1986

QUEEN CREEK ADMS SURVEY NOTES

Index

Bench Loops

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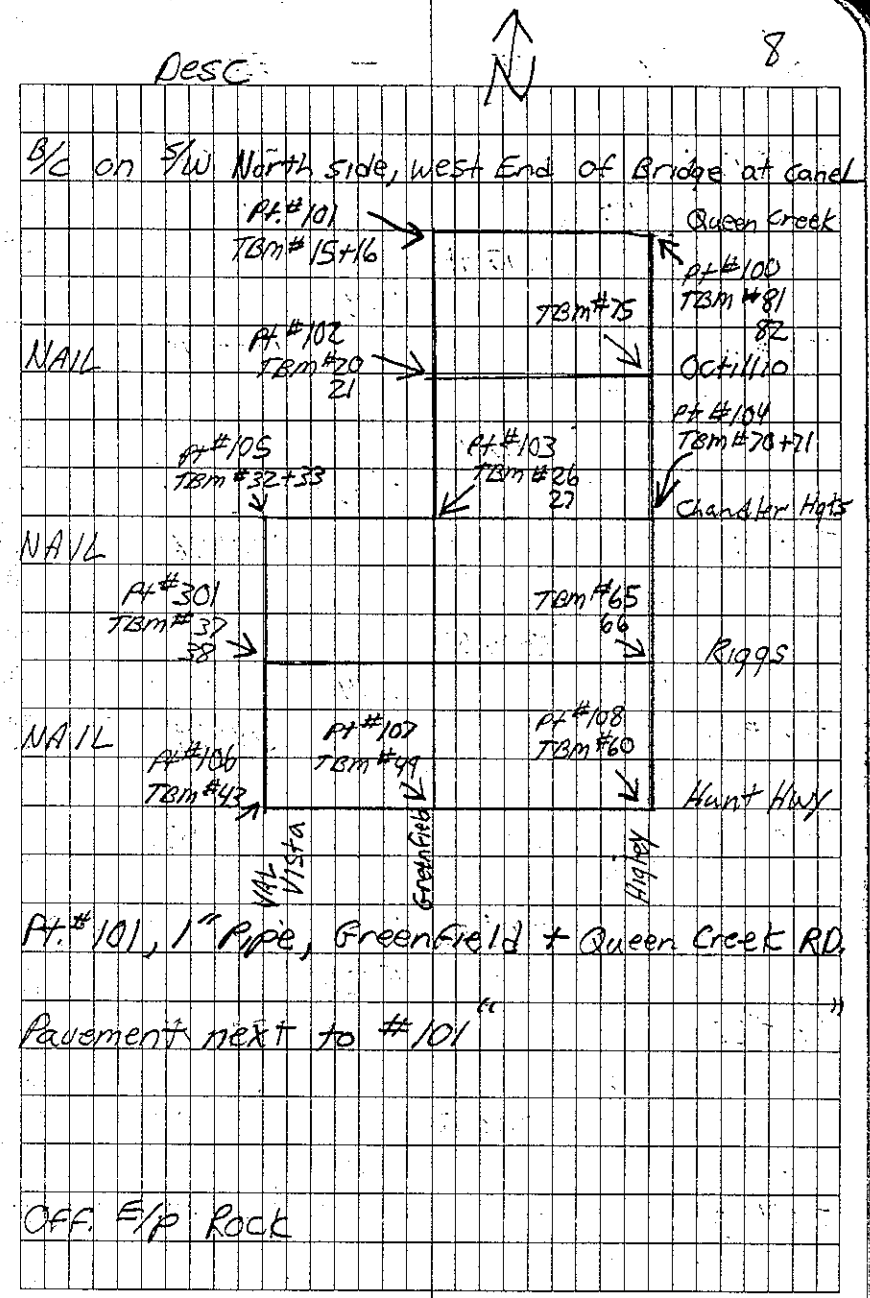
Sta	+	π	−	Elev.		Desc.
T.P. #6				1314.96		NAIL
	3.40					
		1318.36				
			2.73			
T.B.M. #7				1315.63		Center of Bridge, EAST Side, Back of walk Black Box w/Paint
	0.58					
		1316.21				
			4.76			
T.P. #8				1311.45		NAIL
	5.80					
		1317.25				
			5.24			
T.P. #9				1312.01		NAIL
	5.61					
		1317.62				
			2.80			
T.B.M #10				1314.82	(1315.12)	B.C. W. end of Bridge N. Side QUEEN CREEK BRIDGE AT RWCD FWY CTR
			2.76			
T.BM #11				1314.86	(1315.18)	B.C. E. end of Bridge N. Side

STA	+	⊼	−	ELEV.	DESC.
BM#1				(1321.77)	MCHD BC FLUSH @ SE. COR.
	3.27				BRIDGE (STAMPED 1325.11)
		1325.04			RITTENHOUSE RD. & RWCD
			6.75		
TP#2				1318.29	Top of concrete canal
	4.15				
		1322.44			
			4.55		
T.P.#3				1317.89	NAIL
	3.92				
		1321.81			
			5.43		
T.P.#4				1316.38	NAIL
	4.81				
		1321.19			
			6.00		
T.P.#5				1315.19	NAIL
	5.13				
		1320.32			
			5.36		
T.P.#6				1314.96	NAIL

Sta	+	⊼	−	Elev.	
TBM #10				1315.12	
	0.33				
		1315.45			
			7.27		
T.P. #12				1308.18	
	3.22				
		1311.40			
			7.34		
T.P. #13				1304.06	
	1.55				
		1305.61			
			7.25		
T.P. #14				1298.36	
	4.36				
		1302.72			
			5.81		
T.B.M #15				1296.91	1296.92
	↑		5.73		
TBM #16				1296.99	1297.00
	7.07				
		1303.98			
			4.01		
T.P. #17				1299.97	



Sta	+	π	−	Elev.		Desc.
J.P. #17				1299.97		Rock on E/P
	7.44					
		1307.41				
			4.46			
T.P. #18				1302.95		NAIL
1	4.89					
		1307.84				
			5.86			
T.P. #19				1301.98		NAIL
2	4.55					
		1306.53				
			6.14			
TBM #20				1300.39	1300.40	Pt. #102, Aluminum Cap, Greenfield + Ocotillo
3	↑		6.01			
TBM #21				1300.52	1300.53	Pavement next to #102
	5.14					
		1305.53				
			5.26			
T.P. #22				1300.27		NAIL
4	6.36					
		1306.63				
			5.93			
T.P. #23				1300.70		NAIL
5						

STA	+	↑	−	Elev.		Desc:
T.P. #23				1300.70		NAIL
5	4.61					
		1305.31				
			5.23			
T.P. #24				1300.08		NAIL
6	7.66					
		1307.74				
			1.73			
T.P. #25				1306.01		Rock on E/P
7	2.44					
		1308.45				
		↑	1.14			
T.B.M. #26				1307.31	1307.33	Pt. #103, B.C. in H.H., Greenfield + Chandler Heights.
8			0.48			
T.B.M. #27				1307.97	1307.99	Pavement next to #103.
			7.63			
T.P. #28				1300.82		NAIL
9	0.99					
		1301.81				
			7.57			
T.P. #29				1294.24		NAIL
10						

STA	+	↑	−	ELEV	
T.P. #29				1294.24	
10	3.54				
		1297.78			
			5.69		
T.P. #30				1292.09	
11	3.00				
		1295.09			
			7.48		
T.P. #31				1287.61	
12	4.26				
		1291.87			
			7.11		
TBM #32	↑			1284.76	1284.79
17			7.06		
TBM #33				1284.81	1284.84
	4.05				
		1288.81			
			6.25		
T.P. #34				1282.56	
14	4.77				
		1287.33			
			5.66		
T.P. #35				1281.67	
15					

Desc

NAIL

NAIL

NAIL

Pt. #105, 2" Pipe, Chandler Heights & Val Vista

Pavement next to #105

NAIL

NAIL

Sta	+	↑	−	Elev.		Desc
T.P. #35				1281.67		NAIL
16	4.85					
		1286.52				
			5.80			
T.P. #36				1280.72		NAIL
16	4.92					
		1285.64				
			6.50			
T.B.M #37				1279.14	1279.18	½" R-Bar, Val Vista + R1995. Pt. #301
17			6.34			
TBM #38				1279.30	1279.34	Pavement next to #301
	6.13					
		1285.27				
			4.36			
T.P. #39				1280.91		NAIL
15	5.99					
		1286.90				
			4.30			
T.P. #40				1282.60		NAIL
19	7.41					
		1290.01				
			2.37			
T.P. #41				1287.64		NAIL
20						

Sta	+	I	−	Elev		Desc
T.P. #41				1287.64		NAIL
22	5.60					
		1293.24				
			4.32			
T.B.M #42	↑			1288.92	1288.97	Chisled "X" on H.D. wall 8° N.E. of Pt. #106
21						
T.BM #43				1288.69	1288.74	Pt #106 H+T, came off of TBM #42 w/ Linter Rod
	7.14					
		1296.06				
			0.56			
T.P. #44				1295.50		NAIL
22	7.89					
		1303.39				
			0.75			
T.P. #45				1302.64		NAIL
23	7.66					
		1310.30				
			1.26			
T.P. #46				1309.04		NAIL
24	7.77					
		1316.81				
			0.63			
T.P. #47				1316.18		NAIL
25						

Sta	+	⊼	−	Elev.	Desc.
T.P. #47				1316.18	
25	7.65				NAIL
		1323.83			
			0.25		
T.P. #48				1323.58	
26	7.51				NAIL
		1331.09			
			2.37		
T.B.M. #49				1328.72	1328.78
27	↑				H+T Pt. #107
T.B.M. #50			2.49	1328.60	1328.68
	1.86				B.C. Reference corner, 75° S.E. of Hub
		1330.58			2° South of Fence.
			7.91		
T.P. #51				1322.67	
28	3.81				NAIL
		1326.48			
			7.76		
T.P. #52				1318.72	
29	7.73				NAIL
		1326.45			
			0.54		
T.P. #53				1325.91	
30					NAIL

STA	+	π	−	ELEV.	DESC
T.P. #53				1325.91	NAIL
30	7.15				
		1333.06			
			2.75		
T.P. #54				1330.31	NAIL
31	7.84				
		1338.15			
			0.05		
T.P. #55				1338.10	NAIL
32	7.36				
		1345.46			
			1.15		
T.P. #56				1344.31	NAIL
33	7.60				
		1351.91			
			0.14		
T.P. #57				1351.77	NAIL
34	7.48				
		1359.25			
			2.10		
T.P. #58				1357.15	
35					

STA	+	⊼	−	ELEV.	
T.P. #58				1357.15	
⊠	7.05				
		1364.20			
			0.88		
T.P. #59				1363.32	
36	6.88				
		1370.20			
			5.10		
T.B.M. #60				1365.10	1365.18
37	1.17				
		1366.27			
			7.51		
T.P. #61				1358.76	
38	1.10				
		1359.86			
			7.74		
T.P. #62				1352.12	
39	0.80				
		1352.92			
			7.26		
T.P. #63				1345.66	
40					

DESC
NAIL
NAIL
P.K. nail @ #108
NAIL
NAIL
NAIL

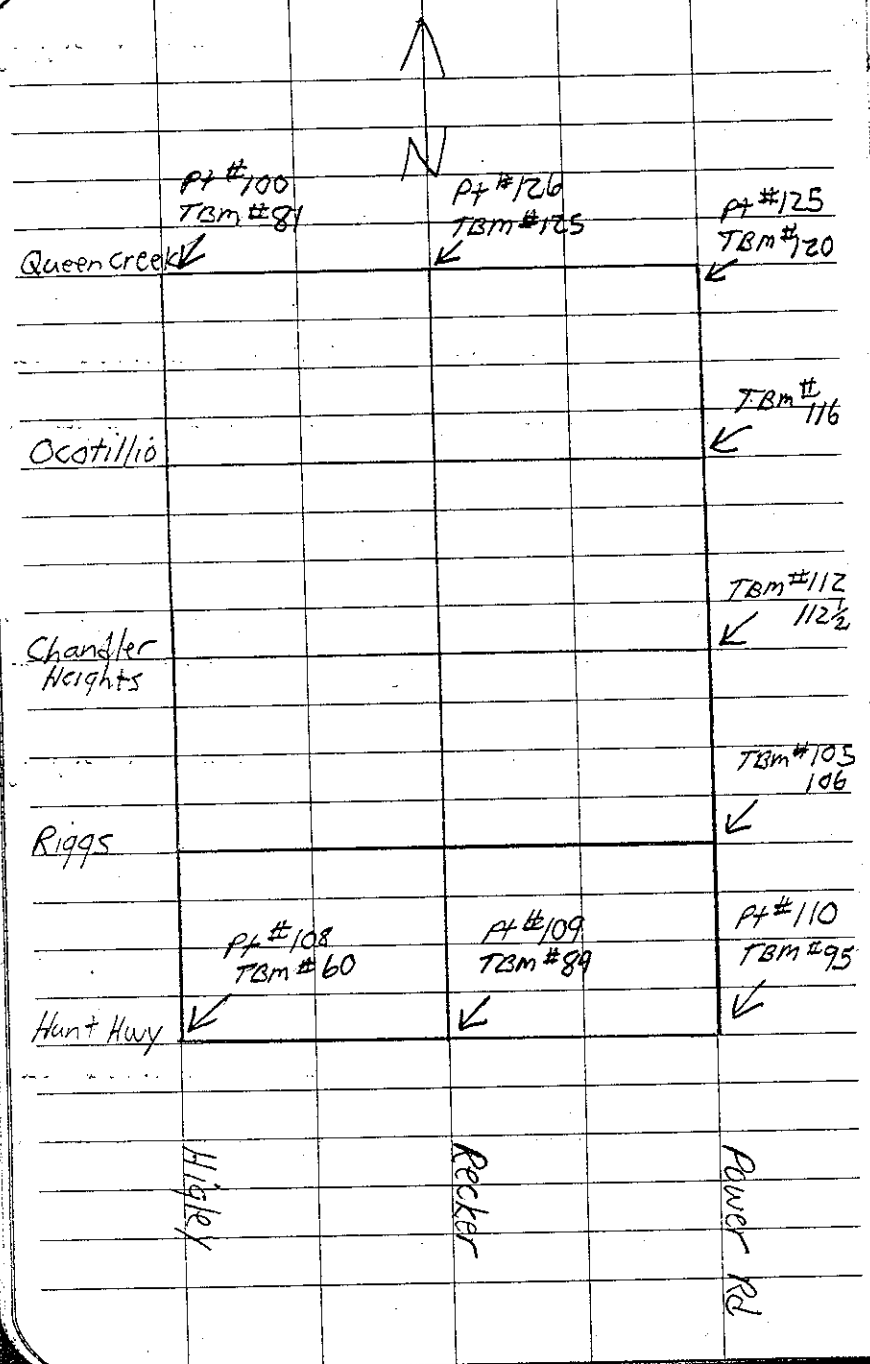
Sta	+	HI	−	Elev.	
T.P. #63				1345.66	
40	1.65				
		1347.31			
			7.82		
T.P. #64				1339.49	
41	2.00				
		1341.49			
			7.48		
T.B.M #65				1334.01	1334.10
42	↑		6.87		
T.B.M #66				1334.62	1334.71
	3.63				
		1337.64			
			7.72		
T.P. #67				1329.92	
43	1.99				
		1331.91			
			7.11		
T.P. #68				1324.80	
44	1.31				
		1326.11			
			7.45		
T.P. #69				1318.66	
45					

Desc.	−
NAIL	
NAIL	
End 1" Pipe, Higley + Riggs	
Pavement next to pipe, Higley + Riggs	
NAIL	
NAIL	
NAIL	

Sta	+	I	−	Elev.		Desc
T.P. #69				1318.66		NAIL
US	3.71					
		1322.37				
			6.05			
T.B.m #70				1316.32	1316.41	B.C. Pt. #104 Higley + Chandler Heights
46			5.57			
T.B.m #71				1316.80	1316.89	Pavement, Higley + Chandler Heights Pt. #104
	5.34					
		1321.66				
			4,65			
T.P. #72				1317.01		NAIL
47	4.78					
		1321.79				
			5,10			
T.P. #73				1316.69		NAIL
48	4,17					
		1320.86				
			4.59			
T.B.M. #74				1316.27	1316.37	NAIL on P.P. 2nd P.P. From North
49			5.15			
T.B.m #75				1315.71	1315.81	B.C. in H.H., around Oct. Nio + Higley
T.B.m #76	Shot	w/Linker	Rod	1316.71	1316.81	Pavement next to H.H. Shot w/ Linker Rod

STA	+	I	−	Elev.		DESC
T.B.M #75				1315.71		B.C. in H.H.; Octi/lo + Higley around
49	6.59					
		1322.30				
			0.82			
T.P. #77				1321.48		NAIL
50	7.07					
		1328.55				
			2.95			
T.P. #78				1325.60		NAIL
51	7.48					
		1333.08				
			6.08			
T.P. #79				1327.00		NAIL
52	1.01					
		1328.01				
			7.68			
T.P. #80				1320.33		NAIL
53	3.99					
		1324.32				
			6.42			
T.B.M #81				1317.90	1318.01	Pt. #100 B.C. in H.H.
54			5.51			
T.B.M #82				1318.81	1318.92	Pavement next to Pt #100

Sta	+	I	−	Elev.		Desc.
T.B.M #81				1317.90	1318.01	Rt #100 B.C. in H.H.
55	2.68					
		1320.58				
			5.57			
T.B.M #10				1315.01	1315.12	B.C. on S/W North side, West End of Bridge at Canal
	End of Bench Run					



Crew of J. Martin
T. Kendall

Sta	+	↑	−	Elev.	
T.B.M #60				1365.09	1365.18
	7.65				
		1372.74			
			1.38		
T.P. #82				1371.36	
1	8.00				
		1379.36			
			0.08		
T.P. #83				1379.28	
2	7.54				
		1386.82			
			0.27		
T.P. #84				1386.55	
3	7.32				
		1393.87			
			1.45		
T.P. #85				1392.42	
4	7.91				
		1400.33			
			0.29		
T.P. #86				1400.04	
5					

DESC:

PK #108 P.K. NAIL Hunt Hwy + Higley

NAIL

NAIL

NAIL

NAIL

NAIL

Sta	+	↑	−	Elev.	
T.P. #86				1400.04	
	7.89				
		1407.93			
			0.40		
T.P. #87				1407.53	
	7.48				
		1415.01			
			0.91		
T.P. #88				1414.10	
	7.72				
		1421.82			
			4.43		
T.B.M #89				1417.39	1417.38
			1.13		
T.B.M #90				1420.69	1420.68
	7.77				
		1428.46			
			1.14		
T.P. #91				1427.32	
	7.54				
		1434.86			
			1.06		
T.P. #92				1433.80	

Desc.
NAIL
NAIL
NAIL
Pt. #109 H+T Hunt + Hwy + Recker
Nail in P.P. 62° S.E. of Pt. #109
NAIL
NAIL

STA	+	π	−	Elev		Desc
T.P. #92				1433.80		NAIL
" 10	7.60					
		1441.40				
			1.14			
T.P. #93				1440.26		NAIL
"	7.88					
		1448.14				
			1.99			
T.P. #94				1446.15		NAIL
" 12	6.59					
		1452.74				
			4.36			
T.B.M. #95				1448.38	1448.37	Pt. #116, P.K. NAIL Hunt Hwy + Power Rd
" 15	0.80					
		1449.18				
			7.87			
T.P. #96				1441.31		NAIL
" 14	1.18					
		1442.49				
			7.14			
T.P. #97				1435.35		NAIL
" 15						

STA	+	⊼	−	ELEV.	DESC
T.P.#97				1435.35	NAIL
15	1.24				
		1436.59			
			7.88		
T.P.#98				1428.71	NAIL
14	1.35				
		1430.06			
			7.53		
T.P.#99				1422.53	NAIL
17	1.10				
		1423.63			
			7.53		
T.P.#100				1416.10	NAIL
18	1.11				
		1417.21			
			7.90		
T.P.#101				1409.31	NAIL
19	0.57				
		1409.88			
			7.97		
T.P.#102				1401.91	NAIL
20					

Sta	+	↑	−	Elev.	
T.P. #102				1401.91	
20	0.77				
		1402.68			
			7.57		
T.P. #103				1395.11	
21	0.72				
		1395.83			
			5.58		
T.P. #104				1390.25	
22	2.57				
		1392.82			
			6.38		
T.B.m. #105				1386.44	1386.42
23	↑		5.87		
T.B.m. #106				1386.95	1386.93
	0.59				
		1387.03			
			7.90		
T.P. #107				1379.13	
24	1.36				
		1380.49			
			7.90		
T.P. #108				1372.59	
25					

Desc
NAIL
NAIL
NAIL
½" R.BAR, in H.H. Riggs + Power
Pavement next to H.H. Riggs + Power
NAIL
NAIL

Sta	+	⊼	−	Elev.	Desc
T.P. #108				1372.59	NAIL
29	0.56				
		1373.15			
			7.79		
T.P. #109				1365.36	NAIL
26	1.76				
		1367.12			
			7.59		
T.P. #110				1359.53	NAIL
27	1.60				
		1361.13			
			6.71		
T.P. #111				1354.42	NAIL
28	4.35				
		1358.77			
			5.85		
T.B.M. #112				1352.92 1352.89	½" R-BAR in H.H. Power + Chandler Heights
25	↑		5.17		
				1353.60 1353.57	Pavement next to H.H. Power + Chandler Hgts
	5.04				
		1357.96			
			5.26		
T.P. #113				1352.70	P.K. NAIL, E. Side, Power at Via de Oro
30					

Sta	+	HI	−	Elev.	
T.P. #113				1352.70	
30	4.01				
		1356.71			
			4.89		
T.P. #114				1351.82	
31	4.63				
		1356.45			
		-	5.95		
T.P. #115				1350.50	
32	5.48				
		1355.98			
			3.37		
TBM #116				1352.61	1352.58
33	2.74				
		1355.35			
			4.90		
T.P. #117				1350.45	
34	2.55				
		1353.00			
			7.36		
T.P. #118				1345.64	
35					

Desc.

RR Nail, E. Side Power + Via de Oro

NAIL

NAIL

B.C. Flush, Ochoa + Power

NAIL

NAIL

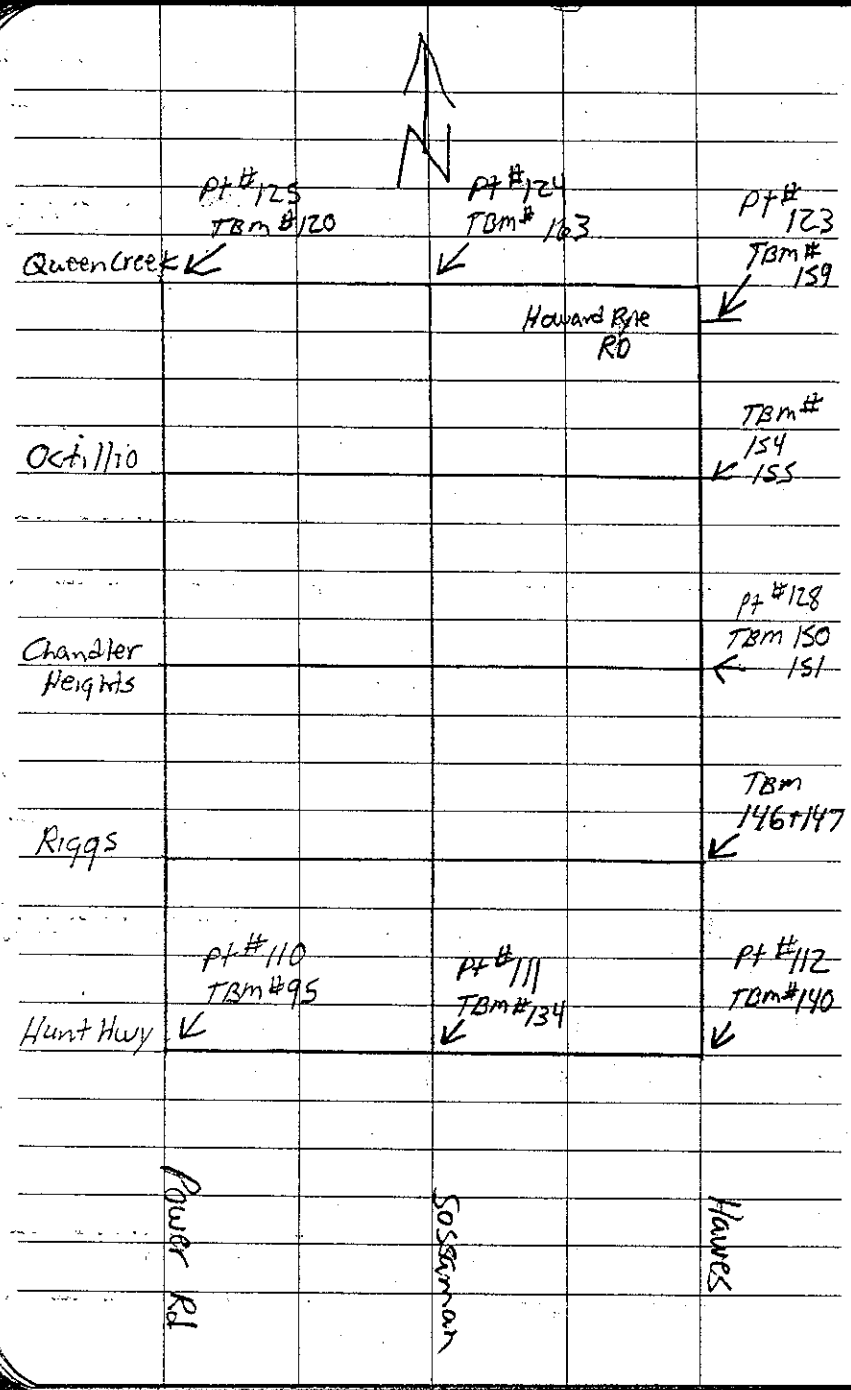
STA	+	π	−	ELEV.	
T.P. #118				1345.64	
36	3.02				
		1348.66			
			5.14		
T.P. #119				1343.52	
36	7.91				
		1351.43			
			0.57		
T.B.M #120				1350.86	1350.83
37			6.98		
T.P. #121				1344.45	1344.42
	2.10				
		1346.55			
			7.33		
T.P. #122				1339.22	
32	4.46				
		1343.68			
			7.56		
T.P. #123				1336.12	
33	2.18				
		1338.30			
			6.10		
T.P. #124				1332.20	
40					

Desc	
NAIL	
NAIL	
Pt. #125 P.K. NAIL	Power Rd + Just N. of Bridge
NAIL	
NAIL	
NAIL	
NAIL	

Sta	+	π	−	Elev.	
T.P.#124				1332.20	
40	4.36				
		1336.56			
			7.15		
TBM#125				1329.41	1329.37
41			6.97		
TBM#126				1329.59	1329.55
	3.76				
		1333.17			
			6.53		
T.P.#127				1326.64	
42	3.74				
		1330.38			
			1.75		
T.P.#128				1328.63	
43	5.37				
		1334.00			
			7.61		
T.P.#129				1326.39	
44	0.52				
		1326.91			
			7.65		
T.P.#130				1319.26	
45					

Desc	
NAIL	
Pt.#126 : H+T	Rector + Queen Creek South of Wash
Chisled "X" on E. side of Ditch, 15° W. of Pt. 126	
NAIL	
NAIL	
NAIL	
NAIL	

STA	+	↑	−	Elev.		Desc
T.P. #130				1319.26		NAIL
45	4.55					
		1323.81				
			5.76			
TBM #81				1318.05	1318.01	Pt. #100 B.C. in H.H.
45						
	End of Bench Run					



Crew J. Martin
J. Kendall

STA	+	I	−	Elev.	Desc
				1448.37	
TBM #95				1448.44 (Adjusted)	Pt. #110, P.K. NAIL, Power + Hunt Hwy
	4.86				
		1453.30			
			5.28		
T.P. #131				1448.02	NAIL
1	4.99				
		1453.01			
			3.94		
T.P. #132				1449.07	NAIL
2	6.60				
		1455.67			
			6.64		
T.P. #133				1449.03	NAIL
3	3.32				
		1452.35			
			5.00		
TBM #134				1447.35 (38) 1447.32	Pt. #111, H+T, Sossman + Hunt Hwy
			6.64		
TBM #135				1445.71 (64) 1445.68	NAIL in P.P., N.E corner Sossman + Hunt Hwy on Sossman Rd.
			5.23		
T.P. #136				1447.12 (08) 1447.09	NAIL.
4					

STA	+	π	—	Elev		Desc
T.P.#136				1447.12		NAIL
4	2.84					
		1449.96				
			7.19			
T.P.#137				1442.77		NAIL
5	2.36					
		1445.13				
			6.84			
T.P.#138				1438.29		NAIL
6	1.19					
		1439.48				
			7.96			
T.P.#139				1431.52		NAIL
7	3.04					
		1434.56				
			6.78			
TBM#140				1427.~~78~~ 71	1427.79	Pt.# 112, NAIL Near Hunt Hwy + Hawes
			5.09			
TBM#141				1429.~~47~~ 40	1429.48	NAIL in R.P. 44^{S} N.E. of Pt.# 112
8	1.01					
		1428.79				
			7.98			
T.P.#142				1420.81		NAIL
9						

SHOULD BE →

CAME OFF →

STA	+	π	−	ELEV		DESC
T.P. #142				1420.81		NAIL
9	1.11					
		1421.92				
			10.32			
T.P. #143				1411.60		NAIL (Philly Rod)
10	0.41					
		1412.01				
			10.20			
T.P. #144				1401.81		NAIL
11	1.68					
		1403.49				
			9.54			
T.P. #145				1393.95		NAIL
12	1.19					
		1395.14				
			9.10			
TBM #146	↑			1386.04 (5.97)	1386.10	½" R.Bar in Pot Hole Hawes + Riggs Rd
TBM #147				1387.95 (88)	1388.01	Pavement next to Pot Hole Hawes + Riggs
13	4.69					
		1390.73				
			4.35			
T.P. #148				1386.38		NAIL
14						

STA	+	⊼	−	Elev.	
T.P.#148				1386.38	
14	6.52				
		1392.90			
			5.95	1386.95	
T.P.#149				~~1388.64~~	
15	3.99	1390.94			
		~~1392.63~~			
			6.90	1384.04 (3.97)	
				~~1385.73~~	1384.12
TBM#150	↑				
			6.15	1384.79 (.73)	
TBM#151				~~1386.48~~	1384.87
16	4.93	1388.97			
		~~1390.66~~			
			6.06	1382.91	
T.P.#152				~~1384.60~~	
17	4.35	1387.26			
		~~1388.95~~			
			5.86	1381.40	
T.P.#153				~~1383.09~~	
18	5.17	1386.57			
		~~1388.26~~			
			5.39	1381.18 (11)	
TBM#154				~~1382.87~~	1381.29
			5.32	1381.25 (.75)	
TBM#155				~~1382.94~~	1381.36
19					

Desc.

NAIL

NAIL

Pt. #128 B.C. in H.H. Chandler Hgts + Hawes

Pavement next to ~~Pt~~ #128, Chandler Hgts + Hawes

NAIL

NAIL

B.C. Ocotillo + Hawes

Pavement Ocotillo + Hawes

Sta	+	T	−	Elev.	
				1381.18	
TBM #154				~~1382.87~~	1381.29
	3.60	1384.78			
		~~386.47~~			
			6.89	1377.89	
TP #156				~~1375.58~~	
20	4.26	1382.15			
		~~1383.84~~			
			6.30	1375.85	
TP #157				~~1377.54~~	
21	4.61	1380.46			
		~~1382.15~~			
			5.36	1375.10	
TP #158				~~1376.79~~	
22	5.03	1380.13			
		~~1381.82~~		1375.~~86~~ 10	
			4.57	~~1377.25~~	
TBM #159					1375.~~86~~
23	2.29	1377.85			
		~~1379.54~~			
			7.39	1370.46	
TP #160				~~1372.15~~	
24					

Desc.

B.C. Flush Octrimo + Hawes

NAIL

NAIL

NAIL

#123 PK NAIL Howard Pile
Hawes

NAIL

STA	+	↑	−	ELEV
				1370.46
TP #160				~~1372.15~~
24	2.54	1373.00		
		~~1374.69~~		
			6.41	1366.59
TP #161				~~1368.28~~
25	1.15	1367.74		
		~~1369.43~~		
			6.27	1361.47
T.P. #162				~~1363.16~~
26	2.96	1364.43		
		~~1366.12~~		
			5.11	1359.32 25
T.P.#163				~~1361.01~~ 1359.51
27	2.29	1361.61		
		~~1363.30~~		
			5.62	1355.99
TP #164				~~1357.68~~
28	3.05	1359.04		
		~~1360.73~~		
			6.73	1352.31
TP #165				~~1354.00~~
29				

Pesc

NAIL

NAIL

NAIL

#124 PK NAIL

NAIL

NAIL

Dec

STA	+	HI	-	ELEV	ADJ ELEV
				1352.31	
TP#165				~~1354.00~~	
29	3.42	1355.73			
		~~1357.42~~			
			6.99	1348.74	
TP#166				~~1350.43~~	
30	5.51	1354.25			
		~~1355.94~~		~~53~~	
			3.65	1350.60	1350.83
TBM#120				~~1352.29~~	~~1350.08~~
31					

End of Bench Run

NAIC

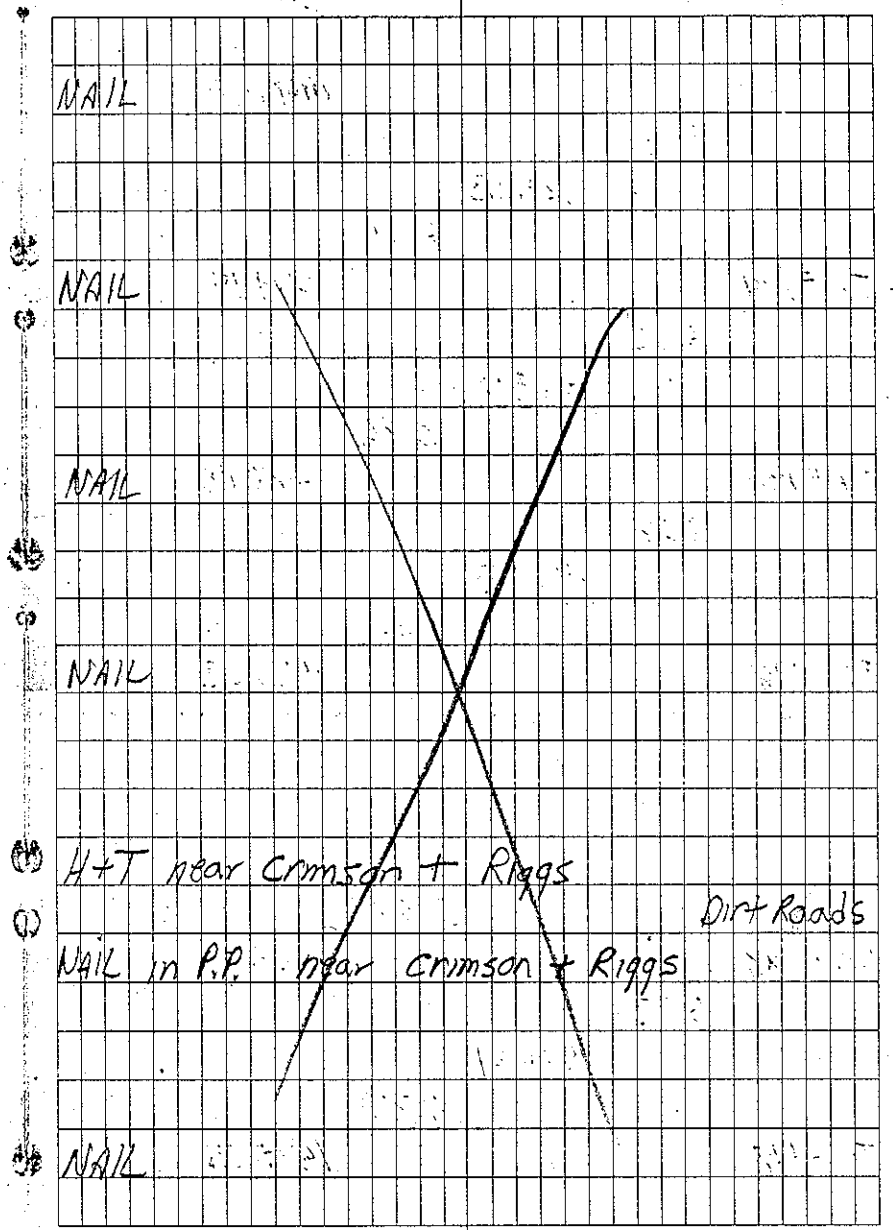
NAIC

#125 PK Nail Ranch RD
N of Bridge

STA	+	π	−	ELEV.	DESC.
TBM #140				1427.84	
	1.91				
		1429.75			
			4.77		
T.P. # 167				1424.98	
	7.83				
		1432.81			
			1.64		
T.P. # 168				1431.17	
	9.09				
		1440.26			
			2.52		
T.P. # 169				1437.74	
	7.30				
		1445.04			
			3.37		
TBM # 170				1441.67	
	7.65				
		1449.32			
			3.44		
T.P. # 171				1445.88	
					Pt. # 112 Nail, Near Hunt Hwy + Hawes
					NAIL
					NAIL
					NAIL
					Pt. # 113 P.K nail (gone), Ellsworth + Power Lines Shot Pavement Center of Panel.
					NAIL

STA	+	π	−	ELEV	DESC.
T.P. #171				1445.88	NAIL
	6.30				
		1452.18			
			0.75		
T.P. #172				1451.43	NAIL
	7.93				
		1459.36			
			2.04		
T.P. #173				1457.32	NAIL
	6.00				
		1463.32			
			3.55		
TBM #174				1459.77	Pt. # 114 H+T Near Power Lines + Crimson
			2.28		
TBM #175				1461.04	NAIL in P.P. 27.5 N. of Pt. # 114
			9.98		
T.P. #176				1453.40	NAIL
	1.84 ↑				
		1455.24			
			8.59		
T.P. #177				1446.65	NAIL

Sta	+	π	−	Elev.
T.P. #177				1446.65
	1.15			
		1447.80		
			8.81	
T.P. #178				1438.99
	0.30			
		1439.29		
			10.16	
T.P. #179				1429.13
	2.16			
		1431.29		
			5.67	
T.P. #180				1425.62
	2.28			
		1427.90		
			6.68	
TBm #181				1421.22
			5.85	
TBm #182				1422.05
	3.12			
		1424.34		
			5.22	
T.P. #183				1419.12



Sta	+	HI	−	Elev.	Desc
T.P. #183				1419.12	NAIL
	5.71				
		1424.83			
			5.64		
T.P. #184				1419.19	NAIL
	4.72				
		1423.91			
			3.96		
T.P. #185				1420.05	NAIL
	3.68				
		1423.73			
			6.65		
TBM #186				1417.08	Dirt Roads, H + T, Near Crimson + Chandler Hgts X Panel
			5.57		
T.P. #187	↑			1418.16	NAIL
	3.01				
		1421.17			
			5.87		
T.P. #188				1415.30	NAIL
	4.39				
		1419.69			
			4.30		
TBM #189				1415.39	½" Pipe Flush Crimson + Ochillo V Panel

STA	+	π	−	Elev.	Desc
TBm #189				1415.39	1" Pipe Flush Crimson + Ocotillo
	3.45				
		1418.84			
			5.50		
T.P. #190				1413.34	NAIL
	5.16				
		1418.50			
			6.10		
T.P. #191				1412.40	NAIL
	5.53				
		1417.93			
			5.58		
TBm #192				1412.35	B.C. in H.H., X Panel, Crimson + Queen Creek PI # 121
			5.16		
TBm #193				1412.77	Pavement next to H.H.
	2.33				
		1414.68			
			7.06		
T.P. #194				1407.62	NAIL
	1.60				
		1409.22			
			6.71		
T.P. #195				1402.51	NAIL

Sta	+	⊼	−	Elev.	Desc.
TBm #195				1402.51	
	2.22				
		1404.73			
			6.27		
T.P. #196				1398.46	
	2.81				
		1401.27			
			6.40		
TBm #197				1394.87	
			6.04		
TBm #198				1395.23	
	1.58				
		1396.45			
			7.83		
T.P. #199				1388.62	
	3.95				
		1392.57			
			7.50		
T.P. #200				1385.07	
	3.17				
		1388.24			
			7.93		
T.P. #201				1380.31	

NAIL

NAIL

B.C. in H.H. Pt. #122 Queen creek + Ellsworth

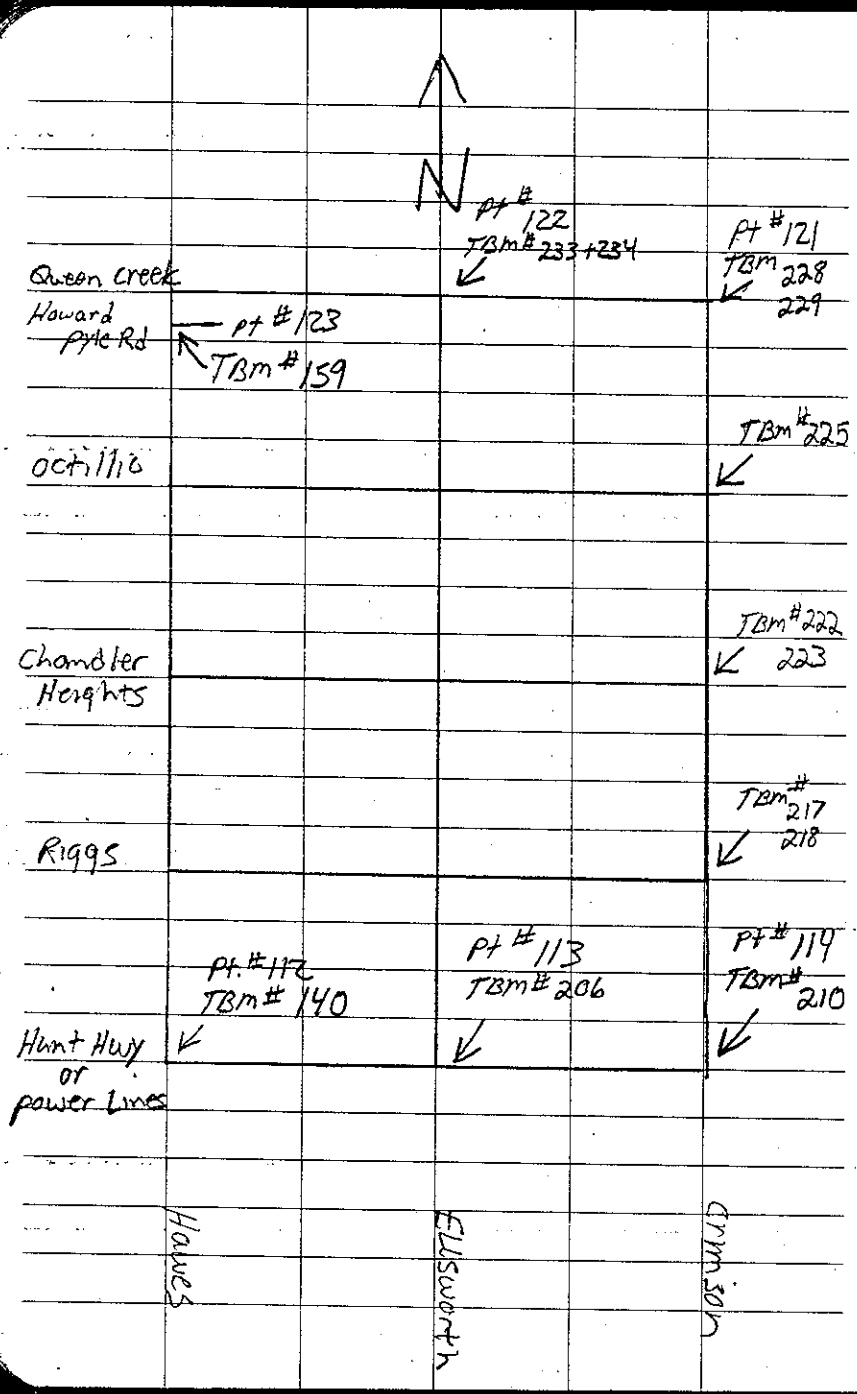
Pavement next to H.H. Queen creek + Ellsworth

NAIL

NAIL

NAIL

STA	+	π	−	Elev	Desc
T.P. # 201				1380.31	NAIL
	3.59				
		1383.90			
			3.87		
T.P. # 202				1380.03	NAIL
	3.99				
		1384.02			
			4.50		
TBM. # 159				1379.52	P.K. NAIL, X panel Howard Pyle + Hawes
				1375.75	
			OFF	3.77	


N
pt # 122
TBm # 233 + 234
pt # 121
TBm 228
229
Queen Creek
Howard
Pyle Rd
pt # 123
TBm # 159
TBm # 225
Ocotillo
TBm # 222
223
Chandler
Heights
TBm # 217
218
Riggs
pt # 112
TBm # 140
pt # 113
TBm # 206
pt # 114
TBm # 210
Hunt Hwy
or
power Lines
Hawes
Ellsworth
Crimson

STA	+	Π	−	Elev.	Desc
				~~1427.79~~	
TBM #140				1427.84	Pt. #112 NAIL Hunt + Hawes
	1.81				
		1429.65			
			4.70		
T.P. #203				1424.95	NAIL
1	7.32				
		1432.27			
			1.20		
T.P. #204				1431.07	NAIL
2	9.79				
		1440.86			
			1.90		
T.P. #205				1438.96	NAIL
3	6.31				
		1445.27			
			3.60		
TBM #206				~~1441.67~~ 62 1441.29	Pt. #113 R.R. nail gone, Hunt + Ellsworth Shot Pavement in panel
4	7.30				
		1448.97			
			3.10		
T.P. #207				1445.87	NAIL
5					

STA	+	IT	−	ELEV.	DESC
TP #207				1445.87	NAIL
	6.06				
		1451.93			
			1.08		
TP #208				1450.85	NAIL
6	7.95				
		1458.80			
			2.61		
T.P. #209				1456.19	NAIL
7	7.43				
		1463.62			
			3.78		
TBM #210				1459.84 1459.73	PK # 114 H+T Power Limit Crimson
			2.51	ca	
TBM #211				1461.14 1461.00	Nail in PR 27 ± N. of PK # 114
			10.15	42	
T.P. #212	↑			1453.47 1453.36	NAIL
8	1.85				
		1455.32			
			9.66		
TP #213				1445.66	NAIL
9					

STA	+	T	−	ELEV	DESC
T.P.# 213				1445.66	NAIL
	1.79				
		1447.45			
			9.17		
T.P.# 214				1438.28	NAIL
10	1.42				
		1439.70			
			9.86		
T.P.# 215				1429.84	NAIL
11	1.88				
		1431.72			
			6.61		
T.P.# 216				1425.11	NAIL
12	3.66				
		1428.77			
			7.54		
TBM# 217	↑			1421.23 18 / 1421.10	H+T, V. Panel near Crimson + Riggs
			6.70		
TBM# 218				1422.07 02 / 1421.92	NAIL in P.P. " "
13	3.03				
		1424.26			
			5.25		
T.P.# 219				1419.01	NAIL
14					

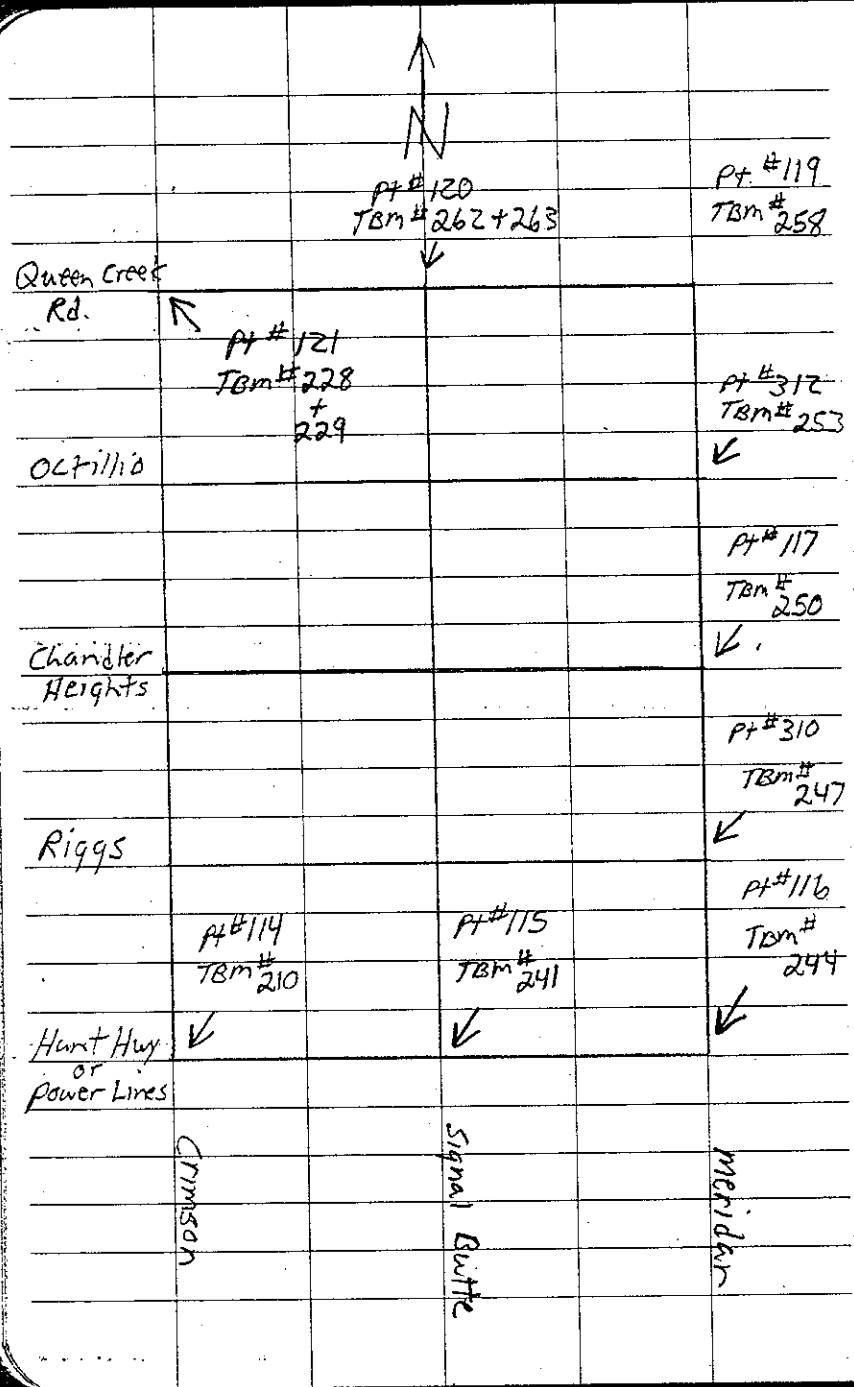
STA	+	⊼	—	Elev.		Desc
TP. #219				1419.01		NAIL
	5.73					
		1424.74				
			5.44			
TP. #220				1419.30		NAIL
15	4.70					
		1424.00				
			3.90			
TP. #221				1420.10		NAIL
16	3.39					
		1423.49				
			6.44			
TBM #222				1417.~~05~~ 00	1416.87	H+T, X Panel, Crimson + Chandler Hats
			6.96			
TP. #223	↑			1416.~~53~~ 48	1416.35	NAIL
17	4.94					
		1421.47				
			6.04			
TP. #224				1415.43		NAIL
18	4.10					
		1419.53				
			4.25			
TBM #225				1415.~~28~~ 23	1415.08	1" Pipe Flush, V Panel, Crimson + Octillio
19						

STA	+	⊼	−	ELEV.	
TBM #225				1415.28	~~1415.19~~
	2.90				
		1418.18			
			4.90		
TP #226				1413.28	
20	5.08				
		1418.36			
			5.99		
TP #227				1412.37	
21	5.33				
		1417.70			
			5.42		
TBM #228				1412.~~28~~ 23	1412.~~18~~ 06
			5.01		
TBM #229				1412.~~68~~ 63	1412.~~58~~ 46
22	3.05				
		1415.33			
			5.80		
TP #230				1409.53	
23	2.49				
		1412.02			
			7.51		
TP #231				1404.51	
24					

Desc.	
1" Pipe Flush	Crimson + Ocotillo
NAIL	
NAIL	
At #121 B.C. in H.H.	Crimson + Queen Creek
Pavement next to At #121	
NAIL	
NAIL	

STA	+	HI	−	Elev.	Desc
TP #231				1404.51	NAIL
	2.46				
		1406.97			
			7.52		
TP #232				1399.45	NAIL
25	3.15				
		1402.60			
			7.80	~~75~~ 55	
TBM #233				1394.80 ~~1394.68~~	B.C. in H.H. Pt #122 Queen Creek + Ellsworth
	↑			14 1394.94	
			7.41		
TBM #234				1395.19 ~~1395.07~~	Pavement next to Pt #122
26	1.54				
		1396.73			
			8.01		
TP #235				1388.72	NAIL
27	3.20				
		1391.92			
			7.49		
TP #236				1384.43	NAIL
28	3.32				
		1387.75			
			7.67		
TP #237				1380.08	NAIL
29					

STA	+	⊼	−	Elev.	Desc
TP #237				1380.08	NAIL
	3.43				
		1383.51			
			7.09		
TP #238				1376.42	NAIL
30	4.26				
		1380.68			
			4.79	84	
TBM #159				1375.~~89~~ (1375.61)	P.K. nail, X panel, Howard Fyke + Hawes
	Check in should be			~~1375.75~~	-.23
				1375.61	



Crew: J Martin
J Kendall

Sta	+	T	−	Elev.	Desc.
				1459.73	
TBM #210				~~1459.80~~	Pt. # 114 H+T, Power Lines + Crimson X Panel
	6.39				
		1466.19			
			4.39		
TP. #239				1461.80	NAIL
1	3.55				
		1465.35			
			7.09		
TP. #240				1458.26	NAIL
2	2.96				
		1461.22			
			5.18	55.97	
TBM #241				1456.04	1455.93 Pt. # 115, NAIL, near Signal Butte + Power Lines X Panel
3	5.69				
		1461.73			
			5.42		
TP. #242				1456.31	NAIL
4	5.06				
		1461.37			
			3.79		
TP. #243				1457.58	NAIL
5					

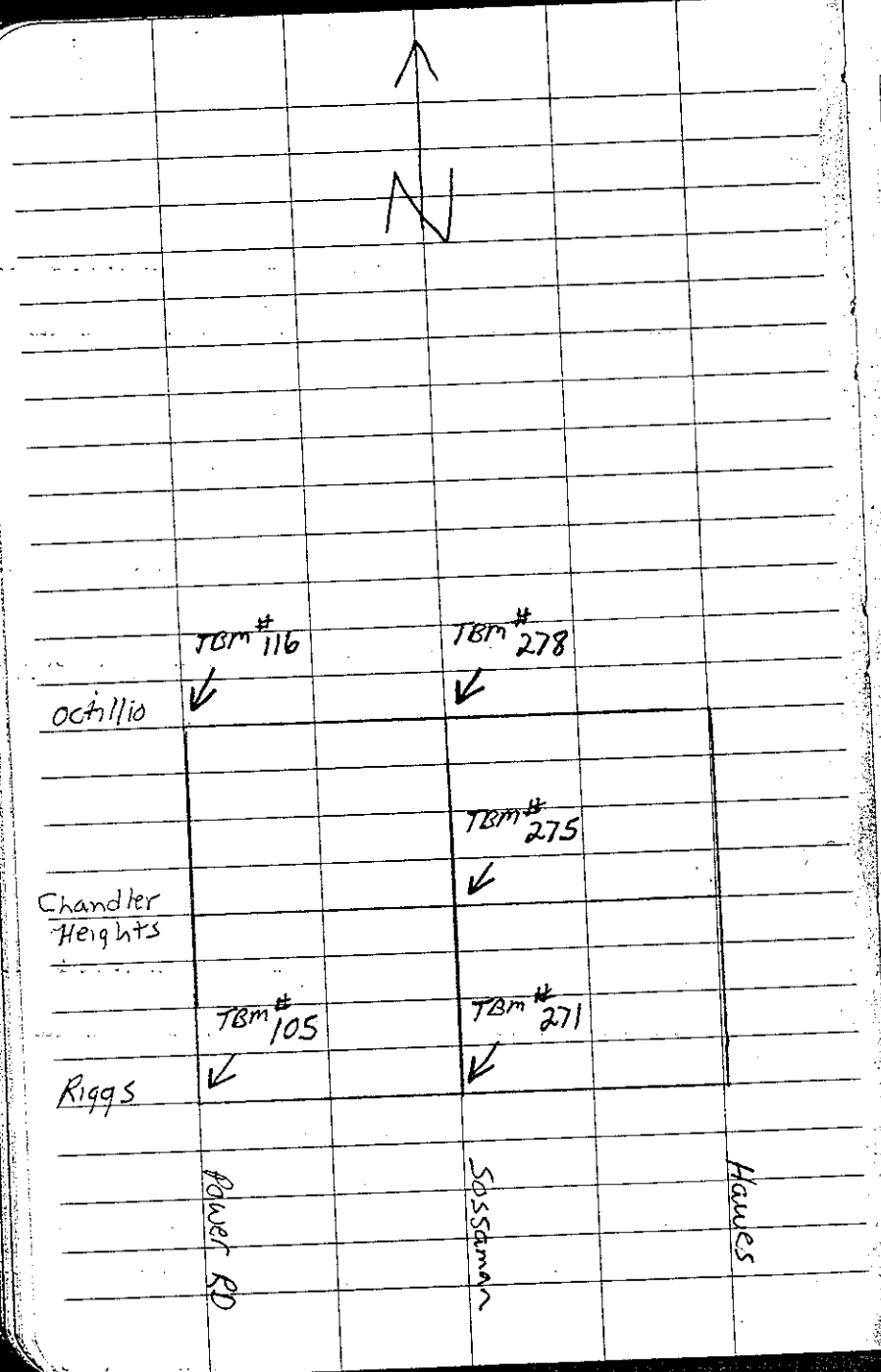
STA	+	HI	−	Elev.	Desc
TP #243				1457.58	NAIL
5	7.47				
		1465.05			
			4.33	65	
TBM #244				1460.72 / 1460.57	Pt # 116 H+T, Power Lines + Meridan
6	5.07				X Panel
		1465.79			
			4.40		
TP #245				1461.39	NAIL
7	5.25				
		1466.64			
			6.42		
T.P. #246				1460.22	NAIL
8	3.17				
		1463.39			
			3.25	07	
TBM #247				1460.14 / 1459.95	Pt # 310 V. Panel, Pk nail, Riggs Rd + Meridan
7	3.96				
		1464.10			
			5.65		
TP #248				1458.45	NAIL
10					

Sta	+	⊼	−	Elev.		Desc
TP #248				1458.45		NAIL
10	5.95					
		1464.40				
			7.07			
TP #249				1457.33		NAIL
11	5.31					
		1462.64				
			6.00	57		
TBM #250				1456.64	1456.41	Pt. #117 H+T, near Chandler Hgts + Meridian X Panel
12	6.60					
		1463.24				
			7.70			
TP #251				1455.54		Nail in A.P.
13	4.51					
		1460.05				
			5.19			
TP #252				1454.86		NAIL
14	4.75					
		1459.61				
			5.85	69		
TBM #253				1453.76	1453.49	Pt. #312, H+T, Octillo + Meridian V Panel
15						

Sta	+	π	−	Elev.	Desc
TBM #253				1453.76	Pt #312 H+T Ochillo + meridian
15	5.44				
		1459.20			
			4.48		
TP #254				1454.72	NAIL
16	4.95				
		1459.67			
			6.54		
TP #255				1453.13	NAIL
17	5.52				
		1458.65			
			7.89	69	
TBM #256				1450.76	1450.45 B.C. - Queen Creek + meridian
18			8.01		
T.P #257				1450.64	NAIL
	4.91				
		1455.55			
			5.43	05	
TBM #258				1450.12	1449.79 Pt #N9 H+T Queen Creek + meridian
19	1.30				X Panel
		1451.42			
			7.96		
TP #259				1443.46	NAIL
20					

STA	+	⊼	−	Elev.	Desc
TP #259				1443.46	NAIL
20	2.93				
		1446.39			
			7.41		
TP #260				1438.98	NAIL
21	2.98				
		1441.96			
			7.19		
TP #261				1434.77	NAIL
22	4.28				
		1439.05			
			6.40		
TBM #262				1432.65 58 1432.27	Pt. #120 - B.C. in H.H. Signal Butte + Queen Creek
23			5.96		
TBM #263				1433.07 02 1432.71	Pavement next to H.H. "
	2.66				
		1435.31			
			7.96		
T.P. #264				1427.35	NAIL
27	1.70				
		1429.05			
			6.99		
TP #265				1422.06	NAIL
25					

STA	+	π	−	Elev	Desc
TP #265				1422.06	NAIL
26	2.97				
		1425.03			
			7.29		
T.P. #266				1417.74	NAIL
26	3.23				
		1420.97			
			6.20		
TP #267				1414.77	NAIL
27	4.18				
		1418.95			
			6.44		
TBM #228				1412.~~51~~ .44 (1412.06)	B.C. in H.H. Pt #121 Crimson + Queen Creek
28	Check in				
		Should be		~~1412.18~~ 1412.06	
			High	.38	



Bench Run

From: Power + Riggs

EAST to Sossman

North to Octillio

West to Power + Octillio

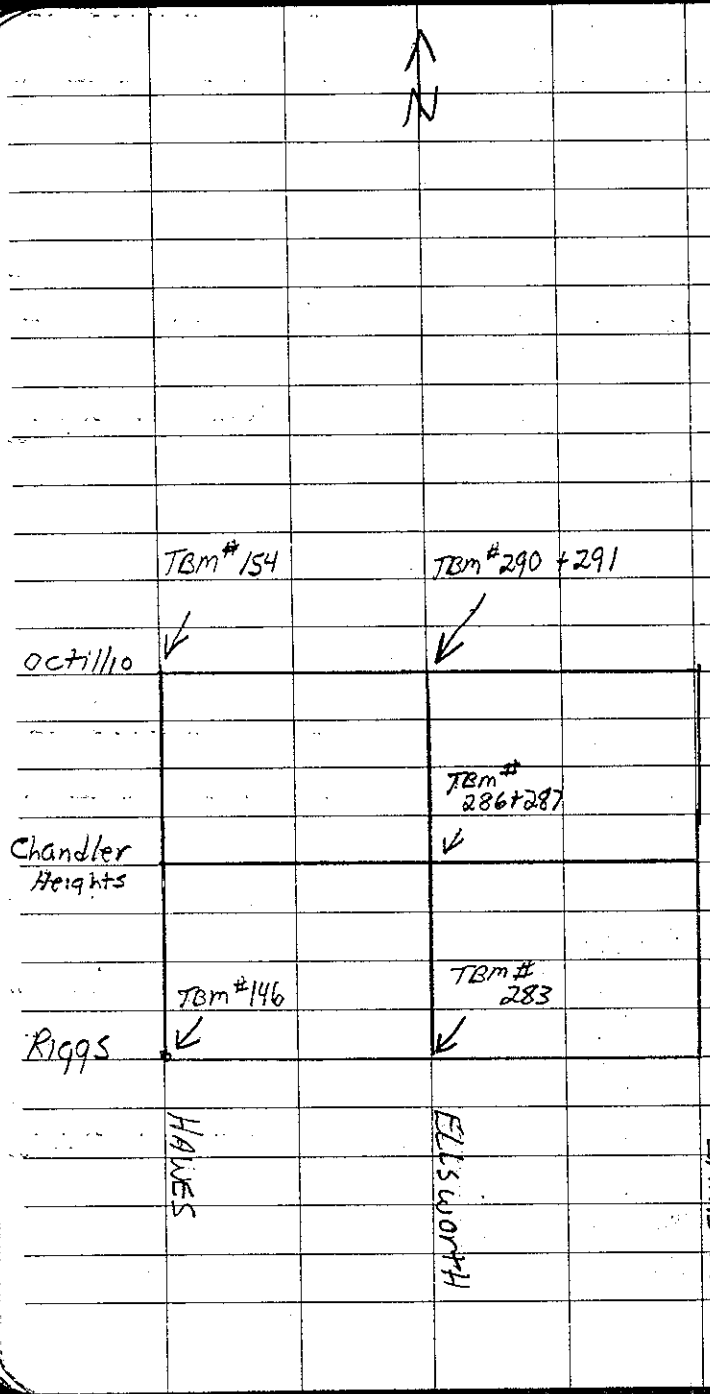
Crew - J. Martin
T. Kendall

Date 10-21-86

STA	+	π	−	Elev.	Desc
				1386.42	
TBM #105				~~1386.17~~	½" RBar in H.H. Riggs + Power Rd V Panel
	6.28				
		1392.75			
			4.25		
				1388.45 ~~50~~	NAIL
T.P. #268 1	5.70				
		1394.20			
			4.19		
				1390.01	NAIL
T.P. #269 2	4.65				
		1394.66			
			5.05		
				1389.61	NAIL
T.P. #270 3	4.23				
		1393.84			
			5.45		
				~~1388.39~~ 1388.44	¾" RBar, V Panel {V6} Riggs + Sossaman {¾" RBar 0 ~~36~~ 34 Above ground}
				~~1388.39~~ 1388.36	
TBM #271 4	2.19				
		1390.58			
			8.92		
				1381.66	NAIL
TP #272 5					

STA	+	⊼	−	Elev.	Desc
TP #272				1381.66	NAIL
	2.50				
		1384.16			
			7.80		
TP #273				1376.36	NAIL
6	2.31				
		1378.67			
			7.05		
T.P. #274				1371.62	NAIL
7	3.45				
		1375.07			
			6.47	5 1368.60	
TBM #275				1368.60/1368.63	PK #129, B.C. Flush, X panel, Chandler Heights + Sossaman
8	3.40				
		1372.00			
			5.54		
TP #276				1366.46	NAIL
9	5.60				
		1372.06			
			5.40		
TP #277				1366.66	NAIL
10					

Sta.	+	π	−	Elev.		Desc
TP #277				1366.66		NAIL
11	5.75					
		1372.41				
			4.46	90	1367.97	
TBM #278				1367.95	1368.00	B.C. Flush, V Panel #117, Octillio + Sossaman
12	0.98					
		1368.93				
			7.86			
TP #279				1361.07		NAIL
13	2.32					
		1363.39				
			5.71			
TP #280				1357.68		NAIL
14	0.96					
		1358.64				
			6.09			
TBM #116				1352.50	(1352.58)	B.C. Flush, V Panel Power Rd + Octillio
	End of Bench Run					
				1352.58		
		Should Be		1352.64		
			under	.06		



Bench Run

From: Hawes + Riggs

EAST TO Ellsworth

North to Octillio

Crew: J. Martin
J. Kendall

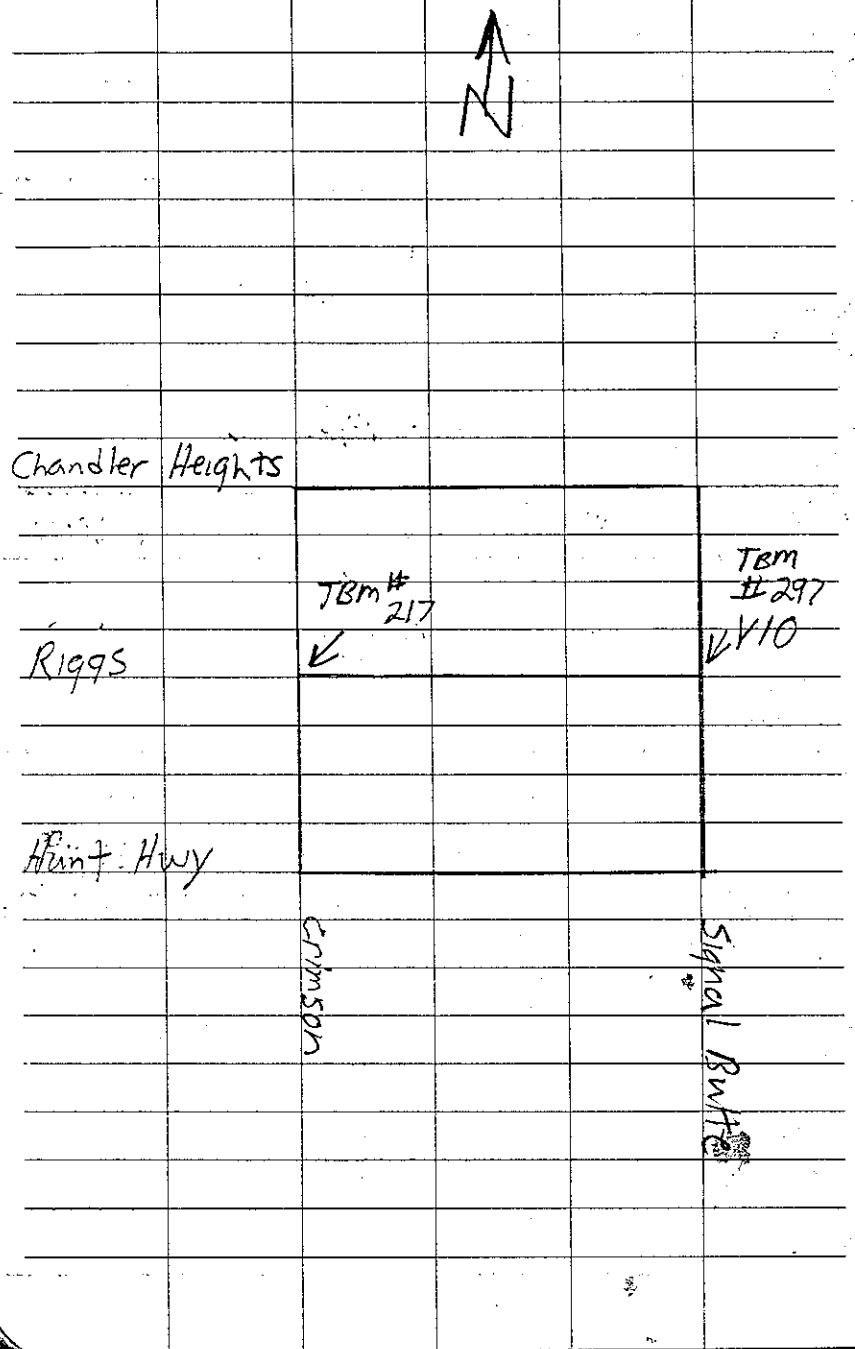
Date - 10-21-86

STA	+	↑	−	ELEV.	DESC.
				1386.10	
TBM #146				1386.14	½" RBar in H. H. Hawes + Riggs Rd
	6.80				V Panel
		1392.94			
			3.42		
TP #281				1389.52	NAIL
1	7.68				
		1397.20			
			1.25		
TP #282				1395.95	NAIL
2	7.29				
		1403.24			
			0.76	44	
TBM #283				1402.48	1402.46 P.K. NAIL, V Panel #V8, Ellsworth + Riggs
3	4.07				
		1406.55			
			4.33		
TP #284				1402.22	NAIL
4	4.40				
		1406.62			
			5.30		
TP #285				1401.32	NAIL
5					

STA	+	π	−	ELEV.	
TP #285				1401.32	
S	4.18				
		1405.50			
			4.88		
TBM #286				1400.63	1400.63
6	↑		4.52		
TBM #287				1400.99	1400.99
	4.04				
		1404.66			
			4.45		
TP #288				1400.21	
>	5.93				
		1406.14			
			7.66		
TP #289				1398.48	
8	6.05				
		1404.53			
			4.76		
TBM #290				1399.80	1399.80
			4.40		
TBM #291				1400.16	1400.16

DESC.	−
NAIL	
Pt #127, B.C. in H.H., X panel, Ellsworth + Chandler Hts	
Pavement next to H.H. Pt #127, Ellsworth + Chandler Hts	
NAIL	
NAIL	
B.C. in H.H., V panel # V15, Ellsworth + Octillio	
Pavement next to H.H., Ellsworth + Octillio	

Sta	+	π	−	Elev.	Desc
TBM #290				1399.77 73 1399.80	B.C. in H.H., V Panel #V15, Ellsworth + Octillio
9	1.53				
		1401.30			
			7.49		
TP #292				1393.81	NAIL
10	2.21				
		1396.02			
			6.77		
TP #293				1389.25	NAIL
11	2.87				
		1392.12			
			6.39		
TP #294				1385.73	NAIL
12	3.19				
		1388.92			
			7.69	19	
TBM #154				1381.23 (1381.29)	B.C. Flush, V Panel, Octillio + Hawes
13	End of Bench Run				
		Should Be:			



Crew: J Martin
J Kendall

Crimson + Riggs

EAST to Signal Butte V10

And then Back.

STA	+	π	−	Elev.	
				1421.10	
TBM #217				~~1421.17~~	
	7.54				
		1428.71			
			4.35		
TP #295				1424.36	
1	7.35				
		1431.71			
			2.47		
TP #296				1429.24	
2	9.30				
		1438.54			
			0.80	67	
TBM #297				1437.74	1437.66
3	.80				
		1438.54			
			6.94		
TP #298				1431.60	
4	2.45				
		1434.05			
			7.15		
TP #299				1426.90	
5					

Desc

H+T, V Panel Near Crimson + Riggs

NAIL

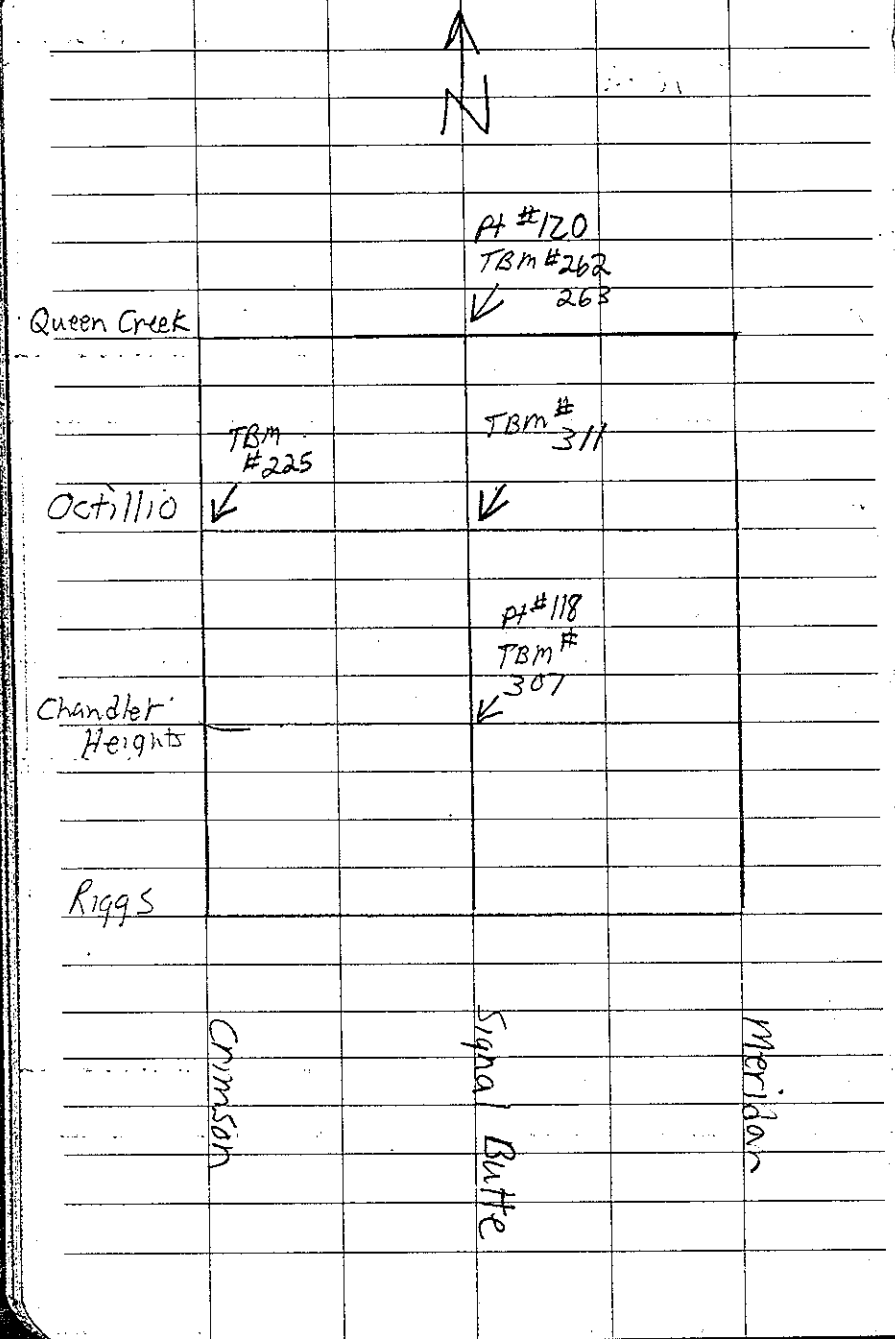
NAIL

V10, H+T Riggs + Signal Butte

NAIL

NAIL

STA	+	π	−	Elev.		Desc
TP #299				1426.90		NAIL
5	3.61					
		1430.51				
			7.56			
TP #300				1422.95		NAIL
6	4.60					
		1427.55				
			6.35			
TBM #217				1421.~~70~~ 13	1421.10	H+T, V Panel, Near Crimson + Riggs
7						
	Check in			1421.10		
	Should Be			~~1421.17~~		
			Over	.03		



Date: 10-23-86

Crew: J. Martin
J. Kendall

STA	+	⊼	−	Elev.	Desc.
				1415.08	
TBM #225				1415.19 / 1415.08	1" Pipe Flush, V Panel, Ochillo + Crimson
	7.36				
		1422.55			
			1.33		
TP #301				1421.22	NAIL
1	7.03				
		1428.25			
			3.19		
TP #302				1425.06	NAIL
2	7.67				
		1432.73			
			1.45		
TP #303				1431.28	NAIL
3	7.39				
		1438.67			
			3.03		
TP #304				1435.64	NAIL
4	6.95				
		1442.59			
			5.27		
TP #305				1437.32	NAIL
5					

STA	+	HI	−	Elev	
TP#305				1437.32	
5	6.25				
		1443.57			
			3.86		
TP#306				1439.71	
6	4.95				
		1444.66			
			3.04		
TBM#307				1441.62	1441.68
7			7.10		
TP#308				1437.56	
	4.63				
		1442.19			
			5.20		
TP#309				1436.99	
8	2.15				
		1439.14			
			7.94		
TP#310				1431.20	
9	3.29				
		1434.49			
			5.12		
TBM#311				1429.37	1429.50
10					

DESC
NAIL
NAIL
H+T, Pt #118, near Signal Butte + Chandler Hgts X panel
NAIL
NAIL
NAIL
PK nail, V Panel #V13, Oct 2010 + Signal Butte

STA	+	π	−	Elev		Desc	−
TBM #311				1429.~~37~~ 26	1429.50	PK NAIL, V13	Octillia + Signal Butte
10	5.80						
		1435.17					
			4.69				
TP #312				1430.48		NAIL	
11	5.92						
		1436.40					
			4.66				
TP #313				1431.74		NAIL	
12	6.45						
		1438.19					
PT			6.12				
~~TBM~~ #120				14~~32.07~~ 31.96	1432.27	B.C. in H.H.	
17							
		Check	in	1432.27			
		Should	Be	1432.65			

Sta	+	π	−	Elev.	
TBM #120				1432.65	1432.27
	6.12				
		1438.77			
			6.46		
TP #314				1432.31	
	4.57				
		1436.88			
			5.84		
TP #315				1431.04	
	4.29				
		1435.33			
			5.41		
TBM #316				1429.92	(1429.54)
	5.40				
		1435.32			
			1.90		
TP #317				1433.42	
	6.70				
		1440.12			
			0.82		
TP #318				1439.30	

'Desc
B.C. in H.H. P# #120
NAIL
NAIL
Pk. nail, V13 Octillo + Signal Butte
NAIL
NAIL in P.P., Painted w/Red 318.

10-24-86

B. Johnson
& mcPermott
P. Flood

	+	HI	-	ELEV	
TBM #26				1307.33	1307.33
	3.90	11.23			
TP #500 1			5.69	1305.54	
	4.73	10.27			
TP #501 2			5.54	1304.73	
	5.90	10.63			
TP #502 3			5.49	1305.14	
	5.67	10.81			
TP #503 4			6.05	1304.76	
	4.58	9.34			
T.P. #504 5			9.27	1300.07	

Desc	BK. ROD
Pannel +	
PT #103 BC IN H.H.	1307.33
Greenfield & Chandler Heads	9.76
	97.57
	7.97
NAIL	1305.54
	8.94
	96.60
	8.12
NAIL	1304.72
	7.75
	96.97
	8.17
NAIL	1305.14
	8.60
	97.14
	7.60
NAIL	1304.74
	9.10
	95.64
	10.40
NAIL	1300.04

	+	HI	-	ELEV		DESC	BK ROD
TP #504				1300.07		NAIL	1300.04
5							11.52
	8.16	8.23					94.52
6					1302.85		8.28
TP #505			5.37	1302.86	~~1302.87~~	V-2 H&T	1302.80
6						RIBB'S & GreenField	6.87
-	6.78	9.64				87' N of 4" cottonwood Tree	95.93
7						103.5' NE of P.P.	8.43
TP #506			5.25	1304.39			1304.36
7						NAIL	12.24
	7.43	11.82					98.12
8							10.85
TP #507			2.83	1308.99		NAIL	1308.97
8							6.71
	6.95	15.94					2.26
9							10.36
TP #508			3.30	1312.64		NAIL	1312.62
9							10.50
	9.17	21.81					8.12
10							9.47
TP #509			4.21	1317.60		NAIL	1317.59

	+	HI	-	ELEV	
T.P. #509				1317.60	
	7.31	24.91			
TP #510			2.93	1321.98	
-	7.78	29.76			
TP #511			2.67	1327.09	
-	8.13	35.22			
12 TP# 65			1.14	1334.08	1334.06 ~~1334.10~~
TP#65				1334.10	
	7.54	41.64			
15 TP#512			2.79	1338.85	

Desc	BK ROD
NAIL	1317.59
	12.35
	11.24
	10.73
NAIL	1321.97
	11.89
	16.08
	11.00
NAIL	1327.08
	11.55
	21.53
	12.52
V-3 1" pipe Higley & Riggs middle of street	1334.05
V-3	1334.10
	12.12
	27.98
	10.87
NAIL	1338.85

	+	HI	−	ELEV		Desc	BK Rod
TP #512				1338.85		NAIL	1338.85
75							7.23
−	6.43	45.28					31.62
							12.76
TP #513			0.90	1344.38		NAIL	1344.38
−	6.09	50.47					7.57
							36.87
							13.05
TP #514			0.63	1349.84		NAIL	1349.86
	6.48	56.32					7.16
							42.70
							11.35
TP #515			2.31	1354.01		NAIL	1354.05
−	7.10	61.11					6.58
							47.47
							11.46
TP #516			2.19	1358.92		NAIL	1358.93
−	8.00	66.92					11.67
20							53.26
							11.62
TP #517			2.04	1364.88	1364.86	V-4 Hub Riggs &	1364.88
						Recker N. Side of Riggs	
						4.6 N. of P.P. Line	
						22.7 E. of P.P.	

	+	HI	−	ELEV	
T.P. #517				1364.88	
20					
	0.56	65.44			
TP #518			9.00	1356.44	
21					
	1.54	57.98			
TP #519			7.73	1350.25	
22					
	3.00	53.25			
TP #520			9.40	1343.85	
	2.13	45.98			
TP #521			8.16	1337.82	
	3.05	40.87			
TP #522			7.98	1332.89	1332.86
25					

Desc	PK ROD
V-4	1364.88
	13.10
	51.78
	10.66
NAIL	1356.44
	12.12
	44.32
	11.92
NAIL	1350.24
	10.68
	39.56
	10.28
NAIL	1343.84
	11.54
	32.30
	11.51
	1337.81
	10.61
	27.20
	11.68
+ Pannel #131 P.K	1332.88
Recker & Chandler Hights	

STA	+	HI	−	ELEV.	Desc.
TP #522				1332.88	1332.86
25	5.28				
		1338.16			
			5.04		
TP #523				1333.12	
26	5.56				
		1338.68			
			6.56		
TP #524				1332.12	
27	4.75				
		1336.87			
			4.85		
TP #525				1332.02	
28	5.31				
		1337.33			
			3.49		
TBM #526				1333.84	(1333.80)
29	4.05				
		1337.89			
			5.80		
TP #527				1332.09	
30					

Pt. #131, Pk. nail, X panel, Recker + Chandler Hqts

NAIL

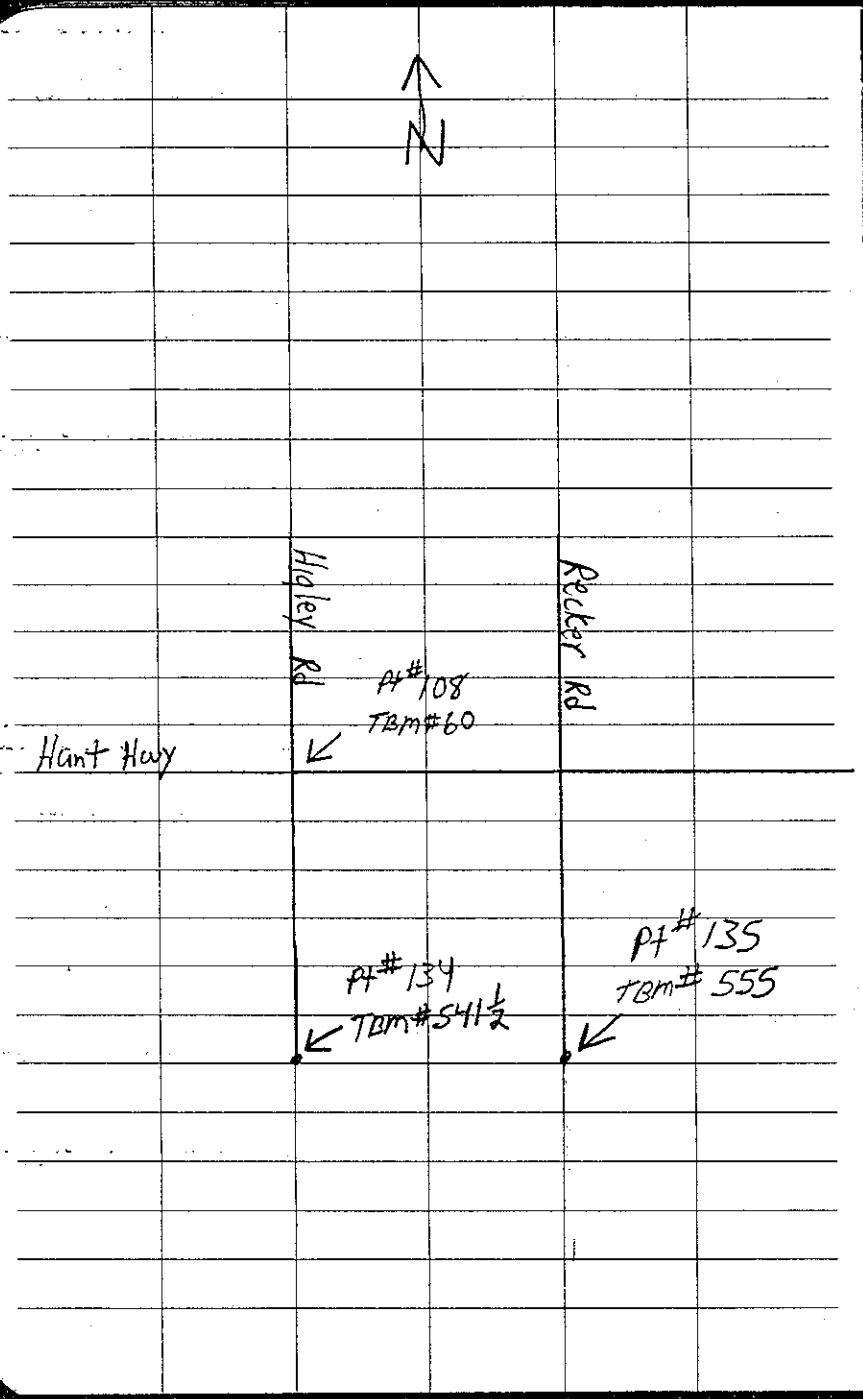
NAIL

NAIL

#V19, H+T, V Panel, Recker + Octi 110

NAIL

Sta	+	π	−	Elev.	Desc
TP #527				1332.09	NAIL
30	6.84				
		1338.93			
			5.38		
TP #528				1333.55	NAIL
31	4.47				
		1338.02			
			7.10		
TP #529				1330.92	NAIL
32	4.40				
		1335.32			
			5.91		
TBM #125				1329.41 (1329.37)	Pt. #126, H+T, X panel, Recker + Queen Creek



10-23-86

@ Arnoldy
T. Johnson

Turn 1	+	HI	−	Elev	Desc.
T.B. m 60				(1365 18)	Panel + PT 108 P.K. in E Road + Higley Rd & Hunt Hwy
	9 91	1375 09			
T.P. 530 1			1 90	1373 19	Nail
	10 28	1383 47			
T.P. 531 2			3. 22	1380 25	Nail
	1 97	1382 22			
T.P. 532 3			4 02	1378 20	Nail
	11. 97	1390 17			
* T.P. 533 4			1. 83	1388 34	Nail
	6 72	1395 06			
T.P. 534 5			5 56	1389 50	Nail
	6 17	1395 67			

13
BK Rod

Turn 2	+	HI	−	Elev
T.B.m. 605				1365.15
	9.91	1375.09		
T.P. 530			0.82	1374.27
	9.21	1383.48		
T.P. 531			4.68	1378.80
	3.42	1382.22		
T.P. 532			3.95	1378.27
	11.89	1390.16		
T.P. 533 *			1.62	1388.54
	6.50	1395.04		
T.P. 534			5.54	1389.50
	6.12	1395.62		

Panel + Pt 'YOE' P.K. in E Road Hagley Rd + Hunt Hwy

nail

nail

nail

nail

nail

Turn	+	HI	−	Elev	Desc.
	6.[illegible]	1395.67			
T.P. 53[illegible]			3.[illegible]	1392.13	Nail
	3.93	139[illegible]			
T.P. 5[illegible]			5.63	1390.13	
	6.46	1396.89			
T.P. [illegible]			0.[illegible]3		Nail
				1396.65	
	13.16	1409.82			
T.P. 538			0.46	1409.36	Nail
	12.31	1421.67			
T.P. 539			2.73	1418.94	Nail
	17.96	1436.90			
T.P. 540			0.14	1436.76	Nail
	21.02	1457.78			

Turn 2	+	HI	-	Elev
	6 13	1395 62		
T.P. 535			3 63	1391 99
	4 02	1396 01		
T.P. 536			5 15	1390 86
	5 98	1396 84		
T.P. 537			0 17	1396 67
	13 176	1409 80		
T.P. 538			1 00	1408 80
	12 68	1421 68		
T.P. 539			2 67	1419 01
	17 90	1436 91		
T.P. 540			0 68	1436 23
	21 57	1457 80		

Misc.

NA, 1

NA, 1

NA, 1

NA, 1

NA, 1

TURN 1	+	HI	−	ELEV
	21.03	1457.78		
T.P. 541			0.22	1457.56
	22.80	1480.36		
Panel 541½			6.57	1473.79
T.P. 523				1388.34
	7.28	1395.62		
T.P. [illegible]			6.19	1389.43
T.P. [illegible]			1.76	1394.26
	8.49	1402.75		
T.P. [illegible]			5.66	1397.09
	6.62	1403.71		
T.P. 544			2.73	1400.98

DESC

PANEL

HUT + PANEL PA #134

PANEL

CK ISBM 523 ±.02

PANEL

PANEL

PANEL

Turn 2	+	HI	-	Elev.
	21 57	1457 89		
T.P. 541			0 93	1456 87
	23 54	1480.41		
PAVE 541½			6 57	1473.84
T.P. 542				1389 54
	7 07	1395.61		
T.P. 524			6 10	V289 51
T.P. 543			1 41	1391 20
	8 54	1402 74		
T.P. 543			5 48	1397.26
	6 46	1403.72		
T.P. 544			2 94	1400.78

Desc

MAN HOLE

HOT + PAVE AT #134

MAN HOLE

MAN HOLE CK. VB59 50 ± .01

MAN HOLE

MAN HOLE

MAN HOLE

Turn	+	HI	−	Elev.	Desc.
T.P. 544			2.73	1400.98	
	7.78	1408.76			
T.P. 545			1.51	1407.25	
	12.82				
		1420.07			
			1.09		
T.P. # 546				1418.98	
	11.51				
		1430.49			
			1.47		
T.P. # 547				1429.02	
	12.86				
		1441.88			
			1.43		
T.P. # 548				1440.45	
	12.43				
		1452.88			
			0.61		
T.P. # 549				1452.27	
	12.61				
		1464.88			
			0.57		
T.P. # 550				1464.31	

RAIL

RAIL

NAIL

NAIL

NAIL

NAIL

NAIL

Turn 2	+	HI	−	Elev
B.M. #1			2.34	1406.75
	8.09	1408.75		
F.P. 545			1.46	1407.32
	12.77			
		1420.09		
			1.00	
TP #546				1419.09
	11.42			
		1430.51		
			1.40	
TP #547				1429.11
	12.79			
		1441.90		
			1.39	
TP #548				1440.51
	12.38			
		1452.89		
			0.45	
TP #549				1452.44
	12.46			
		1464.90		
			0.43	
TP #550				1464.47

NAIL

NAIL

NAIL

NAIL

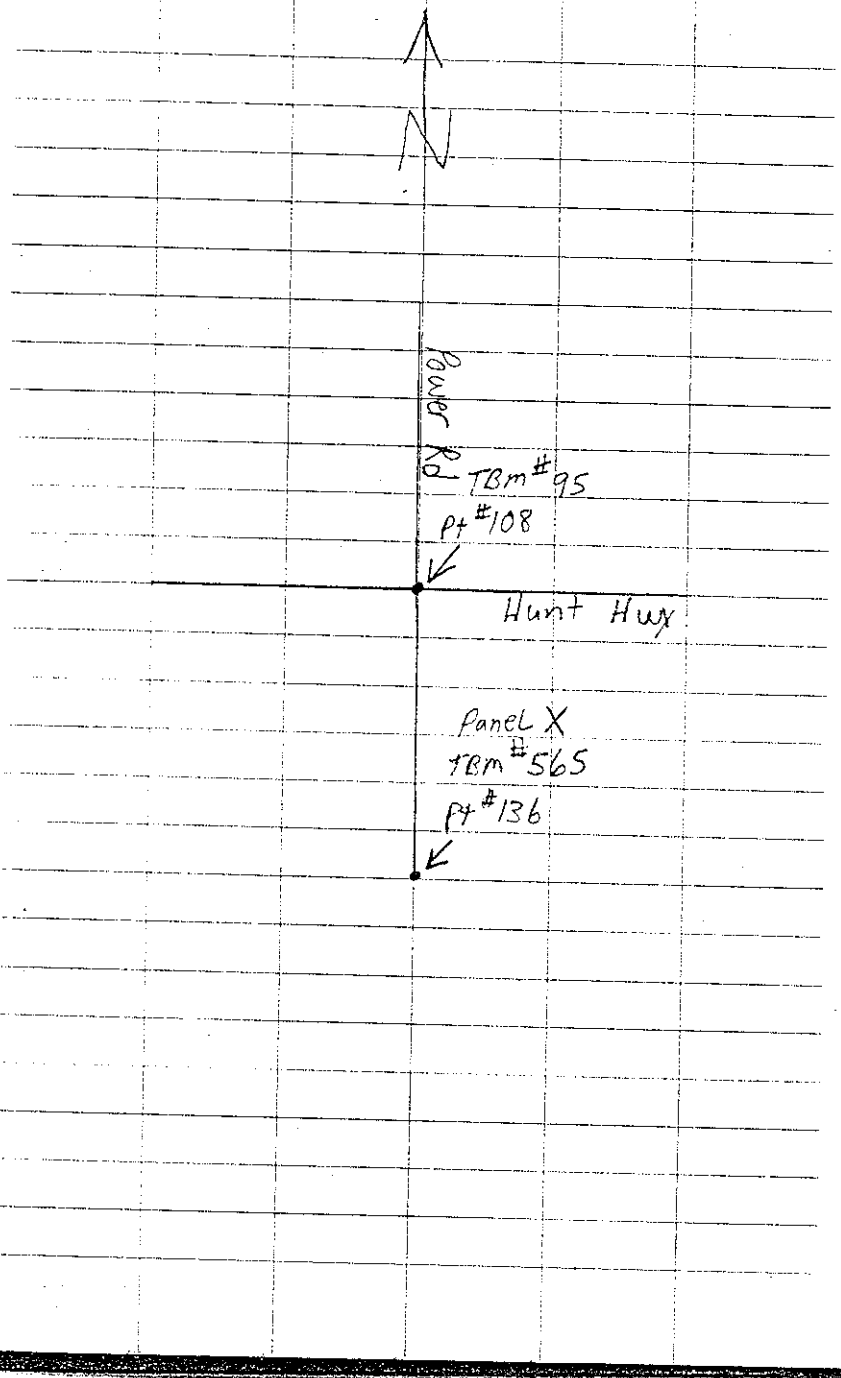
NAIL

NAIL

S.L.7

Turn #1	+	HI	−	Elev.	Desc
TP #550				1464.31	NAIL
	11.58				
		1475.89			
			1.23		
TP #551				1474.66	NAIL
	12.97				
		1487.63			
			0.97		
TP #552				1486.66	NAIL
	11.59				
		1498.25			
			0.35		
TP #553				1497.90	NAIL
	11.81				
		1509.71			
			0.38		
TP #554				1509.33	NAIL
	18.90				
		1528.23			
			5.57		
TP #555				1522.66	H+T, X Panel, Near Recker, 1 mile S. of Hunt

Turn #2	+	HI	−	Elev	Desc
TP #550				1464.47	
	11.43				
		1475.90			
			1.16		
TP #551				1474.74	
	12.95				
		1487.69			
			0.83		
TP #552				1486.86	
	11.45				
		1498.31			
			032		
TP #553				1497.99	
	11.78				
		1509.77			
			0.35		
TP #554				1509.42	
	18.86				
		1528.28			
			5.57		
TP #555				1522.71	
					NAIL
					NAIL
					NAIL
					NAIL
					NAIL
					H+T, X panel near Recker, 1 mile S. of Hunt



DATE: 10-28-86

Crew: J Martin
J Kendall

Turn #1	+	HI	−	Elev	Desc
TBM #95				1448.44	Pk #110, Pk. NAIL, Power + Hunt
	7.66				
		1456.10			
			2.96		
TP #556				1453.14	NAIL
	7.35				
		1460.49			
			0.76		
TP #557				1459.73	NAIL
	11.12				
		1470.85			
			0.22		
TP #558				1470.63	NAIL
	9.54				
		1480.17			
			1.06		
TP #559				1479.11	NAIL
	8.75				
		1487.96			
			1.30		
TP #560				1486.66	NAIL

Turn #2	+	HI	−	Elev.	Desc
TBM #95				1448.44	Pt #110, P.K. NAIL, Power + Hunt
	7.66				
		1456.10			
			2.87		
TP. #556				1453.23	
	7.27				
		1460.50			
			0.64		
TP. #557				1459.86	NAIL
	11.01				
		1470.87			
			0.11		
TP. #558				1470.76	NAIL
	9.42				
		1480.18			
			0.96		
TP #559				1479.22	NAIL
	8.75				
		1487.97			
			1.25		
TP #560				1486.72	NAIL

Turn #1	+	HI	−	Elev.	Desc
TP #560				1486.66	
	9.07				
		1495.73			
			1.91		
TP #561				1493.82	
	9.78				
		1503.60			
			2.71		
TP #562				1500.89	
	10.43				
		1511.32			
			2.17		
TP #563				1509.13	
	7.87				
		1517.02			
			0.78		
TP #564				1516.24	
	10.19				
		1526.43			
			4.72	1521.71	
TBm #565					

NAIL

NAIL

NAIL

NAIL

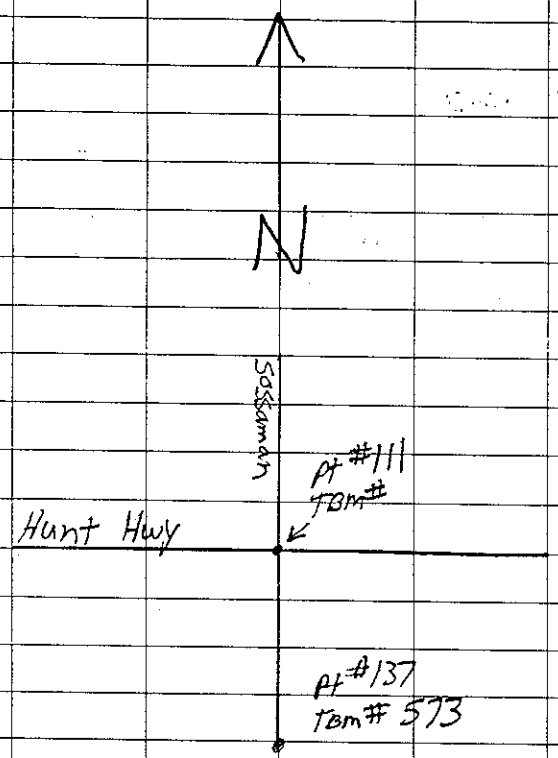
NAIL

Pt #136, H+T — Power Rd + 1 mile South of Hunt

Turn #2	+	HI	−	Elev	Desc
TP #560				1486.72	NAIL
	9.03				
		1495.75			
			1.79		
TP #561				1493.96	NAIL
	9.67				
		1503.63			
			2.58		
TP #562				1501.05	NAIL
	10.30				
		1511.35			
			2.01		
TP #563				1509.34	NAIL
	7.70				
		1517.04			
			0.70		
TP #564				1516.34	NAIL
	10.10				
		1526.44			
			4.72		
TBM #565				1521.72	Pt # 136, H+T, X panel, Power Rd 1+1 mile South of Hunt

Date : 10-25-86

Crew : J. Martin
T. Johnson



Turn #1	+	HI	−	Elev.	Desc	
TBm #				1447.37	Pt #111 A+T	Hunt + Sobsaman
	8.65					
		1456.02				
			1.40			
TP #566				1454.62	NAIL	
	10.90					
		1465.52				
			1.49			
TP #567				1464.03	NAIL	
	9.06					
		1473.09				
			2.01			
TP #568				1471.08	NAIL	Nails were ran over.
	12.09					
		1483.17				
			0.85			
TP #569				1482.32	NAIL	
	13.05					
		1495.37				
			1.93			
TP #570				1493.44	NAIL	

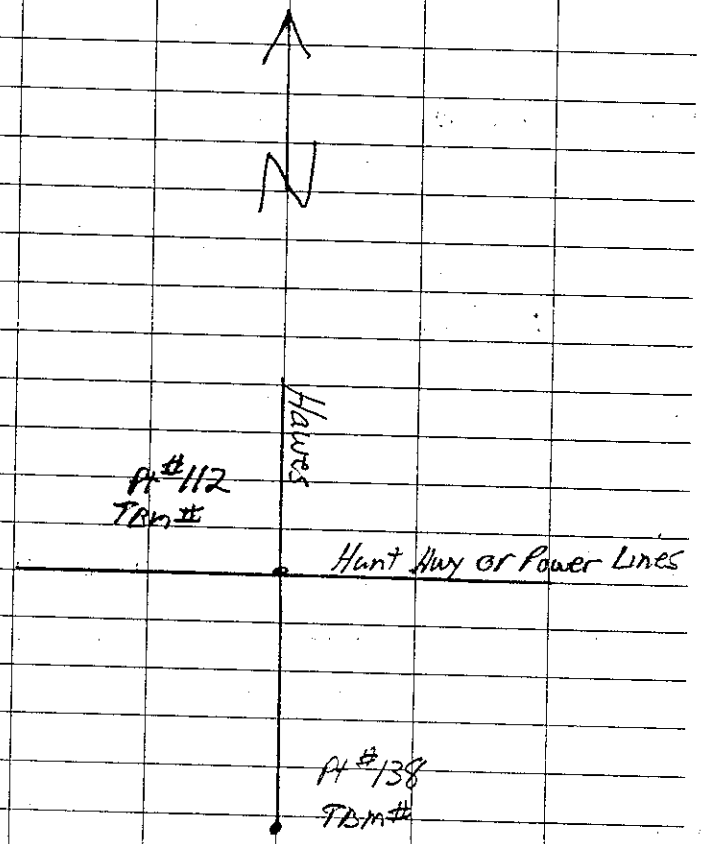
Turn #2	+	HI	−	Elev
TBM #				1447.37
	8.65			
		1456.02		
			1.36	
TP #566				1454.66
	10.85			
		1465.51		
			1.43	
TP #567				1464.08
	9.01			
		1473.09		
			1.96	
TP #568				1471.13
	12.06			
		1483.19		
			0.75	
TP #569				1482.44
	13.00			
		1495.44		
			1.91	
TP #570				1493.53

Desc: 30

PI #111	HH	Hunt + Sossaman
NAIL		
NAIL		
NAIL		NAILs were ran over
NAIL		
NAIL		

Turn #1	+	HI	−	Elev.	DESC
TP #570				1493.44	NAIL
	12.51				
		1505.95			
			1.84		
TP #571				1504.11	NAIL
	14.87				
		1518.98			
			2.92		
TP #572				1516.06	NAIL
	11.16				
		1527.22			
			4.15		
TBM #573				1523.07	PK #137, X Panel, H+T, Sassaman + 1 mile South of Hunt

Turn #2	+	HI	−	Elev.	Desc
TP #570				1493.53	NAIL
	12.44				
		1505.97			
			1.76		
TP #571				1504.21	NAIL
	14.82				
		1519.03			
			2.83		
TP #572				1516.20	NAIL
	11.09				
		1527.29			
			4.15		
TBM #573				1523.14	PK #137, X panel, M+T, Sossaman + 1 mile South of Hunt



Date 10-28-86

Crew J Martin
T Johnson

Turn #1	+	HI	—	Elev.	Desc.
TBM #				1427.82	Pt #112, NAIL — Hawes + Power Lines
	7.61				
		1435.43			
			5.20		
TP #574				1430.23	NAIL
	8.35				
		1438.58			
			1.44		
TP #575				1437.14	NAIL
	10.60				
		1447.74			
			1.01		
TP #576				1446.73	NAIL
	12.64				
		1459.37			
			0.18		
TP #577				1459.19	NAIL
	12.09				
		1471.28			
			1.87		
TP #578				1469.41	NAIL — NAIL to North #1

Turn #2	+	HI	−	Elev.	Desc
TBM #				1427.82	PK #112 NAIL Hawes + Power Lines
	7.61				
		1435.43			
			5.10		
TP #574				1430.33	NAIL
	8.25				
		1438.58			
			1.43		
TP #575				1437.15	NAIL
	10.58				
		1447.73			
			0.94		
TP #576				1446.79	NAIL
	12.57				
		1459.36			
			0.13		
TP #577				1459.23	NAIL
	12.04				
		1471.27			
			1.77		
TP #578				1469.50	NAIL NAIL to South #2

Turn #1	+	HI	−	Elev.	Desc.
TP#578				1469.41	NAIL
	13.23				
		1482.64			
			0.62		
TP#579				1482.02	NAIL
	13.23				
		1495.25			
			0.62		
TP.#580				1494.63	NAIL
	19.77				
		1514.40			
			0.96		
TP#581				1513.44	NAIL
	14.02				
		1527.46			
			1.11		
TP#582				1526.35	NAIL
	15.82				
		1542.17			
			0.78		
TP#583				1541.39	NAIL

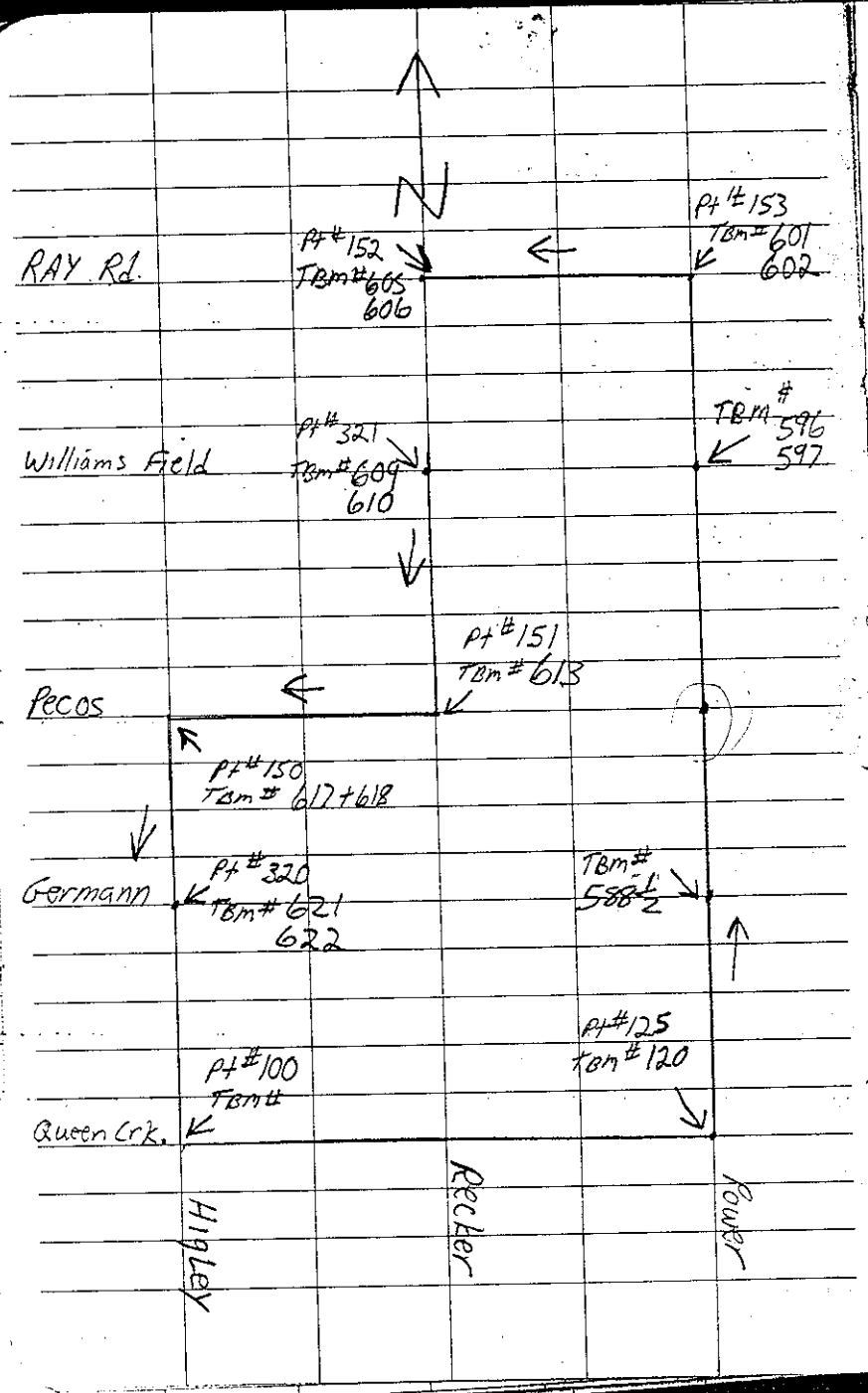
Turn #2	+	HI	−	Elev.	Desc.
TP #578				1469.50	NAIL
	13.14				
		1482.64			
			0.58		
TP #579				1482.06	NAIL
	13.19				
		1495.25			
			0.51		
TP #580				1494.74	NAIL
	19.66				
		1514.40			
			0.83		
TP #581				1513.57	NAIL
	13.89				
		1527.46			
			0.99		
TP #582				1526.47	NAIL
	15.71				
		1542.18			
			0.70		
TP #583				1541.48	NAIL

Turn # 1	+	HI	−	Elev.	Desc.
TP # 583				1541.39	NAIL
	17.01				
		1558.40			
			1.07		
TP # 584				1557.33	NAIL
	19.92				
		1577.25			
			7.75		
TBM # 585				1569.50	Pt # 138; H+T, near Hawes + 1 mile S. of Hunt Hwy

Turn #2	+	HI	−	Elev.	Desc
TP #583				1541.48	NAIL
	16.92				
		1558.40			
			0.90		
TP #584				1557.50	NAIL
	19.76				
		1577.26			
			7.75		
TBM #585				1569.51	P4 #138, H+T, near Hawes + 1 mile S. of Hunt Hwy

DATE: 10-29-86

Crew: JT Martin
JT Kendall



Turn	STA	+	HI	—	Elev.	
	TBm# 120				(1350.83)	
TP#		1.44				
			1352.27			
				8.84		
	TP# 586				1343.43	
TP#	1	2.60				
			1346.03			
				4.94		
	TP# 587				1341.09	
TP	2	3.30				
			1344.39			
				7.37		
	TP# 588				1337.02	1336.97
TP	3	4.00				
			1341.02			
				7.58		
	TP# 589				1333.44	
T	4	4.73				
			1338.17			
				4.07		
	TP# 590				1334.10	
	5					

Desc.

Pt# 125, P.K. nail, near Power Rd + Queen Creek

NAIL

NAIL

NAIL

NAIL

NAIL

TP# 588 Checked #589

TP# 588 1/2

Germann + Power Rd

1337.02	NAIL
3.86	+
1340.88	HI
4.54	—
~~1336.34~~	B.C. Flush
1336.29	

4.49 | 7.56

Sta	+	HI	−	Elev.	
TP #590				1334.10	
	4.49				
		1338.59			
			3.21		
TBM #591				1335.38	1335.28
6	1.25				
		1336.63			
			7.56		
TP #592				1329.07	
7	3.15				
		1332.22			
			4.82		
TP #593				1327.40	
8	3.80				
		1331.20			
			4.07		
TP #594				1327.13	
9	5.57				
		1332.70			
			4.98		
TP #595				1327.72	
10					

Desc.

NAIL

BAD one

Set P.K., For V Panel, near Pecos + Power 200' N. of Rittenhouse, Old X panel

NAIL

NAIL

NAIL

NAIL

Sta	+	HI	−	Elev.		Desc
TP #595				1327.72		NAIL
	4.00					
		1331.72				
			5.90			
TBM #596				1325.82	1325.64	B.C. in H.H. South of Power + Williams Field
11			5.43			At Entrance to A.F.B.
TBM #597				1326.29	1326.11	Pavement
	6.53					
		1332.35				
			8.39			
TP #598				1323.96		NAIL
12	4.50					
		1328.46				
			7.64			
TP #599				1320.82		NAIL
13	4.77					
		1325.59				
			4.65			
TP #600				1320.94		NAIL
14	5.08					
		1326.02				
			6.18			
TBM #601				1319.84	1319.58	Pt # 153, B.C. in H.H., Rax Rd + Power Rd
15			5.76			
TBM #602				1320.26	1320.00 ✓	Pavement next to Pt #153.

Sta	+	HI	−	Elev.	
Pt #601				1319.84	
	2.91				
		1322.75			
			7.60		
TP #603				1315.15	
16	2.06				
		1317.21			
			7.97		
TP #604				1309.24	
17	1.80				
		1311.04			
			6.94		
Tbm #605	↑			1304.10	1303.80
18			6.82		
Tbm #606				1304.22	1303.92
	6.35				
		1310.45			
			5.35		
TP #607				1305.10	
19	6.41				
		1311.51			
			4.85		
TP #608				1306.66	
20					

Desc:-

Pt #153, B.C. in H.H., Rax Rd + Power Rd

NAIL

NAIL

Pt #152, ½" RBar, Rax Rd + Recker

Pavement next to #152 " "

NAIL

NAIL

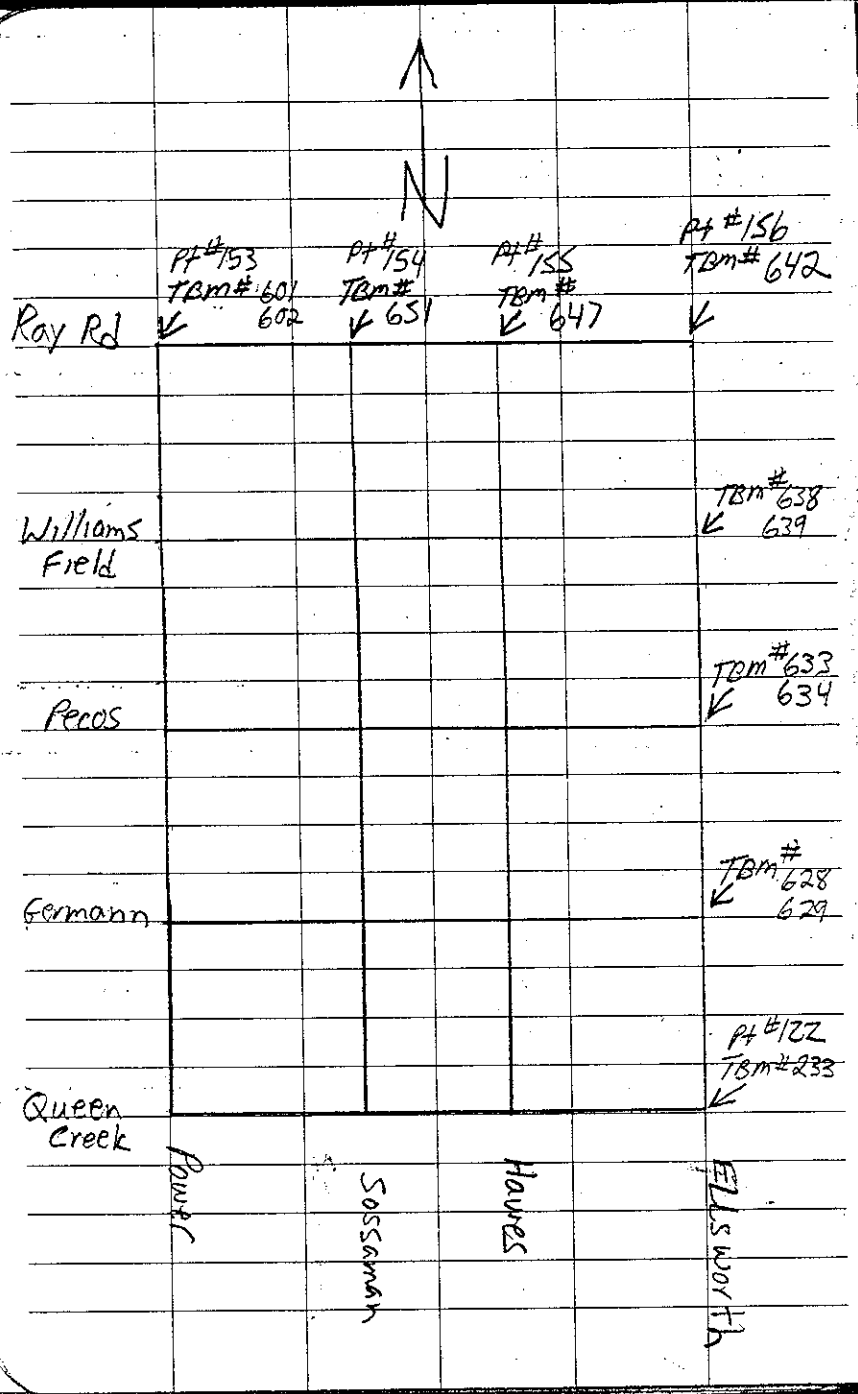
Sta	+	HI	−	Elev.	
TP #608				1306.66	
	5.89				
		1312.55			
			3.80		
TBM #609				1308.75	1308.40
21			3.34		
TBM #610				1309.21	1308.86
	5.63				
		1314.84			
			5.07		
TP #611				1309.77	
22	6.89				
		1316.66			
			4.44		
TP #612				1312.22	
23	6.46				
		1318.68			
			3.12		
TBM #613				1315.56	1315.16
24	3.19				
		1318.75			
			7.74		
TP #614				1311.01	
25					

Desc.	
NAIL	
Pt #321, B.C. in H.H	Williams Field + Recker Rd
Pavement Next to #321.	
NAIL	
NAIL	
Pt #151, B.C. Flush,	Recker Rd + Pecos
NAIL	

Sta	+	HI	−	Elev.		Desc.
TP #614				1311.01		NAIL
	3.65					
		1314.66				
			7.95			
TP #615				1306.71		NAIL
26	0.61					
		1307.32				
			6.21			
TP #616				1301.11		NAIL
27	3.63					
		1304.74				
			6.50			
TBM #617	↑			1298.24	1297.78	Pk # 150 B.C. in H.H. Higley + Pecos
28			5.35			
TBM #618				1299.39	1298.93	Pavement next to # 150 " "
	6.06					
		1304.30				
			3.29			
TP #619				1301.01		NAIL
29	7.70					
		1308.71				
			4.65			
TP #620				1304.06		NAIL
30						

STA	+	HI	−	Elev.	
TP #620				1304.06	
30	6.30				
		1310.36			
			4.18		
TBM #621				1306.18	1305.67
31			3.40		
TBM #622				1306.96	1306.45
	5.49				
		1311.67			
			3.45		
TP #623				1308.22	
32	7.96				
		1316.18			
			0.73		
TP #624				1315.45	
33	5.73				
		1321.18			
			4.46		
TP #625				1316.72	
34	5.32				
		1322.04			
			3.45		
TBM #81				1318.59	1318.01
~~35~~		Check IN			
		Should Be.		(1318.01)	.58 over

Desc
NAIL
Pt #320, B.C. in H.H. Higley + Germann
Pavement next to #320 " "
NAIL
NAIL
NAIL
Pt #100, B.C. in H.H., Higley + Chandler Rds



Date: 10-31-86

Crew: J martin
J Kendall

STA	+	HI	−	Elev.		Desc.
TBM #233				(1394.55)		Pk #122 B.C. in H.H. Ellsworth + Queen Creek
	4.05					
		1398.60				
			5.92			
TP #626				1392.68		WAIL
1	4.61					
		1397.29				
			4.61			
TP #627				1392.68		NAIL
2	5.24					
		1397.92				
			6.79			
TBM #628				1391.13	1391.17	B.C. in H.H. Ellsworth + Germann
3			6.26			
TBM #629				1391.66	1391.70	Pavement next to H.H. "
	6.35					
		1397.48				
			7.46			
TP #630				1390.02		NAIL
4	4.25					
		1394.27				
			6.28			
TP #631				1387.99		NAIL
5						

STA	+	HI	−	ELEV.	
TP#631				1387.99	
	5.42				
		1393.41			
			7.26		
TBM#632				1386.15	1386.24
6	5.23				
		1391.38			
			6.78		
TBM#633				1384.60	1384.70
7			6.31		
TBM#634				1385.07	1385.17
	5.48				
		1390.08			
			6.80		
TP#635				1383.28	
8	4.20				
		1387.48			
			6.46		
TP#636				1381.02	
9	5.93				
		1386.95			
			5.83		
TP#637				1381.12	
10					

Desc.
NAIL
Cotton Picker Spindle, Ellsworth + South East Corner WAFB, Fence
B.C. in H.H. Ellsworth + Pecos
Pavement next to H.H. " "
NAIL
NAIL
NAIL

STA	+	HI	−	Elev.	
TP#637				1381.12	
	5.53				
		1386.65			
			7.78		
TBM#638				1378.87	1379.02
11	↑		7.11		
TBM#639				1379.54	1379.69
	7.50				
		1386.37			
			5.06		
TP#640				1381.31	
12	7.19				
		1388.50			
			4.75		
TP#641				1383.75	
13	7.26				
		1391.01			
			3.24		
TBM#642				1387.77	1387.97
14	1.52				
		1389.29			
			9.29		
TP#643				1380.00	
15					

Desc.
NAIL
B.C. in H.H. near Williams Field + Ellsworth
Pavement next to H.H. near Williams Field + Ellsworth
NAIL
NAIL
Pt #156, P.K. NAIL, near Ray Rd + Ellsworth
NAIL

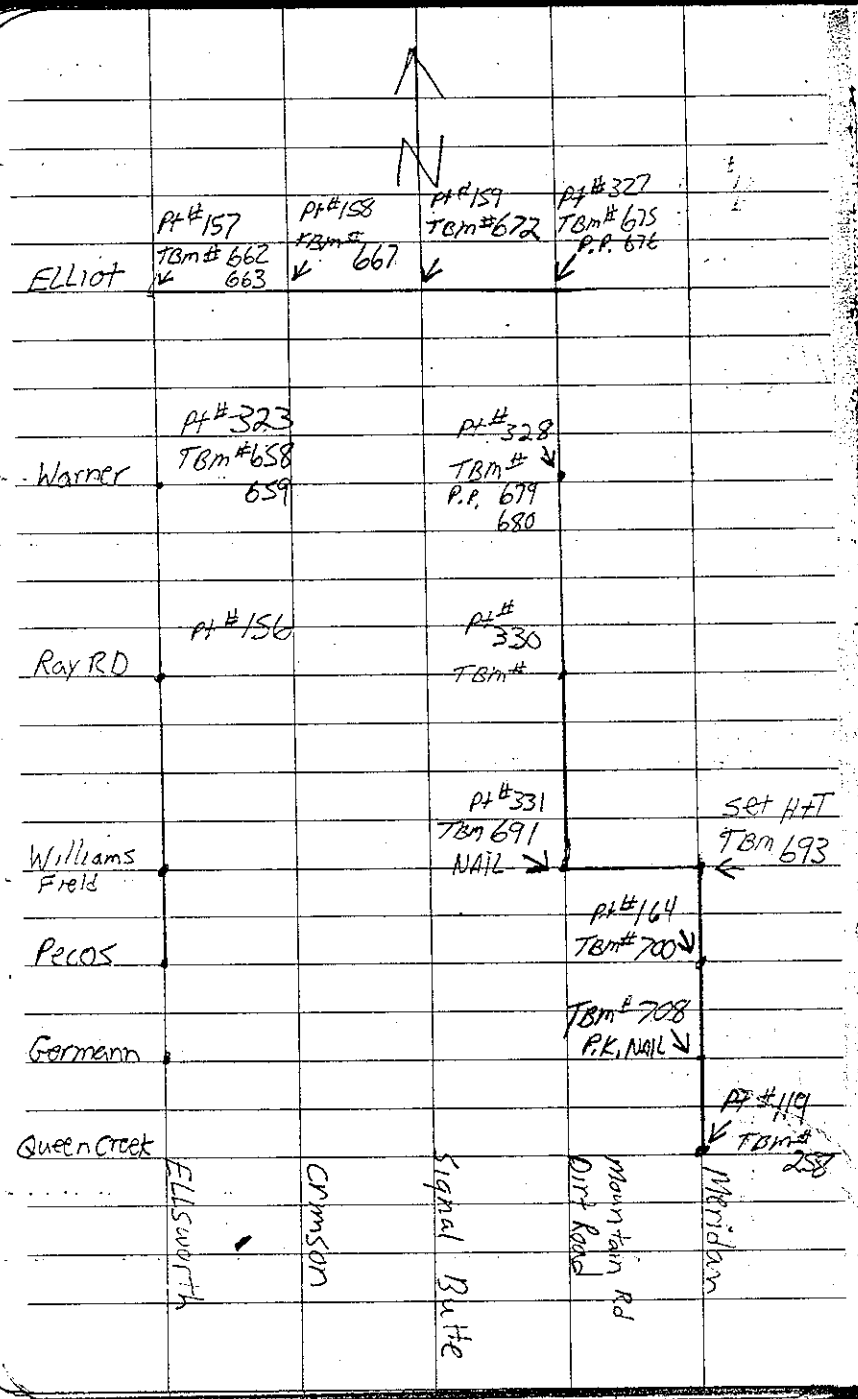
STA	+	HI	−	ELEV.	DESC.
TP #643				1380.00	NAIL
	3.80				
		1383.80			
			7.53		
TP #644				1376.27	NAIL
16	0.28				
		1376.55			
			7.79		
TP #645				1368.76	NAIL
17	2.69				
		1371.45			
			7.57		
TP #646				1363.88	NAIL
18	5.61				
		1369.49			
			9.84		
TBM #647				1359.65	1359.92 Pt #155, H + T, Near Hawes + Rax Rd
19	2.26				
		1361.91			
			6.95		
TP #648				1354.96	NAIL
20					

Sta	+	HI	−	Elev.	
TP #648				1354.96	
	1.61				
		1356.57			
			7.92		
TP #649				1348.65	
21	2.15				
		1350.80			
			7.46		
TP #650				1343.34	
22	3.93				
		1347.27			
			6.05		
TBM #651				1341.22	1341.55
23	2.51				
		1343.73			
			6.95		
TP #652				1336.78	
24	2.90				
		1339.68			
			7.10		
TP #653				1332.58	
25					

Desc.
NAIL
NAIL
NAIL
Pk #154, H+T near Ray Rd + Sossman
NAIL
NAIL

STA	+	HI	−	ELEV.
TP #653				1332.58
	3.48			
		1336.06		
			4.07	
TP #654				1331.99
26	0.83			
		1332.82		
			9.53	
TP #655				1323.29
27	2.65			
		1325.94		
			6.75	
TBM #601				1319.19
		Check in		(1319.58)
		Should Be		
		Under .39		

DESC.
NAIL
NAIL
NAIL
PI #153, B.C. in H.H. Power Rd + Ray Rd



Crew: J. Martin
J. Kendall

Date: 11-3-86

Sta	+	HI	−	Elev.		Desc
TBM #642				(1387.97)		At #156, P.K. NAIL Ray Rd + Ellsworth.
	3.70					
		1391.67				
			4.65			
TP #656				1387.02		NAIL
1	6.82					
		1393.84				
			3.05			
TP #657				1390.79		NAIL
2	4.81					
		1395.60				
			4.10			
TBM #658				1391.50	1391.52	At #323, B.C. in H.H. Warner + Ellsworth
3	↑		3.45			
TBM #659				1392.15	1392.17	Pavement next #323
	6.75					
		1398.25				
			4.40			
TP #660				1393.85		NAIL
4	7.69					
		1401.54				
			2.10			
TP #661				1399.44		NAIL
5						

STA	+	HI	−	ELEV.		DESC.
TP#661				1399.44		NAIL
	5.99					
		1405.43				
			2.75			
TBM#662				1402.68	1402.72	Pt#157, B.C. in H.H. Elliot + Ellsworth
6			1.86			
TBM#663				1403.57	1403.61	Pavement next to #157
	7.27					
		1409.95				
			0.55			
TP#664				1409.40		NAIL
7	7.35					
		1416.75				
			3.39			
TP#665				1413.36		NAIL
8	10.08					
		1423.44				
			0.79			
TP#666				1422.65		NAIL
9	9.29					
		1431.94				
			2.49			
TBM#667				1429.45	1429.52	Pt#158 H+T, near Crimson + Elliot
10						

Sta	+	HI	−	Elev.		Desc.
TBm #667				1429.45	1429.52	Pt #158, H+T,
	8.73					
		1438.18				
			2.58			
TP #668				1435.60		NAIL
11	7.97					
		1443.57				
			0.15			
TP #669				1443.42		NAIL
12	9.25					
		1452.67				
			0.15			
TP #670				1452.52		NAIL
13	7.84					
		1460.36				
			1.79			
TP #671				1458.57		NAIL
14	4.79					
		1463.36				
			2.80			
TBm #672				1460.56	1460.66	Pt #159, H+T, Near Elliot + Signal Battle
15			1.10			
TBm #673				1462.26	1462.36	NAIL in PP South side of Elliot, West End 200 ft S.E. of Pt #159

Sta	+	HI	−	Elev.		Desc.
TBM #673				1462.26	1462.36	Nail in P.P. 200' S.E. of Pt #159
	7.73					
		1469.99				
			1.50			
TP #674				1468.49		NAIL
16	9.66					
		1478.15				
			1.10			
TP #675				1477.05	1477.16	Pt #327, NAIL. Elliot + Mountain Rd Dirt Road
17			0.20			
TBM #676	↑			1477.95	1478.06	NAIL in P.P., 91°, S.W. Pt #327
	4.24					
		1482.19				
			6.02			
TP #677				1476.17		NAIL
18	2.73					
		1478.90				
			7.94			
TP #628				1470.96		NAIL
19	0.96					
		1471.92				
			4.00			
TBM #679				1467.92	1468.05	NAIL in P.P., 130° North of Pt # 328
20			4.20			
TBM #680				1467.72	1467.85	Pt # 328, NAIL

Sta	+	HI	−	Elev.	
TBm #679				1467.92	1468.05
	1.85				
		1469.77			
			7.57		
TP #681				1462.20	
21	0.56				
		1462.76			
			7.50		
TP #682				1455.26	
22	3.75				
		1459.01			
			8.01		
TBm #683				1451.00	1451.15
23			7.60		
TBm #684	↑			1451.41	1451.56
	2.70				
		1454.11			
			4.88		
TBm #685				1449.23	1449.39
24			5.66		
TBm #686				1448.45	1448.61

Desc:

NAIL in P.P. near Pt #328

NAIL

NAIL

Pt #329 NAIL

NAIL in P.P. 94± S.E. of Pt #329

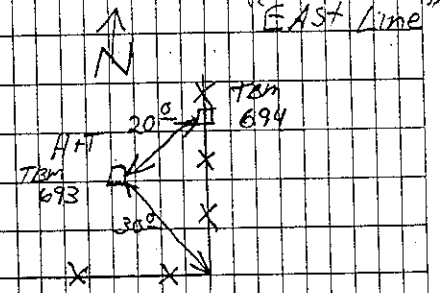
NAIL in P.P., 44± N.W. of Pt #330

Pt #330 NAIL, near Ray Rd + Dirt Rd (Mountain Rd)

Sta	+	HI	−	Elev.		Desc.
TBm #685				1448.45	1448.61	PK #330 NAIL, Near Ray Rd + Dirt Rd. Mountain Rd
	3.88					
		1452.33				
			7.81			
TP #687				1444.52		NAIL
25	3.08					
		1447.60				
			5.90			
TP #688				1441.70		NAIL
26	4.56					
		1446.26				
			5.31			
TP #689				1440.95		NAIL
27	4.24					
		1445.19				
			5.32			
TBm #690				1439.87	1440.05	NAIL in P.P., 8½ N.E. PK #13, Williams Field + Dirt Rd mountain
28			5.66			
TBm #691	↑			1439.53	1439.71	PK #331, NAIL Williams Field + Dirt Rd mountain
	7.61					
		1447.14				
			1.70			
TP #692				1445.44		NAIL
29						

Sta	+	HI	−	Elev.	
TBM #692				1445.44	
	7.37				
		1452.81			
			3.25		
TBM #693				1449.56	1449.76
30	↑		2.54		
TBM #694				1450.27	1450.47
	3.84				
		1453.40			
			5.15		
TP #695				1448.25	
31	5.78				
		1454.03			
			8.00		
TP #696				1446.03	
32	5.75				
		1451.78			
			7.00		
TP #697				1444.78	
33	1.45				
		1446.23			
			6.65		
TP #698				1439.58	
34					

Desc.	
NAIL	
Set H+T, for V. Panel, Williams Field + Meridan "East Line"	
NAIL in Fence Post End of Williams Field	
NAIL	
NAIL	
NAIL	
NAIL	

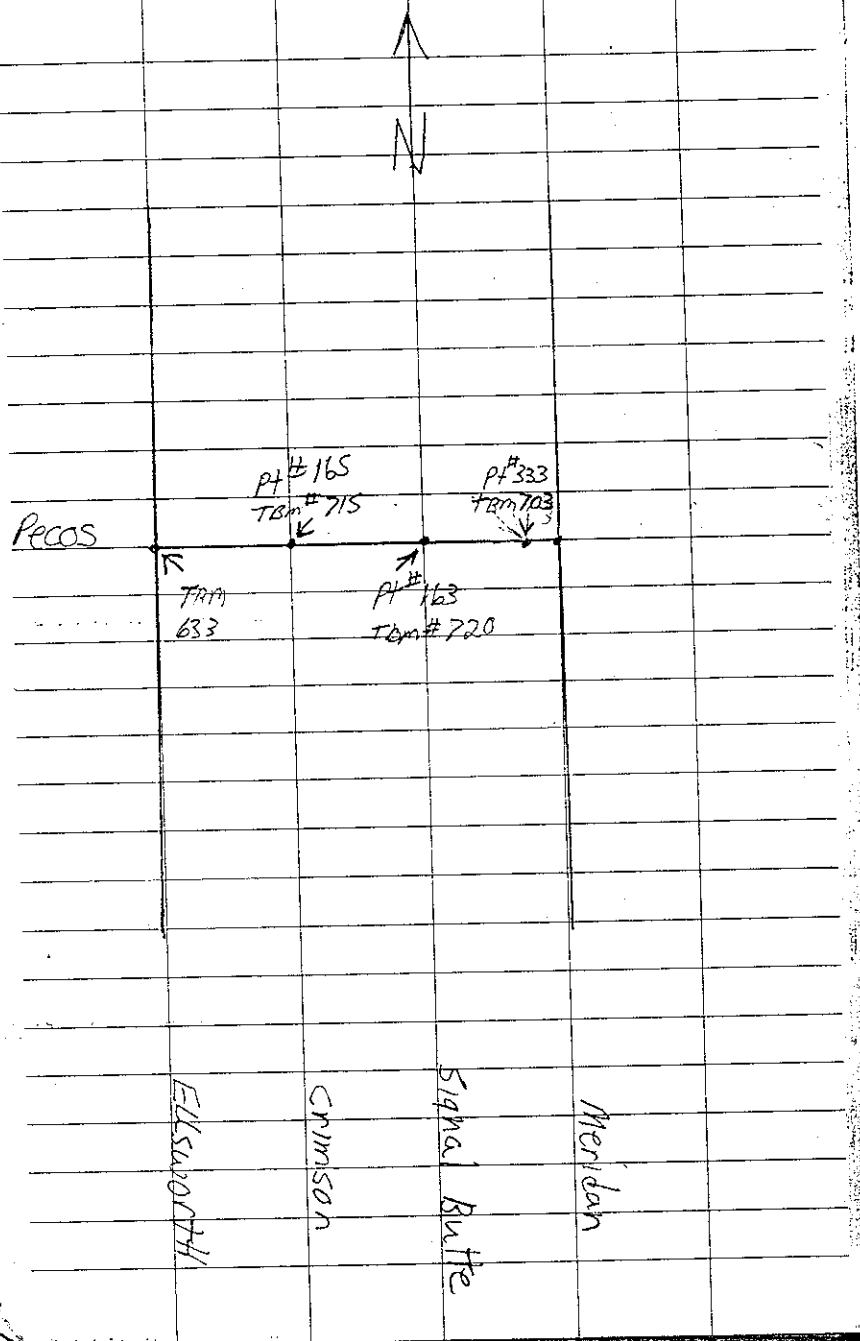


Sta	+	HI	−	Elev.	Desc
TP #698				1439.58	NAIL
	5.58				
		1445.16			
			4.96		
TP #699				1440.20	NAIL
35	5.78				
		1445.98			
			5.68		
TBM #700				1440.30	1440.54 Pt #164, H+T, near Pecos + Meridan
36					
TBM #701	↑ Shot w/Linker Rod			1441.74	1441.98 Section corner, ℄ "
	4.38				
		1444.68			
			7.55		
TP #702				1437.13	NAIL
37	4.35				
		1441.48			
			4.85		
TBM #703				1436.63	1436.88 Pt #333, NAIL
38			3.70		
TBM #704				1437.78	1438.03 NAIL in Fence Post, 4' North of Pt # 333

Sta	+	HI	−	Elev.		Desc
TBM #703				1436.63	1436.88	Pt #333, NAIL
	4.04					
		1440.67				
			4.11			
TP #705				1436.56		NAIL
39	7.49					
		1444.05				
			3.80			
TP #706				1440.25		NAIL
40	4.92					
		1445.17				
			4.72			
TP #707				1440.45		NAIL
41	5.63					
		1446.08				
			2.58			
TBM #708				1443.50	1443.78	Pk. w/Shiner Near Germann & Meridan & Panel EAST Line
42	5.60					
		1449.10				
			3.49			
TP #709				1445.61		NAIL
43						

STA	+	HI	−	Elev.	DESC
TP#709				1445.61	NAIL
	5.23				
		1450.84			
			3.82		
				1447.02	NAIL
TP#710					
44	7.32				
		1454.34			
			4.84		
				1449.50	PI#119 HIT, Queen Creek + Meridan
TBM#258					
		Check IN			
		Should Be,		(1449.79)	
			under	0.29	

4.14 B.C.



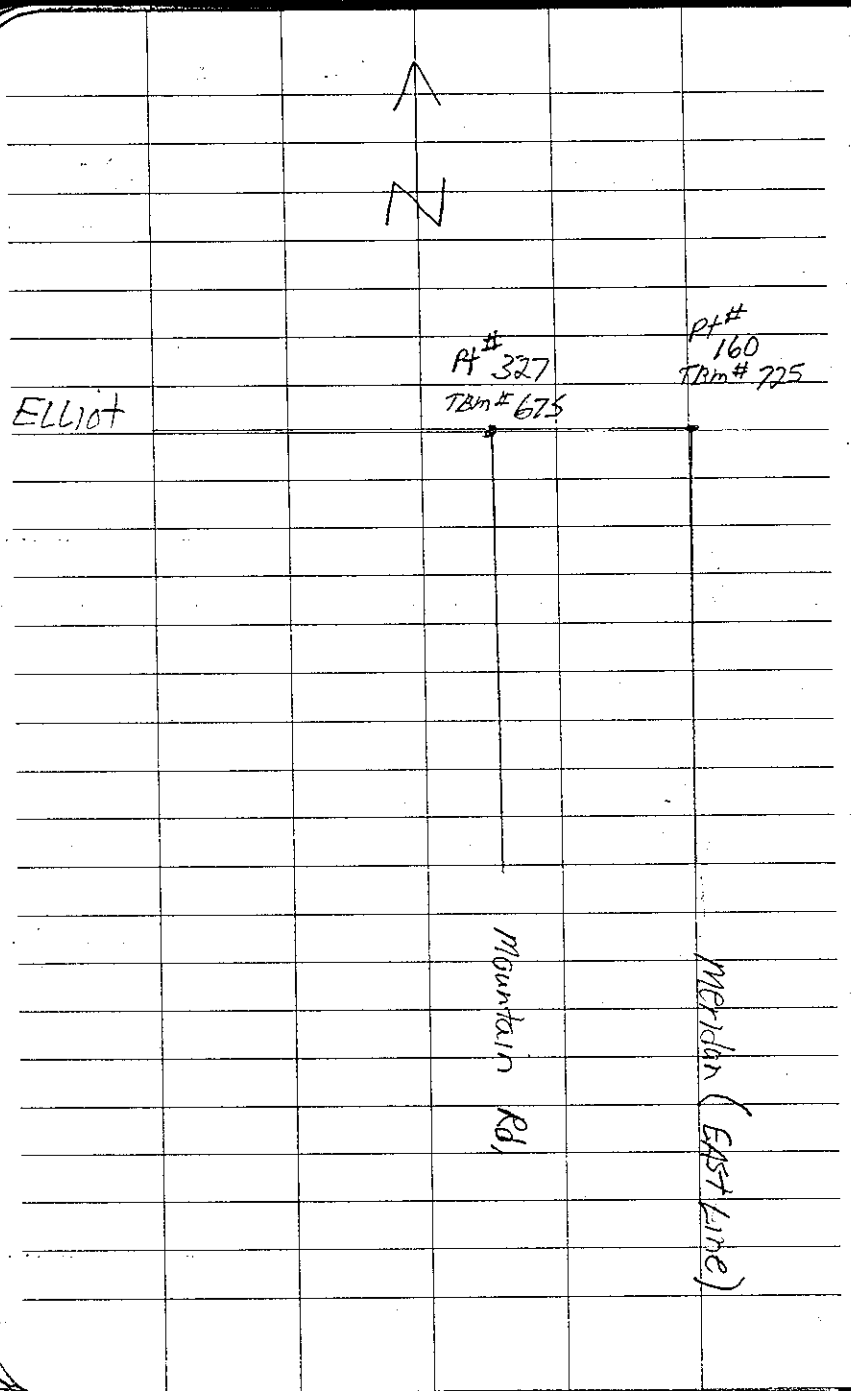
Date: 11-6-86

crew: J Martin
J Kendall

Sta	+	HI	−	Elev.	Desc
TBM #633				(1384.70)	B.C. in H.H. Ellsworth + Pecos
	8.90				
		1393.60			
			3.96		
TP #711				1389.64	NAIL
	7.40				
		1397.04			
			1.40		
TP #712				1395.64	NAIL
	6.21				
		1401.85			
			2.91		
TP #713				1398.94	NAIL
	6.06				
		1405.00			
			3.54		
TP #714				1401.46	NAIL
	6.01				
		1407.47			
			3.67		
TBM #715				1403.80	Pt #165, H+T, near Pecos + Crimson
			5.24		
TP #716				1402.23	NAIL

Sta	+	HI	−	Elev.	Desc
TBM #716				1402.23	Rt #165 H+T, near Recos + crimson
	7.26				nail ?
		1409.49			
			3.03		
TP #717				1406.46	NAIL
	7.34				
		1413.80			
			2.68		
TP #718				1411.12	NAIL
	6.80				
		1417.92			
			3.76		
TP #719				1414.16	NAIL
	7.62				
		1421.78			
			2.40		
TBM #720				1419.38	Rt #163, H+T, near Recos + Signal Butte
	7.35				
		1426.73			
			1.39		
TP #721				1425.34	NAIL

STA	+	HI	−	ELEV.	Desc
TP #721				1425.34	NAIL
	7.30				
		1432.64			
			3.48		
TP #722				1429.16	NAIL
	8.77				
		1437.93			
			1.05		
TBM #203				1436.88	PK #333, nail
	Check IN				
		Should Be		1436.88	
		Perfect		0	



DATE 11-7-86

CREW J Martin
J Kendall

Turn #	+	HI	−	Elev.	Desc
TBM #675				1477.16	
	7.56				
		1484.72			
			2.18		
TP #723				1482.54	
	9.25				
		1491.79			
			0.83		
TP #724				1490.96	
	7.93				
		1498.89			
			2.45		
TBM #725				1496.44	
					Pk #327, Nail — Elliot + mountain
					Nail
					Nail
					Pk #160, Hub, Near — Elliot + meridan East line

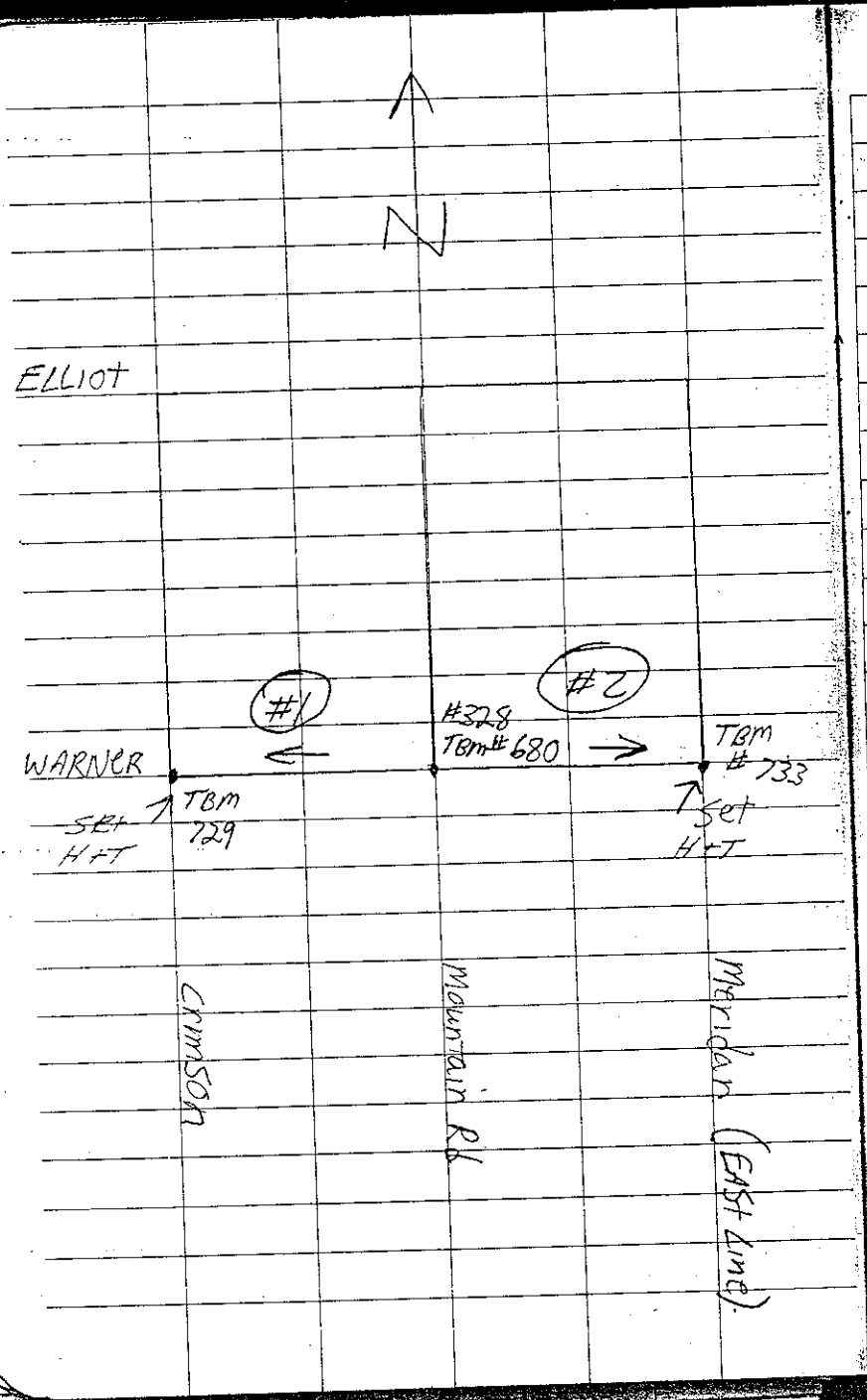
Turn #2	+	HI	−	Elev.	Desc
TBM #675				1477.16	
	7.56				
		1484.72			
			2.11		
TP #723				1482.61	
	9.18				
		1491.79			
			0.73		
TP #724				1491.06	
	7.83				
		1498.89			
			2.45		
TBM #725				1496.44	

Pt #327, NAIL — Elliot + Mountain Rd

NAIL

NAIL

Pt #160, H+T, near Elliot + meridan EAST Line



DATE 11-7-86

Crew. J Martin
J. Kendall

Turn #1	+	HI	−	Elev.		DESC
TBM #680				1467.85		Pt #328, NAIL, near Warner + Mountain Rd
	3.24					
		1471.09				
			12.15			
TP #726				1458.94		NAIL
	3.56					
		1462.50				
			8.36			
TP #727				1454.14		NAIL
	3.12					
		1457.26				
			7.31			
TP #728				1449.95		NAIL
	5.42					
		1455.37				
			5.46		90	
TBM #729				1449.91		H+T, V Panel, near Warner + Crimson
			4.80			
TBM #730				~~1450.57~~	1450.56	Section corner " "
		#1				
	5.16			5.00		

Turn #2	+	HI	−	Elev	Desc
TBM #6.80				1467.85	Pt #328 NAIL, Near Warner + Mountain Rd
	3.24				
		1471.09			
			12.04		
TP #726				1459.05	NAIL
	3.45				
		1462.50			
			8.21		
TP #727				1454.29	NAIL
	2.97				
		1457.26			
			7.22		
TP #728				1450.04	NAIL
	5.32				
		1455.36			
			5.46		
TBM #729				1449.90	Hub, V Panel Near Warner + Crimson
			4.80		
TBM #730				1450.56	1450.56 Section Corner " "
		(#1)			

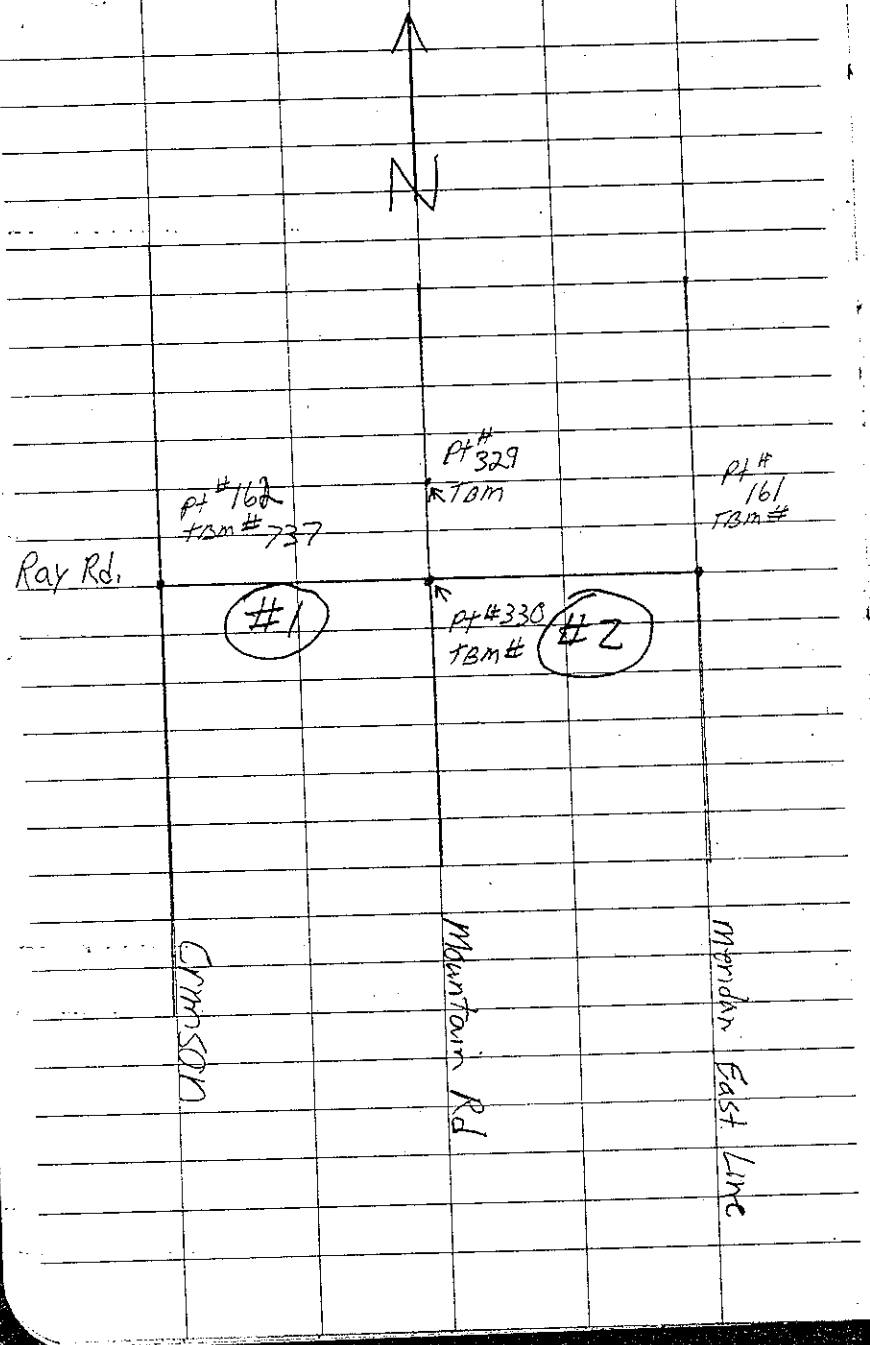
Turn #1	+	HI	−	Elev.
TBM #680				1467.85
	7.78			
		1475.63		
			2.29	
TP #731				1473.34
	7.65			
		1480.99		
			4.38	
TP #732				1476.61
	6.84			
		1483.45		
			4.39	
TBM #733				1479.06
			3.25	
TBM #734				1480.20

#2

Desc	
Pt # 328, NAIL	Warner & Mountain Rd
NAIL	
NAIL	
Set H&T, V Panel, Section Corner	Near Warner & meridan East Line, "

Turn #2	+	HI	−	Elev.	Desc
TBm #680				1467.85	Pt #328, NAIL Warner + Mountain Rd
	7.78				
		1475.63			
			2.21		
TP #731				1473.42	NAIL
	7.57				
		1480.99			
			4.26		
TP #732				1476.73	NAIL
	6.72				
		1483.45			
			4.39		
TBm #733				1479.06	Set H+T, V Panel, NEar Warner + Meridian
			3.25		Section Corner " "
TBm #734				1480.20	

#2



DATE: 11-7-86

Crew: J. Martin
J. Kendall

Turn #1	+	HI	−	Elev	Desc.
TBM # 683				(1451.15)	Pt #329, NAIL — Mountain Rd + Canal
	6.31				
		1457.46			
			8.70		
TP # 735				1448.76	NAIL
	1.86				N
		1450.62			
			9.00		
TP # 736				1441.62	NAIL
	2.01				
		1443.63			
			7.23		
TBM # 737				(1436.40)	Pt #162, H + T, Near Rax Rd + Crimson
		(#1)			

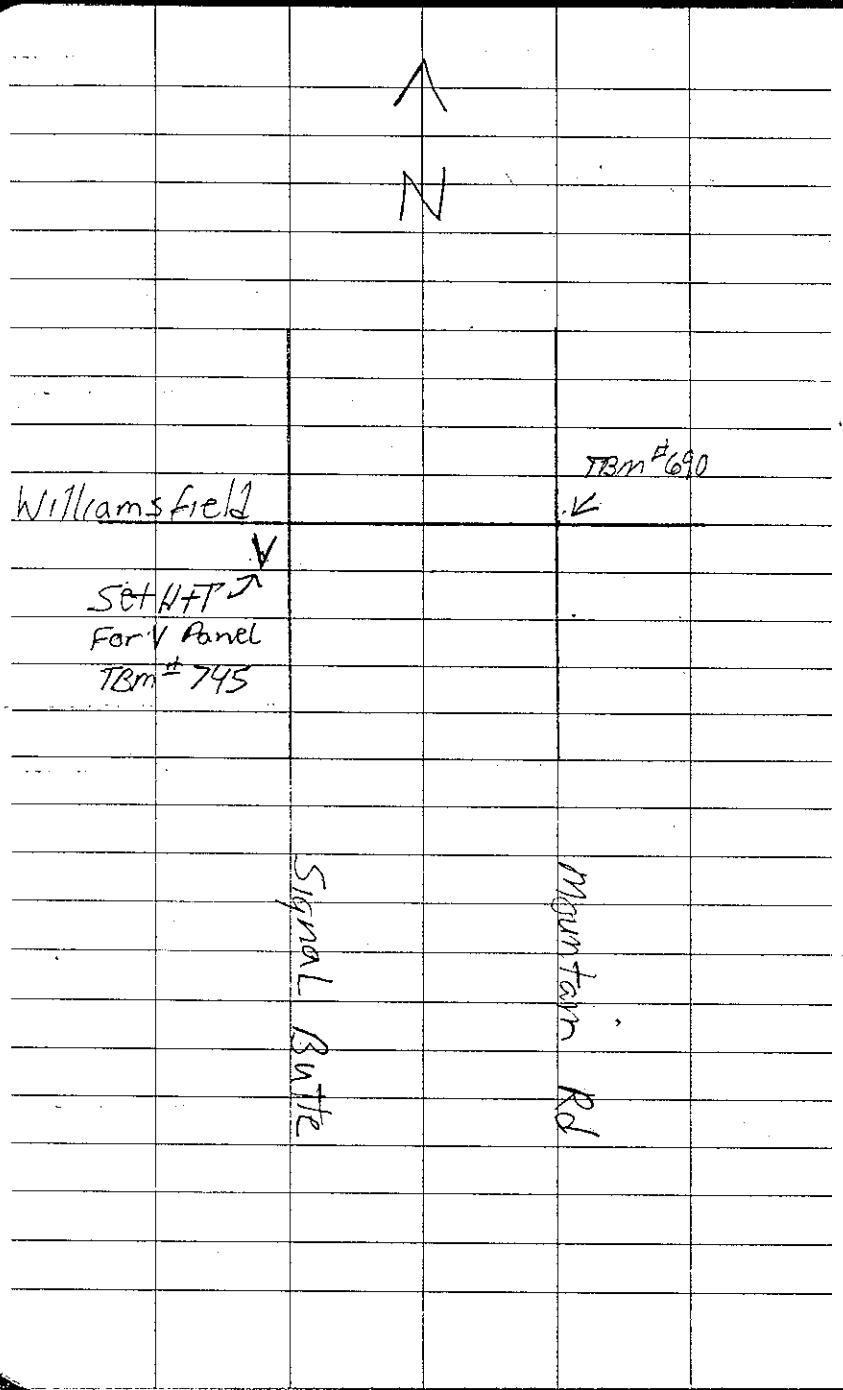
Turn #2	+	HI	−	Elev.	Desc
TBM #683				1451.15	Pt #329, NAIL — Mountain + Canal
	6.31				
		1457.46			
			8.62		
TP #735				1448.84	NAIL
	1.77				
		1450.61			
			8.91		
TP #736				1441.70	NAIL
	1.94				
		1443.64			
			7.23		
TBM #737				1436.41 (1436.40)	Pt #162, Hi+T, Near Rax Rd + Crimson
		#1			

Turn # 1	+	HI	−	Elev	Desc
TBM # 686				(1448.61)	PI # 330, NAIL Ray Rd + Mountain Rd
	8-69				
		1457.30			
			3.50		
TP # 738				1453.80	NAIL
	6.28				
		1460.08			
			4,85		
TP # 739				1455.23	NAIL
	10.33				
		1465.56			
			3.03		
TP # 740				1462.53	NAIL
	6.91				
		1469.44			
			3.90	(1465.54)	PI # 161, section corner Ray Rd + Meridian
TBM # 741					
			4.87		Dirt shot next to section corner
TBM # 742				(1464.58)	
	Check P.P.		7.91		

Turn #2	+	HI	−	Elev.		Desc
TBM #686				1448.61		Pt #330, NAIL Ray Rd + Mountain
	8.69					
		1457.30				
			3.35			
TP #738				1453.95		NAIL
	6.12					
		1460.07				
			4.74			
TP #739				1455.33		NAIL
	10.23					
		1465.56				
			2.96			
TP #740				1462.60		NAIL
	6.85					
		1469.45				
			3.90			
TBM #741				1465.55	(1465.54)	Pt #161, section corner, Ray Rd + Meridian
			4.87			
TBM #742				(1464.58)		Dirt shot next to section corner

DATE : 11-10-86

crew : J. Martin
T. Kendall



Turn #	+	HI	−	Elev.	
TBM #690				(1440.05)	
	3.30				
		1443.35			
			7.89		
TP #743				1435.46	
	2.37				
		1437.83			
			7.90		
TP #744				1429.93	
	3.14				
		1433.07			
			6.30		
TBM #745				1426.77	(1426.76)

Desc

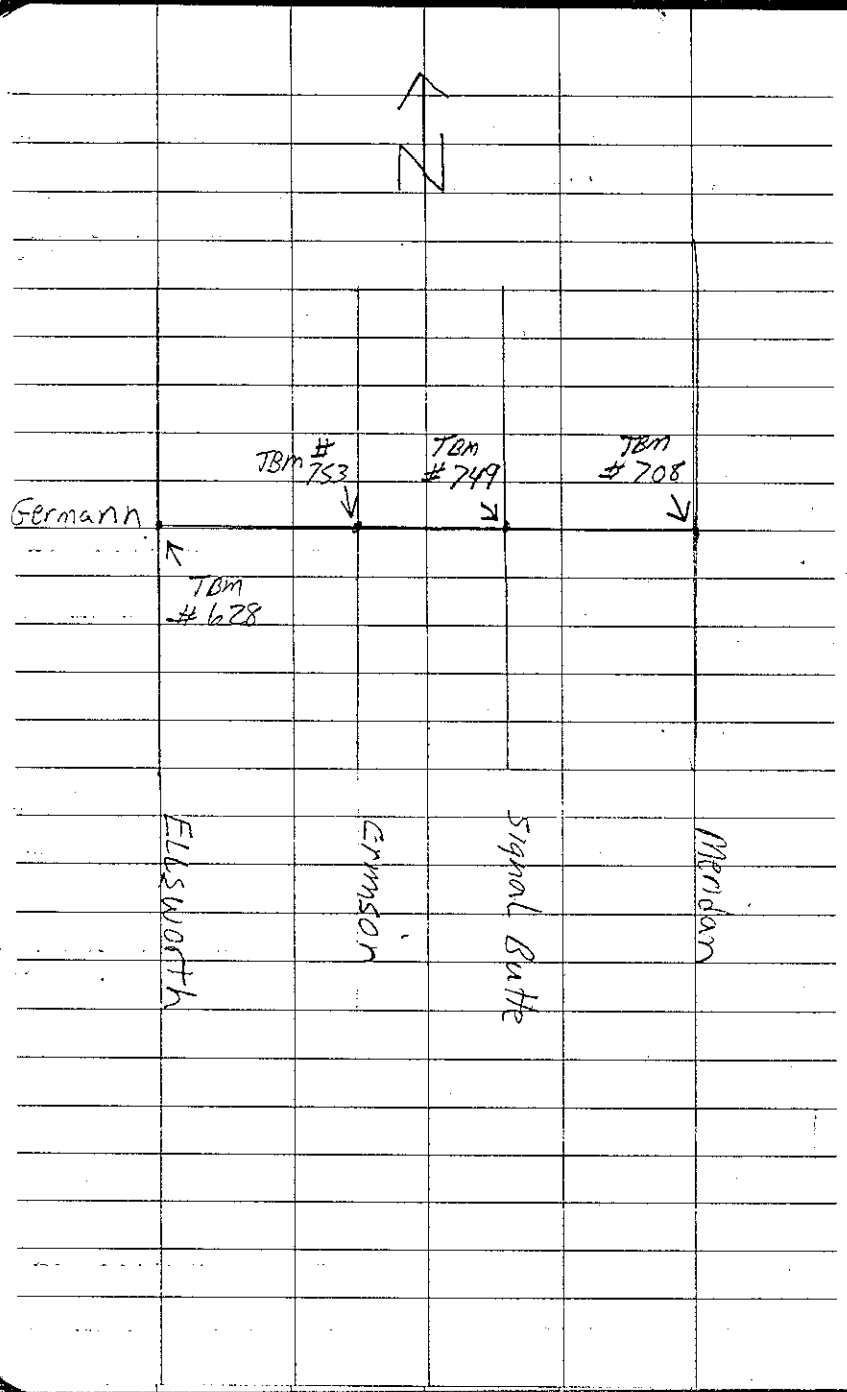
NAIL in R.R. Mountain + Williamsfield

NAIL

NAIL

Set HUT, for V panel, signal Butte + Williams Field

Turn #2	+	HI	−	Elev.	Desc.
TBM #690				(1440.05)	
	3.30				NAIL in R.R. Mountain + Williamsfield
		1443.35			
			7.86		
TP # 743				1435.49	
	2.34				NAIL
		1437.83			
			7.85		
TP # 744				1429.98	
	3.081				NAIL
		1433.06			
			6.30		
TBM # 745				(1426.76)	Set HUT, for Panel, Signal Baltic + Williams Field



DATE: 11-10-86

Crew: J. Martin
J. Kendall

	+	HI	−	Elev		Desc.
TBm # 708				(1443.78)		P.K. Nail, V Panel, Meridian + Germann
	0.11					
		1443.89				
			7.80			
TP # 746				1436.09		NAIL
1	2.22					
		1438.31				
			7.80			
TP # 747				1430.51		NAIL
2	2.00					
		1432.51				
			7.14			
TP # 748				1425.37		NAIL
3	2.50					
		1427.87				
			4.80			
TBm # 749				1423.07	1423.02	Set P.K. NAIL, for V Panel, Germann + Signal Butte
4			7.77			
TP # 750	↑			1420.10	1420.05	NAIL
	3.75					
		1423.85				
			7.65			
TP # 751				1416.20		NAIL
5						

	+	HI	−	Elev	
TP#751				1416.20	
	1.53				
		1417.73			
			5.82		
TP#752				1411.91	
6	3.46				
		1415.37			
			6.57		
TBM#753				1408.80	1408.72
7	1.16				
		1409.96			
			6.77		
TP#754				1403.19	
8	1.92				
		1405.11			
			7.60		
TP#755				1397.51	
9	2.83				
		1400.34			
			7.22		
TP#756				1393.12	
10					

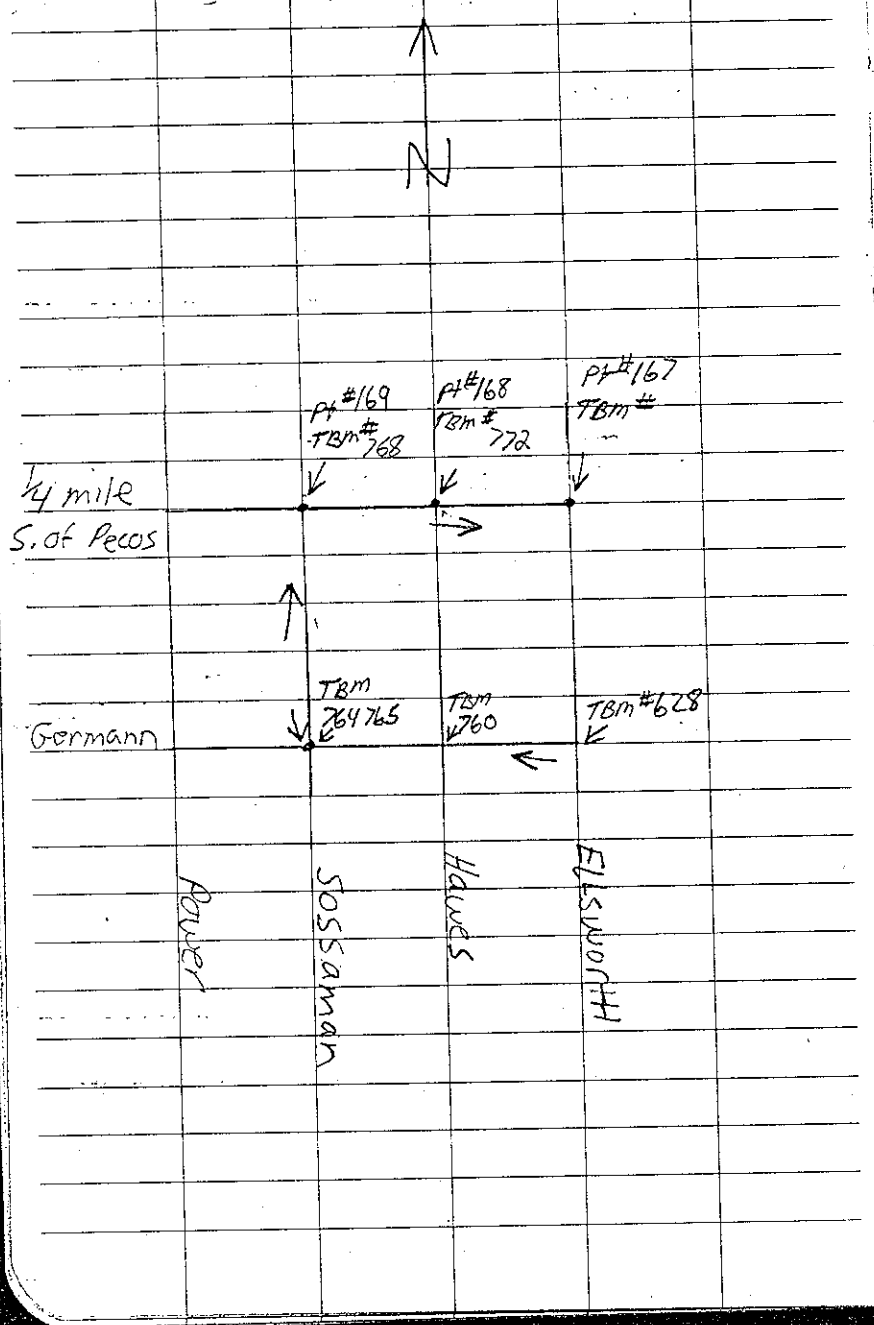
Desc	
NAIL	
NAIL	
Set P.K. NAIL	Crimson + Germann
NAIL	
NAIL	
NAIL	

	+	HI	−	ELEV.
TP# 756				1393.12
	5.59			
		1398.71		
			7.41	
TBM# 628				1391.30
		Check IN		
		Should Be		1391.17
			OVER	0.13

DESC. —

NAIL

R.C. in H.H. Ellsworth + Germann



DATE: 11-12-86

Crew: J. Martin
J. Kendall

	+	HI	−	Elev
TBM #628				1391.17
	4.82			
		1395.99		
			7.67	
TP #757				1388.32
1	1.16			
		1389.48		
			7.56	
TP #758				1381.92
2	3.16			
		1385.08		
			6.83	
TP #759				1378.25
3	2.47			
		1380.72		
			6.19	
TBM #760				1374.53
4	2.22			
		1376.75		
			7.90	
TP #761				1368.85
5				

DESC.

B.C. in H.H. Ellsworth + Germann

NAIL

NAIL

NAIL

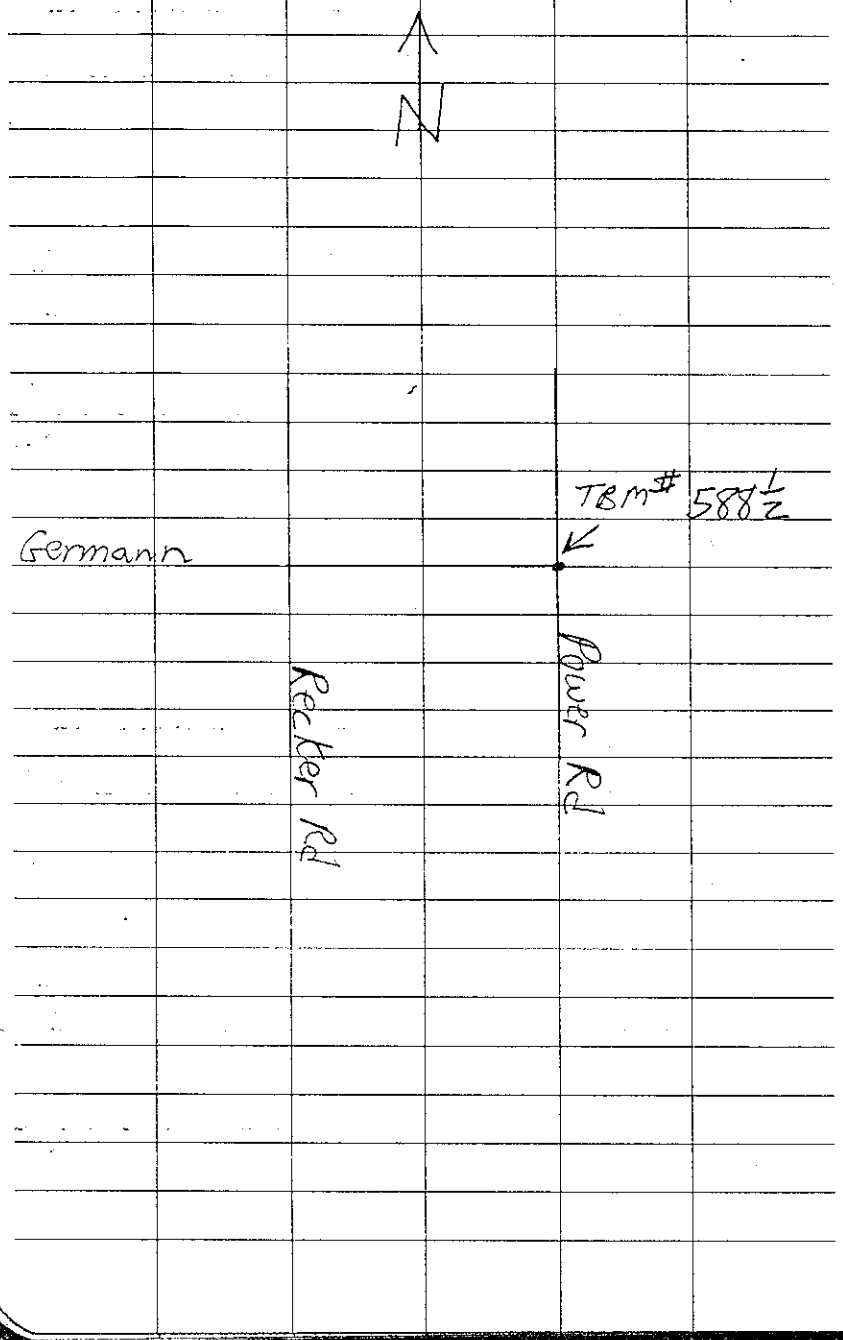
NAIL

1" pipe flush, for V Panel, 200 ST Hawes + Germann

	+	HI	−	Elev	Desc
TBm #761				1368.85	NAIL
	2.24				
		1371.09			
			7.79		
TP #762				1363.30	NAIL
	1.70				
		1365.00			
			7.15		
TP #763				1357.85	NAIL
	3.82				
		1361.67			
			6.29		
TBm #764				1355.38	FND Pipe in Pot Hole Sossaman + Germann
			6.24		
TBm #765				1355.43	Pavement
			8.32		
TP #766				1353.35	NAIL
	4.07				
		1357.42			
			5.91		
TP #767				1351.51	NAIL

	+	HI	−	Elev.	Desc
TP.#767				1351.51	NAIL
	3.83				
		1355.34			
			5.41		
TBM#768				1349.93	Pt#169, H+T 1/4 mile S. of Pecos + Sossamann
10	7.00				
		1356.93			
			0.60		
TP#769				1356.33	NAIL
11	7.33				
		1363.66			
			1.95		
TP#770				1361.71	NAIL
12	6.76				
		1368.47			
			3.26		
TP.#771				1365.21	NAIL
13	6.34				
		1371.55			
			2.68		
TBM#772				1368.87	Pt#168, H+T Hawes + 1/4 mile S. of Pecos
14					

	+	HI	−	Elev.	Desc.	
TBm # 772				1368.87	Pt # 168 H+T	Hawes + ¼ mile S. of Pecos
	6.10					
		1374.97				
			1.95			
TP # 773				1373.02	NAIL	
15	7.69					
		1380.71				
			1.95			
TP # 774				1378.76	NAIL	
16	6.90					
		1385.66				
			1.86			
TP # 775				1383.80	NAIL	
17	6.64					
		1390.44				
			3.73			
TBm # 776				1386.71	Pt # 167, R.R. NAIL,	Ellsworth + ¼ mile S. of Pecos
18.			4.21			
TBm # 632				1386.28	Cotton picker spindle,	Ellsworth + S. of Pecos
		Check IN				
		Should Be		1386.24		
			OVER	0.01		

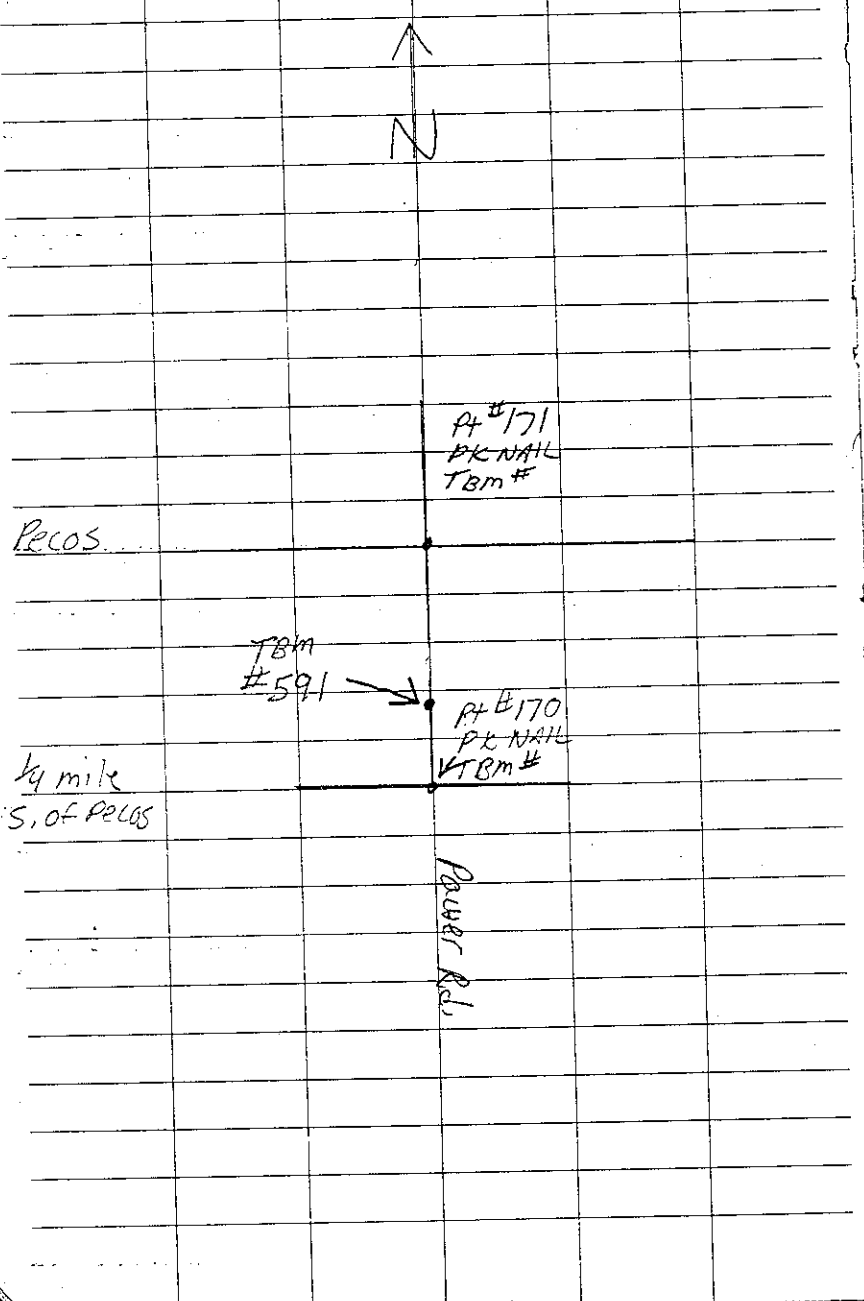


Date : 11-13-86

Crew : J. Martin
J. Kendall

Turn #1	+	HI	—	Elev.	Desc.	
TBm #588				1336.29	B.C. Flus 2	Power Rd + Germann
	3.42					
		1339.71				
			7.00			
TP #777				1332.71	NAIL	
	3.12					
		1335.83				
			7.86			
TP #778				1327.97	NAIL	
	2.79					
		1330.76				
			2.05			
TP #779				1323.71	NAIL	
	4.49					
		1328.20				
			6.79	40		
TBm #780				1321.41	Set 1/2"	Recker + Germann

Turn #2	+	HI	−	Elev.	Desc
TBM #588½				1336.29	B.C. Flash Powr Rd + Germann
	3.42				
		1339.71			
			6.96		
TP #777				1332.75	NAIL
	3.08				
		1335.83			
			7.82		
TP #778				1328.01	NAIL
	2.73				
		1330.74			
			7.00		
TP #779				1323.74	NAIL
	4.45				
		1328.19			
			6.79		
TBM #780				1321.40	Set A+T Recker + Germann

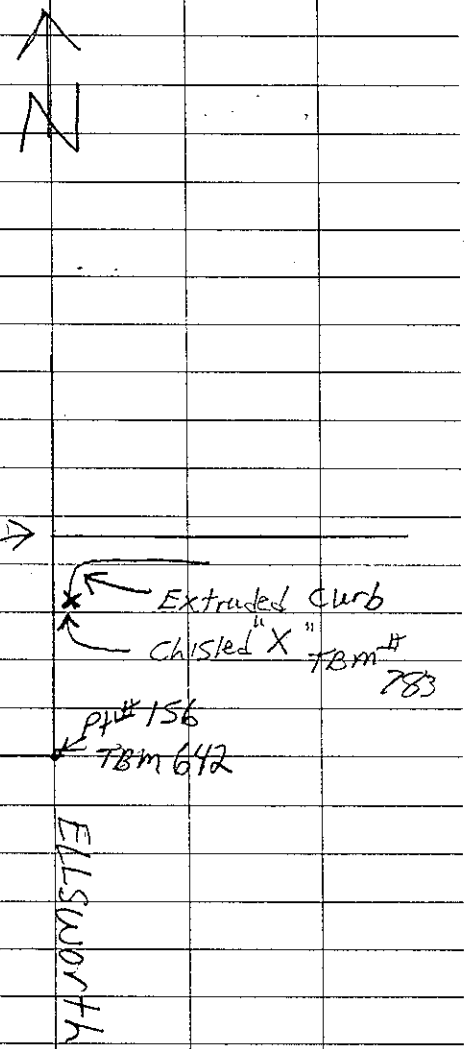


Date : 11-13-86

crew : J. Martin
J. Kendall

	+	HI	—	Elev.
TBM #591				1335.28
	1.86			
		1337.14		
			1.65	
TBM #781				1335.49
			4.82	
TBM #782				1330.67

	Desc
P.K. NAIL	near Pecos + Power 260' N. of R. Hen House
Pt #170, P.K. NAIL	Power + ¼ miles S. of Pecos
Pt #171 P.K. NAIL	Power + Pecos



DATE: 11-13-86

Crew: J Martin
J Kendall

	+	HI	−	Elev.
TBm #642				1382.97
	3.96			
		1391.93		
			335	
TBm #783				1388.58

Desc.

Pt # 156, Pk. NAIL Ray Rd + Ellsworth

Chisled "X" entrance to G.M. proving Grounds
South End extruded Curb
Out front

11-21-1986

M. Arnoldy

T. Johnson

Level Loop

GM Proving Grounds

Turn 1	+	HI	-	Elev	Desc.
T.B.M 783				1388.58	Chisled X Entrance To G.M Proving Grounds S. End Extruded Curb out front
	7 10	1395 68			
T.P.			3 99	1391.69	T/C
	3 74	1395.43			
T.P.*			2 71	1392 72	T/C
	2 15	1394 87			
T.P.			12 35	1382 52	T/C
	9 72	1392 24			
T.P.*			0 26	1391 98	T/C
	11 84	1403 82			
T.P.			4 50	1399 32	Nail
	7 13	1406 45			
T.P.			3 10	1403 35	Nail

Turn 2	+	HI	-	Elev	Des.
T.B.M. 783				1388.58	Chisled x Entrance to Gm. Proving Grounds
					S. End Extruded Curb out Front
	7.10	1395.68			
T.P.1			4.44	1391.24	~~[illegible]~~ FL
	4.18	1395.42			
T.P.~~1~~ 2			3.16	1392.26	FL
	2.61	1394.87			
TP			12.83	1382.04	FL
	10.18	1392.22			
T.P.~~1~~			0.74	1391.48	FL
	12.31	1403.79			
T.P.			4.12	1399.67	NAIL
	7.20	1406.87			
T.P.			3.10	1403.77	NAIL

Turn 1	+	HI	-	Elev
	7 55	1410 90		
T.P.			3 72	1407 18
	4 36	1411 54		
T.B.M 784			4 69	1407 05
T.P. #2				1392 72
	4 65	1397 37		
T.P.			1 50	1395 87
	7 55	1403 42		
T P.			8 73	1402 69
	7 77	1410 46		
T. P.			0 96	1409 50
	7 50	1417 00		
T. P.			4 83	1412 17

Desc.

Rail

Post / Hub

TC

Rail

Pavement

Pavement

Pavement

Turn 2	+	HI	−	Elev	Desc
	7^{55}	1411^{32}			
T.P.			3^{79}	1407^{53}	Nail
	4^{44}	1411^{97}			
T.B.M ^{784}			4^{49}	1407^{48}	Hub Panel
T.P. #2				1392^{26}	E 48
	5^{09}	1397^{35}			
T.P.			1^{45}	1395^{90}	Nail
	7^{45}	1403^{35}			
T.P.			0^{75}	1402^{60}	Pavement
	7^{80}	1410^{40}			
T.P.			0^{95}	1409^{45}	Pavement
	7^{48}	1416^{93}			
T.P.			4^{82}	1412^{11}	Pavement

Turn	+	HI	-	Elev
...	...	...	...	1412 17
...	4 90	1417 07	...	...
T.B.M 785	...	...	4 41	1412 66
T.P.	...	...	7 40	1409 67
...	4 62	1414 29	...	...
T.P.	...	...	7 70	1406 59
...	3 95	1410 54	...	...
T.P.	...	...	6 90	1403 64
...	4 92	1408 56	...	...
T.B.M 786	...	...	5 54	1403 92

HOT Panel # 4101

Pavement

NAD

NAVD

Hub Panel

	+	HI	-	Elev
Turn 2				1412.11
	4.90	1417.01		
T.B.M. 785			4.41	1412.60
T.P.			7.40	1409.61
	4.62	1414.23		
T.P.			7.77	1406.46
	4.02	1410.48		
T.P.			6.84	1403.64
	4.84	1408.48		
T.B.M. 786			5.54	1402.94

H&T Panel # 401

Pavement

Nail

Nail

H&b Panel

11-22-82

Level Loop
Williams AFB

M. Arnold
T. Johnson

Sta	+	HI	−	Elev		
				1325.64		B/c in Holt Williams Field A.F.B Entrance
	4.06	1329.70				
T.P.			3.96	1325.74		T/C
	5.54	1331.28				
T.P. 2			2.77	1328.51		T/C
	7.28	1335.79				
T.P. 3			2.22	1333.57		T/C
	7.53	1341.10				
T.P. 4			0.85	1340.25		T/C
	6.08	1346.33				
T.B.M. 787 5			2.56	1343.77	1343.86	Black □ P.C. T/C Edge Runways
	2.73	1346.50				
Pt. #788 6			4.27	1342.23	(1342.30)	Paper Panel Across from Fire Station E. Street

Sta	+	HI	−	Elev	
		1346 50			
			34 2	1343 08	
T.P. 7			7 33	1339 17	
	1 35	1346 52			
T.P. 6			7 64	1332 88	
	2 80	1335 68			
T.P. 5			7 22	1328 46	
	4 67	1333 13			
T.P. 10			7 65	1325 48	
	3. 78	1329 26			
			3. 78	1325 48	±0.16
				1325 64	
	4 96	1330. 60			
			4 21	1326 39	

FOUND & WILLIAMS

E. E Street Field Rd & Edge Runway

T/C

T/C

T/C

T/C

B/C in H.H. Williams A.F.B. Entrance 1325 64

B/C in H H Williams A F B Entrance

P.K South Side Bridge on Williams Field Rd

✓ - PANEL

Williams AFB Entrance

Sta 787	+	HI	−	Elev	
T.B.M.				100 00	1343 86
	5 70	105 70			
		1349 56			
T.P. 1			1 35	104 35	
			1	1348 21	
	7 69	112.04			
	1355 90 →				
T.P 2			1 42	110. 62	
				1354 48	
	5 30	115 92			
	1359 78 →				
T.P. 3			2 53	113 39	
				1357 25	
	6 56	119 95			
	1363 81 →				
T.P. 4			4 55	115 40	
			1359 26		
	6 88	122 28			
		1366 14			
P.T. 789			5 11	117 17	1361 07
				1361 03	
	4 59	121 76			
		1365 62			
T.P.			6 36	115 40	
				1359 26	

Black □ P.C. T/C Edge Runways

Conc.

Conc.

Conc.

Pavement

Dirt Paper Panel

V-34

Pavement

	+	HI	−	Elev	
				115 40	
				1359 26	
	3 10	118 50			
		1362 36			
T.P.			7 69	110 81	
				1354 67	
	3 97	114 78			
		1358 64			
T.P.			7 90	106 88	
				1350 74	
	1 46	108 34			
		1352 20			
T.P.			6 97	101 37	
				1345 23	
	3.80	105 17			
		1349 03			
			5 23	99 94	+0 06
				1343 80	

Conc.

Conc.

Conc.

T.B.M. Black D.P.C. T/c Edge Runway
1343 86

10-20-1986

TRAVERSE CHECK @ SW.
COR. SOUTH HALF

RICHEY
ARNOLDY
BURRIS

⊼ @ #301
Fo. ½" RBR.

1)

105	D	0	00	30	43
	R	180	00	56	

M∡ 179° 31' 54"

106	D	179	32	22	37
	R	359.	32	52	

M∡ 179° 32' 03"

2)

105	R	225	15	42	30
	D	45	15	18	

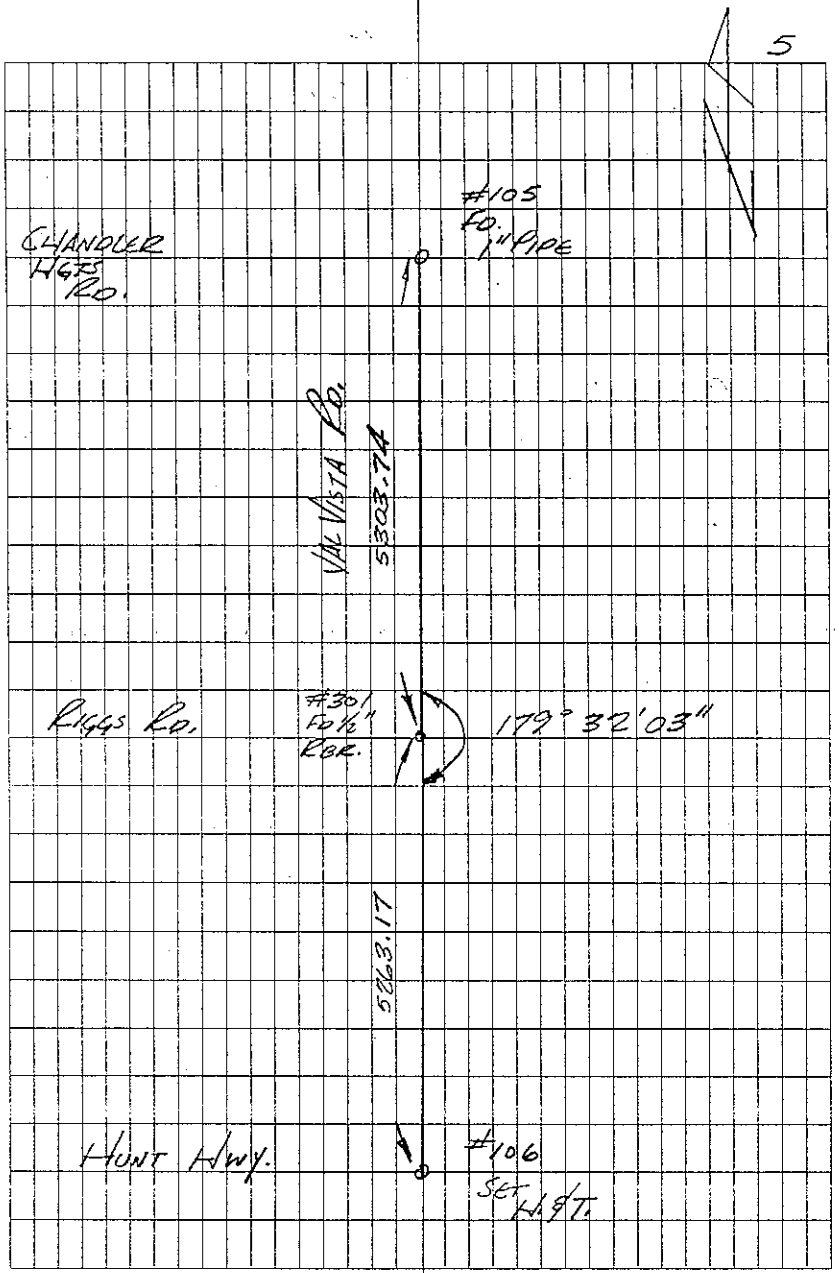
M∡ 179° 32' 12"

106	R	44	47	52	42
	D	224	47	32	

Z∡ TO #106

	D	89	54	22

SD	5263.18
HD	5263.17
M	1604.22



X @ #301

fd. ½" LBR.

Z 7 To #105

D 89 57 08

SD 5303.76

HD 5303.74

M 1616.58

10-20-1986

HORIZ. CONTROL TRAVERSE

NORTH HACA

RICHEY

ARNOLDY

BURRIS

T @ #100

Fd. BC IN H.H.

1)

320	D	0	00	30	43
	R	180	00	56	

M∠ 94° 32' 17"

315	D	94	32	48	60
	R	274	33	12	

M∠ 360° 00' 09"

320	D	0	00	36	52
	R	180	01	08	

2)

320	R	225	15	42	29
	D	45	15	16	

M∠ 94° 32' 21"

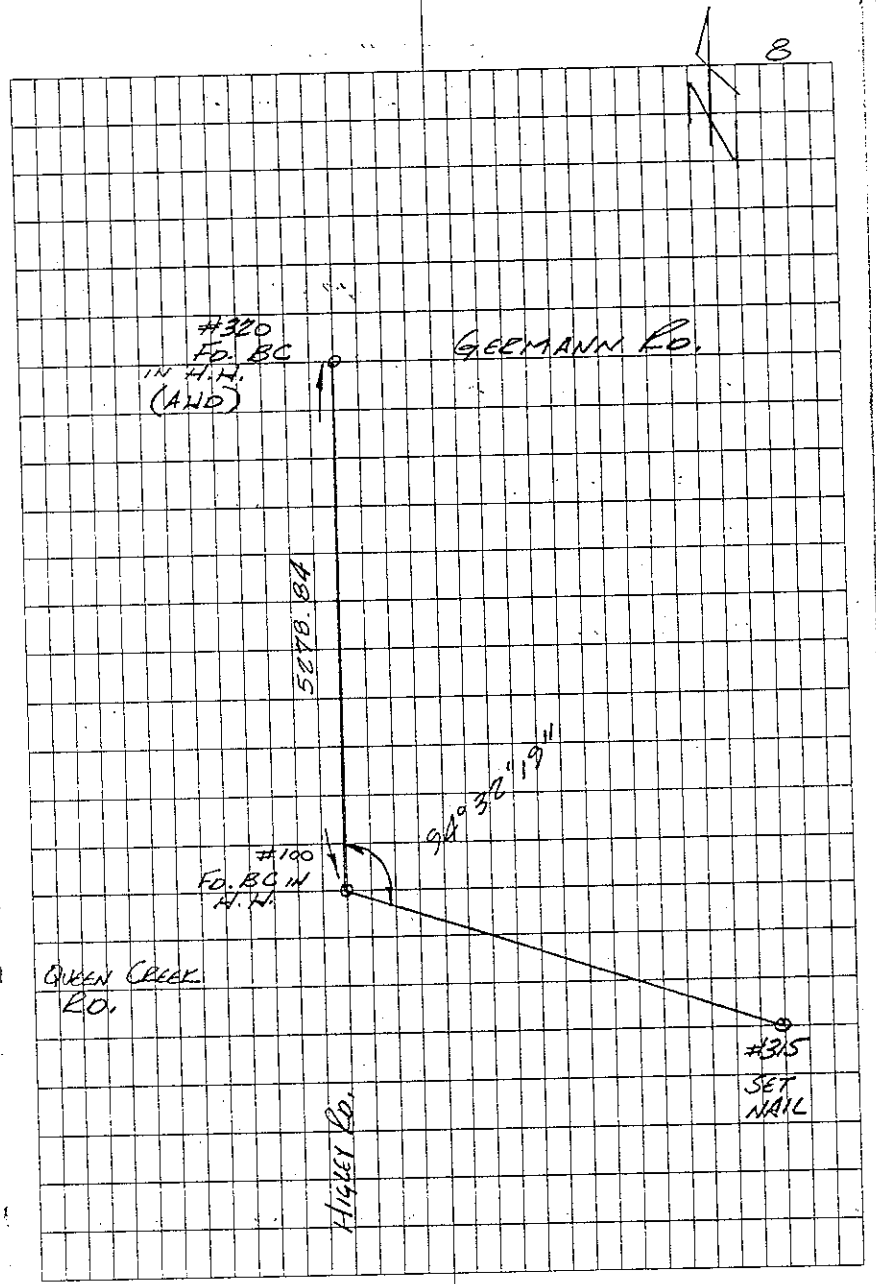
315	R	319	48	04	50
	D	13	47	36	

M∠ 360° 00' 06"

320	R	225	15	46	35
	D	45	15	24	

M∠ 94° 32' 19"

M∠ 360° 00' 07.5"



π @ #100

FD. BC IN H.H.

Z ∡ To #320

D 90 09 08

SD 5278.86

HD 5278.84

M 1609.00

K @ #320

Fo. BC IN H.H.

D

150 D 0 00 30 45

R 180 01 00

M = 181° 00' 05"

100 D 181 00 38 50

R 01 01 02

M = 181° 00' 03"

2)

150 R 225 15 36 27

D 45 15 18

M = 181° 00' 01"

100 R 46 15 40 28

D 226 15 16

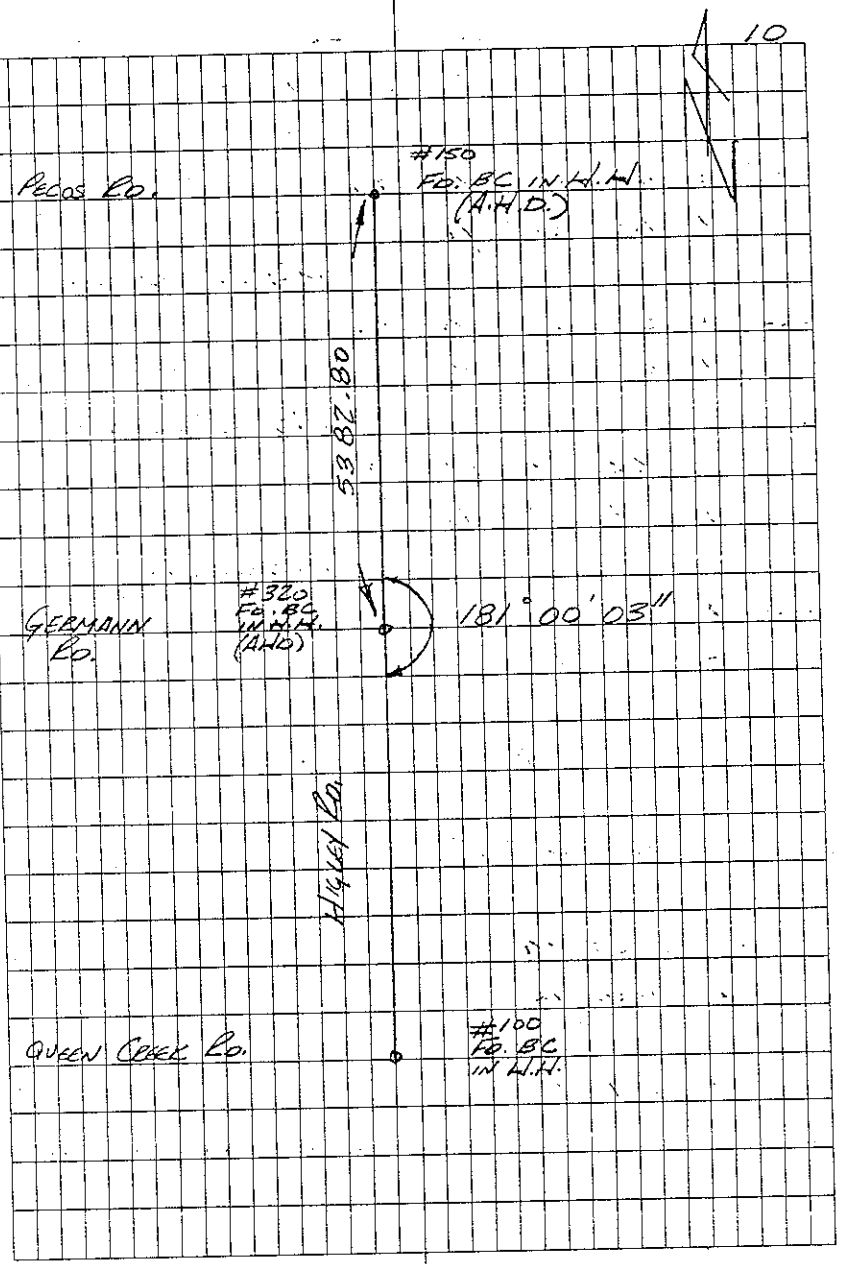
EX TO # 150

D 90 06 12

SD 5382.78

HD 5382.80

M 1640.69



T @ #150

Fd. BC in H.H.

1)

151 D 0 00 42 57

R 180 01 12

M ∡ 89° 18' 28"

320 D 89 19 14 25

R 269 15 36

M ∡ 89° 18' 19"

2)

151 R 225 15 30 39

D 45 15 48

M ∡ 89° 18' 10"

320 R 314 34 04 49

D 134 33 34

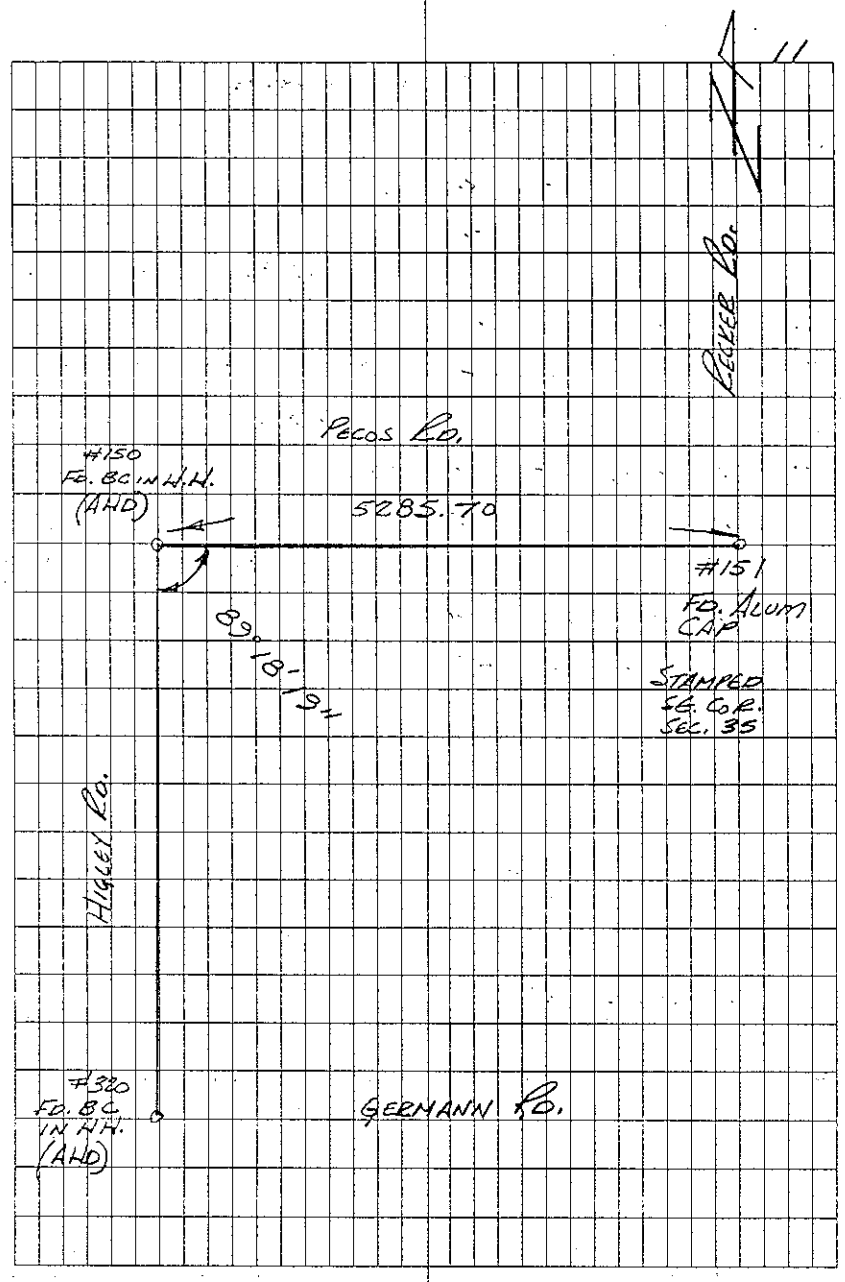
E ∡ to #151

D 89° 50' 38"

SD 5285.74

HD 5285.70

M 1611.08



K @ #151

Fd. Alum. CAP

D

321 D 0 00 30 43

R 180 00 56

M ∡ 270° 01' 20"

150 D 270 01 44 63

R 90 02 22

M ∡ 270° 01' 19.5"

D

321 R 225 15 36 21

D 45 15 06

M ∡ 270° 01' 19"

150 R 135 16 54 40

D 315 16 26

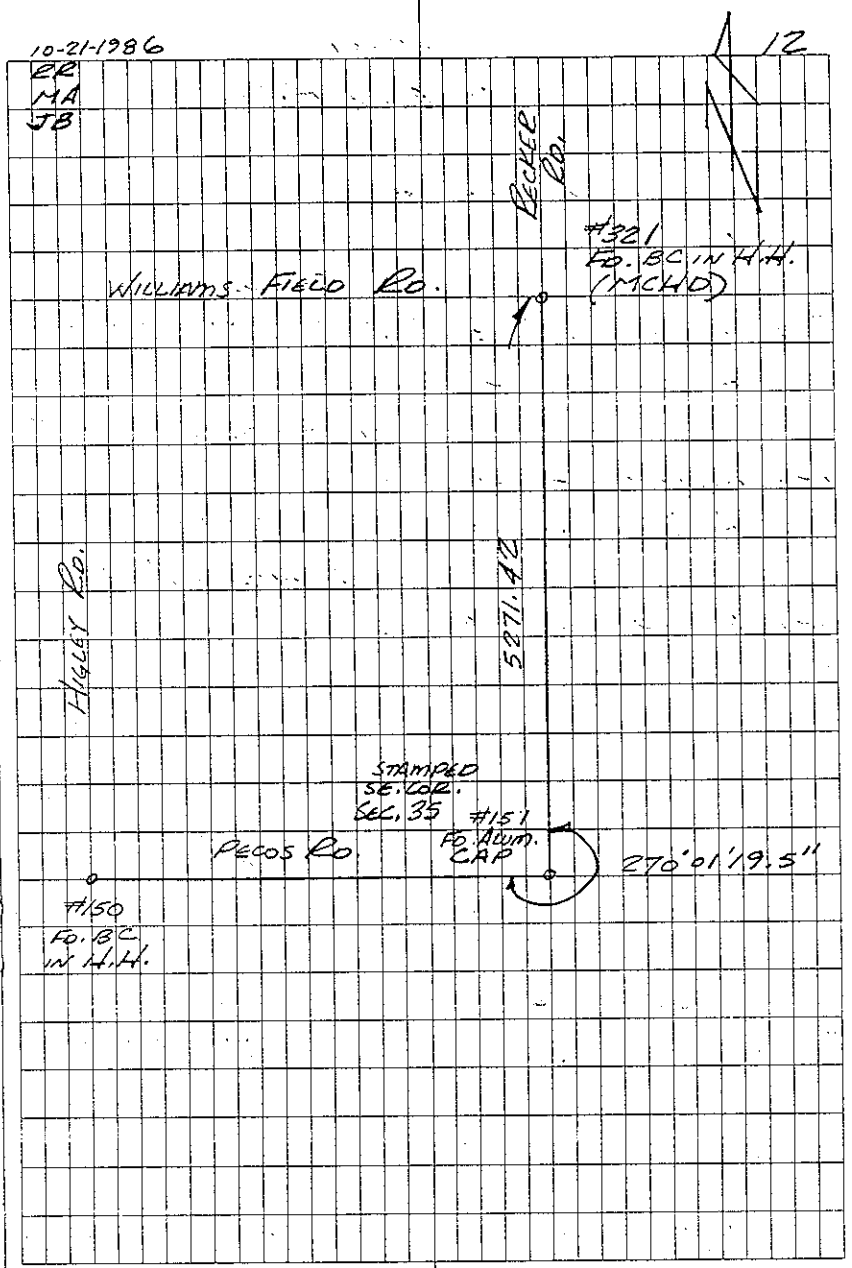
Z ∡ To #321

D 90 04 56

SD 5271.44

HD 5271.42

M 1606.73



13

x @ #321

Fd. BC in H.H.

1)

152 D 0 00 42 51

R 180 01 00

M = 180° 08' 56"

151 D 180 09 32 47

R 0 10 02

2) M = 180° 08' 58.5"

152 R 225 15 30 72

D 45 14 54

M = 180° 09' 01"

151 R 45 24 32 73

D 225 23 54

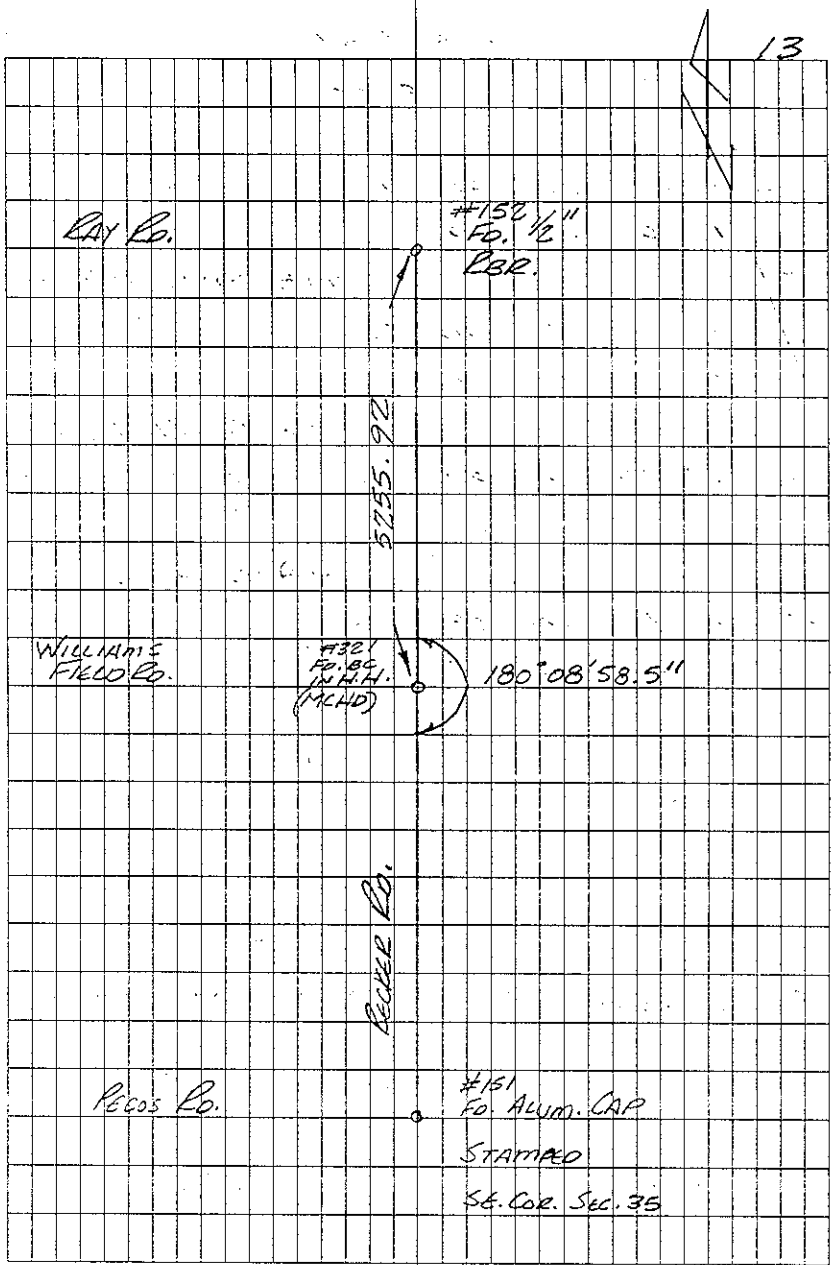
E to #152

D 90 04 02

SD 5255.94

HD 5255.92

M 1602.00



⊼ @ #152

Fd. 1/2" RBR.

1) 153 D 0 00 36 49

R 180 01 02

M∡ 89° 49' 07"

321 D 89 49 40 56

R 269 50 12

M∡ 89° 49' 11.5"

2) 153 R 225 15 30 72

D 45 14 54

M∡ 89° 49' 16"

321 R 315 04 42 28

D 135 04 14

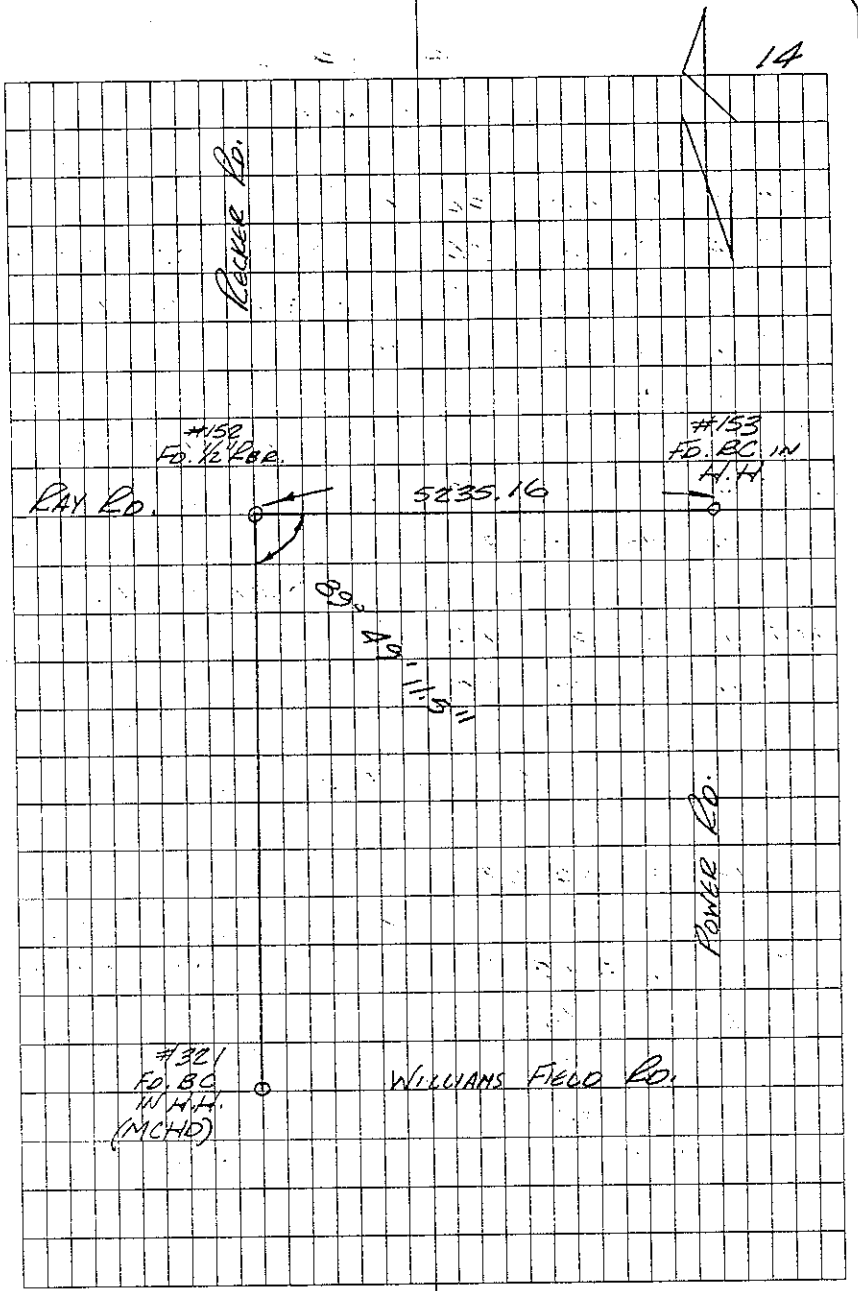
Z ∡ To #153

D 89 50 28

SD 5235.18

HD 5235.16

M 1595.69



x @ #153

Fd. BC IN H.H.

1)

322 D 0 00 36 51

R 180 01 06

M ∡ 181° 14' 14"

152 D 181 15 00 15

R 01 15 30

M ∡ 181° 14' 24.5"

2)

322 R 225 15 42 31

D 45 15 20

M ∡ 181° 14' 35"

152 R 46 30 18 66

D 226 29 54

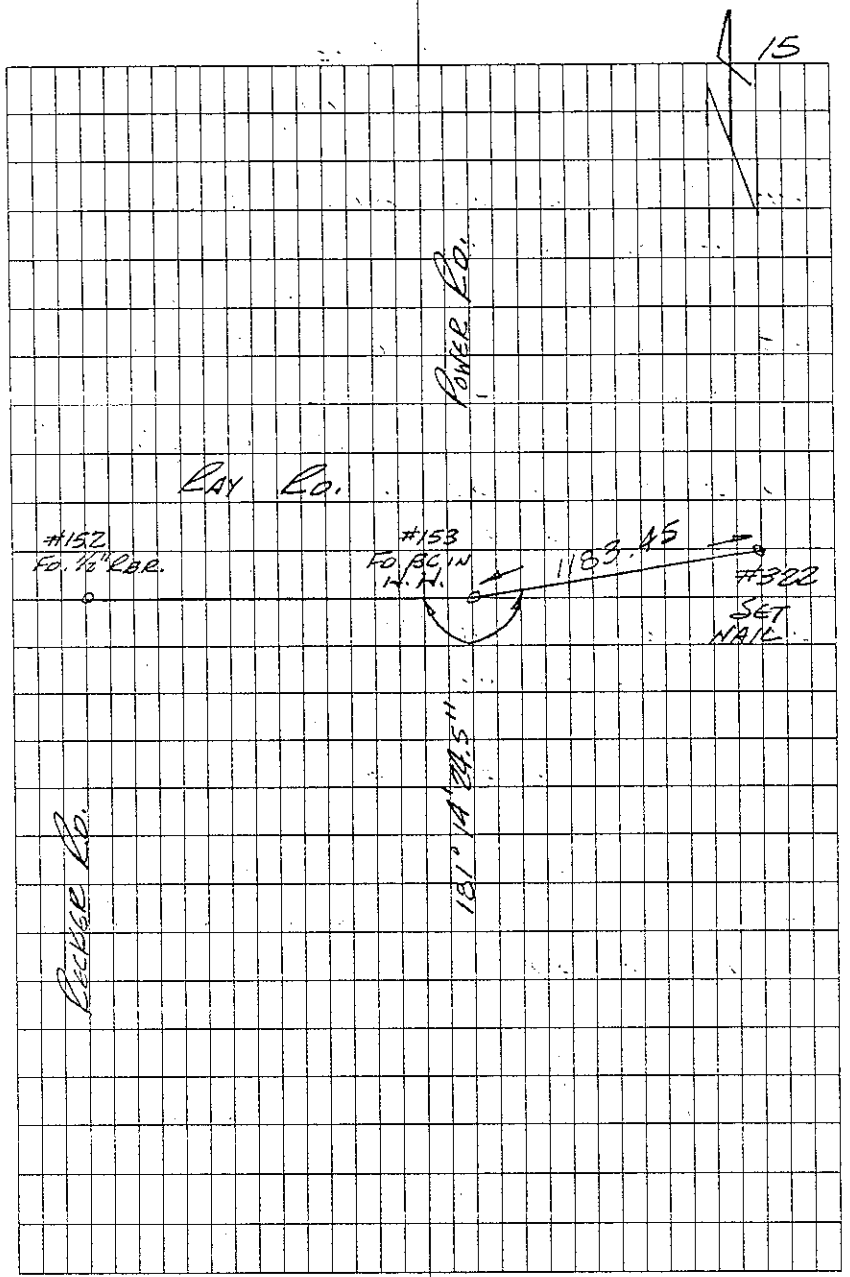
ED to #322

D 89 24 52

SD 1183.52

HD 1183.45

M 360.73



x @ #322
SET NAIL

1)

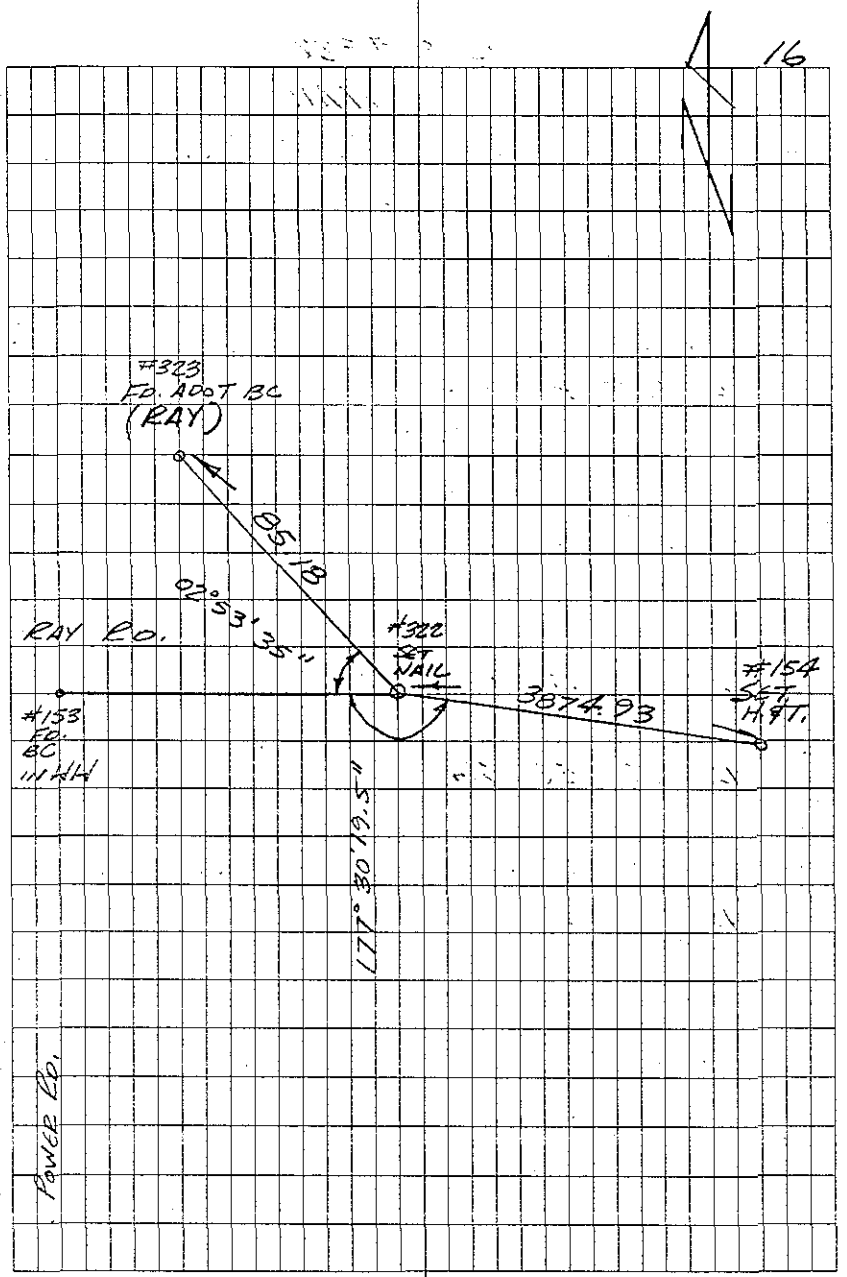
154	D	0	00	42	61
	R	180	01	20	
					M∡ 177° 30' 20"
153	D	177	31	06	21
	R	357	31	36	
					M∡ 180° 23' 48"
323	D	180	24	30	49
	R	0	25	08	

2)

154	R	225	15	30	15
	D	45	15	00	
					M∡ 177° 30' 19"
153	R	42	45	36	34
	D	222	45	32	
					M∡ 180° 24' 01"
323	R	45	39	32	16
	D	225	39	00	

M∡ 177° 30' 19.5"

M∡ 180° 23' 54.5"



x @ #322
SET NAIL

EA TO #154

D 89 53 06

SD 3874.94
HD 3874.93

M 1181.08

EA TO #323

D 92 58 24

SD 85.29
HD 85.18

M 26.00

T @ #154
SET H.&T.

1)
155 D 0 00 30 41
R 180 00 52

M∠180°12'12"

322 D 180 12 40 53
R 0 13 06

M∠180°12'16"

2)
155 R 225 15 42 28
D 45 15 14

M∠180°12'20"

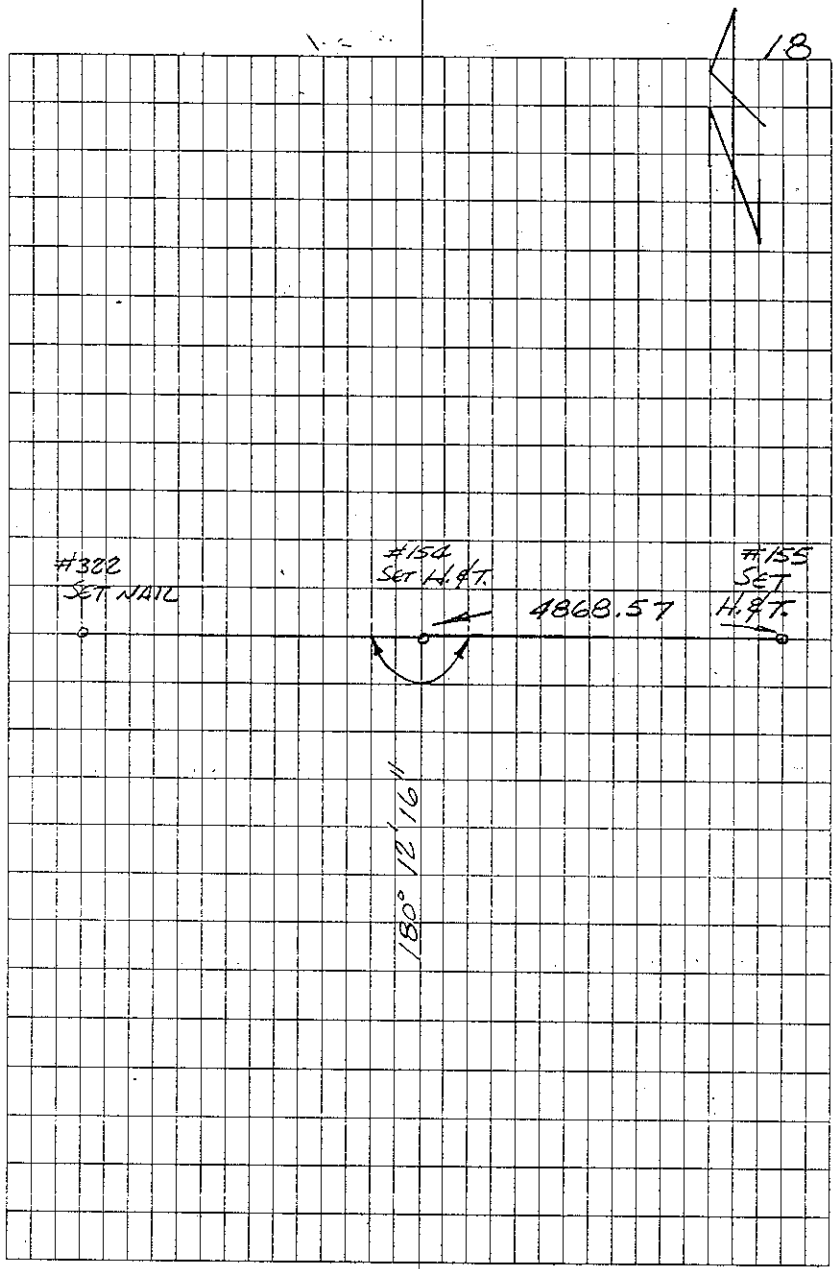
322 R 45 28 02 48
D 225 27 34

E T to #155

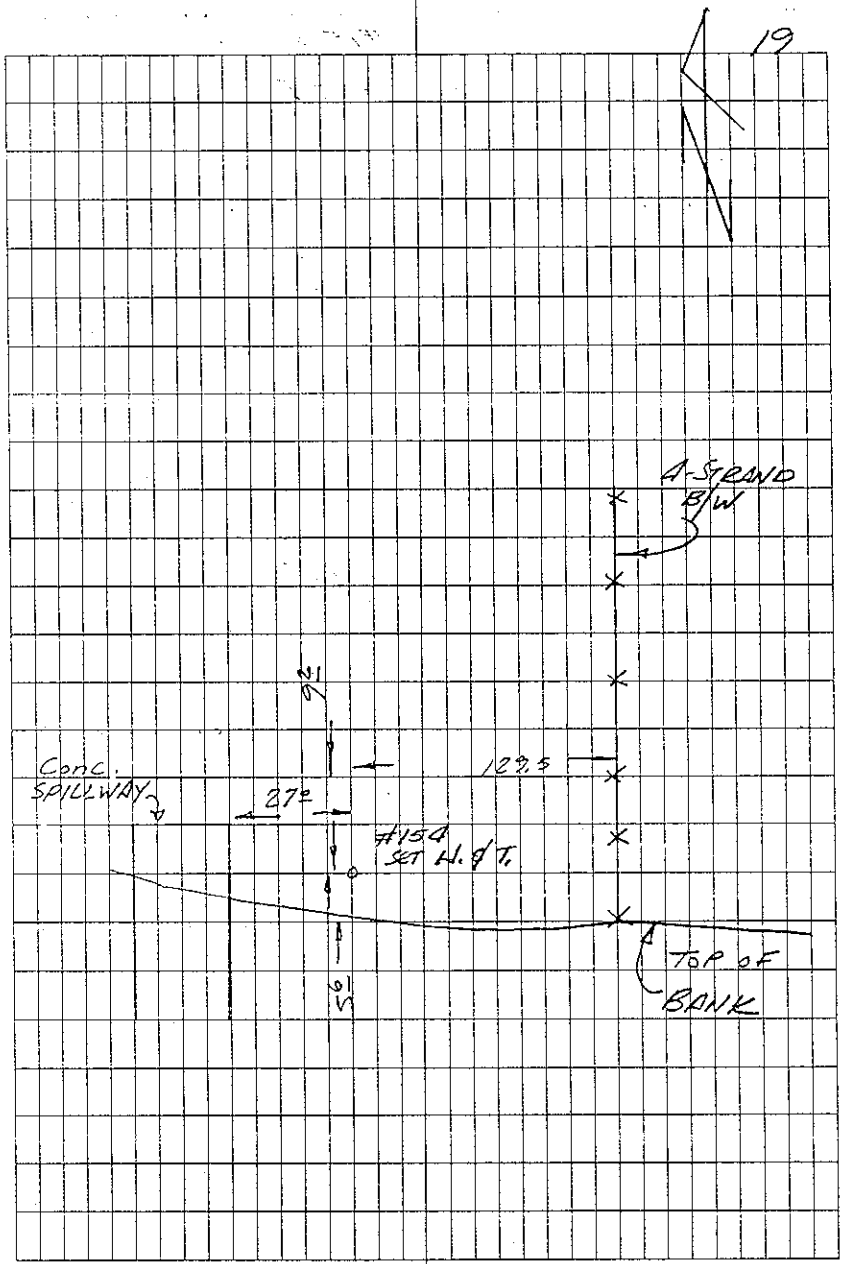
D 89 48 12

SD 4868.60
HD 4868.57

M 1483.95



RC #154
Set H. & T.



T @ #155

Set H.I.T.

1)

156	D	0	00	30	33
	R	180	00	36	

M∄ 178° 52' 30"

154	D	178	53	02	03
	R	358	53	04	

M∄ 178° 52' 32"

2)

156	R	225	15	36	45
	O	45	15	54	

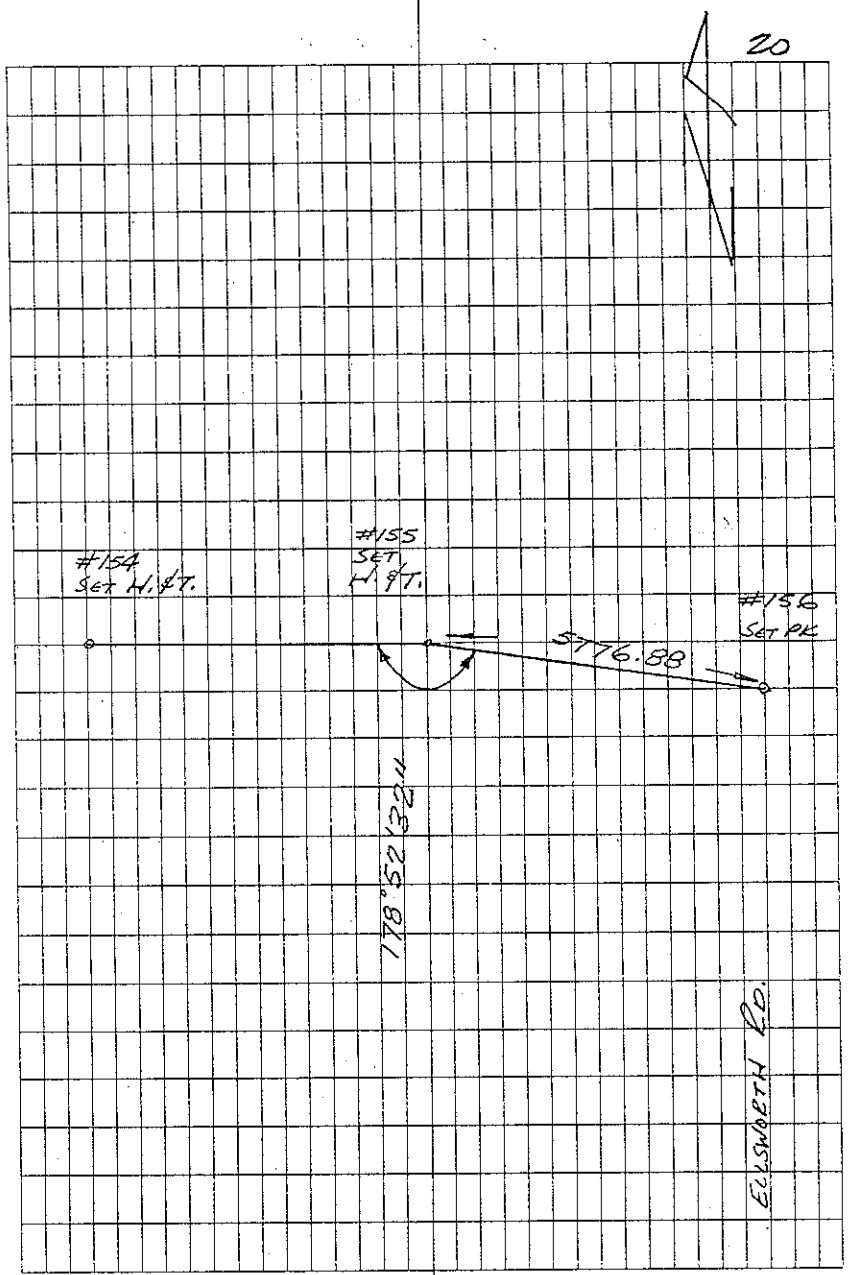
M∄ 178° 52' 34"

154	R	44	08	16	19
	O	224	08	22	

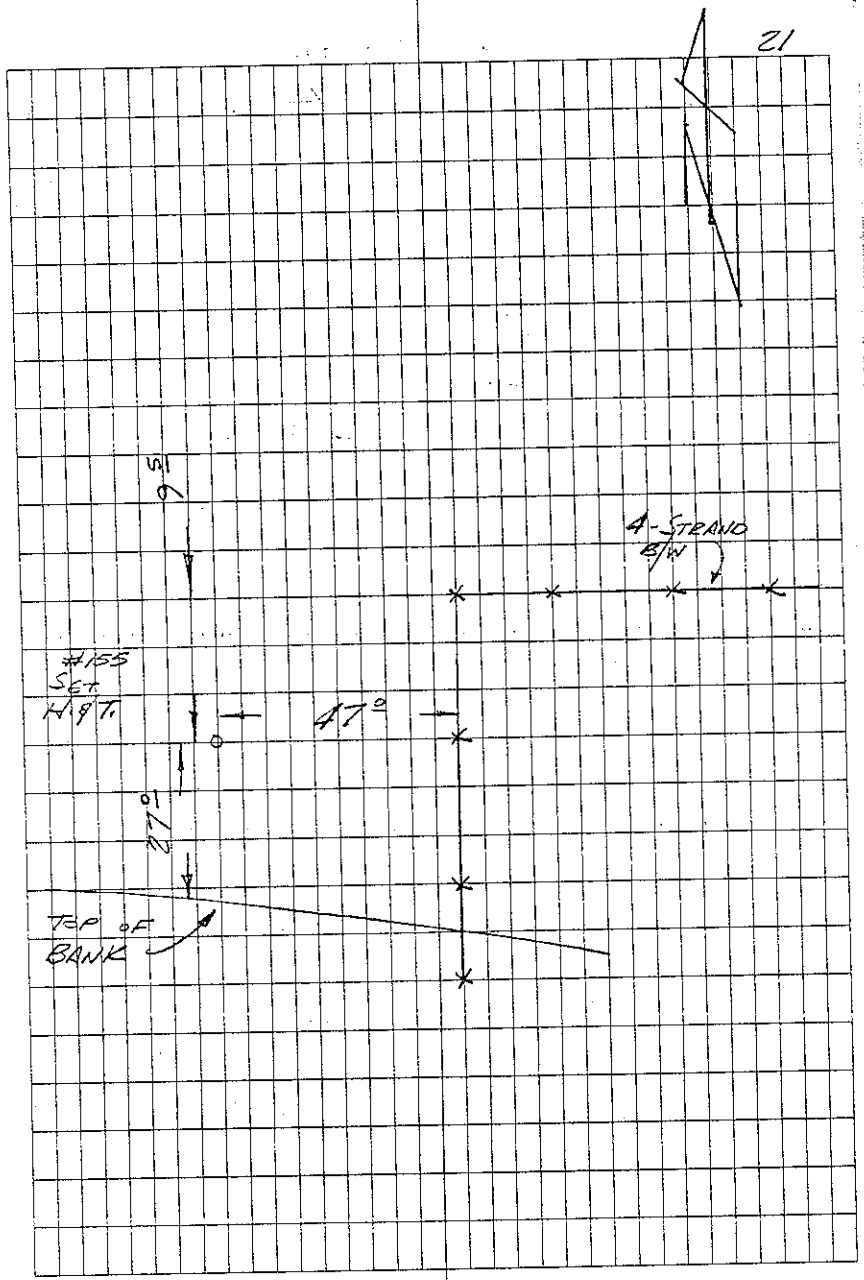
E∄ To # 156

D	89	41	38	

SD	5776.96
HD	5776.88
M	1760.82



T @ #155
SET H.&T.



T @ #156

SET PK

1)

323	D	0	00	30	28
	R	180	00	26	

M→ 271° 49' 41"

155	D	271	50	10	09
	R	91	50	08	

M→ 358° 27' 23"

324	D	358	27	56	51
	R	178	27	46	

2)

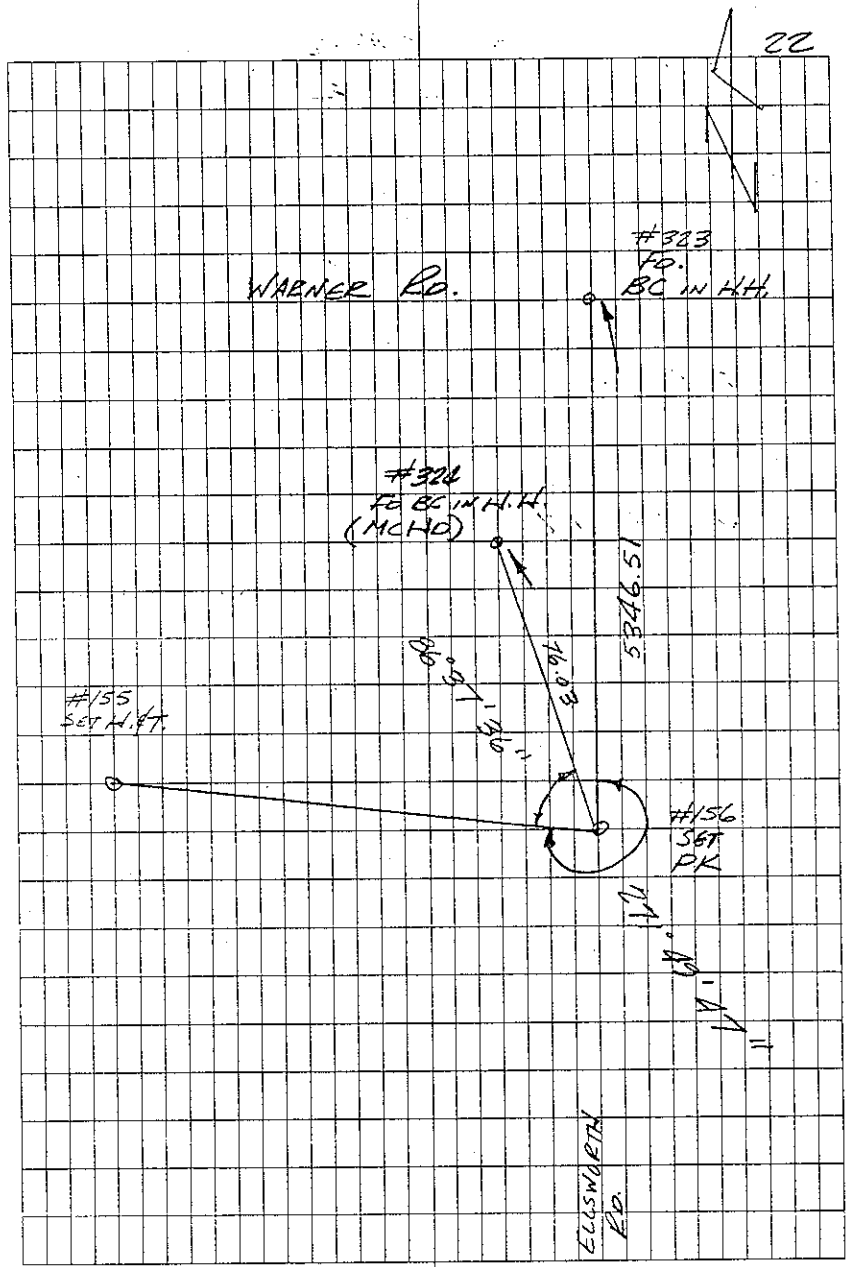
323	L	225	15	42	40
	D	45	15	38	

M→ 271° 49' 53"

155	R	137	05	30	33
	D	317	05	36	

M→ 271° 49' 47"

M→ 358° 27' 23"



T @ #156

Set PK

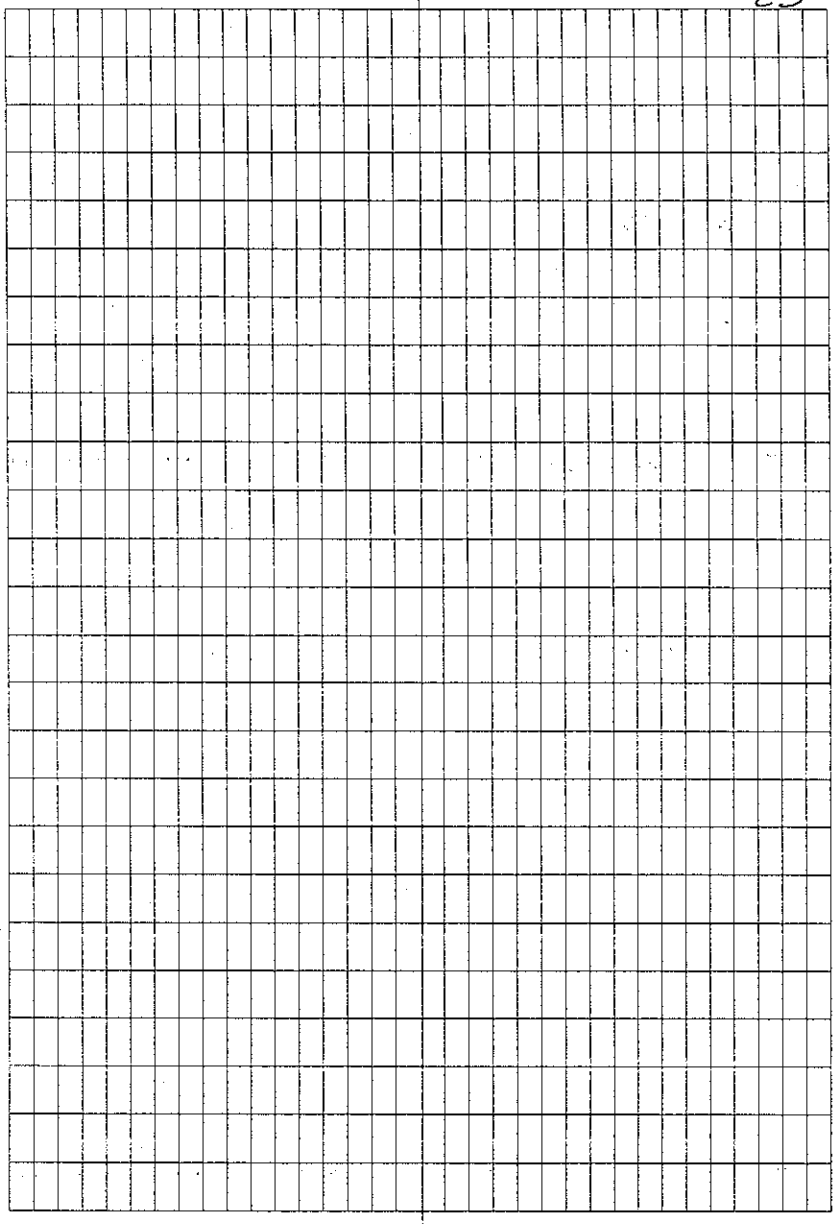
23 To #323

0 89 58 38

SD 5346.52

HD 5346.51

M 1629.62



K @ #323

Fd. BC in H.H.

1)

157	D	0	00	40	38
	R	180	00	36	

M2 180° 21' 52"

156	D	180	22	32	30
	R	0	22	28	

M2 180° 21' 55.5"

2)

157	R	225	15	30	32
	D	45	15	34	

M2 180° 21' 59"

156	R	45	37	32	31
	D	225	37	30	

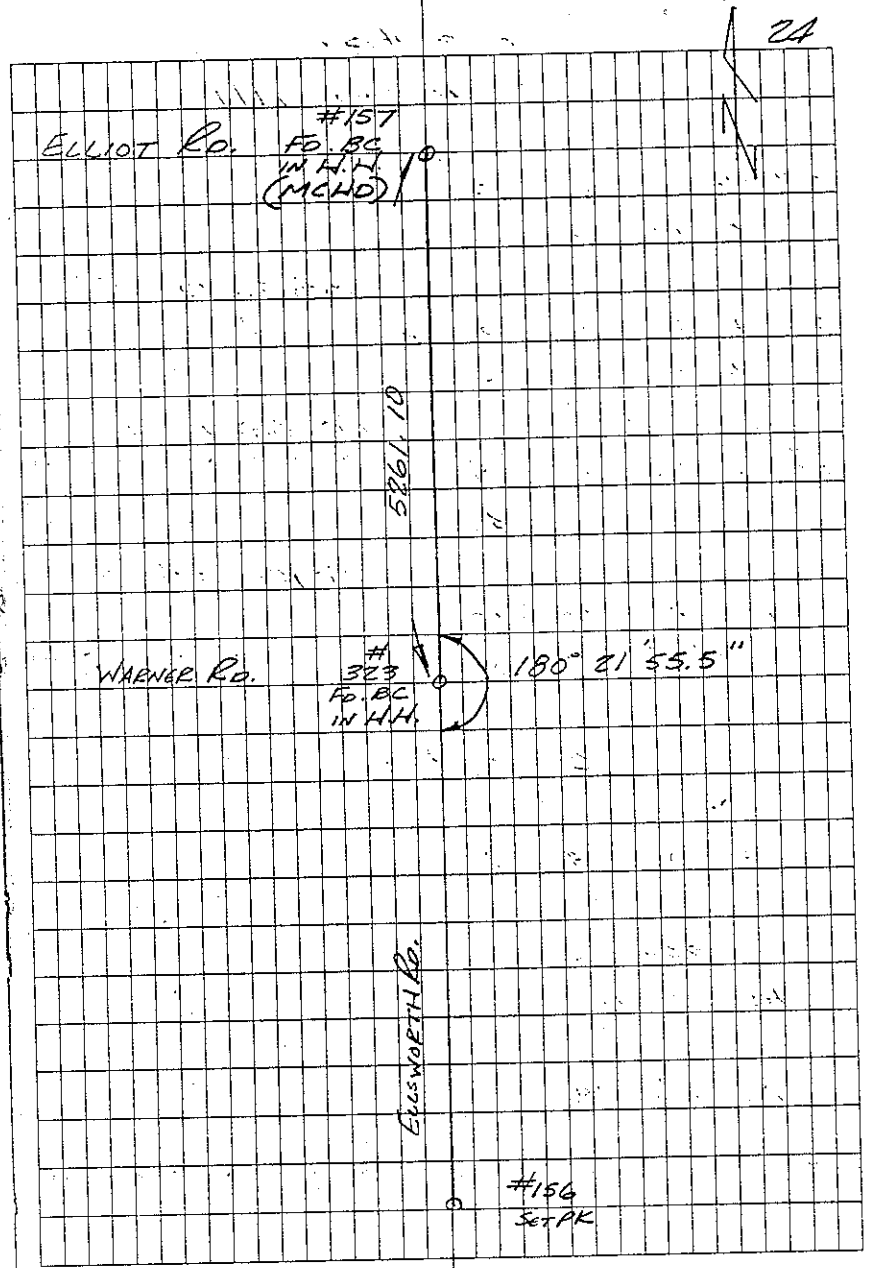
ZZ To #157

D 89 53 36

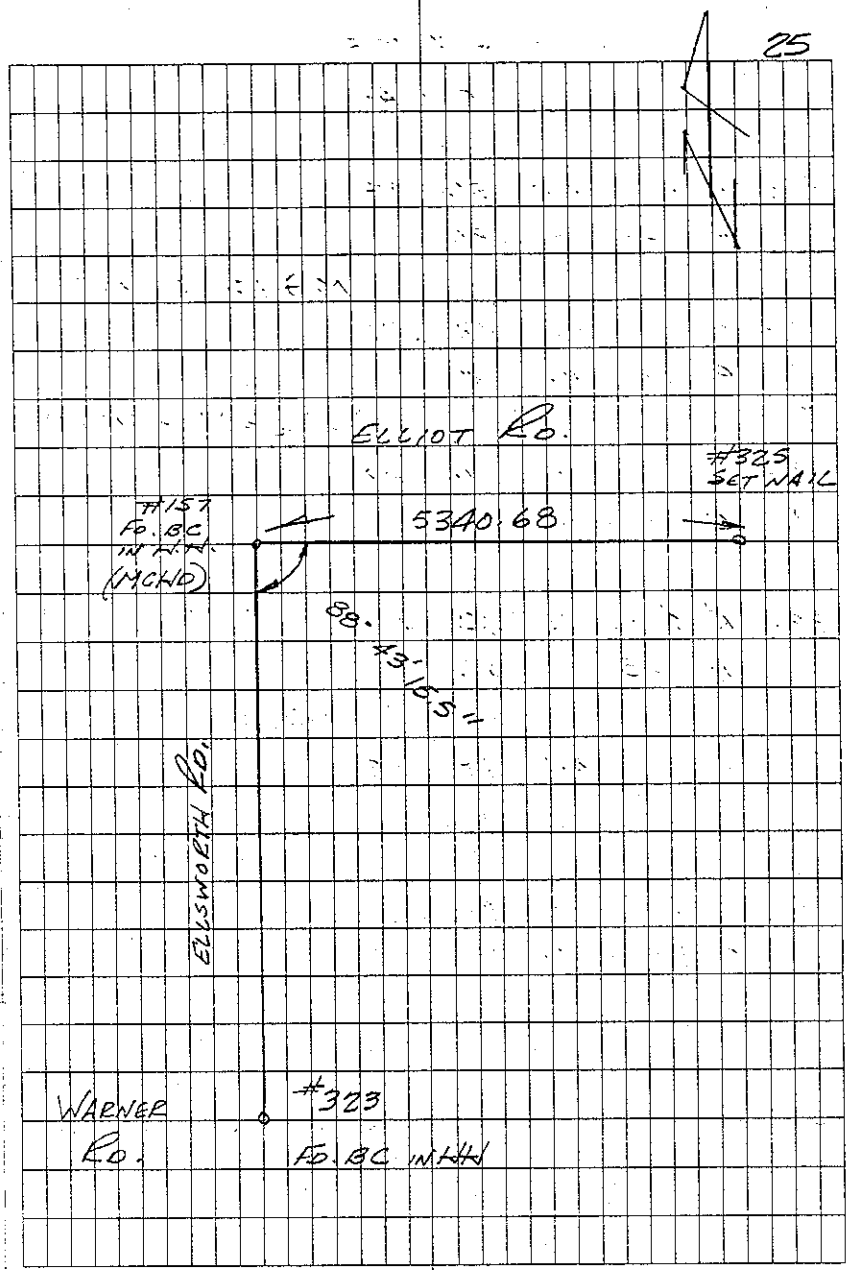
SD 5261.10

HD 5261.10

M 1603.59



				T @ #157	
				FD. BC IN HH	
D					
325	D	0	00	36	34
	R	180	00	32	
				M→ 88°43' 05"	
323	D	88	43	38	39
	R	268	43	40	
				M→ 88° 43' 15.5"	
D					
325	R	225	15	42	40
	D	45	15	38	
				M→ 88° 43' 26"	
323	R	313	59	10	06
	D	133	59	02	
				ET @ #325	
	D	89	44	04	
	SD	5340.74			
	HD	5340.68			
	M	1627.86			



⊼ @ #325

SET NAIL

1)

326	D	0	00	.30	33
	R	180	00	36	

M∡ 180° 19' 00"

157	D	180	19	32	33
	R	0	19	34	

M∡ 270° 33' 44"

158	D	270	34	16	17
	R	90	34	18	

2)

326	R	225	15	42	45
	D	45	15	48	

M∡ 180° 19' 00"

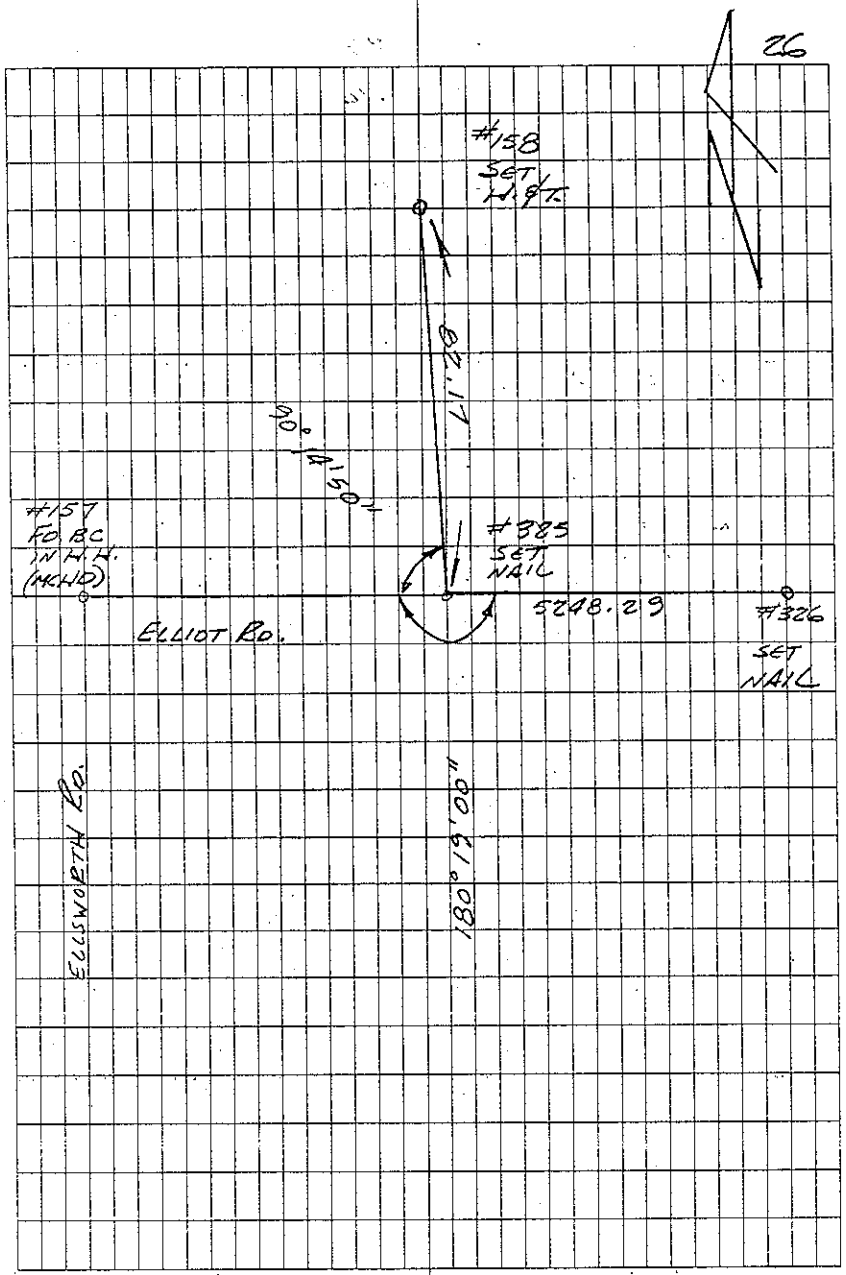
157	R	45	34	48	45
	D	225	34	42	

M∡ 270° 33' 56"

158	R	135	49	42	41
	D	315	49	40	

M∡ 180° 19' 00"

M∡ 270° 33' 50"



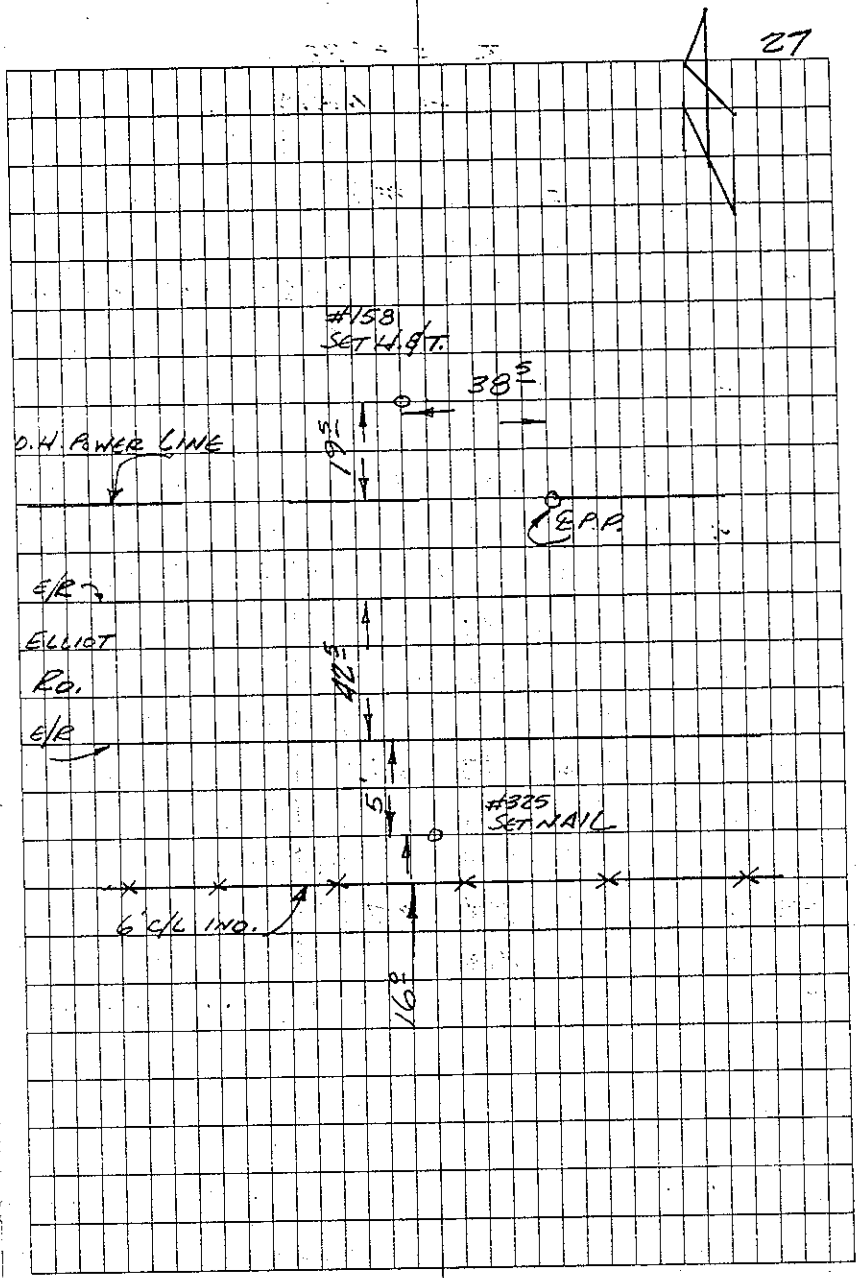
X @ #325
SET NAIL

ED TO #326

D 89 40 54

SD 5248.36
HD 5248.29

M 1599.71



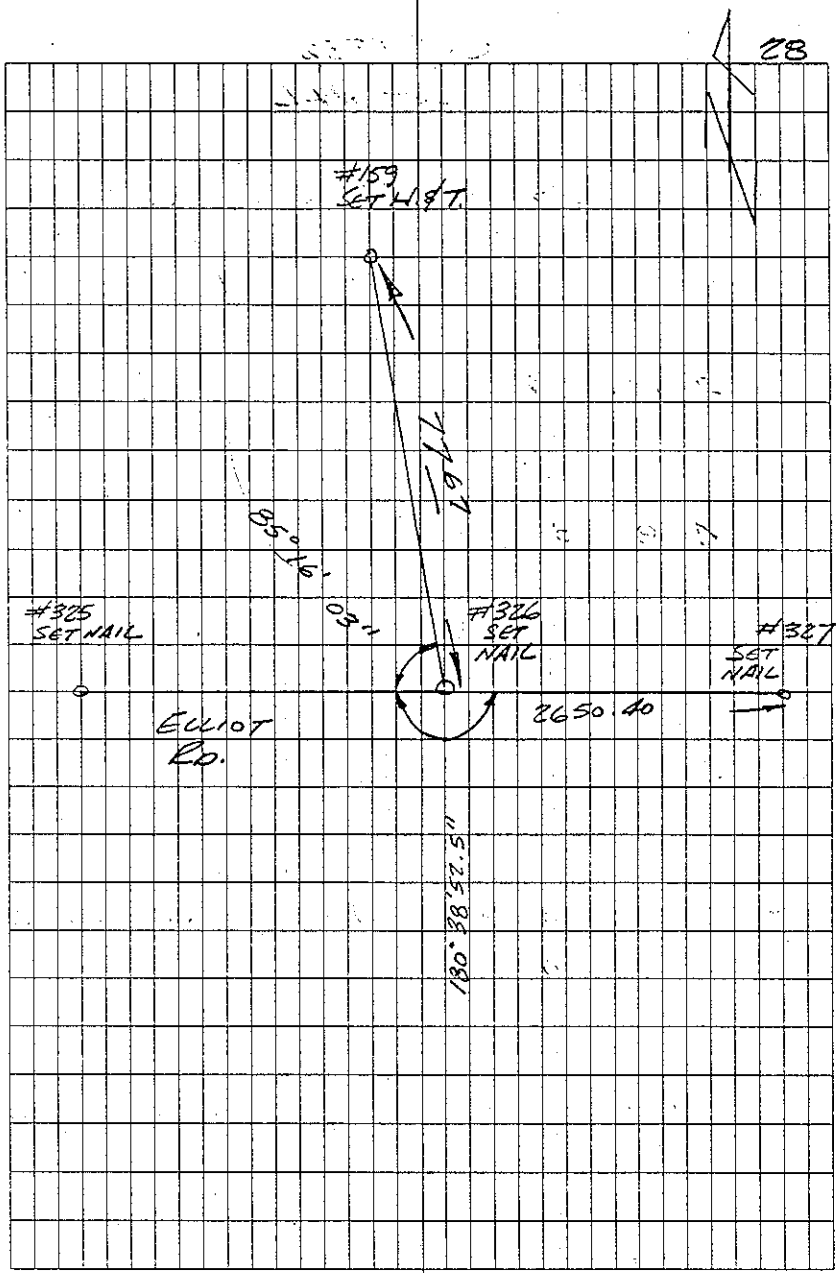
T @ #326

SET NAIL

1)					
327	D	0	00	36	33.
	R	180	00	30	
				M∢	180° 38' 54"
325	D	180	39	24	27
	R	0	39	30	
				M∢	265° 54' 57"
159	D	265	55	32	30
	R	85	55	28	
2)					
327	R	225	15	42	43
	D	45	15	44	
				M∢	180° 38' 51"
325	R	45	54	32	34
	D	225	54	36	
				M∢	265° 54' 54"
159	R	131	10	34	37
	D	311	10	40	

M∢ 180° 38' 52.5"

M∢ 265° 54' 55.5"



℄ @ #326

SET NAIL

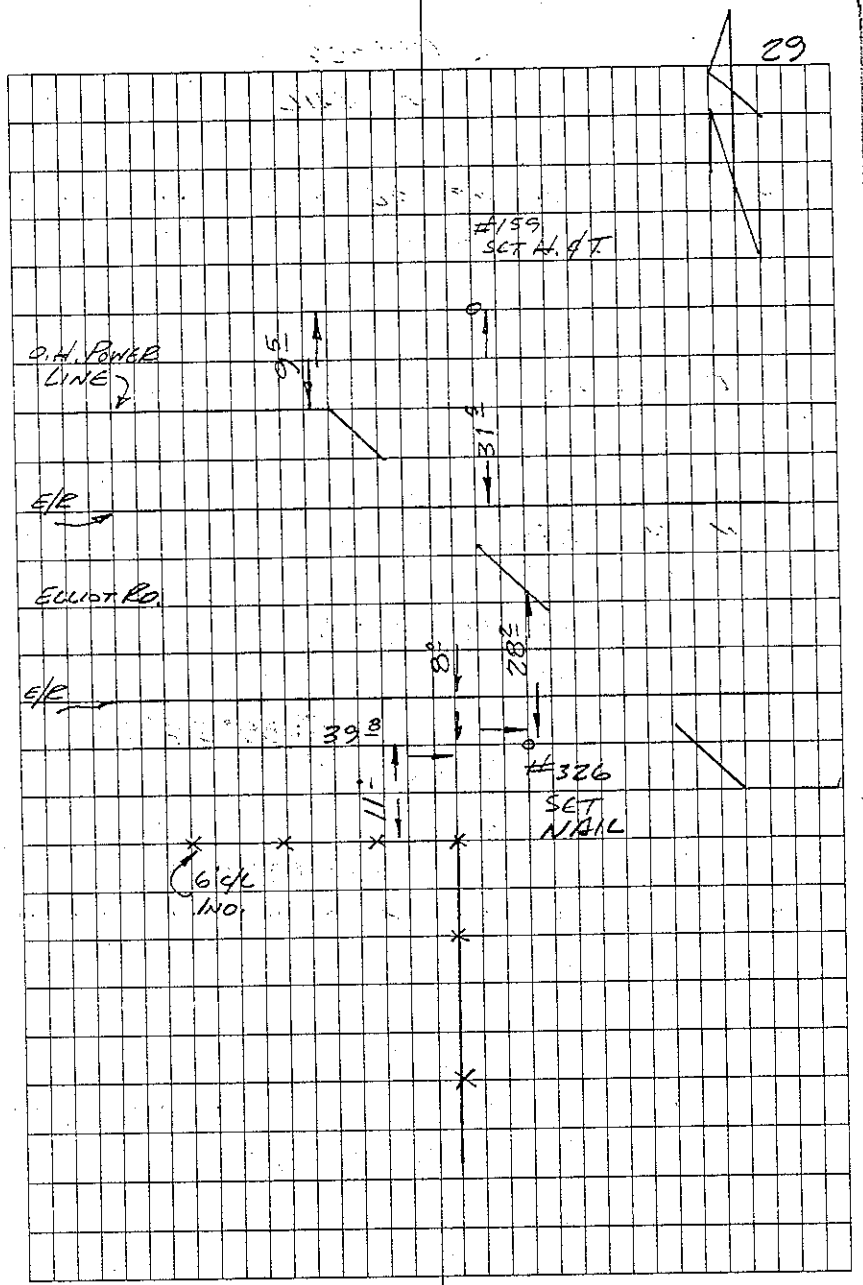
℄ TO # 327

D 89 38 52

SD 2650.46

HD 2650.40

M 807.86



T @ #327
SET NAIL

1)

328	D	0	00	42	34
	R	180	00	26	

M ∡ 89° 54' 36"

326	D	89	55	12	10
	R	269	55	08	

M ∡ 269° 58' 51"

160	D	269	59	28	25
	R	89	59	22	

2)

328	R	225	15	42	45
	D	45	15	50	

M ∡ 89° 54' 24"

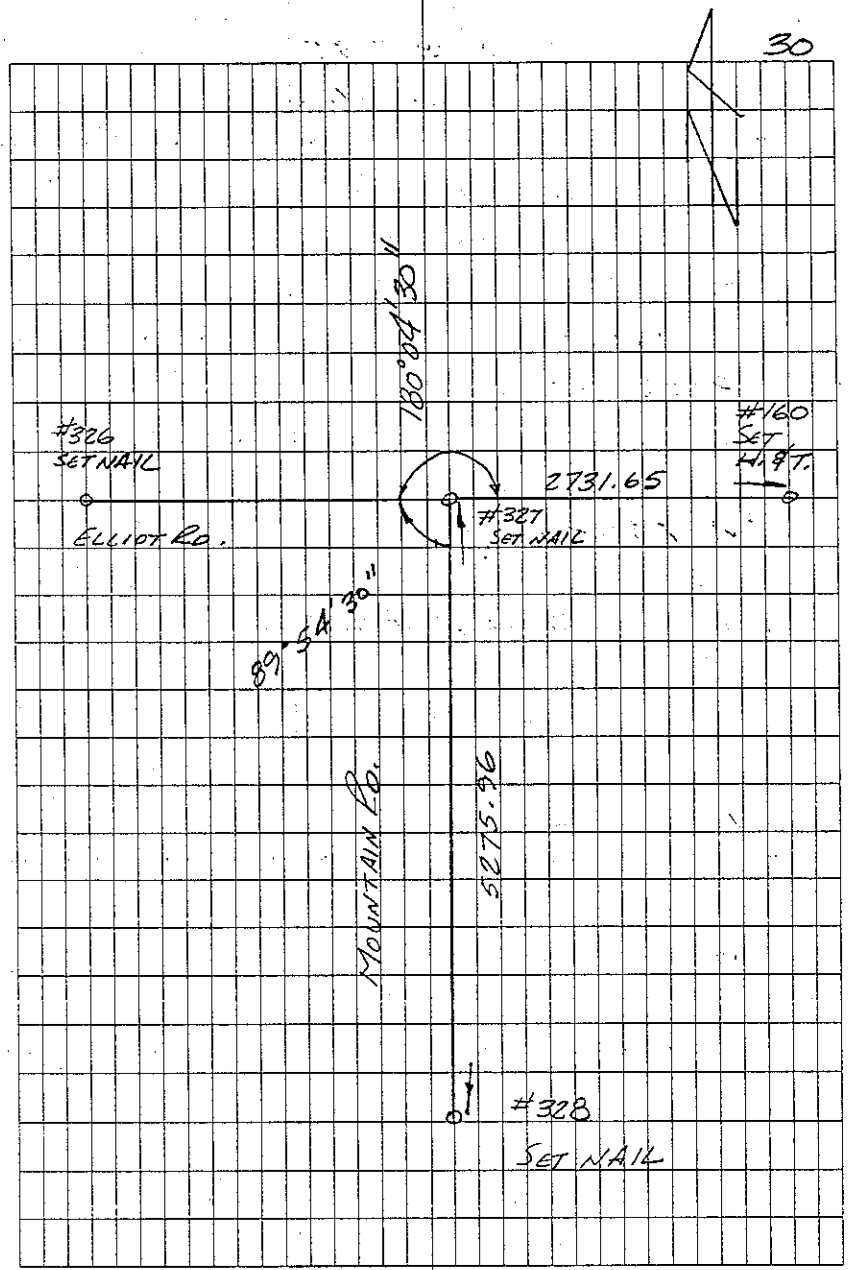
326	R	315	10	12	09
	D	135	10	06	

M ∡ 269° 59' 09"

160	R	135	14	50	54
	D	315	14	58	

M ∡ 89° 54' 30"

M ∡ 269° 59' 00"



X @ #327
SET NAIL

ZZ TO #328

D 90 08 56

SD 5275.98
HD 5275.96

M 1608.12

ZZ TO #160

D 89 30 30

SD 2731.76
HD 2731.65

M 832.64

⊼ @ #328

SET NAIL

1)

329	D	0	00	36	31
	R	180	00	26	

M∡180° 37' 37"

327	D	180	38	10	08
	R	0	38	06	

M∡180° 37' 44"

2)

329	R	225	15	36	35
	D	45	15	34	

M∡180° 37' 51"

327	R	45	53	32	26
	D	225	53	20	

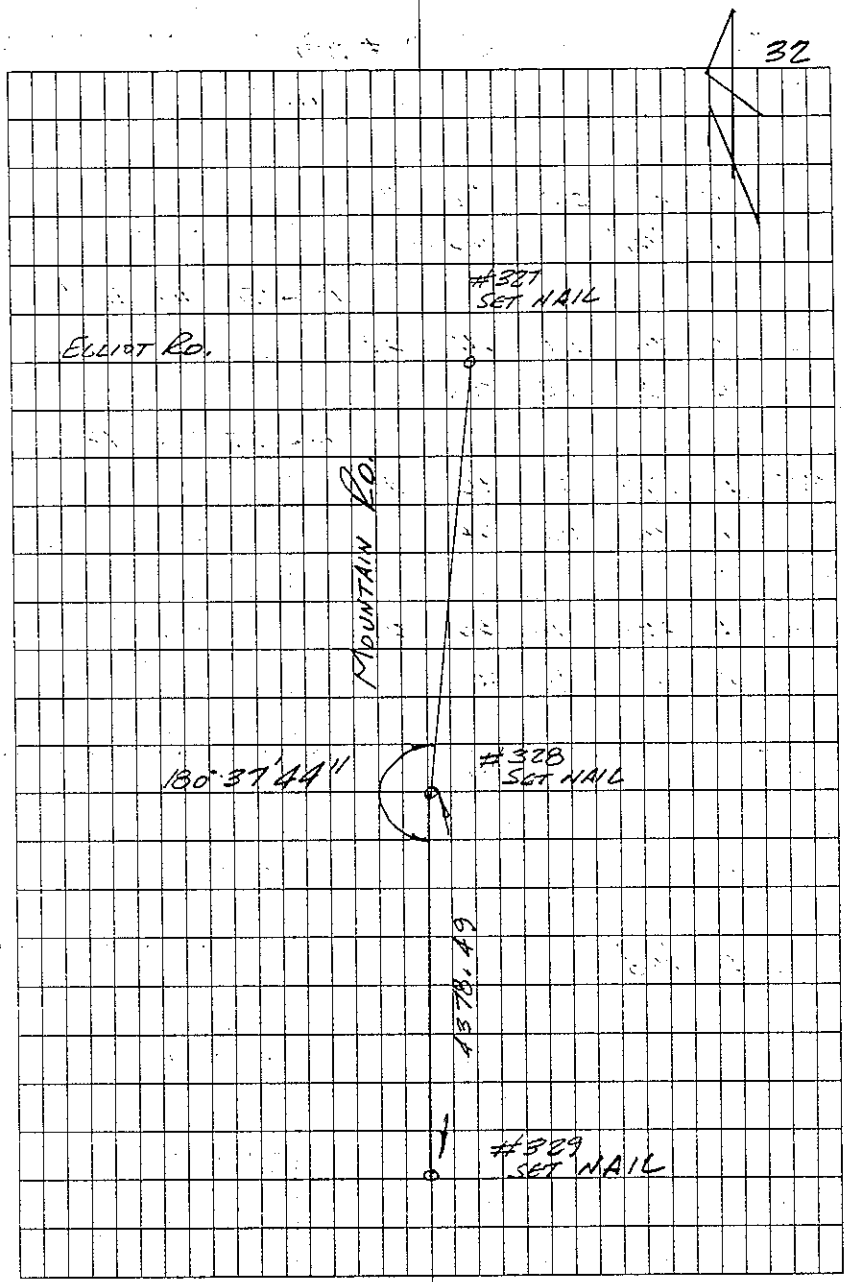
℄∡ TO #329

	D	90	13	10

SD 4378.52

HD 4378.49

M 1334.58



K @ #329
SET NAIL

1)

330	D	0	00	26	27
	R	180	00	28	

M ≠ 70° 14' 15"

162	D	70	14	46	42
	R	250	14	38	

M ≠ 178° 51' 18"

328	D	178	51	36	45
	R	358	51	54	

2)

330	R	225	15	32	31
	D	45	15	30	

M ≠ 70° 14' 25"

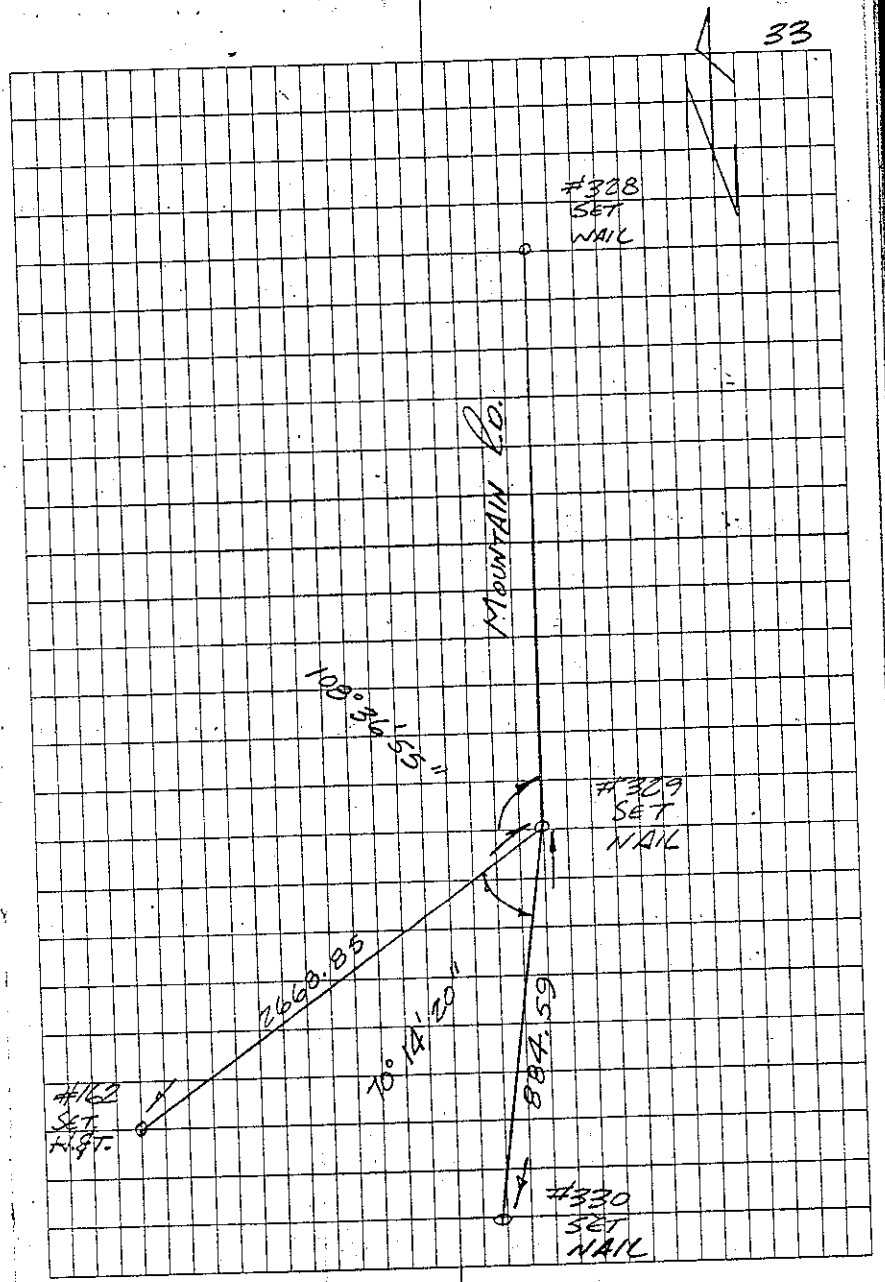
162	R	295	29	56	56
	D	115	29	56	

M ≠ 178° 51' 12"

328	R	44	06	44	43
	D	224	06	42	

M ≠ 70° 14' 20"

M ≠ 178° 51' 15"



↗ @ #329

SET NAIL

TO #330

D 90 10 58

SD 884.60

HD 884.59

M 269.62

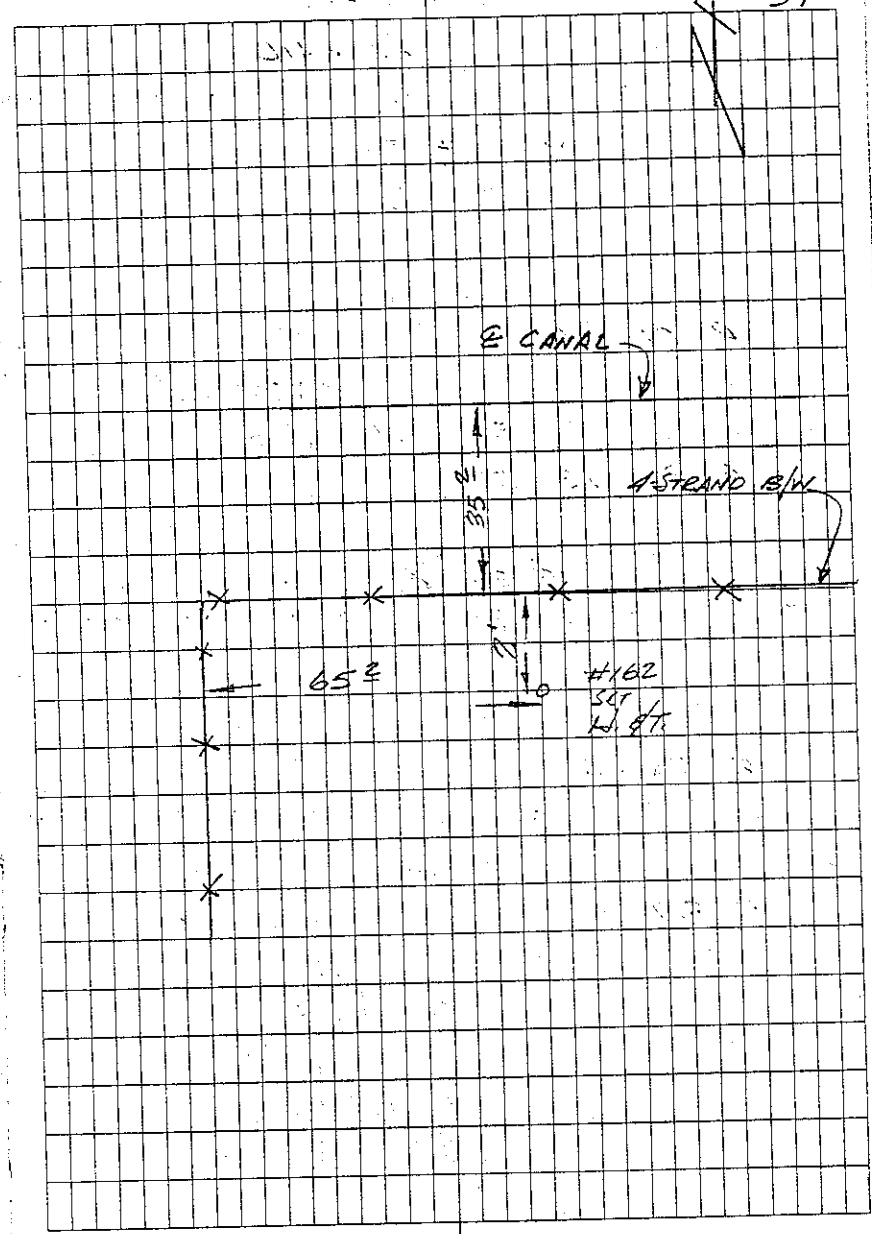
TO #162

D 90 09 18

SD 2668.86

HD 2668.85

M 813.47



π @ #330
SET NAIL

1)

331	D	0	00	34	30
	R	180	00	26	

M∡ 181° 26' 26"

329	D	181	27	00	56
	R	01	26	52	

M∡ 271° 45' 24"

161	D	271	45	56	54
	R	91	45	52	

2)

331	R	225	15	38	41
	D	45	15	44	

M∡ 181° 26' 37"

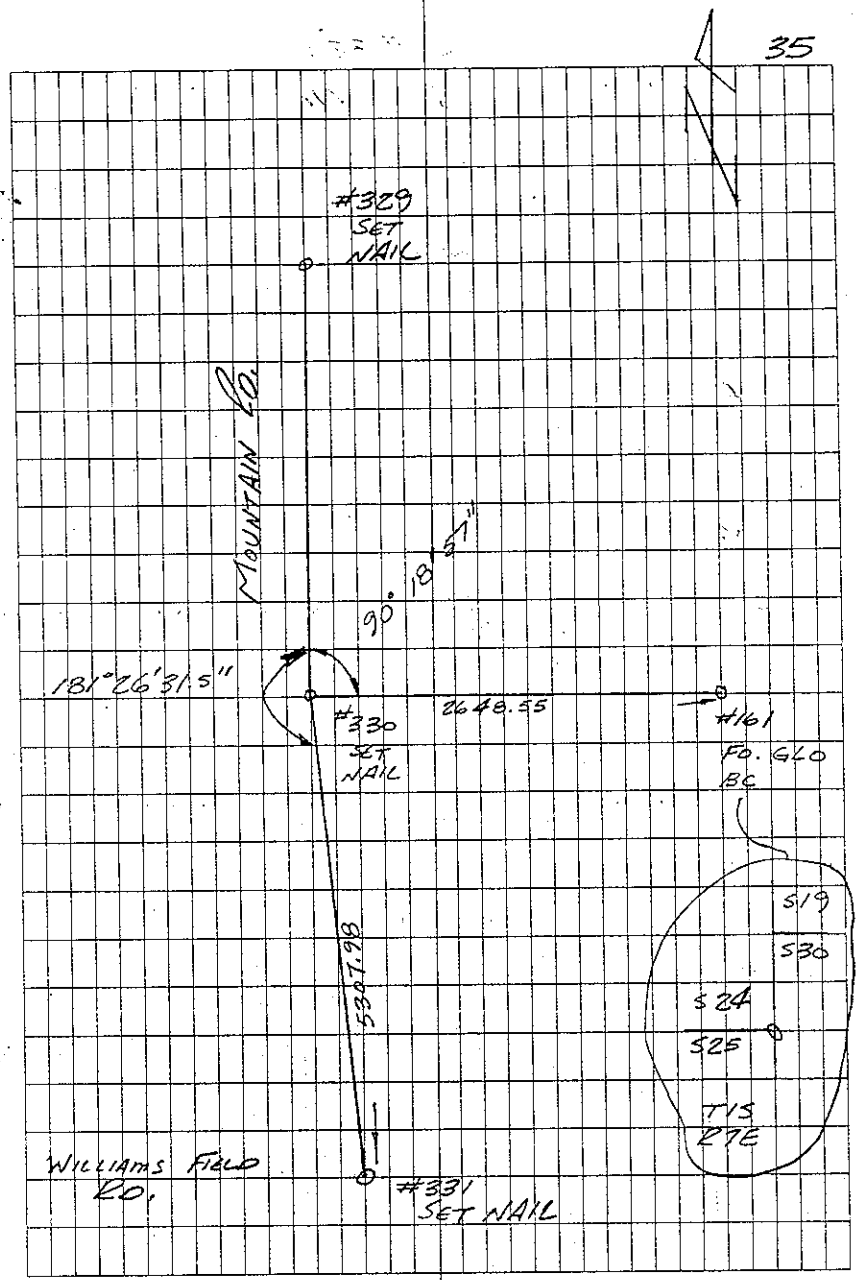
329	R	46	42	18	18
	D	226	42	18	

M∡ 271° 45' 33"

161	R	137	01	12	14
	D	317	01	16	

M∡ 181° 26' 31.5"

M∡ 271° 45' 28.5"



π @ #330
SET NAIL

℄ ∡ TO #161.

D 89 33 28

SD 2648.64
HD 2648.55

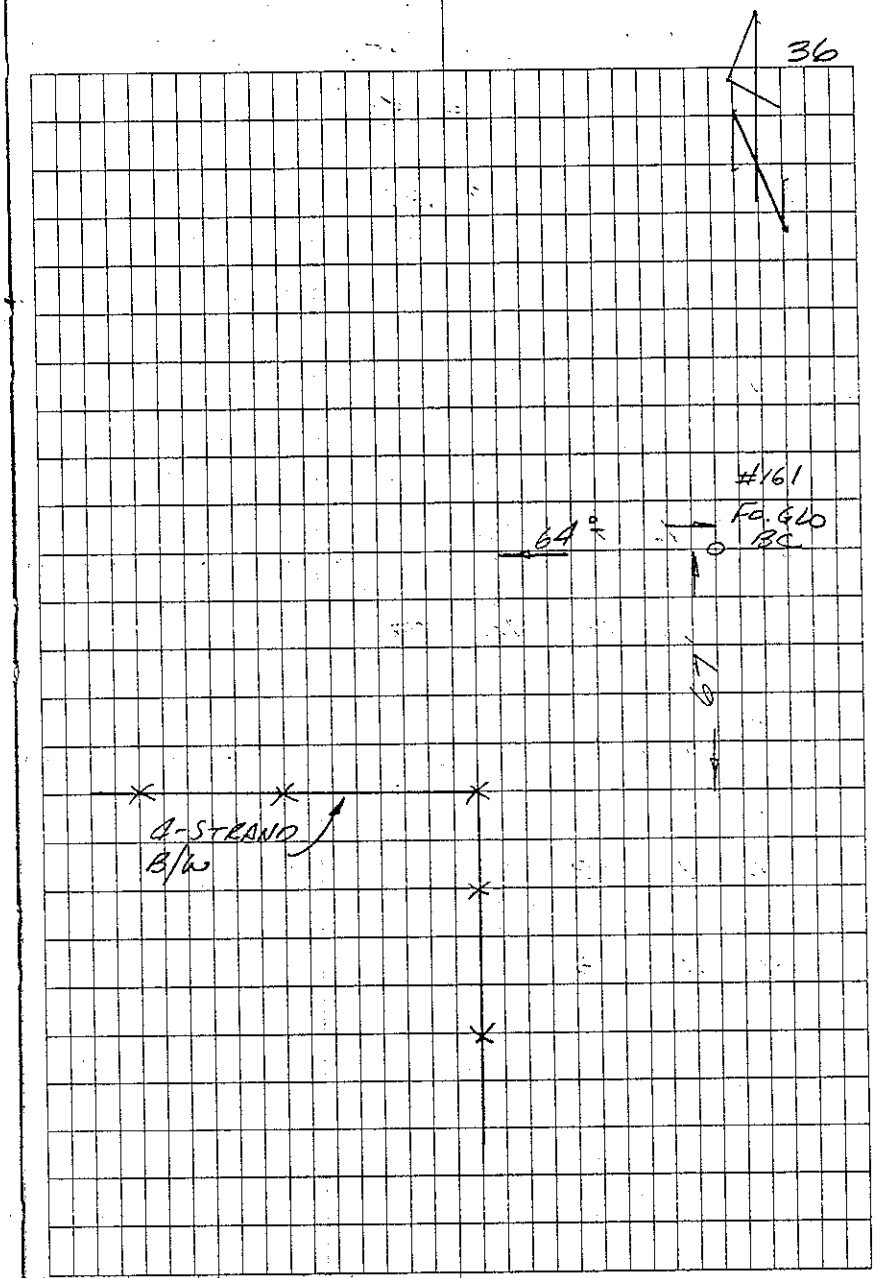
M 807.30

℄ ∡ TO #331

D 90 06 18

SD 5307.98
HD 5307.98

M 1617.88



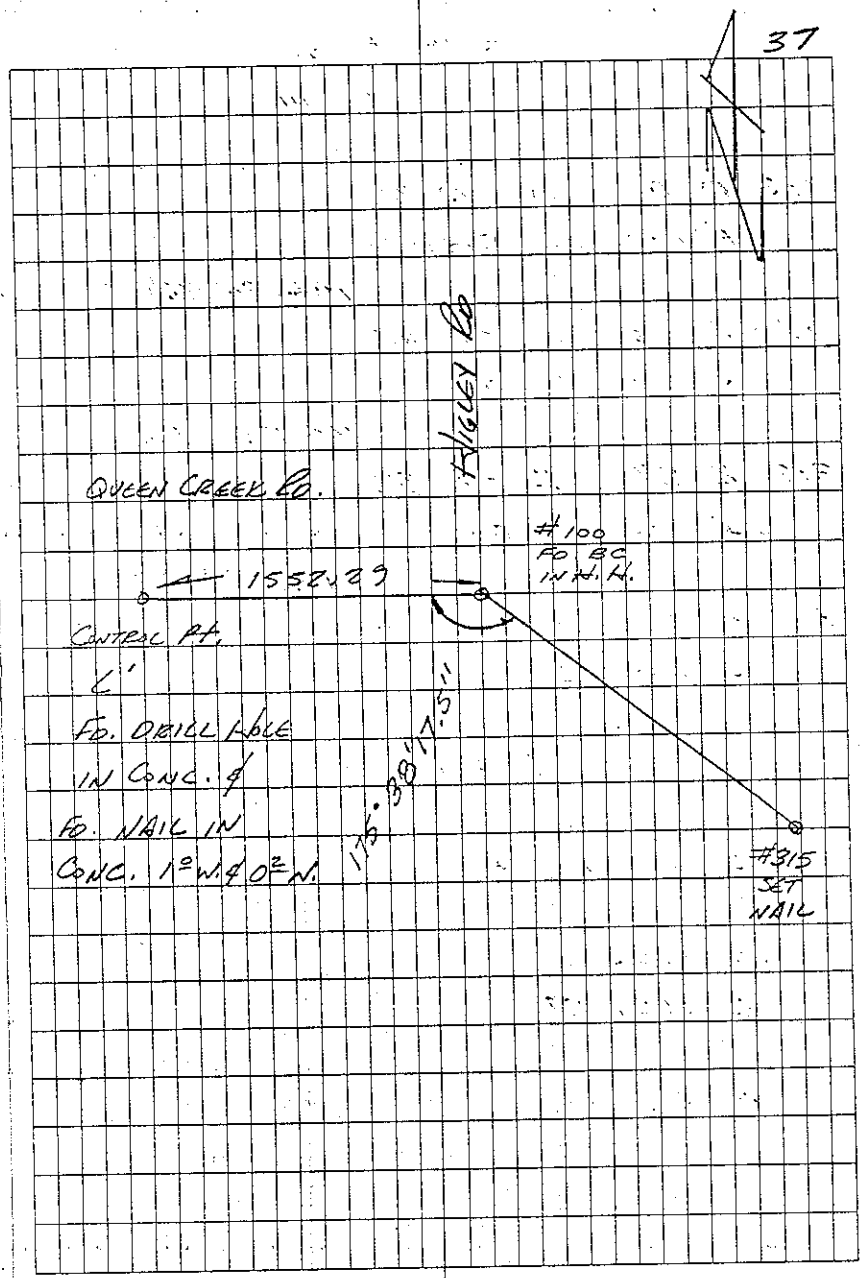
T @ #100

FD. BC IN H.H.

1)					
315	D	0	00	42	39
	R	180	00	36	
				M∠	175° 38' 18"
L'	D	175	38	58	57
	R	355	38	56	
				M∠	175° 38' 17.5"
2)					
315	R	225	15	30	32
	D	45	15	34	
				M∠	175° 38' 17"
L'	R	40	53	42	49
	D	220	53	56	

Z ∡ to #L'

	D	90	08	44	
	SD	1552.30			
	HD	1552.29			
	M	473.14			



⊼ @ #331
SET NAIL

1) 332 D 0 00 30 32
R 180-00-34
M∡ 120° 36' 12"

330 D 120-36-46 44
R 300-36-42
M∡ 120° 36' 16.5"

2) 332 R 225 15-42 39
D 45-15-36
M∡ 120° 36' 21"

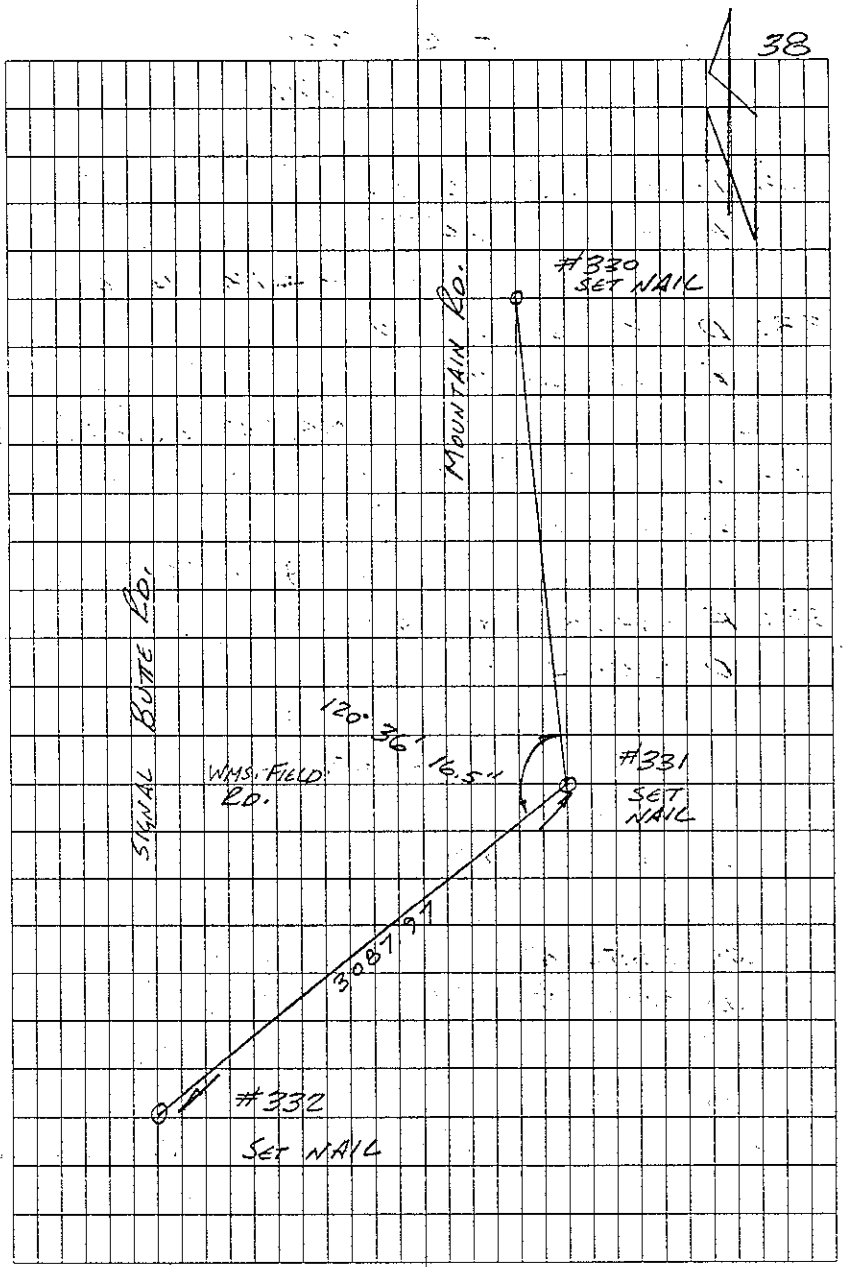
330 R 345-51-58 60
D 165-52-02

Z∡ to #332

D 90-07-38

SD 3088.00
HD 3087.97

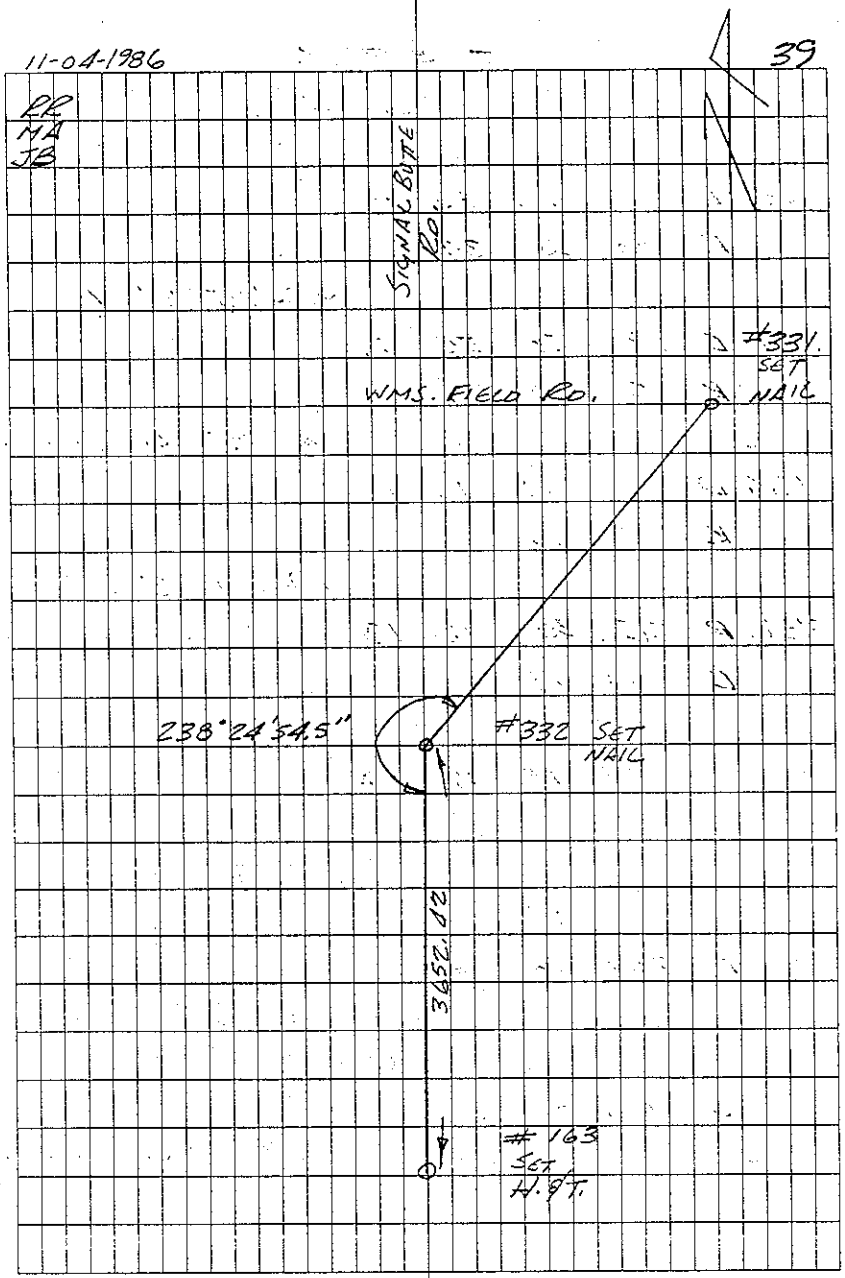
M 941.31



11-04-1986

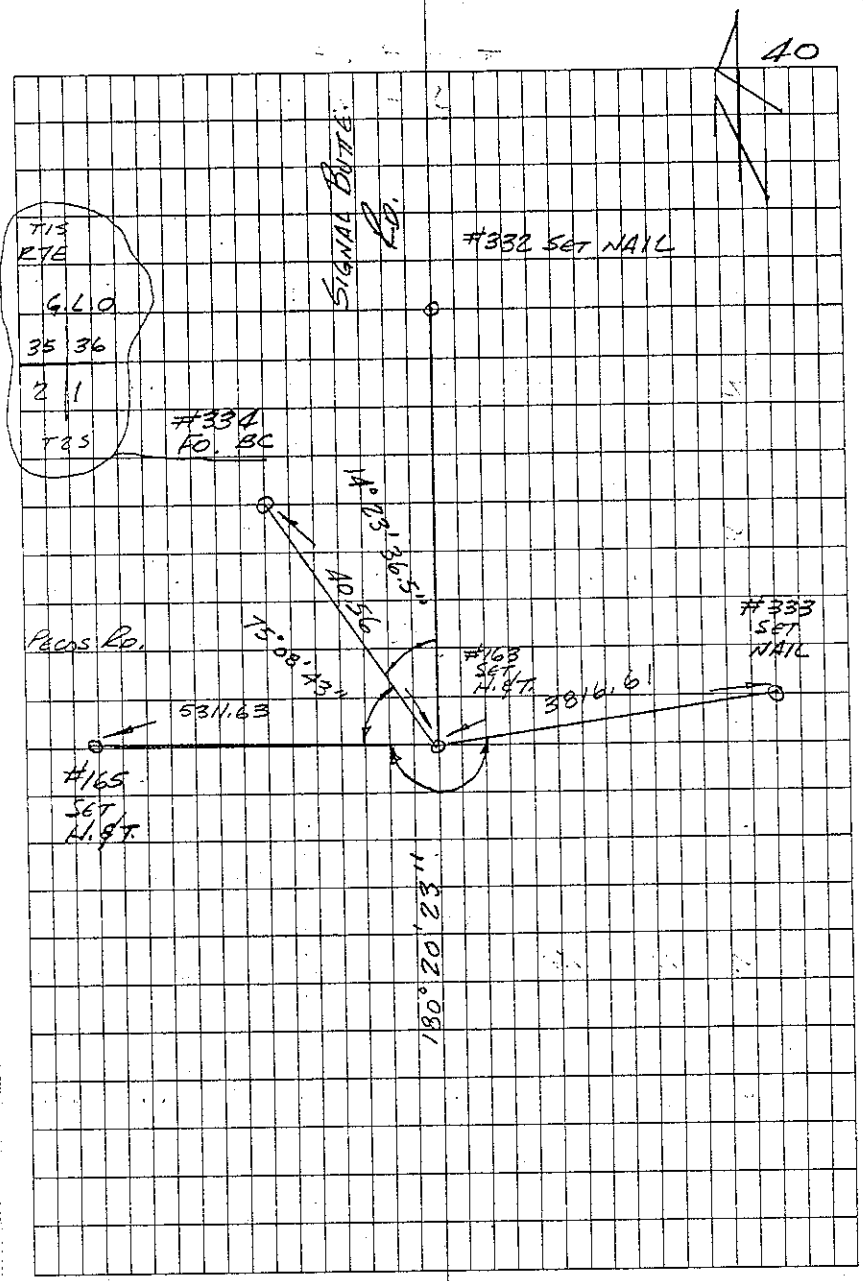
RR
MA
JB

					⊼ @ #332
					SET NAIL
1) 163	D	0	00	30	27
	R	180	00	24	
					M∡ 238°24'45"
331	D	238	25	12	12
	R	58	25	12	
					M∡ 238°24'54.5"
2) 163	R	225	15	42	44
	D	45	15	46	
					M∡ 238°25'04"
331	R	103	40	48	49
	D	283	40	50	
					Z∡ to #163
	D	90	01	48	
	SO	3652.42			
	HD	3652.42			
	M	1113.26			



T @ #163
SET H.&T.

1) 333	D	0	00	36	35
	R	180	00	34	
				M∠	180° 20' 12"
165	D	180	20	50	47
	R	0	20	44	
				M∠	255° 29' 06"
334	D	255	29	40	41
	R	75	29	42	
				M∠	269° 52' 38"
332	D	269	53	16	13
	R	89	53	10	
3) 333	R	225	15	42	45
	O	45	15	48	
				M∠	180° 20' 34"
165	R	45	36	18	19
	O	225	36	20	
				M∠	269° 52' 47"
332	R	135	08	26	32
	O	315	08	38	
			M∠		180° 20' 23"
			M∠		269° 52' 42.5



℄ @ #163
Set H.&T.

℄ to #165

D 90 10 36

SD 5311.64
HD 5311.63

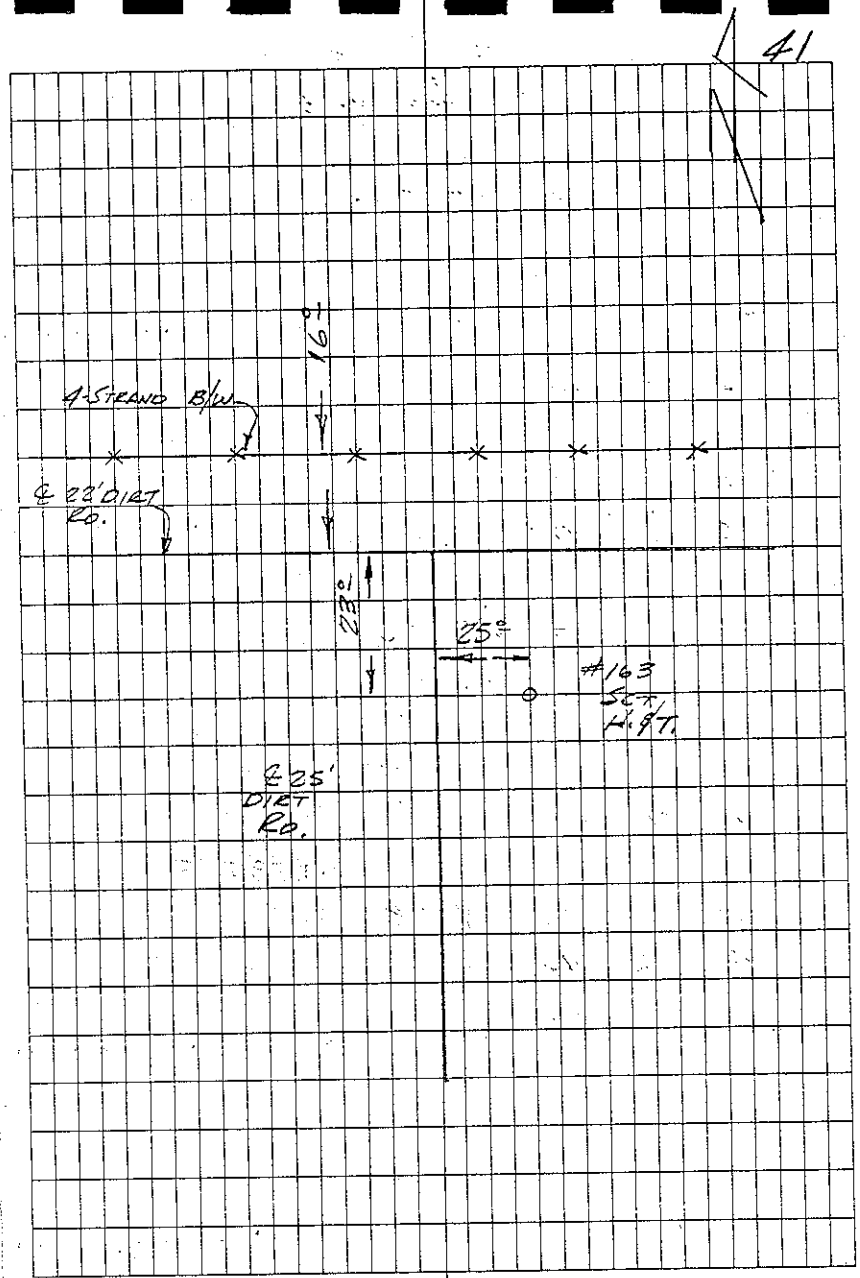
M 1619.00

℄ to #333

D 90 44 36

SD 3816.94
HD 3816.61

M 1163.40



X @ #333

SET NAIL

1)

335 D 0 00 30 56

R 180 00 26

M∡ 105° 44' 54"

163 D 105 45 52 50

R 285 45 48

M∡ 285° 30' 17"

164 D 285 31 16 13

R 105 31 10

2)

335 R 225 15 42 36

D 45 15 30

M∡ 105° 45' 21"

163 R 331 00 54 57

O 151 01 00

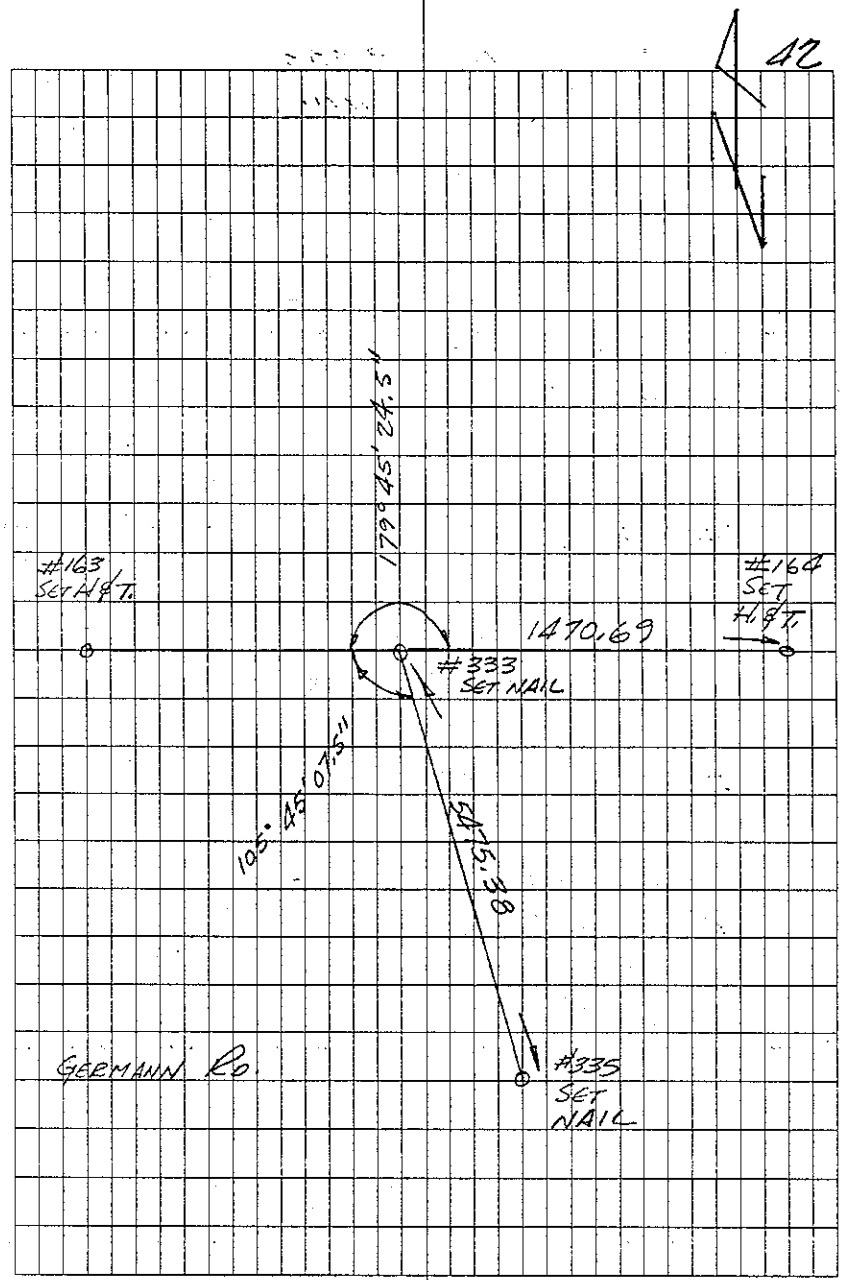
M∡ 285° 30' 47"

164 R 150 46 24 23

O 330 46 22

M∡ 105° 45' 07.5"

M∡ 285° 30' 32"



T @ #333
SET NAIL

Z to #164

D 89 32 28

SD 1470.74
HD 1470.69

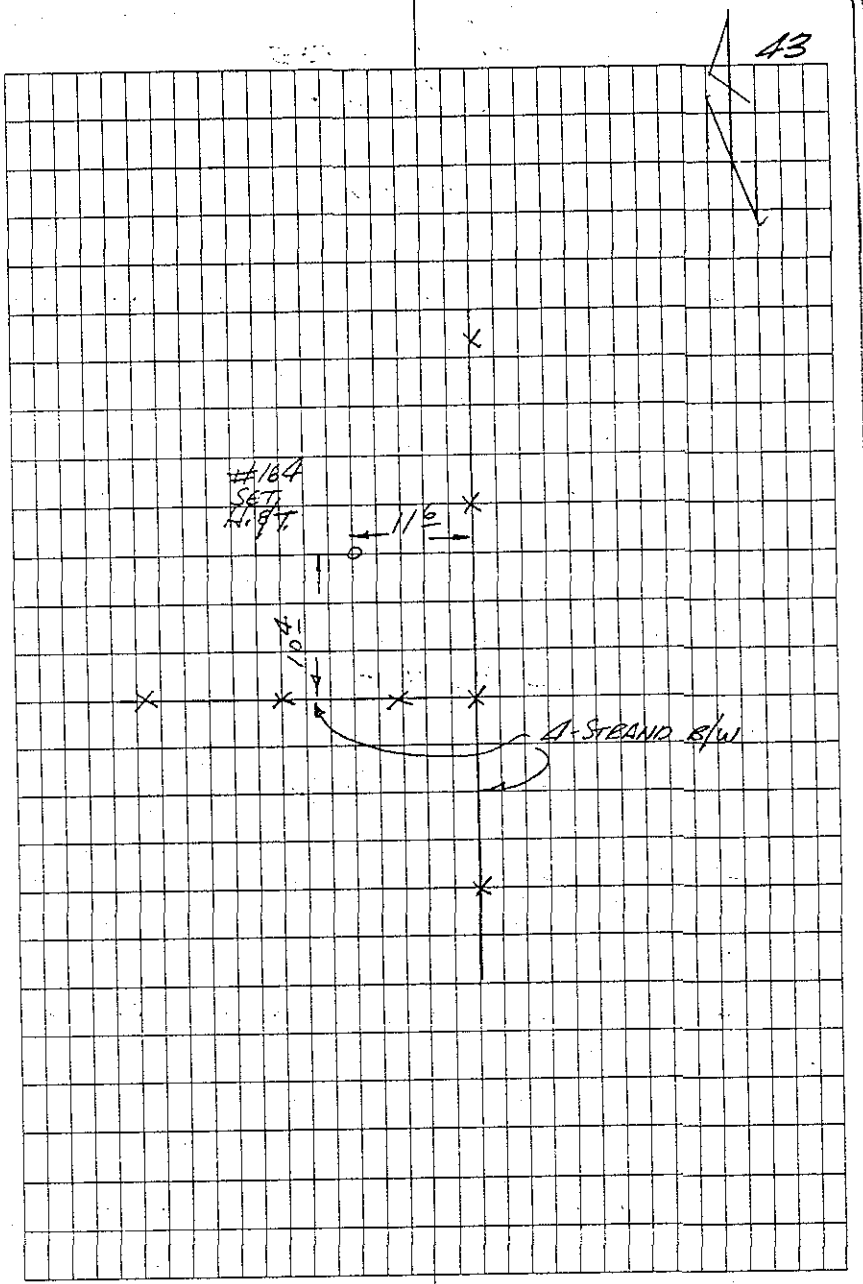
M 448.28

Z to #335

D 89 56 28

SD 5475.39
HD 5475.38

M 1668.90



π @ #335
SET NAIL

1)
336 D 0 00 42 37
R 180 00 32
M∡ 163°56'21"

333 D 163 56 56 58
R 343 57 00
M∡ 163°56'17"

2)
336 R 225 15 30 34
D 45 15 38
M∡ 163°56'13"

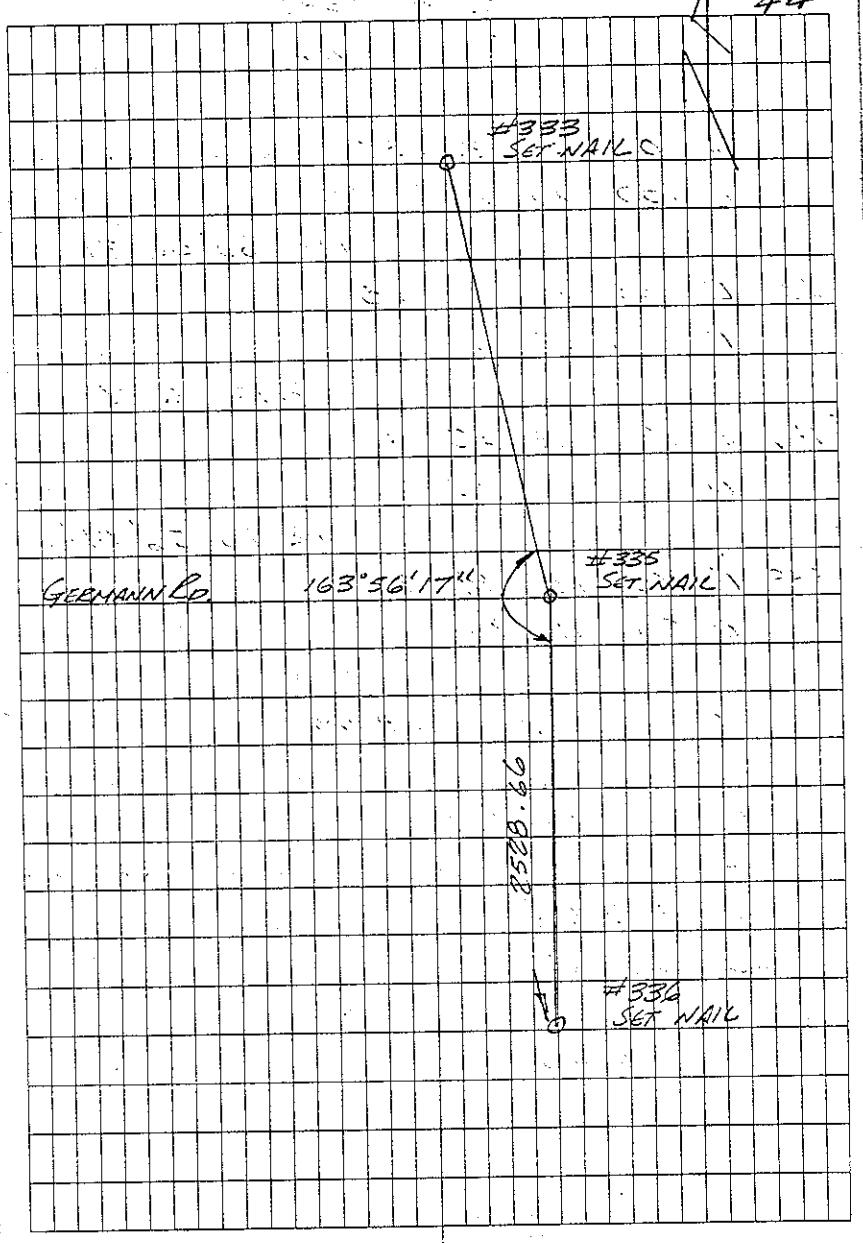
333 R 29 11 48 47
D 209 11 46

Z∡ TO #336

D 90 00 16

SD 2528.66
HD 2528.66

M 770.74



T @ #336
SET NAIL

119 D 0 00 36 30
R 180 00 24
M ∠ 180° 56' 35"

335 D 180 57 10 05
R 0 57 00
M ∠ 180° 56' 38"

119 R 225 15 42 49
D 45 15 56
M ∠ 180° 56' 41"

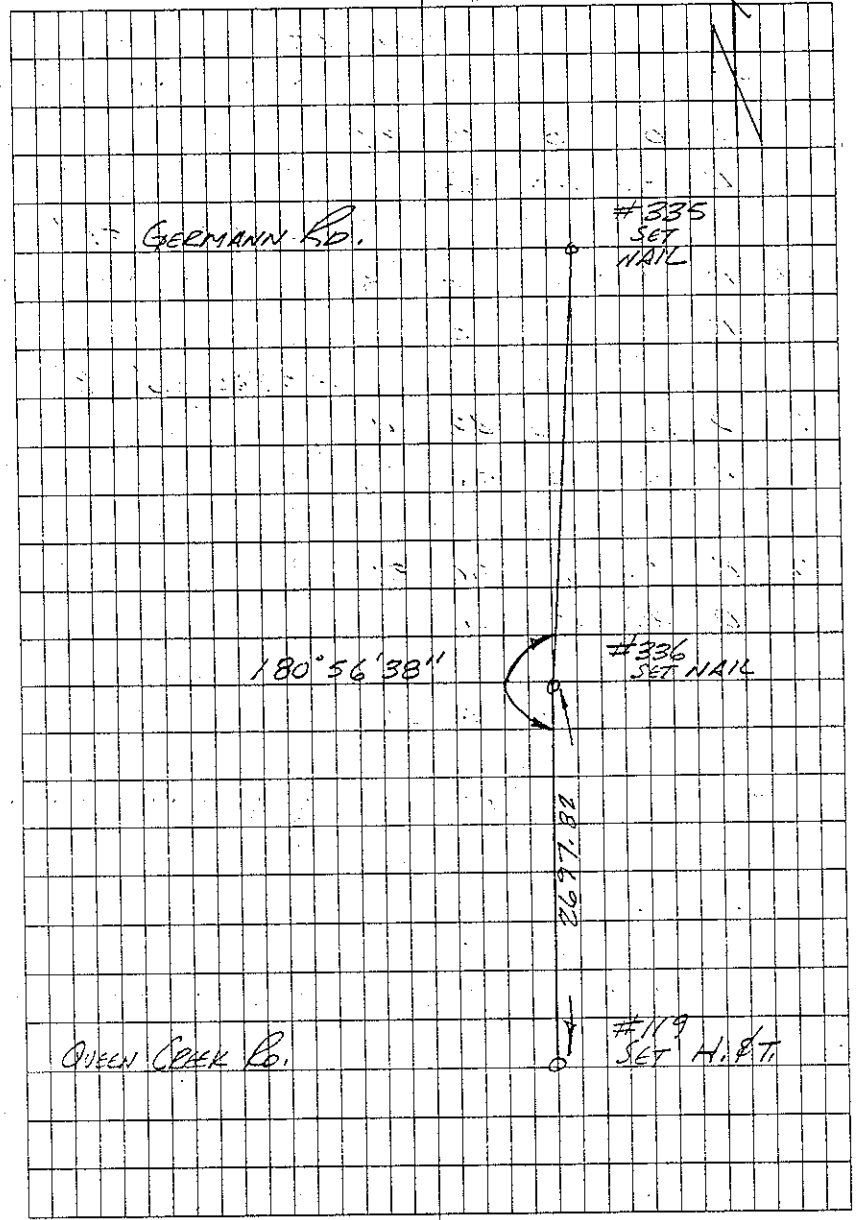
335 R 46 12 24 30
D 226 12 36

Z ∠ to #119

D 89 53 42

SD 2697.82
HD 2697.82

M 822.30



K @ #119
Set H. & T.

1)
120 D 0 00 34 32
R 180 00 30
M 89° 15' 21"

336 D 89 15 54 53
R 269 15 52
M 360° 00' 02"

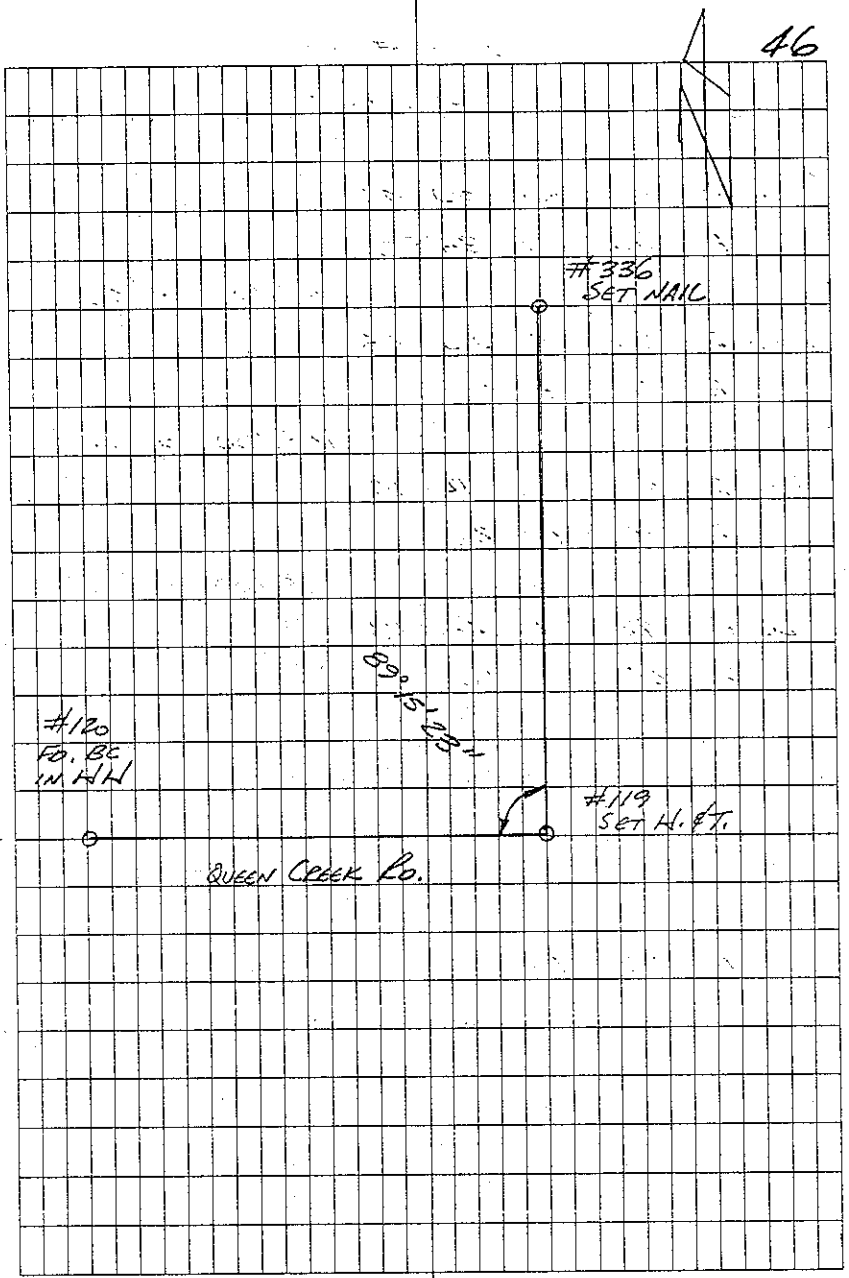
120 D 0 00 38 34
R 180 00 30

2) 120 R 225 15 30 31
O 45 15 32
M 89° 15' 25"

336 R 314 30 54 56
O 134 30 58
M 360° 00' 02"

120 R 225 15 34 33
O 45 15 32

M 89° 15' 23"



x @ #165

SET H. & T.

1) 163 D 0 00 30 32

R 180 00 34

M ∢ 180° 53' 32"

166 D 180 54 02 04

R 0 54 06

M ∢ 180° 53' 35"

2) 163 R 225 15 42 35

D 45 15 28

M ∢ 180° 53' 38"

166 R 46 09 14 13

D 226 09 12

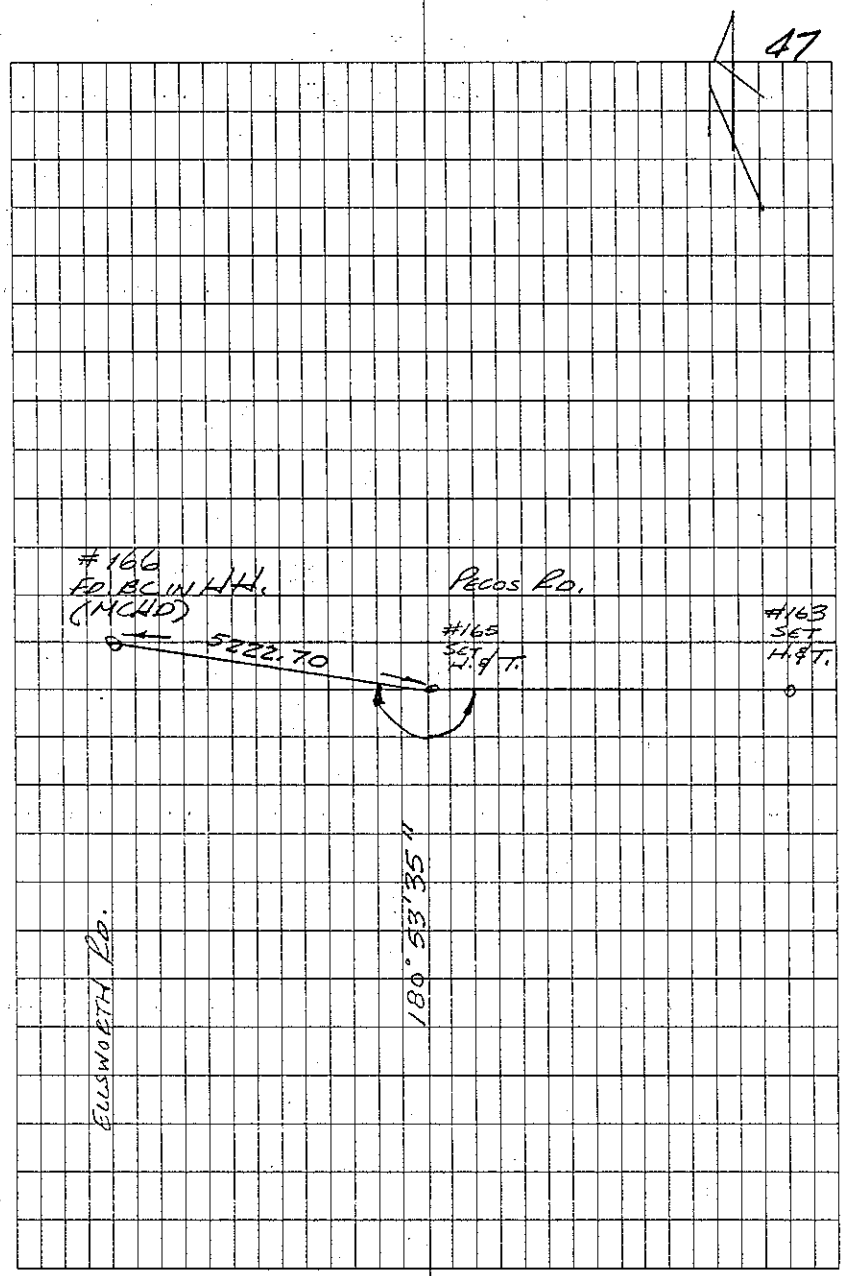
∢ TO #166

D 90 10 24

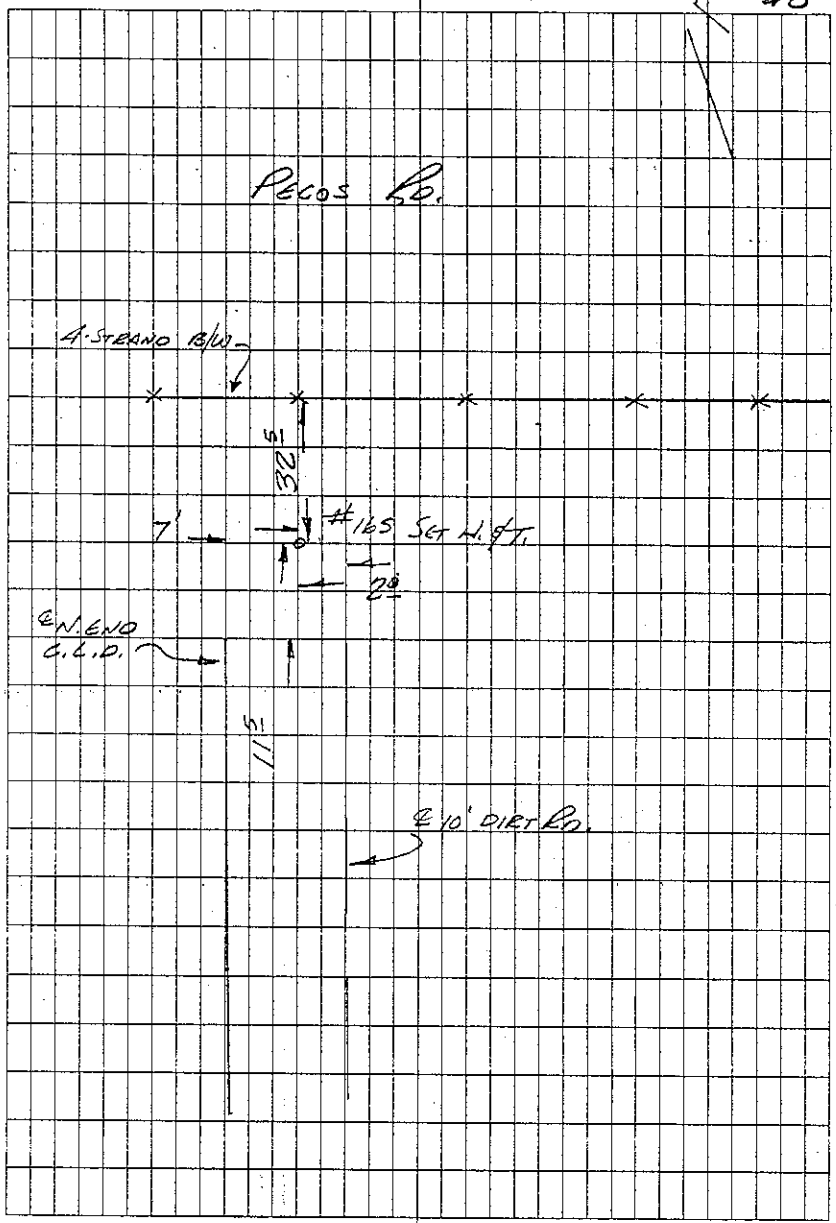
SD 5222.71

HD 5222.70

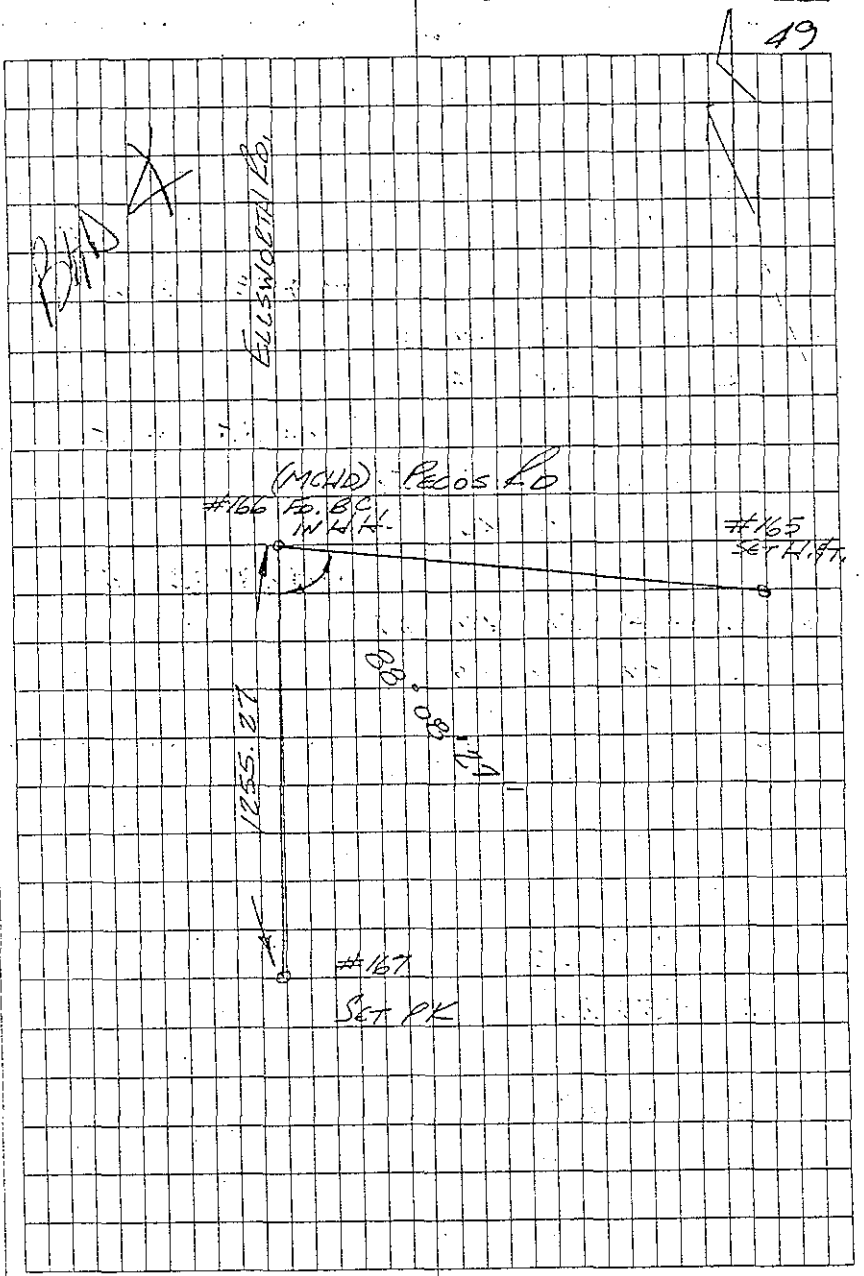
M 1591.89



T @ #165
Set H.P.T.



			T @ #166			
			Fd. BC IN HH.			
1)						
165	D	0	00	36	35	
	R	180	00	34		
				M = 88°08'24"		
167	D	88	09	00	59	
	R	268	08	58		
				M = 88°08'27"		
2) 165	R	225	15	32	31	
	D	45	15	30		
				M = 88°08'32"		
167	R	313	24	08	63	
	D	133	23	58		
			EA TO #167			
	D	89	54	44		
	SD	1255.27				
	HD	1255.27				
	M	382.61				



π @ #167

SET PK

1)

168	D	0	00	30	32
	R	180	00	34	

M∡ 88° 52' 22"

166	D	88	52	54	54
	R	268	52	54	

M∡ 88° 52' 13"

2)

168	R	225	15	36	38
	D	45	15	40	

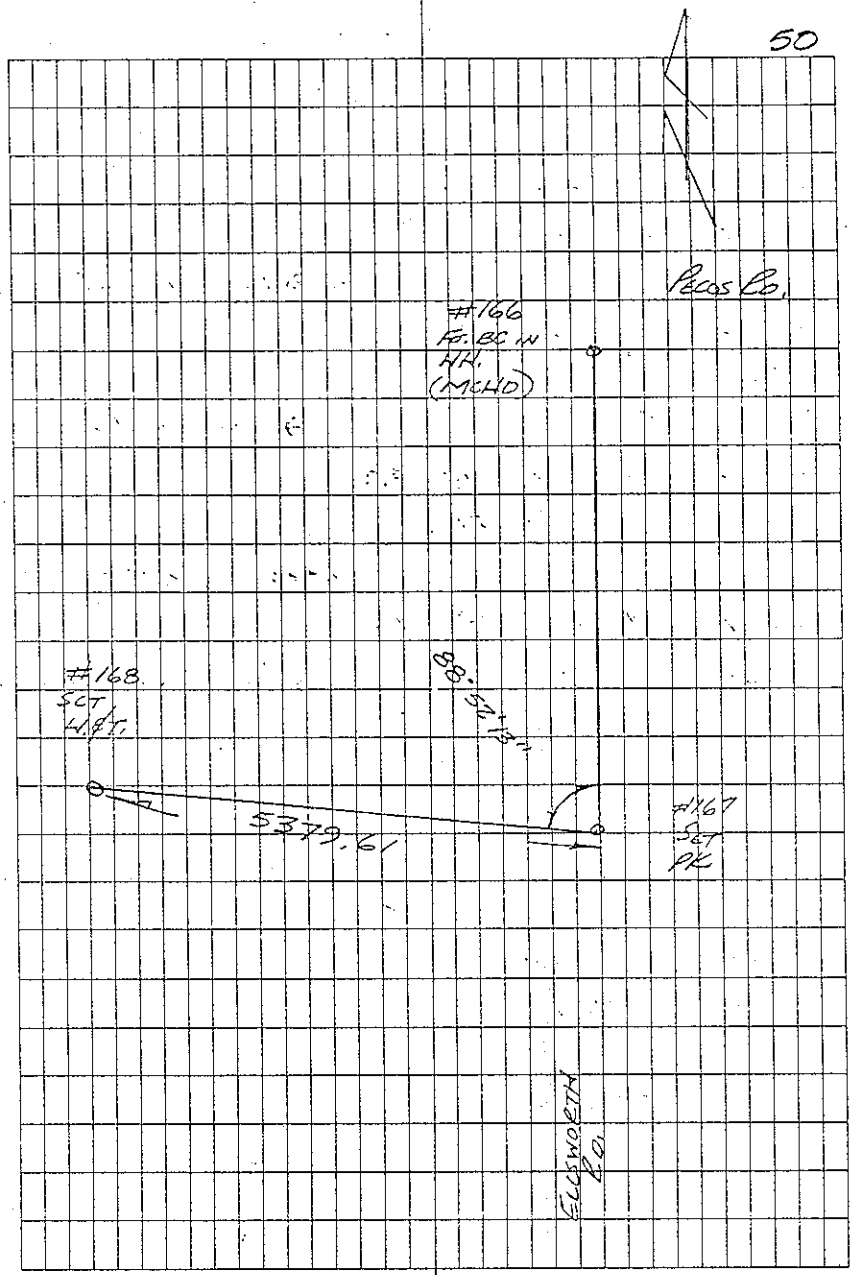
M∡ 88° 52' 04"

166	R	314	07	40	42
	D	134	07	44	

Z∡ TO #168

D	90	10	18

SD	5379.62
HD	5379.61
M	1639.72



∠ @ #168
SET H.P.T.

D	167	D	0	00	30 33
		R	180	00	36

M∠ 178° 48' 36"

	169	D	178	49	18 09
		R	358	49	00

M∠ 178° 48' 38.5"

2	167	R	225	15	40 38
		O	45	15	36

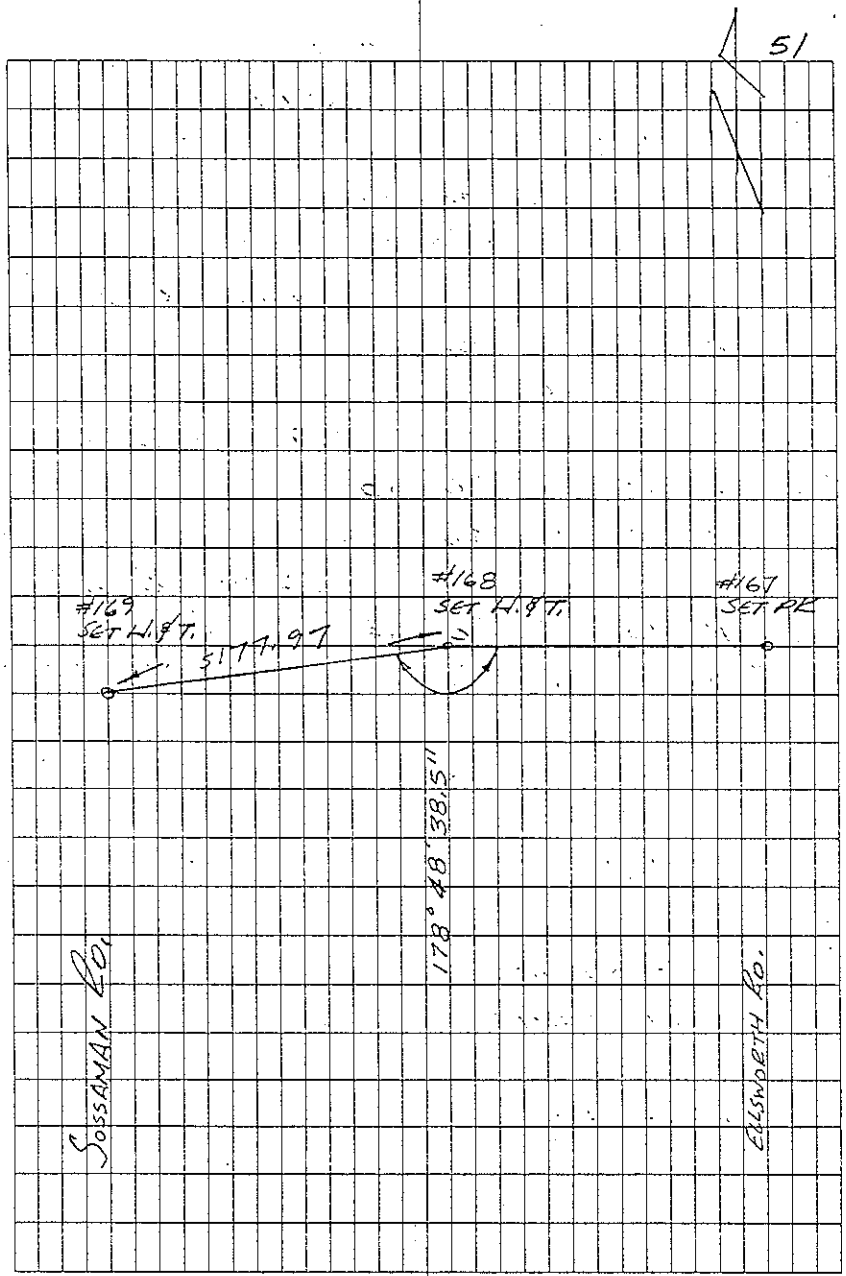
M∠ 178° 48' 41"

	169	R	44	04	18 19
		O	224	04	20

∠ TO #169

D	90	12	42	

SD	5178.01
HD	5177.97
M	1578.26



T @ #169
SET H.I. & T.

1) 168 D 0 00 36 38
R 180 00 40
M∠ 180° 02' 18"

170 D 180 02 56 56
R 0 02 56
M∠ 180° 02' 19.5"

2) 168 R 225 15 30 33
D 45 15 36
M∠ 180° 02' 21"

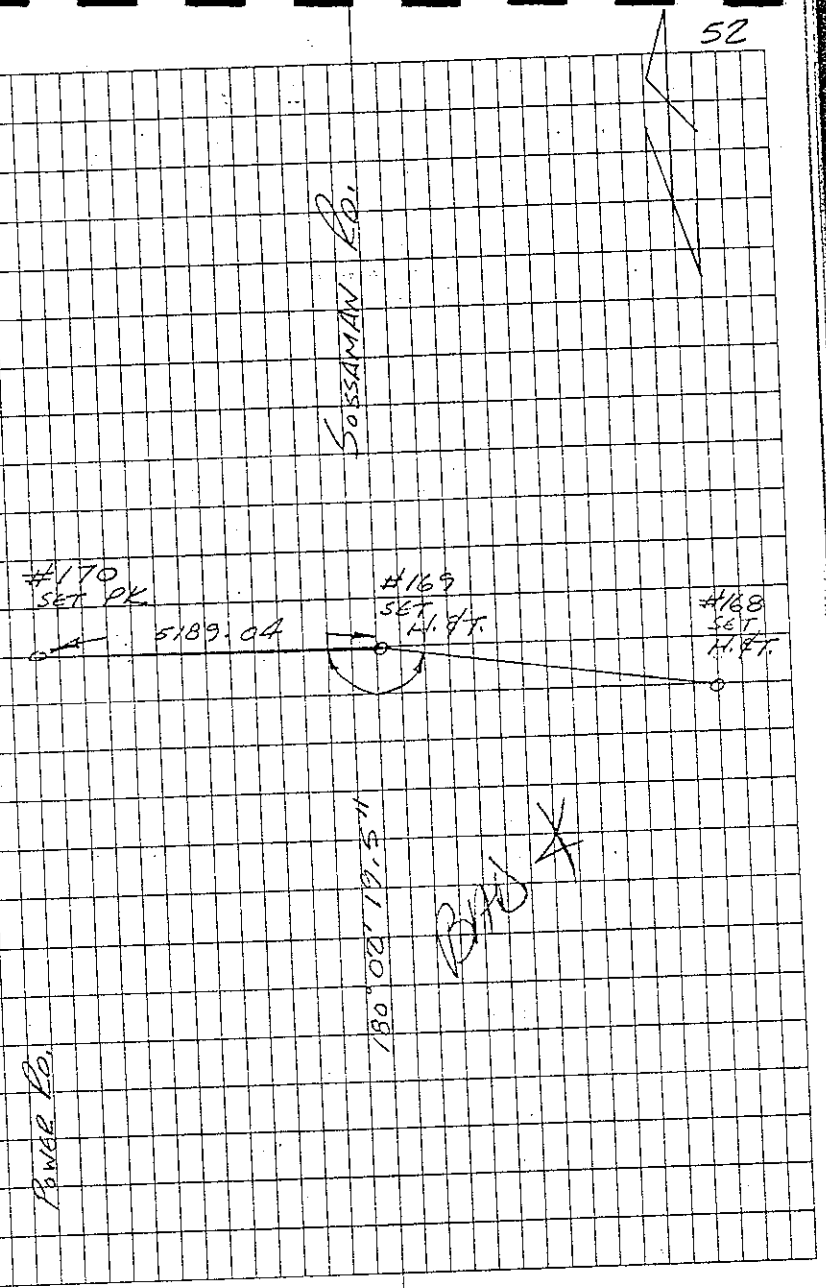
170 R 45 17 52 54
D 225 17 56

Z∠ to #170

D 90 10 24

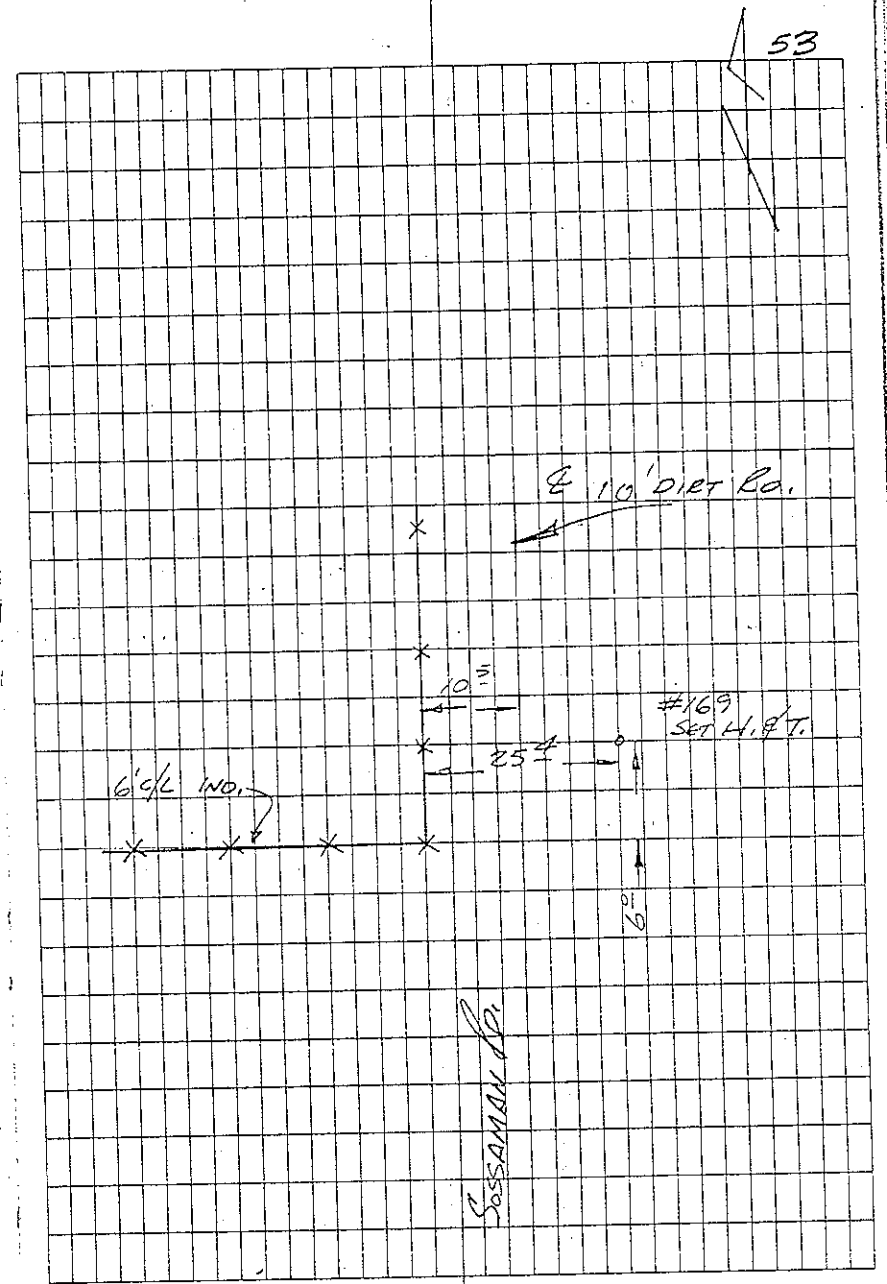
SO 5189.06
HO 5189.04

M 1581.63



x @ #169
Set H. & T.

53



π @ #170
SET

1) 169 D 0 00 42 35
R 180 00 28
M∠ 267° 37' 42"

171 D 267 38 20 17
R 87 38 14
M∠ 267° 37' 51"

2) 169 R 225 15 30 31
D 45 15 32
M∠ 267° 38' 00"

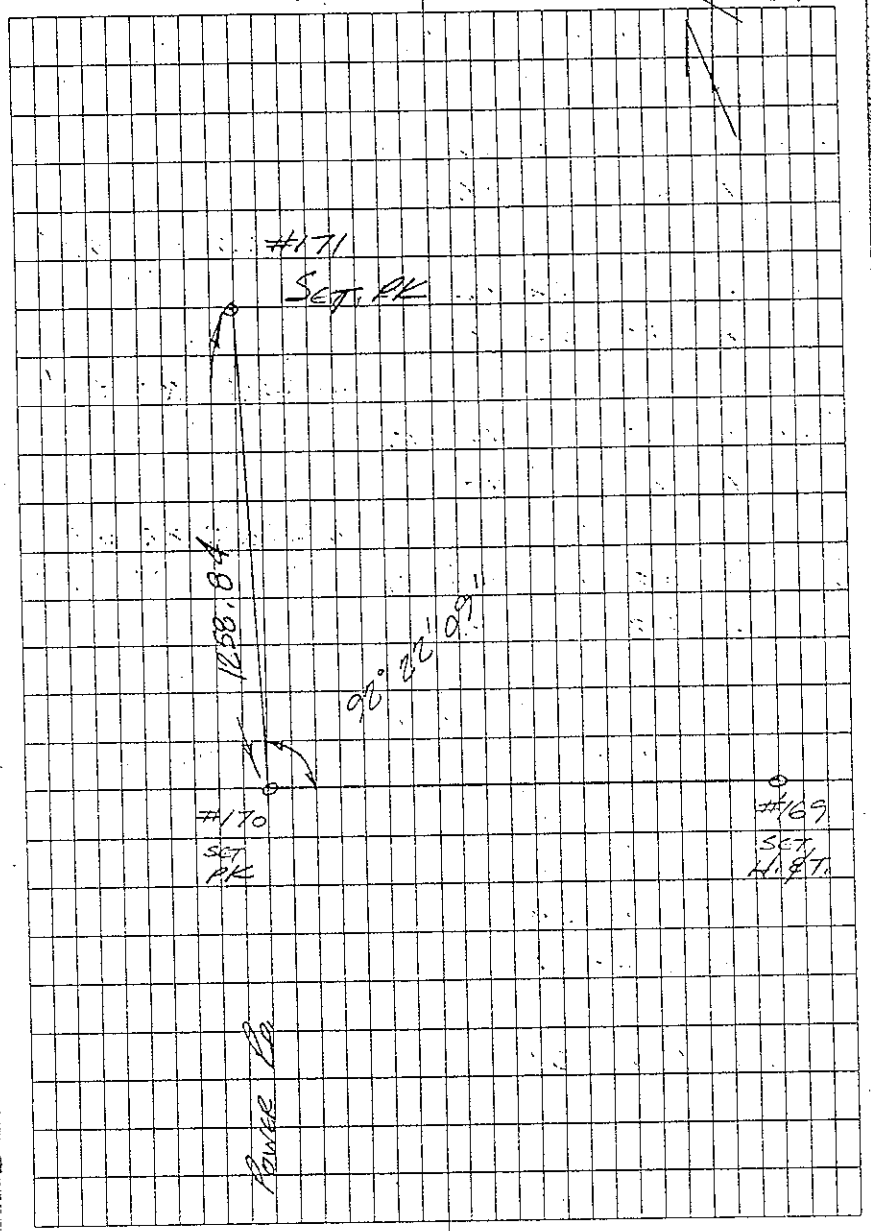
171 R 132 53 28 31
D 312 53 34

Z ∠ TO #171

D 90 08 18

SD 1258.88
HD 1258.84

M 383.68



I @ #171
SET PK

1)
151 D 0 00 36 34
R 180 00 32
M∠ 268° 26' 39"

170 D 268 26 12 13
R 88 26 14
M∠ 268° 26' 15.5"

2)
151 R 225 15 42 43
O 45 15 44
M∠ 268° 25' 52"

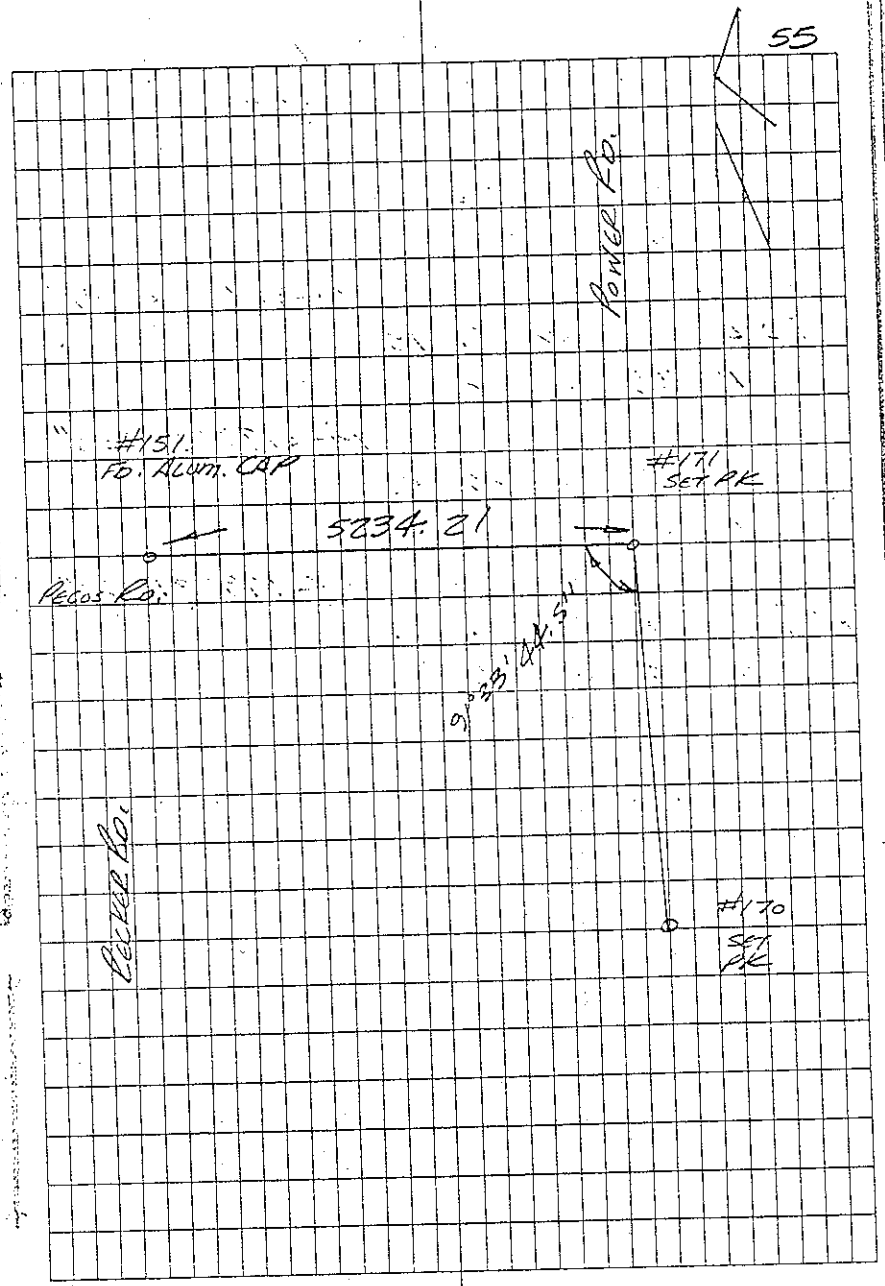
170 R 133 41 32 35
O 313 41 38

Z ∠ to #151

D 90 09 36

SD 5234.24
WD 5234.21

M 1595.39



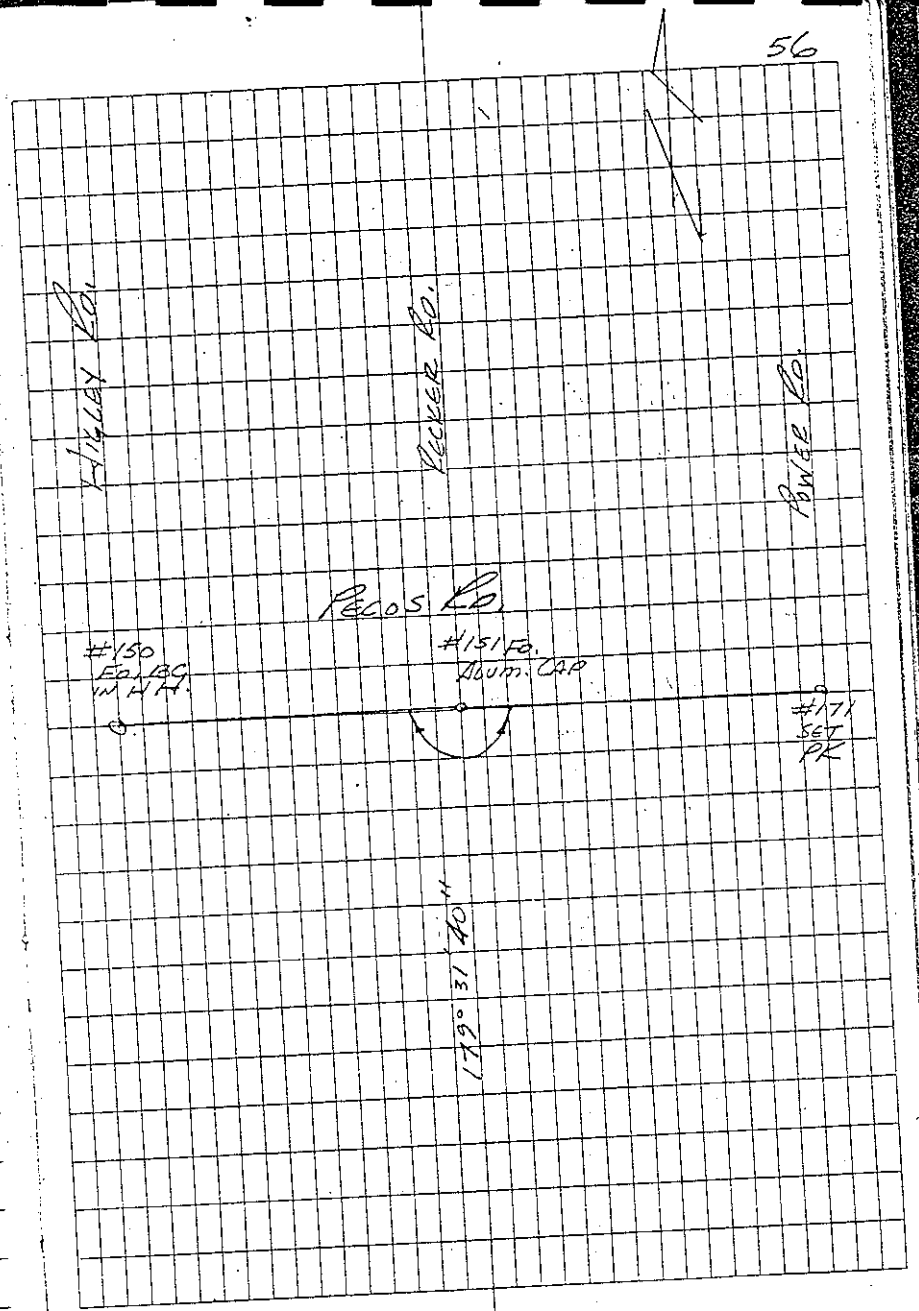
x @ #151
Fd. Alum Cap

1) 171 D 0 00 30 34
E 180 00 38
M∠ 179° 31' 41"

150 D 179 32 24 15
R 359 32 06
M∠ 179° 31' 40"

2) 171 E 225 15 42 50
D 45 15 58
M∠ 179° 31' 39"

150 E 44 47 22 29
D 224 47 36



TR 156 B/S 323

Fd. P.K. Nail

0-00-00 52'

DIST ?

1) D 0-00-30 33

R 180-00-36

m ∡ 89-06-44

D 89 07 16 17

R 269-07-18

m ∡ 89-06-42

2) R 225-15-42 44

D 45-15-46

m ∡ 89-06-40

R 314 22 26 24

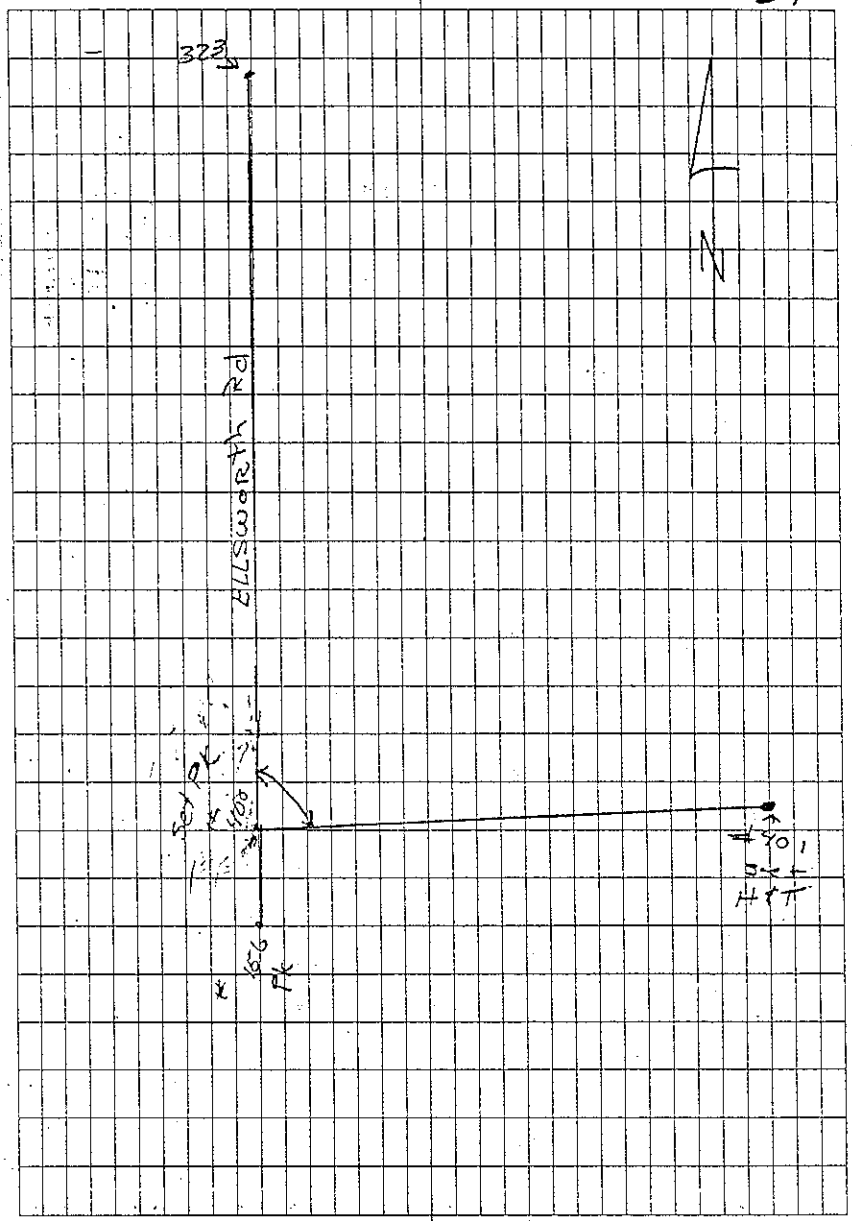
D 134-22-22

D 89 35 51

SD 4627.30

HD 4627.25

m. 1410.40



check ✗

12-4-86

B. Johnsen
T. martin
T. Kendall

π @ #169
H&T

#168 D 0-00-30 32
R 180-00-34
M∡ 181°-06'-02"

#170 D 181-06-36 68-34
R 1-06-32

EDM #169 To #168

Z∡ 89°-45'-54"
FT 5178.08
m 1578.29
HD 5178.05

EDM #169 To #170

Z∡ 90°-08'-18"
FT 5189.12
m 1581.63
HD 5189.07

T @ #168

HE T

#167 D 0-00-30 62-31

R 180-00-32

MT 178°-48'-24"

#169 D 178-48-56 110-55

R 358-48-54

EDM #168 To #167

ZA 89°-44'-50"

FT 5379.80

m 1639.75

HP 5379.72

55
31
24

TA @ #170

PIC

#171 D 0-00-34 35

R 180-00-36

M ∠ 92°-22'-05"

#169 D 92-22-42 40

R 272-22-38

EDM #170 TO #171

Z ∠ 90°-10'-38"

FT 1258.82

M 383.68

HD 1258.80

π @ #167
PK

#166 D 0-00 -30 56-28
R 180-00 -26

M ∡ 271°-07'-25"

#168 D 271-07-52 106-53
R 91-07-54

FDM #167 to #166

Z ∡ 90°-06'-10"

FT 1255.35
m 382.62

HD 1255.33

53
28
25

T@ #166

BC IN H.H.

#165 D 0-00-30 66-33

Q 180-00-36

M ∡ 88°-27'-14"

#167 D 88-27-48 94-47

R 268-27-46

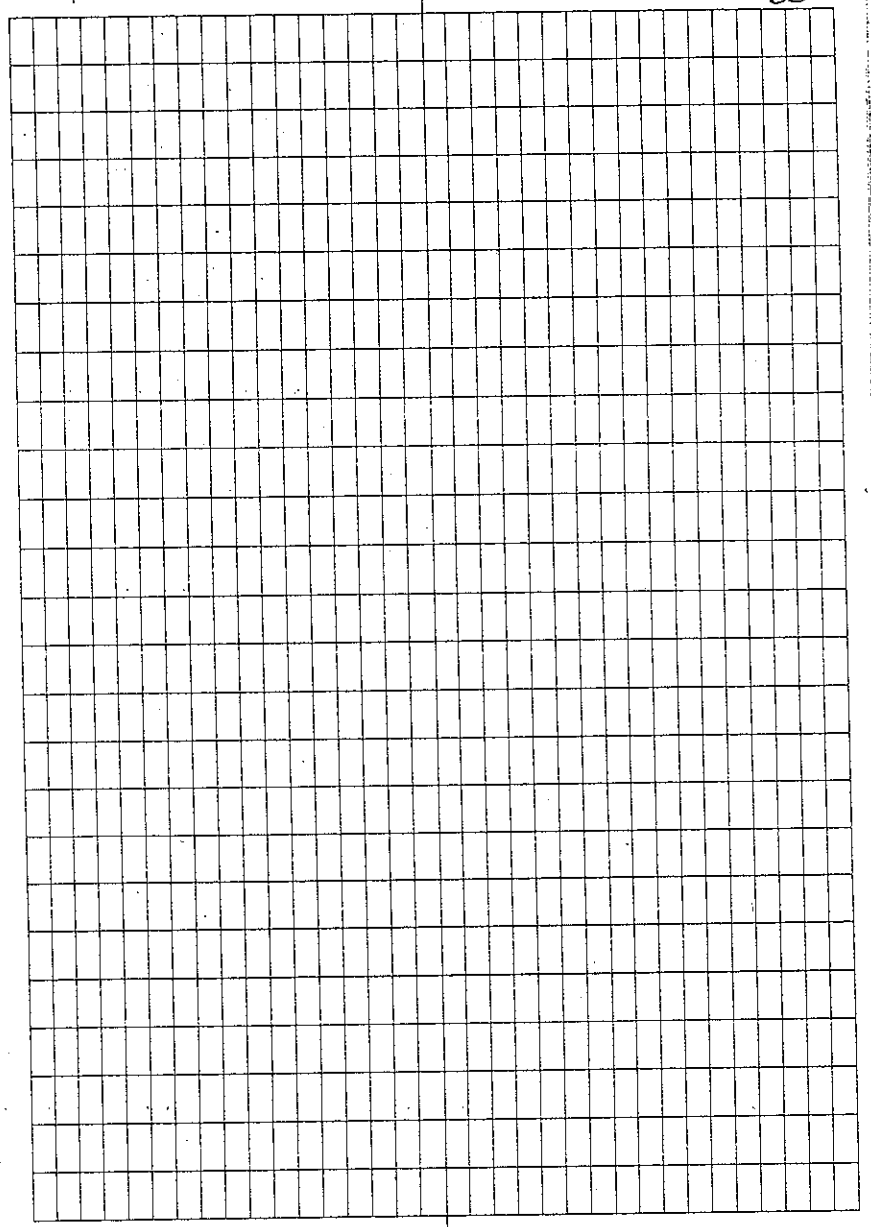
EDM #166 TO #165

Z ∡ 89°-43'-06"

ft 5222.92

m 1591.45

HD 5222.86



09-25-1986

HORIZ. & VERT. CONTROL TRAVERSE

SOUTH HALF

RICH &
HENDLEY
McDERMOTT

COOL
CLOUDY

π @ #101

Fd. 1" Pipe Flush

1)

100 D 0 00 38 55

R 180 01 12

M∠ 90° 35' 49"

101 D 90 36 32 44

R 270 36 56

2)

100 R 225 15 40 20

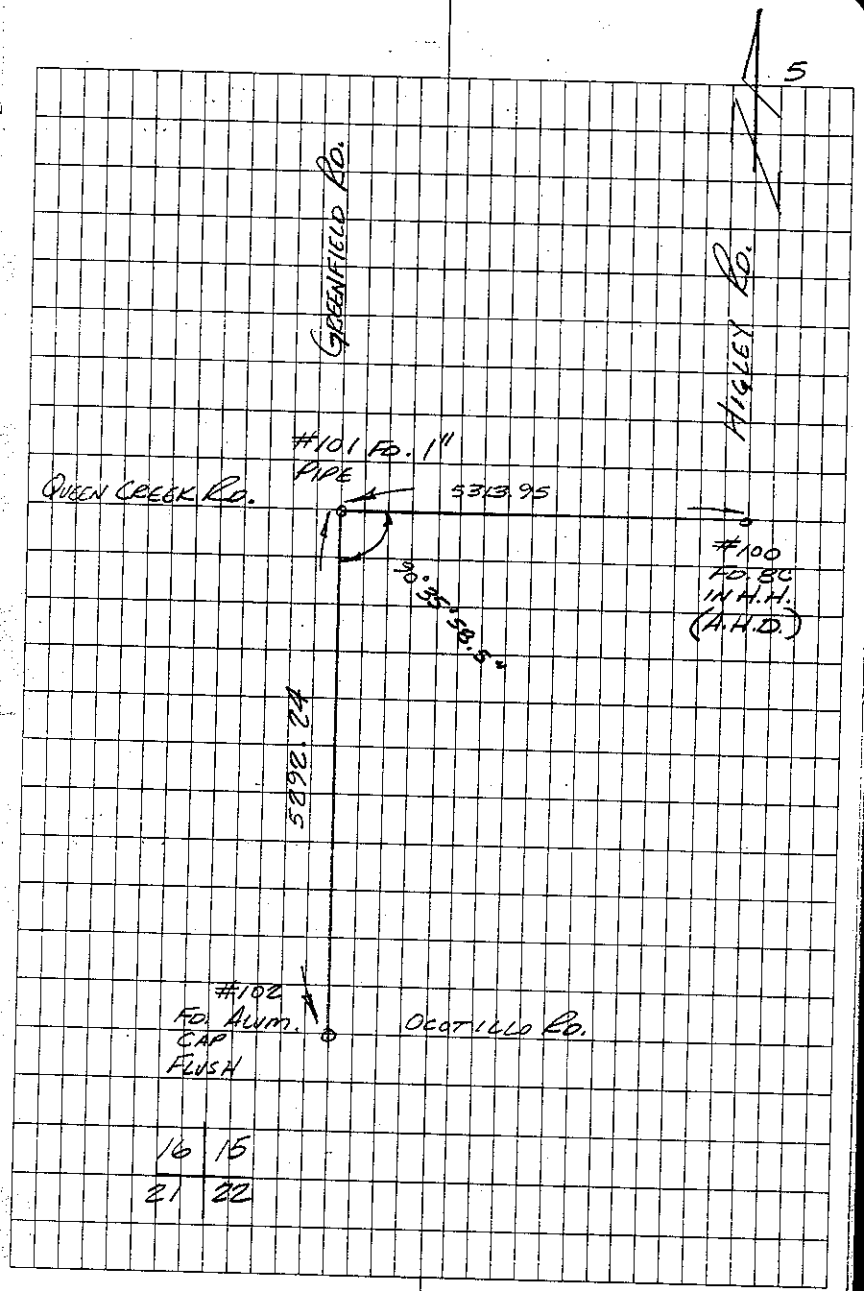
D 45 15 00

M∠ 90° 36' 08"

101 R 315 51 48 28

D 135 51 08

M∠ 90° 35' 58.5"



x @ #101

Fd. 1" Pipe Flush

Ex to #100

D 89 46 16

SD 5313.98

HD 5313.95

M 1619.71

Ex to #102

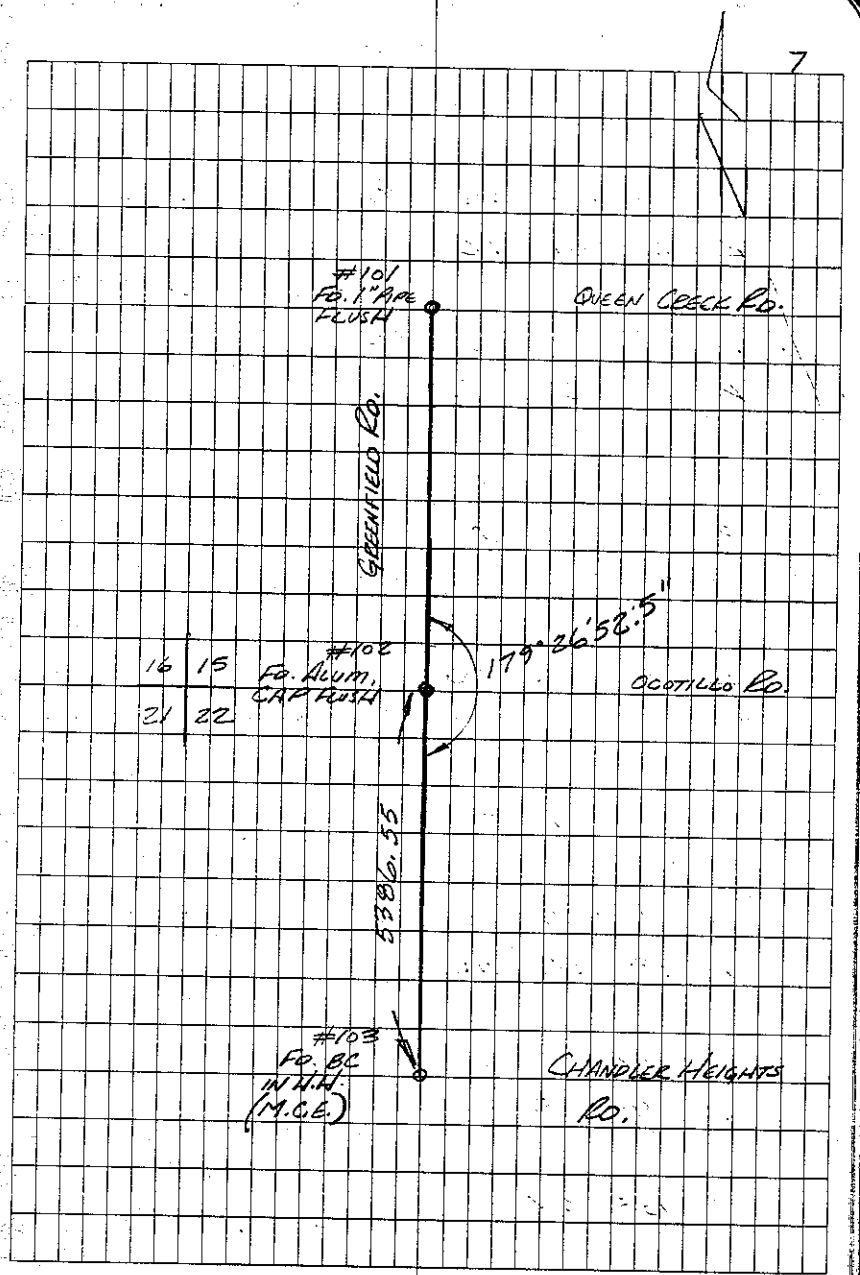
D 89 58 42

SD 5292.24

HD 5292.24

M 1613.08

			℄ @ #102		
			Fd. Alum. Cap Flush		
1)					
101	D	0	00	30	45
	R	180	01	00	
					M ∡ 179°26'47"
103	D	179	27	22	32
	R	359	27	42	
2)					
101	R	225	15	36	28
	D	45	15	20	
					M ∡ 179°26'58"
103	R	44	42	40	26
	D	224	42	12	
			M ∡	179°	26' 52.5"
			℄ to	#103	
	D	89	56	00	
	SD	5386.56			
	HD	5386.55			
	M	1641.82			



⊼ @ #103

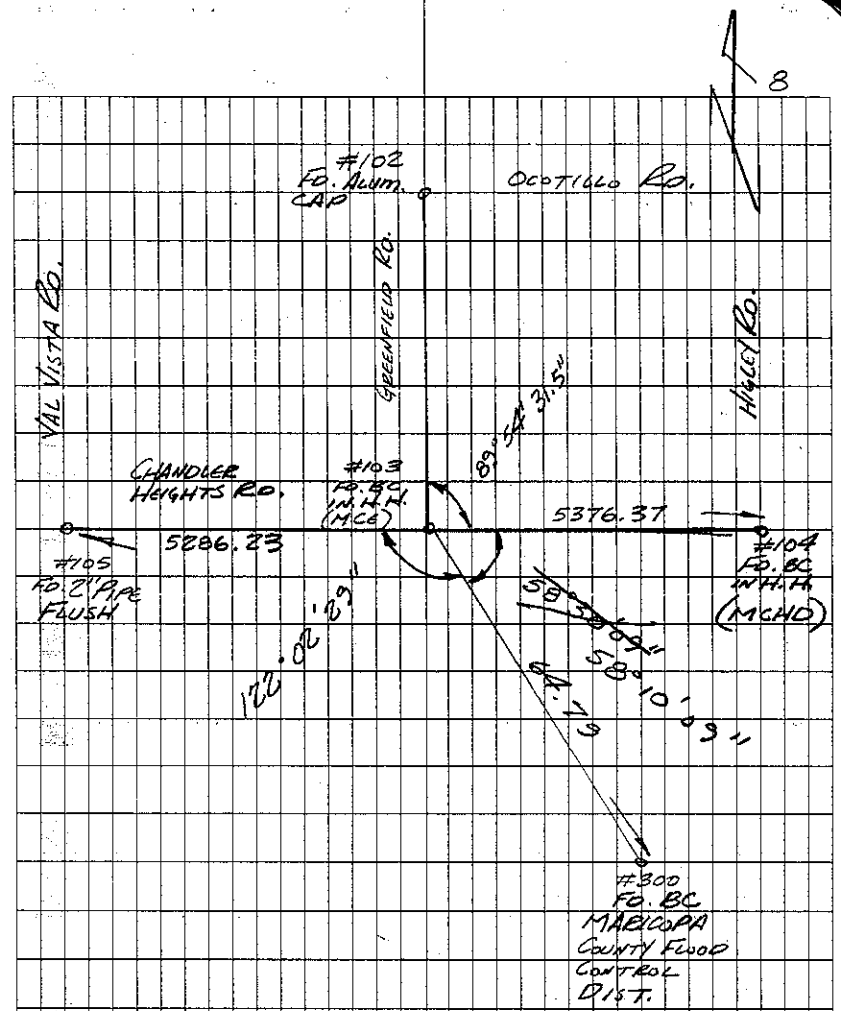
FO. BC IN H.H.

1)

102	D	0	00	38	55
	R	180	01	12	
					M∡89°54'28"
104	D	89	55	14	23
	R	269	55	32	
					M∡148°04'46"
300	D	148	05	30	41
	R	328	05	52	
					M∡270°07'17"
105	D	270	07	56	72
	R	90	08	28	

2)

102	R	225	15	30	18
	D	45	15	06	
					M∡89°54'35"
104	R	315	10	16	53
	D	135	09	30	
					M∡148°04'35"
300	R	13	20	00	53
	D	193	19	46	
					M∡270°07'02"
105	R	135	22	36	20
	D	315	22	04	



K @ #103

FO. BC IN H.H.

Z ∡ TO #104

O 89 55 20

SD 5376.37

HD 5376.37

M 1638.72

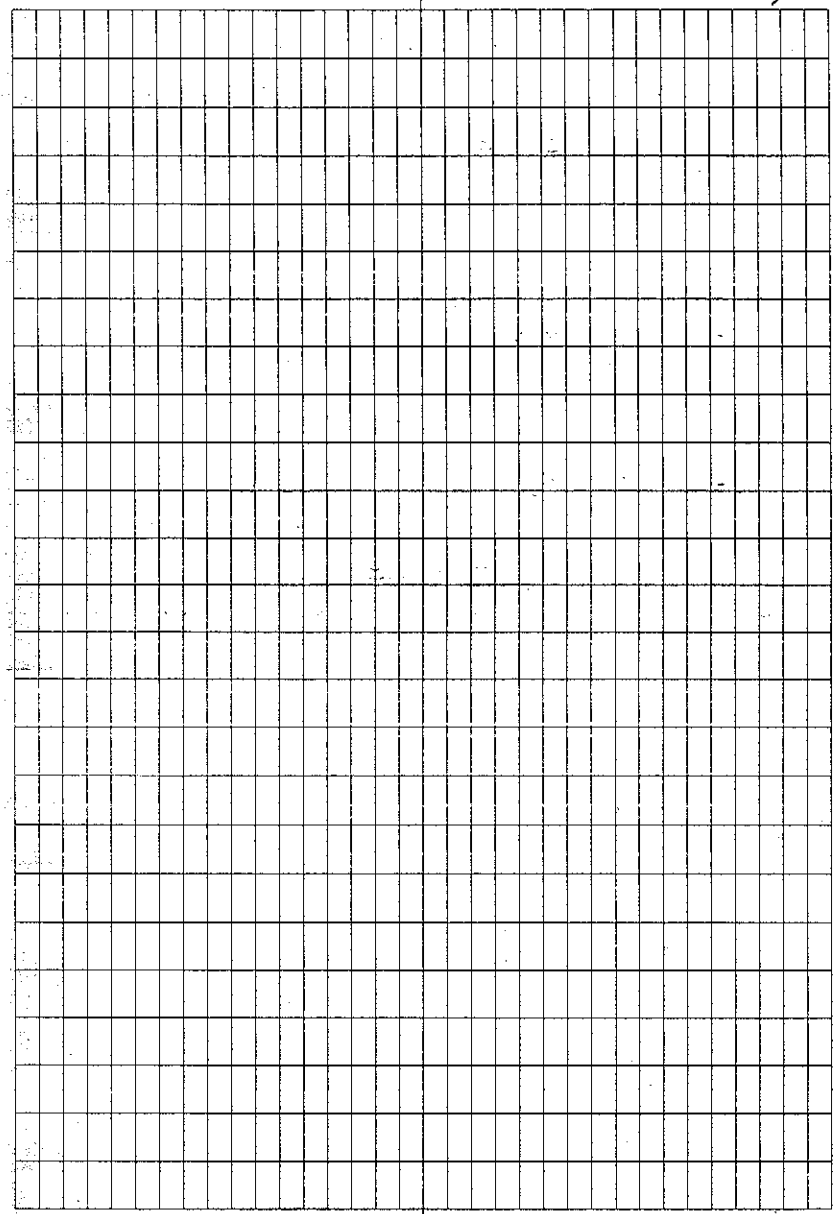
Z ∡ TO #105

O 90 16 02

SD 5286.29

HD 5286.23

M 1611.26



⊼ @ #105

FO. 2" PIPE FLUSH

1)

103	D	0	00	24	32
	R	180	00	40	

M∡ 90° 02' 01"

301	D	90	02	18	33
	R	270	02	48	

2)

103	R	225	15	42	21
	D	45	15	00	

M∡ 90° 02' 07"

301	R	315	17	36	28
	D	135	17	20	

M∡ 90° 02' 04"

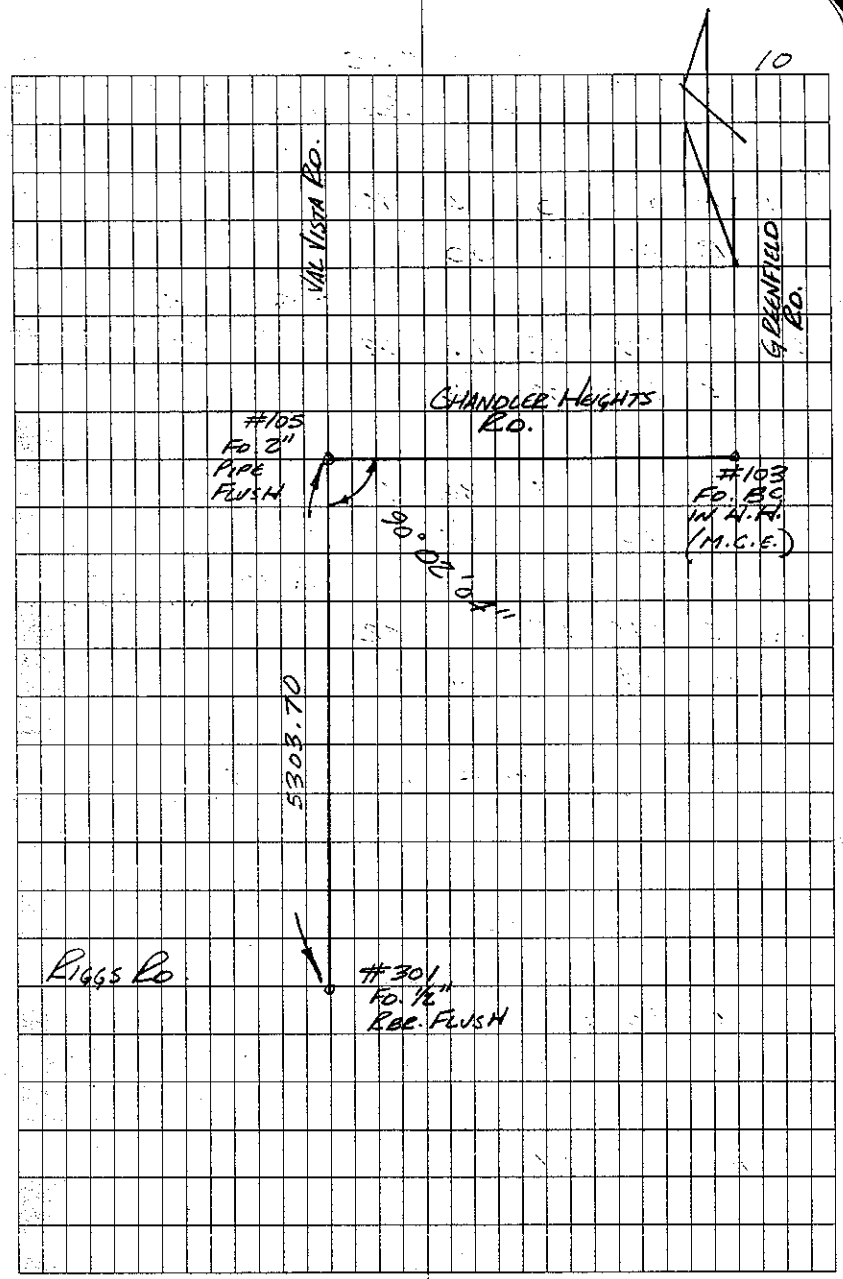
Z∡ TO #301

	D	90	05	26

SD 5303.72

HD 5303.70

M 1616.57



⊼ @ #301

FO. 1/2" RBR. FLUSH

1)					
105	D 0	00	24	42	
	R 180	01	00		
					M∡ 179°31'52"
106	D 179	32	22	34	
	R 359	32	46		
2)					
105	R 225	15	36	29	
	D 45	15	22		
					M∡ 179°32'03"
106	R 44	47	50	32	
	D 224	47	14		

M∡ 179° 31'57.5"

Z∡ to #106

D 89 55 18

SD 5263.12

HD 5263.11

M 1604.20

⊼ @ #106

SET H.&T.

1)

301	D	0	00	36	48
	R	180	01	00	

M∡ 90°31'50"

107	D	90	32	28	38
	R	270	32	48	

M∡ 90°31'54.5"

2)

301	R	225	15	30	15
	D	45	15	00	

M∡ 90°31'59"

107	R	315	47	28	14
	D	135	47	00	

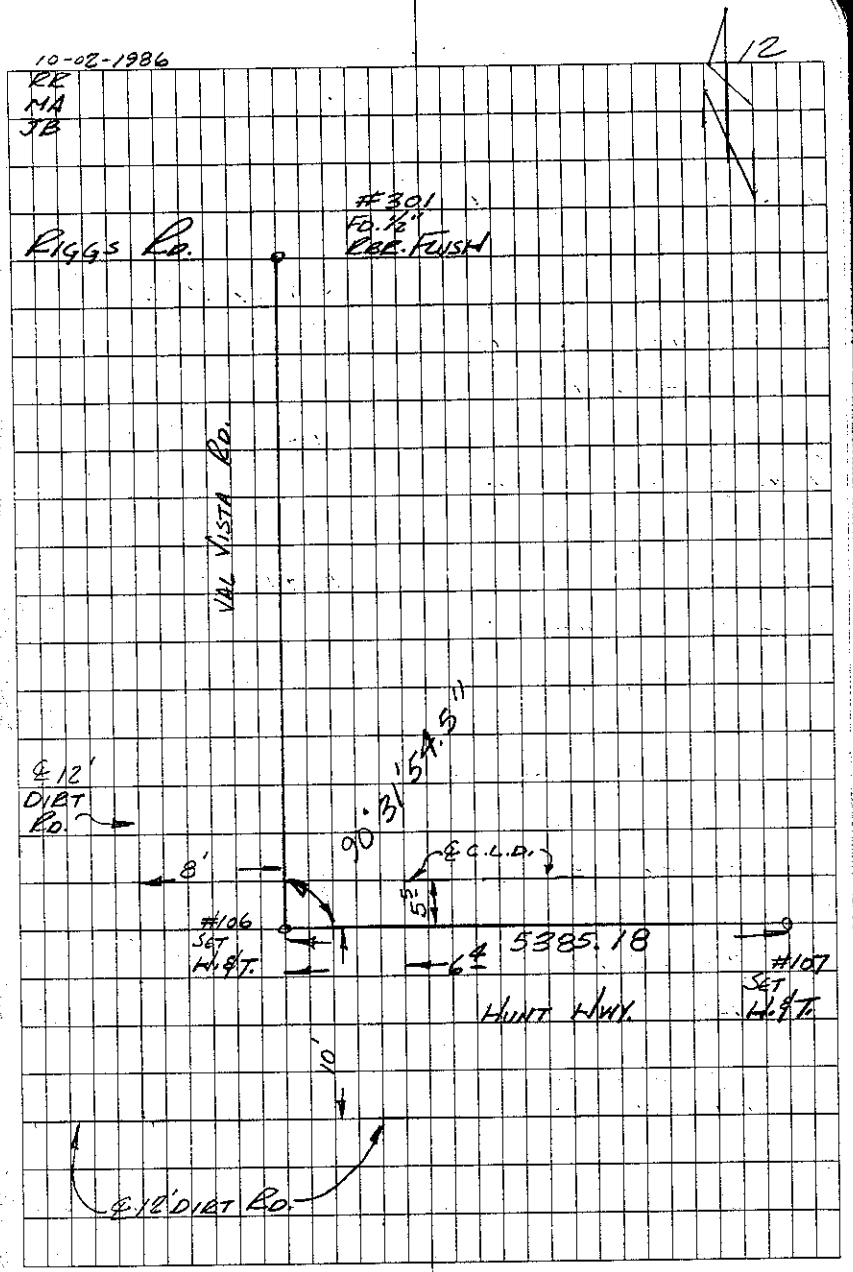
Σ∡ TO #107

	D	89	35	44

SD 5385.31

HD 5385.18

M 1641.45



π @ #107
SET H.&T.

1)
301 106 D 0 00 42 56
R 180 01 10

M∡ 179°10'29"

107 302 D 179 11 14 25
R 359 11 36

M∡ 179°10'32"

2)
301 106 R 225 15 36 25
D 45 15 14

M∡ 179°10'35"

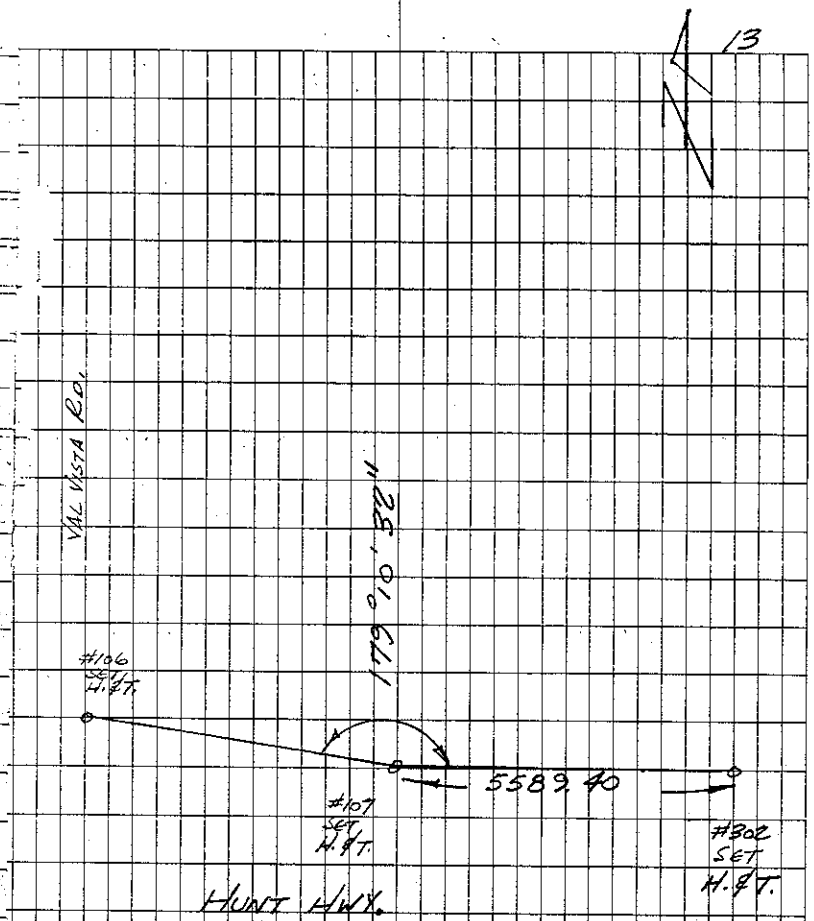
107 302 R 44 26 14 60
D 224 25 46

Z∡ TO #302

D 89 04 38

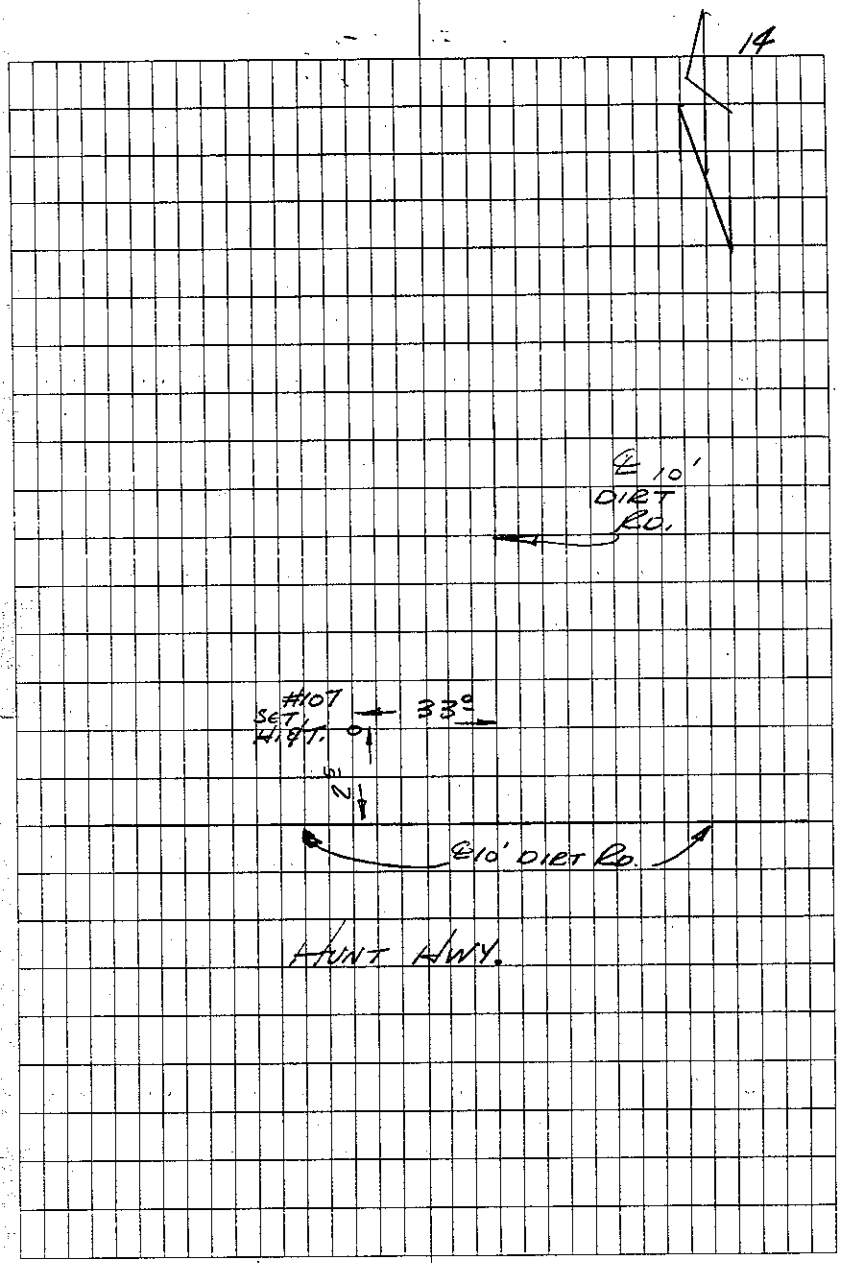
SD 5590.16
HD 5589.40

M 1703.86

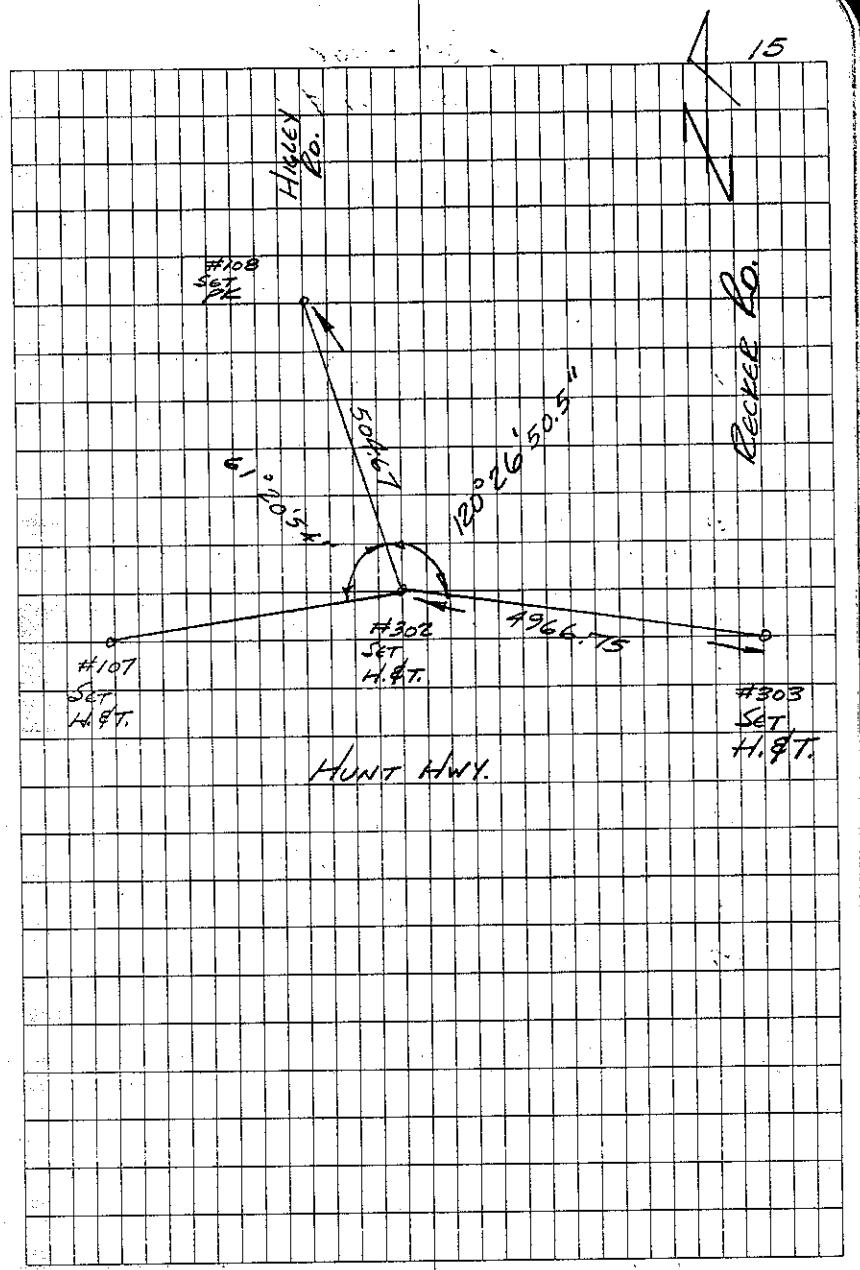


T @ #107
SET H. & T.

14



				K @ #302		
				SET H.&T.		
1)						
107	D	0	00	40	53	
	R	180	01	06		
						M ∡ 61° 20' 51"
108	D	61	21	32	44	
	R	241	21	56		
						M ∡ 181° 47' 46"
303	D	181	48	24	39	
	R	01	48	54		
2)						M ∡
107	R	225	15	30	21	
	D	45	15	12		
						M ∡ 61° 20' 57"
108	R	286	36	34	18	
	D	106	36	02		
						M ∡ 181° 47' 43"
303	R	47	03	18	64	
	D	227	02	50		
				M ∡ 61° 20' 54"		
				M ∡ 181° 47' 44.5"		



x @ #302
Set H.&T.

& to #108

D 96 28 20

SD 507.91
HD 504.67

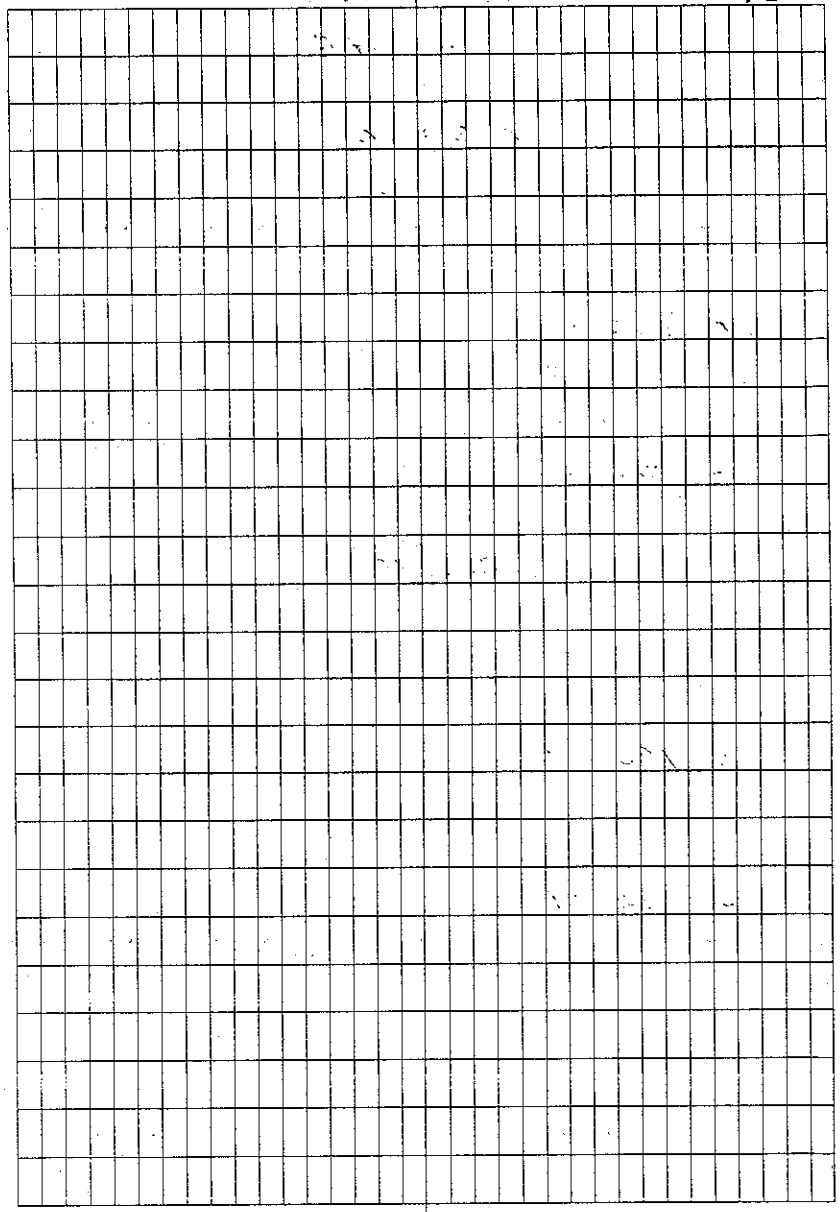
M 154.81

& to #303

D 90 03 52

SD 4966.75
HD 4966.75

M 1513.87



π @ #303
SET H.&T.

1)
302 D 0 00 30 42
R 180 00 54
M ∡ 105° 05' 37"

109 D 105 06 04 19
R 285 06 34
M ∡ 179° 06' 13"

304 D 179 06 48 57
R 359 07 06

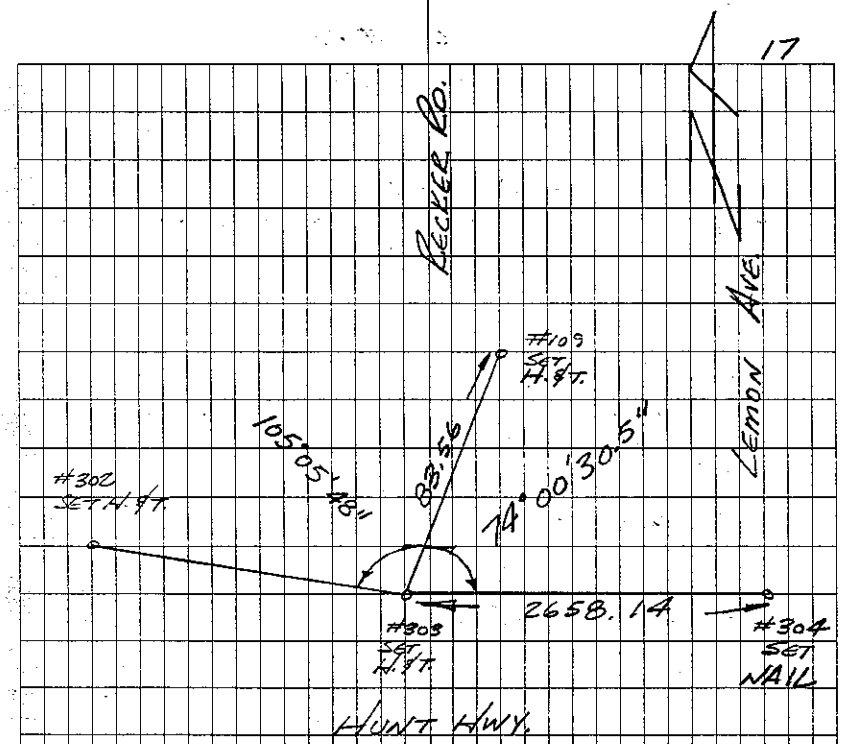
2)
302 R 225 15 36 29
D 45 15 22
M ∡ 105° 05' 59"

109 R 330 21 40 28
D 150 21 16
M ∡ 179° 06' 24"

304 R 44 22 06 53
D 224 21 40

M ∡ 105° 05' 48"

M ∡ 179° 06' 18.5"



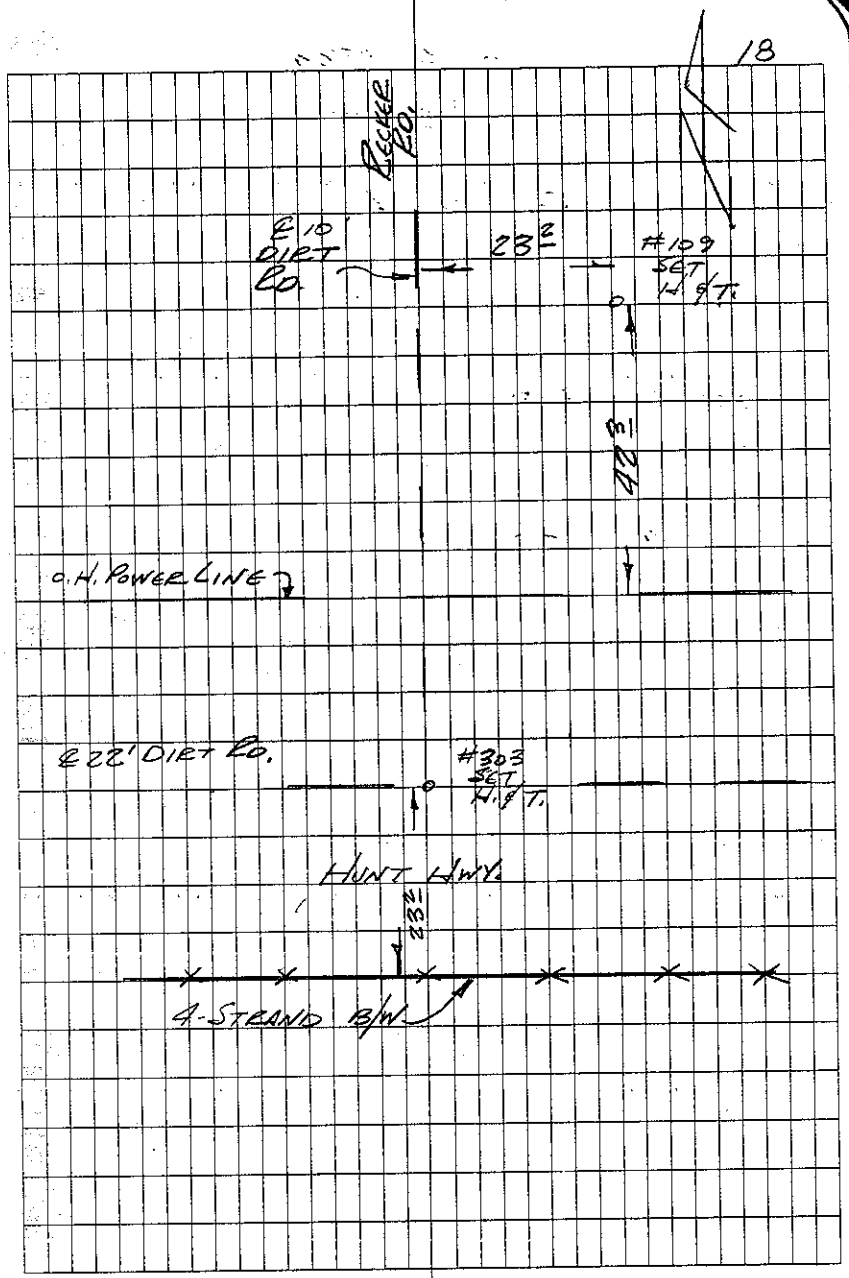
⊼ @ #303
SET H. & T.

℄ ∡ TO #304

D 89 31 24

SD 2658.23
HD 2658.14

M 810.23



T @ #304

SET NAIL

1)

303 0 0 00 36 53

R 180 01 10

M = 179° 40' 46"

305 D 179 41 20 39

R 359 41 54

M = 179° 40' 48.5"

2)

303 R 225 15 42 27

D 45 15 12

M = 179° 40' 51"

305 R 44 56 32 18

D 224 56 04

∴

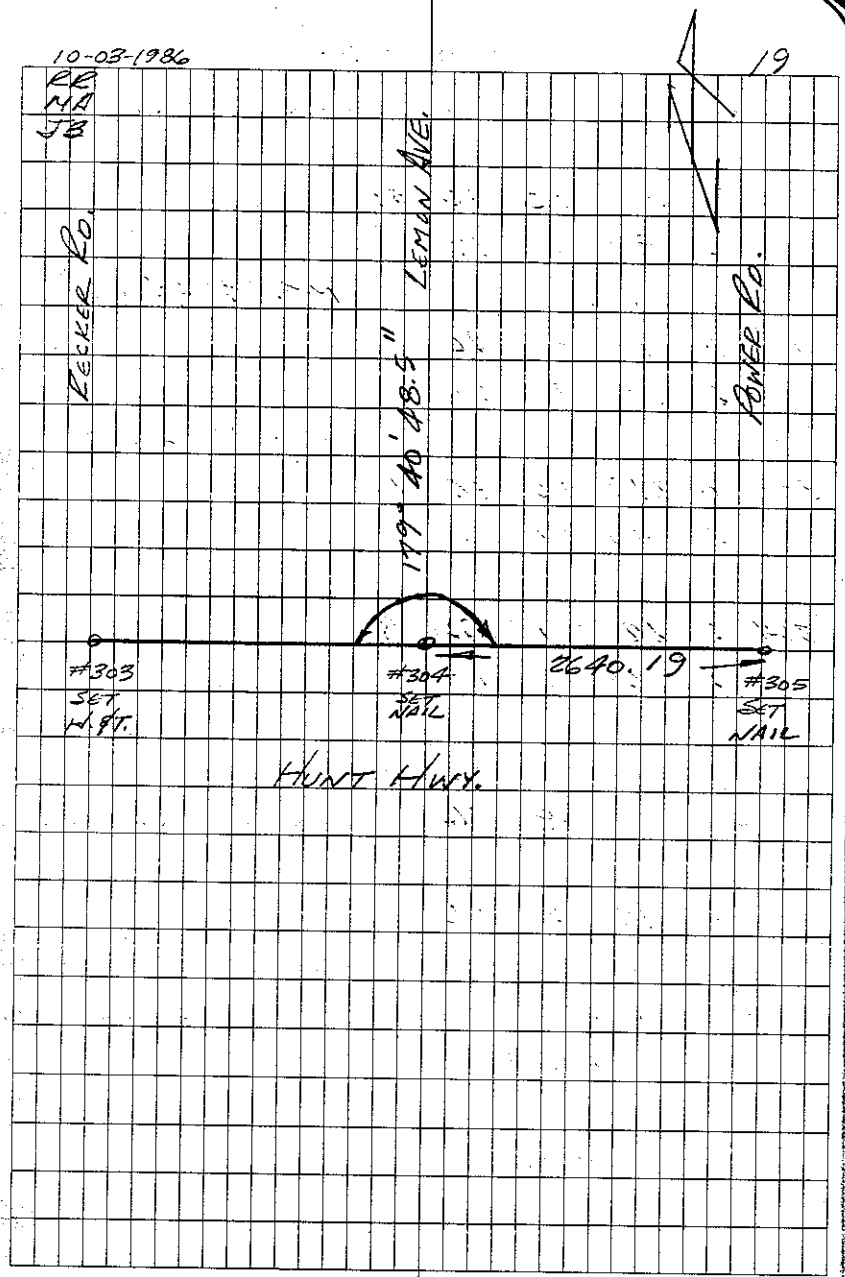
T to #305

D 89 50 28

SD 2640.21

HD 2640.19

M 804.73



π @ #305

SET NAIL

1)

304	D	0	00	30	41
	R	180	00	52	

M∡84° 43' 08"

110	D	84	43	42	49
	R	264	43	56	

M∡179° 56' 30"

306	D	179	56	54	71
	R	359	57	28	

2)

304	R	225	15	36	18
	D	45	15	00	

M∡84° 43' 32"

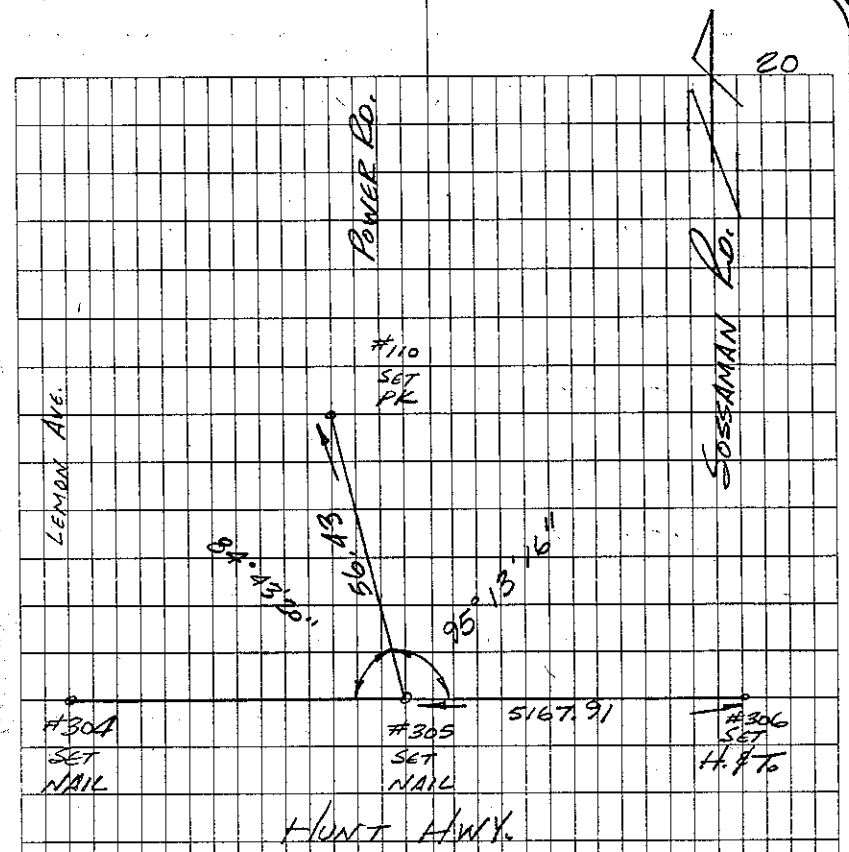
110	R	309	59	04	50
	D	129	58	36	

M∡179° 56' 42"

306	R	45	12	12	60
	D	225	11	48	

M∡84° 43' 20"

M∡179° 56' 36"



T @ #305

SET NAIL

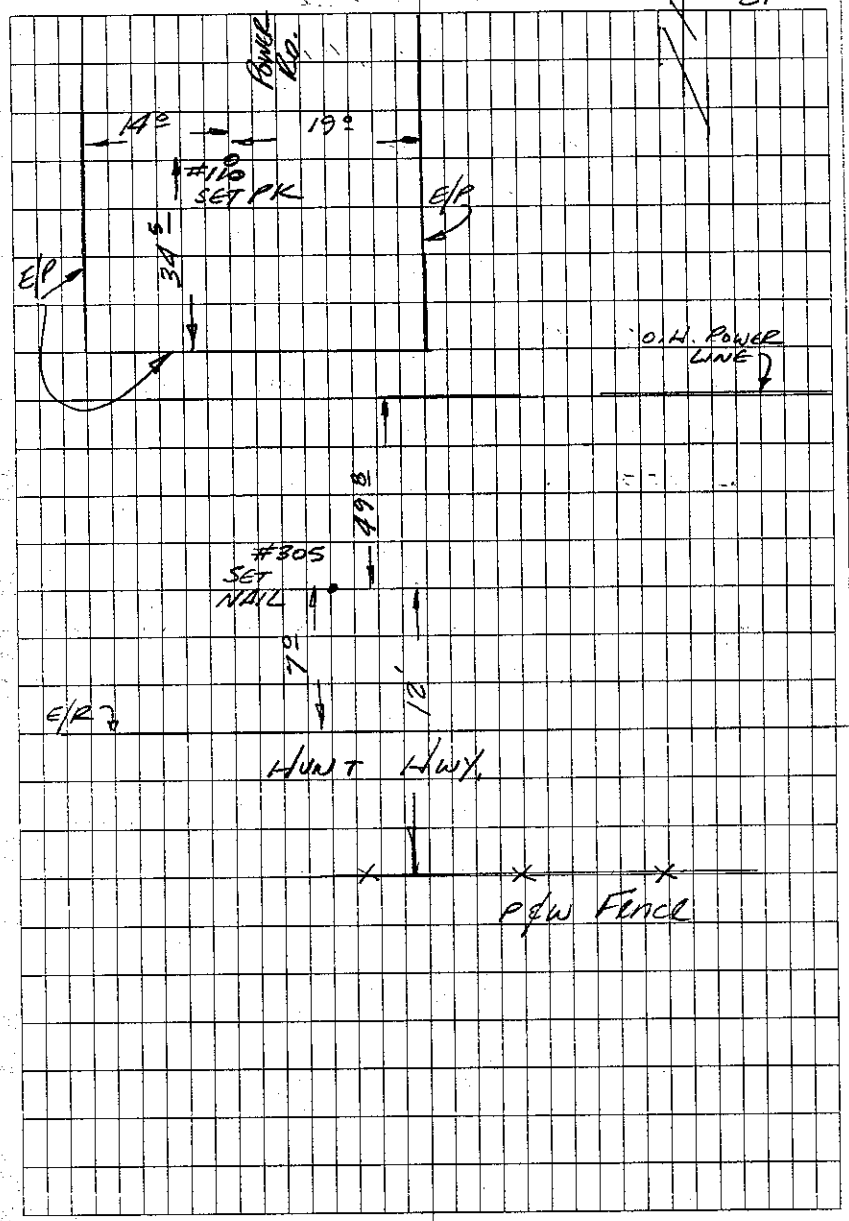
Z T TO #306

D 90 03 58

SD 5167.93

HD 5167.91

M 1575.18



T @ #306

Set H.&T.

1)

305	D	0	00	36	48
	R	180	01	00	

M ∠ 135° 45' 33"

111	D	135	46	12	21
	R	315	46	30	

M ∠ 178° 46' 42"

307	D	178	47	18	30
	R	358	47	42	

2)

305	R	225	15	42	30
	D	45	15	18	

M ∠ 135° 45' 35"

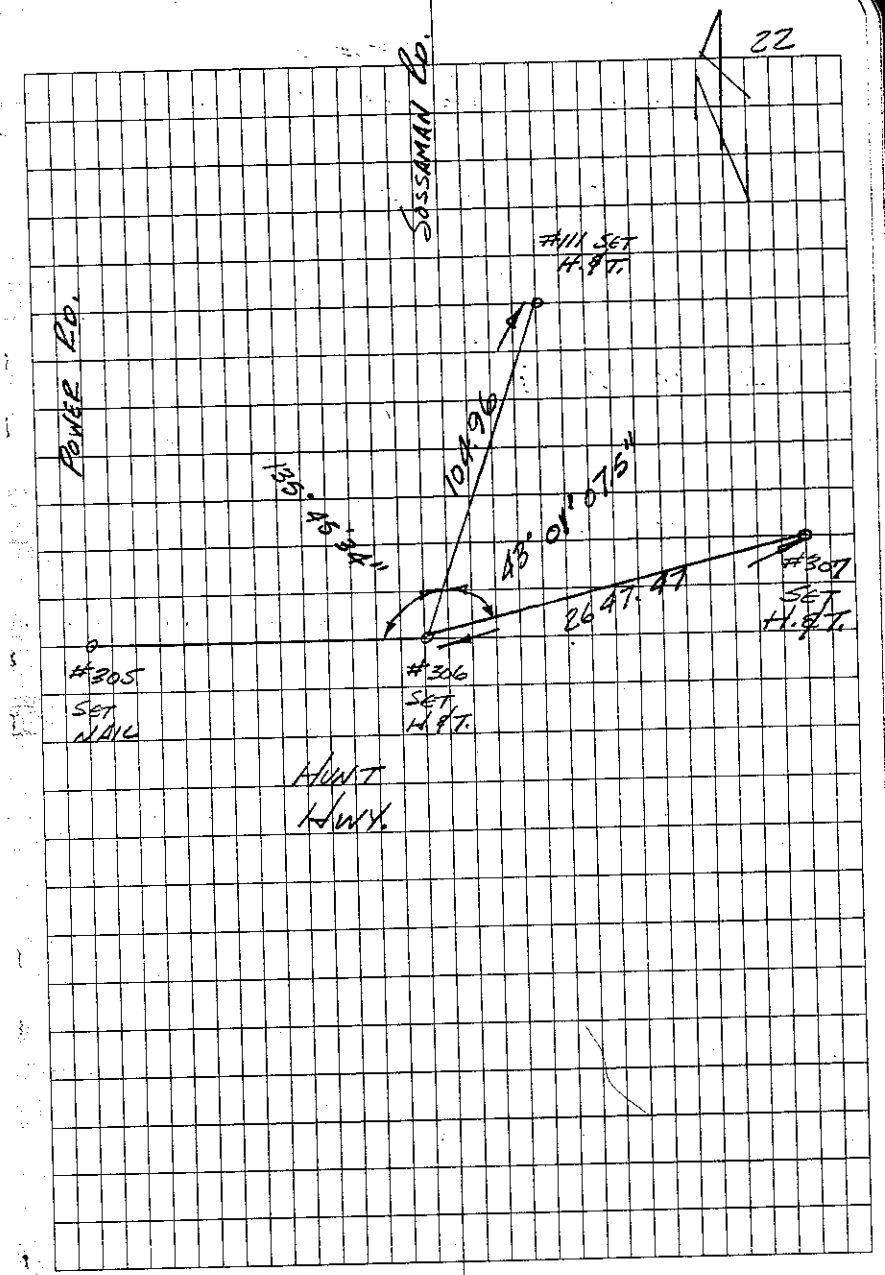
111	R	01	01	16	65
	D	181	00	54	

M ∠ 178° 46' 41"

307	R	44	02	22	11
	D	224	02	00	

M ∠ 135° 45' 34"

M ∠ 178° 46' 41.5"



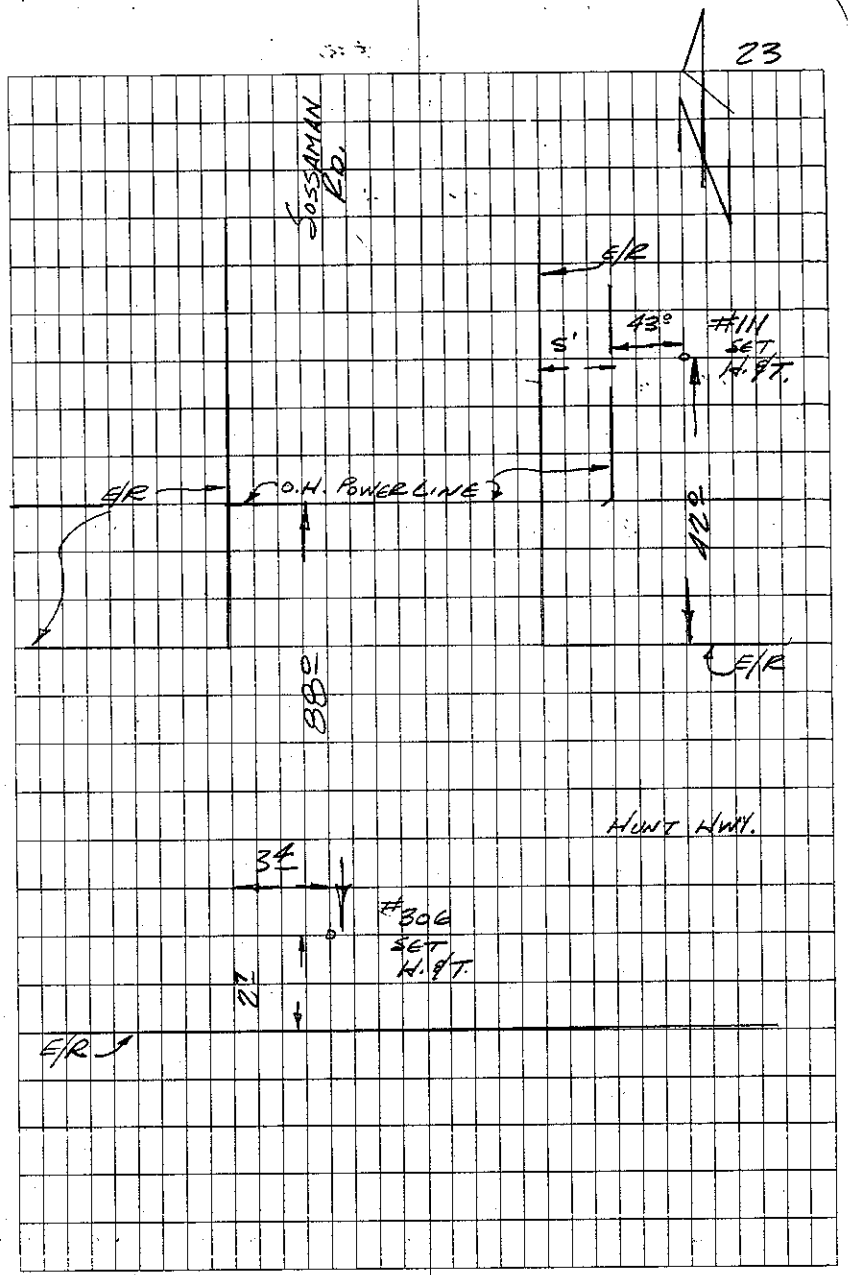
⊼ @ #306
Set H.&T.

Z ∡ To #307

D 89 56 08

SD 2647.48
HD 2647.47

M 806.95



T @ #307
SET H.I.T.

D
306 D 0 00 30 18
R 180 00 06

M = 180° 03' 04"

308 D 180 03 08 22
R 0 03 36

M = 180° 02' 47"

D
306 R 225 15 42 31
D 45 15 20

M = 180° 02' 30"

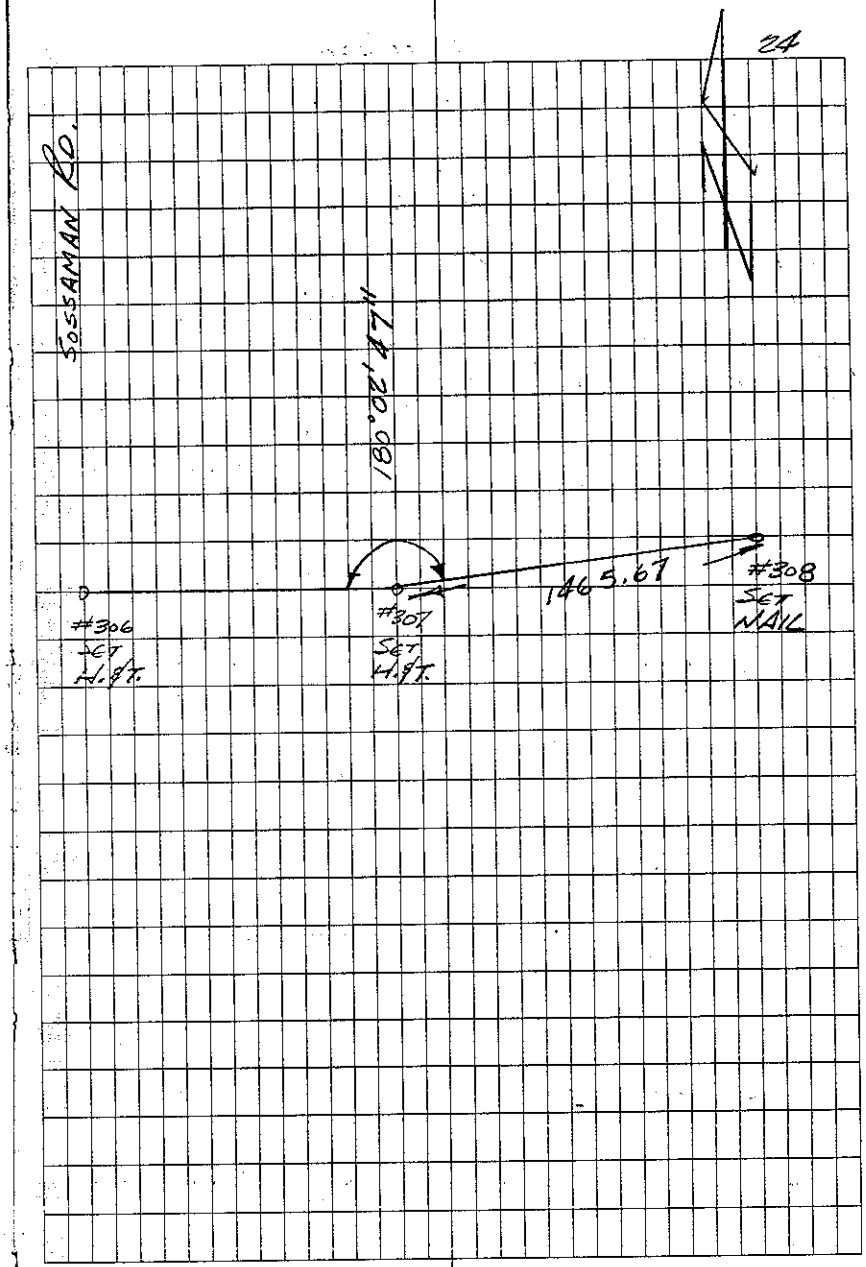
308 R 45 18 08 61
D 225 17 54

E to #308

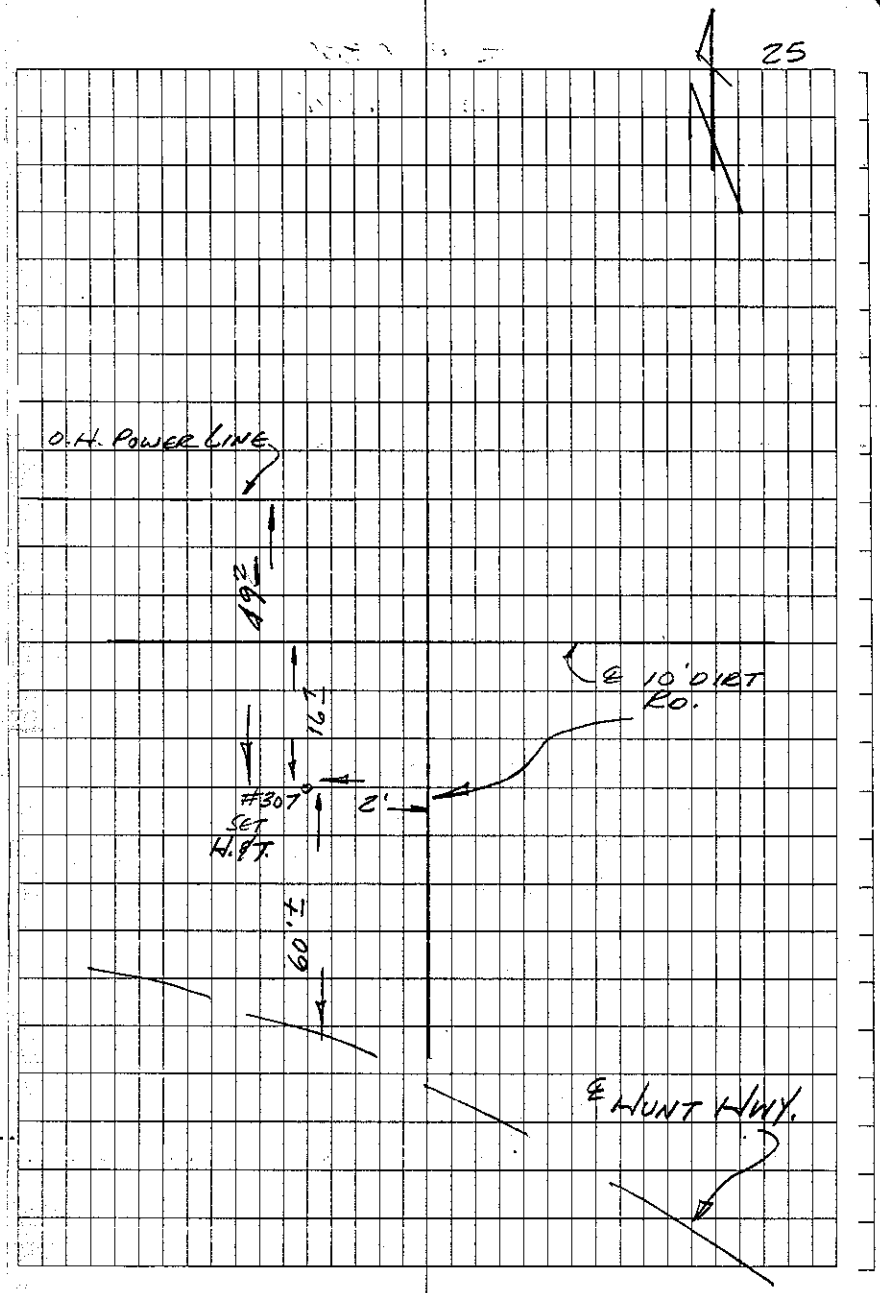
D 90 11 38

SD 1465.68
HD 1465.67

M. 446.74



x @ #307
SET H.&T.



∠ @ #308

SET NAIL

1)

307 D 0 0 00 36 50

R 180 01 04

M∠181° 13' 07"

112 D 181 13 46 57

R 01 14 08

M∠181° 13' 17.5"

2)

307 R 225 15 30 74

D 45 14 58

M∠181° 13' 28"

112 R 46 28 52 42

D 226 28 32

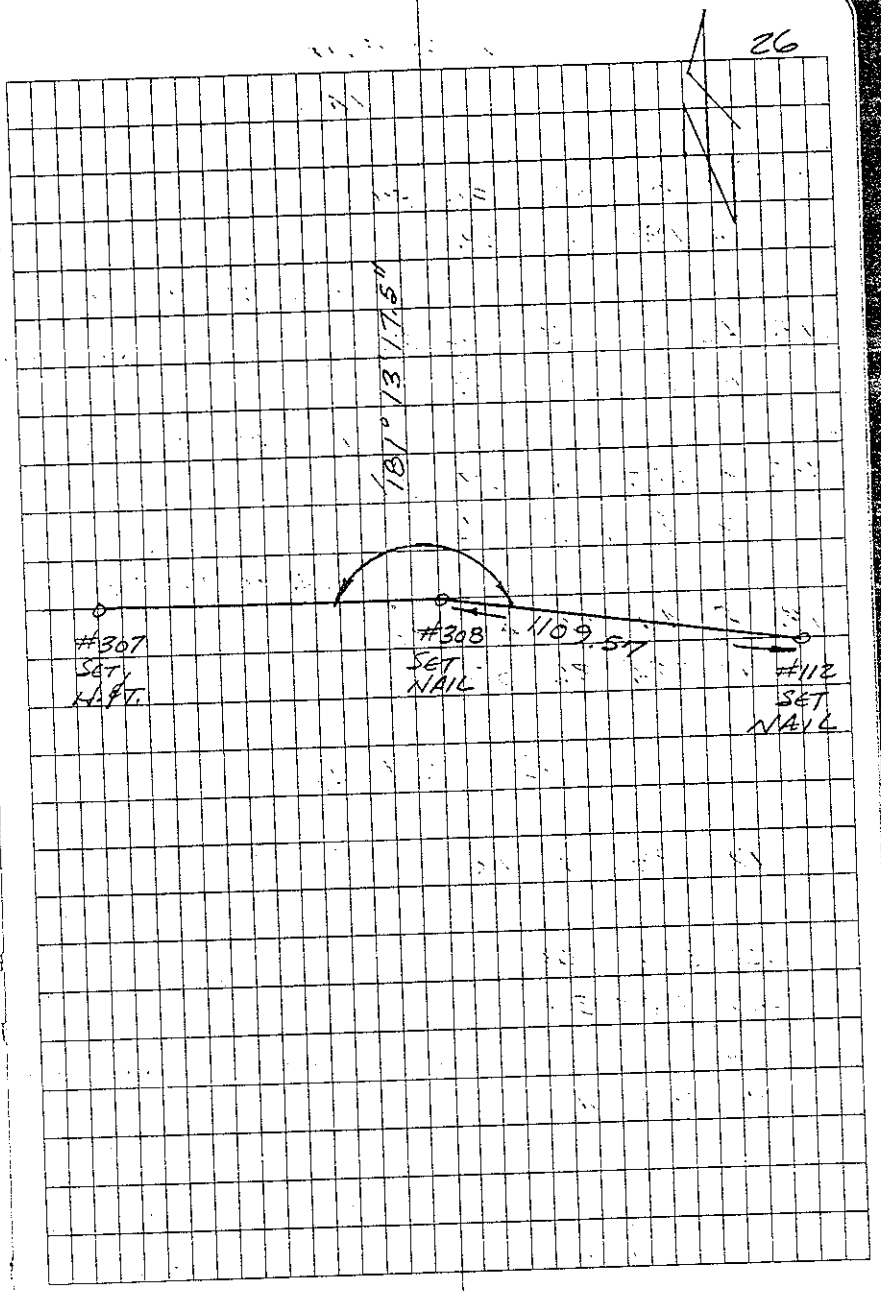
Z∠ To #112

D 90 17 50

SD 1109.58

HD 1109.57

M 338.20



$\angle$ @ #112

SET NAIL

1)

308 D 0 00 36 57

R 180 01 08

M∡179° 20' 29"

113 D 179 21 16 26

R 359 21 36

M∡179° 20' 41.5"

2)

308 R 225 15 42 27

D 45 15 12

M∡179° 20' 54"

113 R 44 36 40 21

D 224 36 02

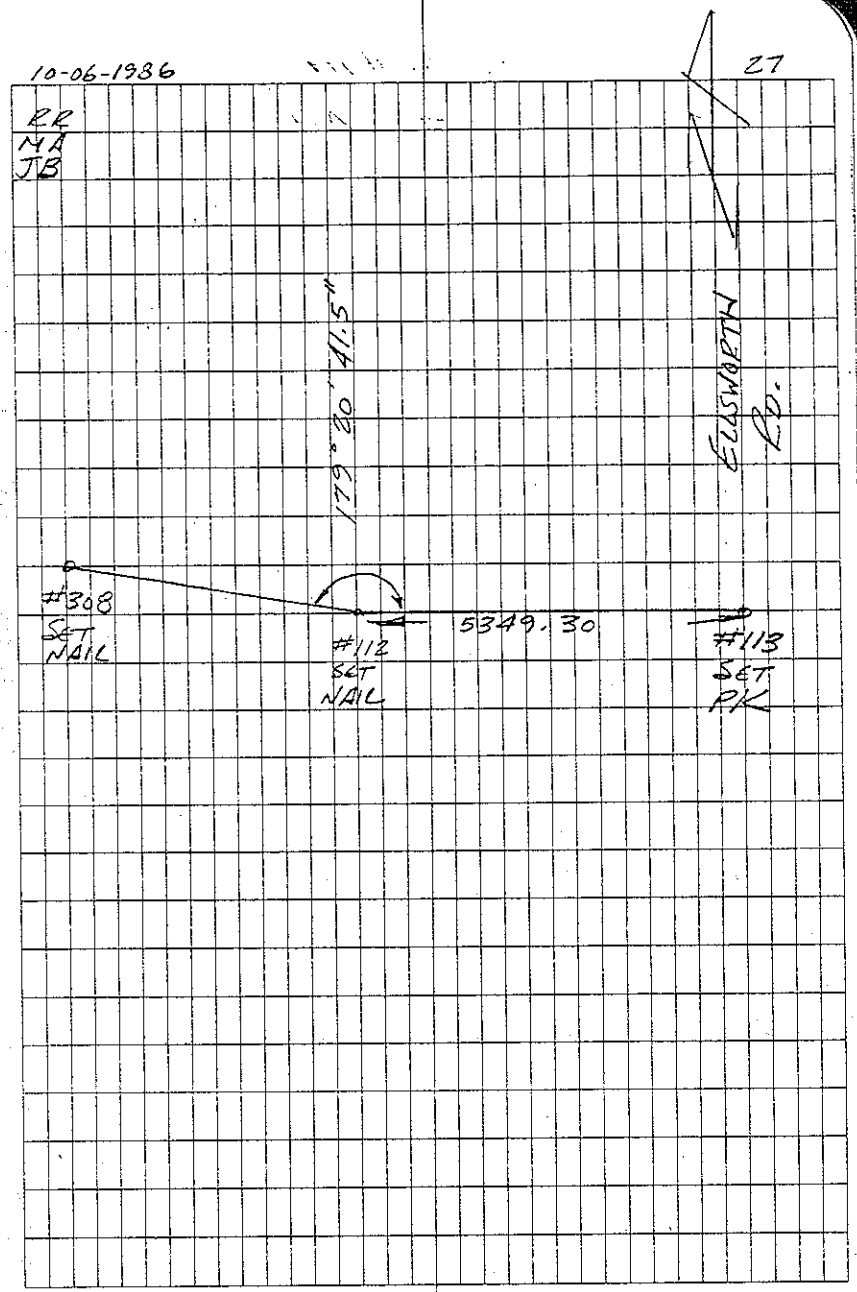
ΣΔ to # 113

D 89 51 48

SD 5349.34

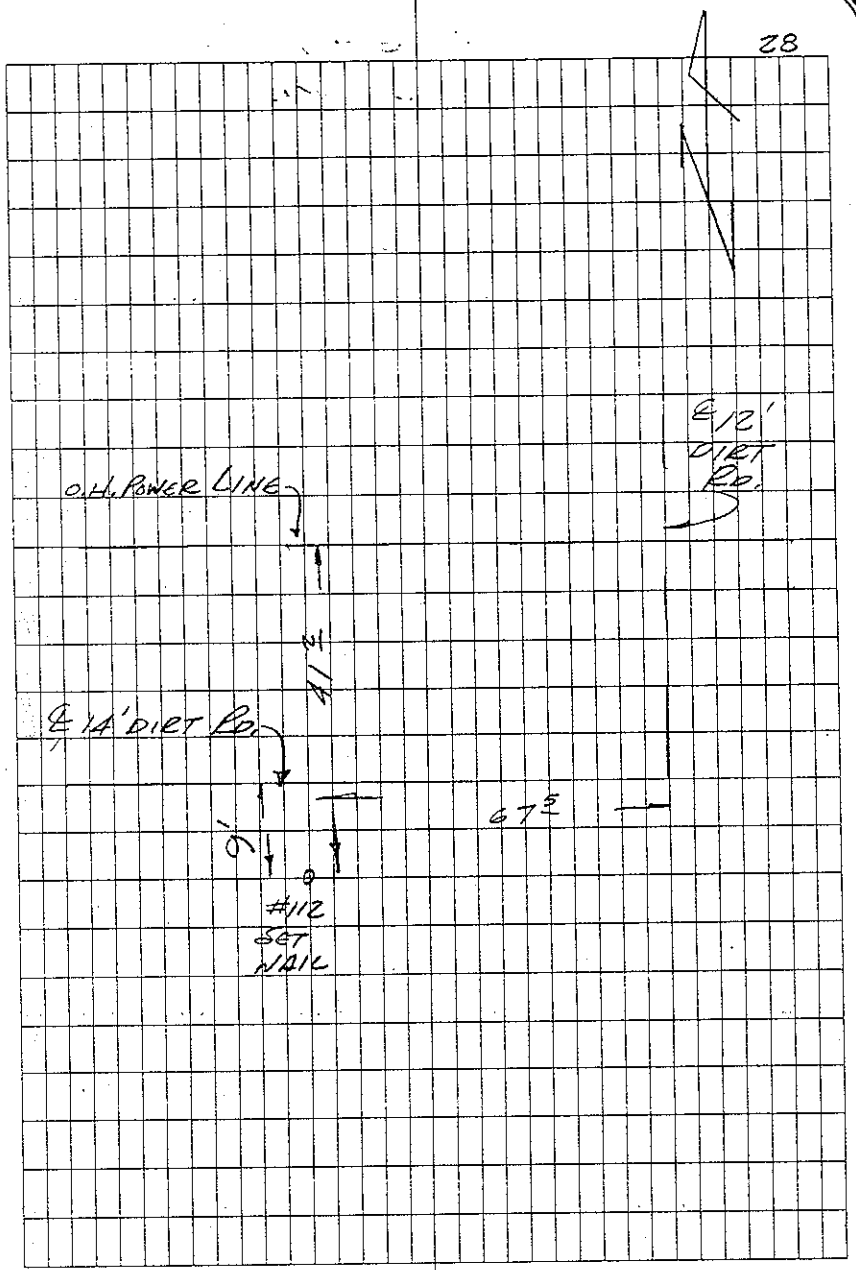
HD 5349.30

M 1630.47



X @ #112
SET NAIL

28



T @ #113

SET PK

1)

112 D 0 00 30 45

R 180 01 00

M ∠ 180° 06' 30"

114 D 180 06 54 75

R 0 07 36

M ∠ 180° 06' 29.5"

2)

112 R 225 15 30 21

D 45 15 12

M ∠ 180° 06' 29"

114 R 45 22 06 50

D 225 21 34

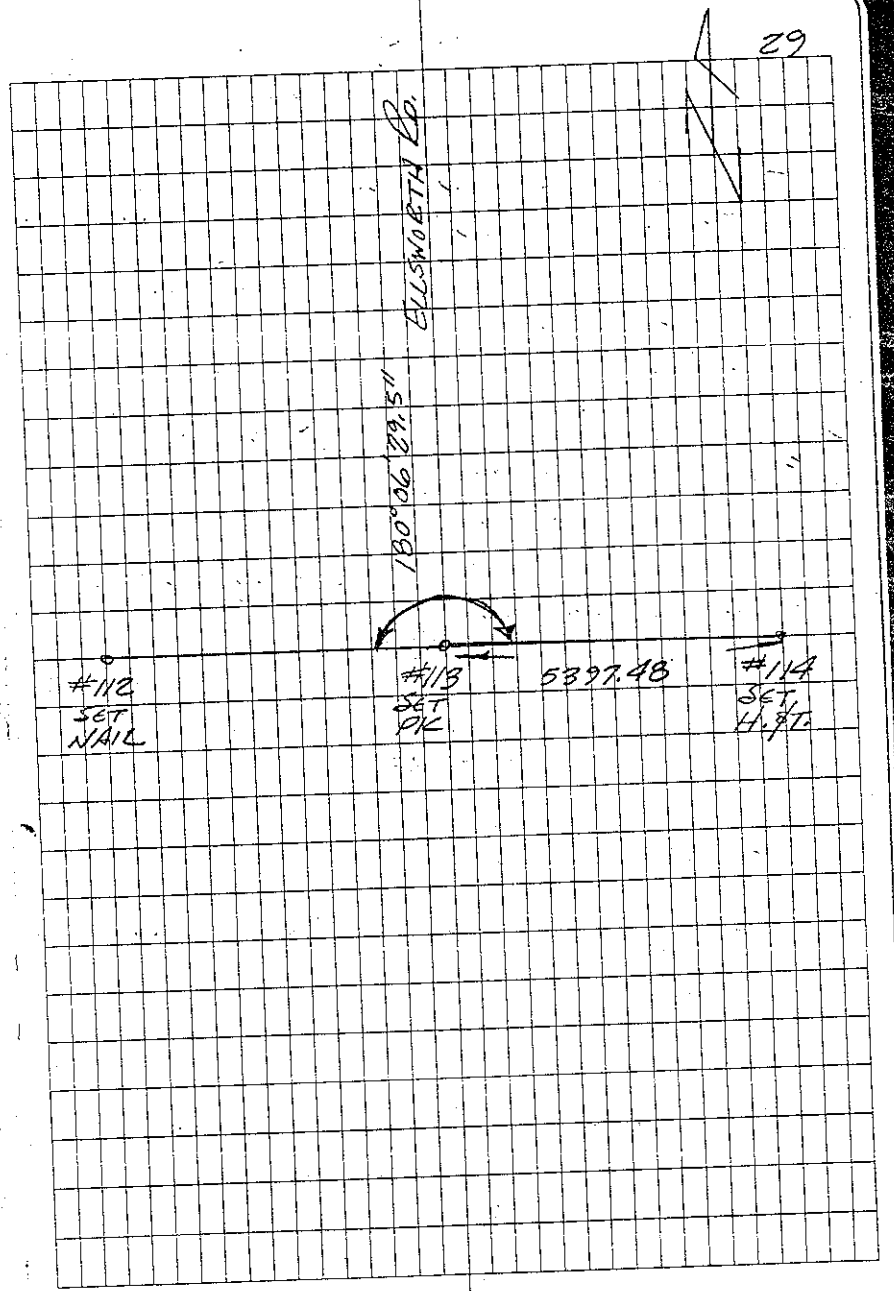
E ∠ to #114

D 89 50 14

SD 5397.50

HD 5397.48

M 1645.16



T @ #114
SET H.P.T.

1) 113 D 0 00 42 63
E 180 01 24
M ∢ 179° 53' 11"

115 D 179 54 08 14
R 359 54 20
M ∢ 179° 53' 12.5"

2) 113 R 225 15 30 16
D 45 15 02
M ∢ 179° 53' 14"

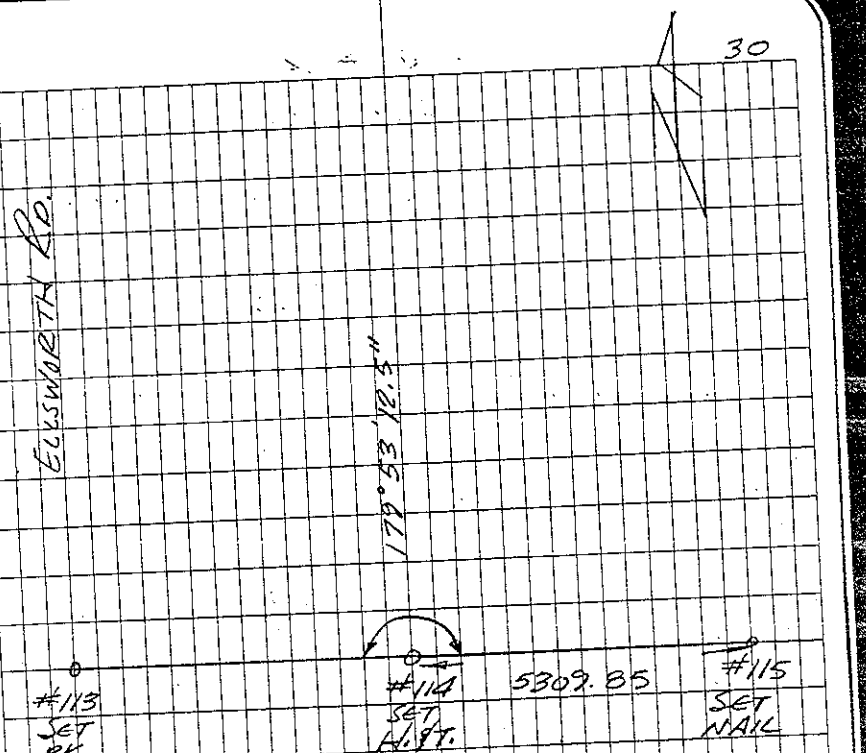
115 R 45 08 44 30
D 225 08 16

E ∢ To #115

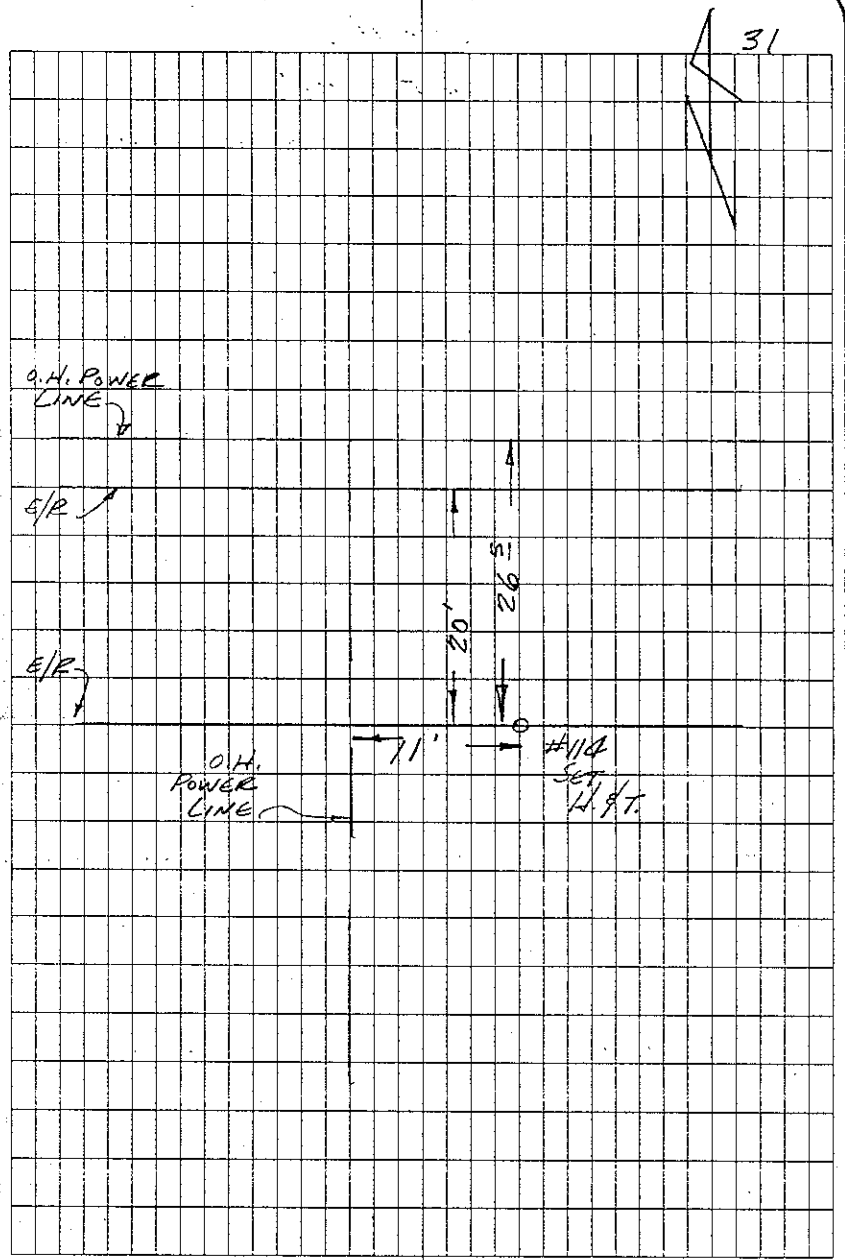
D 89 03 14

SD 5310.60
HD 5309.85

M 1618.66



π @ #114
SET H. & T.



x @ #115

SET NAIL

1)

114 D 0 00 36 45

R 180 00 54

M ∠ 180° 20' 32"

116 D 180 20 58 77

R 0 21 36

M ∠ 180° 20' 41.5"

2)

114 R 225 15 36 19

D 45 15 02

M ∠ 180° 20' 51"

116 R 45 36 24 70

D 225 35 56

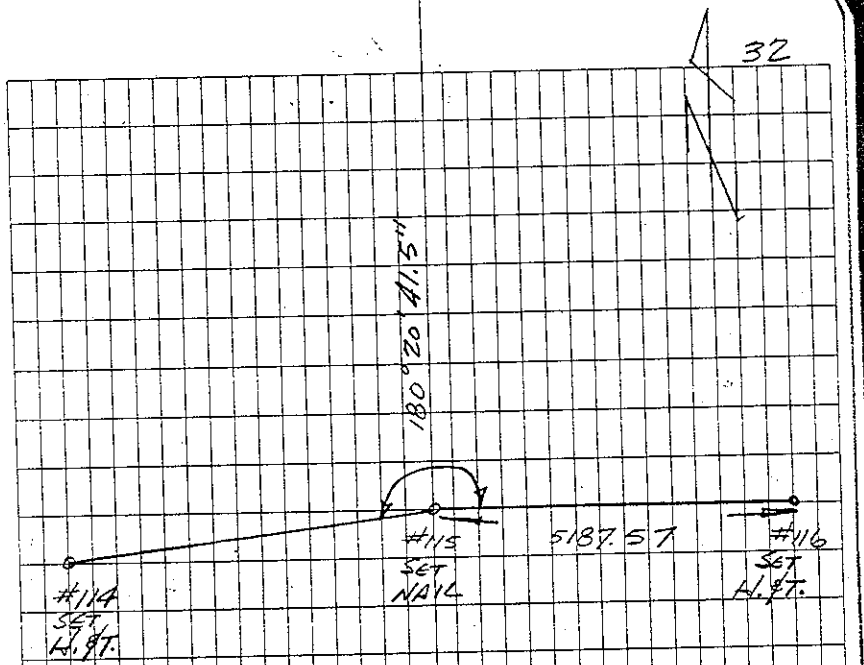
℄ ∠ to #116

D 89 59 04

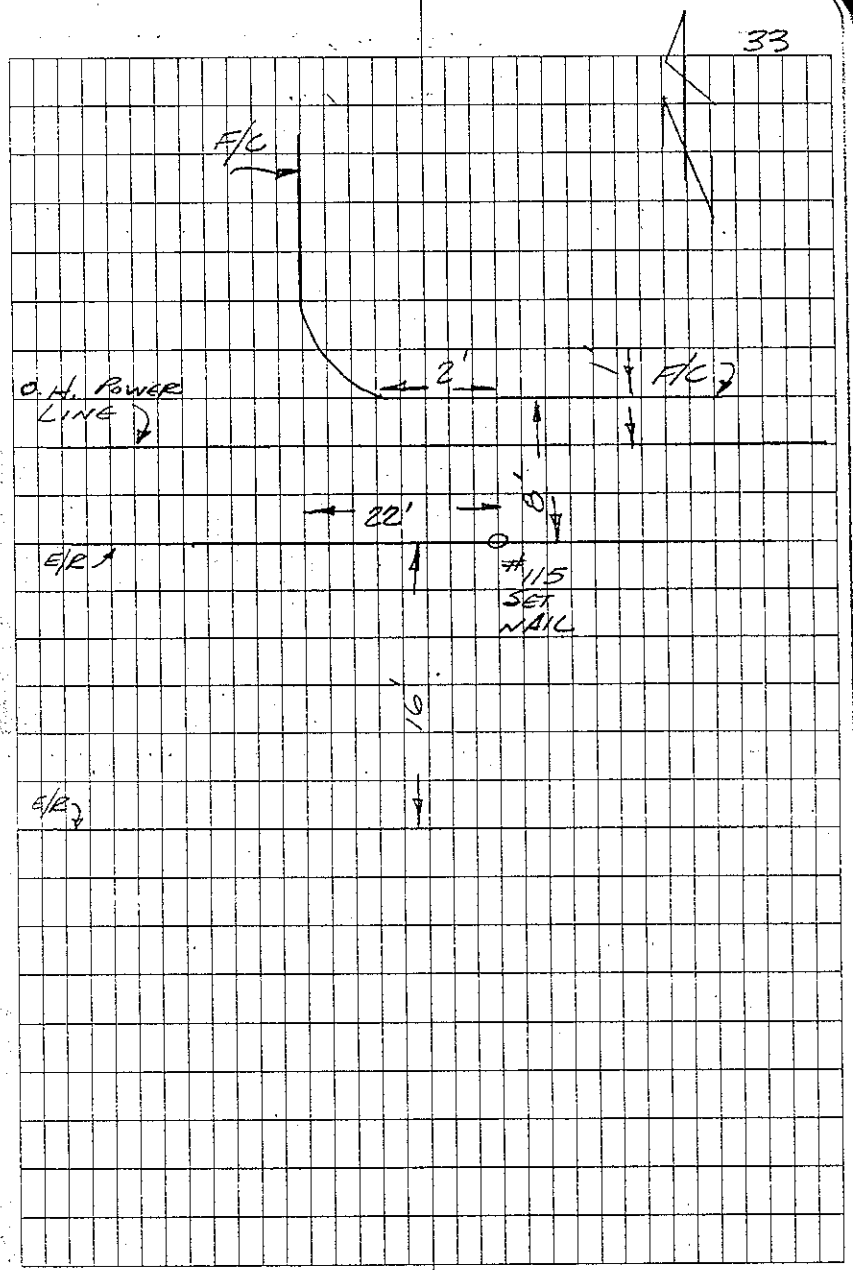
SD 5187.58

HD 5187.57

M 1581.17



T @ #115
SET NAIL



x @ #116

SET H. & T.

1)

115	D	0	00	30	42
	R	180	00	54	

M ∢ 90° 30' 23"

309	D	90	31	00	05
	R	270	31	10	

M ∢ 90° 30' 34"

2)

115	R	225	15	42	35
	D	45	15	28	

M ∢ 90° 30' 45"

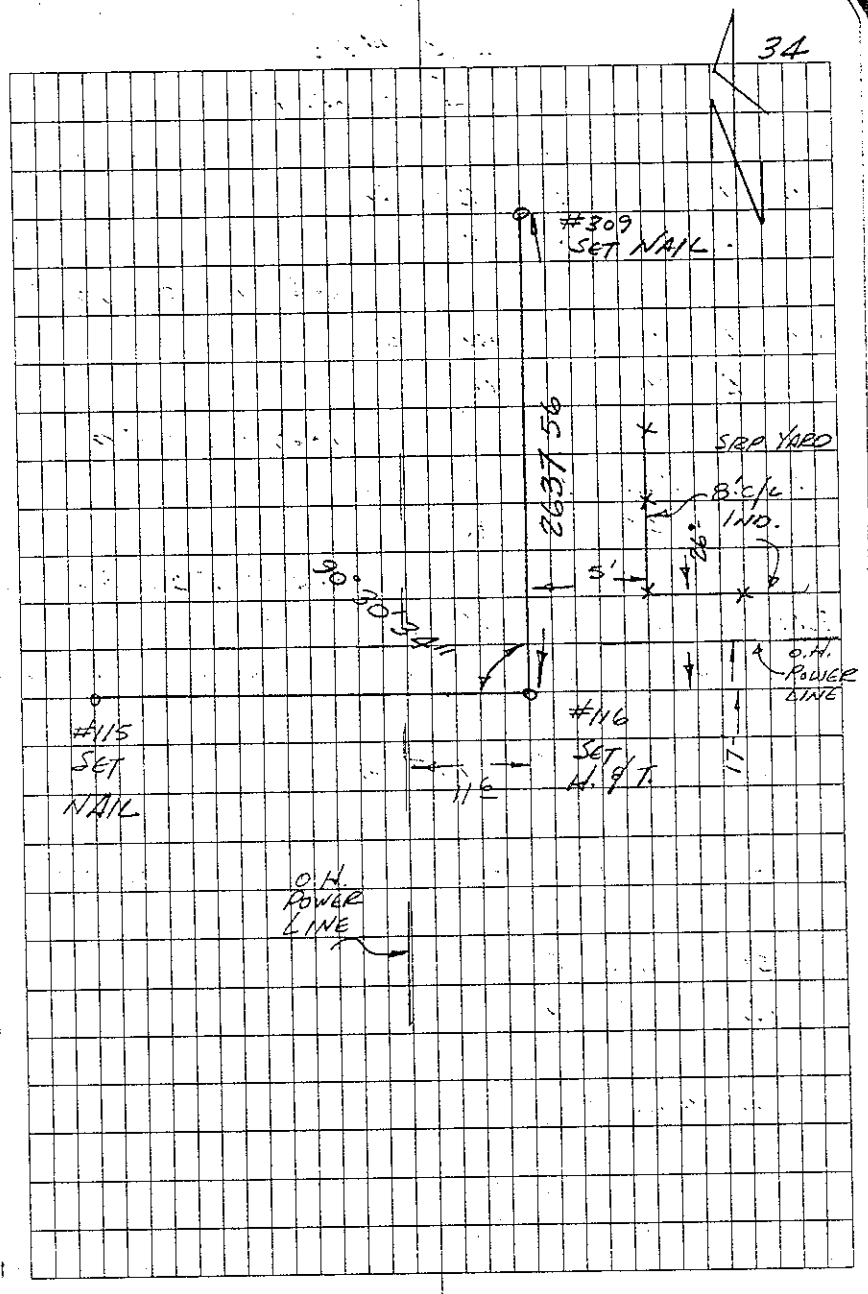
309	R	315	46	24	20
	D	135	46	16	

E ∢ to #309

	D	89	58	44

SD	2637.56
HD	2637.56

M	803.93



x @ #309

SET NAIL

1)

116 D 0 00 28 42

R 180 00 56

M = 178° 20' 22"

310 D 178 20 54 64

R 358 21 14

M = 178° 20' 30"

2)

116 R 225 15 38 34

D 45 15 30

M = 178° 20' 38"

310 R 43 36 18 12

D 223 36 06

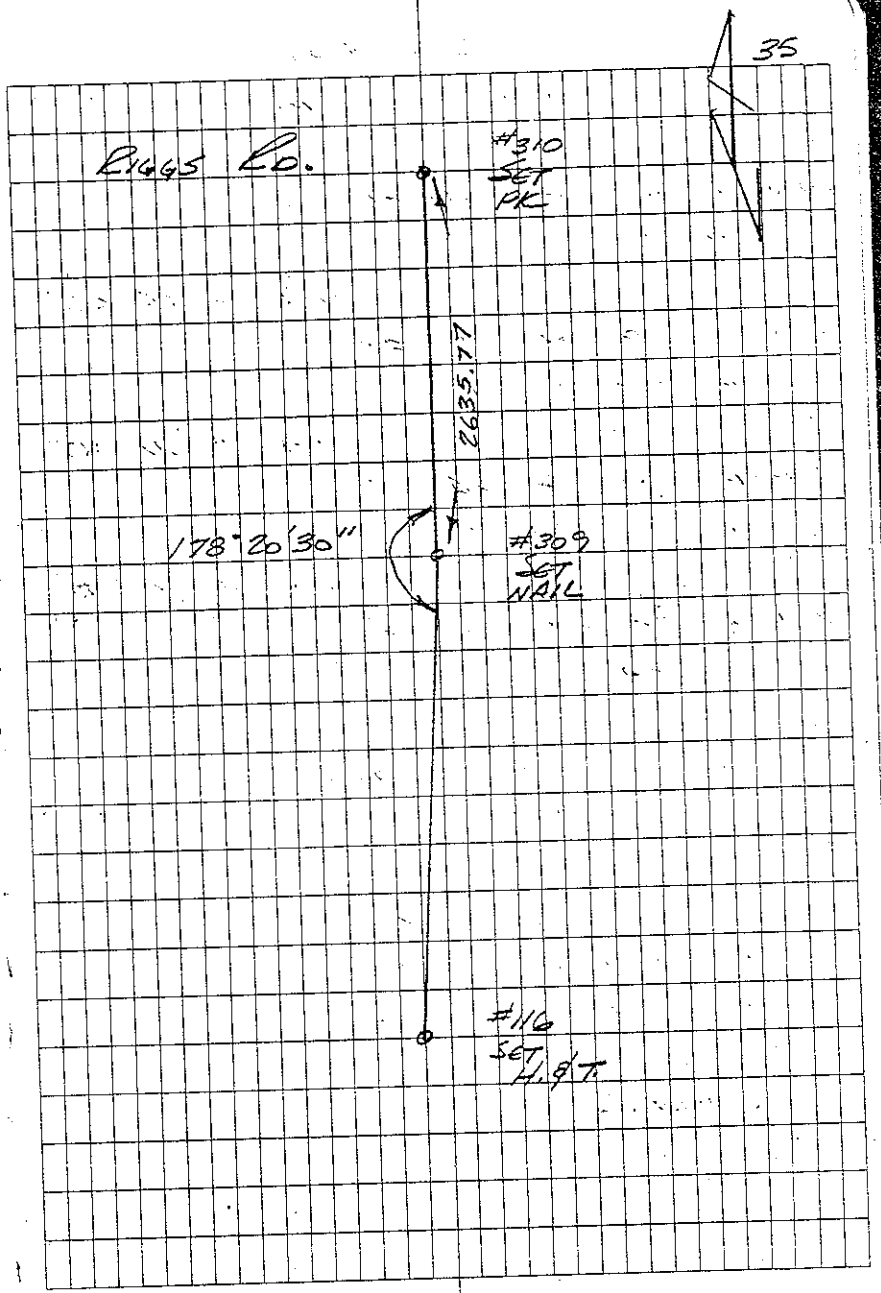
E & To # 310

D 90 05 40

SD 2635.79

HD 2635.77

M 803.38



K @ #310

SET PK

1)

309 D 0 00 38 52

R 180 01 06

M ∡ 179° 44' 39"

311 D 179 45 18 31

R 359 45 44

M ∡ 179° 44' 37"

2) 309 R 225 15 34 25

D 45 15 16

M ∡ 179° 44' 35"

311 R 45 00 10 05

D 225 00 00

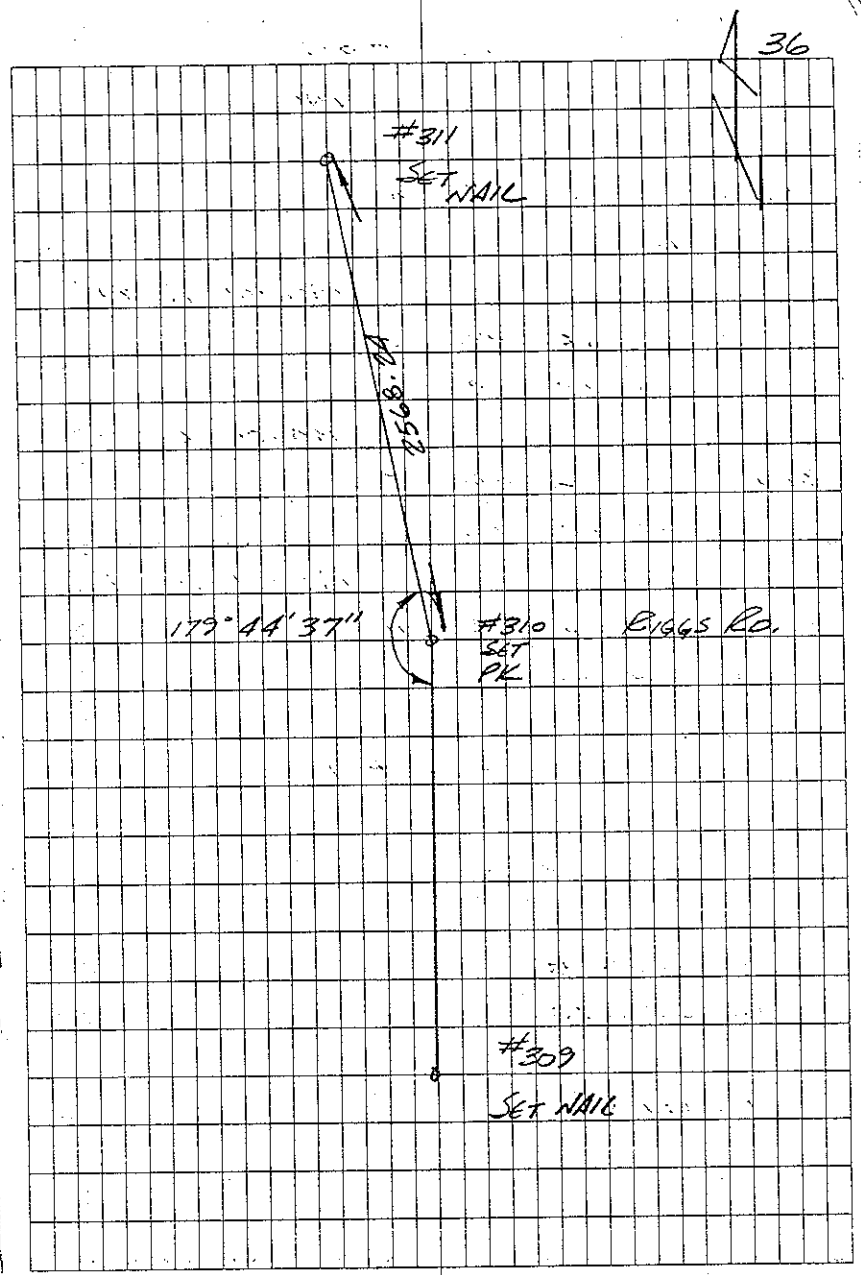
∡ TO #311

D 90 02 02

SD 2568.24

HD 2568.24

M 782.80



T @ #311

SET NAIL

1)

310	D	0	00	30	47
	R	180	01	04	

M∡ 181° 12' 21"

117	D	181	12	50	68
	R	01	13	26	

M∡ 181° 12' 21"

2)

310	R	225	15	42	23
	D	45	15	04	

M∡ 181° 12' 21"

117	R	46	27	58	44
	D	226	27	30	

Z∡ to #117

D	90	03	44	

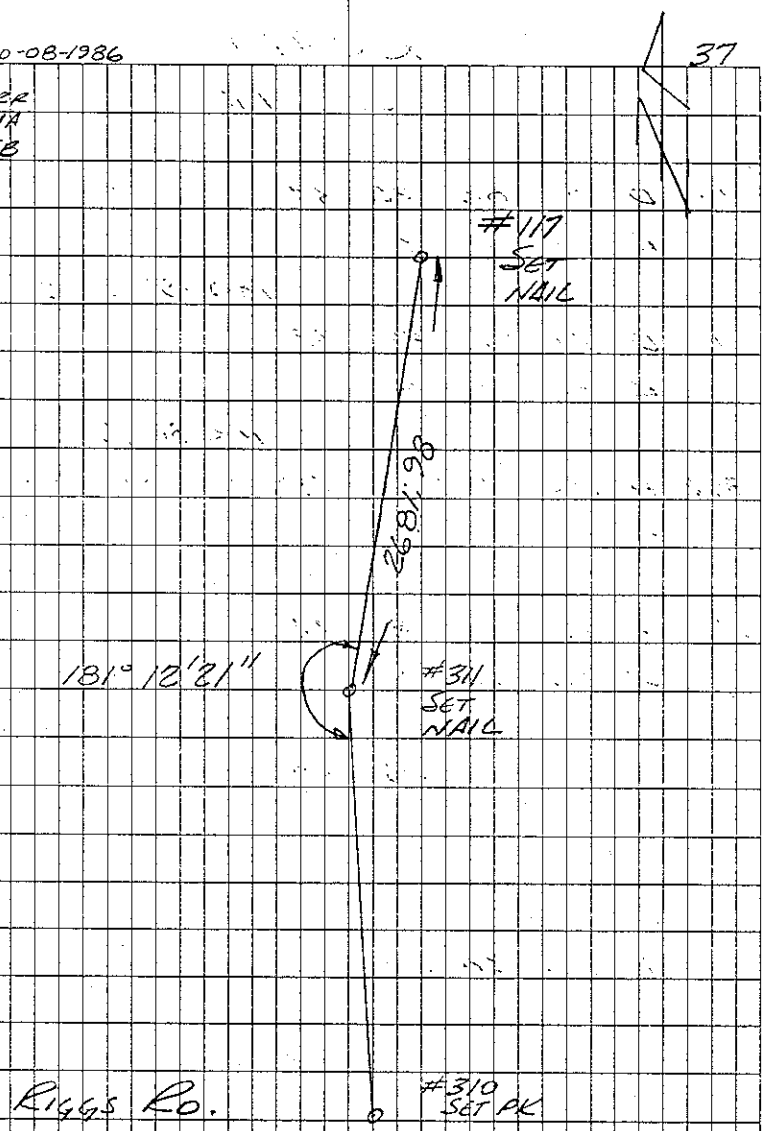
SD 2681.98

HD 2681.98

M 817.47

10-08-1986

RR
MA
JB



K @ #117

SET H.&T.

1)

311	D	0	00	36	34
	R	180	00	32	

M♯ 89°50'59"

118	D	89	51	32	33
	R	269	51	34	

M♯ 180°19'07"

312	D	180	19	30	41
	R	0	19	52	

2)

311	R	225	15	36	22
	D	45	15	08	

M♯ 89°51'08"

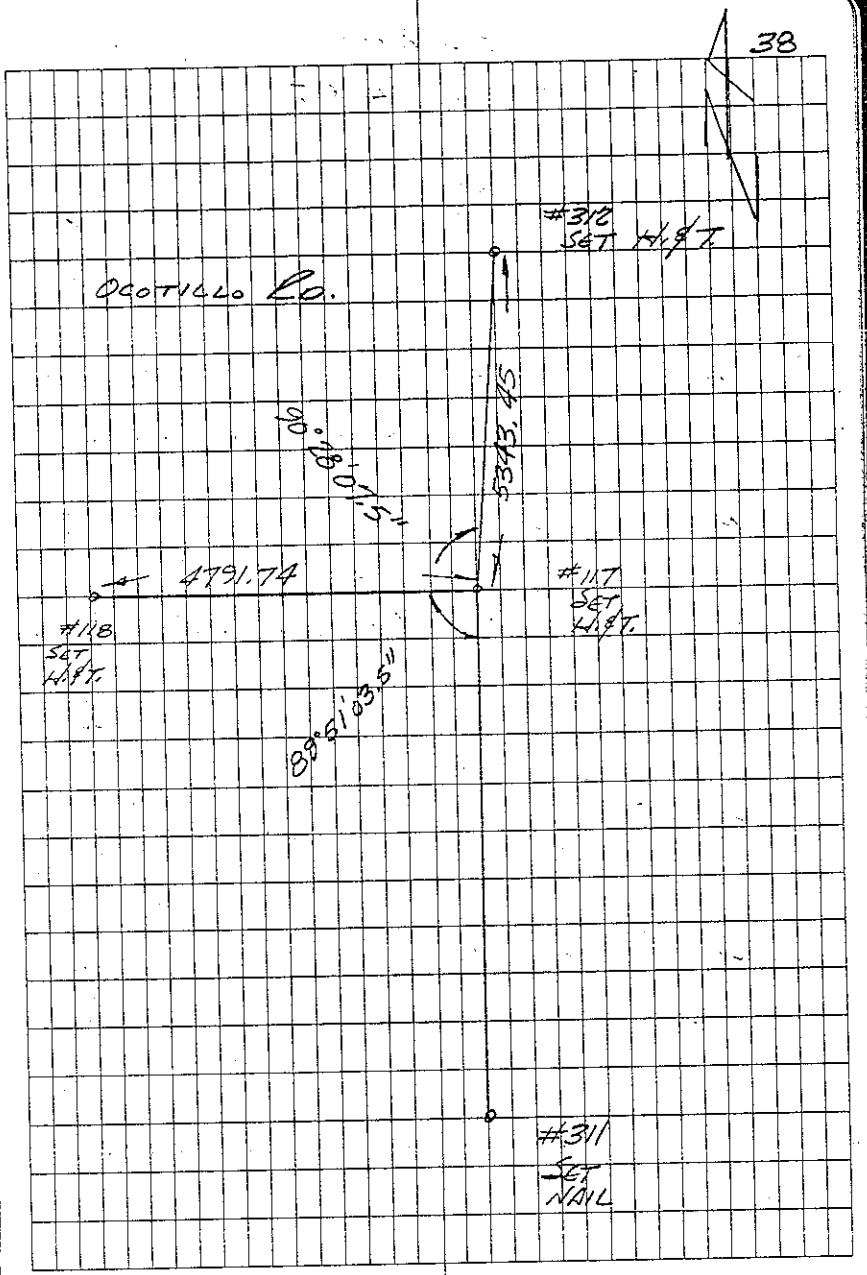
118	R	315	06	48	30
	D	135	06	12	

M♯ 180°19'15"

312	R	45	35	00	37
	D	225	34	14	

M♯ 89°51'03.5"

M♯ 180°19'11"



℄ @ #117

Set H. & T.

℄ to #118

D 90 11 22

SD 4791.78

HD 4791.74

M 1460.53

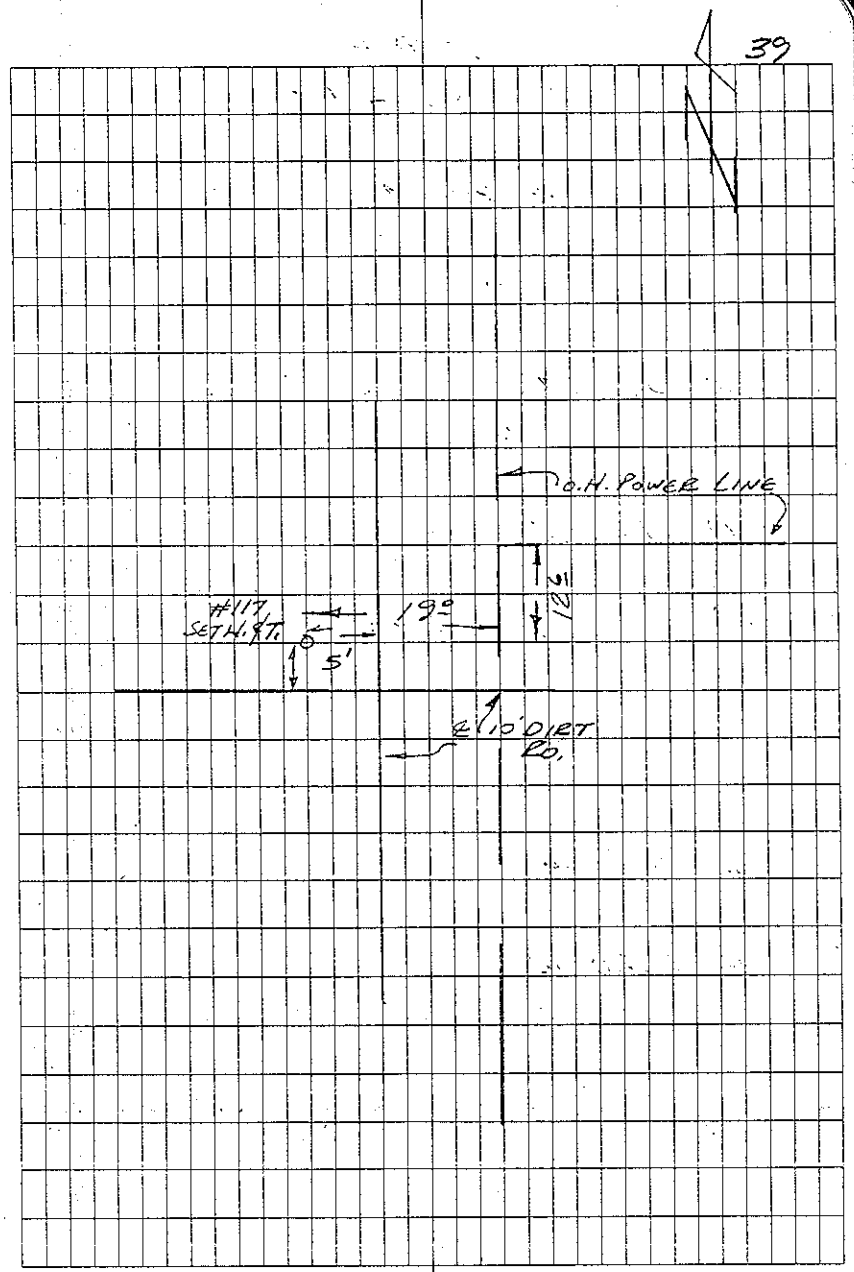
℄ to #312

D 90 02 46

SD 5343.45

HD 5343.45

M 1628.69



π @ #312
SET H.&T.

1)

117	D	0	00	30	40
	R	180	00	50	

M∡179° 54' 08"

119	D	179	54	38	48
	R	359	54	58	

M∡179° 54' 08.5"

2)

117	R	225	15	36	20
	D	45	15	04	

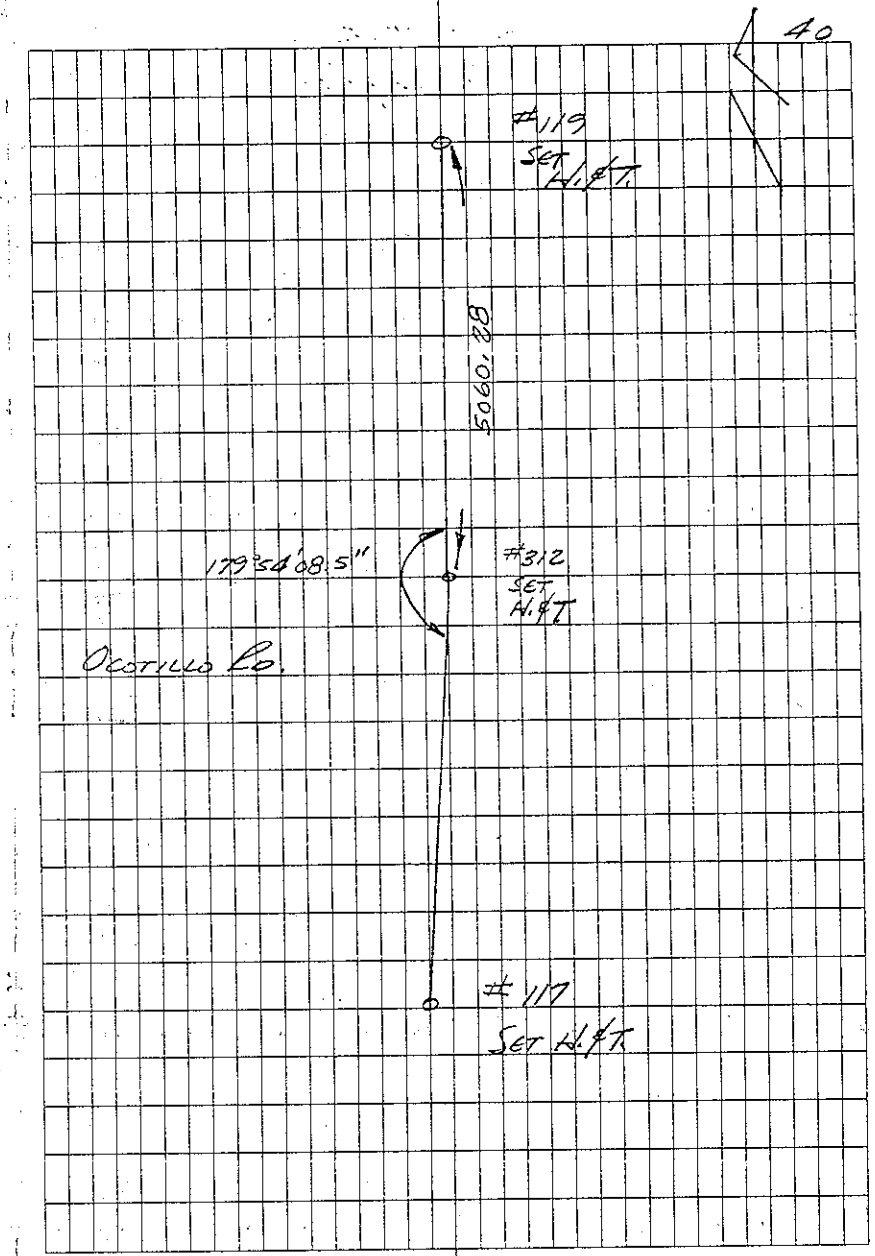
M∡179° 54' 09"

119	R	45	09	36	29
	D	225	09	22	

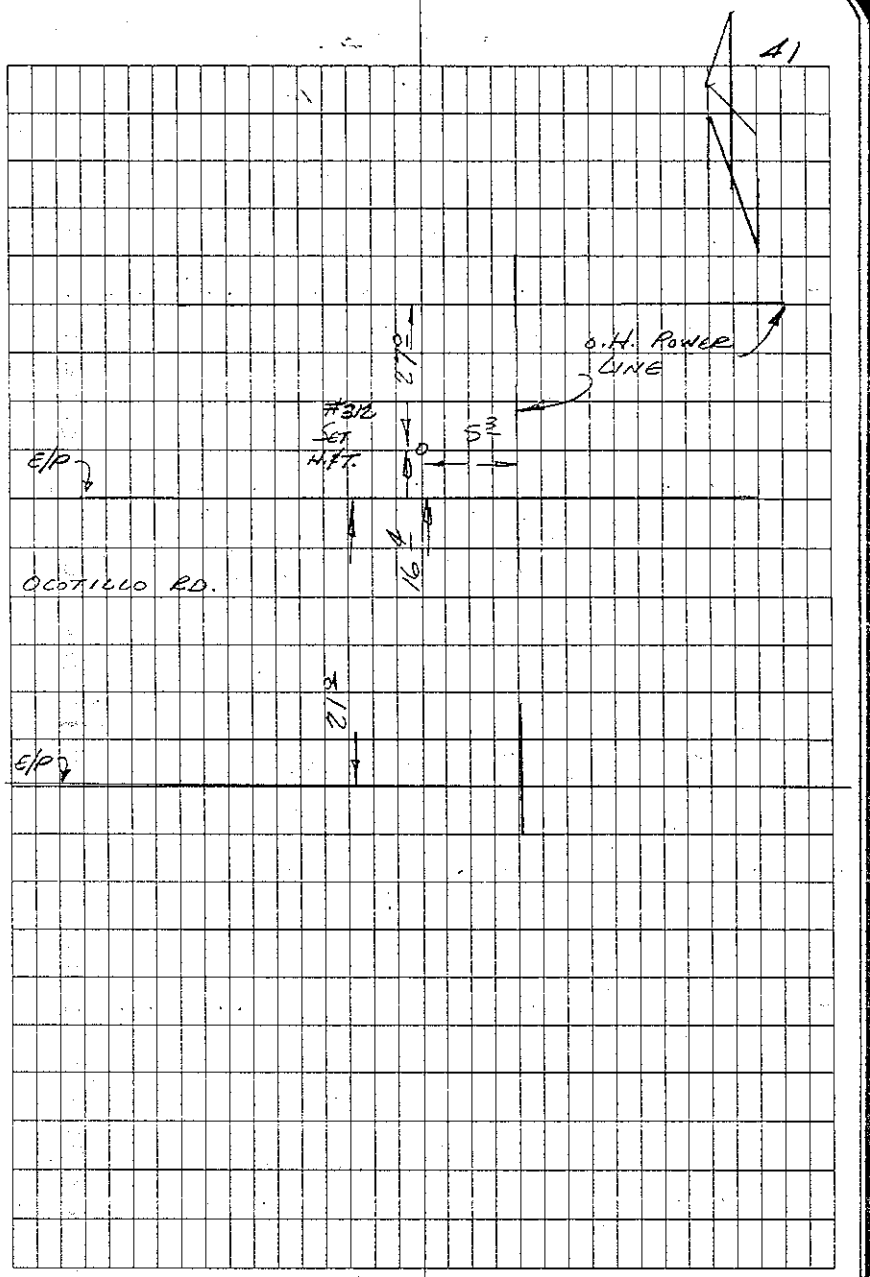
Z∡ TO #119

	D	90	04	24

SD	5060.30
HD	5060.28
M	1542.37



T @ #312
Set H.H.T.



T @ #119

SET H.&T.

1)

312 D 0 00 30 48

R 180 01 06

M ∡ 90°29'22"

120 D 90 29 54 70

R 270 30 26

M ∡ 90° 29' 34"

2) 312 R 225 15 42 27

D 45 15 12

M ∡ 90° 29' 46"

120 R 315 45 26 13

D 135 45 00

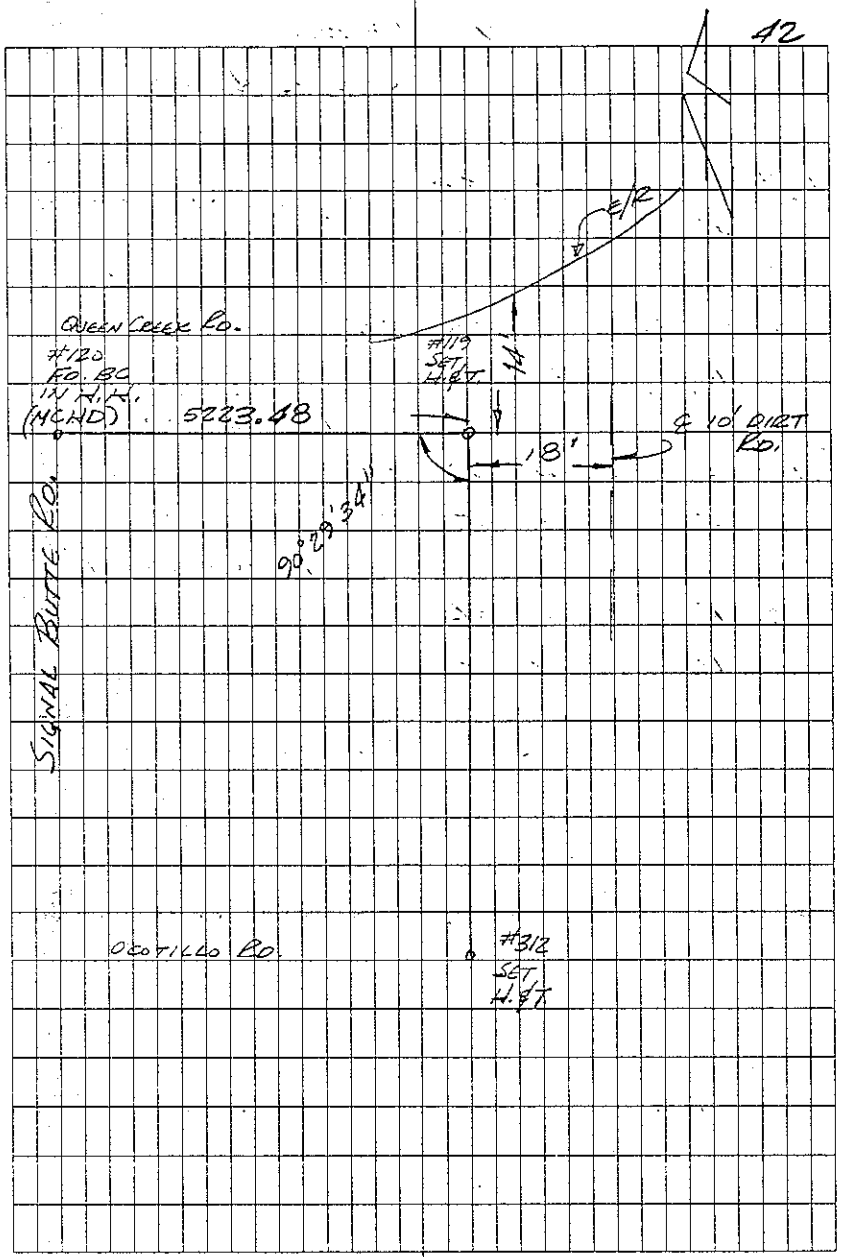
E ∡ to #120

D 90 12 26

SD 5223.52

HD 5223.48

M 1592.13



K @ #120

FD. BC IN H.H.

1) 119 D 0 00 42 51

R 180 01 02

M∠ 180° 08' 11"

121 D 180 08 40 62

R 0 09 24

M∠ 180° 08' 06"

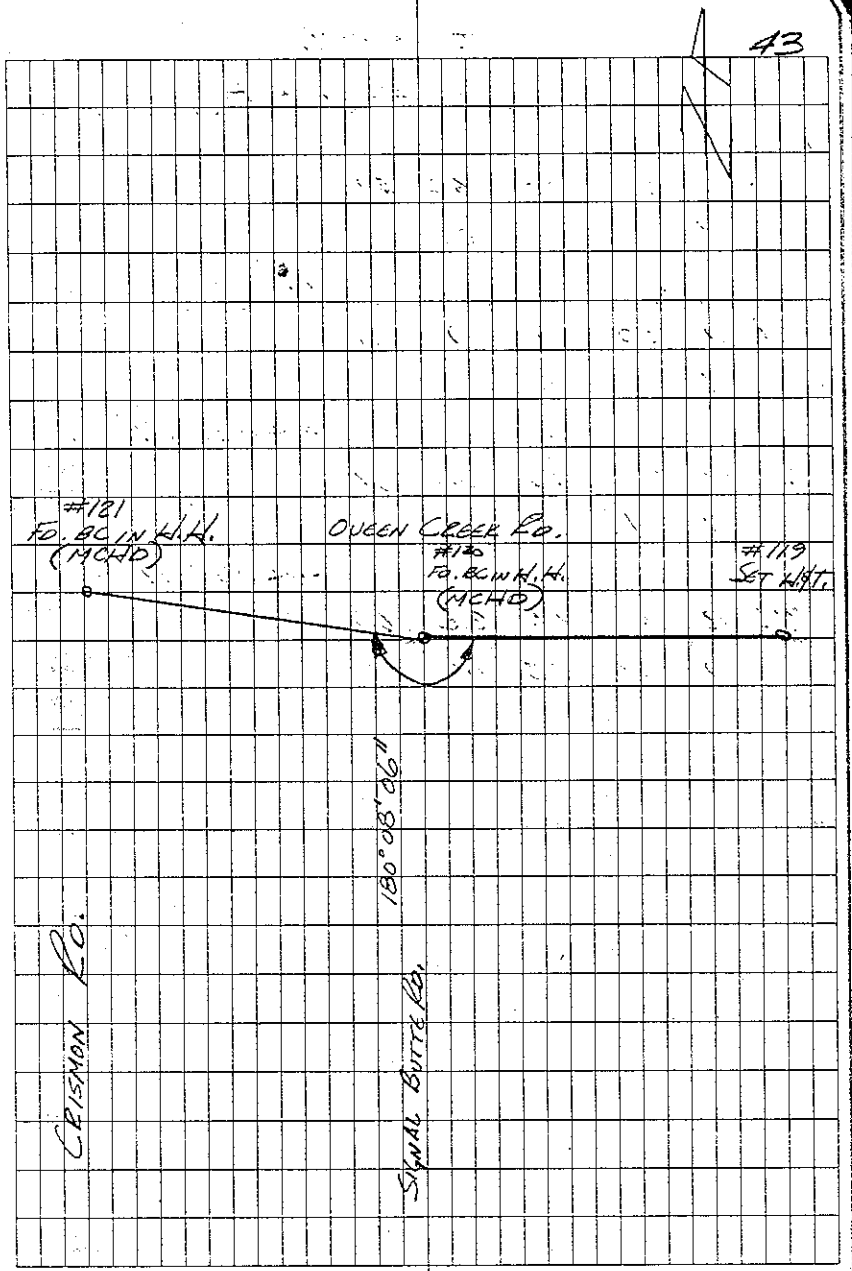
2) 119 R 225 15 30 34

D 45 15 38

M∠ 180° 08' 01"

121 R 45 23 52 35

D 225 23 18



⊼ @#121

FD. BC IN H.H.

1)

120	D	0	00	30	48
	R	180	01	06	

M∡180°07'57"

122	D	180	08	40	45
	R	0	08	50	

M∡180°07'55.5"

2)

120	R	225	15	36	22
	D	45	15	08	

M∡180°07'54"

122	R	45	23	28	16
	D	225	23	04	

Z∡ To #120

D 89 47 46

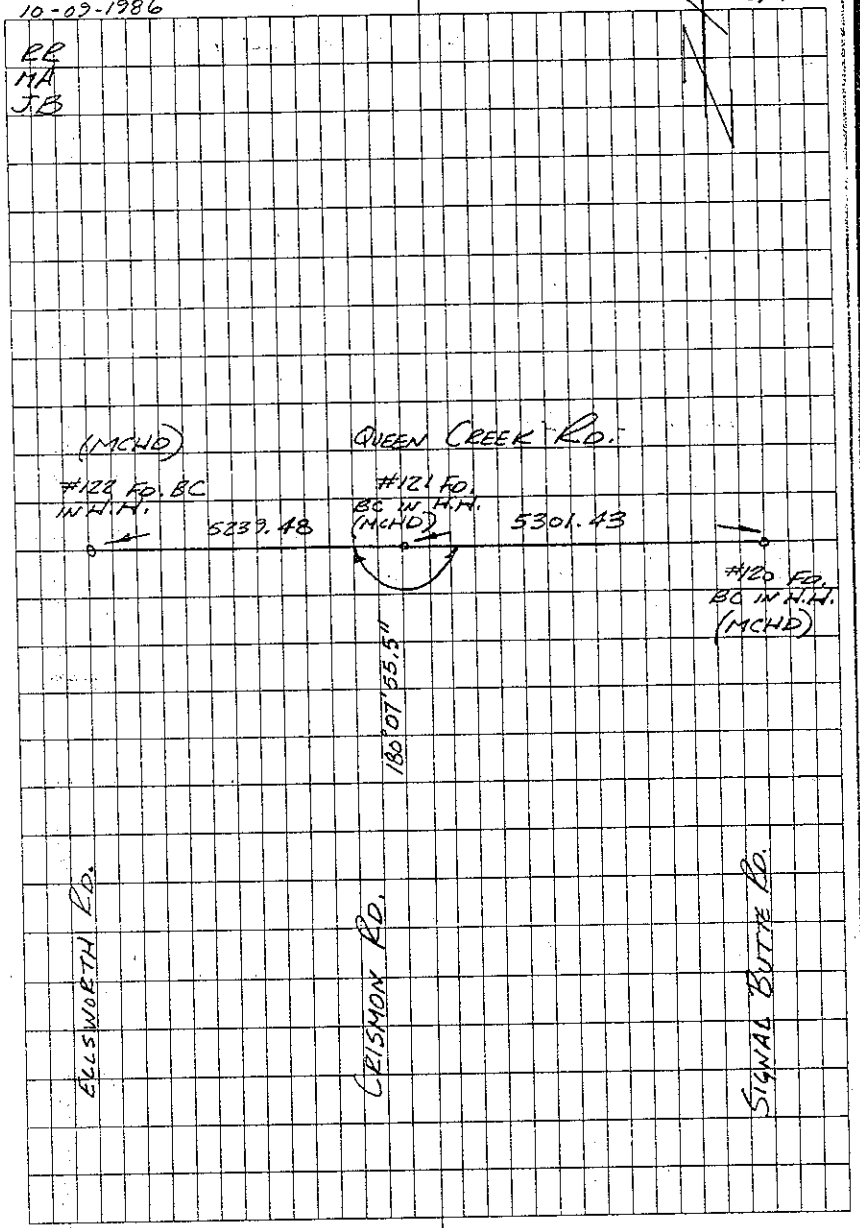
SD 5301.46

HD 5301.43

M 1615.89

10-09-1986

RR
MA
JB



T @#121
FD. BC IN H.H.

ZT to #122

D 90 11 56

SD 5239.51
HD 5239.48

M 1597.01

T @ #122

Fd. BC IN H.H.

1)

121	D	0	00	42	53
	R	180	01	04	

M = 178° 33' 51"

123	D	178	34	30	44
	R	358	34	58	

M = 178° 33' 54.5"

2)

121	R	225	15	36	24
	D	45	15	12	

M = 178° 33' 58"

123	R	43	49	36	22
	D	223	49	08	

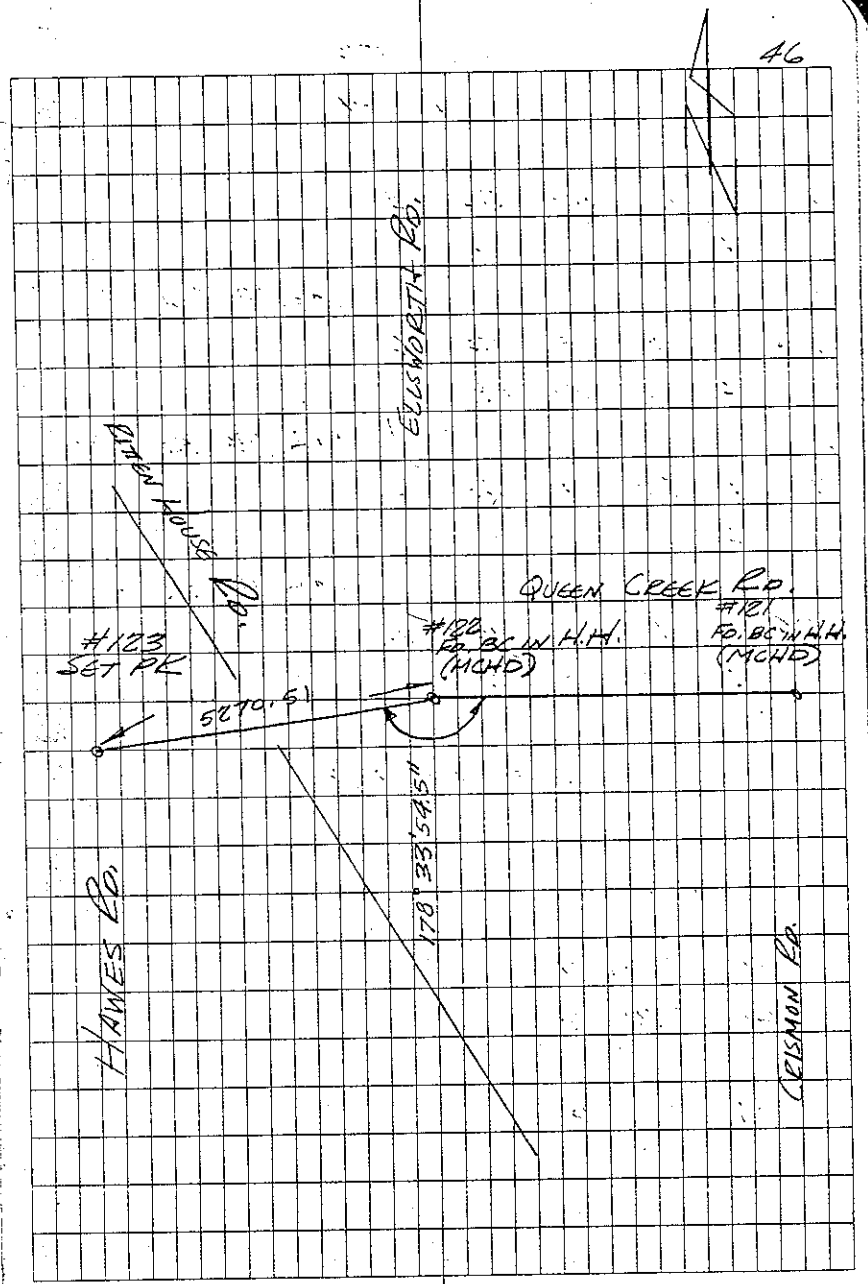
T @ To #123

D 90 10 32

SD 5270.54

HD 5270.51

M 1606.46



℄ @ #123

SET PK

D

122 D 0 00 30 42

R 180 00 54

M ∡ 183°50' 20"

124 D 183 50 56 62

R 03 51 08

M ∡ 183°50'29.5"

2)

122 R 225 15 42 21

D 45 15 00

M ∡ 183°50'39"

124 R 49 06 12 60

D 229 05 48

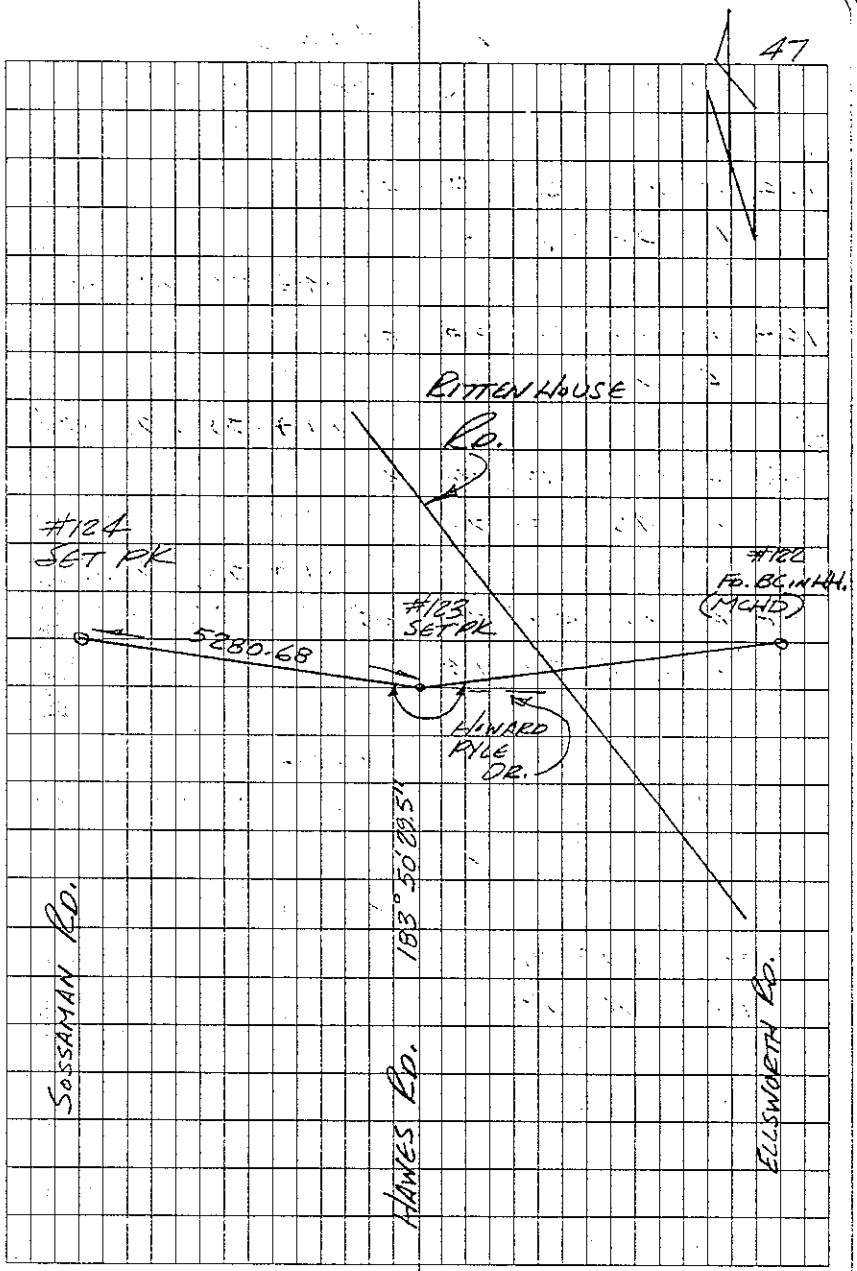
℄ ∡ TO #124

D 90 11 46

SD 5280.70

HD 5280.68

M 1609.57



T @ #124

SET PK

1)

123	D	0	00	42	51
	R	180	01	00	

M∡179° 42' 00"

125	D	179	42	34	51
	R	359	43	08	

M∡179° 42' 02"

2)

123	R	225	15	36	31
	D	45	15	26	

M∡179° 42' 04"

125	R	44	57	56	35
	D	224	57	14	

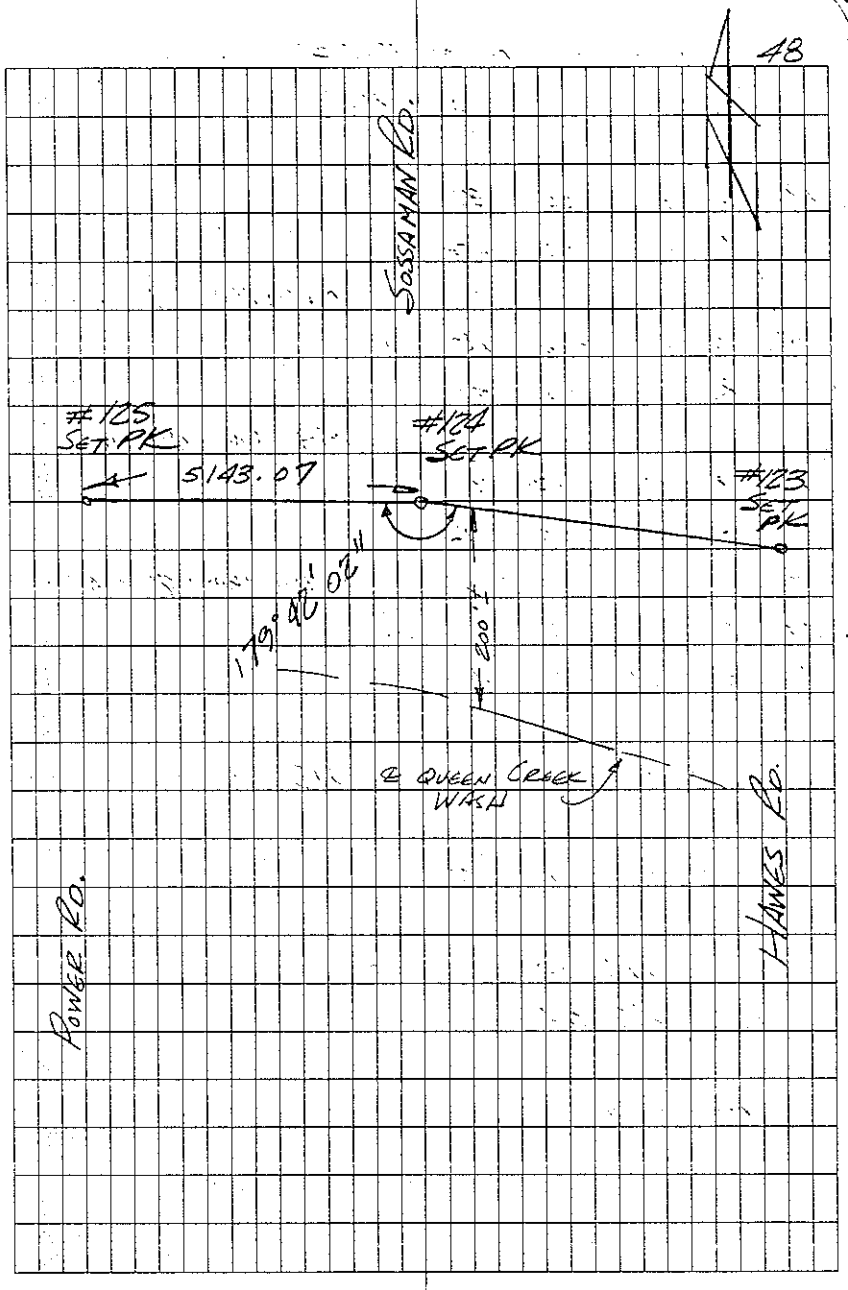
℄∡ TO #125

	D	90	07	06

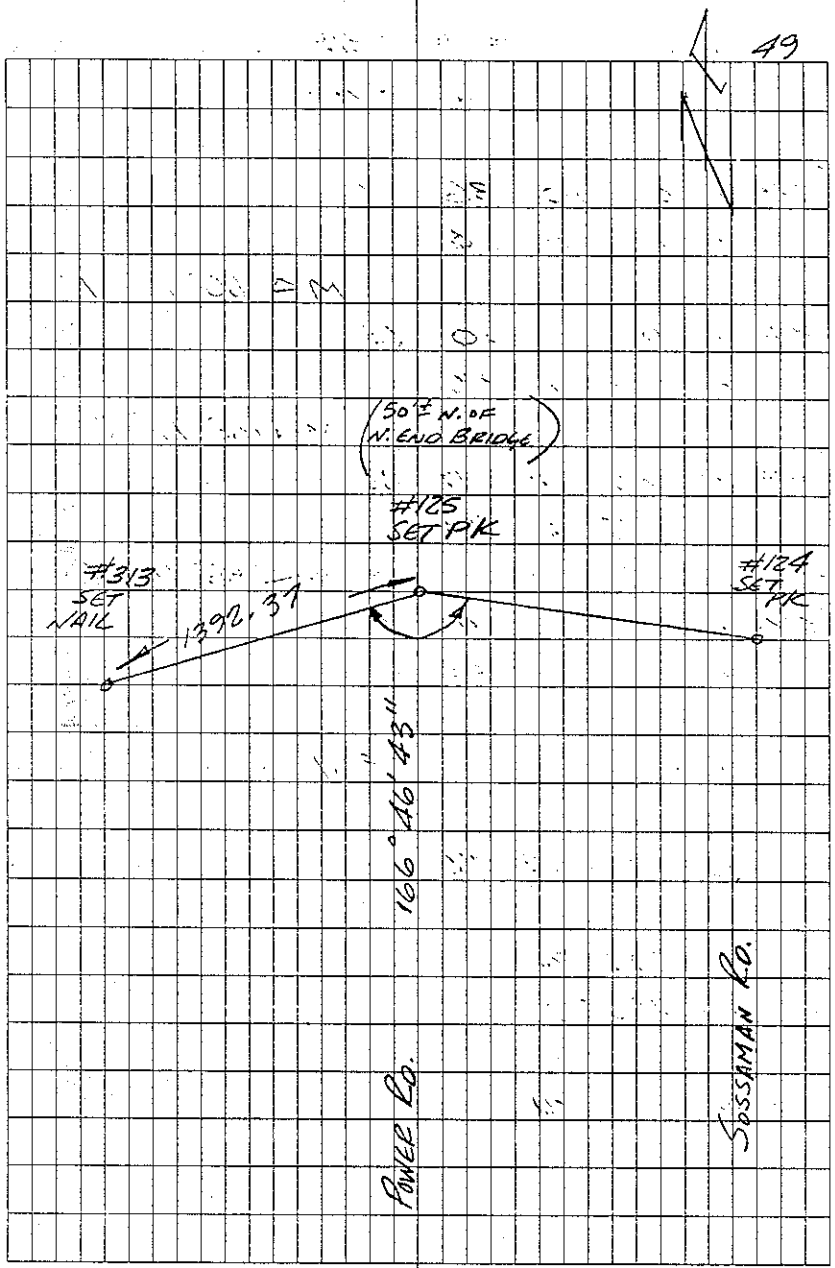
SD 5143.10

HD 5143.07

M 1567.61



			x @ #125		
			Set PK		
D					
124	D	0	00	36	47
	R	180	00	58	
				M∠	166° 46' 46"
313	D	166	47	18	33
	R	346	47	48	
				M∠	166° 46' 43"
2)					
124	R	225	15	30	18
	D	45	15	06	
				M∠	166° 46' 40"
313	R	32	02	08	58
	D	212	61	48	
			E∠ to	#313	
	D	90	15	38	
	SD	1392.38			
	HD	1392.37			
	M	424.40			



T @ #313

SET NAIL

1)

125	D	0	00	36 45
	R	180	00	54

M ∢ 188° 11' 21"

314	D	188	11	50 66
	R	08	12	22

2) M ∢ 188° 11' 26.5"

125	R	225	15	42 30
	D	45	15	18

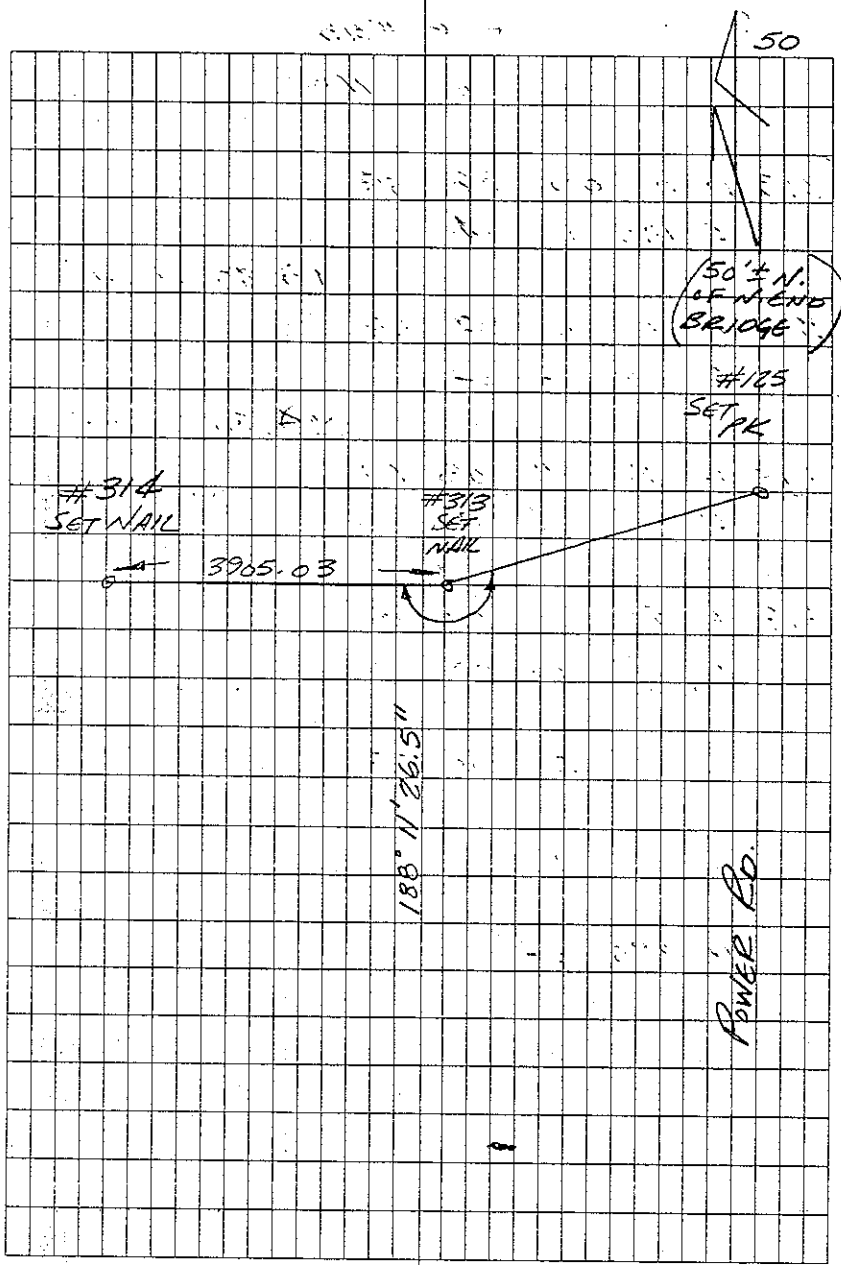
M ∢ 188° 11' 32"

314	R	53	27	10 62
	D	233	26	54

Z ∢ To #314

	D	90	07	42

SD	3905.04
HD	3905.03
M	1190.76



T @ #314

SET NAIL

1)

313	D	0	00	42	58
	R	180	01	14	

M∡130°52'40"

126	D	130	53	22	38
	R	310	53	54	

M∡180°21'03"

315	D	180	22	08	61
	R	0	21	54	

2)

313	R	225	15	30	15
	D	45	15	00	

M∡130°52'40"

126	R	356	08	00	55
	D	176	07	50	

M∡180°20'56"

315	R	45	36	16	11
	D	225	36	06	

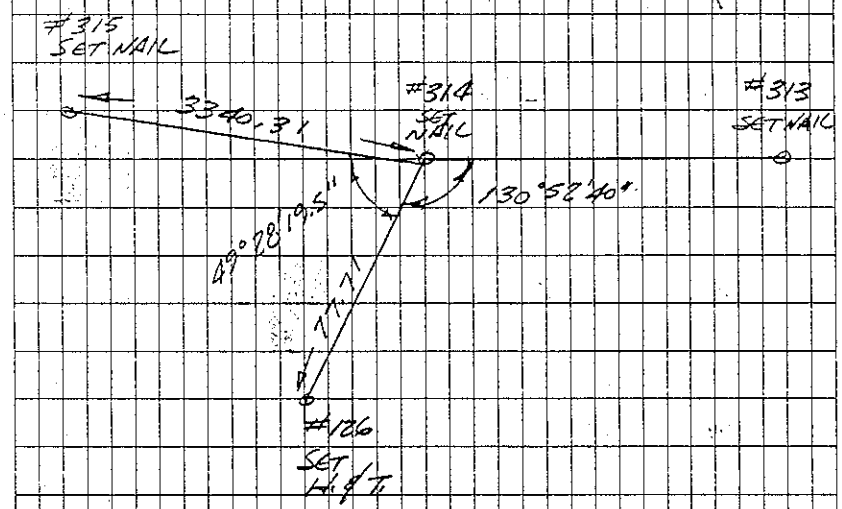
M∡130°52'40"

M∡180°20'59.5"

10-09-1986

51

RR
MA
JB



K @ #314
SET NAIL

E & To #315

D 90 08 34

SD 3340.34
HD 3340.31

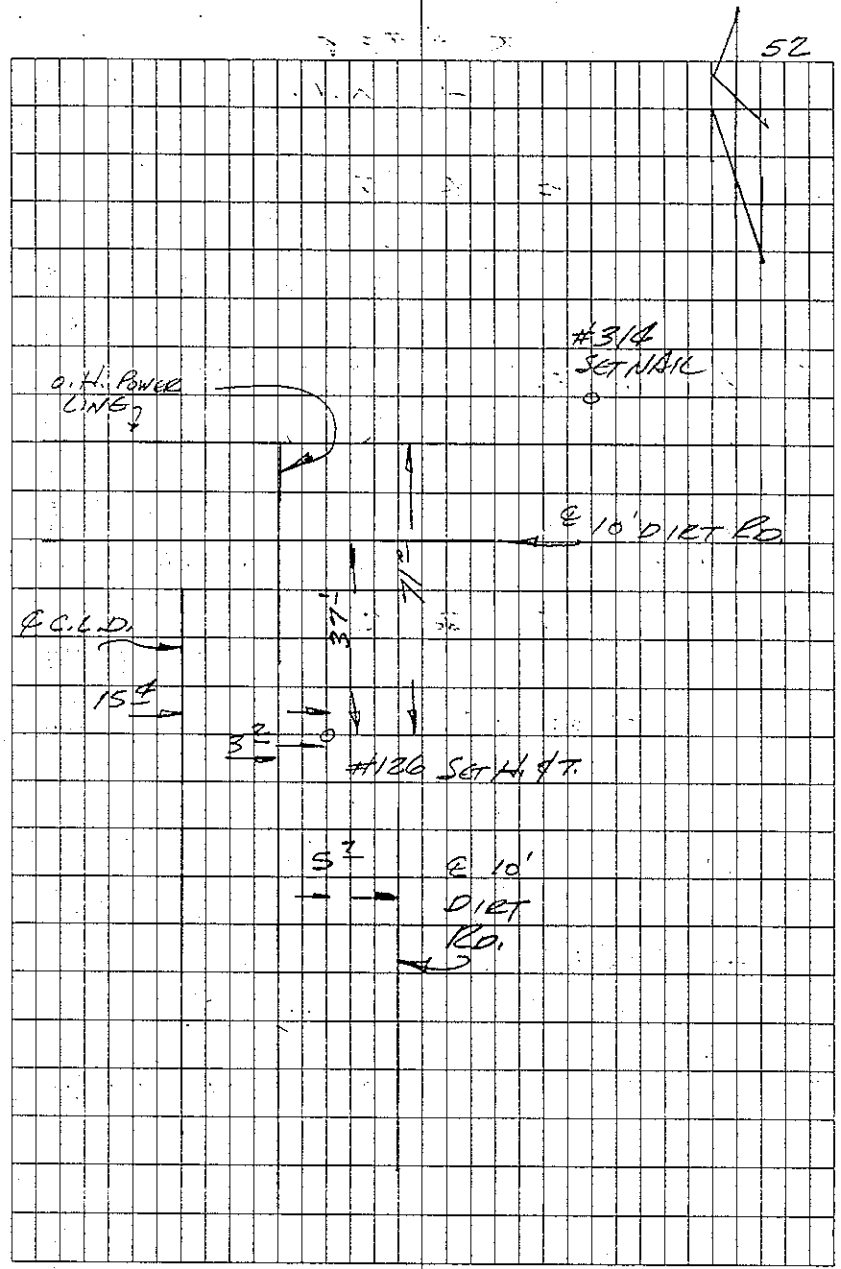
M 1018.13

E & To #126

D 97 09 12

SD 78.33
HD 77.71

M 23.87



T @ #315

SET NAIL

1) 314 D 0 00 36 47

E 180 00 58

M ∡ 186° 29' 50"

100 D 186 30 24 37

E 06 30 50

M ∡ 186° 29' 51.5"

2) 314 E 225 15 42 29

D 45 15 16

M ∡ 186° 29' 53"

100 E 51 45 36 22

D 231 45 08

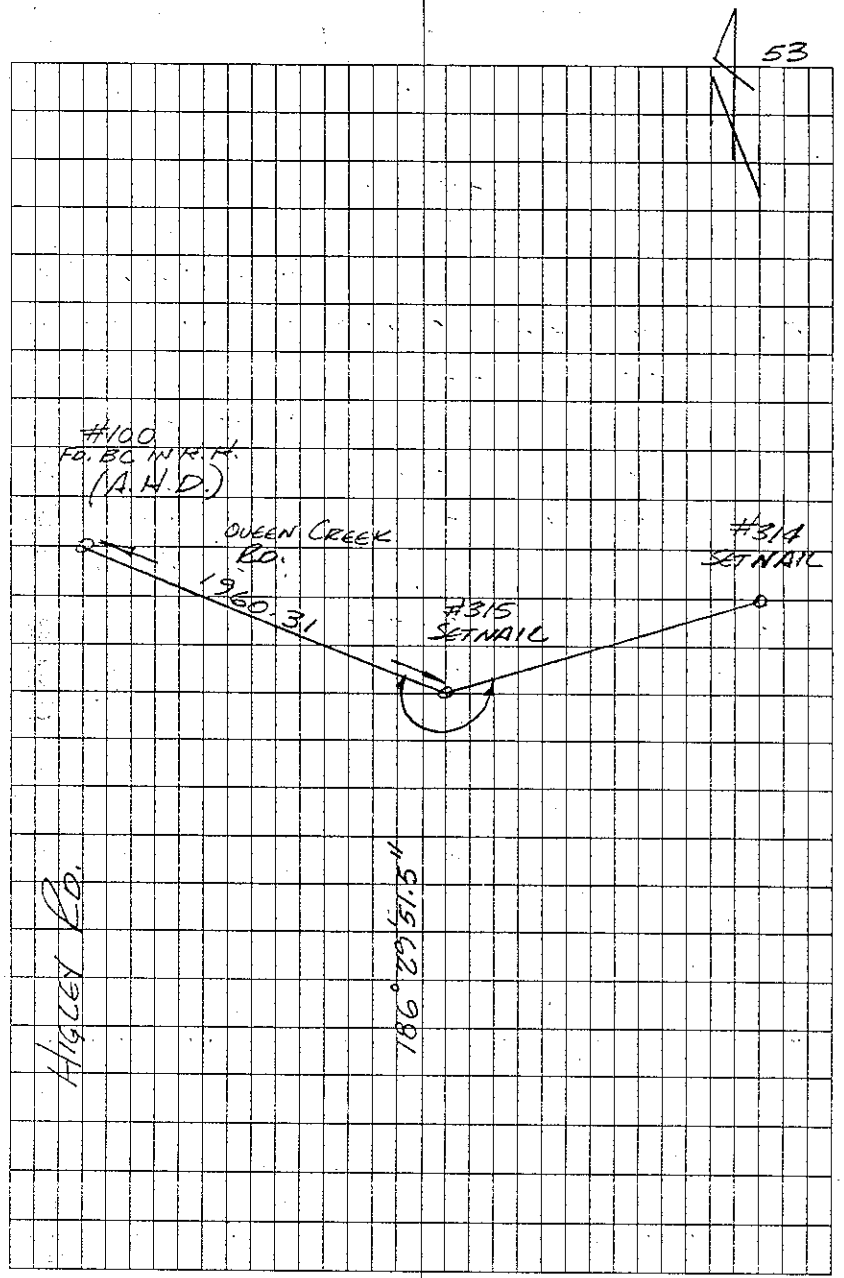
½ ∡ To #100

D 90 00 54

SD 1960.36

HD 1960.31

M 597.51



T @ #100

Fo. BC in H.H.

1)

315	D	0	00	30	43
	R	180	00	56	

M∡175° 37' 35"

101	D	175	38	04	18
	R	355	38	32	

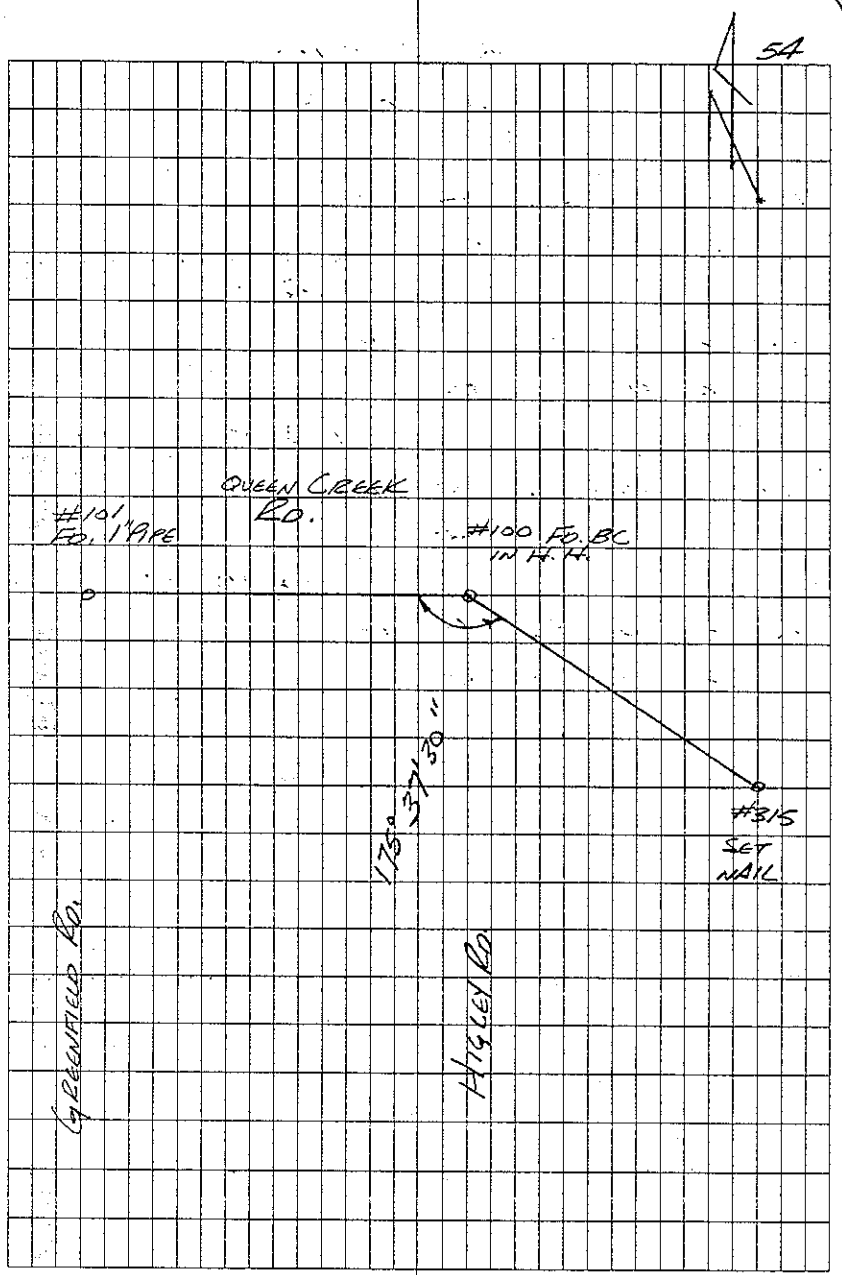
M∡175° 37' 30"

2)

315	R	225	15	42	50
	D	45	15	08	

M∡175° 37' 25"

101	R	40	53	44	25
	D	220	53	06	



RR 10-13-1986
JB

T @ #118
SET H.&T.

1)

117	D	0	00	34	50
	E	180	01	06	

M = 180° 49' 46"

316	D	180	50	24	36
	R	0	50	48	

M = 180° 49' 49"

2)

117	R	225	15	40	22
	D	45	15	04	

M = 180° 49' 52"

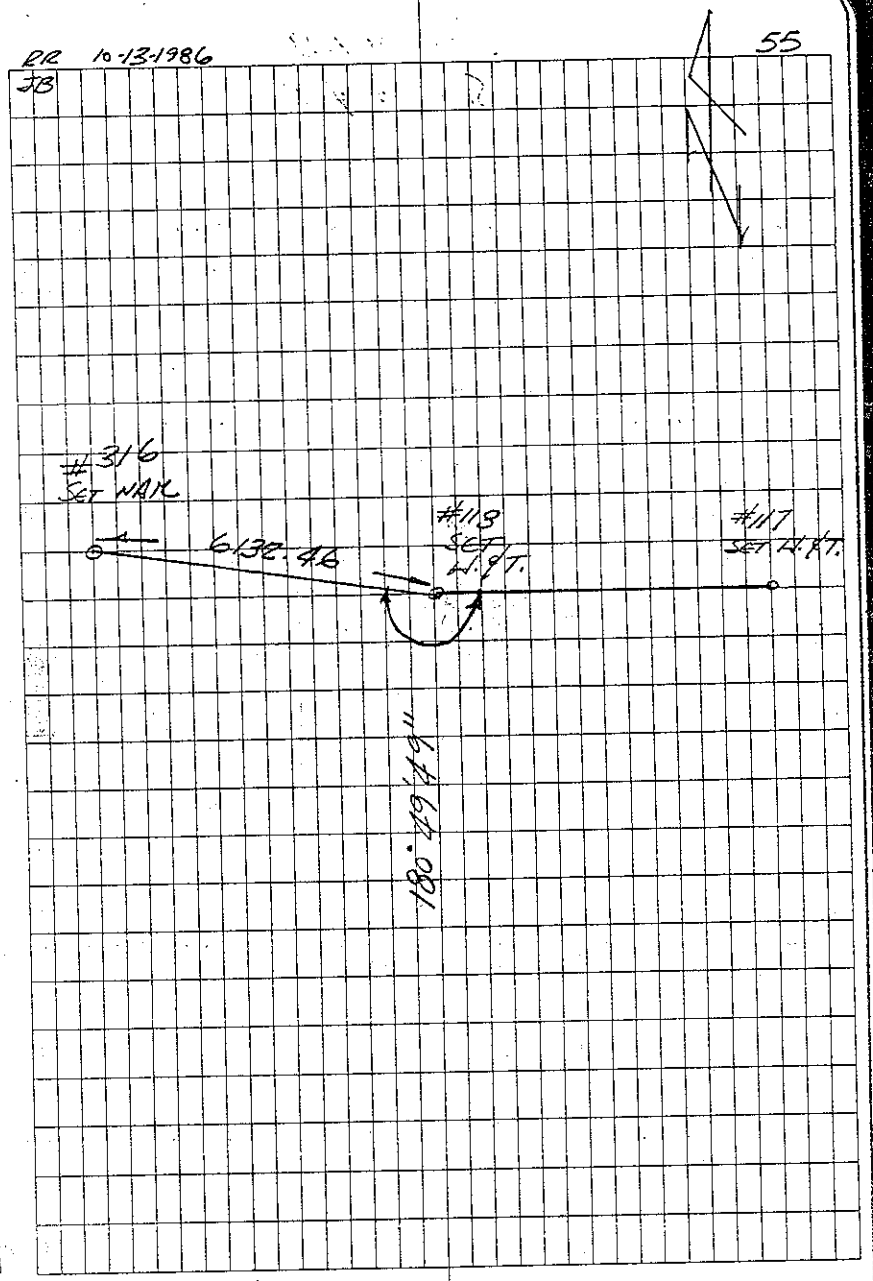
316	R	46	05	24	14
	D	226	05	04	

Z = to #316

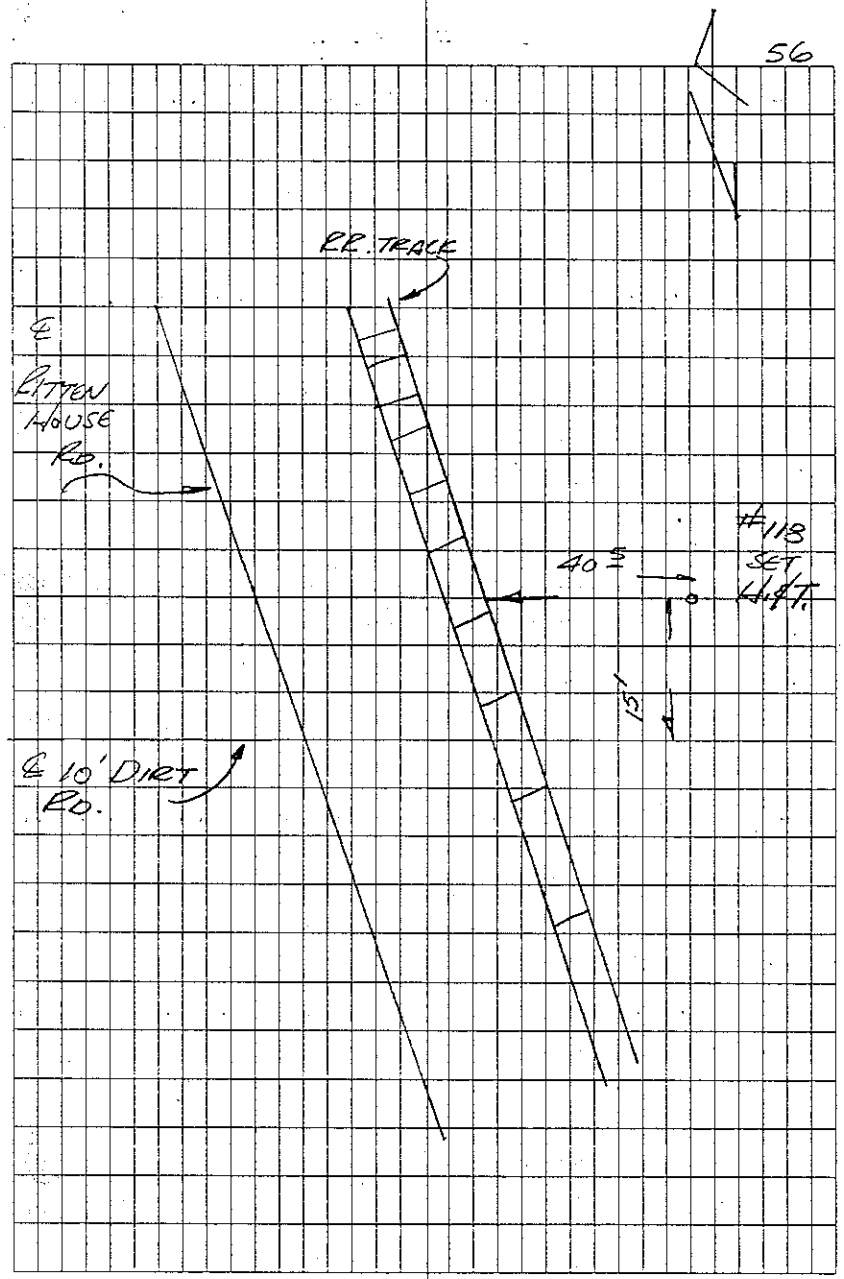
	D	90	12	42	

SD 6132.50
HD 6132.46

M 1869.19



π @ #118
Set H.P.T.



⊼ @ #316

SET NAIL

1)

118 D 0 00 30 48

R 180 01 06

M∡ 07° 45' 09"

126 D 07 45 36 57

R 187 46 18

M∡ 179° 14' 27"

127 D 179 14 56 75

R 359 15 34

2)

118 R 225 15 38 77

D 45 14 56

M∡ 07° 45' 17"

126 R 233 00 54 34

D 53 00 14

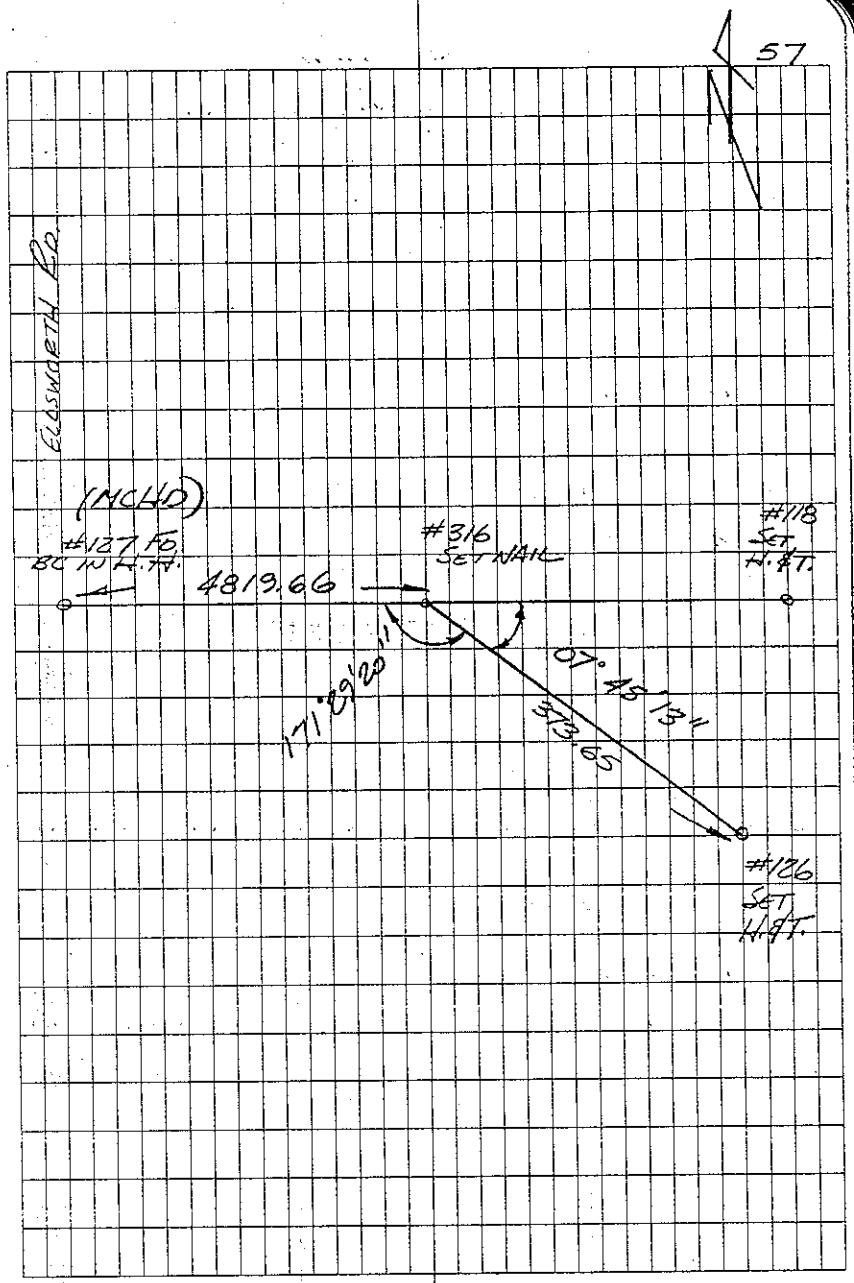
M∡ 179° 14' 39"

127 R 44 30 04 56

D 224 29 48

M∡ 07° 45' 13"

M∡ 179° 14' 33"



K @ #316
SET NAIL

℄ ∡ TO #126

D 90 31 38

SD 373.69
HD 373.65

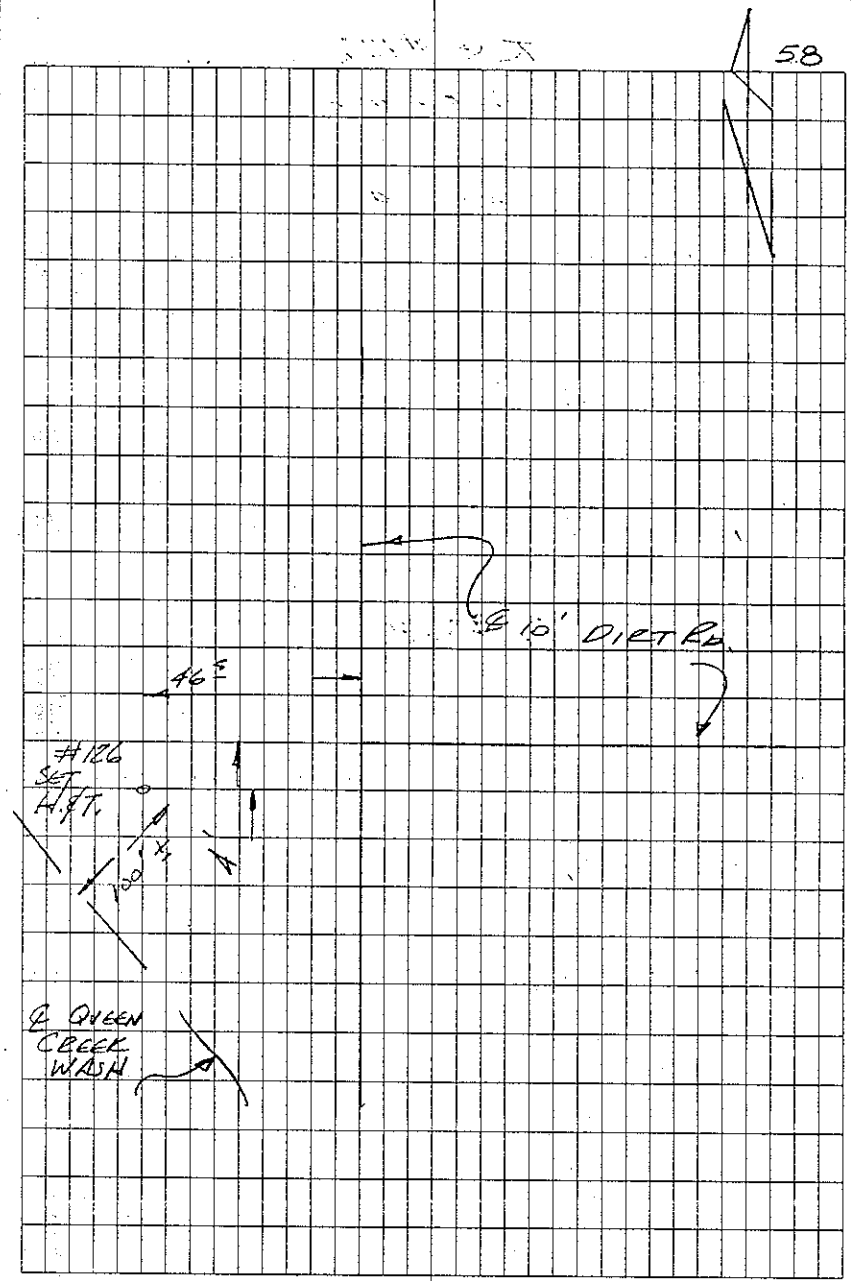
M 113.89

℄ ∡ TO #127

D 90 13 48

SD 4819.69
HD 4819.66

M 1469.05



K @ #127
Fd. BC in H.H.

1)
316 D 0 00 30 44
R 180 00 58
M = 180° 31' 58"

128 D 180 32 26 42
R 0 32 58
M = 180° 32' 05"

2)
316 R 225 15 34 17
D 45 15 00
M = 180° 32' 12"

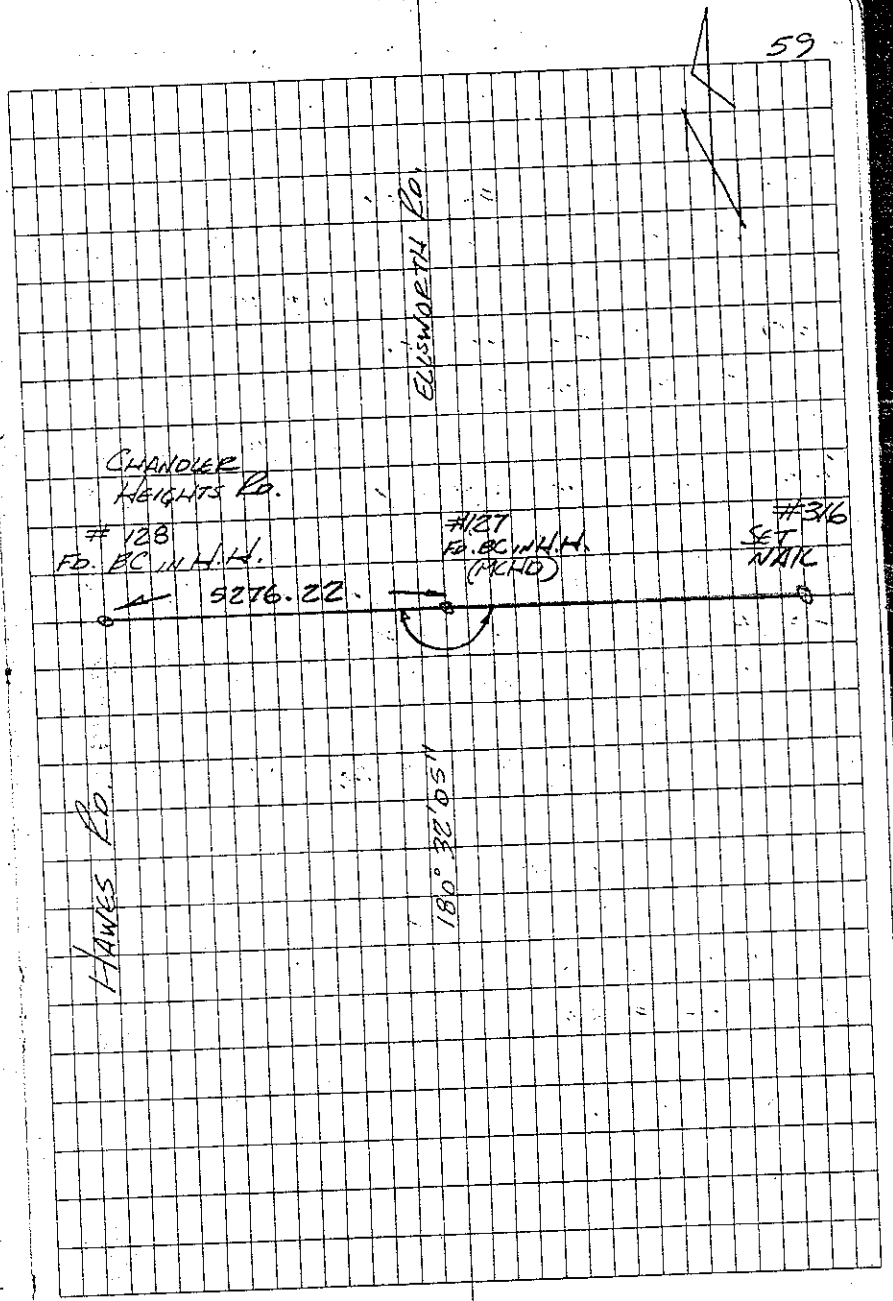
128 R 45 47 48 29
D 225 47 10

Z = to #128

D 90 11 30

SD 5276.25
HD 5276.22

M 1608.20



⊼ @ #128

FO. BC IN H.H.

1)

127	D	0	00	30	53
	R	180	01	16	

M∢179°57'58"

129	D	179	58	36	51
	R	359	59	06	

M∢179°57'59.5"

2)

127	R	225	15	36	22
	D	45	15	08	

M∢179°58'01"

129	R	45	13	34	23
	D	225	13	12	

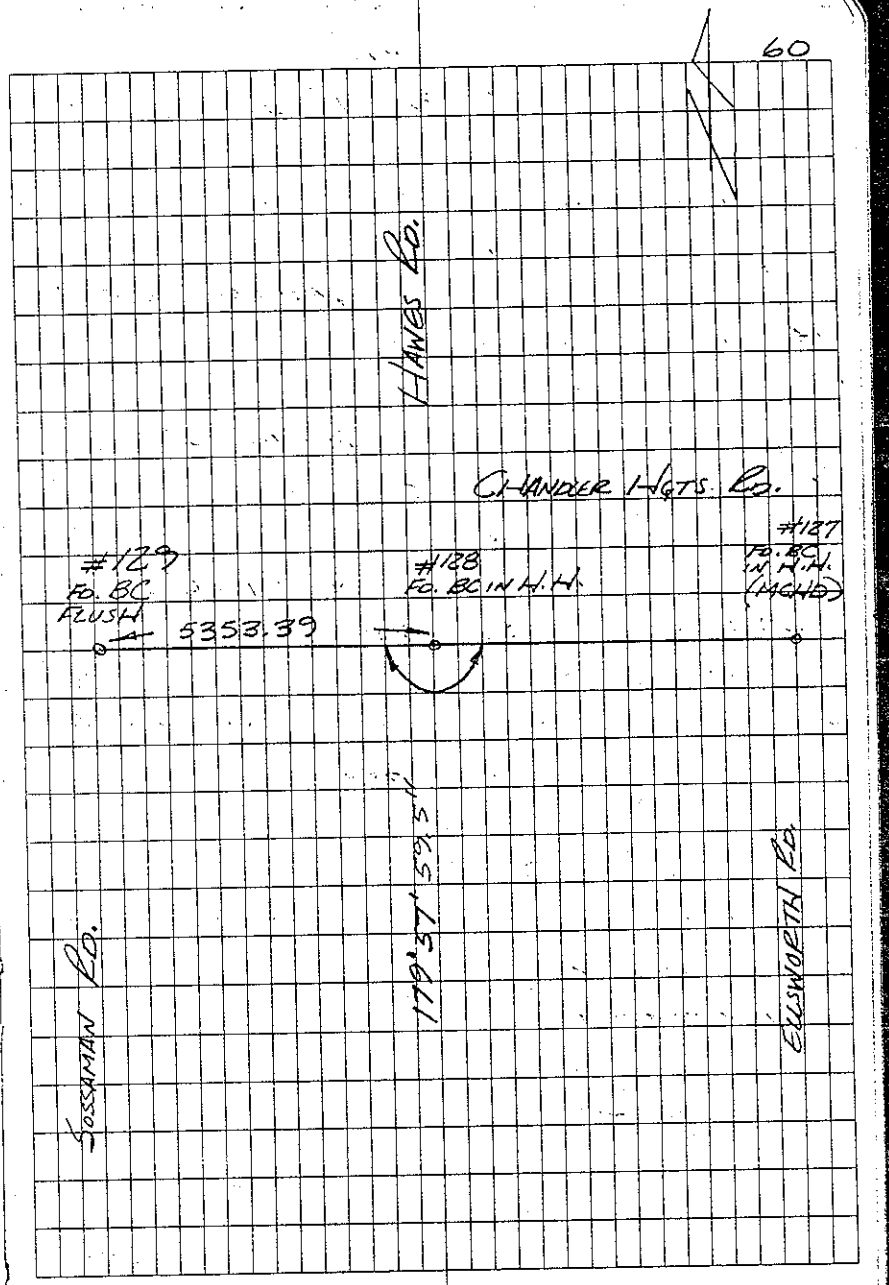
Z∢ TO #129

D	90	11	42

SD 5353.45

HD 5353.39

M 1631.72



T @ #129

Fd. BC FLUSH

4

128 D 0 00 38 55

R 180 01 12

M∠ 181°45'52"

130 D 181 46 38 47

R 01 46 56

M∠ 181°45'59"

3

128 R 225 15 40 30

D 45 15 20

M∠ 181°46'06"

130 R 47 01 54 36

D 227 01 18

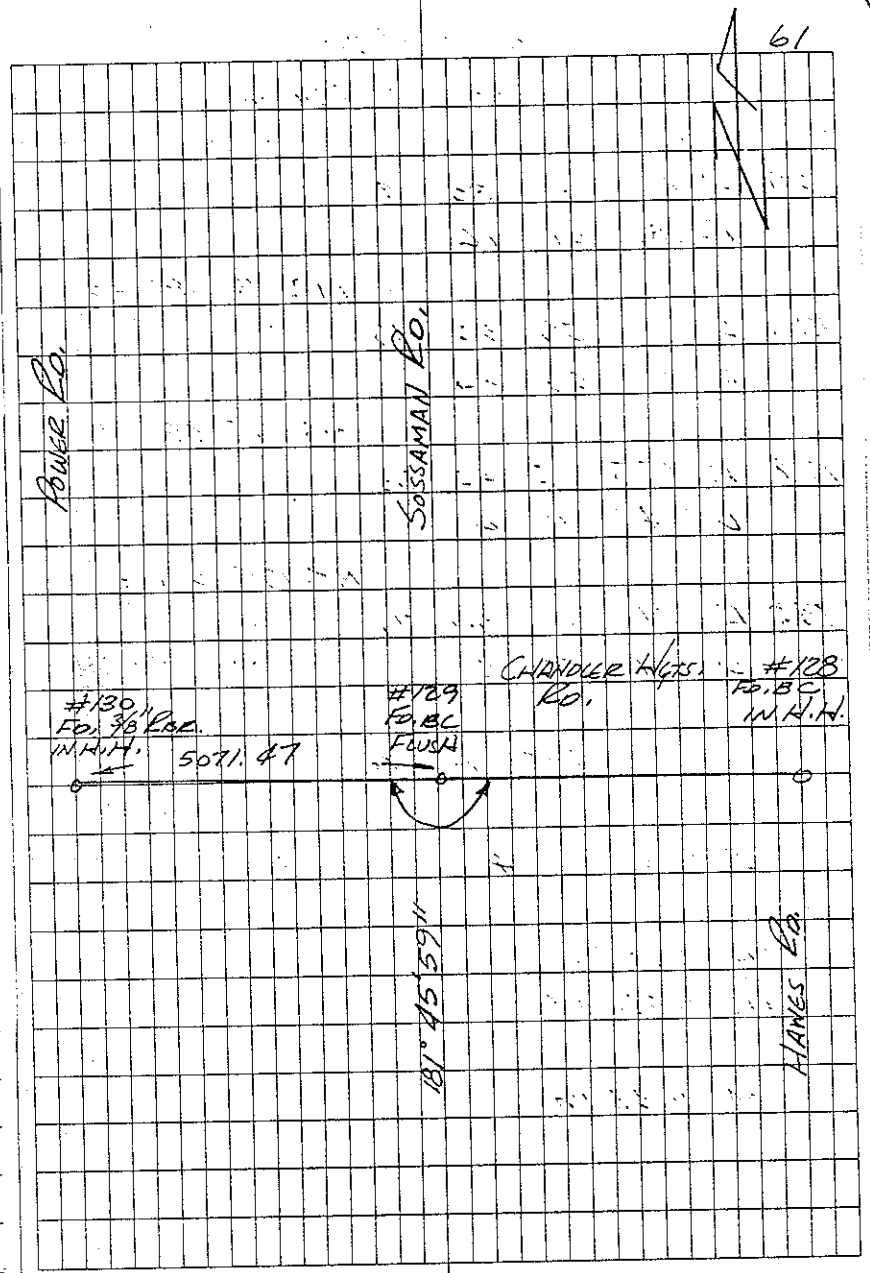
ℰ∠ to #130

D 90 11 54

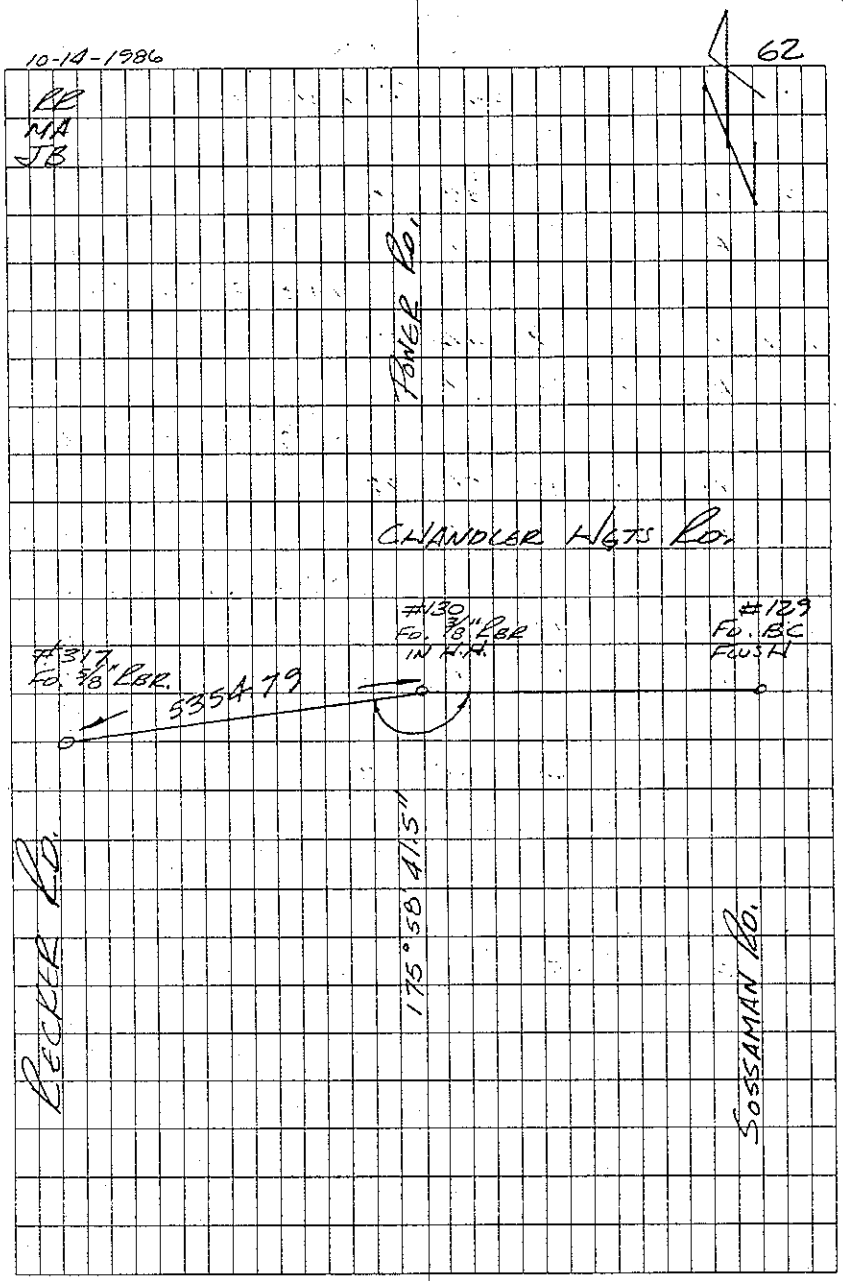
SD 5071.50

HD 5071.47

M 1545.80



			x @	#130	
			Fo.	3/8" RBR IN H.H.	
1)					
129	D	0	00	30	48
	R	180	01	06	
					M 175° 58' 45"
317	D	175	59	22	33
	R	355	59	44	
2)					M 175° 58' 41.5"
129	R	225	15	42	33
	D	45	15	24	
					M 175° 58' 38"
317	R	41	14	30	71
	D	221	13	52	
			~~27~~ To	#317	
	D	90	14	40	
	SD	5354.83			
	HD	5354.79			
	M	1632.16			



x @ #317

Fd. 5/8" CBR

1)

130	D	0	00	42	52
	R	180	01	02	

M ∡ 182° 24' 07"

104	D	182	24	44	59
	R	02	25	14	

M ∡ 271° 00' 20"

131	D	271	01	06	22
	R	91	01	38	

2)

130	R	225	15	30	17
	D	45	15	04	

M ∡ 182° 24' 36"

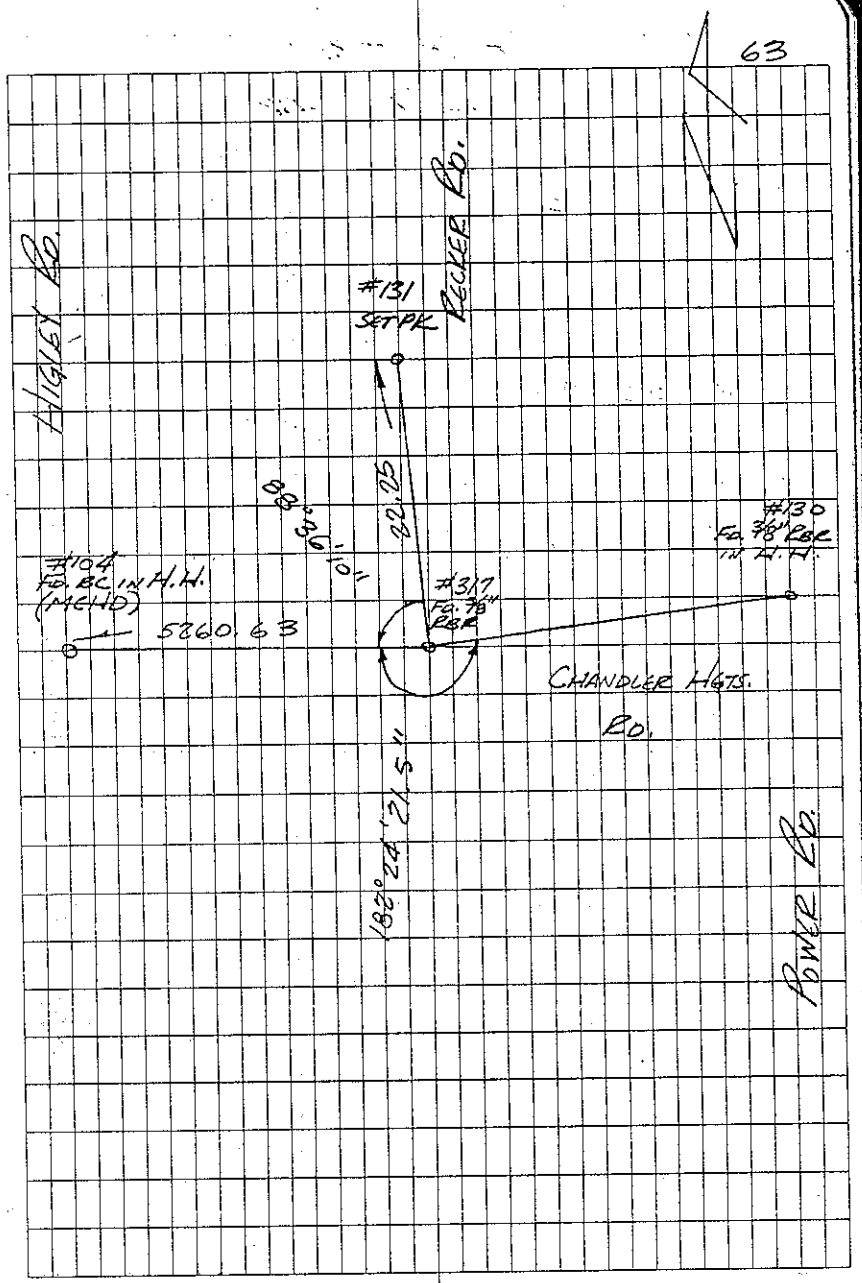
104	R	47	40	08	53
	D	227	39	38	

M ∡ 271° 00' 41"

131	R	136	16	08	58
	D	316	15	48	

M ∡ 182° 24' 21.5"

M ∡ 271° 00' 31.5"



π @ #317
Fo. 5/8" RBR.

℄ ∡ To #104

D 90 10 02

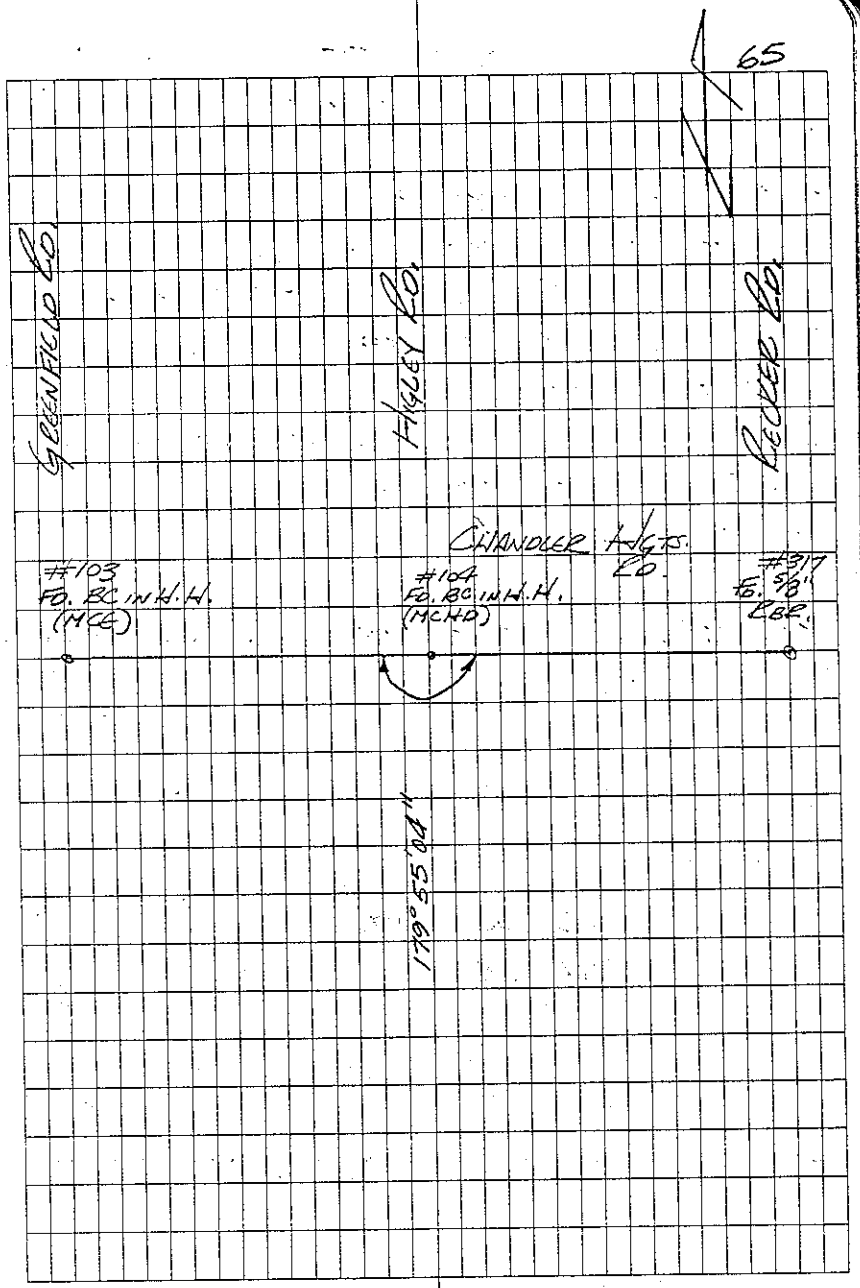
SD 5260.66
HD 5260.63

M 1603.45

T @ #104

Fd. BC IN H.H.

1)						
317	D	0	00	36	51	
	R	180	01	06		
						M = 179°55'15"
103	D	179	56	20	66	
	R	359	55	52		
						M = 179°55'04"
2) 317	R	225	15	30	67	
	D	45	14	44		
						M = 179°54'53"
103	R	45	10	02	60	
	D	225	09	58		



T @ #305

SET NAIL

1)

304 D 0 00 30 50

R 180 01 10

M ∠ 90° 06' 59"

900 D 90 07 34 49

R 270 08 04

M ∠ 179° 56' 16"

306 D 179 56 52 66

R 359 57 20

2)

304 R 225 15 38 28

D 45 15 18

M ∠ 90° 07' 00"

900 R 315 22 44 28

D 135 22 12

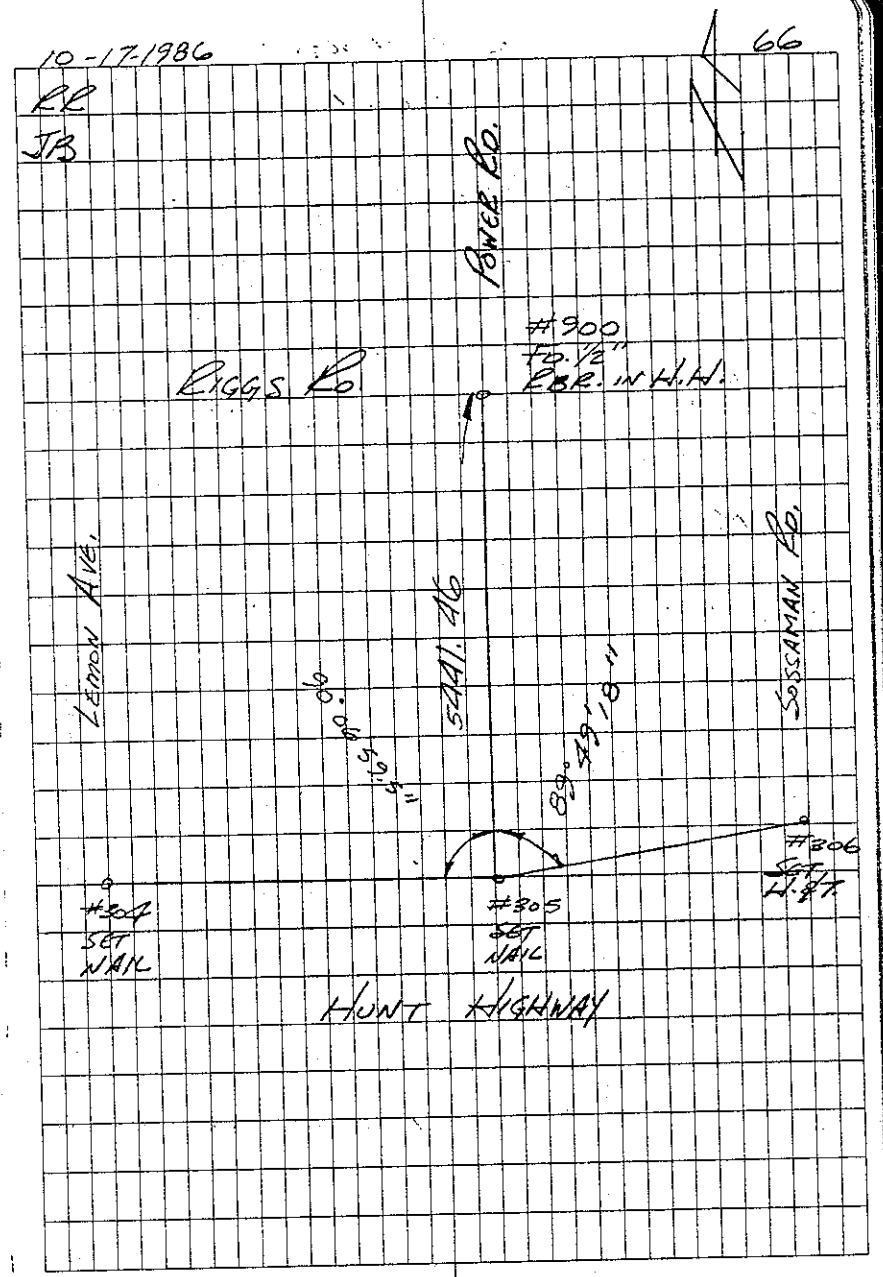
M ∠ 179° 56' 19"

306 R 45 12 00 47

D 225 11 34

M ∠ 90° 06' 59.5"

M ∠ 179° 56' 17.5"



TC #305

SET NAIL

EQ TO #900

.0 90 39 00

SD 5441.79

HD 5441.46

M 1658.67

T @ #900

Fd. 1/2" RBR IN H.H.

1)

305 D 0 00 28 54

R 130 01 20

M∠180°03'49"

130 D 130 04 36 43

R 0 04 50

M∠180°03'43"

2)

305 R 225 15 36 69

D 45 14 42

M∠180°03'37"

130 R 45 18 50 46

D 225 13 42

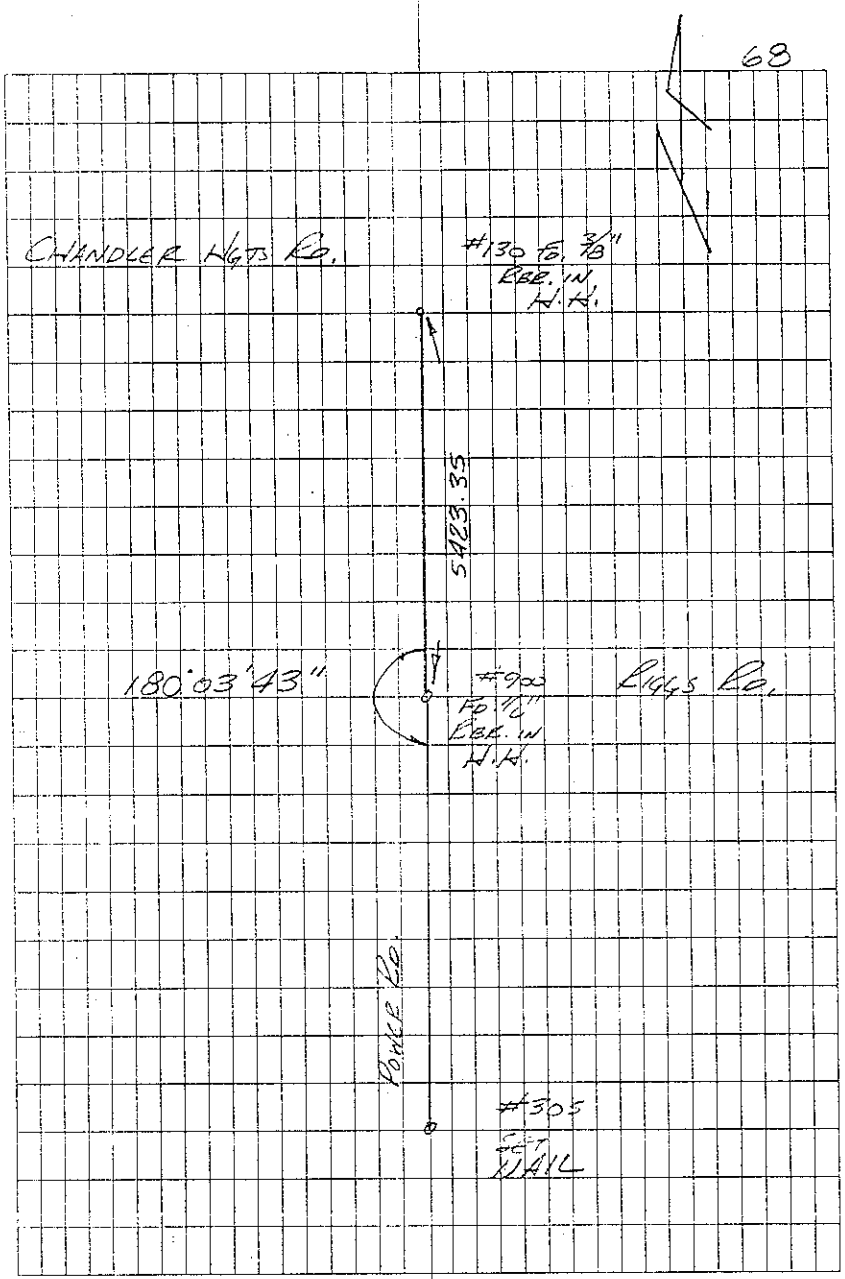
E∠ To #130

D 90 21 56

SD 5423.47

FD 5423.35

M 1653.07



π @ #130
Fo. 3/8" RBR. IN H.H.

1)

129	D	0	00	26	55
	R	130	01	24	

M∡ 88° 31' 16"

900	D	88	31	52	71
	R	268	32	30	

M∡ 175° 58' 51"

317	D	175	59	34	46
	R	355	59	58	

2)

129	R	225	15	40	23
	D	45	15	06	

M∡ 88° 31' 38"

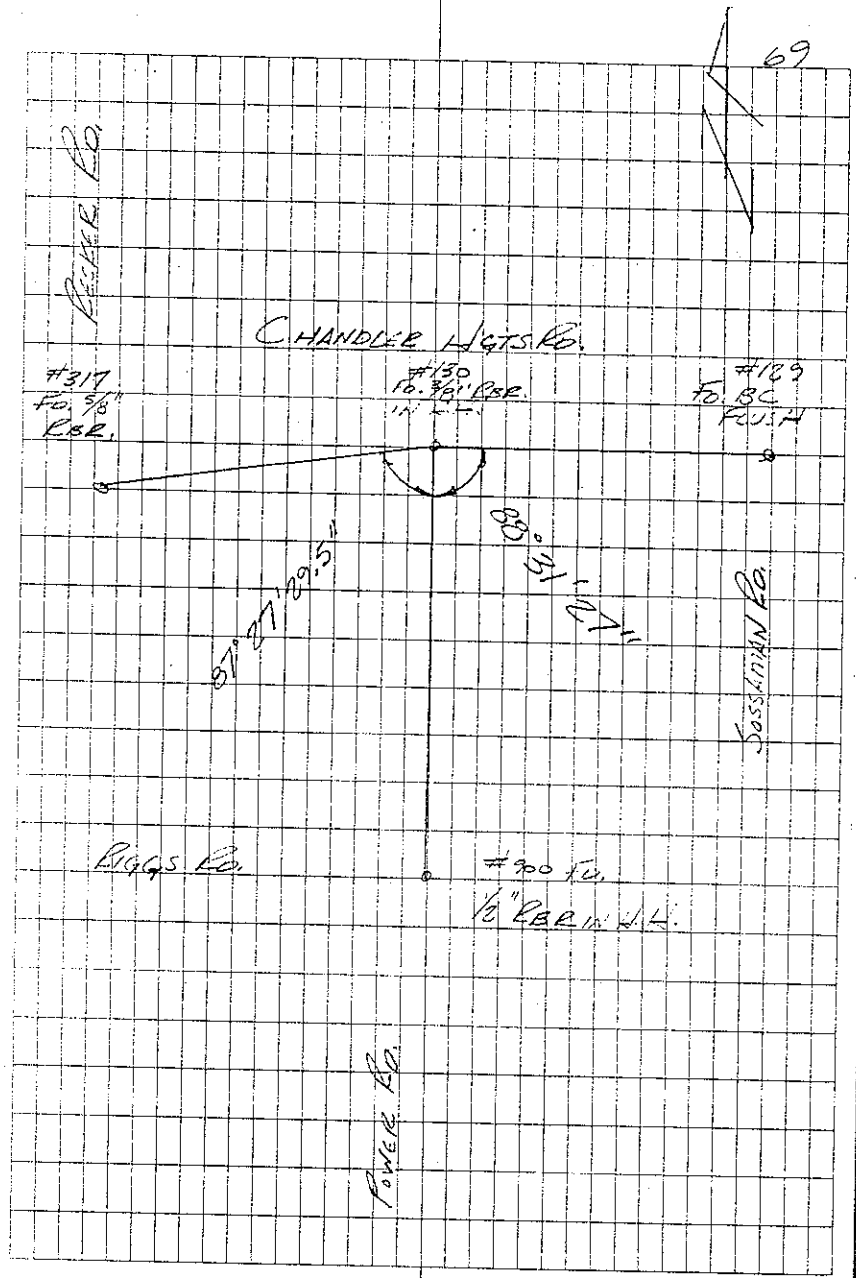
900	R	313	17	20	61
	D	133	46	42	

M∡ 175° 59' 02"

317	R	[illegible]	14	42	25
	D	221	14	03	

M∡ 88° 31' 27"

M∡ 175° 58' 56.5"



K @ #107

SET H.I.T.

HI = 5.26

1)

302 D 0 00 30 46

R 180 01 02

M = 47° 48' 43"

D 47 49 12 29

R 227 49 43

M = 47° 48' 50"

2)

302 R 225 15 42 30

D 45 15 18

M = 47° 48' 57"

R 315 04 38 27

D 93 04 16

Z = TO # 134

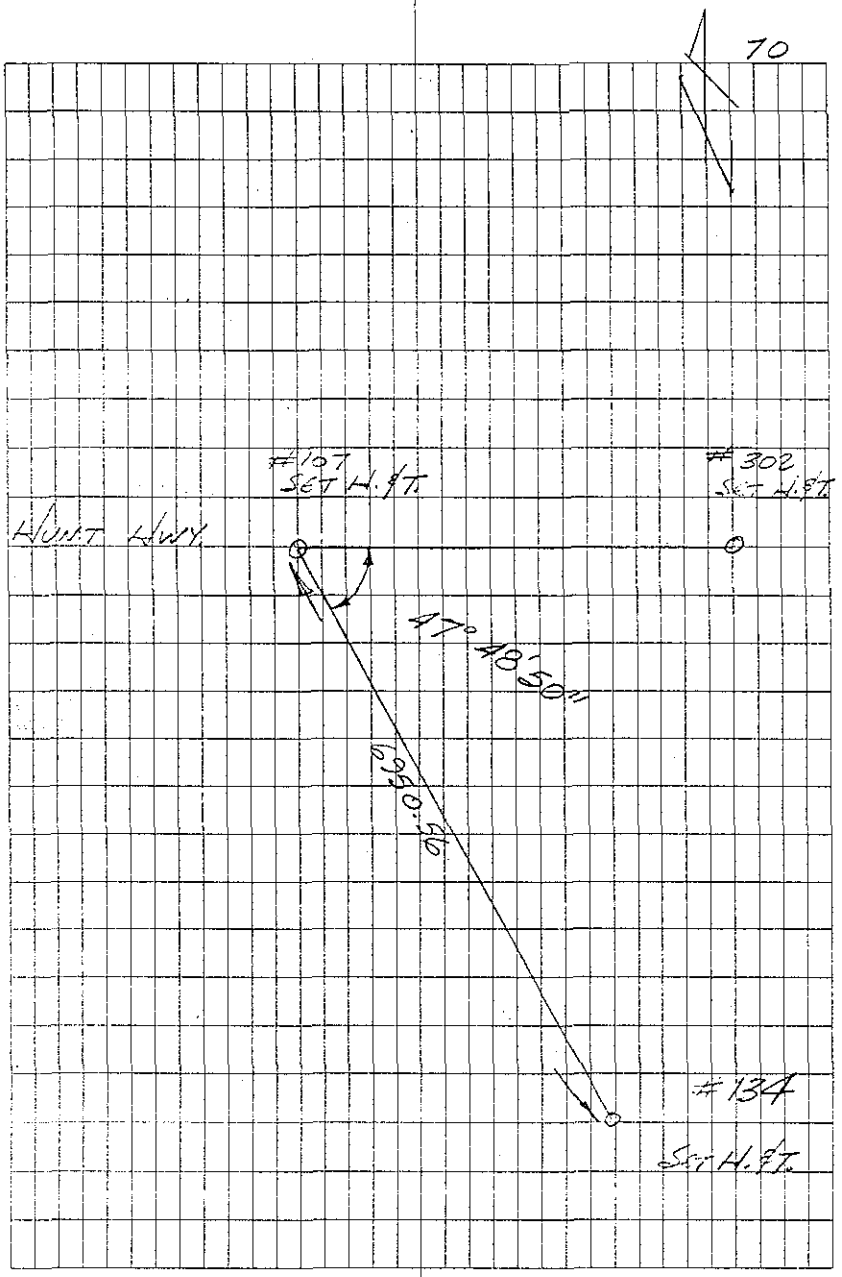
HI = 5.40

D 88 49 42

SD 6952.04

HD 6950.56

M 2118.97



X @ #303

SET H.S.T.

HI = 5.50

302 0 0 00 30 46

R 180 01 02

M = 277° 01' 02"

135 0 277 01 36 48

R 97 02 00

M = 277° 00' 59.5"

302 R 325 15 36 18

D 45 15 00

M = 277° 00' 57"

135 R 142 16 32 75

D 322 15 58

Z @ #135

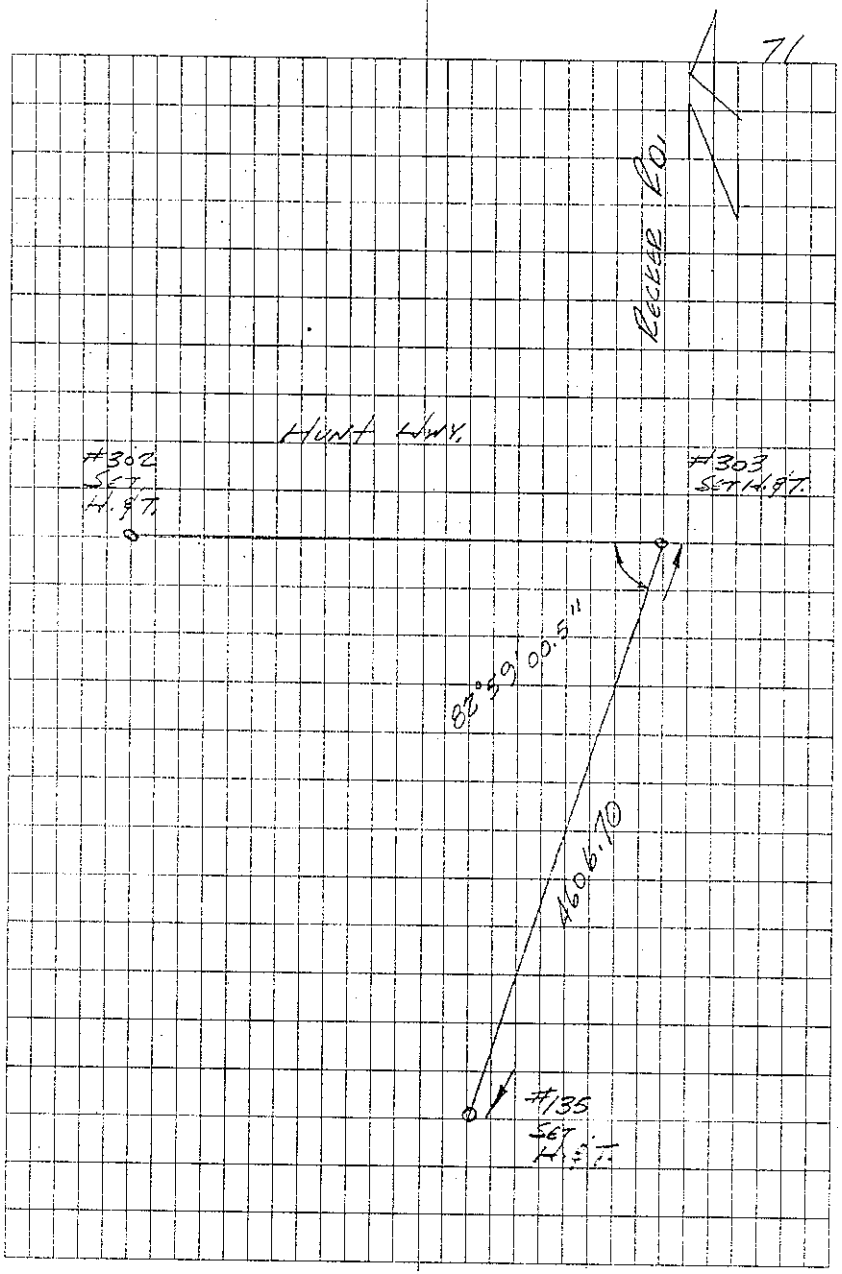
HI = 9.25

D 93 33 30

SD 4607.97

HC 4606.70

M 140451



T @ #901

SET NAIL

1)

307	D	0	00	30	42
	R	180	00	54	

M ∢ 28° 42' 53"

112	D	28	43	22	35
	R	208	43	48	

M ∢ 247° 21' 30"

137	D	247	21	58	72
	R	67	22	26	

M ∢ 258° 30' 07"

136	D	258	30	32	49
	R	78	31	06	

2)

307	R	225	15	32	22
	D	45	15	12	

M ∢ 38° 43' 03"

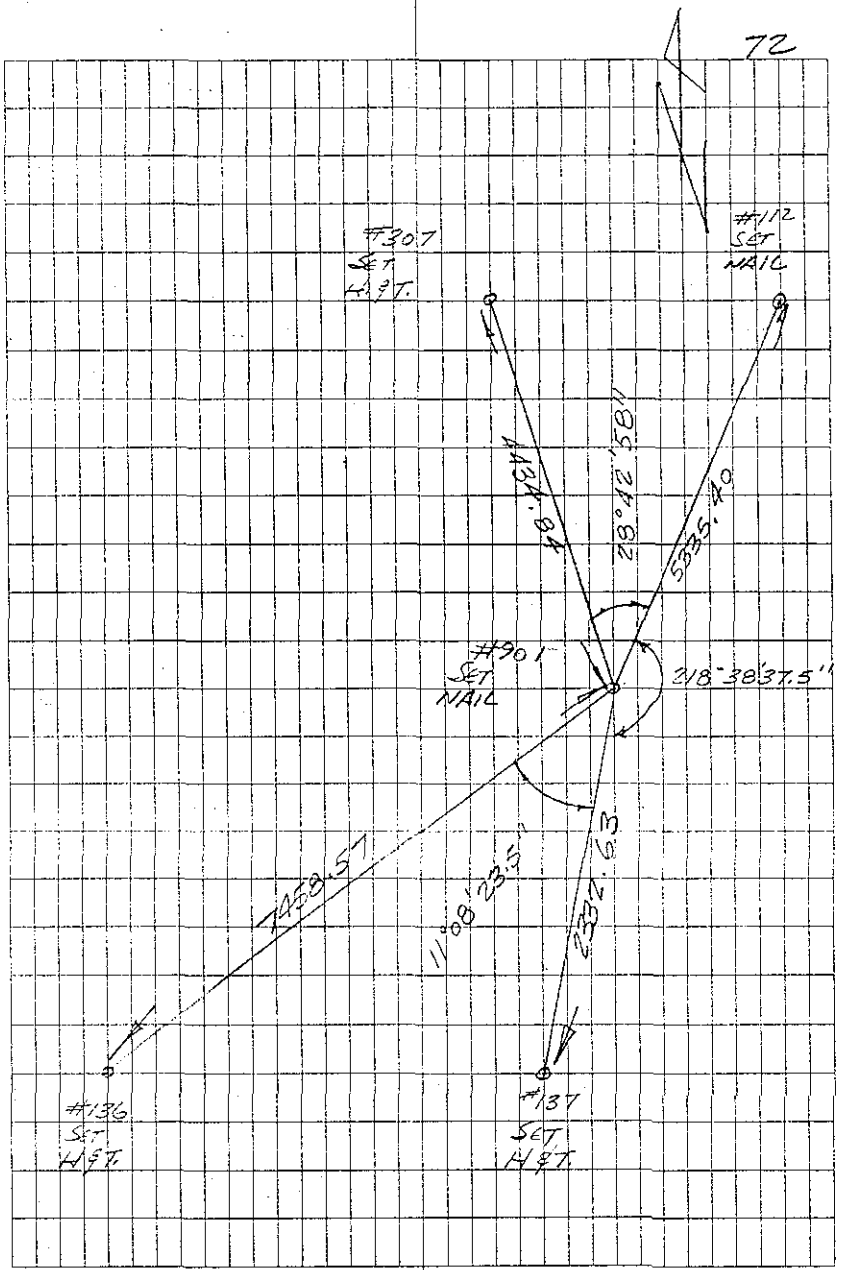
112	R	253	58	30	25
	D	73	58	20	

M ∢ 247° 21' 41"

137	R	112	37	10	63
	D	292	36	56	

M ∢ 258° 30' 11"

136	R	123	45	50	33
	D	303	45	16	



x @ #901

SET NAIL

Z ∡ To #136

D 90 42 40

SD 7459.14

HD 7458.57

M 2273.55

Z ∡ To #137

D 92 06 38

SD 2334.21

HD 2332.63

M 711.47

T @ #901

SET NAIL

ET to #307

D 92 12 52

SD 4438.16

HD 4434.84

M 1352.75

ET to #112

D 91 59 36

SD 5338.63

HD 5335.40

M 1627.22

x @ #112

SET NAIL

308	D	0	00	34	42
	R	180	00	54	

M → 250° 28' 05"

138	D	250	28	28	47
	R	70	29	06	

M → 303° 27' 48"

901	D	303	28	14	30
	R	123	28	46	

2)

308	R	225	15	38	19
	D	45	15	00	

M → 250° 28' 21"

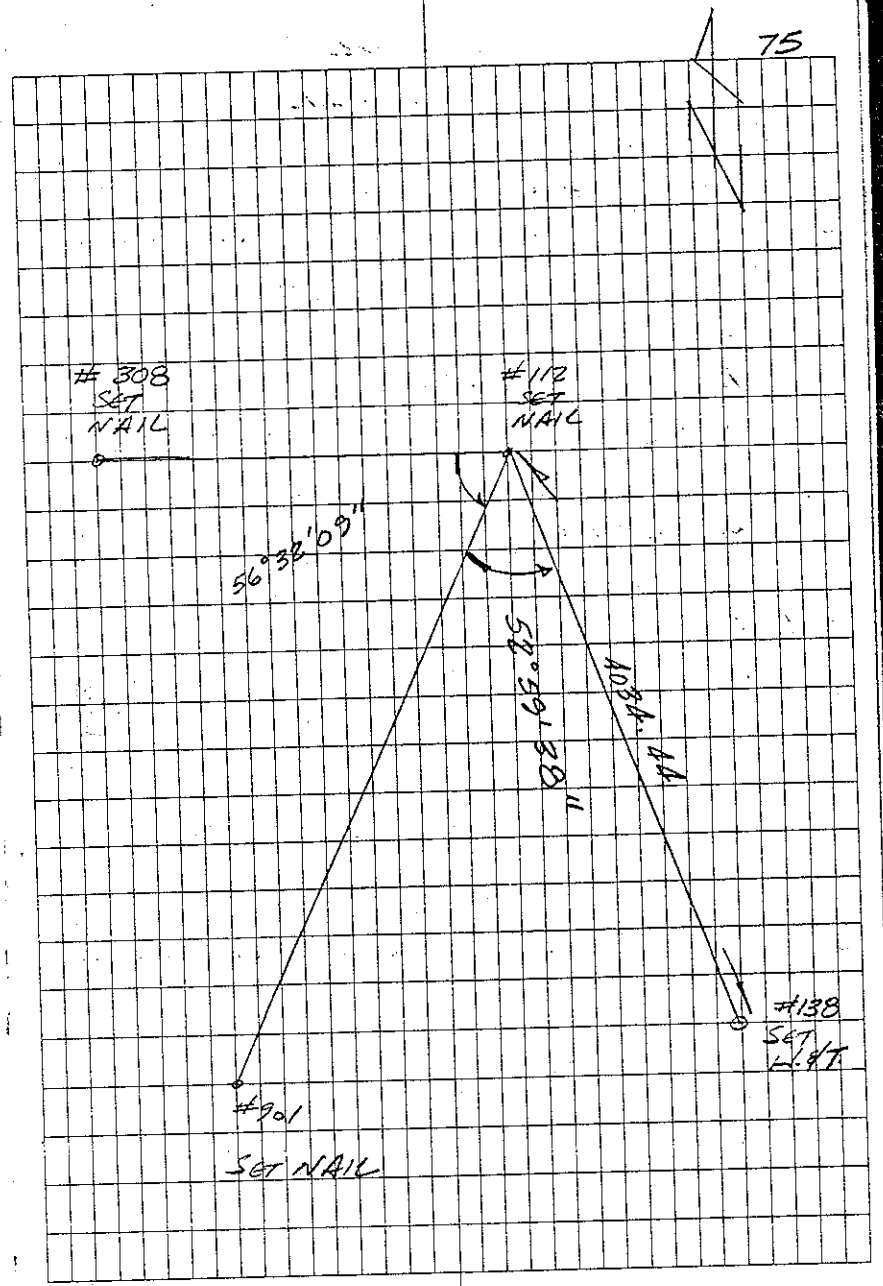
138	R	115	43	58	40
	D	295	43	22	

M → 303° 27' 54"

901	R	168	43	36	73
	D	348	42	50	

M → 250° 28' 13"

M → 303° 27' 51"



TC #112

Set NAIL

EA TC #138

D 88 34 40

SD 4035.68

HD 4034.44

M 1230.08

T @ #307
SET H. & T.

1)

308	D	0	00	28	44
	R	180	01	00	

M ∡ 95° 58' 35"

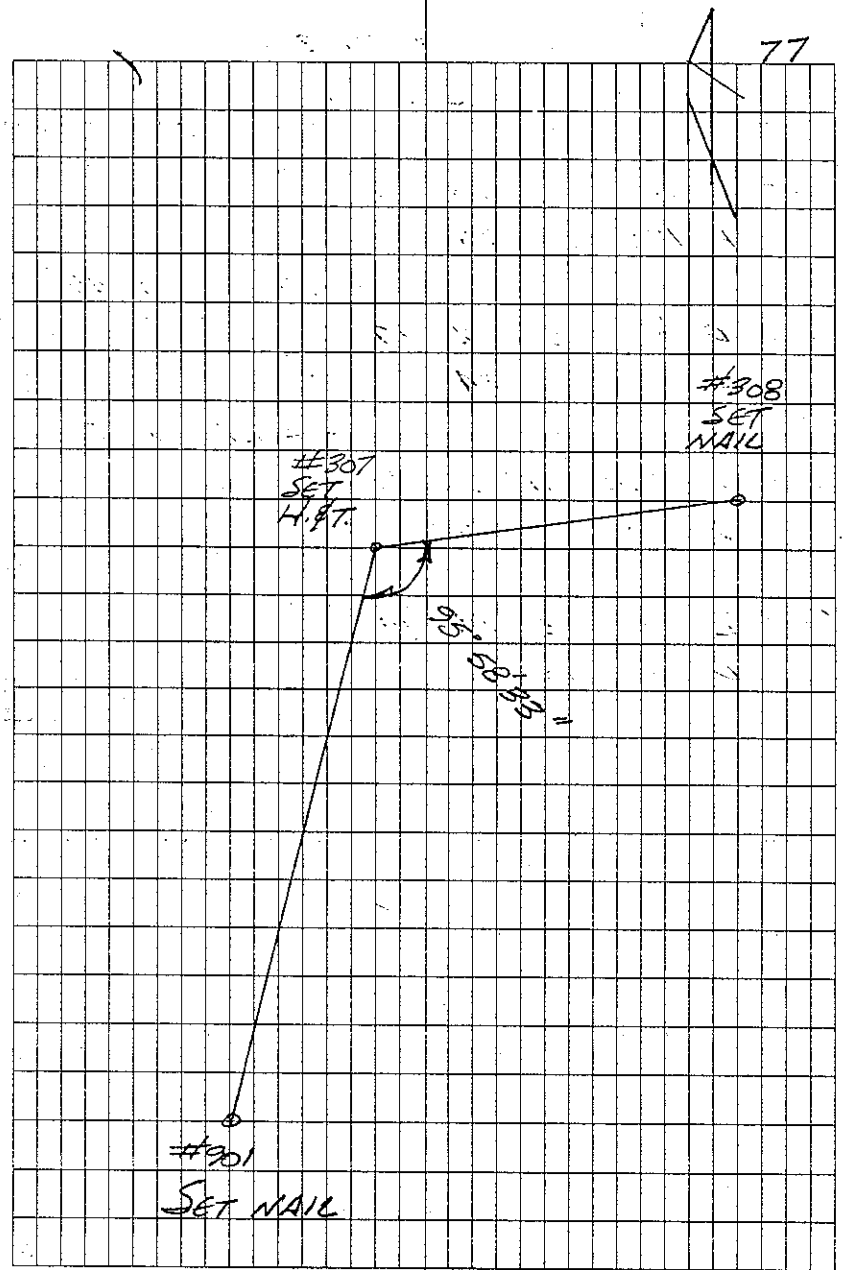
901	D	95	59	04	19
	R	275	59	34	

2) M ∡ 95° 58' 33"

308	R	225	15	28	19
	O	45	15	10	

M ∡ 95° 58' 31"

901	R	321	13	58	50
	O	141	13	42	



π @ #103

Fo. BC IN H.H.

1)

102	D	0	00	30	27
	R	180	00	24	

M∡ 89° 54' 46"

104	D	89	55	02	13
	R	269	55	24	

M∡ 270° 06' 57"

105	D	270	07	20	24
	R	90	07	28	

2)

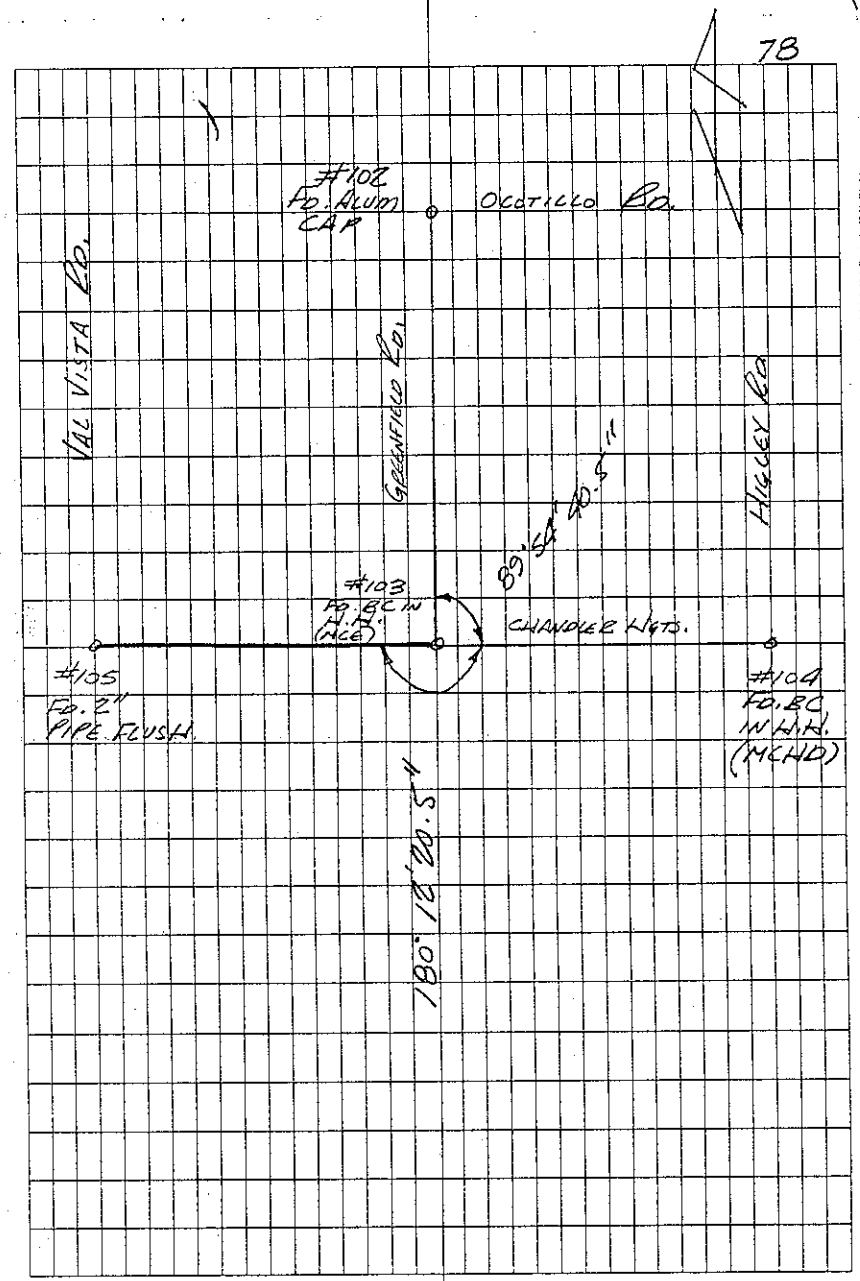
102	R	225	15	42	41
	D	45	15	40	

M∡ 89° 54' 35"

104	R	315	10	14	15
	D	135	10	16	

M∡ 270° 07' 05"

105	R	135	22	44	46
	D	315	22	48	

M∡ 89° 54' 40.5"

M∡ 270° 07' 01"