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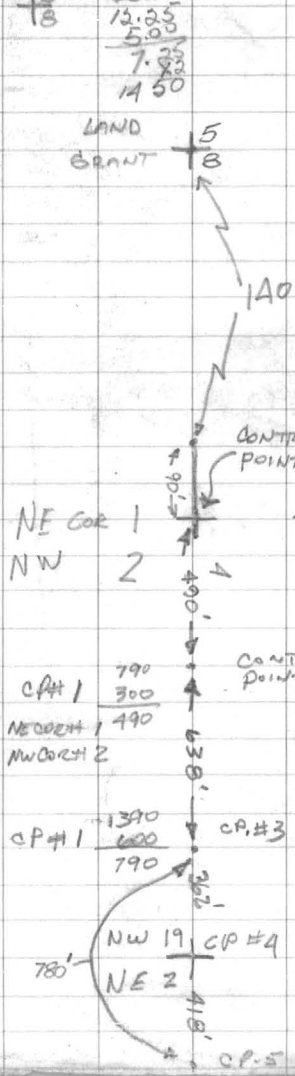
TRANSIT STADIA SURVEY
DAVID CLAIM GROUP
JOB NO - B-259-68

ANDERSON
MOULINET
MARTINEZ
HAWKINS (1)
SALAS

JULY 9, 1968

@	BS	R.I.	FS	VER. ∠	HOR ∠	DIST.
C.P. #1	5/8	12.25 5.00 7.25 14 50		10° 30'	180°	1400'



C.P.#2	CP#1 NE COR #1 NW COR #2	790 300 490		1° 5'	180°	490'
C.P.# 2	CP#1	1390 600 790	CP.#3	26° 00'	180°	638'
CP#3			CP #4	14° 05'	180°	362'

885
790

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TRANSIT STADIA SURVEY
DAVID CLAIM GROUP
JOB # B-259-68

TR.MK. REG. U.S. PAT. OFF.

9-7-68

T@	BS	R.I	FS	V ∠	H ∠	DIST
CP3		800 1/25 400 400 x 800	CP#5	8°56	180°	780
CP#5	—	525 300 225 x2 450	CP-6	4°07'	180	448
CP-7	CP6	745 600 145	CP-6	1°15'	180	145'
CP-7	CP-6	715 200 515	SEC COR 5/4 8/9	2°50'	180	514
CP7	CP-6	1180 700 480	NE COR 13 NW COR 20		180°	~~481~~ 479

21
35

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TRANSIT STADIA SURVEY
DAVID CLAIM GROUP
10-JULY 1968
JOB# B-259-68

π ANDERSON
Φ MARTINEZ
Φ HAWKINS
Φ SALAS

TR.MK. REG. U.S. PAT. OFF.

π@	BS	RI	FS	VER ∠	H ∠	DIST
SECTION CORNER	5/8			7° 1"	90°	590'
		1500 9.10	SW 1 NW 3			
SW 1 NW 3	5/8	1500 9.10 590	SW 3 NW 5	1° 30'	180	~~1°30'~~ 590
TP#1	5/8	4.00 4.65	SW 5 NW 7	90°	180	65'
TP 1	~~5/8~~	1500 1232 268	SW 7 NW 9 268 536	90° 2'	180	525
TP 2	SW 7 NW 9	200 405		90° 9'	180	205'
TP 2	"	1500 1115	SW 9 NW 11	1° 10'	"	385
TP 2	"	1500 909		2° 19'	180	590
TP 3	SW 9 NW 11	1500 1102		3° 25'	"	397
TP #3		1500 1305	SW 11 NW 13	2° 10'		193
SW 11 NW 13		828 300	TP 4	6° 00'		522'
TP 4		2.00 2.68	SW 13 NW 15	0° 12'		68
TP 5	SW 13 NW 15	176 100		1° 24'		75'
TP 5	"	1500 977	SW 15 NW 17	7° 00'		515
TP 6	SW 15 NW 17	1500 1230		0° 02'		270
			TOTAL FEET			4990'

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1500
1210
290

287
270
557

590
557
33

1500
1090
410

55
31
24

320
290
30

270
435
605

435

669
821
0

1490
821
669

1500
678
822
− 1

1500
669
831
669
1500

1490
821
669

2 | 590
295

1500
669
831

300

TRANSIT - STADIA SURVEY
DAVID CLAIM GROUP
10-7-68

D ANDERSON
D MARTINEZ
B HAWKINS
F SALAS

TR.MK. REG. U.S. PAT. OFF.

T	BS	RT	F.S.	Ver ∠	H ∠	DIST
TP 6	SW 15 / NW 17	1500 / 1210	—	6° 8'		287
CLOSURE		52	77'			
TP 6	"		NW 19 / SW 15	6° 20'		320
				11-7-68		
8 / 17	Sec. line				90°	
		15.00 / 6.78	TP 7	2° 25'		821
TP #7		15 00 / 8 31	TP #8	0° 00'	180°	669
TP 8			SE 17 / SW 18	—	270°	30' Sec.
TP 8		865 / 600	EC 17 / 18	1° 00'	90°	265' N
~~TP 8~~			~~NE 17 / NW 18~~			~~560'~~
TP 8		15 00 / 10 85	TP 9	5° 00	90°	412 N
TP 9	TP 8	1500 / 1353	NE 17 / NW 18	1° 08'	180°	147 N
TP 9		1500 / 910	TP 10	4° 31'	180°	586 N
TP 10	TP 8	1500 / 1350	EC W 16 / E 15	11° 3'		143 SO
TP 10	TP 8	861 / 700	NW 16 / NE 15	13° 31		152 N

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530

590
295
885
60
825

1360
800
560

1438
900
538

900

TRANSIT STADIA · SURVEY
DAVID CLAIM GP

π ANDERSON
φ MARTINEZ
φ HAWKINS
φ SALAS

TR.MK. REG. U.S. PAT. OFF.

11-7-68

Π@	BS	RI	FS	Ver ∠	H ∠ 180°	DIST
NW 16 NE 15	TP 8	890 700 190	TP 11		← 10°00	184'
TP 11	TP 8	411 300	EC 13 14	1°06'	180°	111'
TP 11	TP 8	1206 800	SW 12 SE 11	0°30	180°	406'
TP 11	TP 8	1500 796	EC 11 & 12	3°34	180°	701'
TP 11	TP 8	962 300	TP 12	3°34	180°	659'
TP 12	TP 11	1500 1163	SE 9 SW 10	0°30'	180°	337
TP 12	TP 11	845 200	EC 9-10	8°01'	180°	632
TP 12	TP 11	1250 400	TP B	9°36'	180°	826
12/7						
TP 13	TP 8	301 200	SE 7 SW 8	0°32'	180°	101
TP 13	TP 8	507 100	EC 7-8	9°24	180°	396
TP 13	[illegible]	918 400	TP 14	10°28	180°	501
TP 14	TP 8	494 300	SE 5 SW 6	7°38	180	190
TP 14	TP 8	955 700	TP 15	7°40		250
TP 15	TP 8	1135 900	EC 5-6	1°10'		235
TP 15	TP 8	1431 900	SE 3 SW 4	3°00		530

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70
64 40
5 10

825'

NORTH BOUNDRY
IS 6' OFF!

STADIA SURVEY
DAVID CLAIM GROUP
12-7-68
B-259-68

π D. ANDERSON
⊕ D. MARTINEZ
⊸ B. HAWKINS
⊏⊐ F. SALAS

TR.MK. REG. U.S. PAT. OFF.

π @	BS	RI	FS	VER ∠	HZ ∠	DIST
TP #15	TP #8	1500 672	EC 3 & 4	3°25'	180°	825
TP 16	EC 3 & 4	1500 1225		5°10'	180' ~~5°10'~~	273'

MEASURED 22' WITH TAPE 40

SE CORNER DAVID #1
SW " " #2

TP 16	TP 15	820 500	EC 1-3	4°45'	180°	317'
EC 1-3	TP 15	1500 898	NE 1 NW 3	7°03	180°	593'

MISSED CORNER BY 8', SHIFTED IT 6' TO MAKE NORTH BOUNDRY CLOSE PROPERLY.

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COME 153' 142' to 90

+295

437' to SE #2 - SW #19

+295

732' to END C. 4 & 21

69

142 to SE A SW 21

295

437 to END CENTER 6 & 23

−256

181

STADIA SURVEY
DAVID CLAIMS (B259-68)
12-7-68

A ANDERSON
D MARTINEZ
W HAWKINS
R SALAS

TR.MK. REG. U.S. PAT. OFF.

TO	BS	RI	FS	Ver ∠	H ∠	Dist
NE #2 NW #19	Fence Line	600 500	TP17	20°44'	270°	87'
19	NE #2 NW#19	160 100	TP20	2°04	180°00	66'
TP20	TP#19	1500 1357	END CENTER 2 & 19	4°32'	180	142
TP20	"	1500 1063	SE #2 SW #19	1°00	"	437'
TP20	"	1500 768	END CENTER 4 & 21	1°00		732'
TP20	"	1075 200	TP21	1°46'	180	874
TP21	"	344 200	SE #4 SW #21	6°20'		142'
TP21	"	460 200	TP22	7°12'	180°	256
TP22	"	1194 900	END CENTER 6 & 23	15°21	"	181
TP22	"	1162 700	TP23	10°15	"	448
TP23	"	TAPED	SE 6 SW 23			28'

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STADIA SURVEY
DAVID CLAIMS B259-68
15-7-68

ANDERSON
MARTINEZ
HAWKINS
SALAS

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TO	BS	RI	FS	VER ∡	H ∡	DIST
TP23	TP19	1023 700	END CENTER 8 ∢ 25	1°22'	180°	323
TP23	TP19	225 100	TP24	2°27'	180°	125
TP24	TP19 ~~20~~	693 200	SE 8 SW 25	0°24'	180	493
TP24	TP19	988 200 788	END CENTER 10 ∢ 27	1°25'	180	788
EC 10-27	TP24	986 900	TP25	0°20	180°	86
TP25	TP24	1500 1286	SE 10 SW 27	8°10'	180°	210
TP25	TP24	1500 1240 1/2 STADIA	END CENTER 12 ∢ 29	10°02'	180°	505
TP25	TP24	1500 692	SE 12 SW 29	5°34'	180°	800
TP25	TP24	1500 920	TP26	4°37'	180°	?
TP26	SE 12 SW 29	775 500		2°02	180°	225
TP26	TP25	1500 1430	END CENTER 14-31	1° 47		70
TP26	TP25	1500 1365	TP27	6°12'	180	133'

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295
−63
222
590
812

216
295
511

1
213
191
995
1399

718
200
518
− 4
514

90
85 11
4049

715

95

99
71 10
1850

90
8445

515

1500
505
995

192
1490
1399
91

5
238
−25
213

540
511
29 BACK to So Boundary

STADIA SURVEY.
DAVID CLAIMS
B-259-68 7-15-68

ANDERSON
MARTINEZ
HAWKINS
SALAS

TR.MK. REG. U.S. PAT. OFF.

TO	BS	RI	FS	VER ∠	HA	DIST
TP27	TP26	1500 1263	SE14 SW31	14°40	180°	222
TP27	TP26	1500 962	END CENTER 16 & 33	11°25'	180	517
TP27	TP26	1500 666	SE16 SW33	9°18	180°	812
TP27	TP26	1500 590	TP28	8°23'	180°	891
TP28	TP27	1500 1285	END CENTER 18 & 35	3°08	180°	216
TP28	TP27	715 200	SE18 SW35	4°49	180	511
TP28	TP27	740 200 ↓	TP29	5°15	180	540
HEADING EAST					→	→
TP29	TP27	938 700	TP30	18°50	90°	213
TP30	TP29	1192 1000	TP31	3°39'	90°	191
TP31	TP30	1500 505	TP32	1°27	90°	995
TP32	TP31	191 100	~~SE35~~ ~~SW36~~ TP32	3°01	90°	91
						1490'

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104' to SECTION Cold [illegible]

1500
1272
228
- 7

738
100
638
- 10
628
+1490
2118
- 221
1897
1640
2 533
2

4499 Length of Section

683
867
490

4499
- 1892

1490
- 628
867

1500
660
840

1500
625
875
- 1
74
67
7

2° 24'

1068
200
868
1056

1500
630
870
1

2° 15'

1500
608
892
1856

STADIA SURVEY (B-259-68)

DAVID CLAIMS

7-16-68

ADDERSO
MARTIN
HAWKIN
SALAS
TR.MK. REG. U.S. PAT. OFF.

∠	BS	RI	FS	VERT	HZ	DIST
	SEC COR					
TP 8	8/17	788 / 80	TP 33	8°48	180	623
	SEC COR		1/4 COR			
TP33	8/17	500 / 272	8/17	10°10'	180°	-221
TP33	8/17	1068 / 200	TP34	1°56'	180°	867
TP34	8/17	HEADING NORTH			90	

REPLACING LINE #3

SHIFTING IT EAST TO

GET RID OF ERROR!

NE19 NW20	SECTION CORNER 8/9	848 / 700	END CENTER 19&20	3°32'	90°	295
NE 19 NW 20		10 00 / A 00				590

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590
295
884
825
56

7°.54

1500
1205
295

295
2/590
4
19
14

#1

MOULINET
MARTINEZ
SALAS
HAWKINS

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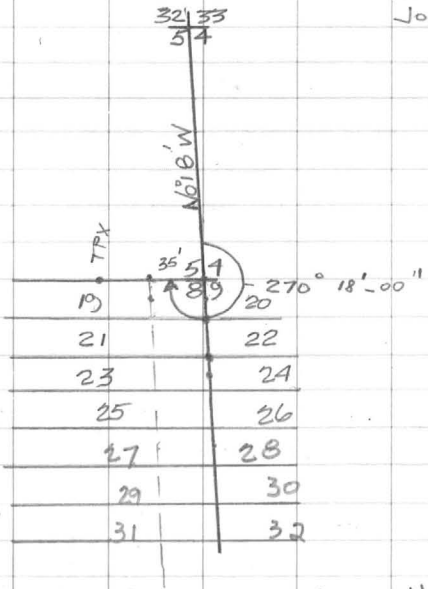
JULY 17, 1968
JOB# 2596



⊼ @	BS	R.I.	FS	VERL	HORIZL	DIST
5/4 8/9	32/33 5/4		TP × ON HILL & NE DAVID A NW " 20	⊖	270° 18'	CHAINED WEST FROM COR 35'
RUNNING So. ALONG SEC. LINE - CH. E 14' & W 84' to Loc Mon & 35' W. to E.C.						
"	"	1500 / 1205 / 295	C.P.1	2°54'	180°	294'
CH. E ∂ N to Loc Mon ∂ EC.						
"	"	1105 / 500 / 605	C.P.2	6°51'	180	596'
CH to NE 21 NW 22						
"	"	1440 / 600 / 840	C.P.3	8°05'		825'
1900 / 255 / 845			840 / 825			

42

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1400
90
490
638
362
418
448
145
~~52~~
3991
514
4505 To Sec Cor

4505.00
4498.56
7.44

514
479
35

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590
295
885

212
295
507

266 . 33
3 27

295
3
885
83
802

83
212
295

58
149
198
97
295

870

295
295
212
802

295
97
592
295
687
596
91

TR.MK. REG. U.S. PAT. OFF.

~~AT~~ @	BS	RI	FS	VERT ∠	HORZ ∠	DIST
C.P.3	32/33 5/4	160 100 60		3°-01'	180°	60
	SET FELL ON ROAD	EC 22 & 21	4' EAST OF PT			
CP.3	"	~~570~~ 425 145	~~[illegible]~~ C.P.4	7°-00'	180	143 60 183
JULY 18, 1968		THURS: 7:30		6:05		
CP-4	32/33 5/4	12.12 10.00 212	NE 23 NW 24	0	180	212
CP-4	"	7.09 2.00 509	EC 23-24 ~~[illegible]~~	4°01'	180°	507
CP-4	"	11.20 2.50 8.70	CP-5.	6°09'	180°	860
C.P.4	"	10.12 2.00 812	NE 25 NW 26	6°15'	180	802
CP 5	"	340 2.00 1.40	CP-6	1°	180	140
CP-6	"	600 5.00 100	EC 25-26	10°40'	180°	97'
"	"	12.95 9.00 3.95	NE 25 NW 26	5°55'		391' +1 392
C.P.6	"	798 2.00 5.98	CP.7			596

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295
91
386

386
295
681

681
295
976

1000
986
514

975
275
1270

97

2

295
60
235

313
235
78

295
78
217

TR.MK. REG. U.S. PAT. OFF.

T@	B.S.	R.I	FS	Vert	Hor	
CP.7	CP.6	13.65 13.00 65	1/4 cor 8/9	0	180	65
CP.7	"	15.00 14.05 95	EC. 27 28	8°27	180	93 -2 91
CP.7	"	~~14.65~~ 11.95 ~~[illegible]~~ 10.00 ~~[illegible]~~ 1.95 ~~[illegible]~~ 2 ~~[illegible]~~ 390.	NE 29 NW 30	7°07	180°	384 + 2CH 386
CP.7	"	11.85 500 685	EC. 29 30	5°-05'	180.	680 +1 681
CP.7	"	14.75 5.00 9.75	NE 31 NW 32	1°-36'	180	975'
CP.7	"	15.00 8.35 6.65 2 13.30	CP.8	1°50'	180°	1330'
CP.7	"	11.35 5.00 6.35 2 12.70	EC. 31 32	1°35'	180°	1270
CP.8	32/33 5/4	435 200 235	NE 33 NW 34	0	180	235
CP.8	"	913 600 313	CP.9	0	180°	313

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294
5

91
65
26

825
143
860
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596
564
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2629

2640

2629
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2655

590
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2950
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2655
26
9

590
8
472
29

590
9
5310

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217
295

512

595
435

780

530

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Tm @	BS	RI	FS	VERT ∠	HORZ ∠	DIST
CP.9	32 | 33 5 | 4	1417 1200 217	EC 33 34	~~0~~	180°	217
CP.9	" ~~CP.8~~	1500 985 515	NE 35 NW 36	3°54'	180°	513 -1 512
NE 35 NW 36	EC 33 34	748 500 298	EC. 35 36	6° -	180°	295
"	"		~~NE 37~~ ~~NW 36~~		180°	
"	"	1500 1060 440	CP.10 SEC. COR	5°59'	180°	435'
CP.10	EC. 35 36	1900 1390 510	8 | 9 17 | 16	9°22'	180	107'
CP.10	"	665 500 165	NE 35 NW 36	11°3'	180'	159 +1 160'

53' OVER
SEC. LINE

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#2 2640 1455 1185

2640 1455 1185

MOULINET
MARTINEZ
SALAS
HAWKINS

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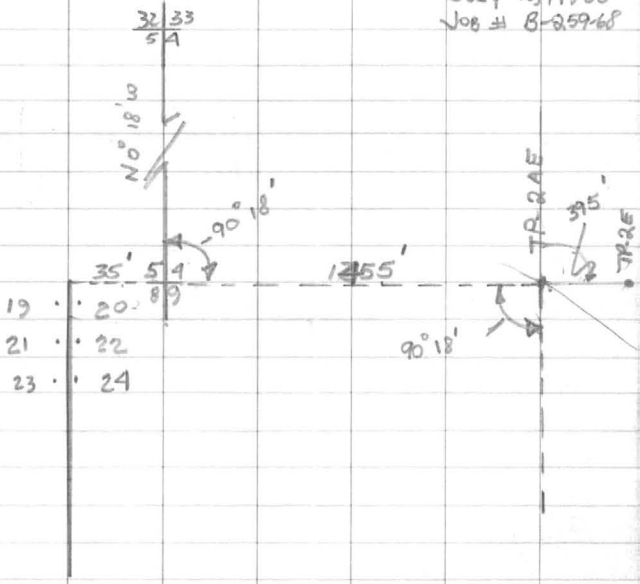
JULY 10, 1968
JOB # B-259-68



T@	B.S	R.I.	F.S	VERT∠	HORIZ∠	DIST
5/4 8/9	32/33 5/4	1500 1130 370	TP-1E	0	90°18'	370
"	"	1500 575 925 1455 5°00 925×2	TP-2AE	0°22'	90°18'	1850
TP-1E	5/4 8/9	12.40 5.00 7.40 ×2 1480	TP-2E	0	180°	1480'
TP-2E	"	~~5/4~~	TP-2A-E	~~0°36'~~	90°18'	~~44~~

42

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590
295
885

325
29

295
159
136

186
27
443

1935
120
235
470

295
136
431

150
120
30

480

295

480
27
443

335
46
389

590
136
726
295
1021
910
111
295
406

TR.MK. REG. U.S. PAT. OFF.

MOULINET
MARTINEZ
SALAS
HAWKINS

T@	B.S	R.I.	F.S	VOR ∠	HOR ∠	DIST
TR-2E	5/8 4/9	896 500 396	TR-2AE	3°07'40"	180°	395(-)
		GO	SOUTH			
TR-2AE	TP-2E	10.98 8.00 298	WEC. 37 EEC 20	5°-38	90°18'	295
TR-2AE	"	894 300 594	~~SE~~ 20 SW 37	4°-30'	~~18~~ 90°18'	590
"	"	1408 500 908	EEC. 22 WEC 39	9°-25'	90°-18'	884
EEC.22 WEC 39	TP-2AE	660 500 160	~~SE~~ 22 SW 39 TP-15	3°-46'	180°	159'
TP-15		692 500 192	SEC. 22 SW 39	12°52	180	135 +1
SE.22 SW 39 ~~TP-15~~	~~SE 22~~ TP-15	13.25 10.00 325	WEC 41 EEC 24	17°25'	180°	296-
		BACK	TO	TP-15	- UP HILL	-136
TP-15	EEC 22 WEC.39	1227 500 727		1°-25'	180°	
TP-15	"	1410 500 910	TP-25	0° 50'	180	910
TP-25	"	14.10 10.00 110 +1	EEC 26 WEC 43	~~0~~	180	111
TP-23	"	908 500 408	SE 26 SW 43	4°-06'	180	406

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1175
675
675
675
349
129
600

590
295
885
295
1180

590
295
8

130
12

~~937~~
~~51~~
~~988~~

937
51
886
295
1181

269 60
262 02
7 58

295
51
244 ✓
295
539
393
146 ✓

393
51
444

269 60
240 36
29 24

590
444
146

269 60
257 18
12 42

295
146
441

269 60
253 15
16 45

441
295
736
583
153

MOULINET & MARTINEZ
SALAS
HAWKINS
TR.MK. REG. U.S. PAT. OFF.

TC	B.S.	R.I.	F.S.	VER. ∠	HOR ∠	DIST
SE 26 SW 43	EEC. 26 WEC. 43	1300 1000 300	EEC. 28 WEC. 45	7°39	180°	295
"	"	10.95 5.00 595	SE 28 SW 45	4° 58'	180°	590
"	"	1944 1000 498 2 888	EEC 30 WEC 47	2°25	180°	886
"	"	1500 275 225	TP 35	0°	180°	
JULY 22, 1968		11.12 5.00 612 2 1224				
TP-35	EEC. 28 WEC. 45	1440 500 940	EEC 28 WEC 45	2°57'40"	180°	937
TP-35	"	451 400 51	SE 30 SW 47	~~0~~	180°	51
TR35	"	751 500 251	EEC 32 WEC 49	9°26'	180°	244
"	"	898 500 398	TP45	7°58'	180°	393
TP45	TP-35	660 500 160	SE 32 SW 49	16°45'	180°	148 -2 146
TP-45	"	1441 1000 441	EEC 34 WEC 51	0°	180°	441
TP-45	"	183 200 583	TP-55	0°	180°	583

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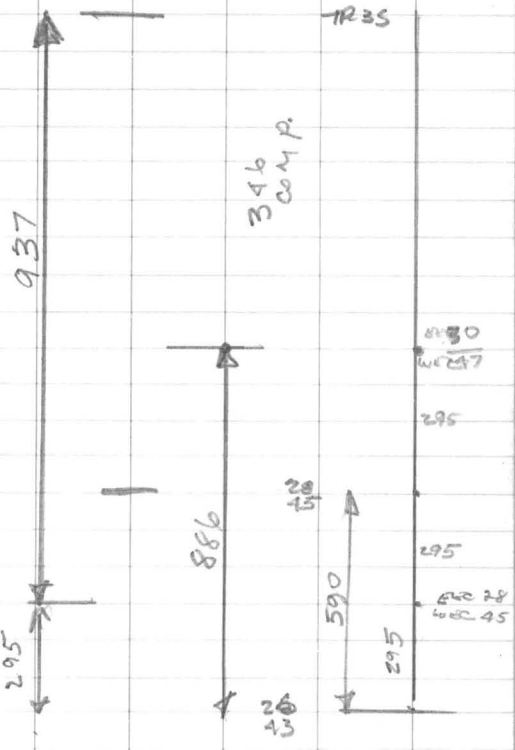
937
295
1.232
51
1.181

1232
886
346

346
295
51



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TT	B.S	R.I	FS	VERL	HORL	DIST
TP-55	TP-35	1500 1346 154	SE 34 SW 51	0°	180	154
TP-55	"	852 200 452	EEC 36 WEC 53	4° 20'	180°	~~450~~ 449
TP-55	"	945 200 745	SE 36 SW 53	2° 05'	180°	744
"		END THIS TRAVERSE		9° 35	180	441
SE 36 SW 53	EEC 30 WEC 47	1430 200 1230	TP-65	3° 10'	85° 34'	

6.15

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180
89 42
269 42

1496
395
1095
597
498

1455
395
2945
597

79.96
66
47976
47976
527736

1455
395
597
498
2945
- 312
2633

66
.04
2.64

2640

2638.68
2 | 5277.36
4
17
16
13
12
10

269° 60
90 18
279 42

359 60
90 18
269° - 42'

360

359 60
90 18
269° 42'

179 66
90 18
89 42

2015
12
189

590
402
188

269 60
253 51
16 09

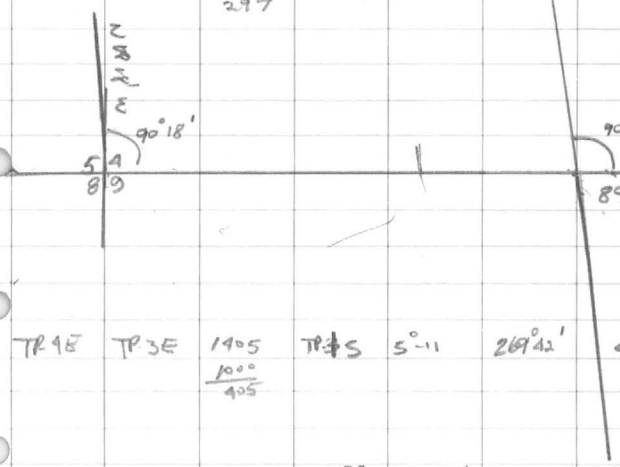
#B 6

MOULINET
MARTINEZ
HAWKINS
SALAS

TR.MK. REG. U.S. PAT. OFF.
TUES. JULY 23 1968

CONTROL LINE EAST

TO	B.S	R.I.	F.S	VERT	HORZ	DIST.
TP-2E	5/8 4/9	1600 1200 300 ×2 600	TP-3E	4° 09'	180°	597
TP-3E	"	1500 1250 250 2 500	TP-4E	2° 35'	180°	499 CH - 1 498
TP-4E	TP-3E	814 500 314	1/4 Cor 4/9	4°-06'	180°	-312
TP-4E (NE 37 NW 38)	TP-3E ~~SE 37~~ ~~WE 38~~	797 500 297	EE 37 WE 38	4° 53'	269° 42' ~~180°~~	295



TP-4E	TP-3E	1405 1000 405	TP-5	5°-11	269° 42'	402'
TP-5	TP-4E	405 200 205	NE 39 NW 40	16° 09'	180°	189

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590
295
885
402
483
295
778
695
123
295
418
295
713
295
1008

402
189
591

761
713
48

295
48
247

360
48
408

590
408
182

TR.MK. REG. U.S. PAT. OFF.

At@	B.S.	R.I.	F.S.	Vert ∠	Hor ∠	DIST
TP-1S	TP-4E	1490 1000 490	EEC 39 WEC 40	6°-33	180	484
TP-1S	"	1150 500 650	TP-2S	4° 58'	180	645
TP-2S	TP-1S	624 500 124	NE 41 NW 42	6° 57'	180	123
TP-2S	"	1420 1000 420	EEC 41 WEC 42	2°-30'	180	419 -1 418
TP-2S	"	1220 500 720	NE 43 44	5°-50	180°	713
TP-2S	"	1270 500 770	TP-3S	6° 07'	180	761
		WED	July	29		
TP-3S	"	1248 1000 248	EEC 45 WEC 46	3° 08'	180	247
TP-3S	"	~~12~~ 860 500 360	TP-4S	1° 24'	180	360
42 TP-4S	TP-3S	685 500 185	NE 47 NW 48	7° 07'	180	182

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95
9
86

182
295
477

269 60
252 19
12 41

590
295
885
728
157

60
30
29

369
72

429
157
272

295
272
23
295
318

295
23
272

295
23
318
231
87

23
23
254

297
2 4
5

69
297 57
22 23

69 60
252 19
17 41

π MOULINET
b MARTINEL

TR.MK. REG. U.S. PAT. OFF.

Π@	B.S	R.I.	F.S	VERT∠	HOR∠	DIST
TP-4S	TP-3S	18.44 1000 244 2 488		8°30'	180	477
~~EEC 45~~ ~~WEC 46~~	NE 45 NW 45	910 600 310	NE 47 NW 48	12° 25'	180°	296 - 1 295
EEC 45 WEC 46	"	1295 1000 295 2 590	EEC 47 WEC 48	0	180°	590
"	"	13.64 1000 364 x 2 728	TP-5S	0°45'	180°	728
TP-5S	"	10.30 600 4.30	TP-6S	2°-30'	180	429
TP-6S	"	7.74 500 2.74	NE 49 NW 50	5°05'	180°	-272
TP-6S	"	CHAIN 23'	EEC 49 WEC 50	——	180	23'
TP-6S	"	12.38 1000 2.38	TP-7S	10°06'	180°	231
TP-7S	EEC 49 WEC 50	595 500 95	NE 51 NW 52	17°40'	180	86

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295
86
381

516
381
135

295
135
160 ✓
295
155
295
750

381
295
676
516
160 ✓

1367
1000
367
2
131

1375
1000
375
750

MOULINET & MARTINEZ HAWKINS SALAS
TR.MK. REG. U.S. PAT. OFF.

⊼ @	B.S.	R.I.	F.S.	VER. ∠	HOR. ∠	DIST.
TP-7S	EEC 49 WEC 50	882 500 382	EEC 51 WEC 52	3°33'	180°	381
TP7S	"	360 100 260 2 520	TP-8S	5°08'	180°	516
TP-8S	NE. 37 NW 38	662 500 162	NE 53 NW 54	5°38'	180	162
TP-8S	"	1455 1000 455	EEC 53 WEC 54	0°	180	455'
TP-8S	"		~~SW 54~~ ~~SE 53~~ TP-9S		180	
TP-8S	"	1375 1000 375 2 750	~~SW 54~~ ~~SE 53~~	3°00'	180	747 +3 750

END TRAVERSE

312 E OF ¼ COR ON NORTH

189
134
323

1200
1000
200

11 34
1200
1334

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1490
1490
1455
4435

1490
603
887

5060
4435
845

295
3
885

590
295
885
295
1180
295
1475

1200

1185

1500
1185
2685

1095
3
595
2
1190

1500
372
1130

597
2
1194
1200

998
400
598
2
1196
2 598

595
2
1190

1500
882
618
636
1236

A

Moulinet
Martinez
Salas
Hawkins

TR.MK. REG. U.S. PAT. OFF.

Thur July 8.5

At @	B.S	R.I.	F.S	Vert ∠	Horz ∠	DIST
TP-4E NE 37 NW 38	TP-3E	10.05 1.00 605	TP-5E	3°18'	180°	603
TP-5E	"	9.87 1.00 887	TP-6E	0°	180°	887
		Go	South			
TP-6E NW 55 NE 38	TP-5E	13.02 10.00 302	EEC 38 WEC 55	8°57'	~~180°~~ 269°42'	295'
"	"	1500 898 602	NW NE	6°11'	~~[illegible]~~ "	595
"	"				"	
"	"	1386 500 886		1°46'	"	885
"	"	1093 500 593 2 1186		4°15'	"	1180
~~" ~~	~~" ~~	~~1500 881 619 2 1238~~	~~TP-1S~~	~~4°32'~~	~~" ~~	~~1230'~~
"	"	1108 500 608 2 1216	TP-1S	4°26'	"	1209

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1475
1237
238

1209
28
1237

238
159
79

269 60
295 30
24 30

269 40
41 52
58 08

295
80
375

375
65
440

295
65
230

230
295
525
420
105

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Tr@	B.S	RI	F.S	Vert	Horz	Dis
TR 25	TP 15	——	TP 25	0°	180°	28
						CHAINED
~~TR 25~~	~~11~~	~~953 800 153~~	~~TR 35~~			
TR 25	11	1359 1200 159	TR 35	0°	180	159
TR 35	11	1304 1200 104	EEC 42 WEC 59	28° 08'	180	80
TR 35	TR 25	883 500 383	NE 44 NW 61 ~~EEC 47 WEC 59~~	8° 21	180°	375
11	11	1447 1000 447	TP 45 ~~28 69 WEC 47~~	7° 30	180°	440
			Fri. July 26			
TP 45	TR 35	1238 1000 238	~~EEC 40 WEC 47~~ EEC 44 WEC 61	10° 45'	180°	230
TR 45	11	725 300 425	TR 55	6° 20'	180°	420
TR 55	TR 45	1134 1000 134	NE 46 NW 63	25° 05'	180°	105

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462

105
295
400
295
695
295
990

1400
365
2

9

1223
32
1241

921
729
192
295

295
295
243
295
538
399
139
295
434
295
729

1420
12
220
440

729
295
1024
921
103

TR. MOULINET
& MARTINEZ
SALAS
HAWKINS

TR.MK. REG. U.S. PAT. OFF.

TR	B.S.	R.I.	F.S	VERL	HORL	DIST
TP-5S	TP-4S	923 500 423	EC. 46 WEC 63	13°-30'	180°	400
TP5S	"	1500 780 720	NE 48 NW 65	10°43'	180	695
TP-5S	"	1223 200 1023 -33 990	EC. 48 WEC 65	9°-20	180°	990
TP-5S	"	1468 400 1068 -26 42	TP-6S	8°-58'	180	1042
TP6S	TP-5S	1247 1000 247	NE 50 NW 67	7°20'	180°	243
TP-6S	"	803 400 403	TP-7S	5°16'	180°	399
TP-7S	"	845 700 145	EC. 50 WEC 67	11°12'	180°	140
TP7S	"	14.38 10.00 4.38	NE 52 NW 69	3°30'	180°	436 CH. - 2 434
"	"	830 100 730	EC. 52 WEC 69	1°37'	180°	729
42 "	"	1927 500 927	TP-8S	4°45'	180°	921

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$$\begin{array}{r} 295 \\ 88 \\ \hline 207 \end{array}$$

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HAWKINS
SALAS
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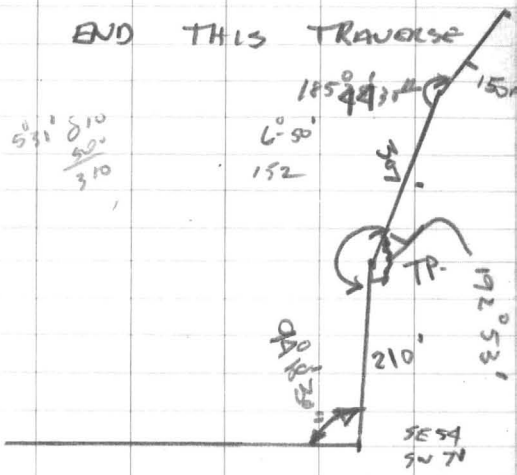
AT	BS	R.I.	FS.	VERL	HORL	DIST
TP-95	TP-55	803 700 103	NE 54 NW 71	1°-05'	180°	103
NE 54 NW 71	"	1500 1200 300	EEC 54 WEC 71	5°-30'	180°	297 - 2 295
NC			TP-95	LINE ONLY		
TP-95	~~EEC 54~~ T 71 EEC 54 WEC 71	138 50 88	EEC 54 71	0°		-88
TP-95	" "	410 200 210	SW 71 SE 54	6°26'	180	207

END THIS TRAVERSE



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$\frac{50}{2}$

$$\begin{array}{r} 1455 \\ 2950 \\ \hline 4430 \end{array}$$

52

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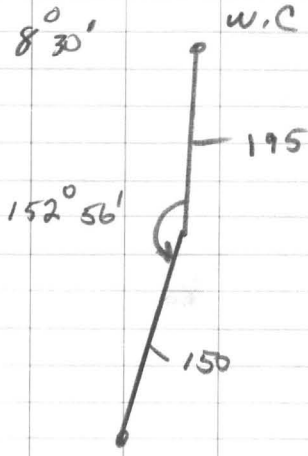
11.79
10 00
19 9 @ 8° 30'



195
150
210
307
862

5277
49 30
847

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255

14 17

79.96
66
47976
47976
5277.36

197
628
1490
1490
1455
5230

628
197
66
582
582
4.02

1496
825
665
825
1490

#5

TR.MK. REG. U.S. PAT. OFF.

T@	BS	RI	FS	VERT ∠	HOR ∠	DIST
TR13E	COR	788 300 488	TR1S	3°03'	269°43	427
TR1S	TP-13E	967 900 67	TR2S	16°06'	180°	62
TR2S	TP-1S	1347 1200 147	NE58	13°0"	180°	125
TP-2S	"	599 300 299	TP-3S	15°09'	180°	279
TR3S	TP-1S	560 400 160	~~EE~~ 58	20°15'	180°	140
TR-3S	"	938 500 438	SE58 NE60	5°22'	180°	434
TR-3S	"	1117 500 617	TR4S	1°09'	180°	617
TR4S	"	1218 1150 68	TR5S	0°	180°	68'

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TO	B.S	RI	FS	Vert	Hor	DIST
TP-5S	TP-4S	852 800 52	EEC 60	20°20'	180	45
TP-5S	"	1500 1100 400	NE 62	23°0'	180	340
TP-5S	"	1283 500 783	TP-6S	2°45'	180	781
TP5S	"	1485 600 885	TP-7S	1°54'	180°	884
~~TP-4S~~ TP6S	"	873 850 23	TP6AS	0°	180°	23
TP-6AS	"	1052 900 152	EEC 62	26°58'	180°	122
TP-7S	"	1497 1450 47	BE 64	0°	180	47'
TP-7S	"	768 200 568	TP-8S	11°28'	180°	546
TP-8S	TP-7S	1500 1296 204	EEC 64	0°	180	-204

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$$\begin{array}{r} 271 \\ 91 \\ \hline 180 \end{array}$$

$$\begin{array}{r} 295 \\ 180 \\ \hline 115 \\ 295 \\ \hline 410 \\ 295 \\ \hline 705 \end{array}$$

$$\begin{array}{r} 295 \\ 35 \\ \hline 260 \end{array}$$

$$\begin{array}{r} 590 \\ 397 \\ \hline 193 \end{array}$$

TR.MK. REG. U.S. PAT. OFF.

T@	B.S	R.I	FS	Jerk	Hor	Dist
TP-85	TP 75	791 700	NE 66	0°	180°	91
TP-85	"	771 500 271	TP95	2°30'	180°	271
TP-95	"	1500 1385 115	EEC 68	0°	180	115
TP-95	"	1417 1000 417	NE 68	8°08'	180	409
TP-95	"	1440 700 740	TP-105	0°	180°	740
TP-95	"	1205 500 705	EEC 68	0°	180°	705
TP-105	"	761 500 261	NE 70	3°33'	180°	260
		Mon —				
NE 70	TP 75	796 300 496	EEC 70	3°52'	180	295
42 "	"	898 500 398	TP-115	3°08'	180°	397

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Tc	BS	RI	FS	Vac	Horz	Dist
TP-115	TP75	620 500 120	TP-125	9°13'	180°	117
TP-125	TP115	578 500 78	NE 72	9°12'	180°	76
TP-115	"	880 500 380	EC 72	8°49'	180°	370
TP-125	"	1335 1000 335 2 670	SE 72	4°00'	180°	667
		END	TRAVERSE			

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89° 42'

507
-35
472
623
1095
323
1418
64
1482

269 60
262 58
7 02

89 60
69 25
20 35

5

9 8

69 60
261 41
8 19

89
66
140
295
140
435

#5

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MARTINEZ
SALAS
HAWKINS

TR.MK. REG. U.S. PAT. OFF.

CONTROL LINE EAST

π@	BS	R.I.	F.S.	VERT ∠	HORIZ ∠	DIST
4 | 3/10	4 | 9/~~8~~10		TP-8E			64 RECORD
4 | 3/10	"	1342 / 1000 / 342 ×2 / 684 / 15 / 666	9E	9°24'	270°17'	666*
"	"	1430 / 1000 / 430 / 2 / 860	TP-10E	5°-34'	270°17'	852
TP-10E	4 | 3/10	1215 / 500 / 718	TP-11E	8°20'	180°	703
TP-11E	"	~~880~~ / 500 / 380	TP-12E	21°29'	180	330
		~~917~~ / ~~200~~ / ~~717~~				
TP-12E	"	1273 / 1000 / 273	TP-13E	5°-01'	180	27N

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61
295
259
295
654

703
655
48

290
48
242

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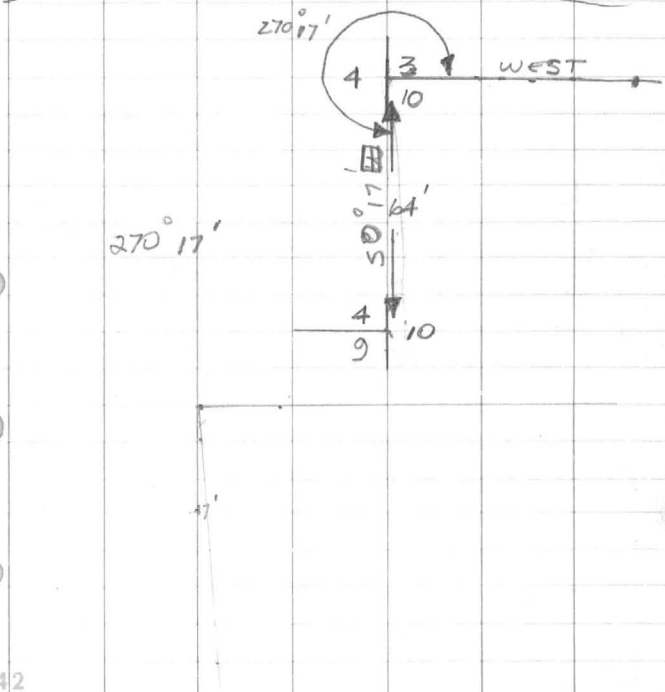
TUE JULY 30, 1968

AT	BS	RI	FS	VERT'L	HORZ	DIST
NE 38		1128	TR7E	0°52'	180	628
NW 55	TR-5E	500				
		628				
TR7E	TR-5E	710	SEC.COR	74°17'	180°	197
		500				
		210				

END TRAVERSE
ALONG SEC. LINE



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```
  68.16
     66
 40896
 40896
44985 6
```

```
628
197
666
1491 *
```

```
852
666
186
```

```
186
703
889
```

```
186
703
330
271
1490
```

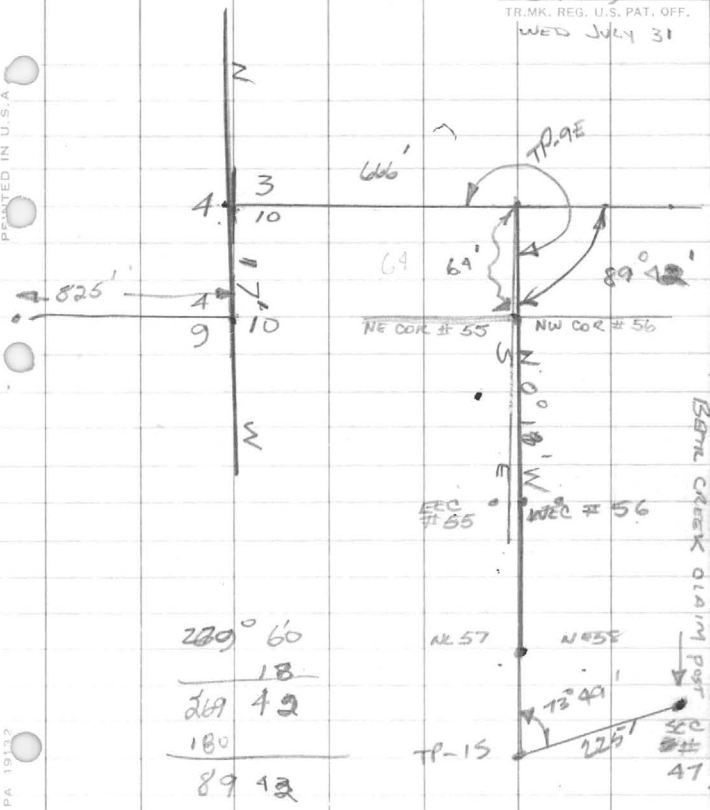
```
1490
889
601
330
271
```

```
89 60
84 59
5- 01
```

```
852
666
186
703
889
330
1219
271
1490
```

MOULINET
MARTINEZ
HAWKINS
SALAS

WED JULY 31



269° 60
18
269 42
180
89 42

Π@	BS	RI	F.S.	VERL	HOR L	DIST
TP 9E	TP 10E	611 550 64	NE 55 NW 56	0°	89°43'	64
"	~~WCC 56~~ ~~ERC 55~~	859 500 359	ERC 55 WCC 56	0°	"	359
"	"	855 200 655	NE 57 NW 58	0°	"	655
"	"	903 200 703	TP-15	0°	"	703

42

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32
79
106

295
23
1124
1038
87

166
189

NE 67 NW 58
TR. 1S 48

1422
1316
106

242

242
295 — 2
537
295 — 3
~~242~~
832
295 — 4
1127
295
1422

SEC 57 WEC 58

RANCH HOUSE

242

537

NE 59 NW 60

— 3

842

SEC 59 WEC 60

832

— 4

TR. 1A 0.38
89

1427
189
1316

1038
89
1127

NE 61 NW 62

SEC 61 WEC 62

1422

1316
1127
189

1422
1316
106
501

1127
1038
89

1316
278
1038
537
501

1038
832
206

1427
1316
106

295
2
590
118
242
1024

~~287~~ 89

MOULINET
& MARTINEZ
HAWKINS
SALAS

TR.MK. REG. U.S. PAT. OFF.

Ac	B.S	R.I	FS	VORL	HOR	DIST
TR-1S	NE 59 NW 58	1442 / 1200 / 242	EEC 59 WEC 58	1°27'	180°	242
TR-1S	"	1158 / 500 / 658 / x2 / 1316	TR-2S	1°0'	180°	1316
TR-2S	"	650 / 400 / 250	TR-1AS	4°05'	180	-278
TR-1A	"	1500 / 1396 / 104 / x2 / 208	EEC 59 WEC 60	4°40'	180	206
"	"	1500 / 1000 / 500	NE59 NW60	0°	180°	500
				INSIDE	CORRALS	
"	"	400 / 300 / 100	NE61 NW62	173°50'	180	92 / -3 / 89
TR-2S	"	682 / 650 / 32	TR 3S	0°	180°	32
42 TR 3S	"	983 / 900 / 83	EC 61 WEC 62	19°20'	180°	74

106
32
74

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1021
32
989

1021
917
104

1345
1200
105
210

1021
917
104

295
37
332
295
627

917

1021
917
104

295
295
590

1440
1200
240
720

627
590
37

295
37
258

1021
295

627
590
37

89 60
88 17
1 43

6. TP23
TP35
32
14
107
295
295
37
258

917
290
627

1021
917
104

WCC 62
CZC 61

917

627

290

1200

TR-ZLAS

TR-AS

1500
1242
258

MOULINET
& MARTINEZ
SALAS
HAWKINS

TR.MK. REG. U.S. PAT. OFF.

Tie	BS	R.I.	FS	VERT ∠	HORZ ∠	DIST
TP-3S	NE 55 NW 56	400 400 1000	TP-4S	4°49'	180°	993
		WIND TOO STRONG TO TAKE GOOD READINGS				
		~~THURS~~				
TP-4S	TP-2S	1428 400 1028	TP-2S	1°50'	~~180°~~	-1021
TP-4S	"	~~NE 63~~ ~~NW 69~~ 1460 ~~1000~~ ~~460~~ 920	~~NE 63~~ ~~NW 61~~ WCR 62 CEO 61	3°34'	~~180°~~	-917
TP-4S	TP-2S	490 200 290	TP-4AS	1°43'	~~180°~~	-290
TP4AS	"	632 300 332	NE 63 NW 69	0°	~~180°~~	-332
"	"	1187 1150 37	EEC 63 WCC 64	0°	~~180°~~	-37
"	"	1500 1242 258	NE 65 NW 66	0°	180°	258

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258
37
295

332
37
295

258
332
590

917
590
327

290 1021
32
989

917
32
949

32
74
106

295
106
189

295
-32
263
295
558

295
12
283

283
162
121

69 60
263 26
6 34

279
38
12

121
295
416

295
13
282
295
577

1,510
910
600

608
577
31

295
31
264

TR.MK. REG. U.S. PAT. OFF.

TO	BS	R.I.	F.S.	Vert ∠	Horz ∠	DIST
TP-4S	TP-2S	1363 1100 263	EEC 65 WEC 66	0°	180°	263
"	"	1058 500 558	NE 67 NW 68	1°56'	180°	558
"	"	1070 500 570	TP-5S	1°56'	180°	570
TP-5S	"	564 400 164	~~EEC 67~~ ~~WEC 68~~ TP-6S	6°39'	180°	162
TP-6S	TP-5S	226 100 126	EEC 67 WEC 68	12°0'	180°	121
TP-6S	"	817 400 417	NE 69 NW 70	0°58'	180°	417
TP-6S	"	930 500 430	TP-7S	1°06'	180°	430
TP-7S	"	684 400 284	EEC 69 WEC 70	4°-15'	180°	282
"	"	1500 920 580	NE 71 NW 72	4°21'	180	577
"	"	912 300 612	TP-8S	4°25'	180°	608

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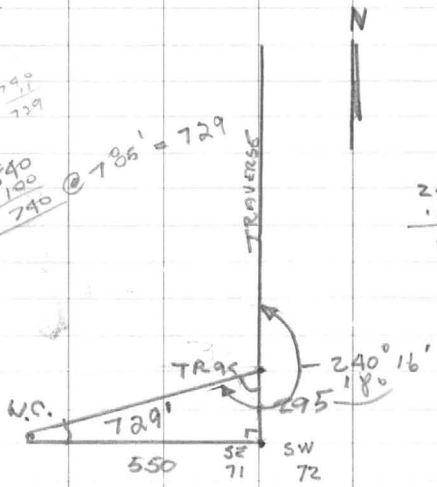
$$\begin{array}{r} 340 \\ 264 \\ \hline 76 \end{array} \qquad \begin{array}{r} 295 \\ 76 \\ \hline 219 \end{array}$$

TR.MK. REG. U.S. PAT. OFF.

At	B.S	R.I.	FS	VER ∠	HOR ∠	DIST
TR85	TR53	770 500 270	SEC. 71 NEC 72	8°-54'	180	264
TR85	"	1500 1160 340	TR95	0°	180°	340
TR95	"	621 400 221	SW72 SE71	5°-19'	180°	219

END THIS TRAVERSE



79°
11'
729

840
100
740 @ 1 86' = 729

240 16
180
60 16
×4 64

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#6

MOULINET
MARTINEZ
SALAS
HAWKINS

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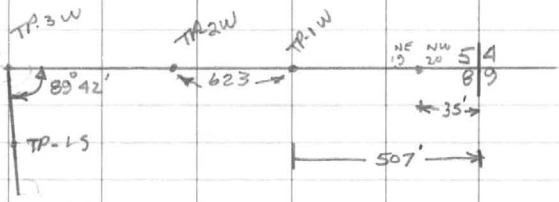
RERUN - DANS LINE

TRAVERSE WEST

T@	B.S.	R.I.	F.S	VERL	HORL	DIST
5/4 8/9	TP. ON HILL	8.08 300 508	TP-1W	2°55'	180°	507



TP.1W	5/4 8/9	625 200 625	TP.2W	3°36'	180°	623
TP.2W	"	628 300 328	TP.3W	6°51'	180°	323
TP.3W	"	565 500 65	NE2 NW19 3 FT S. OF TP.4W	7°02	180°	64
			60 SOUTH			
TP.4W	TP.3W	602 500 102	TP.1S	20°35	89°42'	89'
TP.1S	TP.4W	566 500 66	TP.2S	5°57'	180°	66
TP.2S	~~DEC 2 WEC 19~~ TP.1S	643 500 143	DEC 2 WEC 19	8°19'	180	140

THIS POINT IS 3.2' E. OF DANS PT.

— TUES —

TP.2S	TP.1S	935 500 435	NE4 NW21	2°10'	180°	435

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435
295
730

362
362
724

1533
750
783

1482
750
732

730
295
1025
295
1320
295
1615

71
9
62

295
62
233

1305
500
805
2
1210

122
40
822

233
295
528
295
823

295
105
180

MOULINET
MARTINEZ
HAWKINS

TR.MK. REG. U.S. PAT. OFF.

TO	B.S	R.I.	F.S.	VERL	HORL	DIST
TP-2S	TP-1S	1481 750 731	EEC 4 NEC 21	1°40'	180°	730
TP-2S	"	1426 400 1026	NE 6 NW 23	1°10'	180°	1025
TP-2S	"	1422 100 1322	EEC 6 NEC 23	2°03'	180	1321
TP-2S	"	1305 500 805 LINE ONLY 1610	TP 3S	3°47'	180	1606
TP-3S	TP-2S		NE 8 NW 25	CHAINED 9'		9
TP-3S	"	171 100 71	TP 4S	5°12'	180	71
TP-4S	"	733 500 233	EEC 8 NEC 25	0°	180°	233
TP-4S	"	628 100 528	NE 10 NW 27	0°	180°	528
"	"	1323 500 823	EEC 10 NEC 27	1°09'	180	823
EEC 10 NEC 27	TP-4S	1305 1200 105	TP 5S	0°	180°	105

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495
15
495
15
83

493
15
198180
295
475
295
770
295
1065

1368
300
1068

1093
1065
28
267
245

305
28
3335
28
307

284
21
267
28

267
295
562
295
857

288
285
21
264
28
292

623
28
651
60
591

623
563
60

TR.MK. REG. U.S. PAT. OFF.

Tag	BS	RI	FS	V ∠	H ∠	DIST
TR55	EEC 10 WEC 27	585 400 185	NE 12 NW 29	9°45	180°	180'
TR55	"	1500 1255 245 2 490	EEC 12 WEC 29	10°12'	180°	475'
TR55	"	1277 500 777	NE 14 NW 31	5°32'	180°	770
TR55	"	1500 402 1098	TR65	4°03'	180°	1093
TR55	"	1370 300 1070	EEC 14 WEC 31	4°04	180°	1065
TR65	"	588 300 288 .21 267	NE 16 NW 33	15°52'	180°	267
TR65	"	1143 500 643	TR75	10°07'	180°	623
"	"	690 100 590 27 ~~603~~ 563	EEC 16 WEC 33 ~~RESHOT~~	12°22'	180°	~~603~~ 563

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89 60
79 50
10 10

1142
505
642

657
300
357
353

627
353
269
28
297

89 60
84 12
5 48

623
563
60

295
60
235
295
530
295
825

1155
177
162
1489

89 60
70 09
19 51

TR.MK. REG. U.S. PAT. OFF.

AUG - 7 1968

CHECK SHOTS

TO	B.S.	R.I.	F.S.	VER. ∠	HORIZ ∠	DIST
TP-1S	TP-6S	1147 500 647	TP-6S	10°10'	180°	622
TP-7S	"	657 300 357	NE 16 NW 33	5°48'	180°	353
TP-7S	"	736 500 236	NE 18 NW 35	1°40'	180°	235
TP-7S	"	1433 900 533	SE 18 SW 35	5°12'	180°	530
TP-7S	"	1325 500 825	SE 18 SW 35	1°1'	180°	825
		6° EAST				
SE 18 SW 39	"	695 500 195 23 172	TP-1E	19°51'	180°	172
TP-1E	"	862 700 162	TP-2E	3°06'	180°	162
		1455 300 1155		0°43'		

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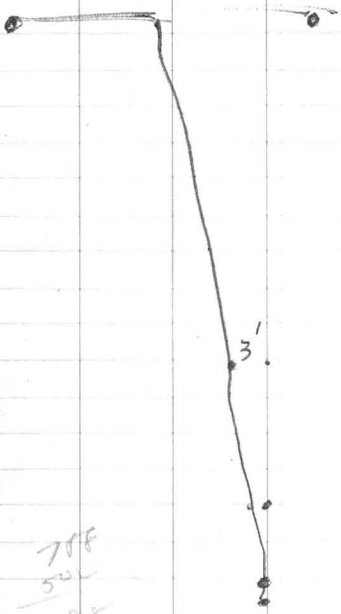
21648
870



537
64
473
549
482
1504

1494

11

788
500
288

#1

MOULINET
MARTINEZ
SALAS
HAWKINS

TR.MK. REG. U.S. PAT. OFF.
AUG-9, 1968

T@	B.S.	R.I	F.S.	VERT ∠	HOR ∠	DIST
TP-3W	5/4 / 80	745 / 200 / 545 / 8 / 537	TP-5W	7°15'	180°	537
TP-5W	"	1285 / 600 / 685	TP-6W	26°48'	180	549
TP-6W	"	782 / 300 / 482	TP-7W	1°23'	180°	482
TP-7W	TP 6W	~~NW 2~~ / ~~NE 1~~	→	0°	—	-10'
NE 1 / NW 2	601 / 300 / 301	687 / 400 / 287		8°19' / ~~35~~		~~281~~
NE 1 / NW 2	TP6W	601 / 300 / 301	~~NE 2~~ / ~~NW 1~~	8°19'	270°17'	295
"	"	617 / 500 / 117	TP-8W	2°52'	180°	117
TP-8W	"	1500 / 070 / 1430	SEE CALC	10°34'	180°	1382

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295
590
885

590
1180

1243
65
1178

230
590
820 TP

230
590
820

820
734
86

1243
734
391
96
2484

590
86
676
391
285
96
189

TR.MK. REG. U.S. PAT. OFF.

Π@	BS	R.I	FS	VERT	HOR	DIS
5/8	TR&W	705 400 305	WEC 1	10°20'	89°42'	295
"	"	1095 200 895	WEC 3	5°58'	89°42' ~~[illegible]~~°	885
"	"	1500 248 1252	TP 15	4°47'	"	1243
TP 15	6 | 5/8	1135 900 235	WEC 5	8°24'	180°	230
TP 15		1242 500 742 734	TP 25	5°57'	180°	734
TP 25	TP 15	915 800 115	WEC 7	9°40'	180° —	102 -16 86
TP 25	"	692 400 292	TP 35	2°08'	180°	291
TP 35	"	1096 1000 96	TP 45	0°	180°	96

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289
~~295~~

289
590
879

1380
590
880
590
1470
1328
142

1028
880
148

54
66
324
324
3564
35.64

295
147
295
442
590
1032
743
289
91
198
590
788

TR.MK. REG. U.S. PAT. OFF.

TO	BS	RI	FS	Vert ∠	Horz ∠	DIST
TP-45	TP25	794 500 294	WEC 9	7°11'	180	289
TP45	"	1380 500 880	WEC 11	0°12'	180°	880
TP45	"	1328 300 1028	TP55	0°06'	180°	1028
TP55	"	542 100 442	WEC 13	0°55'	180°	442
TP55	"	1245 500 745	TP65	2°46'	180°	743
~~TP~~	~~TP15~~	~~1437~~ ~~1200~~ ~~237~~		~~8°00'~~	~~180°~~	
TP65	TP15	592 500 92	TP75	4°40'	180°	91
TP75	TP65	603 400 203	WEC 15	10°01'	180°	197
TP75	"	1492 700 792	WEC 17	4°10'	180°	788
TP75	"	1480 700 780	TP85	4°28'	180°	TIP

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$$\begin{array}{r} 411 \\ 429 \\ 37 \\ \hline 477 \end{array}$$

$$\begin{array}{r} 2640 \\ 1273 \\ \hline 1367 \end{array}$$

$$\begin{array}{r} 429 \\ 11 \\ \hline 18 \end{array}$$

8

MOULINE
MARTINEZ
HAWKINS
SALAS

TR.MK. REG. U.S. PAT. OFF.

At@	B.S. LINE	R.I OF LOC	F.S GO SOUTH FROM	VER ∠	HOR ∠ HERE	DIST
TR14E	TR13E	1485 900 585 2 117°	TR15E	4°46'	180°	1162
TR15E	TR-11E	628 300 328	TR16E	1°53'	180	328
"	"	1300 500 800	TR 16E	9°33'	180°	778
TR16	"	778 500 278	TR17E	6°17'	180°	275
TR17	"	740 500 240	TR18E	13°12'	180°	227
TR18E	TR17E	604 500 104	TR19E	15°17'	180°	97
TR19E	TR18E	650 500 150	TR20E	16°05'	180°	138
TR20	TR18	912 500 412	TR21	16°33'	180°	378
TR21	"	579 500 79	TR21A	12°20'	180	-75

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1500
1303
197

602
555
47
55
102

295
102
193

338
97
441
138
303

560
7
553

379
303
75

261
295
556

295
31
261

620
155
775
295
480

MOULINET
MARTINEZ
HAWKINS
SALAS

TR.MK. REG. U.S. PAT. OFF.

TO	B.S	R.I.	F.S.	VAL	HAL	DIST
TP-20	TP-19	553 400 153	TP-15	2°49'	270°7	153
TP-15	TP-20	1170 500 770	~~EEC 103~~ ~~WEC 104~~	15°31'	180°	720
EEC 103 WEC 104	TP-15	~~NE 105~~ ~~NW 106~~ 716 400 316	NE 103 NW 104	14°42'	~~180°~~ 0°	-296
EEC 103 WEC 104	"	797 500 297	NE 105 NW 106	4°51'	180°	295
"	"	1285 1000 285 2 570	~~EEC 105~~ WEC 106	2°22'	180°	590
"	"	1425 1000 425 2 850	~~NE 107~~ ~~NW 108~~ TP-25	1°36'	180°	849
TP-25	"	636 600 36	NE 107 NW 108	0°	180°	36
"	"	1448 1200 248	TP-35	0°	180°	248
TP-35	"	183 100 83	EEC 107 WEC 108	0°	180°	83

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295
188
107

295
107
402

355

555
402
153

295
153
142

69 60
252 09
17 56

160
900
160

269 60
253 22
16 38

MOULINET
MARTINEZ
SALAS
HAWKINS

TR.MK. REG. U.S. PAT. OFF.

TR@	B.S.	R.I.	F.S	VERT'L	HOR'L	DIST
EEC 107 WEC 108	TP-15	1288 1100 188	TP-45	0°	180°	188'
TP-45	"	912 800 112	NE 109 NW 110	10°25'	180°	108
TP-45	"	~~[illegible]~~ 502 100 402	EEC 109 WEC 110	0°	180°	402
TP-45	"	760 200 560	TP-55	5°10'	180°	555
TP-55	"	925 800 125	~~SE 109~~ ~~SW 110~~ FENCE LINE	17°56'	180°	113
TP-55	"	655 400 155	SE 109 SW 110	16°40'	180°	142

END TRAVERSE
DROPPED CLAIMS 131 & 132

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TP1

1162
328
1490

#9

480
167
313

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TO	B.S	R.I	FS	VERT ∠	HORZ ∠	DIST
TR21A	TR21	770 600 170	TR15	6°0'	180°	1/267
TR15	TR21A	812 500 312	NE113 NW114	2°57'	180°	312
"	"	847 500 347	TR25	3°25'	180°	346 12 34
TR25	TR15	782 500 282	~~EEC~~ 113 WEC114	16°01	180	261
TR25	"	1500 938 562 7 555	NE115 NW116	6°31	180	555
TR25	"	1308 700 608	TP35	5°34'	180°	602
TR35		855 800 55	TR45	0°	180°	55'
		TI - BROKE THUR				
TR45	TR35	1750 1540 210 17 193	EEC115 WEC116	16°20'	180°	193
TR	TR				180°	

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TRIGHT & LEFAX, PHILADELPHIA, PA. 19132

1500
1205
295

1270
550
720

1410
500
910

1045
500
545

193
295
488
190

1385
500
885

115 116

117 118

295
295
590
295
885

295
187
108
65
43
295
338
295
633

082
295
0121

MOULINET
MARTINEZ
HAWKINS

AUG 15, 1968

TO	B.S	R.I	F.S	VERT	HORZ	DIST
TP45	TP-35	988 500 488	NE 117 NW 118	2°20'	180°	488
		615 300 315 21 294		14°55	180	
NE 117 NW 118	TP-25	*	EEC 119 WEC 118	14°55'	180°	294
"	"	1500 1205 295 2 590	NE 119 NW 120	0°	180°	590
"	"	1390 500 890	EEC 119 WEC 120	3°20'	180°	886
EEC 119 WEC 120	"	590 400 190	TP-55	6°50'	180°	187
TP-55	"	1500 1435 65	TP65	0°	180°	65
TP65	TP65	550 500 50	NE 121 NW 122	21°20'	180°	43
TP65	"	895 500 395	EEC 121 WEC 122	22°10'	180°	339

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398
78
15
779

370
780

795
780

1500
393
7207

390

1890
890
610

339
295
634
295
929
855
74
295
369
188
181
295
416
295
711
295
1066
823
243
52

485
29
456

1288
639

823
771
52

1248
50
748

TR.MK. REG. U.S. PAT. OFF.

TT@	BS	R.I.	F.S	VERT	HORZ	DIST
TP-65	TP-55	1145 500 645	NE123 NW124	7°05	180	635
TP65	TP55	1155 300 855	TP-75	0°	180°	855
TP-75	TP65	1500 1427 75	EC 123 WC124	0°	180°	75
TP-75	"	694 500 194	TP-85	10°20'	180	188
TP-85	TP-75	705 500 205	NE 125 NW 126	20°10'	180	180
TP85	"	1500 990 510	EC 125 126	15°10'	180'	475
TP85	"	1500 1207 393 2 786	NE 127 NW 128	8°0'	180°	771
TP85	"	1500 1075 420 840 2 1 823	TP-95	7°30'	180	823

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$$\begin{array}{r} 243 \\ 62 \\ \hline 181 \end{array}$$

$$\begin{array}{r} 180 \\ 295 \\ \hline 475 \end{array}$$

$$\begin{array}{r} 1500 \\ 1028 \\ \hline 472 \end{array}$$

TR.MK. REG. U.S. PAT. OFF.

TR	BS	RI	FS	VAL	HAL	DIST
TP85	TP75	1262 1200 62	TP95	0°	180°	62
TP95		716 500 216	EEC127 WEC128	24°05'	180°	180
TP95	T	1500 1025 475	SE127 SW128	2°10'	180	475'

END TRAVERSE GOOD

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570
28
542

485
2
970

~~485~~
~~2~~
~~969~~

75
542
617

970
75
1045
196
1241
123
1364
10

1490
1045
445
196
249

4

1486
1364
116

167
312
479

#10

TP21A Start
N-S Loc. Line

BTO - 10-15

MOULINET
& MARTINEZ
SALAS
HAWKINS

FRI - AUG 16
1968

To	B.S	R.I	F.S	Vert	Horz	Dist
TP21	TP21A	1070 500 570	TP22	12°30'	180°	542
"	"		TP22	~~18°05'~~ 17°50'	180°	970
		1500 965 535 2 1070				
TP22	—	1196 1000 196	TP23	0°	180°	196
TP23	TP22	1235 1100 135	TP24	19°05'	180	123
TP24	TP23	638 500 138	TP25	23°05'	180	117
	~~970~~					

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$$\begin{array}{r} 1490 \\ \times\ 2 \\ \hline 2980 \end{array}$$

$$\begin{array}{r} 1940 \\ 1490 \\ \hline 450 \end{array} \checkmark$$

$$\begin{array}{r} 1162 \\ 778 \\ \hline 1940 \\ 275 \\ 227 \\ \hline 2442 \end{array}$$

$$\begin{array}{r} 1162 \\ 328 \\ \hline 1490 \end{array}$$

$$\begin{array}{r} 1162 \\ 778 \\ 275 \\ 227 \\ 91 \\ 138 \\ 378 \\ \hline 3055 \\ 75 \\ \hline 2980 \end{array}$$

$$\begin{array}{r} 450 \\ 275 \\ 227 \\ \hline 952 \end{array}$$

$$\cancel{\begin{array}{r} 2980 \\ 2442 \\ \hline 538 \end{array}}$$

$$\begin{array}{r} 2980 \\ 2442 \\ \hline 538 \end{array} \longleftrightarrow \begin{array}{r} 1490 \\ 952 \\ \hline 538 \end{array}$$

$$\begin{array}{r} 269 \\ 254 \\ \hline 15 \end{array} \quad \begin{array}{r} 60 \\ 43 \\ \hline 17 \end{array}$$

$$\begin{array}{r} 1490 \\ \times\ 2 \\ \hline 2980 \end{array}$$

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385
2
770

152

~~479~~
480
016
264
135
129

216
135
130
481

1500
1075
425

130
095
425
295
120

1480
850
630

590

710
590
120

120
78
198

295
198
97

TM MOULINE
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TRAVERSE SOUTH

TR	B.S	R.I.	F.S.	VERL	HORL	DIST
TR25	TR24	720 500 220	TR15	7°35'	270°17'	216
TR15	TR25E	1148 1000 148	TR25	17°0'	180°	135
TR25	TR15	655 500 155	NE 114	23°10'	180°	130
TR25	"	985 500 485	EEC 114	20°40'	180°	425
TR25	"	1380 1000 380 2 760	NE 116	13°40'	180°	720
NE116	"	605 300 305	EEC 116	10°10'	180°	295
"	"	1500 1205 295 2 590	NE 118	0°	180°	590
"	"	1355 1000 355 2 710	TR35	1°50'	180°	710
TR35	"	1478 1400 78	TR45	0°	180°	78

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708
300
408

6 4

710
10
9

295
97
392

405
16
91

415
16
399
3

405
16
389

1145
185

1195

205

392
295
687

150

1445
900
545

570
295
885
672
213

295
82
213

672
590
82

MOULINET
MARTINEZ
HAWKINS
SALAS

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To	B.S.	RI	F.S	VERT	HORZ	DIST
TP45	TP45	607 500 107	EEC 118	15°40'	180°	91'
TP45	TP15	710 300 410	NE 120	11°30'	180	390'
TP45	"	1195 500 695	EEC 120	6°20'	180	687
EEC 120	"	1500 1350 150 2 300	NE 122	6°30'	180°	294'
EEC 120	"	1090 500 590	EEC 122	1°40'	180°	590
EEC 122	"	1500 1203 297	NE 24	3°20'	180°	296
"	"	1490 900 590	EEC 124	0°55'	180°	590
"	"	1472 800 672	TP-55	6°40'	180°	672
TP55	"	1118 900 218	NE 126	8°20'	180°	213

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213
295
508
295
803
749
54

523
15

258
54
204

295
204
91
295
386

1180
800
380

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ϕ	MARTINEZ
	HAWKINS
	SALAS

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⊼ @	B.S	R.I.	F.S	VERT	HORZ	DIST
TP55	TP-15	10.10 5.00 5.10	EEC 128	3° 20'	180°	508
TP55	"	1350 500 750	TP65	2° 05'	180°	749
TP65	"	566 500 66	NE 128	23° 30'	180°	55
TP65	"	760 500 260	TP-75	4° 10'	180°	258
TP-75	"	1492 1400 92	EEC 128	4° 05'	180°	92'
TP-75		1190 800 390	SEE 128	4° 20'	180°	388

END THIS TRAVERSE

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665

1165
600
565

167
312
479

480

480
295
775
707
68
295
363

665

590
464
126

385
17
368

380
17
363
295
658
295
953

295
169
126

464
295
169

#11.

MONZINET
MARTINEZ
SPLAS
HARO RINS

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SAT AUG 17

NO	BS	R.I	FS	VERL	HORL	DIST
TP-16E	TP14E	980 500 480	NE 104 NW 113	1°55'	180	480'
"	"	1210 500 710	~~EEC 104~~ ~~WEC 113~~ TP 15	3°30'	180°	707
TP-15	TP-16E	574 500 74	EEC 104 WEC 113	15°20'	180°	68
TP-15	TP-16E	880 500 380 17 363	NE 106 NW 115	12°10'	180°	363
TP-15	"	1165 500 665 8 657	EEC 106 WEC 115	6°20'	180°	657
TP-15	"	1455 500 955	NE 108 NW 117	2°50'	180°	953
NE 108 NW 117	TP-15	1495 1200 295	EEC 108 WEC 117	0°40'	180°	295
EEC 108 WEC 117	"	1300 1000 300	NE 110 NW 119	6°50'	180°	296
"	"	1465 1000 465	TP-25	3°10'	180°	464

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295
125
420
295
715
570
145
295
440
295
735
660
75

590
295
885

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& MARTINEZ
SALAS
HAWKINS

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T@	B.S	R.I	F.S	VERT	HOR ∠	DIST
TP-25	TP-15	628 500 128	~~SE 110~~ WEC 119	6°10'	180°	125
"	"	922 500 422	~~NE TP~~ ~~NW 119~~ SE 110 SW 119	4°10'	180°	420
"	"	870 300 570	TP-35	0°	180°	570'
TP35	TP-15	1397 1200 197	[redacted] WEC 124	6°05'	180°	145
TP35	"	742 300 442	[redacted] NW 123	3°01'	180°	441
"	"	1160 500 660	TP45	1°50'	180	660
TP45	"	576 500 76	[redacted] WEC 123	6°30'	180°	75'
WEC 123	TP45	1500 1185 315 21 294	NW 125	15°10'	180°	294
"	"	1390 800 590	WEC 125	2°10'	180°	590

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1395
21
74

1396
21
1369

1375
21
54

590
295
885

294
9
895

295
9
286

215
9
224

295
224
71
295
366

295
72
367
54
1

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& MARTINEZ
HAWKINS
SALAS

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π@	B.S.	R.I.	F.S	VERTZ	HORZ	DIST
WEC123	TP 45	1404 500 904	TP-55 ~~NE127~~	5°40'	180°	895
WEC123	"	1395 500 895	NE 127	5°35'	180	886
NE127	TP-15	1415 1200 215	TP-65	0°	180°	215
TP-55	NE127	574 500 74	WEC 127	12°0'	180°	72
TP55	"	1390 1000 390 22 368	SW 127	13°50'	180°	368

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1180
295
1475

312
286
26

295
26
269

480
196
284

26
269
295
50
282
13
269
345
295
590
129
619
42
761
126
5887
419
12106
126
1180

319
269
50

295
50
245
295
540

295
129
166
42
124

668
539
129

885
295
1180

MOLINET
MARTINEZ
HAWKINS
SALAS

SUN AUG 18

TM@	BS	R.I.	FS	VERT	HOR	DIST
TR-17E	SEC COR	1500 1195 305	TR ?	0°	180°	305
TR?	TR-17E	910 700 210 -14 196	~~TR9~~ ~~TR15~~ TR 15	15°10'	~~0°0'~~ 89°43'	
TR-15	TR ?	786 500 286	NE103	0°	180°	286
TR-15	"	1412 1100 312	TR-25	0°	180°	312
TR-25		757 500 257	WEC 103	12°40'	180°	269
TR-25	"	1020 700 320	TR-35	13°05'	180	319
TR-35	TR25	774 500 274	NE105	19°05	180	245
TR-35	"	1042 500 542	WEC105	4°20'	180°	539
TR-35	"	1168 500 668	TR-45	0°	180°	668

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1210
500
710

435
22
413

880
200
680

124
295
419

400
295
715

500
130
370
740

1432

860
715
145

295
145
150
33
117
295
412

1422
21

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HAWKINS

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TR@	B.S	R.I	F.S	VER'L	HORL	DIST
TR45	TR35	1342 / 1300 / 42	TR65	0°	180°	42
TR55	TR45	455 / 300	NE107	25°05'	180°	126
TR55	"	995 / 500 / 495	~~TR55~~ EC 107	23°10'	180°	480
TR55	"	370 / 230 / 370 / 2 / 74°	NE109	9°20'	180°	720
					CH	- 5
						715
TR55	"	1365 / 500 / 865	TR65	4°30'	180	860
TR65	"	833 / 800 / 33	TR75	0°	180	33
TR75	"	1425 / 1300 / 125	EC 109	14°05'	180	117
TR75	"	1435 / 1000 / 435	SW 109	13°0'	180°	413'

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TUES AUG-13 1968

CHECK LS & DISTS.

TRO	B.S	RI	FS	VERT'L	HORZ	DIST
4 3/110	4/9 10	—	TP-12E	—	270° 17'	—
TP13	TP12E	—	TP13E	—	—	—

LINE OK TO TP-11E
CONTINUE EAST

TP13	"		TP14E	2°42'	180°	411
"	"		TP15E	2°50'	180	429
TP15E	TP14		1/4 CORR	0°	180	37
TP15E	TP15E	145 / 13.15 / 300 / 1015	TP16E	0°	180°	1015
TP15E	"	1410 / 300 / 1110	TP17E	2°08'	180°	1108
TP17E	TP15E	274 / 250 / 24	TP18E	0°	180°	24
TP18E	TP15E	581 / 500 / 81	TP19E	26°01'	180°	72
TP19E	TP18E	845 / 700 / 145	TP20E	26°26'	180°	116

START LOC LINE SO

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HAWKINS

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AUG - 12, 1968

T @	B.S.	C.T.	F.S.	VERT ∠	HORZ	DIST
TR 13E	TR 12E	1500 1088 412	TR 14E	2°42'	180°	411 ✓
TR 13E 13	"	1415 1200 215 2 430	TR 15E	2°50'	180	429 ✓ 1.8
TR 15E	TR 14E	1237 1200 37	1/4 COR 3 10	0°	180°	37'
~~TR 1/4~~ COR	—	1020 050 970	TR 16E	0°	180°	970°
TR 16	TR 13E	1018 900 118	TR 17E	25°50'	180	95'
TR 14E	TR 12E	945 900 45	TR 15E	2°40'	180	44
TR 15E	TR 14E	1200 1000 200	TR 16E	25°05'	180°	164

THIS POINT START N-S
LINE CARMEN LOC 101-102

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269 [illegible]
299 59

20 [illegible]

269 40
293 38
26

26

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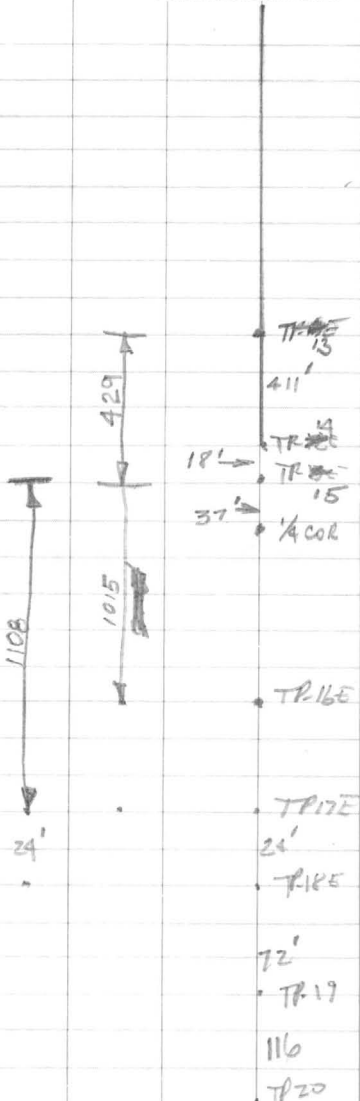
411
18
429
10 15
1441

164
44
95
403



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316

285
70

475

870

2669 60
2542 9
1531

8960
7531
1429

75
285
19

295
212
83

390
295
885
849
36

142

248
36
212

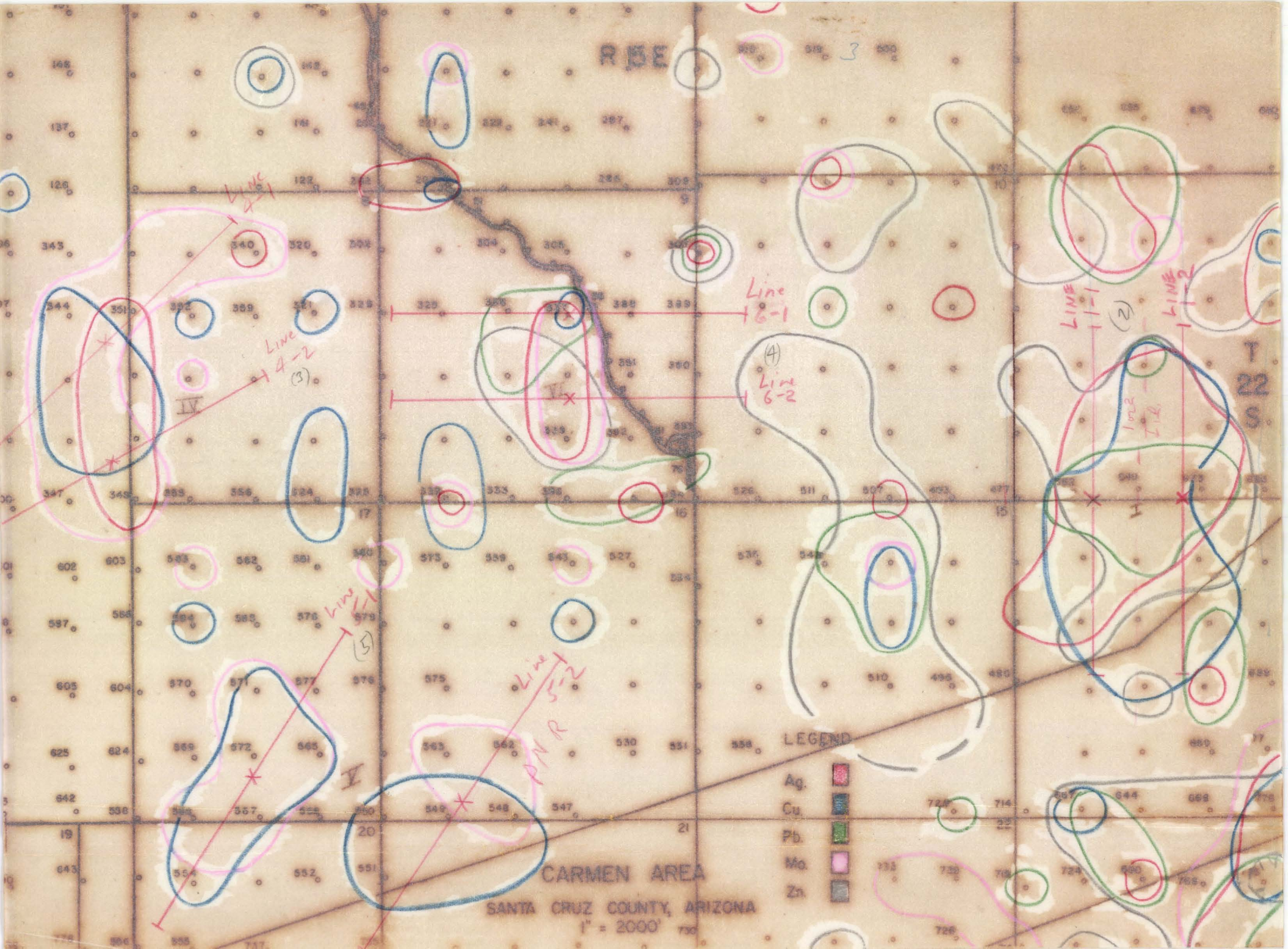
HEINRICHS

GEOEX

GEOPHYSICAL ENGINEERS

TUCSON, ARIZONA

T 22 S
R 15 E
Ag.
Cu.
Pb.
Mo.
Zn.
LINE 2-1
LINE 2-2
LINE 2-3
CARMEN AREA
SANTA CRUZ COUNTY, ARIZONA
1" = 2000'


R 15 E
T 22 S
Line 4-1
Line 4-2
Line 6-1
Line 6-2
Line 5-1
Line 5-2
Line 1-1
Line 1-2
LINE 1-1
LINE 1-2
(1)
(2)
(3)
(4)
(5)
IV
V
LEGEND
Ag.
Cu.
Pb.
Mo.
Zn.
CARMEN AREA
SANTA CRUZ COUNTY, ARIZONA
1" = 2000'

INDUCED POLARIZATION, RESISTIVITY AND SELF POTENTIAL ELECTRICAL GEOPHYSICAL SURVEY

CARMEN AREA

SANTA CRUZ COUNTY

ARIZONA

For

Geochemical Surveys

September 1968

By

Heinrichs Geoexploration Company
P. O. Box 5671 Tucson, Arizona 85703
Phone: 623-0578 Area Code: 602

TABLE OF CONTENTS

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INDEX MAP	
INTRODUCTION	1
CONCLUSIONS AND RECOMMENDATIONS	3
INTERPRETATION	5

IN MAP POCKET: (total 15 pieces)

General Induced Polarization Location Plan
Induced Polarization Location and Interpretation Plan Carmen Areas 1 and 2

Sectional Data Sheets (all a=500')

Line 1-1, Spreads 1 and 2
Line 1-2, Spreads 1 and 2
Line 1-3, Spread 1
Line 1-4, Spread 1
Line 2-1, Spreads 1 and 2
Line 2-2, Spreads 1 and 2
Line 2-3, Spreads 1 and 2
Line 3-1, Spread 1
Line 4-1, Spread 1
Line 4-2, Spread 1
Line 5-1, Spread 1
Line 6-1, Spread 1
Line 6-2, Spread 1

GENERAL LOCATION MAP OF CARMEN AREA FOR GEOCHEMICAL SURVEYS

ARIZONA

HEINRICHS
GEOEXPLORATION COMPANY
BOX 5671 TUCSON, ARIZONA 85703
PH: 602/623-0578 CABLE: GEOEX, TUCSON
GEOPHYSICAL ENGINEERS SYDNEY VANCOUVER

INTRODUCTION

At the request of Mr. W. R. Ransone of Geochemical Surveys, Heinrichs Geoexploration Company conducted a reconnaissance induced polarization (I. P.), resistivity and self potential geophysical survey over parts of the Carmen Area near Patagonia, Santa Cruz County, Arizona. This field work was done during the interim July 23 to September 5, 1968.

Six areas in the general Carmen Area were surveyed and given numbers one through six. Line numbers have been prefixed by their area numbers. Two plans are attached, one showing the location of all lines run and the geochemical copper and molybdenum anomalism at a scale of 1" = 2,000'. The other map shows the location and interpretation of the I. P. data of Areas 1 and 2, the only significantly anomalous areas, at a scale of 1" = 1,000'.

A total of 13 lines were run made up of 21 spreads. This gives a total surface coverage of 95,000 feet of which 62,750 feet is subsurface plotted data. All of the lines were run on a 500 foot dipole spacing. For details of line orientation and location see the attached plans.

The dual frequency system of the induced polarization technique was used on the survey and utilized sending frequencies of 0.05 and 3.0 Hz. The electrode configuration used was the collinear dipole-dipole array which on a 500 foot dipole spacing typically gives resolvable penetration within the zone from about 150 feet to 600 or 750 feet below surface.

The purpose of this combined geophysical survey was to help determine the economic mineral potential, particularly as to sulfide or other polarizable content, of several multi-element at or near suface sampling geochemical anomalies delineated in the area in prior work done by Geochemical Surveys personnel. Also, certain electrically responsive geologic structures were outlined and analyzed.

The data are presented on Sectional Data Sheets, one for each line showing resistivity, percent frequency effect (PFE) and metallic conduction factor (MCF) contoured in section and self potential (SP) in profile form. An interpretation plan is attached and shows the surface projected I. P. anomalism.

Heinrichs personnel involved in the field work were R. Palmer, Geophysical Crew Chief, G. Hix, and D. Erickson, technical assistants. Report compilation and interpretation by Chris S. Ludwig, Senior Geophysicist with the assistance of the Tucson Geoex staff.

CONCLUSIONS AND RECOMMENDATIONS

Of the six areas covered with I. P., only Areas 1 and 2 show anomalous response. Areas 3 through 6 show only minor background polarization variations although several lines did show interesting resistivity features. No significant self potential anomalism was seen on any of the lines.

The I. P. anomalism in Areas 1 and 2 is quite complex but not strong. The very strongest I. P. response is considered moderate and suggests from about 1 to 3 percent by volume (about 2 to 6 percent by weight) total polarizable material across the width indicated. The strenght of response together with a lack of any important self potential anomalism suggests the possibility of a non-sulfide source of this response. Considerable manganese oxide has been seen in the area and manganese oxides will respond weakly to I. P. Also, under some circumstances, clays will give an I. P. effect.

In any event, considering the good correlation of the I. P. response with the geochemical anomalism, several test drill holes are recommended to determine the economic significance of the most interesting anomalism. The drilling should all be vertical and to at least 500 feet depth.

A hole is recommended about 700 feet west of ON/S Line 1-2 to test an east-west trending weak to moderate I. P. zone seen on all four Area 1 lines and correlating well with a multi-element geochemical anomaly. If this drilling proves interesting, a hole at ON/S Line 1-3 would further test this E-W I. P. trend.

A drill hole is suggested near 26.3 N on Line 1-2 to sample a complex I. P. anomaly of moderate strength on the fringe of a multi-element geochemical anomaly.

In Area 2, drilling is recommended at 1.3 S Line 2-2 to test an east-west trending moderate strength I. P. anomaly correlating with an east-west trending copper-zinc geochemical anomaly. Near 12.5 N Line 2-2 a hole is recommended to sample a moderate I. P. anomaly correlating with a lead, silver, molybdenum and zinc anomaly.

If any of this preliminary drilling proves encouraging, there are other similar strength and character I. P. anomalies in Areas 1 and 2 that could be sampled. More detailed I. P. may be advisable before much additional drilling is undertaken since the work to date has been of a reconnissance nature. Also, there are several open-ended anomalies.

It is recommended that we be kept closely informed of these preliminary drill results to upgrade and refine the interpretation and help guide any future drilling. Also, it is recommended that representative samples of drill core be sent to us for laboratory testing of their electrical properties to help verify intersection of the polarizable source.

INTERPRETATION

AREA 1

Line 1-1, Spreads 1 and 2

This line is weakly to very weakly anomalous over its entire length. The strongest zones are seen from about 5 S to 2.5 N, 10 N to 15 N and 32.5 N to 42.5 N and are classified as weak. These weak anomalies probably represent about one percent total polarizable material across the indicated zones.

The pattern of anomalism is quite complex and not very distinct. This type of response could be due to numerous thin veins of polarizable material crossing the line, too closely spaced to be individually resolved or perhaps due to varying degrees of disseminated mineralization..

Some of the response appears to result from shallow sources, others from a rather deep source, particularly the deep response seen from 10 N to 30 N.

There is some minor resistivity variation but no simple correlation with the I. P. response. There is no important self potential response thereby indicating a lack of large quantities of interconnected.activity oxidizing sulfides within several hundred feet of the surface. This lack of self potential response is not in opposition with the I. P. results since the I. P. suggests rather low concentration, non-interconnected polarizable zones.

Line 1-2, Spreads 1 and 2

Again, the line is anomalous over its entire length and ranges from very weak to moderate in strength. Moderate anomalism is noted from 22.5 N to 30 N and north of 55 N for an indeterminate distance. Weak I. P. response is seen between these two moderate anomalies and south of the southern anomaly to 15 N where the response is very weak. A well defined shallow and narrow but weak anomaly is noted near ON/S south of which is very weak response.

The two moderate anomalies appear to result from fairly deep sources, say 500 feet. The northern moderate anomaly shows the strongest frequency effects noted on this project, however, the resistivity is relatively high so the metallic conduction factors are only moderate. This anomaly should be crossed by extending the line further north if the area is still of interest after preliminary drilling.

The resistivity shows only minor variation except for a fairly strong increase on the north end of the line. There is no obvious correlation between the I. P. response and the apparent resistivity. Again there is no significant self potential anomalism along the line.

Line 1-3

The resistivity on this line is quite low compared to the other three lines and may indicate more alteration or simply a more conductive rock type. There is a shallow moderate I. P. anomaly between 2.5 S and 5 N correlating with a relative resistivity low. There is an indication that this anomaly continues at depth to the south.

Another moderately anomalous zone is seen on the north end but with an indefinite extent to the north because of insufficient coverage. The remainder of the spread shows weak I. P. effects with no distinctive pattern. There are no significant self potential variations noted on the line.

Line 1-4

Two zone of moderately strong I. P. response appear, one from about 5 S to 2.5 N and one near 15 S. These two zones are possibly connected at depth. Neither anomaly appears to have very good depth extent, perhaps bottoming on the order of 500 feet below surface. The anomaly between 5 S and 2.5 N correlates well with a pronounced resistivity low and a very minor self potential low near ON/S. Weak I. P. anomalism persists indefinitely off both the north and south ends of the line.

AREA 2

Line 2-1, Spreads 1 and 2

Moderate polarization response is seen from 5 N to 10 N with about 1,000 feet of weak fringing response to the north and south. The moderate anomaly appears to increase in strength with depth suggesting a limited depth extent source. A fairly definite cut off is seen near 7.5 S indicating the southern limit of I. P. response.

The resistivity shows an increase with depth, suggestive of decreased alteration or weathering with depth. Several very minor, probably not significant, self potential lows are noted near 15 N and 50 N neither correlating with a discrete I. P. anomaly although both are within zones of minor I. P. response.

Line 2-2, Spreads 1 and 2

Moderate strength I. P. effects are observed near 2.5 S, 12.5 N, and 37.5 N and all three having a considerable width of weak to very weak fringing anomalism. All three of these anomalies appear shallow, well within 500 feet of the surface, and have fair depth persistance, say in excess of 500 feet below surface. The I. P. anomalies near 2.5 S and 37.5 N both have associated resistivity lows whereas the 12.5 N anomaly is within a zone of uniform resistivity. South of 22.5 S, the polarization appears to increase to background indicating the southern limit of anomalism.

The self potential is quite flat except for a level change near 2.5 N perhaps indicative of a structural change in that vicinity. There is no supporting resistivity change, however.

Line 2-3, Spreads 1 and 2

The majority of this line shows only minor background variations in the polarization response. Very weak I. P. effects are noted north of 47.5 N. A very weak anomaly of questinable significance is noted near 5 S and appears to

have a source deeper than 500 feet and may be related to an eastern extention of the moderate anomaly near 2.5 S Line 2-2.

The general lack of I. P. response along this line indicates a major geologic change between Lines 2-2 and 2-3 in that Line 2-2 shows anomalism along its entire length. Either there is a structural or geologic change between the two lines or the mineralized horizon deepens below the detectivility of Line 2-3.

From about ON/S to 35 N, there is a pronounced two layer resistivity condition with the near surface layer being more conductive than the deeper layer. This condition implies a conductive overburden or volcanic flows or perhaps a very strong near surface weathering effect. There is no significant self potential variation on the line.

AREA 3

Line 3-1

No anomalous I. P. effects are noted along this line suggesting a non-sulfide source of the geochemical copper anomalism or a source removed from this line.

The resistivity indicates a fairly complex electrical structure but with no feature obviously correlating with the geochemical anomalism. The self potentials show background variations only.

AREA 4

Line 4-1

Slightly higher than average background response is seen at depth along the line but is not considered indicative of important concentrations of sulfide. There is a resistivity low between 0 NE/SW and 5 SW that may be important geologically or structurally and is within the copper-molybdenum geochemical anomaly. The self potential is quite flat along the entire traverse.

Line 4-2

Except for a resistivity low coming from a source at depth below 12.5 SW, the resistivity is quite high, for this area, suggesting a relatively tight and fresh rock type. The resistivity low may correlate with the low seen near the center of Line 4-1. The polarization response is background in strenght. There is no significant self potential variation either.

AREA 5

Line 5-1

Only background I. P. effects are seen on the line. However, there is a strong resistivity low near 2.5 NE that may represent a conductive shear or fault zone with little or no sulfide. This conductive zone may be mineralized and could be responsible in part for the geochemical anomalism located in this area. The rest of the line shows quite high resistivity. There is no important self potential response along the line.

AREA 6

Line 6-1

The resistivity is moderately high and quite variable. There is a pronounced near surface resistivity high near 2.5 W and a definite low near 5E. There is no significantly anomalous I. P. or self potential variation noted anywhere on the line. The geochemical anomalism could be related to the structure causing the resistivity high and/or low zone seen near the center of the line.

Line 6-2

No anomalous I. P. effects are observed on this line. East of above 10 W the resistivity is rather uniform. laterally and with depth. There is a resistivity high near station 20 W resulting from a narrow source. Again, there is no significant self potential variation along the line.

Respectfully submitted,

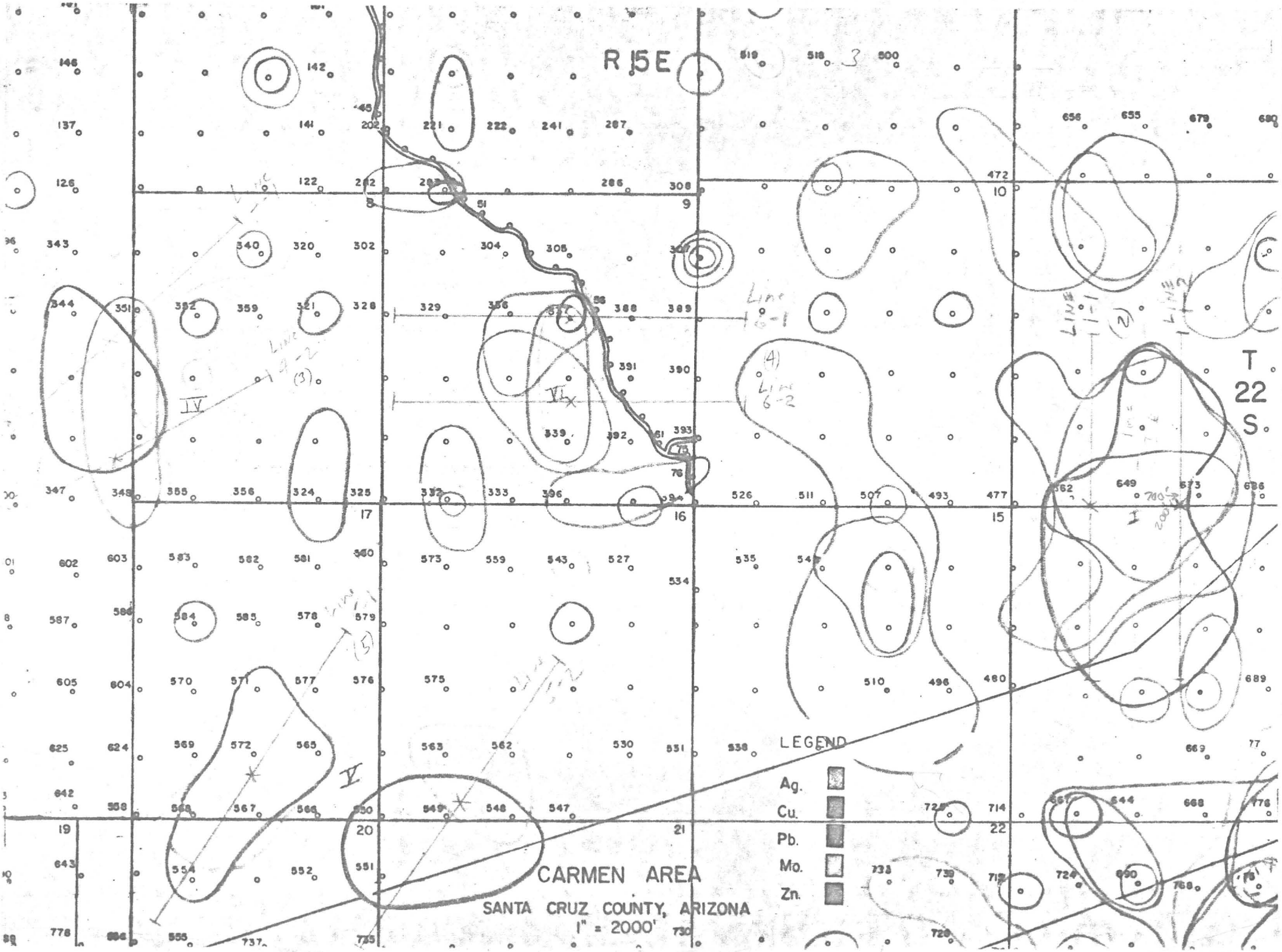
HEINRICHS GEOEXPLORATION COMPANY

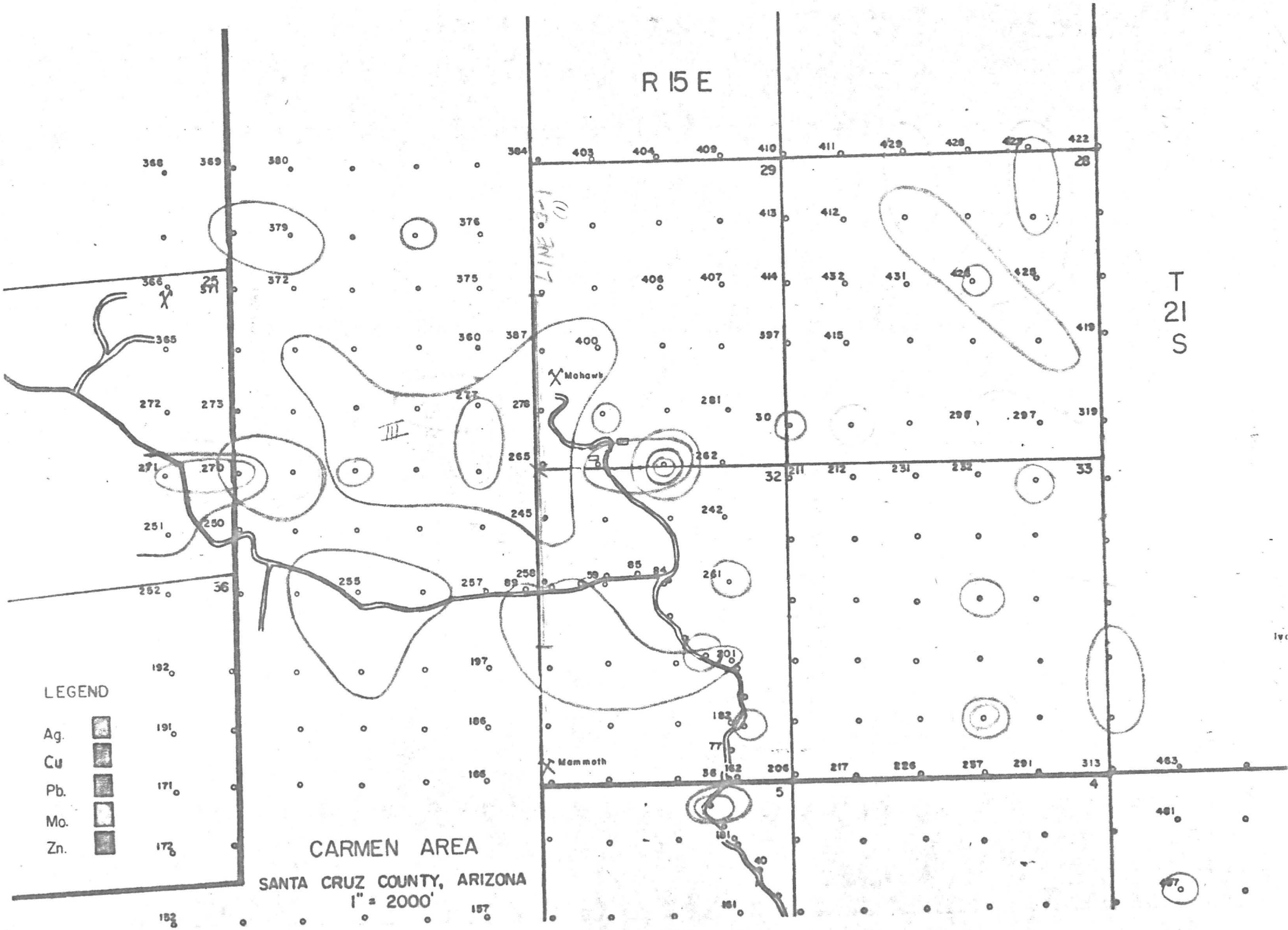
Chris S. Ludwig

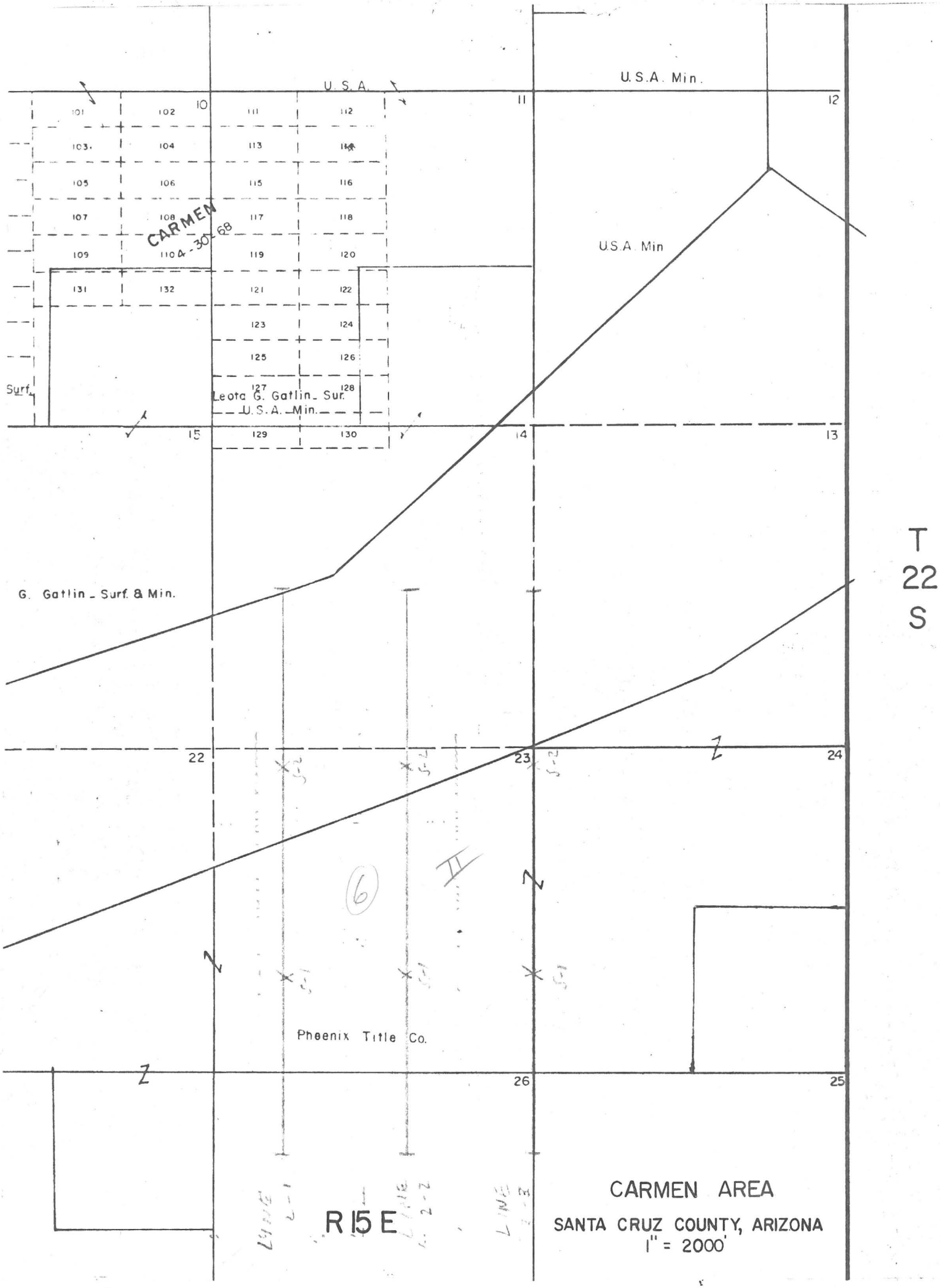
Chris S. Ludwig
Senior Geophysicist

APPROVED: _____
Walter E. Heinrichs, Jr.
President & General Manager

September 27, 1968
Tucson, Arizona


R 15 E
T 22 S
LEGEND
Ag.
Cu.
Pb.
Mo.
Zn.
CARMEN AREA
SANTA CRUZ COUNTY, ARIZONA
1" = 2000'


R 15 E
T 21 S
LEGEND
Ag.
Cu
Pb.
Mo.
Zn.
Mohawk
Mammoth
LINE 3-1
CARMEN AREA
SANTA CRUZ COUNTY, ARIZONA
1" = 2000'


U.S.A.
U.S.A. Min.
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CARMEN
4-30-68
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Surf.
Leota G. Gatlin Sur.
U.S.A. Min.
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U.S.A. Min
G. Gatlin Surf. & Min.
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Phoenix Title Co.
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R15E
CARMEN AREA
SANTA CRUZ COUNTY, ARIZONA
1" = 2000'

GEOCHEMICAL SURVEYS
2505 TURTLE CREEK BOULEVARD
DALLAS, TEXAS 75219

MAILING ADDRESS
P. O. BOX 19508

TELEPHONE
LAKESIDE 1-5145

July 29, 1968

BOX 5672 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578

E. H. Blue and Associates
303 North Central Avenue
Phoenix, Arizona

Gentlemen:

Pursuant to a telephone conversation on this date between Mr. Blue and Mr. Howard Twitty, we request permission to conduct an induced polarization geophysical survey on lands owned by you in the following area:

Sections 13, 14, 15, 19, 20, 21, 22, 23, 24 and 27
T22S, R15E, Santa Cruz County, Arizona

Geochemical Surveys will be fully responsible for all damages incurring as a result of this work and agrees to completely restore any surface damage caused by this survey.

Upon completion of all exploration work and after a reasonable time, Geochemical Surveys agrees to furnish E. H. Blue and Associates information obtained in the survey of the lands owned by E. H. Blue and Associates.

Subject to termination upon thirty days written notice to Geochemical Surveys this permit shall be for a period of sixty days.

Please indicate your approval by signing and returning one copy of this letter.

Yours very truly,

GEOCHEMICAL SURVEYS

W. R. Ransone

WRR:sd
cc: Mr. Howard Twitty
Heinrichs Geoexploration

AGREED TO AND ACCEPTED
this the ____ day of _____, 1968.

_____

E. H. Blue & Associates

GEOCHEMICAL SURVEYS
2505 TURTLE CREEK BOULEVARD
DALLAS, TEXAS 75219

MAILING ADDRESS
P. O. BOX 19508

TELEPHONE
LAKESIDE 1-3145

April 30, 1968

RETURN TO: Raymond E.Kay
P.O.Box 1009
Tucson,Arizona
85702
Phone 326-2845

E.H.Blue and Associates
303 North Central Avenue
Phoenix,Arizona

Re:Geochemical and geophysical permit

Dear Sir:

Pursuant to our telephone conversation on this date, we request permission to conduct a soil analysis survey in the following area:

T22S,R15E,sections:14,15,19,20,21,22,23,Santa Cruz County,Arizona.

Furthermore if the results of this survey prove interesting enough this permit will be extended to cover geophysical work and the drilling of test holes upon notice of the date and extent of this work.

Geochemical Surveys will be fully responsible for all damages during the course of,or as a result of this work, which might be incurred by them or any contractor in their employ.

Upon completion of all exploration work and after a reasonable time if Geochemical Surveys has no further interest in this area it is understood that they will make available to E.H.Blue and Associates the information gathered in this survey in those areas in which they have a controlling interest.

Please indicate your approval by signing and returning one copy of this letter.

* Approved this 9 day of May 1968

By: E. H. Blue

Yours very truly,

Raymond E. Kay

Raymond E. Kay

* Subject to attached.

E. H. Blue & Associates

FIRST FEDERAL BUILDING
3003 NORTH CENTRAL AVENUE
PHOENIX, ARIZONA 85012

Attachment to Letter Agreement dated April 30, 1968 with Geochemical Surveys.

It is further understood and agreed

1. That this permission to conduct a soil analysis survey is given only for those portions of the area described that are owned or controlled by the undersigned.

2. That Geochemical Surveys agree to completely restore any surface damage caused by this survey.

3. That this permission is not assignable without the written consent of the parties hereto.

4. That this permission is subject to termination at anytime by E. H. Blue & Associates upon 30 day written notice to Geochemical Surveys and/or Raymond Kay, P. O. Box 1009, Tucson, Arizona.

Approved:

Geochemical Surveys

By: Raymond E. Kay

E. H. Blue & Associates

By: E. H. Blue

EHB:rs

GEOCHEMICAL SURVEYS
2505 TURTLE CREEK BOULEVARD
DALLAS, TEXAS 75219

MAILING ADDRESS
P. O. BOX 19508

TELEPHONE
LAKESIDE 1-5145

May 16, 1968

Return to: Raymond E. Kay
P.O.Box 1009
Tucson, Arizona
85702
Phone 326-2845

Mrs. Leota Gatlin
Patagonia, Arizona

Re: Geophysical Permit

Dear Mrs. Gatlin:

We are very sorry that we have been unsuccessful in repeated attempts to contact you personally and we are taking this means to notify you of our plans to conduct a geophysical program and possibly drill some test holes in an area to the west of Patagonia and adjoining some of your property. We respectfully request permission to conduct a portion of this work in the following area:

R15E,T22S,sections 10,11,14,15, Santa Cruz County, Arizona.

We have permission from Mr. Bergiers in Patagonia and are currently working on his property. If you have any questions please feel free to call me collect in Tucson or contact Mr. Bergiers.

The geophysical work would be done by a geophysical contractor using lightweight vehicles wherever possible. If the results of this work proved interesting enough we would like to drill some test holes to depths of 500 to 1000 feet. Prior to drilling any test holes or building any new roads we will notify you and reach an agreement on the proposed locations.

We will assume full responsibility for any damages during the course of, or as a result of this work, which might be incurred by us or any contractor in our employ.

Your favorable consideration of this work will be greatly appreciated and we hope you will indicate your approval by signing and returning one copy of this letter.

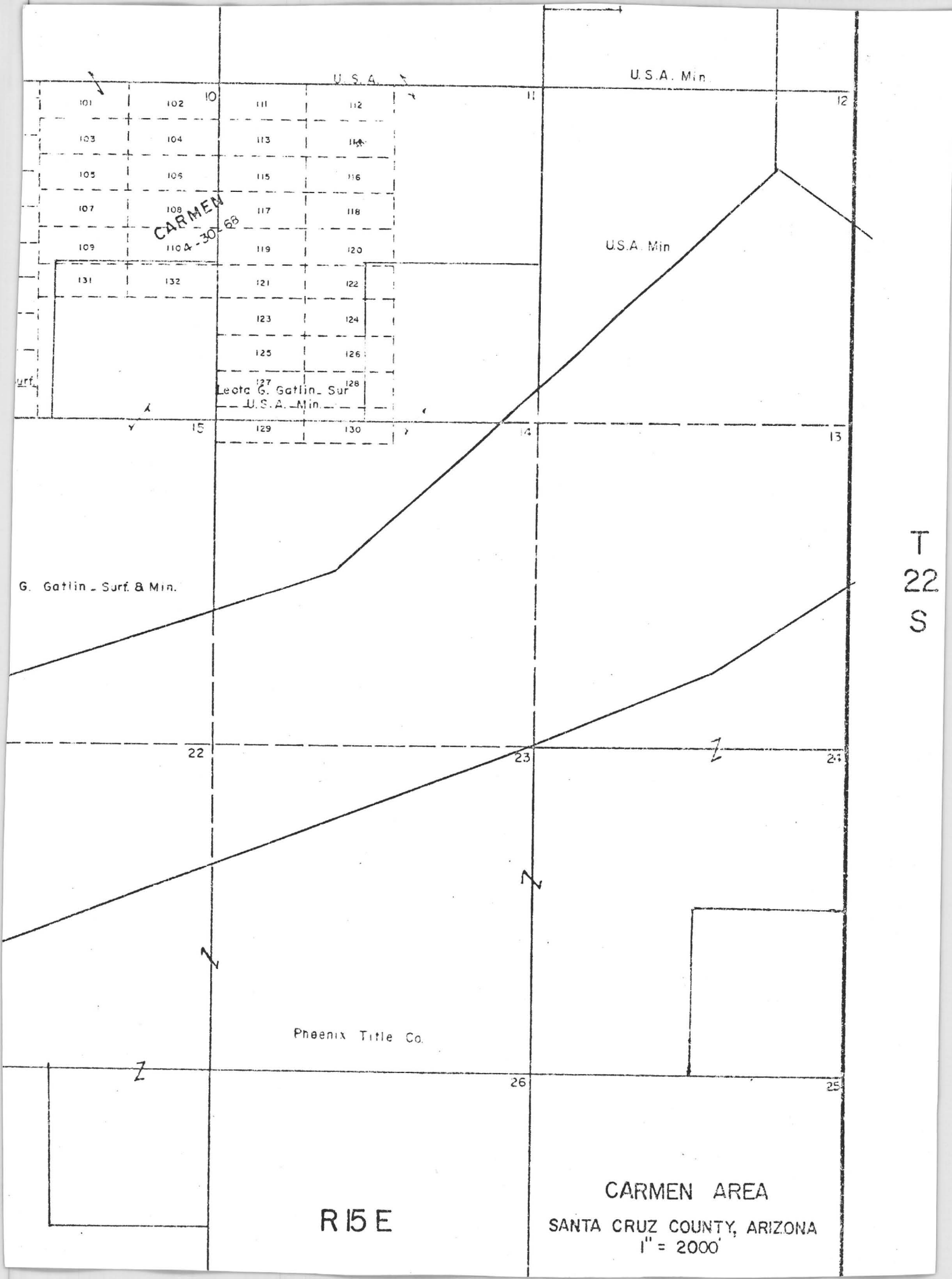
Approved this 26 day of May 1968

BY: Leota Gatlin

Yours very truly,

Raymond E. Kay

Raymond E. Kay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U.S.A. Min
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CARMEN
4-30-68
Leota G. Gatlin Sur
U.S.A. Min.
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G. Gatlin - Surf. & Min.
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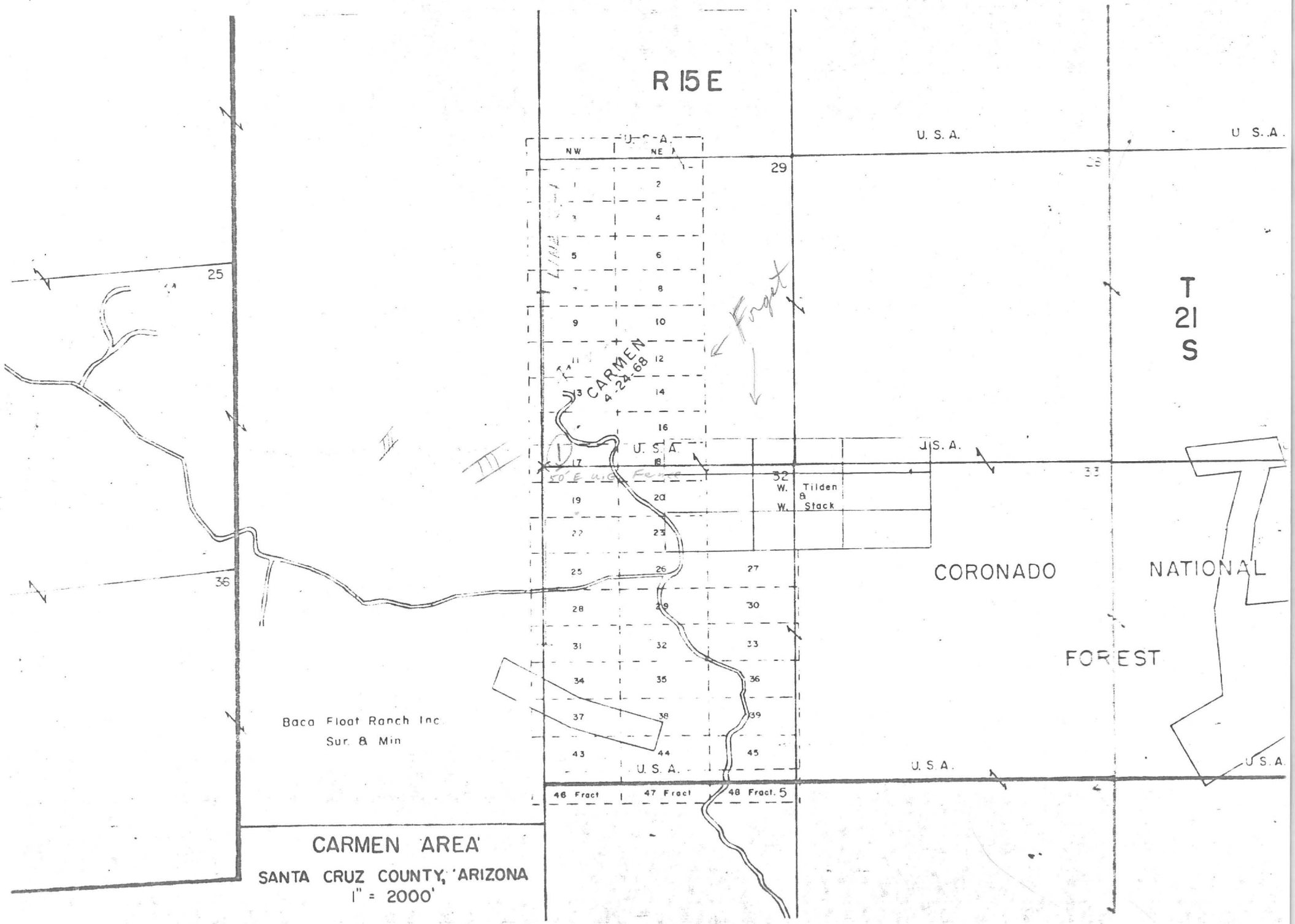
Phoenix Title Co.
26
25
R 15 E
CARMEN AREA
SANTA CRUZ COUNTY, ARIZONA
1" = 2000'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T 21 S
U. S. A.
NW
NE
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25
36
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CARMEN
4-24-68
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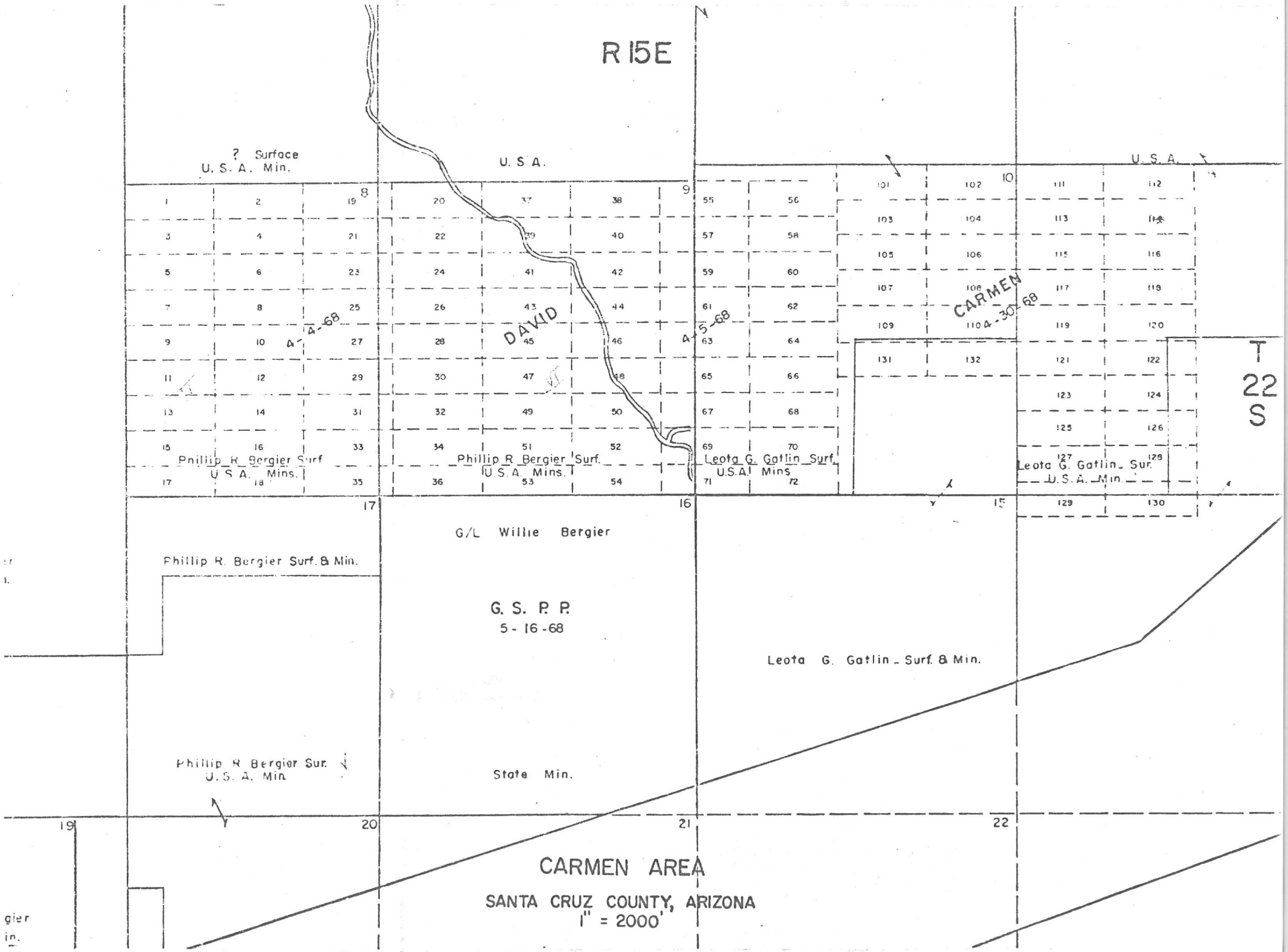
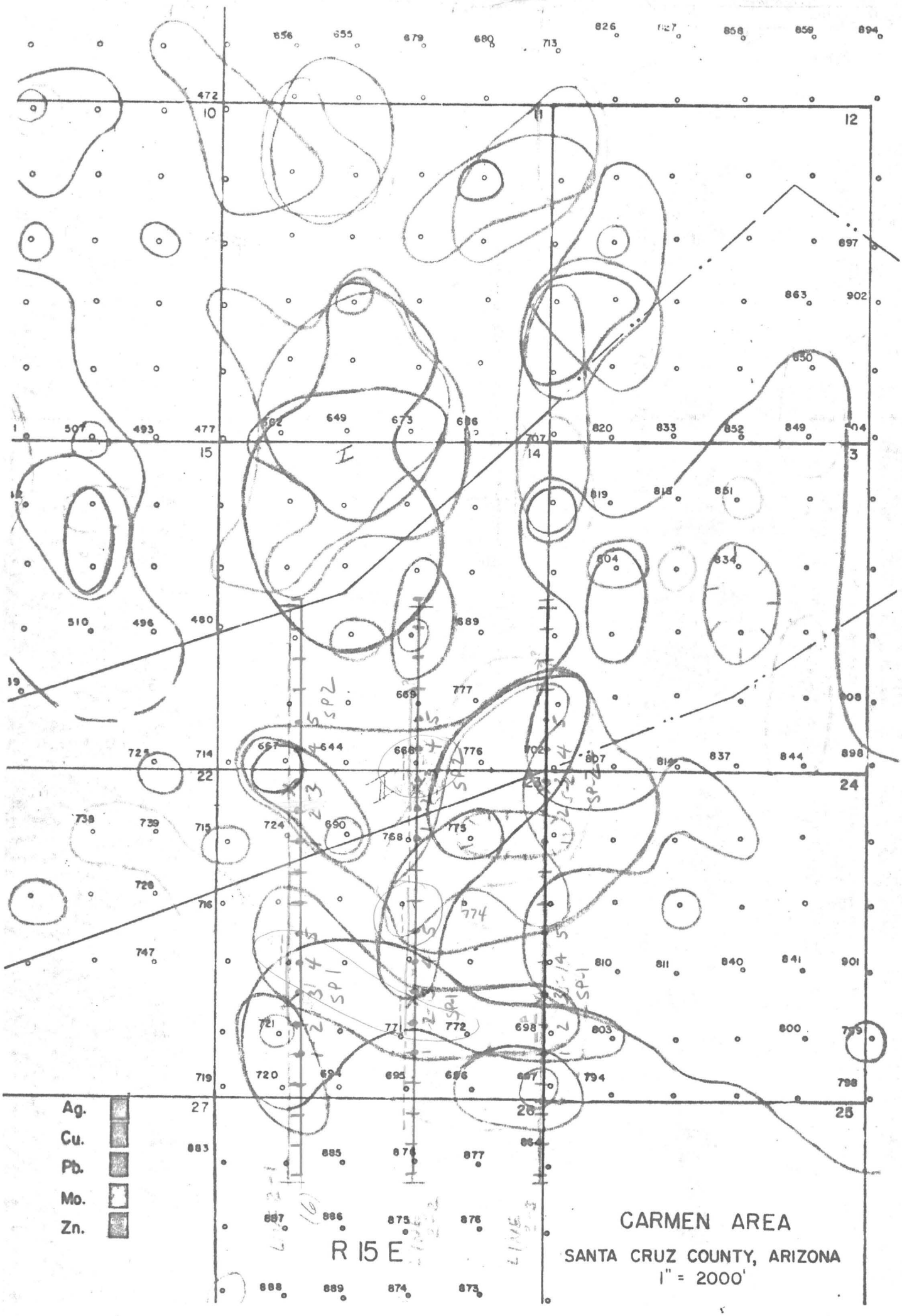
50' E. of Fence
W. W.
Tilden & Stack
CORONADO
NATIONAL
FOREST
Baca Float Ranch Inc
Sur. & Min
46 Fract
47 Fract
48 Fract. 5
CARMEN AREA
SANTA CRUZ COUNTY, ARIZONA
1" = 2000'


R 15E
T 22 S
? Surface
U. S. A. Min.
U. S. A.
U. S. A.
DAVID
4-5-68
CARMEN
4-30-68
Phillip R. Bergier Surf
U. S. A. Mins.
Phillip R. Bergier Surf.
U. S. A. Mins.
Leota G. Gatlin Surf.
U.S.A. Mins
Leota G. Gatlin Sur.
U. S. A. Min.
Phillip R. Bergier Surf. & Min.
G/L Willie Bergier
G. S. P. P.
5-16-68
Leota G. Gatlin Surf. & Min.
Phillip R. Bergier Sur.
U. S. A. Min.
State Min.
CARMEN AREA
SANTA CRUZ COUNTY, ARIZONA
1" = 2000'


T 22 S
R 15 E
Ag.
Cu.
Pb.
Mo.
Zn.
CARMEN AREA
SANTA CRUZ COUNTY, ARIZONA
1" = 2000'

Carmen Claim Group
101 thru 130.

and

Carmen Claim group

1 thru 45
and 46 thru 48 fraction

and. Carmen northwest
Carmen northeast.

CONFIDENTIAL OFFICEL USE ONLY Geochem

CLAIM GROUP CARMEN FOR GEO CHEM JOB # B-259-68

CLAIM No	DATE STAKED	DATE RECORDED	90 DAY - DUE DATE
1-20	Ap. 24, 1968	MAY 21, 1968	JULY 23, 1968
22-45	" " "	" " "	
CARMEN NORTHEAST	Ap 26, 1968		JULY 25, 1968
" "	" " "		
CARMEN 46 FRACTION	Ap 26, 1968		JULY 25, 1968
" 47 "	" " "		
" 48 "	" " "		

101-132	CARMEN April 30,	MAY 21, 1968

8:25
Dallas 12:13
3:10
Dallas 4:51
10:15 PM
TWA
Continental
4:00
PM
Dallas 9:45
7:05
Dallas 1:35
6:50
Dallas 8:26

CLAIM GROUP DOT 1-104 FOR GEOCHEM JOB # B-274-68

CLAIM No	DATE STAKED	DATE RECORDED	DUE DATE - 90 DAYS
DOT 1-18	JULY 3, 1968	JULY 12, 1968	Oct 1 ~~Oct 12, 1968~~
" 19-38	" 2, 1968		Sept 30 ~~Oct 2, 1968~~
" 39-56	" 1, 1968		Sept 29 ~~Oct 1, 1968~~
57-64	" 2, 1968		30 ~~Oct 2, 1968~~
DOT 65 & 66	July 3, 1968		Oct 1 ~~Oct 3, 1968~~
67-77	JUNE 29, 1968		~~Sept 27, 1968~~
DOT 78-104	JUNE 28, 1968		~~Sept 26, 1968~~

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87

90
87

Tickler file

Claim Group Rip FOR RBJr. Joint B-262-68

CLAIM No	DATE STAKED	DATE RECORDED	90 DAY – DUE DATE
1 – 16	JUNE 5, 1968	JUNE 19, 1968	Sept 3, 1968
17 – 19	" 6, 1968		Sept 4,
20 – 30	" 4, 1968		Sept 2
31 – 47	" 3, 1968		Sept 1
48 – 57	" 4, 1968		Sept 2
58 – 75	" 7, 1968		Sept 5
76 – 84	" 6, 1968		Sept 4
~~85 – 90~~			
85, 86 & 90	" 19, 1968		Sept 17
87, 88 & 89	" 18, 1968		Sept 16
91 – 108	" 11, 1968		Sept 9
109 – 128	" 12, 1968		Sept 10
129 – 130	11, 1968		Sept 9

JOB B259-68 LINE 1-1 SPREAD 1

LOOKING West DATE 7/28/68 A= 500'

68

CENTER 0.0 LABEL S/N FREQ. 3.0

11 21 31

COUPLING Yes

41

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT Geochem - Carmen

LINE I-1 HALF S SP. 1 DATE 7-28

PAGE

SEND	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5
RECEIVE	0-500	500-1000 →		1000-	1500 →		1500-2000 →			
RANGE	300	300	100	300	100	30	300	100	30	30
DC 1	1350	1610	265	~~195~~ 2215	425	124	1550	570	1980	820
DC 2	1395	1600	282	~~201~~ 2120	424	130	1540	576	2050	810
DC 3	1350	1610	265	~~195~~ 2215	425	124	1550	570	1980	820
DC 4	1395	1600	282	~~201~~ 212	424	130	1540	576	2050	810
DC 5										
DC 6										
DC 7										
DC 8										
DC AVG.										
AC 1	129.0	146.0	25.8	199.0	39.3	11.9	141.0	52.5	18.45	7.70
AC 2	129.0	146.0	25.8	199.0	39.3	11.9	141.0	52.5	18.45	7.70
AC AVG.										
S.P.	-13.9	+0.4		-5.6			-7.0			
AC NOISE	.07	.07		.07			.07			
POT RES.										

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PAGE

PROJECT Geochem - Carmen
LINE I-1 HALF 5 SP. 1 DATE 7-28

SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5	Cal	
RECEIVE	2000-2500 →				2500-3000 →				1-2	
RANGE	30	30	10	10	30	30	10	3	300	
DC 1	236	137	537	266	1255	870	418	253	209.8	
DC 2	229	121	596	264	1325	855	454	211	209.8	
DC 3	236	137	535	265	1240	885	405	252	209.8	
DC 4	229	121	600	265	1335	845	457	215	209.8	
DC 5			532	265	1215	885	420	254		
DC 6			600	263	1350	845	462	209		
DC 7			530	268	1200	885	403	264		
DC 8			602	262	1360	845	458	204		
DC AVG.										
AC 1	21.9	12.1	5.26	2.54	11.95	8.00	4.00	2.17	202.5	
AC 2	21.9	12.1	5.26	2.54	11.95	8.00	4.00	2.17	202.5	
AC AVG.										
S.P.	+5.0				+8.2					
AC NOISE	.07				.07					
POT RES.										

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Geo Chem - CARMEN

LINE I-1 HALF S SP. 1 DATE

PAGE 6

SEND	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5
RECEIVE	0-5 00's	5-10	→	10-15	→	→	15-20	→	→	→
RANGE	Hi	Hi	→	Hi	→	→	Hi	→	→	→
VOLTAGE	430	490	430	500	490	430	350	500	490	430
CURRENT	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5		COIL
RECEIVE	20-25	→	→	→	25-30	→	→	→		1-2
RANGE	Hi	→	→	→	Hi	→	→	→		Hi
VOLTAGE	350	500	490	430	350	500	490	430		140
CURRENT	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0		2.0

FREQUENCIES: .05 3.0

SENDER NO. 6644 S

OPERATOR HIX

RECEIVER NO. 7651 R

OPERATOR PALMER

COMMENTS:

a = ~~750~~ 500'
N-S

PAGE

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Geochem - Carmen
LINE I-1 HALF N SP. 1 DATE 7-28

SEND	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE	0-500	500-1000 →		1000-1500 →		→	1500-2250 →			→
RANGE	300	300	100	300	30	30	300	30	30	10
DC 1	1635	141	292	106	259	900	179	234	1000	458
DC 2	1610	140	265	106	261	890	180	256	995	438
DC 3	1635	141	292	106	259	900	179	234	1000	456
DC 4	1610	140	265	106	261	890	180	256	995	440
DC 5										454
DC 6										437
DC 7										456
DC 8										437
DC AVG.										
AC 1	151.0	133.	26.4	100.	24.4	8.50	172.	23.7	9.60	4.32
AC 2	151.0	133.	26.4	100	24.4	8.50	172.	23.7	9.60	4.32
AC AVG.										
S.P.	+3.5	-0.5		+4.1			-13.3			
AC NOISE	.06	.06		.06			.06			
POT RES.										

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PAGE

PROJECT Geochem - Carmen
LINE I-1 HALF N SP. 1 DATE 7-28

SEND	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2	cal	
RECEIVE	2000-	2500 →			2500-	3000 →			4-5	
RANGE	100	30	10	10	30	10	10	10	300	
DC 1	435	127	720	394	155	690	486	255	2095	
DC 2	430	129	737	340	147	722	446	259	2095	
DC 3	435	127	718	397	156	698	492	254	2095	
DC 4	430	129	742	335	146	715	440	260	2095	
DC 5			714	404	158	710	497	248		
DC 6			744	327	144	708	437	264		
DC 7			707	412	159	702	498	242		
DC 8			756	322	143	718	437	268		
DC AVG.										
AC 1	41.6	12.15	6.88	3.50	14.4	6.62	4.36	2.39	206.0	
AC 2	41.6	12.15	6.88	3.50	14.4	6.62	4.36	2.39	206.0	
AC AVG.										
S.P.	-5.7				+14.9					
AC NOISE	.06				.07					
POT RES.										

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Geochem CARMEN

LINE I-1 HALF N SP. 1 DATE

SEND	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE	0-5.00N	5-10N →		10-15 →			15-20 →			
RANGE	Hi	Hi →		Hi →			Hi →			
VOLTAGE	360	500	360	500	500	360	440	500	500	360
CURRENT	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
SEND	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2		CAL
RECEIVE	20-25N →				25-30 →					4-5
RANGE	Hi →				Hi →					Hi
VOLTAGE	440	500	500	360	440	500	500	360		180
CURRENT	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0		2.0

FREQUENCIES .05 3.0

SENDER NO. 6645

OPERATOR HIX

RECEIVER NO. 7651 R

OPERATOR PALMER

COMMENTS: ST-5A

JOB B259-68 LINE 1-1 SPREAD 2

LOOKING W DATE 8/14/68 A= 500'

CENTER 35.0 LABEL N/N FREQ. 3.0

COUPLING Yes

N-S
a = 500'

PAGE

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Geochem - Carmen
LINE I-1 HALF S SP. 2 DATE 8-14

SEND	4-5	3-4	~~4~~-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5
RECEIVE	35-30N	30-25N	→	25-20N	→	→	20-15N	→	→	→
RANGE		100-10	100-10	100-10	100-10	100-10	100-10	100-10	10-10	10-10
DC 1		+36.5	+15.0	+39.5	+21.8	+12.4	+23.6	+5.8	+1.25	+1.20
DC 2		+44.2	+19.8	+27.0	-4.0	+4.2	+2.6	+1.7	+2.20	+2.36
DC 3		+35.0	+15.5	+40.3	+22.2	+12.0	+26.0	+4.4	+0.60	+1.78
DC 4		+45.6	+19.5	+25.5	-6.3	+4.2	0	+2.5	+2.58	+1.48
DC 5		+34.6	+15.6	+41.6	+24.0	+12.4	+29.6	+3.8	+0.05	+2.62
DC 6		+45.8	+20.0	+23.8	-8.5	+2.4	-2.5	+4.2	+3.58	+0.95
DC 7			+14.4	+42.3	+26.0	+14.2	+31.7	+2.2	-0.58	+3.02
DC 8			+20.2	+22.4	-7.8	+2.0	-4.4	+4.3	+3.98	+0.62
DC AVG.	—	87.71	35.35	84.31	19.76	15.41	53.89	13.84	6.048	5.787
AC 1	—			81.0	18.9	14.6	52.5	13.5	5.89	5.60
AC 2	—	83.7	33.6	✓	✓	✓	✓	✓	✓	✓
AC AVG.		✓	✓							
S.P.	-5.0	-6.3		+3.7			+4.8			
AC NOISE		.02		.07			.03			
POT RES.										

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PAGE

PROJECT Geochem - Carmen
LINE I-1 HALF S SP. 2 DATE 8-14

SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5	Cal	
RECEIVE	15-10N	→		→	10-5N	→		→	1-2	
RANGE	100-10	10-10	10-10	10-10	10-10	10-10	10-10	10-10	100-10	
DC 1	+22.2	+1.40	+1.65	+1.70	+2.20	+2.36	+1.00	+6.40	+.42	
DC 2	-12.3	+5.44	+1.50	+3.30	+3.64	+1.62	+1.64	-1.20	+.22	
DC 3	+28.0	+6.55	+2.65	+0.78	+3.65	+1.23	+1.46	+6.00	+.42	
DC 4	-17.8	+5.95	+0.45	+4.95	+2.82	+2.62	+1.05	-0.90	+.22	
DC 5	+34.0	+2.30	+3.66	-0.60	+4.56	+0.96	+2.80	+4.20		
DC 6	-23.4	+4.42	-0.70	+5.60	+1.55	+2.96	+0.10	-0.90		
DC 7	+38.0	+0.65	+4.95	-1.65	+5.80	+0.40	+3.10	+3.25		
DC 8	-26.5	+5.60	-1.90	+6.60	+1.05	+3.64	+0.40	+0.20		
DC AVG.	17.53	8.526	4.347	4.596	8.888	5.363	3.165	3.506	100.50	
AC 1	16.9	8.20	4.17	4.36	8.55	5.18	3.01	✓	100.18	
AC 2	✓	✓	✓	✓	✓	✓	✓	3.31	✓	
AC AVG.										
S.P.	+4.2				+3.0					
AC NOISE	.03				.07					
POT RES.										

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Geo Chem - CARMEN

LINE I-1 HALF S SP. 2 DATE 8-15

PAGE 4

SEND	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5
RECEIVE	35-30 N	30-25 N	→	25-20	→	→	20-15	→	→	→
RANGE		Hi	Hi	Hi	Hi	Hi	Hi	→	→	→
VOLTAGE		510	480	440	510	480	500	440	510	480
CURRENT	—	5.0	4.0	4.0	5.0	4.0	3.0	4.0	5.0	4.0
SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5		CAL
RECEIVE	15-10	→	→	→	10-5	→	→	→		1-2
RANGE	Hi	→	→	→	Hi	→	→	→		Hi
VOLTAGE	500	440	510	480	500	446	510	480		170
CURRENT	3.0	4.0	5.0	4.0	3.0	4.0	5.0	4.0		1.0

FREQUENCIES .05 3.0

SENDER NO. 66445

OPERATOR HIX

RECEIVER NO. 9741-1

OPERATOR PALMER

COMMENTS:
4-5 — Hi - 4.0
3-4 — Hi - 5.0
2-3 — Hi - 4.0
1-2 — Hi - 3.0

N-S

Burr-Brown a = 500'

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT Geochem-Carmen

LINE I-1 HALF N SP. 2 DATE 8-15-68

PAGE

SEND	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE	35-40N	40-45N	→	45-50 N	—	→	50-55	N —		→
RANGE	100-10	100-10	100-10	100-10	100-10	100-10	100-10	100-10	10-10	10-10
DC 1	+19.4	+19.4	+10.2	+65.0	+20.0	+4.0	+76.0	+27.6	+4.42	+2.82
DC 2	+30.0	+31.4	+17.5	+48.0	+8.0	+7.0	+50.4	-0.4	+5.30	+3.04
DC 3	+20.6	+17.6	+8.6	+63.8	+18.0	+3.5	+76.0	+26.1	+4.76	+2.98
DC 4	+28.4	+30.6	+17.5	+48.0	+10.0	+5.5	+50.0	-1.0	+5.64	+3.15
DC 5	+22.3	+18.0	+10.4	+62.0	+17.4	+4.4	+75.8	+26.5	+5.00	+2.35
DC 6	+26.6	+32.6	+19.0	+48.4	+9.6	+6.4	+50.4	+1.8	+6.40	+3.20
DC 7	+23.6	+19.8	+10.6	+62.0	+17.6	+4.0		+26.0	+5.70	+3.00
DC 8	+25.8	+32.2	+17.6	+50.2	+9.4	+7.5		0	+7.30	+3.35
DC AVG.	51.49	58.01	26.69	88.57	31.16	8.722	84.41	20.63	9.032	4.527
AC 1	49.0	55.5	25.3	83.0	29.8	8.20	78.1	19.3	8.48	4.23
AC 2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AC AVG.										
S.P.	-12.9	+1.6		+11.2			+10.7			
AC NOISE	.03	.04		.03			.02			
POT RES.										

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Geochem - Carmen
LINE I-1 HALF N SP. 2 DATE 8/15

PAGE

SEND	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2	cal	
RECEIVE	55-60N	→		→	60-65N	→		→	4-5	
RANGE	100-10	100-10	10-10	10-10					100-10	
DC 1	+38.6	+14.0	+4.35	+1.30					+.20	
DC 2	+30.0	-1.0	+1.85	+3.40					+.95	
DC 3	+40.0	+12.4	+4.40	+0.90					+.20	
DC 4	+29.0	-1.5	+2.95	+3.10					+.95	
DC 5	+40.6	+13.6	+4.00	+1.10						
DC 6	+28.5	-0.6	+2.20	+2.70						
DC 7	+42.0	+13.6	+4.60	+1.00						
DC 8	+28.2	-0.6	+2.65	+3.20						
DC AVG.	54.68	11.32	6.336	3.486					100.93	
AC 1	51.2	10.7	6.00	3.28					100.35	
AC 2	✓	✓	✓	✓					100.35	
AC AVG.										
S.P.	-13.8									
AC NOISE	.03									
POT RES.										

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Geo Chem - CARMEN

LINE I-1 HALF N SP. 2 DATE 8-15

PAGE 3

SEND	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE	35-40N	40-45N	→	45-50	→	→	50-55	→	→	→
RANGE	Hi	Hi	→	Hi	→	→	Hi	→	→	→
VOLTAGE	500	220	500	500	440	500	230	500	440	500
CURRENT	3.0	2.0	3.0	5.0	4.0	3.0	2.0	5.0	4.0	3.0
SEND	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2		CAL.
RECEIVE	55-60	→	→	→	60-65	→	→	→		4-5
RANGE	Hi	→	→	→	Hi	→	→	→		Hi
VOLTAGE	470	500	440	500	470	500	430	500		120
CURRENT	4.0	5.0	4.0	3.0	4.0	5.0	4.0	3.0		1.0

FREQUENCIES .05 3.0

SENDER NO. 66445

OPERATOR Hix

RECEIVER NO. 9741-1

OPERATOR PALMER

COMMENTS: Hi — 1-2 — 3.0
2-3 — 4.0
3-4 — 5.0
4-5 — 4.0

HEINRICHS GEOEX B259-68 LINE 1-1 SPD 2 LOOKING WEST 8-14-68 A= 500 FEET

1.000	5.000	4.000	4.000	5.000	4.000	3.000	4.000	5.000	4.000	I	3.000	4.000	5.000	4.000	3.000	4.000	5.000	4.000	1.000	
	8771	3535	8431	1976	1541	5389	1384	6048	5787	DC	1753	8526	4347	4596	8888	5363	3165	3506	1005	LEFT
	8771	3535	8431	1976	1541	5389	1384	6048	5787		1753	8526	4347	4596	8888	5363	3165	3506	1005	SIDE
1	1	2	1	2	3	1	2	3	4	N	2	3	4	5	3	4	5	6		
0.000	87.71	35.35	84.31	19.76	15.41	53.89	13.84	6.048	5.787	DCA	17.53	8.526	4.347	4.596	8.888	5.363	3.165	3.506	100.5	
0.000	83.70	33.60	81.00	18.90	14.60	52.50	13.50	5.890	5.600	AC1	16.90	8.200	4.170	4.360	8.550	5.180	3.010	3.310	100.2	
0.000	83.70	33.60	81.00	18.90	14.60	52.50	13.50	5.890	5.600	AC2	16.90	8.200	4.170	4.360	8.550	5.180	3.010	3.310	100.2	
0.000	83.70	33.60	81.00	18.90	14.60	52.50	13.50	5.890	5.600	ACA	16.90	8.200	4.170	4.360	8.550	5.180	3.010	3.310	100.2	
*000.0	26.18	52.76	31.46	23.59	57.50	26.81	20.66	18.05	43.19	RHO	34.89	31.81	25.95	60.02	44.22	40.02	33.07	73.26	.995	DC CAL
*000.0	4.5	4.9	3.8	4.2	5.2	2.3	2.2	2.4	3.0	PFE	3.4	3.7	3.9	5.1	3.6	3.2	4.8	5.6	.997	AC CAL
*00000	171	93	120	180	91	87	107	132	70	MCF	98	115	152	85	82	81	146	77		
0.0	.1	.1	.1	.3	.2	.1	.4	1.0	.6	CPFE	.2	.5	1.1	.6	.3	.6	1.3	.7		
*000.0	4.4	4.8	3.7	3.9	5.0	2.3	1.9	1.4	2.5	CCPFE	3.2	3.2	2.8	4.5	3.4	2.6	3.5	4.9		
1000	168	91	118	167	88	85	90	78	57	CCMCF	93	101	109	75	76	65	106	67		

3.000	2.000	3.000	5.000	4.000	3.000	2.000	5.000	4.000	3.000	I	4.000	5.000	4.000	3.000	4.000	5.000	4.000	3.000	1.000	
5149	5801	2669	8857	3116	8722	8441	2063	9032	4527	DC	5468	1132	6336	3486					10093	RIGHT
5149	5801	2669	8857	3116	8722	8441	2063	9032	4527		5468	1132	6336	3486					10093	SIDE
1	1	2	1	2	3	1	2	3	4	N	2	3	4	5	3	4	5	6		
51.49	58.01	26.69	88.57	31.16	8.722	84.41	20.63	9.032	4.527	DCA	54.68	11.32	6.336	3.486	0.000	0.000	0.000	0.000	100.9	
49.00	55.50	25.30	83.00	29.80	8.200	78.10	19.30	8.480	4.230	AC1	51.20	10.70	6.000	3.280	0.000	0.000	0.000	0.000	100.3	
49.00	55.50	25.30	83.00	29.80	8.200	78.10	19.30	8.480	4.230	AC2	51.20	10.70	6.000	3.280	0.000	0.000	0.000	0.000	100.3	
49.00	55.50	25.30	83.00	29.80	8.200	78.10	19.30	8.480	4.230	ACA	51.20	10.70	6.000	3.280	0.000	0.000	0.000	0.000	100.3	
25.51	43.11	52.89	26.33	46.31	43.21	62.72	24.53	33.56	44.85	RHO	81.26	33.65	47.08	60.44	*000.0	*000.0	*000.0	*000.0	.991	DC CAL
4.4	3.9	4.8	6.0	3.9	5.7	7.4	6.2	5.8	6.4	PFE	6.1	5.1	4.9	5.6	*000.0	*000.0	*000.0	*000.0	.994	AC CAL
174	90	91	230	84	132	118	254	174	142	MCF	75	153	105	93	*00000	*00000	*00000	*00000		
.1	.0	.1	.1	.1	.3	0.0	.3	.4	.5	CPFE	.1	.4	.5	.6	0.0	0.0	0.0	0.0		
4.4	3.8	4.7	6.0	3.8	5.4	7.4	5.9	5.4	5.8	CCPFE	6.1	4.7	4.4	5.0	*000.0	*000.0	*000.0	*000.0		
171	89	90	227	82	125	118	242	162	130	CCMCF	75	140	94	83	1000	1000	1000	1000		

179429

JOB B2?7-68 LINE 1-2 SPREAD 1

LOOKING West DATE 7/26/68 A = 500

CENTER 0.0 LABEL S/N FREQ. 3.0

COUPLING Yes

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT Geochem- Carmen

LINE I-2 HALF S SP. 1 DATE 7-26

PAGE

SEND	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5
RECEIVE	0-500	500-1000 →		1000-	1500 →		1500-	2000 →		
RANGE	300	100	30	100	30	30	100	30	30	10
DC 1	935	806	1990	500	2525	965	361	134	1000	504
DC 2	960	817	2100	506	2630	1060	376	125	1050	498
DC 3	935	812	2000	500	2510	960	361	135	990	497
DC 4	960	815	2055	506	2630	1070	376	123	1055	498
DC 5		814	2010		2510	970		135	990	502
DC 6		816	2050		2635	1065		122	1065	502
DC 7		814	2020		2500	965		137	985	496
DC 8		816	2040		2640	1055		121	1060	502
DC AVG.										
AC 1	87.0	75.6	18.95	47.5	23.85	9.45	34.5	12.05	9.45	4.62
AC 2	87.0	75.6	18.95	47.5	23.85	9.45	34.5	12.05	9.45	4.62
AC AVG.										
S.P.	-3.5	+3.8		+3.0			+8.0			
AC NOISE	.07	.06		.07			.07			
POT RES.										

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PAGE

PROJECT Geochem - Carmen
LINE I-2 HALF S SP. 1 DATE 7-26

SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5	Cal	
RECEIVE	2000-2500 →				2500-3000 →				1-2	
RANGE	30	10	10	10	10	10	10	3	300	
DC 1	136	740	703	437	396	260	303	199	2090	
DC 2	144	822	822	417	354	262	336	211	2090	
DC 3	134	706	710	440	398	264	301	191	2090	
DC 4	143	810	805	397	346	258	342	216	2090	
DC 5	134	726	700	435	408	266	300	191		
DC 6	141	797	840	420	336	257	345	225		
DC 7	134	738	695	408	423	263	294	188		
DC 8	142	808	857	434	336	254	350	220		
DC AVG.										
AC 1	12.9	7.04	7.00	3.88	3.52	2.43	2.95	1.84	200.5	
AC 2	12.9	7.06	7.00	3.88	3.52	2.43	2.95	1.84	200.5	
AC AVG.										
S.P.	-10.9				-1.1					
AC NOISE	.08				.07					
POT RES.										

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Geo Chem-CARMEN

LINE I 2 HALF S SP. 1 DATE 7-26

PAGE 4

SEND	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5
RECEIVE	0-55	5-105 →		10-15 →			15-20 →			
RANGE	Hi	Hi	Hi	Lo	Hi	Hi	Lo	Lo	Hi	Hi
VOLTAGE	400	420	400	640	420	400	640	640	420	400
CURRENT	6.0	6.0	6.0	2.0	6.0	6.0	2.0	2.0	6.0	6.0
SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5		CHC
RECEIVE	20-25 →				25-30 →					1-2
RANGE	Lo	Lo	Hi	Hi	Lo	Lo	Hi	Hi		Lo
VOLTAGE	640	640	410	400	640	640	410	400		640
CURRENT	2.0	2.0	6.0	6.0	2.0	2.0	6.0	6.0		2.0

FREQUENCIES .05 3.0

SENDER NO. 66445

OPERATOR HIX

RECEIVER NO. 7651R

OPERATOR PALMER

COMMENTS:

a = 500'
N-S

PAGE

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Geochem - Carmen
LINE I-2 HALF N SP. 1 DATE 7-26

SEND	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE	0-500	500-1000 →		1000-1500 →			1500-	2000 →		
RANGE	100	100	10	300	30	10	300	30	10	3
DC 1	258	326	658	810	830	323	940	242	437	210
DC 2	266	302	700	820	835	294	940	241	426	186
DC 3	258	330	644	810	830	334	940	243	435	215
DC 4	266	300	710	820	835	292	940	241	430	181
DC 5		334	646			340		242	428	224
DC 6		298	714			284		241	432	167
DC 7		336	642			346		243	425	226
DC 8		298	718			282		241	438	165
DC AVG.										
AC 1	25.0	30.0	6.45	79.0	7.95	3.02	90.0	23.1	4.10	1.89
AC 2	25.0	30.0	6.45	79.0	7.95	3.02	90.0	23.1	4.10	1.89
AC AVG.										
S.P.	+16.6	-6.6		+9.2			-5.3			
AC NOISE	.06	.06		.06			.06			
POT RES.										

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PAGE

PROJECT Geochem - Carmen

LINE I-2 HALF N SP. 1 DATE 7-26

SEND	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2	cal	
RECEIVE	2000-2500 →			→	2500-3000 →			→	4-5	
RANGE	30	30	3	3	30	30	3	3	300	
DC 1	2555	1040	235	111	1400	750	204	101	2085	
DC 2	2410	995	239	105	1550	765	220	110	2085	
DC 3	2580	1045	231	119	1330	740	194	090	2085	
DC 4	2395	990	231	105	1610	785	224	110	2085	
DC 5	2600	1050	230	121	1280	720	180	099		
DC 6	2385	985	229	103	1650	795	222	115		
DC 7	2610	1050	238	121	1245	710	173	103		
DC 8	2360	980	229	104	1690	815	226	101		
DC AVG.										
AC 1	23.95	9.65	2.20	1.08	13.65	7.00	1.85	0.96	205.0	
AC 2	23.95	9.60	2.20	1.07	13.65	7.00	1.85	0.96	205.0	
AC AVG.										
S.P.	+6.5				+9.5					
AC NOISE	.08				.07					
POT RES.										

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

PROJECT Geo Chem - CARMEN

LINE I-2 HALF N SP. 1 DATE 7-26

PAGE 3

SEND	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE	0-5 N	5-10 N	→	10-15	→	→	15-20	→	→	→
RANGE	LO	LO	LO	HI	LO	LO	HI	HI	LO	LO
VOLTAGE	660	660	660	440	660	660	400	420	660	660
CURRENT	2.0	2.0	2.0	6.0	2.0	2.0	6.0	6.0	2.0	2.0
SEND	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2		CAL
RECEIVE	20-25	→	→	→	25-30	→	→	→		4-5
RANGE	HI	HI	LO	LO	HI	HI	LO	LO		HI
VOLTAGE	400	420	660	660	400	420	660	660		130
CURRENT	6.0	6.0	2.0	2.0	6.0	6.0	2.0	2.0		2.0

FREQUENCIES .05 3.0

SENDER NO. 6645

OPERATOR HIX

RECEIVER NO. 7651R

OPERATOR PALMER

COMMENTS:

1-2 - LO - 2

2-3 - LO - 2

3-4 - HI - 3-6

4-5 - HI - 3-6

JOB B259-68 LINE 1-2 SPREAD 2

LOOKING West DATE 8/26/68 A= 500'

CENTER 35.0 LABEL N/N FREQ. 3.0

COUPLING Yes

Double DC

a=500'
N-S

PAGE

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Geochem- Carmen
LINE I-2 HALF S SP. 2 DATE

SEND	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5
RECEIVE	35-30N	30-25N	→	25-20N	→	→	20-15N	→	→	→
RANGE	100-10	100-10	100-10	100-10	100-10	10-10	100-10	100-10	10-10	10-10
DC 1	+14.3	+48.2	+26.4	+34.2	+7.5	+3.83	+32.0	+9.2	+2.64	+1.20
DC 2	+64.2	+29.0	+14.0	+14.2	+9.4	+4.60	+7.6	+3.4	+4.20	+3.65
DC 3	+35.6	+46.0	+28.0	+34.4	+7.5	+3.83	+32.6	+9.2	+1.80	+0.50
DC 4	+37.5	+29.0	+13.4	+13.8	+9.4	+4.36	+6.4	+3.8	+4.90	+4.25
DC 5	+40.5	+46.0	+28.3	+35.7		+3.20	+33.6	+8.4	+0.70	+0.20
DC 6	+35.7	+29.0	+12.6	+12.3		+4.20	+6.4	+4.2	+5.60	+4.90
DC 7	+40.7	+46.2	+28.5	+36.4		+4.38	+35.6	+8.6	+0.10	−0.40
DC 8	+34.4	+28.0	+11.5	+12.4		+3.36	+5.8	+5.4	+6.65	+4.78
DC AVG.	71.48	94.36	27.65	72.13	19.35	7.952	77.62	22.14	8.804	4.647
AC 1	67.5	90.6	25.6	69.7	18.5	7.55	75.6	21.5	8.49	4.42
AC 2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AC AVG.										
S.P.	+8.6	−16.6		+9.5			−2.2			
AC NOISE	.06	.07		.07			.07			
POT RES.										

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT Geochem - Carmen

LINE I-2 HALF S SP. S DATE

PAGE

SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5	Cal	
RECEIVE	15-10N	→	→	→	10-5N	→	→	→	1-2	
RANGE	100-10	100-10	10-10	10-10	10-10	10-10	10-10	10-10	100-10	
DC 1	+4.0	+4.0	+3.30	+3.60	+2.95	+1.20	+1.30	-0.45	+.57	
DC 2	+14.5	-0.3	+1.00	-0.40	+4.75	-0.85	+2.25	+2.40	+.20	
DC 3	-4.0	+8.2	+2.40	+2.00	+4.85	+1.40	+0.90	+0.20	+.57	
DC 4	+21.8	-3.4	+1.90	+1.15	+2.57	-1.05	+2.80	+1.65	+.20	
DC 5	-8.5	+10.6	+1.40	+1.05	+6.95	+1.50	-0.85	+1.15		
DC 6	+26.0	-4.0	+2.85	+1.40	+1.00	-1.20	+4.80	+1.15		
DC 7	-3.5	+12.5	+0.40	+0.84	+8.38	+1.62	-1.70	+1.60		
DC 8	+30.2	-8.0	+3.75	+2.40	-1.60	-1.35	+5.70	+0.40		
DC AVG.	24.11	9.909	4.713	2.719	9.167	4.459	2.397	1.576	100.4	
AC 1	23.2	9.6	4.52	2.59	8.75	4.44	2.23	1.46	100.0	
AC 2	✓	✓	✓	✓	✓	✓	✓	✓	✓	
AC AVG.										
S.P.	-6.1				+19.6					
AC NOISE	.07				.05					
POT RES.										

HEINRICHS GEOEXPLORATION CO.

I. P. SENDER NOTES

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PROJECT Geo Chem-CARMEN

LINE I-2 HALF S SP. 2 DATE 8-26

SEND	4-5	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5
RECEIVE	35-30N	20-25N	→	25-20	→	→	20-15	→	→	→
RANGE	Hi	Hi	→	Hi	→	→	Hi	→	→	→
VOLTAGE	450	320	450	440	320	450	400	440	320	440
CURRENT	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
SEND	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5		CAL
RECEIVE	15-10	→	→	→	10-5	→	→	→		1-2
RANGE	Hi	→	→	→	Hi	→	→	→		Hi
VOLTAGE	400	430	320	440	400	430	320	440		100
CURRENT	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		1.0

FREQUENCIES .05 3.0

SENDER NO. 66445

OPERATOR HIX

RECEIVER NO. 9241-1

OPERATOR PALMER

COMMENTS:

a = 500'
N-S

Burr-Brown Rec

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

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PROJECT Geochem - Carmen

LINE I-1 HALF N SP. 2 DATE

SEND	1-2	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2
RECEIVE	35-40N	40-45N	→	45-50N	→	→	50-55N	→	→	→
RANGE	1000-10	100-10	100-10	1000-10	100-10	100-10	1000-10	100-10	10-10	10-10
DC 1	0	+39.7	+9.5	+105	+14.2	+10.0	+144	+12.2	+6.22	+4.00
DC 2	+65	+24.0	+19.8	+34	+11.4	+8.2	+45	+24.6	+280	+3.40
DC 3	+20	+39.7	+8.8	+120	+14.2	+10.0	+141	+10.5	+6.05	+3.82
DC 4	+70	+22.5	+20.0	+25	+11.4	+7.0	+85	+25.5	+3.22	+3.62
DC 5	-22	+42.3	+8.8	+118		+10.0	+25	+10.4	+6.06	+3.65
DC 6	+86	+20.0	+20.3	+30		+8.1	+105	+25.7	+2.96	+3.62
DC 7	-36	+40.6	+8.2	+125		+10.0	+115	+10.4	+5.80	+3.76
DC 8	+118	+22.5	+21.5	+25		+6.8	+96	+25.9	+3.40	+3.62
DC AVG.	105.5	78.65	28.35	148.4	26.58	14.98	198.5	30.50	9.063	6.147
AC 1	102	75.5	26.9	141	25.3	14.1	188	28.7	8.61	5.78
AC 2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AC AVG.										
S.P.	-9.1	+4.0		-7.2			-2.7			
AC NOISE	.03	.02		.03			.04			
POT RES.										

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

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PROJECT Geochem - Carmen
LINE I-2 HALF N SP. 2 DATE

SEND	4-5	3-4	2-3	1-2	4-5	3-4	2-3	1-2	cal	
RECEIVE	55-60N	→		→	60-65N	→		→	4-5	
RANGE	100-10	100-10	10-10	10-10	100-10	10-10	10-10	10-10	100-10	
DC 1	+33.6	+2.4	+2.00	+1.00	+38.2	+7.40	+3.18	+3.23	+.75	
DC 2	+26.6	+11.5	+2.44	+2.42	+29.4	+8.20	+3.58	+2.00	-.02	
DC 3	+28.6	+2.0	+1.70	+1.40	+35.5	+8.25	+3.00	+2.95	+.75	
DC 4	+29.6	+12.0	+2.76	+2.26	+30.2	+8.20	+3.38	+2.55	-.02	
DC 5	+31.5	+1.8	+1.22	+1.00	+34.0	+8.20	+3.25	+3.35		
DC 6	+28.0	+12.2	+3.18	+3.20	+31.6	+8.15	+3.90	+2.18		
DC 7	+32.6	+1.5	+0.60	+0.40	+34.0	+8.80	+2.56	+4.60		
DC 8	+26.5	+12.3	+3.40	+3.20	+32.0	+8.60	+3.80	+1.60		
DC AVG.	44.96	10.19	3.919	2.923	34.88	9.286	3.991	3.106	100.4	
AC 1	42.0	9.50	3.71	2.74	33.6	8.46	3.66	2.82	100.0	
AC 2	✓	✓	✓	✓	✓	✓	✓	✓	✓	
AC AVG.										
S.P.	-1.0				-1.6					
AC NOISE	.04				.09					
POT RES.										