5, 8, 17, 20, 29, and 32.

The soil in the bottom lands of Butler and Comb washes is a deep sandy loam while that on the slopes and breaks of the mesas and Comb Reef is a shallow loose sand with surface rock and outcroppings of sandstone.

Except for the bottom lands of the washes, the surveyed area is covered with a medium dense growth of scrub juniper and pinon timber, with scattered cottonwood along

GENERAL DESCRIPTION.

Chains

the banks of Butler and Comb washes. The undergrowth on the slopes consists of a medium dense short growth of shadscale, black, and sage brush, amole, mountain rush, and weeds, while that on the bottom lands of the washes consists of a dense growth of sage, and rabbit brush, and greasewood.

The only permanent water found on the surveyed area is small intermittent seeps along the bottoms of Butler and Comb washes. During the early spring months and the stormy periods, both these washes carry considerable water.

Most portions of the bottom lands of Butler and Comb washes can be reached by automobile. A dim unimproved road bears in a northerly direction along the west boundary of the township to Perkin's Ranch and southerly to its junction with the road from Bluff to Kayenta. A dim unimproved road, bears northerly through secs. 5, 8, 17, 20, 29, and 32, to its intersection with the road from Blanding to the natural bridges, and southerly to its intersection with roads leading to Blanding.

No portions of the surveyed area are suitable for farming. Small tracts of land along the bottom lands of Butler and Comb washes could be farmed if irrigated but at the time of the survey, no water was available for this purpose. No settlers were living on the surveyed area and it was being used as a winter grazing range for stock, under the supervision of the Bureau of Land Management.

No indications of oil, oil shale, coal, or other minerals were found.

U.S. Coast and Geodetic Survey triangulation station "Section Four," is located at the cor. of secs. 4, 5, 8, and 9 of T. 38 S., R. 22 E. The latitude of this station is given as latitude 37°30'17.96" N., and longitude 109°30'42.01" W.

CERTIFICATE OF SURVEYOR

I, Robert C. Yundt, Cadastral Engineer, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 26th day of May 1947, received from the Regional Chief, Division of Engineering, Region 4, with assignment instructions dated September 15, 1947, I have surveyed the west boundary and a portion of the subdivision of T. 38 S., R. 21 E.,

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Salt Lake City, Utah
March 23, 1948

Robert C. Yundt
Cadastral Engineer

CERTIFICATE OF APPROVAL

Bureau of Land Management
~~Office of Supervision of Surveys~~
Washington, D. C. NOV 18 1949

The foregoing field notes of the survey of the west boundary and a portion of the subdivision of T. 38 S., R. 21 E., Salt Lake Meridian, Utah

executed by Robert C. Yundt, Cadastral Engineer, under special instructions dated May 26, 1947, and assignment instructions dated September 15, 1947, having been critically examined, and the necessary corrections made prior to their certification by the engineer, the said field notes, and the survey therein described, are hereby approved.

Earl G. Harrington
Supervisor of Surveys
Chief, Division of Engineering

CERTIFICATE OF TRANSCRIPT

I certify that the foregoing transcript of the field notes of the above described surveys in is a true copy of the original field notes on file in the public survey office.

Supervisor of Surveys

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE SURVEY

OF

THE NORTH BOUNDARY

AND

A PORTION OF THE SUBDIVISION

AND

INDEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISION OF

TOWNSHIP 39 SOUTH, RANGE 20 EAST

Of the Salt Lake Meridian,

In the State of Utah

EXECUTED BY

Fred R. Chappell - Cadastral Surveyor

Vern E. Lane - Cadastral Surveyor (Chief of Party)

Under special instructions dated April 2, 1957, which provided

for the surveys included under Group No. 406, approved April 10, 1957

and assignment instructions dated June 14, 1957

Survey commenced July 12, 1957

Survey completed August 2, 1957

INDEX DIAGRAM

Township 39 South, Range 20 East

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Township 39 South, Range 20 East

Chains

The east 2½ miles of the south boundary were surveyed by A. D. Ferron in 1884 and independently resurveyed by C. F. Moore in 1929, at which time he surveyed the west 3½ miles of the south boundary. The north 3 miles of the west boundary were surveyed by A. D. Ferron in 1884 and independently resurveyed by C. F. Moore, W. H. Good and R. C. Yundt in 1928, at which time they surveyed the south 3 miles of the west boundary. The east boundary was surveyed by Robert C. Yundt, in 1947. The following field notes are those of a survey of the north boundary and that part of the subdivision considered sufficient in extent to mark the boundaries of those sections normally considered as State school land, and to facilitate the development of the natural resources. The corners along the latitudinal lines were established at the true latitudinal curve and all corners of the subdivision are established at points calculated to be in the same position they would occupy if the township had been completely subdivided.

The survey was executed with Buff and Buff solar transit No. 26066, being the property of the Bureau of Land Management and constructed in accordance with their standard specifications. The instrument has full vertical circles and improved type solar attachment. The horizontal plate has two double verniers placed opposite to each other, and the vertical circle has one double vernier. All verniers of the transit and solar attachment are graduated to single minutes of arc. The instrument was in good adjustment, and prior to the beginning of the field work it was examined and all errors were eliminated. The instrument was maintained in good adjustment during the survey.

The direction of the lines were determined by the solar transit method.

The geographic position of the southeast corner of the township, determined through ties made to U. S. Geological Survey triangulation station No. "4-108A" in Township 38 South, Range 20 East, section 1, is as follows:

Latitude 37° 20' 43.86" N.
 Longitude 109° 39' 24.29" W.

The mean magnetic declination was found to be 15° E.

The geographic position of U. S. Geological Survey triangulation station No. "4-108A" in Township 38 South, Range 20 East, section 1, is as follows:

Latitude 37° 30' 47.68" N.
 Longitude 109° 40' 28.88" W.

The measurements were made with steel ribbon tapes, eight chains in length. These tapes are graduated every link for the first chain, and thereafter at intervals of ten links. They were tested by comparison with a Lufkin standard steel tape, one chain in length, and found to be correct. The measurements were made on the slope, the vertical angle of each interval determined by the use of clinometers, and the slope distances properly reduced to horizontal equivalents, which appear in these notes. In most cases the distances were determined by chaining, but in some instances they were obtained by triangulation and in others by offsets and traverses. The details of these were thoroughly verified and only the true line distances are given in these notes.

North Boundary T. 39 S., R. 20 E.

Chains	
	<p>Beginning at the cor. of Ts. 38 and 39 S., Rs. 20 and 21 E., mkd. by an iron post, 3 ins. diam., set, mkd. and witnessed as described in the official records.</p> <p>S. 89° 56' W., bet. secs. 31 and 36.</p> <p>Over broken land, through scattered timber.</p> <p>Asc. 205 ft. over a general E. slope to $\frac{1}{4}$ sec. cor.</p>
40.00	<p>Point for the $\frac{1}{4}$ sec. cor. of secs. 1 and 36.</p> <p>Set an iron post, 30 ins. long, 2$\frac{1}{2}$ ins. diam., 10 ins. in the ground, and in a large mound of stone, with brass cap mkd.</p> <p style="text-align: center;">T38S R20E <u>S36</u> S 1 T39S 1957</p> <p>Deposit a sandstone rock, 4x4x2 ins., mkd. with a cross (X) at the base of the post.</p> <p>Asc. 35 ft. over E. slope.</p>
42.00	<p>Top of ascent on small rise, bears NW. and SE.; desc. 55 ft. over SW. slope.</p>
49.00	<p>Wash, 15 lks. wide, 1 ft. deep, course SE.; asc. 95 ft. over SE. slope.</p>
64.50	<p>Spur, sloping S.; desc. 120 ft. over a general W. slope to sec. cor.</p>
77.00	<p>Wash, 20 lks. wide, 2 ft. deep, course SW.</p>
80.00	<p>Point for the cor. of secs. 1, 2, 35 and 36.</p> <p>Set an iron post, 30 ins. long, 2$\frac{1}{2}$ ins. diam., 6 ins. in the ground, and in a large mound of stone, with brass cap mkd.</p> <p style="text-align: center;">T38S R20E <u>S35</u> <u>S36</u> S 2 S 1 T39S 1957</p> <p>Deposit a sandstone, 6x3x3 ins.; mkd. with a cross (X) at the base of the post.</p> <p>Land, broken.</p> <p>Soil, sandy and rocky.</p> <p>Timber, scattered pinion and juniper.</p> <p>Undergrowth, moderate grass, apple brush, yellow top and bitter brush.</p>
	<p>S. 89° 56' W., bet. secs. 32 and 35.</p> <p>Over broken land, through scattered timber.</p>
	<p>Desc. 20 ft. over broken W. slope.</p>
20.00	<p>Wash, 10 lks. wide, 1 ft. deep, course SE.; asc. 20 ft. over SE. slope.</p>
23.60	<p>Spur, sloping S.; desc. 25 ft. over SW. slope.</p>
26.00	<p>Wash, 30 lks. wide, 3 ft. deep, course S. 20° E.</p>

North Boundary, T. 39 S., R. 20 E.

Chains 31.00	Wash, 10 lks. wide, 2 ft. deep, course SE.; asc. 25 ft. over SE. slope.
35.70	Top of ascent, bears NE. and SW.; thence over nearly level land.
40.00	Point for the 1/4 sec. cor. of secs. 2 and 35. Set an iron post, 30 ins. long, 2 1/2 ins. diam., 8 ins. in the ground, to solid rock, and in a large mound of stone, with brass cap mkd.
	T38S R20E 1/4 S35 S 2 T39S 1957
	Leave nearly level land, bears N. and S.; asc. 145 ft. over a general E. slope.
49.20	Spur, sloping S.; desc. 45 ft. over rolling W. slope to sec. cor.
72.50	Wash, 10 lks. wide, 1 ft. deep, course SE.; asc. 25 ft. over NE. slope.
80.00	Point for the cor. of secs. 2, 3, 34 and 35. Set an iron post, 30 ins. long, 2 1/2 ins. diam., over a cross (X) cut in solid sandstone, and in a large mound of stone, with brass cap mkd.
	T38S R20E S34 S35 S 3 S 2 T39S 1957
	Land, broken. Soil, sandy and rocky. Timber, scattered pinion and juniper. Undergrowth, moderate grass, bitter brush, squawberry, apple brush, and some Brigham tea.
	S. 89° 56' W., bet. secs. 3 and 34. Over broken land, through scattered timber. Asc. 55 ft. over a general NE. slope.
10.00	Spur, sloping S.; desc. 215 ft. over broken W. slope to 1/4 sec. cor.
40.00	Point for the 1/4 sec. cor. of secs. 3 and 34. Set an iron post, 30 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.
	T38S R20E 1/4 S34 S 3 T39S 1957
	Deposit charcoal at the base of the post. Continue to desc. 35 ft. over W. slope.
49.00	Wash, 30 lks. wide, 3 ft. deep, course S.; asc. 165 ft. over E. slope.
66.40	Spur, sloping S.; desc. 30 ft. over rolling W. slope.
79.80	Small drain, course S.
80.00	Point for the cor. of secs. 3, 4, 33 and 34.

Chains

Set an iron post, 30 ins. long, 2½ ins. diam., 10 ins. in the ground to solid rock, and in a large mound of stone, with brass cap mkd.

T38S R20E

S33 | S34
S 4 | S 3

T39S

1957

Deposit a sandstone, 4x4x2 ins., mkd. with a cross (X) at the base of the post.

Land, broken.

Soil, sandy and rocky.

Timber, scattered pinion and juniper.

Undergrowth, moderate grass, bitter brush, Brigham tea, sage and black brush.

S. 89° 56' W., bet. secs. 4 and 33.

Over broken land, through heavy timber.

Asc. 115 ft. over NE. slope.

4.00 Wash, 10 lks. wide, 5 ft. deep, course SE.

19.50 Spur, sloping S.; desc. 30 ft. over SW. slope.

36.70 Wash, 10 lks. wide, 2 ft. deep, course SE.; asc. 30 ft. over SE. slope.

40.00 Point for the ¼ sec. cor. of secs. 4 and 33.

Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a large mound of stone, with brass cap mkd.

T38S R20E

¼ S33
S 4

T39S

1957

Thence by triangulation; asc. 520 ft. over abrupt E. slope.

62.40 Rim of mesa, bears NE. and SW., facing SE.; asc. 60 ft. over slight E. slope.

80.00 Point for the cor. of secs. 4, 5, 32 and 33.

Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

T38S R20E

S32 | S33
S 5 | S 4

T39S

1957

Deposit charcoal at the base of the post.

Land, broken.

Soil, sandy and rocky.

Timber, heavy pinion and juniper.

Undergrowth, moderate grass, bitter brush, Brigham tea, sage and black brush.

North Boundary, T. 39 S., R. 20 E.

Chains

S. 89° 56' W., bet. secs. 5 and 32.

Over broken to rolling land, through moderate timber.

Asc. 80 ft. over E. slope.

17.50 Spur, sloping S.; desc. 90 ft. over W. slope to 1/4 sec. cor.

40.00 Point for the 1/4 sec. cor. of secs. 5 and 32.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., over a cross (X) cut in solid sandstone, and in a large mound of stone, with brass cap mkd.

T38S R20E

S32
S 5
1957

Continue to base, 15 ft. over E. slope.

51.00 E. rim of canyon, bears N. and S.; thence by triangulation; desc. approx. 500 ft. over a series of ledges into canyon bottom.

72.20 Wash in canyon bottom, drains S. 65° W.; thence across a sagebrush opening.

80.00 Point for the cor. of secs. 5, 6, 31 and 32.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.

T38S R20E

S31 | S32
S 6 | S 5
T39S
1957

from which

A juniper, 5 ins. diam., bears S. 75° 30' E., 0.59 lks. dist., mkd. BT.

A juniper, 10 ins. diam., bears S. 75° W., 1.06 chs. dist., mkd. T39S R20E S6 BT.

Land, broken desert.

Soil, sandy clay, with the greater part exposed sandstone.

Timber, scattered juniper and pinion.

Undergrowth, scattered patches of medium dense sagebrush, scant bitter brush, grass and weeds.

S. 89° 56' W., bet. secs. 6 and 31.

Over broken desert land, through scattered timber and scant undergrowth; asc. 100 ft. over an E. slope.

5.00 Sandstone spur, projects S.; desc. 100 ft. over a W. slope.

20.00 Bottom of canyon, drains S. 70° E.; thence by triangulation; asc. approx. 500 ft. over a series of sandstone ledges, facing NE. and E.

40.00 Point for the 1/4 sec. cor. falls on an inaccessible ledge, where the corner cannot be perpetuated.

50.50 Sandstone rim of canyon, bears N. and S.

North Boundary, T. 39 S., R. 20 E.

Chains	Description
50.92	Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a large mound of stone, with brass cap mkd.
	W P <u>S31</u> S 6 1957
	Asc. 80 ft. over a gentle E. slope, through dense timber.
77.53	The cor. of T _s 38 and 39 S., R _s 19 and 20 E., mkd, by an iron post, 3 ins. diam., conforming to the record.
	Land, broken desert. Soil, sandy clay and exposed sandstone. Timber, scattered juniper and pinion, with a few cottonwood the first 50.00 chs., dense juniper and pinion the balance. Undergrowth, scatn sagebrush, bitter brush, rabbit brush, grass and weeds.
Portion of the Subdivision, T. 39 S., R. 20 E.	
	Beginning at the cor. of secs. 1, 2, 35 and 36 on the S. bdy. of the township, mkd. by an iron post, 2 ins. diam., conforming the the record.
	Thence
	N. 0° 01' W., bet. secs. 35 and 36.
	Over sandy clay badlands, through scattered undergrowth; desc. 40 ft. over a N. slope.
1.50	Small draw, drains SE.; asc. 90 ft. over a SW. slope.
5.00	Spur, projects W., 1.00 ch. to end in draw; thence over a series of small clay spurs and draws, putting the
8.30	Dirt road to Comb wash and Bluff, bears S. 40° E., continue over clay spurs and draws.
25.20	Old dirt road, bears S. 40° E.
26.10	Draw, 2 chs. wide, 50 ft. deep, drains S. 35° E.
37.90	Draw, 1.50 chs. wide, 30 ft. deep, drains S. 40° E.
40.00	Point for the ¼ sec. cor. of secs 35 and 36.
	Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd.
	T39S R20E ¼ <u>S35</u> <u>S36</u> 1957
	Deposit charcoal at the base of the post.
	Continue over clay and shale spurs and draws.
57.00	Wash, 1.50 chs. wide, 20 ft. deep, drains N. 60° E.

Portion of the Subdivision, T. 39 S., R. 20 E.

Chains

89.00

Point for the cor. of secs. 25, 26, 35 and 36.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.

T39S R20E
S26 | S25
S35 | S36
1957

Deposit charcoal at the base of the post.

Land, rolling desert badlands.

Soil, clay, shale, with some exposed limestone and gypsum.

Timber, none.

Undergrowth, scattered mountain rush, sagebrush, shadscale, grass and weeds.

Beginning at the cor. of secs. 25, 30, 31 and 36 on the E. bdy. of the township, mkd. by an iron post, 2 ins. diam., conforming to the record.

Thence

N. 89° 58' W., bet. secs. 25 and 36.

Over nearly level desert bench land, through medium dense undergrowth; desc. over a gentle W. slope.

29.40

Comb wash, 6.00 chs. wide, cut banks 20 ft. high, drains S. 60° E.; asc. over a gentle E. slope.

39.93

Point for the 1/4 sec. cor. of secs. 25 and 36.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.

T39S R20E
S25
1/4 S36
1957

Deposit charcoal at the base of the post.

67.10

Enter clay and shale badlands.

79.86

The cor. of secs. 25, 26, 35 and 36.

Land, gently rolling bottom land and desert badlands.

Soil, sandy clay loam and clay shale.

Timber, none.

Undergrowth, scant sagebrush, greasewood, tamarisk, grass and weeds.

Independent Resurvey of Portion of Subdivision

Superseding the survey made by A. D. Ferron in 1884.

Beginning at the cor. of secs. 2, 3, 34 and 35 on the S. bdy. of the township, an iron post, 2 ins. diam., conforming to the record.

Thence

N. 0° 01' W., bet. secs. 34 and 35.

Over gently rolling desert land, through medium undergrowth; asc. 75 ft. over a series of small spurs and swales, putting to the E.

Independent Resurvey of Portion of Subdivision T. 39 S., R. 20 E.

Chains 33.57	Old Mormon road, bears SE, and NW; thence over nearly level desert land.
40.00	<p>Point for the $\frac{1}{4}$ sec. cor. of secs. 34 and 35.</p> <p>Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 24 ins. in the ground with brass cap mkd.</p> <p style="text-align: center;">T39S R20E * S34 S35 1957</p>
	Deposit charcoal at the base of the post.
	No evidence of the Ferron corner.
	Asc. 25 ft. over a S. slope.
52.40	Spur, projects E.; desc. 100 ft. over a N. slope.
80.00	<p>Point for the cor. of secs. 26, 27, 34 and 35.</p> <p>Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T39S R20E S27 S26 S34 S35 1957</p>
	Deposit charcoal at the base of the post.
	No evidence of the Ferron corner.
	<p>Land, gently rolling desert.</p> <p>Soil, sandy clay loam.</p> <p>Timber, a few widely scattered juniper.</p> <p>Undergrowth, medium sagebrush, mountain rush, grass and weeds.</p>
	<p>Beginning at the cor. of secs. 3, 4, 33 and 34, on the S. bdy. of the township, mkd. by an iron post, 2 ins. diam., conforming to the record, with original survey.</p>
	Thence
	N. $0^{\circ} 02'$ W., bet. secs. 33 and 34.
	Over broken and rolling desert land, through widely scattered timber and scant undergrowth.
4.00	Wash, 40 lks. wide, 4 ft. deep; drains SE. From SW.; asc. 210 ft. over ledgy S. slope.
11.30	Rim of sandstone ledges; bears NE. from W.; asc. 115 ft. over gently rolling land, sloping to the S.
30.00	Top of sand rise; thence across gently rolling land.
40.00	<p>Point for the $\frac{1}{4}$ sec. cor. of secs. 33 and 34.</p> <p>Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 8 ins. in the ground to solid rock, and in a mound of stone, with brass cap mkd.</p> <p style="text-align: center;">T39S R20E * S33 S34 1957</p>
	Deposit a sandstone, 4x3x2 ins., mkd. with a cross (X) at the base of the post.
	Thence over nearly level desert land.

Portion of the Subdivision, T. 39 S., R. 20 E.

Chains
80.00

Point for the cor. of secs. 27, 28, 33 and 34.

Set an iron post, 30 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd.

T39S R20E
• S28|S27
S33|S34
1957

Deposit charcoal at the base of the post.

Land, broken and gently rolling desert.
Soil, sandy clay, with some exposed sandstone.
Timber, widely scattered juniper and pinion.
Undergrowth, medium sagebrush, grass and weeds.

Independent Resurvey of Portion of Subdivision, T. 39 S., R. 20 E.

Superseding the survey made by A. D. Ferron in 1884.

From the cor. of secs. 26, 27, 34 and 35.

N. 89° 56' W., bet. secs. 27 and 34.

Over rolling desert land, through widely scattered timber and medium undergrowth; asc. 95 ft. over an E. slope.

25.00

Spur, project N.; desc. 30 ft. over a gentle W. slope.

39.86

Point for the ¼ sec. cor. of secs. 27 and 34.

Set an iron post, 30 ins. long, 2½ ins. diam. 6 ins. in the ground to solid rock, and in a large mound of stone, with brass cap mkd.

T39S R20E
¼ S27
S34
1957

Deposit a sandstone, 5x3x3 ins., mkd. with a cross (X) at the base of the post.

No evidence of the Ferron corner.

42.00

Shallow draw, drains N.; asc. 135 ft. over exposed sandstone and gently rolling sandy land.

63.80

Top of ascent; thence over nearly level land.

73.00

Old Mormon road, bears S. 55° E. and N. 55° W.

79.72

The cor. of secs. 27, 28, 33 and 34.

No evidence of the Ferron corner.

Land, rolling desert.
Soil, sandy clay loam, with some exposed sandstone.
Timber, widely scattered juniper and pinion.
Undergrowth, medium sagebrush, mountain rush, grass and weeds.

Independent Resurvey of Portion of Subdivision, T. 39 S., R. 20 E.

60.08

Chains

N. 0° 02' W., bet. secs. 27 and 28.

Over gently rolling desert land, through scattered timber and medium undergrowth; asc. 25 ft. over a S. slope.

6.70

Old Mormon road, bears S. 55° E. and N. 55° W.

20.50

Sandstone rise, bears S. 30° W. and N. 30° E.; desc. 45 ft. over N. slope.

40.00

Point for the 1/4 sec. cor. of secs. 27 and 28.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 20 ins. in the ground, with brass cap mkd.

T39S R20E

1/4
S28 | S27
1957

Deposit charcoal at the base of the post.

47.10

Desc. 40 ft. into sandstone basin, 8.00 chs. across.

77.00

Wash, 30 ft. deep, 2 chs. wide, drains SE.

80.00

Point for the cor. of secs. 21, 22, 27 and 28.

Set an iron post, 30 ins long, 2 1/2 ins. diam., over a cross (X) cut in solid sandstone, and in a large mound of stone, with brass cap mkd.

T39S R20E

S21 | S22
S28 | S27
1957

Land, rolling desert.

Soil, sandy clay, with exposed sandstone.

Timber, widely scattered juniper and pinion.

Undergrowth, medium sagebrush, grass and weeds.

N. 0° 02' W., bet. secs. 21 and 22, with original survey.

Over rolling desert land, through scattered timber and medium undergrowth:

7.30

Wash, 50 lks. wide, 6 ft. deep, drains E.; asc. 65 ft. over a S. slope.

15.00

Top of rise, putting to the E.

23.40

Desc. 70 ft. into basin, 9.00 chs. wide.

26.74

Wagon road, bears SE. and NW.

40.00

Set an iron post, 30 ins. long, 2 1/2 ins. diam., over a cross (X) cut in solid sandstone, with brass cap mkd.

T38S R20E

1/4
S21 | S22
1957

Portion of the Subdivision, T. 39 S., R. 20 E.

Chains

- 48.00 Sandstone spur, projects E.; desc. 85 ft. over a N. slope.
- 60.50 Rim of ledges, 25 ft. high; desc. 140 ft. over ledges.
- 65.10 Deep draw, drains E.; asc. 155 ft. over broken sandstone, facing S.
- 69.30 Top of ledge, cont. over broken S. slope.
- 80.00 Point for the cor. of secs. 15, 16, 21 and 22.

Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) cut in solid sandstone, and in a large mound of stone, with brass cap mkd.

T39S R20E

S16 | S15

S21 | S22

1957

Land, rolling and broken desert.
Soil, sandy clay, with exposed sandstone.
Timber, scattered juniper and pinion.
Undergrowth, medium sagebrush, mountain rush, brass and weeds.

N. 0° 02' W., bet. secs. 15 and 16.

Over broken and rolling desert land, through scattered timber and medium undergrowth.

- 6.50 Spur ridge, projects E.; desc. 140 ft. over a N. slope.
- 23.70 Rim of sandstone ledges, 40 ft. high, bears E. and SW.; desc. 140 ft. over ledges, facing N.
- 27.00 Foot of ledges; thence across rolling sandy land.
- 40.00 Point for the ¼ sec. cor. of secs. 15 and 16, on a sandy spur, projecting E.

Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

T39S R20E

¼
S16 | S15

1957

Raise a mound of stone, 2½ ft. base, 2½ ft. high, W. of the post.

- 44.30 Wash, 50 lks. wide, 3 ft. deep, drains N. 75° E.; asc. 200 ft. over ledges, facing S.
- 60.10 Rim of canyon, bears E. and W.; thence over broken sandstone bedrock, slight S. slope, through scattered timber.
- 68.75 Sandstone knob, 50 ft. high, 100 ft. wide.
- 80.00 Point for the cor. of secs. 9, 10, 15 and 16.

Set an iron post, 30 ins. long, 2½ ins. diam., over a cross (X) on sandstone surface, and in a large mound of stone, with brass cap mkd.

T39S R20E

S 9 | S10

S16 | S15

1957

Chains	meters
	<p>Land, broken sandstone. Soil, sandy. Timber, scattered pinion and juniper. Undergrowth, moderate to scattered sage.</p>
	<p>N. 0° 02' W., bet. secs. 9 and 10. Over rolling to broken sandstone bedrock, through scattered timber. Asc. 50 ft. over broken S. slope.</p>
37.60	<p>Point selected for the witness $\frac{1}{4}$ sec. cor. of secs. 9 and 10. Set an iron post, 30 ins. long, 2$\frac{1}{2}$ ins. diam., over a cross (X) on sandstone surface, and in a large mound of stone, with brass cap mkd.</p> <p style="text-align: center;">T39S R20E S 9 S10 W C 1957</p>
40.00	<p>True point for the $\frac{1}{4}$ sec. cor. of secs. 9 and 10 falls on sandstone boulder where it is impractical to set the monument. Continue over broken sandstone bedrock, no ascent.</p>
64.35	<p>Wash, 30 lks. wide, 3 ft. deep, course NE.</p>
80.00	<p>Point for the cor. of secs. 3, 4, 9 and 10. Set an iron post, 30 ins. long, 2$\frac{1}{2}$ ins. diam., 10 ins. in the ground to bedrock, and in a large mound of stone, with brass cap mkd.</p> <p style="text-align: center;">T39S R20E S 4 S 3 S 9 S10 1957</p> <p>Land, broken sandstone surface and grassy flats. Soil, sandy. Timber, scattered pinion and juniper. Undergrowth, moderate to scattered sage, Brigham tea and grass.</p>
	<p>N. 0° 21' W., bet. secs. 3 and 4. Over broken sandstone bedrock, through scattered timber. Desc. 120 ft. over broken N. slope.</p>
27.35	<p>Wire fence, bears N. 70° E. and S. 70° W.</p>
32.80	<p>Wash, 100 lks. wide, 12 ft. deep, course N. 80° E.</p>
33.35	<p>Wire fence, bears N. 80° E., only.</p>
40.00	<p>Point for the $\frac{1}{4}$ sec. cor. of secs. 3 and 4. Set an iron post, 30 ins. long, 2$\frac{1}{2}$ ins. diam., over a cross (X) on sandstone surface and in a large mound of stone, with brass cap mkd.</p>

Part of the Subdivision, T. 39 S., R. 20 E.

Chains	
	<p>T39S R20E $\frac{1}{4}$ S 84 S 3 1957</p>
40.30	<p>Wash, drains NE. Desc. 20 ft. over broken N. slope.</p>
62.65	<p>Wash, 200 lks. wide, 30 ft. deep, course N. 70° E.</p>
79.68	<p>The cor. of secs. 3, 4, 33 and 34 on the N. bdy of the township. Land, broken sandstone surface and grassy flats. Soil, sandy. Timber, scattered pinion and juniper. Undergrowth, moderate sage, and grass.</p>
	<p>From the cor. of secs. 2, 3, 34 and 35 on the N. bdy. of the township. S. 0° 01' E., bet. secs. 2 and 3. Over broken sandstone bedrock, through scattered timber. Asc. 75 ft. over broken N. slope.</p>
17.50	<p>Spur, sloping S.; desc. 200 ft. over S. slope.</p>
39.79	<p>Point for the $\frac{1}{4}$ sec. cor. of secs. 2 and 3. Set an iron post, 30 ins. long, 2$\frac{1}{2}$ ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.</p>
	<p>T39S R20E $\frac{1}{4}$ S 3 S 2 1957</p>
	<p>Corner is located on top of small knoll at bottom of basin. Continue to desc. 40 ft. over broken S. slope.</p>
48.10	<p>Wash, 15 lks. wide, 2 ft. deep, course S. 80° E., approx. 10 chs.; thence SE.; asc. 45 ft. over NE. slope.</p>
58.35	<p>Three strand barbed wire fence, bears NW., 2 chs.; thence W. and SE.</p>
60.50	<p>Spur, sloping SE.; desc. 15 ft. over SW. slope.</p>
66.35	<p>Wash, 20 lks. wide, 20 ft. deep, course SE.; asc. 80 ft. over NE. slope.</p>
79.79	<p>Point for the cor. of secs. 2, 3, 10 and 11. Set an iron post, 30 ins. long, 2$\frac{1}{2}$ ins. diam., 6 ins. in the ground, and in a large mound of stone, with brass cap mkd.</p>
	<p>T39S R20E S 3 S 2 S10 S11 1957</p>
	<p>Land, broken. Soil, sandy, with exposed sandstone surface. Timber, moderate pinion and juniper. Undergrowth, moderate sage, bitter brush, Brigham tea and grass.</p>

Chains	<p>East, bet. secs. 2 and 11.</p> <p>Over broken land, through moderate timber.</p> <p>Asc. 15 ft. over SW. slope.</p> <p>4.80 Top of ascent on spur, sloping SE.; desc. 200 ft. over broken NE. slope.</p> <p>29.00 Wash, 50 lks. wide, 3 ft. deep, course S., approx. 8 chs.; thence SE.; asc. 85 ft. over NW. slope.</p> <p>40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 2 and 11.</p> <p>Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, $3\frac{1}{2}$ ft. base, with brass cap mkd.</p> <div style="text-align: center;"> <p>T39S R20E</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>$\frac{1}{4}$</td><td>S 2</td></tr> <tr><td></td><td>S11</td></tr> <tr><td></td><td>1957</td></tr> </table> </div> <p>Continue to asc. 40 ft. over NW. slope.</p> <p>62.20 Sandstone spur, sloping SW.; thence over rolling land.</p> <p>64.50 Head of draw, course SW.; asc. 35 ft. over W. slope.</p> <p>73.75 Spur, sloping S.; desc. 20 ft. over E. slope.</p> <p>80.00 Point for the cor. of secs. 1, 2, 11. and 12.</p> <p>Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 8 ins. in the ground to bedrock, and in a mound of stone, $3\frac{1}{2}$ ft. base to top, with brass cap mkd.</p> <div style="text-align: center;"> <p>T39S R20E</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>S 2</td><td>S 1</td></tr> <tr><td>S11</td><td>S12</td></tr> <tr><td></td><td>1957</td></tr> </table> </div> <p>Land, broken to rolling.</p> <p>Soil, sandy, rocky.</p> <p>Timber, moderate to scattered pinion and juniper.</p> <p>Undergrowth, moderate gama grass, bunch grass, sage and bitter brush.</p>	$\frac{1}{4}$	S 2		S11		1957	S 2	S 1	S11	S12		1957
$\frac{1}{4}$	S 2												
	S11												
	1957												
S 2	S 1												
S11	S12												
	1957												
	<p>N. $0^{\circ} 06'$ E., bet. secs. 1 and 2.</p> <p>Over broken to rolling land, through moderate timber.</p> <p>Asc. 100 ft. along E. slope.</p> <p>22.75 Sandstone spur, sloping E.; desc. 175 ft. over rolling N. slope.</p> <p>36.90 Wash, course E.</p> <p>39.40 Point for the witness $\frac{1}{4}$ sec. cor. of secs. 1 and 2.</p> <p>Set an iron post, 30 ins. long, $2\frac{1}{2}$ ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 3 ft. base to top, with brass cap mkd.</p>												

Portion of the Subdivision, T. 39 S., R. 20 E.

Chains

T39S R20E

S2|S1

1957

40.00 True point for the 1/4 sec. cor. of secs. 1 and 2 falls in wash, 15 lks wide, 3 ft. deep, course SE., where it is impractical to set the monument.
Asc. 75 ft. over SE. slope.

64.90 Draw, course SW.

79.79 The cor. of secs. 1, 2, 35 and 36 on the N. bdy. of the township.
Land, broken to rolling.
Soil, sandy with sandstone outcroppings.
Timber, moderate to scattered pinion and juniper.
Undergrowth, moderate grasses, sage, greasewood, and bitter brush.

Independent Resurvey of Portion of Subdivision, T. 39 S., R. 20 E.

Superseding the survey made by A. D. Ferron in 1884.
Beginning at the cor. of secs. 21, 22, 27 and 28.

Thence

West, bet. secs. 21 and 28.

Over gently rolling desert land, through widely scattered timber and medium undergrowth; asc. 85 ft. over an E. slope.

16.00 Rim of sandstone ledges, bears SE. and NW.; desc. 50 ft.

18.50 Draw, drains SE.; asc. 80 ft. over a gentle E. slope.

38.40 Top of ascent.

40.00 Point for the 1/4 sec. cor. of secs. 21 and 28.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 20 ins. in the ground and in a collar of stone, with brass cap mkd.

T39S R20E

1/4 S21
S28

1957

Deposit a sandstone, 5x3x3 ins., mkd. with a cross (X) at the base of the post.

No evidence found of the Ferron corner.

49.40 Sandstone rim, bears S. 60° E. and N. 60° W.; desc. 35 ft.

50.00 Wash, 50 lks. wide, 3 ft. deep, drains SE.

70.70 Old Mormon dirt road, bears S. 50° E. and N. 50° W.

80.00 Point for the cor. of secs. 20, 21, 28 and 29.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, with brass cap mkd.

T39S R20E

S20|S21
S29|S28

1957

Independent Resurvey of Portion of Subdivision, T. 39 S.; R. 20 E.

Chains

Deposit charcoal at the base of the post.

No evidence found of the Ferron corner.

Land, rolling desert.
 Soil, sandy clay, with some exposed sandstone.
 Timber, widely scattered juniper and pinion.
 Undergrowth, medium sagebrush, rabbit brush, mountain rush, grass and weeds.

N. 0° 03' W., bet. secs. 20 and 21.

Over gently rolling land, through widely scattered timber and medium undergrowth.

5.80 Old Mormon road, bears S. 60° E. and N. 60° W.; asc. a gentle W. slope.

26.20 Sandstone rim, 10 ft. high, bears E. and W.; desc. 95 ft. over a N. slope.

40.00 Point for the $\frac{1}{4}$ sec. cor. of secs. 20 and 21.

Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., 8 ins. in the ground to solid rock, and in a large mound of stone, with brass cap mkd.

T39S R20E

$\frac{1}{4}$
 S20|S21
 1957

Deposit a sandstone, 4x4x2 ins., mkd. with a cross (X) at the base of the post.

No evidence found of the Ferron corner.

Desc. 65 ft. over a N. slope.

59.60 Draw, drains N. 30° E.; asc. 65 ft. over a SE. slope.

63.75 Wash, drains E.

68.30 Spur, projects NE.; desc. 130 ft. over a broken N. slope.

69.00 Bottom of canyon, drains E.; asc. 30 ft. over sandstone slick rock, sloping to the S.

78.00 Wash, drains N. 80° E.

79.80 Point for the witness corner of secs. 16, 17, 20 and 21.

Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., over a cross (X) cut in solid sandstone, and in a large mound of stone, with brass cap mkd.

T39S R20E

S17|S16
 S20|S21
 W C
 1957

80.00 True point for the cor. of secs. 16, 17, 20 and 21 falls on the steep S. slope of sandstone slick rock, where the cor. cannot be perpetuated.

No evidence found of the Ferron corner.

Ind. Res. of Portion of the Subdivision, T. 39 S., R. 20 E.

Chains

Land, rolling and broken desert.
Soil, sandy clay, with exposed sandstone.
Timber, scattered juniper and pinion.
Undergrowth, medium sagebrush, grass and weeds.

Beginning at the cor. of secs. 15, 16, 21 and 22.

Thence

N. 89° 59' W., bet. secs. 16 and 21, with original survey.

21.00
39.80

Over broken desert land, through medium timber and scant undergrowth, over sandstone slick rock, sloping to the S.
Wash, drains S. 20° E.
Sandstone rim, 100 ft. high, bears N and S.; desc. 100 ft. into canyon.

40.00

Point for the 1/4 sec. cor. of secs. 16 and 21.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., over a cross (X) cut in solid sandstone, and in a large mound of stone, with brass cap mkd.

T39S R20E
1/4 S16
S21
1957

42.00

Sandstone wash in bottom of canyon, drains S.; asc. 100 ft. over ledges.

44.30

W. rim of canyon, bears N. and S.; thence over sandstone slick rock, sloping to the N.

71.60

Rim of same canyon, bears S. 80° W. and N. 80° E.; desc. 70 ft. over a broken NW. slope.

75.90

Bottom of same canyon, drains N. 80° E.; asc. along SE. slope.

80.00

True point for the cor. of secs. 16, 17, 20 and 21.

Land, broken desert.
Soil, sandstone slick rock, with a small portion sandy clay.
Timber, scattered and medium pinion and juniper.
Undergrowth, scant bitter brush, mountain rush, grass and weeds.

N. 0° 03' W., bet. secs. 16 and 17.

Over broken desert land, through scattered timber and scant undergrowth; asc. 145 ft. over sandstone ledges and slick rock, sloping S.

12.20

Enter grassy opening; asc. 30 ft.

21.00

Sand ridge, projects E.; desc. 40 ft. over a N. slope.

35.00

Draw drains N. 75° E.; asc. 45 ft. over a S. slope.

40.00

Point for the 1/4 sec. cor. of secs. 16 and 17, in a grassy opening.

Set an iron post, 30 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, with brass cap mkd.

Chains	Sund
	<p style="text-align: center;">T39S R20E S 17 S 16 1957</p>
	Deposit charcoal at the base of the post.
56.00	Spur ridge, projects E.; desc. 320 ft. over a broken N. slope.
70.80	Leave ledges, enter sandy bench, sloping to the NE.; desc. 25 ft.
80.00	Point for the cor. of secs. 8, 9, 16 and 17.
	Set an iron post, 30 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd.
	<p style="text-align: center;">T39S R20E S 8 S 9 S 17 S 16 1957</p>
	Deposit charcoal at the base of the post.
	Land, broken and rolling desert. Soil, sandy clay with sandstone ledges and boulders. Timber, scattered juniper and pinion. Undergrowth, medium sagebrush, mountain rush, grass and weeds.
	Beginning at the cor. of secs. 9, 10, 15 and 16:
	Thence
	N. 89° 58' W., bet. secs. 9 and 16.
	Over broken desert land, through medium dense timber and scant undergrowth, over a gentle SW. slope of sandstone.
9.20	Sandstone rim, bears N. and S.; desc. 215 ft. over sandstone ledges.
14.40	Base of ledgy slope; thence over rolling land.
22.80	Wash, 1.00 ch. wide, 5 ft. deep, drains S. 25° E.
35.90	Draw, drains S. 15° E.
39.98	Point for the ¼ sec. cor. of secs. 9 and 16.
	Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	<p style="text-align: center;">T39S R20E ¼ S 9 S 16 1957</p>
	Deposit charcoal at the base of the post.
42.00	Enter dense tamarisk and scattered cottonwood.
43.80	Wash in bottom of canyon, drains S. 30° E.
48.60	Same wash, drains N. 80° E.

Ind. Res. of Portion of the Subdivision, T. 39 S., R. 20 E.

Chains	
60.50	Sama wash, drains S. 25° E.; thence across sandy bench, sloping gently to the NE.
79.96	The cor. of secs. 8, 9, 16 and 17. Land, broken and rolling desert. Soil, sandy clay, with exposed sandstone. Timber, medium juniper and pinion, scattered cottonwood. Undergrowth, scattered bitter brush, sagebrush, medium tamarisk and grass.
	Beginning at the cor. of secs. 4, 5, 32 and 33 on the S. bdy. of the township, mkd. by an iron post, 2 ins. diam., conforming to the record.
	Thence N. 0° 03' W., bet. secs. 32 and 33.
	Over broken desert land, through scattered timber and scant undergrowth.
0.30	S. rim of Fork of Road Canyon, bears E. and W.; thence across canyon by triangulation.
17.50	Wash, in bottom of Fork of Road Canyon, drains NE.
36.00	N. rim of Fork of Road Canyon, bears SW. and NE 1.00 chs.; thence SE across sandstone slick rock.
40.00	Point for the $\frac{1}{4}$ sec. cor. of secs. 32 and 33. Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3 $\frac{1}{2}$ ft. base to top, with brass cap mkd. T39S R20E $\frac{1}{4}$ S32 S33 1957
	Asc. 180 ft. over sandstone slick rock.
58.20	Sandstone spur, projects E.; desc. 240 ft. over a N. sandstone slope.
80.00	Point for the cor. of secs. 28, 29, 32 and 33. Set an iron post, 30 ins. long, 2 $\frac{1}{2}$ ins. diam., over a cross (X) cut in solid sandstone, and in a mound of stone, 3 $\frac{1}{2}$ ft. base to top, with brass cap mkd. T39S R20E S29 S28 S32 S33 1957
	Land, broken desert. Soil, sandy clay, with the greater part exposed sandstone. Timber, scattered dwarf juniper and pinion. Undergrowth, scant black brush, sagebrush, mountain rush, bitter brush, grass and weeds.

Portion of the Subdivision, T. 39 S., R. 20 E.

Chains

Beginning at the cor. of secs. 5, 6, 31 and 32 on the S. bdy. of the township, mkd. by an iron post, 2 ins. diam., conforming to the record.

Thence

N. 0° 03' W., bet. secs. 31 and 32.

Over broken desert land, through medium timber and scant undergrowth desc. by triangulation, 400 ft. over a series of sandstone ledges, facing N.

26.60 Wash in bottom of Road Canyon, drains S. 10° E.; asc. 60 ft. over sandy bottom land.

40.00 Point for the ¼ sec. cor. of secs. 31 and 32.

Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

T39S R20E

S31 | S32

1957

Deposit charcoal at the base of the post.

Continue across sandy bottom land.

53.40 Wash, drains SE.; asc. 290 ft. over a ledgy S. slope.

60.40 N. rim of canyon, bears E. and W.; asc. a gentle S. slope.

80.00 Point for the cor. of secs. 29, 30, 31 and 32.

Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to solid rock, and in a mound of stone, with brass cap mkd.

T39S R20E

S30 | S29

S31 | S32

1957

Deposit a sandstone rock, 4x4x2 ins., mkd. with a cross (X) at the base of the post.

Land, broken.

Soil, sand, and exposed sandstone.

Timber, scattered juniper, pinion.

Undergrowth, scant sagebrush, bitter brush, grass and weeds.

From the cor. of secs. 28, 29, 32 and 33.

N. 89° 59' W., bet. secs. 29 and 32.

Over broken desert land, through medium timber and medium undergrowth; asc. 150 ft. over a NE. slope.

21.00 Spur, projects NE.; desc. 80 ft. over a SW slope.

29.50 Draw, drains NE.; asc. 45 ft. over a NE slope.

39.89 Point for the ¼ sec. cor. of secs. 29 and 32.

Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

Portion of the Subdivision, T. 39 S., R. 20 E.

Chains

T39S R20E

$$\frac{1}{4} \frac{S29}{S32}$$

1957

Deposit charcoal at the base of the post.

Asc. 70 ft. over a NE. slope.

51.00 Spur ridge, bears S. 80° W. and N. 80° E.; desc. 30 ft.

55.60 Draw, drains NE.; asc. 30 ft.

70.50 Spur, projects NW.; desc. 35 ft. along a gentle S. slope.

79.78 The cor. of secs. 29, 30, 31 and 32.

Land, broken and rolling desert.

Soil, sandy clay, with exposed sandstone.

Timber, medium juniper and pinion.

Undergrowth, scant sagebrush, bitter brush, grass and weeds.

GENERAL DESCRIPTION

The land in the township varies from rolling desert land in the eastern portion to the broken Mesa topped land in the west. The township is cut by numerous steep sided and box canyons. The drainage is all to the east, into Comb Wash, which drains in a southerly direction along the east boundary of the township. The soil is principally a sandy clay, with a considerable amount of exposed sandstone in the western portion. There is a scattered growth of juniper and pinion in the east portion and a dense growth of juniper and pinion on the Mesa tops in the western portion. The undergrowth is mainly sagebrush, with lesser amounts of black brush, bitter brush, mountain rush, silverleaf, wild apple, cacti, grass and weeds.

The township is accessible by a dirt road through the southwest portion of the township, known as the Old Mormon Road, from Escalante to Bluff. There are no permanent habitants in the township. A considerable amount of prospecting for fissionable minerals has been, and to some extent is still being carried on in the area.

CERTIFICATE OF CADASTRAL ENGINEER

I, Fred R. Chappell, HEREBY CERTIFY upon honor that, pursuant of special instructions bearing date of the 2nd day of April, 1957

I have surveyed the north boundary and a portion of the subdivision of T. 39 S., R. 20 E.

of the Salt Lake Meridian, in the State of Utah, which a represented in the foregoing field notes as having been executed by me and under my direction; and the said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

November 13, 1957
Salt Lake City, Utah

Fred R. Chappell
Fred R. Chappell
Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., _____, 19

The foregoing field notes of the survey of _____
executed by _____
having been critically examined and found correct, are hereby approved.

Cadastral Engineering Staff Officer.

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____, is a true copy of the original field notes.

Cadastral Engineering Staff Officer.

CERTIFICATE OF CADASTRAL ENGINEER

I, Vern E. Lane, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 2nd day of April, 1957

I have ~~surveyed~~ supervised the survey of the north boundary and a portion of the subdivision of T. 39 S., R. 20 E.

of the Salt Lake Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed ~~by me and under my supervision~~ under my supervision and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

November 13, 1957
Salt Lake City, Utah

Vern E. Lane
Vern E. Lane
Cadastral Surveyor (Chief of Party)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., JUN 17 1958, 19

The foregoing field notes of the survey of the north boundary and a portion of the subdivision of T. 39 S., R. 20 E.

executed by Fred R. Chappell, under the supervision of Vern E. Lane, having been critically examined and found correct, are hereby approved.

Earl G. Harrington
Cadastral Engineering Staff Officer

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in is a true copy of the original field notes.

Cadastral Engineering Staff Officer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE

FIELD NOTES

RECEIVED
FEDERAL BUREAU OF SURVEY
SALT LAKE CITY, UTAH

OF THE

SURVEY OF THE WEST BOUNDARY OF THE NAVAJO INDIAN RESERVATION

ALONG THE WESTERN RIM OF MONTEZUMA WASH IN

TOWNSHIPS 39 AND 40 SOUTH, RANGE 24 EAST

AND TOWNSHIP 40 SOUTH, RANGE 23 EAST

AND THE DEPENDENT RESURVEY OF THE UTAH-COLORADO

STATE LINE BETWEEN THE 15TH AND 25TH MILE POSTS

Of the SALT LAKE Meridian,

In the State of UTAH

EXECUTED BY

ROBERT C. YUNDT

CADASTRAL ENGINEER

Under special instructions dated September 14, 1940, which provided

for the surveys included under Group No. 322-Utah, bearing the approval of the

Commissioner of the General Land Office under date of September 25, 1940

and assignment instructions dated August 13, 1942.

Survey commenced September 18, 1942

Survey completed August 31, 1944

INDEX DIAGRAM.

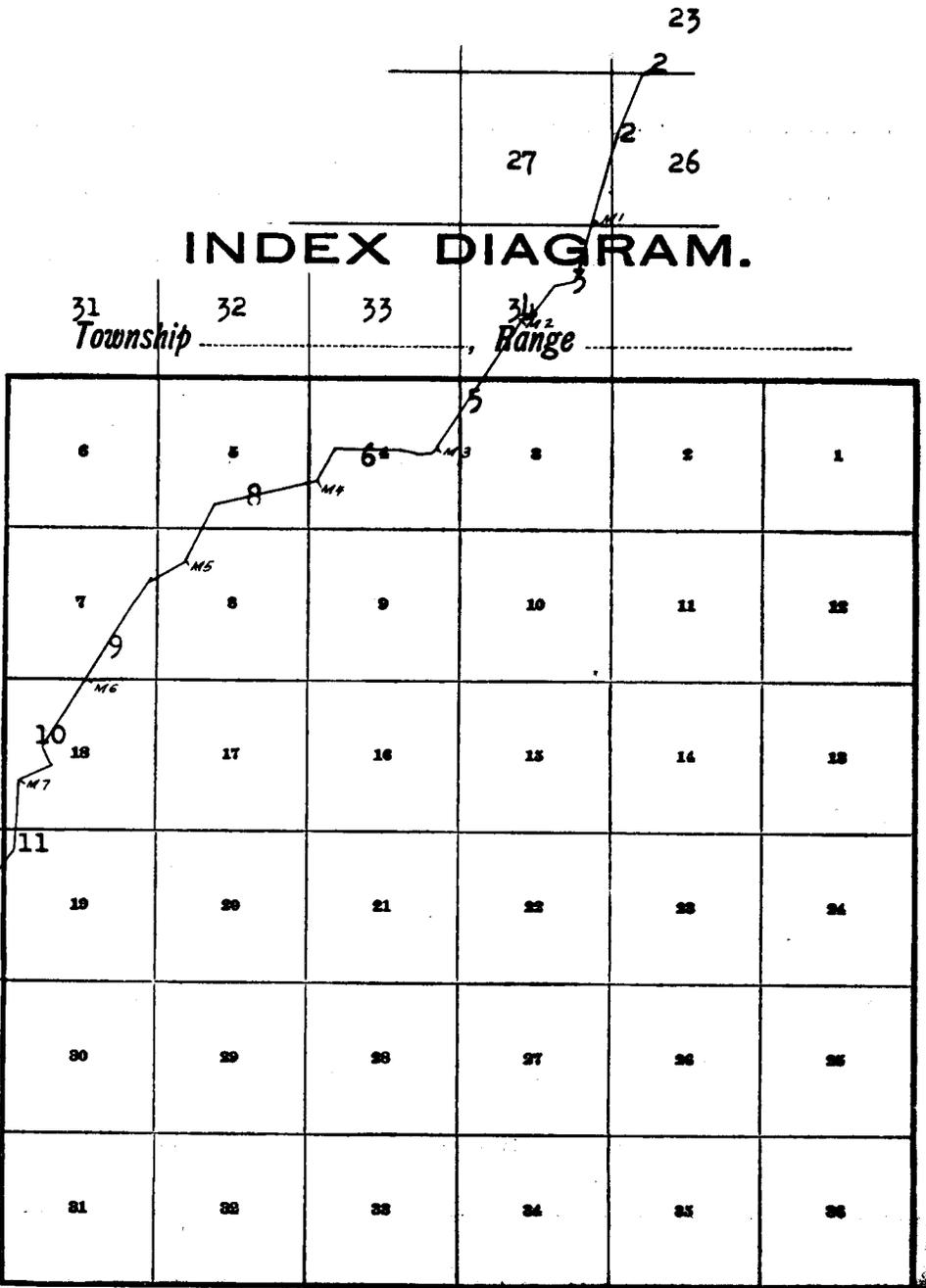
T. 39 S.

T. 40 S.

R. 23 E.

R. 24 E. c-151

UTAH - COLORADO STATE LINE



712
1717
1718

The boundaries of the northern part of the extension of the Navajo Indian Reservation, authorized by an Act of Congress approved March 1, 1933 follows, in part, along the western rim of Montezuma Wash between the old north boundary of the reservation to the section line between sections 23 and 26, T. 39 S., R. 24 E., thence eastwardly, along section lines to the closing corner of sections 27 and 34, T. 39 S., R. 26 E. on the Utah-Colorado state line (this part of the boundary was surveyed by Howard W. Miller, Cadastral Engineer, in 1933), thence southward along the state line to the old north boundary of the reservation, and the Special Instructions for this group also provide for the additional remonumentation of the state line between this point and the 15th mile post, in order to connect with recent work on that line. The west rim of Montezuma Wash is well defined in the northern part by a vertical sandstone ledge from 50 to 75 feet high. As the wash approaches the San Juan River, however, this ledge breaks off towards the west, and the boundary then follows along a lower, but still well defined, ledge to the point between the wash and the river, and thence southeasterly to the restored corner of sections 25, 30, 31, and 36, in T. 40 S., Rs. 23 and 24 E. The boundary line was carried along the main rim of the wash, and was projected across the mouths of the side canyons. The initial point on the boundary, on the section line between sections 23 and 26, T. 39 S., R. 24 E. was found to be in one of these canyons, and its location was fixed at the intersection of the section line with a line projected between the opposite points of the rim at the canyon mouth.

The survey was commenced on September 18, 1942 and was executed with Buff and Buff solar transit No. 9797. The instrument is provided with a horizontal plate having two double verniers placed opposite to each other, and a full vertical circle with one double vernier. All verniers are graduated to single minutes of arc. The instrument is equipped with an improved Smith solar attachment, but since this attachment was not used on this work, a description of it will not be given in the notes. The instrument was approved for use on this survey by the District Cadastral Engineer in Assignment Instructions dated August 13, 1942, conditional upon satisfactory field tests. The required tests were made, prior to the beginning of the field work, and the instrument found free from appreciable error.

The measurements were made with Lallie steel ribbon tapes, 8 chains in length. The tapes are graduated every link for the first chain, and thereafter at intervals of ten links. They were tested by comparison with a Lufkin standard steel tape, one chain in length, and found to be correct. The measurements were made on the slope, the vertical angles determined by the use of clinometers, and the slope distances properly reduced to the horizontal equivalents, which appear in the notes.

The geographic position of the closing corner of sections 27 and 34, T. 39 S., R. 26 E. on the Utah-Colorado state line was determined by reference to the U. S. Coast and Geodetic Survey station "Ismay" is as follows: Latitude, 37°21'36" N., longitude 109°02'42" W. The tie to this station will be found in these notes.

The bearings of the lines of the survey were determined by either Polaris or solar observations made on line during the survey, a record of which will be found in the body of the notes. The lines were carried forward as transit lines, taking the mean of direct and reversed sights, or by double deflection angles at each station.

September 18, 1942: Using watch time which carries correct 105th standard war time, verified as correct by comparison with radio signals from station KSL earlier in the morning. At the $\frac{1}{4}$ section corner of sections 23 and 26, T. 39 S., R. 24 E., at 9h 12m 06s a.m. I observe Polaris at western elongation, making four settings, two each with the telescope in direct and reversed positions, recording the time of the observation and the horizontal angle, turned clockwise, from a flag on the rim to the west on the line between sections 23 and 26 produced, to the star.

Latitude of station: 39°22' N., longitude : 109°15' W.

Chains

Azimuth of Polaris---N. $1^{\circ}16'30''$ W. ✓
 Horizontal angle $88^{\circ}31'30''$
 Bearing of line N. $89^{\circ}48'00''$ W. ✓

West Boundary of the Navajo Indian Reservation

Beginning at the $\frac{1}{4}$ section corner of sections 23 and 26, T. 39 S., R. 24 E., marked by an iron post, 1 in. in diameter, firmly set in the ground, properly marked and witnessed as described in the official record:

Thence:

N. $89^{\circ}48'$ W. on true line between sections 23 and 26.

23.57 Intersect a line projected from the opposite points of the rim of Montezuma Wash where this rim is cut by a side canyon.

Set an iron post, 3 ft. long and 3 ins. in diameter, 22 ins. into the ground to solid rock, and in a mound of stone, for the initial point of the survey of the extension of the west boundary of the Navajo Indian Reservation, with brass cap marked:

T39SR24E
S23 APO

S26 NIR
1942

Deposit a sandstone rock, 7x5x3 ins., marked with a cross (X) at the base of the post.

40.13 Point for the corner of sections 22, 23, 26, and 27, marked by a hole in the ground immediately east of a small mound of stone. This point is concordantly related to original corners to the east, west, south, and north.

Set an iron post, 3 ft. long and 2 ins. in diameter, 26 ins. in the ground to solid rock, and in a small mound of stone. for the corner of sections 22, 23, 26, and 27, with brass cap marked:

T39SR24E
S22 | S23

S27 | S26
1942

1st Mile.

Beginning at the initial point above described:

Thence:

S. $21^{\circ}30'$ W. along the reservation boundary in Section 26, across a canyon bottom.

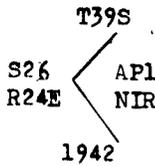
16.70 Point on the south rim of the canyon and the west rim of Montezuma Wash; sandstone ledge about 60 ft. high, bears SW. and NW.

39.40 Bend in the ledge, bearing NE. and NW.

West Boundary of the Navajo Indian Reservation.

Chains

Set an iron post, 2 ft. long and 1 in. in diameter, 20 ins. in a hole drilled into solid sandstone bedrock, for angle point No. 1, with brass cap marked:



from which,

A juniper, marked AP1BT, bears S. 73°15' W., 120 links distant. No other suitable tree available for marking.

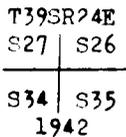
Thence:

S. 10°30' W., along the reservation boundary in section 26, across the bottom of the canyon.

11.26

Intersect the line between sections 26 and 27 at a point 32.21 chains N. 0°01' W. of the corner of sections 26, 27, 34, and 35. The corner is marked by a small hole in the center of a mound of stone, and is concordantly related to original corners to the east, west, north, and south, I remonument it as follows:

Set an iron post, 3 ft. long and 2 ins. in diameter, 22 ins. in the ground to solid rock, and in a mound of stone, for the corner of sections 26, 27, 34, and 35, with brass cap marked:



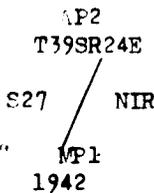
Continuing, S. 10°30' W. from the point of intersection; in section 27.

20.55

Wash, in the bottom of the canyon, drains E., ascend along a NE. slope.

40.60

Set an iron post, 3 ft. long and 3 ins. in diameter, 22 ins. in the ground to solid rock, and in a mound of stone, for mile post No. 1, with brass cap marked:



Deposit a sandstone rock, 6x5x2 ins., marked with a cross (X) at the base of the post.

Land, rolling hills, general SE. exposure and drainage. Soil, deep sand, 3rd rate. Timber, dwarf juniper. Undergrowth, sagebrush, rabbit brush, weeds, and grass. Fair grazing.

2nd Mile

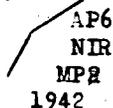
S. 10°30' W. along the 2nd mile of the Navajo Indian Reservation Boundary, in section 27.

Over rolling land, through widely scattered timber and a scant

Chains

- undergrowth, ascend along a NE. slope.
- 3.35 Intersect the line between sections 27 and 34, at a point N. $89^{\circ}47'$ W. of the corner of sections 26, 27, 34, and 35, 6.02 chains
- Continuing S. $10^{\circ}30'$ W. in section 34, in canyon bottom
- 38.55 Point on the rim of Montezuma Wash,
- Set an iron post, 3 ft. long and 1 in. in diameter, 20 ins. in the ground and in a mound of stone, for angle point No. 3, with brass cap marked:
- T39SR24E
S34 / NIR
AP3
1942
- Deposit a sandstone rock, 7x6x5 ins., marked with a cross (X) at the base of the post.
- Thence:
- S. $78^{\circ}15'$ W. along the rim in section 34.
- 15.00 Bend in rim:
- Set an iron post, 14 ins. long and 1 in. in diameter, 13 ins. in a hole drilled into solid sandstone bedrock, for angle point No. 4, with brass cap marked:
- T39SR24E
S34 / AP4
NIR
1942
- Thence:
- S. $39^{\circ}15'$ W. along the rim in section 34.
- 21.80 Bend in rim:
- Set an iron post, 14 ins. long and 1 in. in diameter, 12 ins. in a hole drilled into solid sandstone bedrock, for angle point No. 5, with brass cap marked:
- T39SR24E
S34 / AP5
NIR
1942
- Thence:
- S. $64^{\circ}00'$ W. along the rim in section 34.
- 4.65 Bend in rim: Over a cross (X) cut in solid rock:
- Set an iron post, 3 ft. long and 3 ins. in diameter, in a large mound of stone, for the 2nd mile post of the reservation boundary, with brass cap marked:

Chains

T39SR24E
S34

 AP6
NIR
MPR
1942

Land, rolling; general SE. exposure and drainage.
Soil, shallow sand, 3rd rate.
Timber, dwarf juniper and pinon.
Undergrowth, sagebrush, rabbit brush, weeds, and grass.
Fair grazing.

 3rd Mile

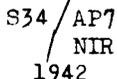
S. 38°00' W. along the West Boundary of the Navajo Indian Reservation in Section 34, along the western rim, of Montezuma Wash.

Over rolling land, through widely scattered timber and a scant undergrowth.

14.17 North rim of canyon:

Set an iron post, 3 ft. long and 1 in. in diameter, 36 ins. in the ground, for angle point No. 7, with brass cap marked:

T39SR24E


 S34 / AP7
NIR
1942

Deposit a sandstone rock, 9x7x5 ins., marked with a cross (X) at the base of the post.

Thence:

S. 34°30' W. along the boundary in section 34, leaving the rim and crossing the mouth of a canyon.

13.97 Intersect the south boundary of the township at a point 21.85 chains S. 89°58' W. of the original $\frac{1}{4}$ section corner of section 3 only, T. 40 S., R. 24 E., marked by a sandstone rock, 14x13x5 ins. firmly set in the ground, marked $\frac{1}{4}$ on the north face and witnessed by a mound of stone to the west. I remonument this point as follows: Set an iron post, 3 ft. long and 1 in. in diameter, 20 ins. in the ground to solid rock, and in a mound of stone, for the $\frac{1}{4}$ section corner of section 3 only, with brass cap marked:

 $\frac{1}{4}$ S3
1942

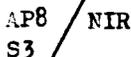
Deposit the original stone alongside the iron post.

Continuing S. 34°30' W. from the point of intersection; in section 3 T. 40 S., R. 24 E.

26.60 Wash, in the bottom of the canyon, drains SE., ascend along a NE. slope

27.07 Set an iron post, 3 ft. long and 1 in. in diameter, 30 ins. in the ground for angle point No. 8, with brass cap marked:

T40SR24E


 AP8 / NIR
S3

Chains

and 0

Continuing S. 34°30' W. along the boundary in section 4.
HASHERET

Note: In the survey of the West of the West Boundary a search was made for corners of the original public land survey in order to make the proper ties to the section lines. Since most of these corners are missing no intersections of the boundary line and the section lines can be given. All identified original corners were located by course and distance from one of the angle points of the boundary survey.

36.54

Point on the south rim of the canyon and on the rim of Montezuma Wash.
Set an iron post, 15 ins. long and 1 in. in diameter, 1 1/2 ins. in a hole drilled into solid sandstone bedrock, for angle point No. 9, with brass cap marked:

T40S
R24E / AP9
S4 / NIR

1942

Thence:

S. 45°15' W. along the rim of Montezuma Wash.

2.22

Set an iron post, 3 ft. long and 3 ins. in diameter, in a large mound of stone, over a cross (X) cut in solid sandstone bedrock, for the 3rd mile post of the West Boundary of the Navajo Indian Reservation, with brass cap marked:

T40SR24E
MP3
S4 / NIR
AP10

1942

Land, rolling, general SE. exposure and drainage.
Soil, shallow sand, 3rd rate.
Timber, dwarf juniper and pinon.
Undergrowth, sagebrush, rabbit brush, weeds, and grass.
Fair grazing.

4th Mile

S. 55°00' W. along the rim of Montezuma Wash in section 4.

Over rolling land, through widely scattered timber and scant undergrowth.

4.50

Bend in rim:

Set an iron post, 3 ft. long and 1 in. in diameter, 12 ins. in the ground to solid rock, and in a mound of stone, for the angle point No. 11 with brass cap marked:

T40SR24E
S4 / NIR
AP11

1942

Deposit a sandstone rock, 6x4x4 ins., marked with a cross (X) at the base of the post.

Thence:

R13 / S8

85

West Boundary of the Navajo-Indian Reservation

Chains

N. 88°00' W. along the rim of Montezuma Wash in section 4.

6.70

Bend in the rim:

Set an iron post, 3 ft. long and 1 in. in diameter, 5 ins. in the ground to solid rock, and in a large mound of stone, for angle point No 12, with brass cap marked:

T40SR24E

S4

AP12

NIR

1942

Deposit a sandstone rock, 7x6x5 ins., marked with a cross (X) at the base of the post.

Thence:

N. 63°30' W. along the rim of Montezuma Wash in section 4

9.50

Bend in the rim:

Set an iron post, 18 ins. long and 1 in. in diameter, 14 ins. in a hole drilled into solid rock, for angle point No. 13, with brass cap marked:

T40SR24E

S4

AP13

NIR

1942

Thence:

N. 86°45' W. along the rim of Montezuma Wash in section 4.

35.70

Bend in the rim:

Set an iron post, 3 ft. long and 1 in. in diameter, 14 ins. in a hole drilled into solid rock, and in a mound of stone, for angle point No. 14, with brass cap marked:

T40SR24E

S4

AP14

NIR

1942

Thence:

S. 35°30' W. along the rim of Montezuma Wash in section 4.

15.00

Bend in the rim:

Set an iron post, 36 ins. long and 1 in. in diameter, 10 ins. in a hole drilled into solid rock, and in a large mound of stone, for angle point No. 15, with brass cap marked:

T40S

R24E

S4

NIR

AP15

1942

Thence:

S. 70°30' W. along the rim of Montezuma Wash in section 4.

Chaind

8.60

Bend in the rim: Over a cross (X) cut in solid rock:

Set an iron post, 3 ft. long and 3 ins. in diameter, in a large mound of stone, for mile post No. 4 of the Navajo Indian Reservation Boundary, with brass cap marked:

T4OSR24E

S5

AP16

NIR

MP4

1942

Land, rolling hills, general SE. exposure and drainage.
Soil, shallow sand, 3rd rate.
Timber, dwarf juniper and pinon.
Undergrowth, sagebrush, rabbit brush, weeds, and grass.
Fair grazing.

5th Mile

S. 67°00' W. along the rim of Montezuma Wash in section 5.

27.30

Cut a cross (X) in the top of the ledge and erect a large mound of stone above the cross,

Continue same line with continuous measurement; along rim of wash.

51.40

Bend in the rim:

Set an iron post, 3 ft. long and 1 in. in diameter, 20 ins. in the ground to solid rock, and in a mound of stone, for angle point No. 17, with brass cap marked

T4OSR24E

S5

AP17

NIR

1942

Deposit a sandstone rock, 5x5x5 ins., marked with a cross (X) at the base of the post.

Thence:

S. 29°45' W., along the rim of Montezuma Wash, in section 5.

27.90

Bend in the rim:

Set an iron post, 3 ft. long and 1 in. in diameter, 10 ins. in a hole drilled into solid rock, and in a mound of stone, for angle point No. 18, with brass cap marked:

T4OSR24E

S8

AP18

NIR

1942

Thence:

S. 64°15' W., along the rim of Montezuma Wash, in section 8.

0.70

Over a cross (X) cut into solid sandstone bedrock:

West Boundary of the Navajo Indian Reservation

Chains

Set an iron post, 3 ft. long and 3 ins. in diameter, in a large mound of stone, for mile post No. 5 of the Navajo Indian Reservation Boundary, with brass cap marked:

T4OSR24E
S8
AP19
NIR
MP5
1942

Land, rolling hills, general SE. exposure and drainage.
Soil, shallow sand, 3rd rate.
Timber, dwarf juniper and piñon.
Undergrowth; sagebrush, rabbit brush, weeds, and grass.
Fair grazing.

6th Mile

S. 64°15' W. along the rim of Montezuma Wash; in section 8.

Over rolling land, through widely scattered timber and a scant undergrowth.

15.40

Bend in the rim:

Set an iron post, 3 ft. long and 1 in. in diameter, 20 ins. in the ground to solid rock, and in a mound of stone, for angle point No. 20 with brass cap marked:

T4OSR24E
S8
AP20
NIR
1942

Deposit a sandstone rock, 4x4x3 ins., marked with a cross (X) at the base of the post.

Thence:

S. 38°45' W. along the rim of Montezuma Wash, in section 8.

13.80

Point of rim between Montezuma and side washes:

Set an iron post, 3 ft. long and 1 in. in diameter, 14 ins. in the ground to solid rock, and in a mound of stone, for angle point No. 21, with brass cap marked:

T4OSR24E
S7
AP21
NIR
1942

Thence:

S. 30°30' W. across bottom of side canyon.

48.30

Wash, in the bottom of canyon, drains E.

50.80

On a SE. slope, over a cross (X) cut into solid rock:

Set an iron post, 3 ft. long and 3 ins. in diameter, in a large mound of stone, for mile post No. 6 of the Navajo Indian Reservation boundary, with brass cap marked:

Chains

21125

T40S
R24E
S18 / AP22
NIR
MP6
1942

From this point the original corner of sections 7, 8, 17, and 18, T. 40 S., R. 24 E., marked by a badly weathered sandstone rock, 18x16x16 ins. above ground, firmly set in the ground and a mound of stone, no marks visible, bears 28.48 chains S. 80°50' E.

Land, rolling hills, general SE. exposure and drainage.
Soil, shallow sand on the ledge and deep sand in the bottoms, 3rd rate
Timber, dwarf juniper and pinon.
Undergrowth, sagebrush, shadscale, rabbit brush, weeds and grass.
Fair grazing.

7th Mile

S. 30°30' W. along the reservation boundary in section 7, across the canyon bottom:

Over rolling land, through widely scattered timber and a medium dense undergrowth.

27.40 Point of the rim of Montezuma Wash and the south rim of a side canyon continue along rim of Wash.

40.20 Bend in rim:

Set an iron post, 3 ft. long and 1 in. in diameter, 14 ins. in the ground to solid rock, and in a mound of stone, for angle point No. 23, with brass cap marked:

T40S
R24E
S18 / AP23
NIR
1942

Deposit a sandstone, 5x5x5 ins., marked with a cross (X) at the base of the post.

Thence:

S. 9°45' E. along the rim of Montezuma Wash, in section 18.

14.50 Bend in the rim:

Set an iron post, 3 ft. long and 1 in. in diameter, 16 ins. in the ground to solid rock, and in a mound of stone, for angle point No. 24, with brass cap marked:

T40S
R24E
S18 / AP24
NIR
1942

Deposit a sandstone rock, 7x6x5 ins., marked with a cross (X) at the base of the post.

Thence:

S. 69°30' W. along the rim of Montezuma Wash, in section 18.

Chains

13.80

Bend in the rim:

Set an iron post, 3 ft. long and 1 in. in diameter, 15 ins. in the ground to solid rock, and in a mound of stone, for angle point No. 25 with brass cap marked:

T4OSR24E
S18 /
AP25
NIR
1942

Deposit a sandstone rock, 5x5x3 ins., marked with a cross (X) at the base of the post.

Thence:

S. 58°15' W. along the rim of Montezuma Wash, in section 18.

5.90

Bend in the rim:

Set an iron post, 3 ft. long and 1 in. in diameter, 20 ins. in the ground to solid rock, and in a mound of stone, for angle point No. 26, with brass cap marked:

T4OSR24E
S18 /
AP26
NIR
1942

Deposit a sandstone rock, 10x6x4 ins., marked with a cross (X) at the base of the post.

Thence:

S. 3°15' W. along the rim of Montezuma Wash in section 18.

5.60

On the rim:

Set an iron post, 3 ft. long and 3 ins. in diameter, 18 ins. in the ground to solid rock, and in a mound of stone, for mile post No. 7 of the Reservation boundary, with brass cap marked:

T4OSR24E
S18 / AP27
NIR
MP7
1942

Deposit a sandstone rock, 7x6x4 ins., marked with a cross (X) at the base of the post.

Land, rolling hills, general SE. exposure and drainage.
Soil, deep sand, 3rd rate.
Timber, dwarf juniper and pinon.
Undergrowth, sagebrush, shadscale, rabbit brush, weeds, and grass.
Fair grazing.

8th Mile

S. 3°15' W. along the rim of Montezuma Wash, in section 18.

Over rolling land, through widely scattered timber and a scant undergrowth.

Chains

29.90

Point on the rim of Montezuma Wash on the northern edge of a side canyon:

Set an iron post, 3 ft. long and 1 in. in diameter, 18 ins. in the ground to solid rock, and in a large mound of stone, for angle point No. 28, with brass cap marked:

T40SR24E
S19 / AP28
NIR
1942

Deposit a sandstone rock, 4x4x3 ins., marked with a cross (X) at the base of the post.

Thence:

S. 29°00' W. across the bottom of a side canyon.

18.30

Wash in the canyon bottom, drains SE.

40.20

Point on the rim of Montezuma Wash on the southern side of the side canyon; and on the northern side of a small canyon to the south.

Set an iron post, 3 ft. long and 1 in. in diameter, 8 ins. in the ground to solid rock, and in a large mound of stone, for angle point No. 29, with brass cap marked:

T40SR23E
S24 / AP29
NIR
1942

Deposit a sandstone rock, 7x6x5 ins., marked with a cross (X) at the base of the post.

Thence:

S. 15°30' W. across canyon.

9.90

On a SE. slope:

Set an iron post, 3 ft. long and 3 ins. in diameter, 24 ins. in the ground to solid rock, and in a mound of stone, for the mile post No. 8, with brass cap marked:

T40SR23E
S24 / MP8
NIR
AP30
1942

Deposit a sandstone, 7x6x6 ins., marked with a cross (X) at the base of the post.

Land, rolling hills, general SE. exposure and drainage.
Soil, deep sand, 3rd rate.
Timber, widely scattered dwarf juniper and piñon.
Undergrowth; shadscale, sagebrush, rabbit brush, weeds, and grass.
Fair grazing.

Chains

9th Mile

S.15°30' W., across canyon bottom, in section 24, on the 9th Mile.

16.40 Wash in the canyon, drains SE.

60.00 Point on the rim of Montezuman Wash and the southern rim of the side canyon, continue same line along the rim.

70.00 Point on the rim of Montezuma Wash and the rim of the San Juan River:

Over a cross (X) cut into solid surface rock:

Set an iron post, 3 ft. long and 1 in. in diameter, in a large mound of stone, for angle point No. 31, with brass cap marked:



Thence:

S. 41°48' E. for signal at the corner of sections 25, 30, 31, and 36, Ts. 40 S., Rs. 23 and 24 E. following closely along the spur between the San Juan River and Montezuma Wash.

10.00 Over a cross (X) cut into solid surface rock:

Set an iron post, 3 ft. long and 3 ins. in diameter, in a large mound of stone, for the 9th mile post of the Reservation Boundary, with brass cap marked:



Land, rolling, general SE. exposure and drainage. Soil, shallow sand, 3rd rate. Timber, widely scattered dwarf juniper and pinon. Undergrowth, shadscale, sagebrush, bitter brush, weeds, and grass. Fair grazing.

10th Mile

S. 41°48' E. along the Reservation boundary in section 25.

Over rolling land, through widely scattered timber and a scant undergrowth.

39.03 Intersect the corner of sections 25, 30, 31, and 36, T. 40 S., Rs. 23 and 24 E., hereinafter described. This point is on the old northern boundary of the Reservation and the terminus of the new west boundary.

Land, low rolling hills, general SE. exposure and drainage. Soil, deep sand, 3rd rate. Timber, widely scattered dwarf juniper and pinon. Undergrowth, shadscale, sagebrush, bitter brush, weeds, and grass. Fair grazing.

Chains.

The original corner of sections 19, 24, 25, and 30, T. 40 S., Rs. 23 and 24 E. is marked by a sandstone rock, 18x8x6 ins., firmly set in the ground, and marked with 4 grooves on the north and 2 on the south edges, not witnessed:

Thence: On retracement:

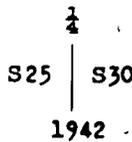
S. 0°02' W. on true line between sections 25 and 30.

39.87

The $\frac{1}{4}$ section corner of sections 25 and 30, marked by a sandstone rock, 16x16x10 ins., firmly set in the ground and a mound of stone, and plainly marked " $\frac{1}{4}$ " on the west face:

At the corner point:

Set an iron post, 3 ft. long and 1 in. in diameter, 18 ins. in a hole drilled into solid rock, and in a mound of stone, for the $\frac{1}{4}$ section corner of sections 25 and 30, with brass cap marked:



Deposit the original stone alongside the iron post.

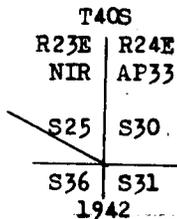
Thence:

South, on retracement, with continuous measurement.

79.87

No trace of the original section corner can be found, and since no trace of the original meander corner of sections 31 and 36, reported as 3.45 chains south of this point could be found, therefore:

Set an iron post, 3 ft. long and 3 ins. in diameter, 34 ins. in the ground, for the restored corner of sections 25, 30, 31, and 36, T. 40 S., Rs. 23 and 24 E., and the terminus of the survey of the west boundary of the reservation, with brass cap marked:



Deposit a river washed cobble stone, 7x5x5 ins., marked with a cross (X) at the base of the post.

Dependent Resurvey of the Utah-Colorado State Line

Reestablishment of the Survey executed by Allen D. Wilson in 1885.

Beginning at the 25 Mile Post of the Utah-Colorado state line, established by Allen D. Wilson, U. S. Surveyor in 1885, marked by a sandstone rock, 24x8x2 ins., set in a mound of stone, and marked C on the east face and U25M1885 on the west face, and at which point:

Set an iron post, 3 ft. long and 3 ins. in diameter, 8 ins. in a hole drilled into solid sandstone, and in a large mound of stone, for the 25th mile post, with brass cap marked:

Dependent Resurvey of the Utah-Colorado State Line

Chains

UT COL
T39S
R26E
S27
25 M
1942

from which

A juniper, 3 ins. in diameter, marked 25MBT, bears N. 86°15' E., 109 links distant.

U. S. Coast and Geodetic Survey station Ismay, a brass tablet set in sandstone bedrock, bears 4.50 chains S. 65°12' E.

The Reeve's 24 mile post, a sandstone rock, 18x12x 2 ins., lying on an old mound, and marked COL on one face and 24MU on the opposite, bears 15.68 chains S. 0°25' W. I add the letters WP to the marks.

October 8, 1942: Using my watch which carries correct 105th standard war time, verified by comparison with radio signals from station KSL earlier in the morning, at the 25th mile post; above described, at 7h 52m 36s a.m. I observe Polaris at western elongation, making four settings, two each with the telescope in direct and reversed positions recording the time of the observation and the horizontal angle turned clockwise from my line point to the southward to the star:

Azimuth of Polaris N. 1°16'15" W
Horizontal angle 178°29'45"
Bearing of line----- S. 0°14'00" W

Thence:

S. 0°14' W. on a dependent resurvey of the 25th mile of the state line.

Over rolling mountain top, through scattering timber and a scant undergrowth. along a general W. slope.

- 2.62 The closing corner of sections 27 and 34, T. 39 S., R. 26 E., Salt Lake Meridian, Utah, an iron post; 2 ins. in diameter, firmly set in a hole drilled into sandstone bedrock, properly marked as described in the official record. From this corner a wire fence bears west and south. That part to the south follows along to the west of line for about a half mile and then bears off to the south east. There are many gaps in the fence along the ledges, the latter serving as a barrier.
- 18.90 Sandstone rim about 20 ft. high, bears SE. and W., descend along a SW. slope.
- 29.30 Draw, drains W., ascend along a NW. slope.
- 42.00 Point of rim bearing NE. and SE. on top of a spur projecting W., descend along a SW. slope.
- 55.90 Draw, drains W., ascend along a NW. slope.
- 63.50 Sandstone rim, bears NE. and SW., continue over mesa top, ascending along a general N. slope.
- 79.04 Proportionate distance: No trace of the original 24th mile post of the Wilson survey can be found.

Set an iron post, 18 ins. long and 1 in. in diameter, 16 ins. in a hole drilled into solid sandstone bedrock, for the restored 24th Mile post, with brass cap marked:

UT COL
T39S
R24E
S34
NIR
24 M
1942

Chains

Land, rolling, general SW. exposure and drainage.
 Soil, deep sand, 2nd rate.
 Timber, dwarf juniper.
 Undergrowth, sagebrush, shadscale, rabbit brush, weeds, and grass.
 Fair grazing.

S. 0°14' W. on a dependent resurvey of the 24th mile of the state line

Over rolling land, through scattering timber and a scant undergrowth, ascend along a gentle N. slope on the top of a mesa.

15.43 Fall 19 links east of the Reeve's 23rd mile post, a sandstone rock, 17x9x4 ins., marked COL on one face, 23MUT on the opposite, lying on a small mound of earth and stone. Reset stone 10 ins. in the ground, adding the letters WF to the marks.

16.40 Top of ascent on the mesa, bears NE. and W., descend along a S. slope.

24.00 Rim of mesa, bears E. and SW., descend along a SE. slope.

40.20 Draw, drains SE., ascend along a NE. slope.

55.60 Top of small isolated butte about 2 chains long NE. and SW. and 1 chain wide, line crosses about 50 links east of the western edge: Descend along a SW. slope.

79.04 The Wilson 23rd mile post, a sandstone rock, 28x12x8 ins., lying on an old mound of earth and stone, and marked U23M on one face, C on the opposite, and 1885 on an adjoining face. At the same point:

Set an iron post, 3 ft. long and 3 ins. in diameter, 24 ins. in the ground to solid rock, and in a mound of stone, for the 23rd mile post, with brass cap marked:

23 M
 T40S
 UT R26E COL
 S 3
 NIR
 1942

Deposit the original stone alongside the iron post.

Land, rolling hills, general SW. exposure and drainage.
 Soil, sandy clay, 3rd rate.
 Timber, dwarf juniper.
 Undergrowth, sagebrush, shadscale, rabbit brush, weeds, and grass
 Fair grazing.

S. 0°01' W. on a dependent resurvey of the 23rd mile of the state line

Over gently rolling land, through scattering timber and a scant undergrowth, descend along a SW. slope.

9.80 Edge of bank of creek, bears NE. and SW., about 40 ft. high, descend along a S. slope in the creek bed.

15.20 No trace of the Reeve's 22nd mile post can be found.

18.00 Road bears NE. and W. Immy's trading post to Blanding, Utah.

Chains

25.80 Yellow Jacket Wash, drains SW about 2 chains to junction with McElmo Creek, stream of water about 10 ft. wide and 6 ins. deep in bottom.

34.60 McElmo Creek, stream of clear water, 20 links wide and 7 ins. deep, flows N. 10°W. about 4 chains and then W. and SW., ascend along a NE. slope.

44.60 South bank of McElmo Creek, bears NW. and SE. ascend along a NE. slope.

64.60 Top of rise, bears E. and W. continue along a general W. slope.

79.55 The Wilson 22nd mile post, a sandstone rock, 27x15x3 ins., lying on an old mound of earth and stone, and marked UT22M on one face, and COL on the opposite: At the same point:

Set an iron post, 3 ft. long and 3 ins. in diameter, 34 ins. in the ground, for the 22nd mile post, with brass cap marked:

22 M

UT
T40S
R26E COL
S10
NIR

1942

Deposit the original stone alongside the iron post.

Land, rolling, general SW. exposure and drainage.

Soil, deep sandy clay, 2nd rate.

Timber, dwarf juniper.

Undergrowth, sagebrush, shadscale, rabbit brush, weeds, and grass.

Fair grazing.

S. 0°14' W. on a dependent resurvey of the 22nd mile of the state line.

Over gently rolling land, through widely scattered timber and a medium dense undergrowth, along a general W. slope.

12.90 Wire fence, bears E. and W.

15.50 Fall 38 links east of the Reeve's 21st mile post, a sandstone rock, 16x12x7 ins., firmly set in the ground, and marked U2 on the west face. Stone covered with moss and most of the marks are not decipherable. I add the letters WP to the marking.

36.00 Draw, drains W. (Flodine Creek)

65.80 Draw, drains NW.

80.08 The Wilson 21st mile post, marked by a sandstone rock, 18x16x10 ins., with no marks decipherable, firmly set in an old mound of earth and stone: At the same point:

Set an iron post, 3 ft. long and 3 ins. in diameter, 12 ins. in the ground to solid rock, and in a large mound of stone, for the 21st mile post, with brass cap marked:

21M

UT
T40S
R26E COL
S15
NIR

1942

Chains

Deposit the original stone alongside the iron post. The closing corner of sections 19 and 22, T. 40 S., R. 26 E., Salt Lake Meridian, Utah, marked by a sandstone rock, 20x18x8 ins. firmly set in the ground and in a mound of stone, and marked CC on the west face, bears 4.92 chains S. 0°43' E.

Land, rolling bench, drainage and exposure, SW.
Soil, sandy clay, 2nd rate.
Timber, few widely scattered juniper.
Undergrowth, sagebrush, shadscale, rabbit brush, weeds, and grass.
Fair grazing.

S. 0°22' E. on a dependent resurvey of the 21st mile of the state line.

Over rolling mountainous land, through widely scattered timber and a medium dense undergrowth, ascend 300 ft. along a NW. slope to the bench.

3.70 Trail, bears NE. and SW.

4.92 Fall 4 links west of the closing corner of sections 15 and 22, T. 40 S., R. 26 E., Salt Lake Meridian, Utah.

14.00 No trace of the Reeve's 21st mile post can be found.

42.80 Sandstone ledge about 20 ft. high and rim of bench, bears N. 10° E. and S. 70° W.: The north end of a north-south fence of barbed wire bears east 28 links distant. Continue over top of bench.

54.00 Low, flat spur, projects SW., descend along a gentle SE. slope.

78.80 The Wilson 20th mile post, a sandstone, 26x12x4 ins., badly weathered, set in a small mound of stone, with faint chisel marks on two sides. At the same point:

Set an iron post, 3 ft. long and 3 ins. in diameter, 6 ins. in a hole drilled into solid sandstone rock, and in a large mound of stone, for the 20th mile post, with brass cap marked:

20 M
T40S
UT R26E COL
S22
1944

Deposit the original stone alongside the iron post. The post is located on the east side of a wire fence line.

Land, rolling hills, drainage, SW.
Soil, deep sand, 3rd rate.
Timber, dwarf juniper.
Undergrowth, sagebrush, shadscale, rabbit brush, weeds, and grass.
Fair grazing.

S. 0°27' E. on a dependent resurvey of the 20th mile of the state line.

Over rolling land, through widely scattered timber and a medium dense undergrowth, descend along a SE. slope on the east side of the fence.

Chains

- .90 Rim of bench, bears E. and W.
- 3.15 Sandstone ledge about 20 ft. high, bears E. and W., end of fence bears west, about 125 ft. along a SE slope.
- 13.80 No trace of the Reeve's 20th mile post can be found.
- 38.20 Draw, drains W., ascend 135 ft. along a NW. slope.
- 68.70 Sandstone ledge about 20 ft. high and rim of bench, bears E. and S. 15° W., continue along the west slope of the bench.

79.98 The Wilson 19th mile post, a sandstone rock, 24x16x5 ins., firmly set in the ground, and marked U19M on the west face, no other marks

At the same point:
Set an iron post, 3 ft. long and 3 ins. in diameter, 27 ins. in the ground, and in a mound of stone, for the 19th mile post of the state line, with brass cap marked:

19 M
T40S
UT R26E CCL
S27
1944

Deposit the original stone at the base of the iron post.

Land, rolling bench; drainage, W.
Soil, deep sand, 3rd rate.
Timber, dwarf juniper and pinon.
Undergrowth, sagebrush, shadscale, rabbit brush, weeds, and grass.
Fair grazing.

S. 0°22' E. on a dependent resurvey of the 19th mile of the state line

Over rolling land, through scattering timber and a medium dense undergrowth

- 3.00 Sandstone ledge about 30 ft. high and rim of bench, bears SE. and N. 15° W., descend 250 ft. along a SE. slope.
- 18.50 Draw, drains W., ascend 255 ft. along a NW. slope.
- 25.00 Sandstone ledge about 40 ft. high and rim of bench, bears NE. and SW., continue along rolling top of bench.
- 34.50 Trail, bears NE. and SW., descend along a gentle SE. slope.
- 79.68 The Wilson 18th mile post, a sandstone rock, 18x15x5 ins., firmly set in the ground, and marked U18M on the west and C on the east sides

At the same point:
Set an iron post, 3 ft. long and 3 ins. in diameter, 27 ins. in the ground, and in a mound of stone, for the 18th mile post of the state line, with brass cap marked:

18 M
T40S
UT R26E CCL
S34
1944

Deposit the original stone alongside the iron post.

Chains

Land, rolling bench; drainage, SW.
 Soil, deep sandy clay, 3rd rate.
 Timber, dwarf juniper.
 Undergrowth, sagebrush, shadscale, greasewood, weeds, and grass.
 Fair grazing.

S. 0°12' W. on a dependent resurvey of the 18th mile of the state line
 Over rolling land, through scattering timber and a medium dense undergrowth, descend along a SE. slope.

- 12.50 Sandstone ledge about 20 ft. high and rim of bench, bears NE. and SW., descend 225 ft. along a SE. slope.
- 14.50 No trace of the Reeve's 18th mile post can be found.
- 41.20 Wash, 20 links wide and 5 ft. deep, drains S. 60° W.
- 47.50 Low sand hill, projects W.
- 57.40 Wash, 1.50 chains wide and 5 ft. deep, drains W., ascend 25 ft. along a NW. slope.

79.92 The Wilson 17th mile post, a sandstone, 24x9x5 ins., firmly set in the ground, and marked U17M on the west, C on the east, and 1885 on the south faces. At the same point.

Set an iron post, 3 ft. long and 3 ins. in diameter, 27 ins. in the ground, and in a mound of stone, for the 17th mile post, with brass cap marked:

17 M
 T41S
 UT R26E COL
 S3
 1944

Deposit the original stone alongside the iron post.

Land, rolling bottom land; drainage, SW.
 Soil, heavy clay loam, 3rd rate.
 Timber, dwarf juniper.
 Undergrowth, sagebrush, greasewood, shadscale, weeds, and grass.
 Poor grazing.

S. 0°24' E. on a dependent resurvey of the 17th mile of the state line

Over rolling land, through widely scattered timber and a scant undergrowth; ascend 95 ft. along a broken NW. slope.

- 14.60 Fall 9 links east of the Reeve's 17th mile post, a sandstone rock, 18x10x5 ins., set in a mound of stone, and marked U17M on the west, and COL on the east faces. Add WP to the markings.
- 21.60 Spur, projects SW., continue along an E. slope.
- 31.10 Recross spur, projects SE., descend 85 ft. along a rocky S. slope.

Dependent Resurvey of the Utah-Colerado State Line

Chains

approx 1000 yds

Descend 135 ft. over a S. slope.

45.10 Road, bears E. and W.

49.80 Wash, 150 links wide and 4 ft. deep, drains W., ascend 45 ft. along NW. slope.

58.10 Low spur, projects W., descend 35 ft. along a SW. slope.

63.70 Shallow wash, drains NW., ascend 20 ft. along a NE. slope.

80.19 The Wilson 16th mile post, a sandstone rock, 20x12x5 ins., set in a mound of stone, and marked U16M on the west, C on the east, and 1885 on the south. At the same point:

Set an iron post, 3 ft. long and 3 ins. in diameter, 14 ins. in the ground to solid rock, and in a mound of stone, for the 16th mile post, with brass cap marked:

16 M
T41S
UT R26E COL
S10
1944

Deposit the original stone alongside the iron post.

Land, rolling; drainage, W.
Soil, heavy clay loam, 3rd rate.
Timber, dwarf juniper.
Undergrowth, greasewood, shadscale, sagebrush, weeds, and grass.
Poor grazing.

S. 0°18' E. on a dependent resurvey of the 16th mile of the state line

Over rolling land, through scattering timber and a medium dense undergrowth, ascend 150 ft. along a NE. slope.

13.86 Point on a sandstone ledge about 35 ft. high bearing NW. and SE., Fall 3 links west of the Reeves 16th mile post, a sandstone rock, 16x12x3 ins. set in a mound of stone, and marked 16MU on the west, and COL on the east faces: I add the letters WP to the markings.

33.70 Spur, projects NW. descend along a SW. slope.

38.30 Wood road, bears NW. and SE.

41.50 Sandstone ledge about 15 ft. high and rim of bench, bears NW. and SE., descend 105 ft. along a SW. slope.

55.00 Draw, drains W. ascend 90 ft. along a NW. slope.

62.00 Rim of bench, bears E. and W., continue over rolling top.

79.61 The Wilson 15th mile post, remonumented in 1914 with an iron post, 3 ins. in diameter, firmly set properly marked and witnessed as described in the official record.

Land, rolling; drainage, W.
Soil, deep sand, 3rd rate.
Timber, dwarf juniper.
Undergrowth, sagebrush, shadscale, greasewood, weeds, and grass.
Fair grazing.

erick

The land covered by the survey is a rolling bench cut by many canyons draining southward into the San Juan River. There are two large canyons, Montezuma Wash, in the west, is a broad, open valley with sloping sides, and in the bottom may be found a few seeps of alkaline water. There is no running water in this wash for the greater part of the year. In the east, along the state line, is McElmo Creek, this is in a much narrower canyon, and has a small stream of very alkaline water throughout the year.

The soil is poor in character. In the lower parts it consists of a deep, heavy clay loam. On the tops of the benches the soil is a deep sandy clay, giving way in many places to a straight sand. Throughout the entire area the soil will be classed as third and fourth rates.

On the benches is found a scattering growth of dwarf juniper and pinon. These trees are small and gnarled, and of little value except for fire wood. The undergrowth is mainly shade-scale, sagebrush, and greasewood with patches of rabbit brush, native grasses, and weeds.

The land is mainly suited for grazing, but along the bottoms of Montezuma Wash and McElmo Creek are many, scattered Indian settlements. Most of these have small cultivated patches nearby.

FIELD ASSISTANTS

NAMES	CAPACITY
Harold S. Heyler	Principal Assistant
Rivers Y. Gray	Chairman
Kenneth Pederson	Chairman
Jack Drake	Chairman
Richard L. Beck	Cornerman
John Coats	Cornerman
Kenneth W. Parkinson	Cornerman
Kenneth W. Torp	Axeman
Elo M. Golden	Axeman

I, Robert C. Yundt, HEREBY CERTIFY upon honor that, pursuant of special instructions bearing date of the 14th day of September, 1940, received from the district cadastral engineer for Utah, with assignment instructions dated August 13, 1942, I have surveyed the west boundary of the Navajo Indian Reservation between the old north boundary of the reservation and the line between sections 23 and 26 in T. 39 S., R. 24 E., S. L. Meridian, Utah, and have dependently resurveyed the Utah-Colorado state line between the 15th and 25th mile posts. of the _____ Meridian, in the State of _____, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Salt Lake City, Utah, September 30, 1944

Robert C. Yundt
Robert C. Yundt
Associate Cadastral Engineer

CERTIFICATE OF APPROVAL

OFFICE OF ~~U.S.~~ SUPERVISOR OF SURVEYS,

Denver, Colorado, June 19, 1946.

The foregoing field notes of the survey of west boundary of the Navajo Indian Reservation between the old north boundary of the reservation and the section line between sections 23 and 26 in T. 39 S., R. 24 E., Salt Lake Meridian, Utah, and the dependant resurvey of the Utah-Colorado state line between the 15th and 25th mile posts executed by Robert C. Yundt, under special instructions dated September 14, 1940, and assignment instructions dated August 13, 1942, having been critically examined, and the necessary corrections made prior to their certification by the engineer, the said field notes, and the survey therein described, are hereby approved.

[Signature]
U.S. Supervisor of Surveys.

~~CERTIFICATE OF TRANSCRIPT~~

~~I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in _____, is a true copy of the original field notes on file in the public survey office.~~

~~U.S. Supervisor of Surveys.~~