CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
3550 N. Central Ave, 2nd floor
Phoenix, AZ, 85012
602-771-1601
http://www.azgs.az.gov
inquiries@azgs.az.gov

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MINERAL HILL
JALANDER-MAG
FOR (CANADA)

					JW	M
					JEF	H
					TR. MK REG.	U.S. PAT. OFF

3/13/63

BASE STA	Scale	Read	Comm	Intv		
1	+1	83		12:20		
4	+1	92		12:25		
4	+1	96		2:42		
4	+1	93		2:46		
5	+1	90		2:39		
5	+1	93		2:50		
5	+1	99		2:57		
5	+1	93		3:03		
1	+1	80		3:09		
		3/14/63				
1	+1	77		10:03		
4	+1	92		10:10		
5	+1	93		10:12		
1	+1	78-83		10:17	20 sec	
		70-73			apart	
		70-76				
		75-78				
		75-76				
		79-78				
		77-86				
		75-84				
		84-110	off comm			
		75-77				
		77-79				
		68-72				
		71-66				
		80-82				
		82-77				
1	+1	79-78		10:43		

ORIGINAL COPR. 1961 J. C. PARKER
LEITAX. PHILADELPHIA 7, PA. MADE IN U.S.A.

MINERAL HILL Sur.
Salander Mag
for
Anaconda Co.

SW M
F.P.T.

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

3/11/63

Establishing Bases & control

BASE Sta	Scale	Read	Corr Gamma		Date
9	+1	112	1120	old 1125 cor	3/25 3/2
9	+1	112	1120	NEW 1220	12:00
8	+1	89	890		12:10
7	+1	97	970		12:15
6	+1	90	900		12:18
5	+1	92	920		12:20
4	+1	96	960		12:22
3	+1	81	810		12:23
2	+1	82	820		12:26
1	+1	83	830		12:28
				BAT 220	3/12/63
X	+1	99-100			8:45
X	+1	89-90	890		10:08
1	+1	93	830		10:12
2	+1	92	820		10:14
4	+1	94	940		10:16
3	+1	83	830		10:22
X	+1	93	930		1:12
3	+1	81	810		1:27
1	+1	82	829	BAT 180	1:32
1	+1	88	880		2:02
5	+1	99	990		2:10
6	+1	99	890		4:28
5	+1	94	940	BAT 175	4:33
1	+1	82	820		4:36

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LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

LINE 1 EAST

STA	SCALE	Read	CONV	INFO.
NWC 33				
Boul	+1	83	830	1:08
0E	+1	81	810	
1E	+1	80	800	
2E	+1	77	770	
3	+1	78	780	
4	+1	79	790	
5	+1	78	780	
6	+1	77	770	
7	+1	75	750	
8	+1	86	860	
9	+1	89	890	
10	+1	88	880	1:07
11	+1	86	860	
12	+1	53	830	
13	+1	82	820	
14	+1	84	840	
15	+1	83	830	
16	+1	81	810	
17	+1	82	820	
18	+1	78	780	
19	+1	77	770	
20	+1	79	790	
21	+1	77	770	1:15
22	+1	75	750	
23	+1	78	780	
24	+1	73	730	
25	+1	81	810	
26	+1	72	720	12' W of ¼ COR
27	+1	77	770	
28	+1	76	760	

JWM
FIELD

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

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LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

LINE 1 EAST 3/11/63

W	M
E	E
	N

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

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LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

STA	SCALE	Read	CONV	INFO
29	+1	72	720	
30	+1	85	850	1:27
31	+1	94	940	WEST OF Rd 0.07
32	+1	105	1050	Jones Lane
33	+1	114	1140	
34	+1	112	1120	
35	+1	109	1090	
36	+1	110	1100	
37	+1	111	1110	
38	+1	112	1120	
39	+1	117	1170	
40	+1	116	1160	1:30
41	+1	109	1090	
42	+1	110	1100	
43	+1	102	1020	
44	+1	99	990	
45	+1	92	920	
46	+1	88	880	
47	+1	83	830	
48	+1	77	770	
49	+1	77	770	
50	+1	75	750	1:35
51	+1	76	760	
52	+1	78	780	
53	+1	76	760	20' PAST CON 1:38
54	+1	82	820	
55	+1	79	790	
56	+1	84	840	
57	+1	75	750	
58	+1	76	760	

LINE 1 EAST 3/11/63

	STA	Scale	Read	Conv	INFO		
	59	+1	73	730			
	60	+1	75	750	1:47		
	61	+1	72	720			
	62	+1	74	740			
	63	+1	71	710			
	64	+1	74	740			
	65	+1	78	780			
	66	+1	74	740			
	67	+1	77	770			
	68	+1	75	750			
	69	+1	77	770			
	70	+1	77	770	1:50		
	71	+1	78	780			
	72	+1	75	750			
	73	+1	76	760			
	74	+1	77	770			
	75	+1	74	740			
	76	+1	76	760			
	77	+1	73	730			
	78	+1	79	790			
	79	+1	78	780			
	80	+1	79	790	2:00		
	81	+1	80	800			
	82	+1	69	690			
	83	+1	78	780			
	84	+1	78	780			
	85	+1	79	790			
	86	+1	78	780			
	87	+1	79	790			
	88	+1	81	810			

	D W	M
	F E	H

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

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LEFAX, [illegible] ADELPHIA 7, PA., [illegible] E IN U.S.A.

LINE 1 EAST 3/11/63

JW	M
KE	H

STA	Scale	Read	Conv	Info	TR. MK REG. U.S. PAT. OFF.
89	+1	79	790		
90	+1	83	830	2.04	
91	+1	81	810		
92	+1	84	840	Banner - Entrance	
93	+1	85	850		
94	+1	87	870		
95	+1	83	830		
96	+1	83	830		
97	+1	86	860		
98	+1	86	860		
99	+1	87	870		
100	+1	85	850	2.14	
101	+1	85	850		
102	+1	91	910		
103	+1	93	930		
104	+1	90	900		
105	+1	87	870		
106	+1	80	800	2.18	See C&R B.M.
3rd	Same	91	910		

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LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

Line 2 WEST 3/11/63 JWM

Sta	scale	Read	conv	Info	TR. MK REG. U.S. PAT. OFF.
106	+1	88	880	2:26	
105	+1	89	890		
104	+1	96	960		
103	+1	89	890		
102	+1	89	890		
101	+1	87	870		
[illegible]	+1	86	860	2:43	
[illegible]	+1	90	900		
[illegible]	+1	92	920		
[illegible]	+1	91	910		
[illegible]	+1	89	890		
[illegible]	+1	84	840		
[illegible]	+1	85	850		
[illegible]	+1	91	910		
[illegible]	+1	90	900		
[illegible]	+1	88	880		
[illegible]	+1	82	820	2:51	
69	+1	81	810		
98	+1	77	770		
97	+1	74	740		
86	+1	80	800		
85	+1	79	790		
84	+1	83	830		
83	+1	82	820		
82	+1	86	860		
81	+1	83	830		
[illegible]	+1	85	850	2:50	
[illegible]	+1	84	840		
[illegible]	+1	85	850		
[illegible]	+1	82	820		

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LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

Line 2 West 3/11/63

Sta	Scale	Read	Conv	Into
76		85	850	
75		79	790	
74	+1	82	820	
73	+1	89	880	
72	-1	88	890	
71	+1	80	890	
70		83	830	3:05
69		81	810	
68		79	790	
67		78	780	
66		81	810	
65		85	850	
64		90	900	
63		79	790	
62		77	770	
61		88	880	
60		82	820	3:12
59		84	840	
58		78	780	
57		80	800	
56		75	750	
55		79	790	
54		74	740	
53		76	760	
52		75	750	
51		77	770	
50		76	760	3:18
49		77	770	
48		77	770	
47		83	830	

AW
EF
M
H

TR. MK REG. U.S. PAT. OFF.
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Line 2 WEST 3/11/43

Sta	Scale	Head	Conv	Into		
46		82	820			
45		81	810			
44		80	800			
43		82	820			
42		79	790			
41		82	820			
40		86	860	3:25		
39		83	830			
38		81	810			
37		86	860			
36		87	870			
35		83	830			
34		86	860			
33		85	850			
32		88	880			
31		85	850			
30		86	860	3:45		
29		89	890	W. Edge of Road		
28		82	820			
27		88	880			
26		87	870			
25		86	860			
24		85	850			
23		87	870			
22		89	890	WIRE FOR IP		
21		88	880			
20		89	890	3:52		
19		86	860			
18		90	900			
17		92	920			

QW FRH

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

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LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

Line 2 West 3/11/63

STB	scale	Read	conv	Info	
16		88	880		
15		86	860		
14		96	960		
13		93	930		
12		92	920		
11		88	880		
10		91	910	3.58	
9		89	890		
8		84	840		
7		84	840		
6		84	840		
5		88	880		
4		87	870		
3		91	910		
2		87	870		
1		86	860	4.05	BASE 2
BASE 1		83	830	BAT 175	STB #5 - 14.07

DW
DEF H

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

ORIGINAL COPR. 19[illegible] J. C. PARKER

LEFAX, [illegible]ADELPHIA 7, PA., [illegible]E IN U.S.A.

LINE 4 EAST 3/12/63

STA	Scale	Read	Conv	Info	Tr. Mk Reg.	U.S. Pat. Off.
OP	+1	100	930	Base 4	10:35	
0	+1	102	950	Base 4	10:28	
1E	+1	102	950			
2	+1	97	900			
3	+1	99	920			
4	+1	99	920			
5	+1	98	910			
6	+1	96	890	Line - 0 - Road		
7	+1	96	890			
8	+1	94	870			
9	+1	95	880	Line - 0 - Road		
10	+1	91	840		10:44	
11	+1	100	930			
12	+1	101	940			
13	+1	97	900			
14	+1	98	910			
15	+1	102	950			
16	+1	97	900			
17	+1	101	940			
18	+1	98	910		Road	
19	+1	100	930			
20	+1	100	930		10:53	
21	+1	97	900			
22	+1	100	930			
23	+1	99	920			
24	+1	102	950			
25	+1	100	930			
26	+1	97	900			
27	+1	98	910			
28	+1	97	900			
29	+1	93	860			

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LINE-4 EAST 5-12-63

STA.	Scale	Read	conv.	INFO
30	+1	95	870	11:00
31	+1	96	890	
32		92	850	
33	+1	93	860	
34		85	780	
35		94	870	
36	+1	91	840	
37		94	870	
38		89	820	
39		86	790	
40		83	760	11:09
41		82	750	
42		89	820	
43	+1	87	800	
44	+1	86	790	
45		89	820	
46		97	900	
47		121	1140	
48		120	1130	
49		122	1150	
50		129	1220	11:18
51		124	1170	
52	+1	94	870	W. con. P.I.T.S.
53	+1	75	680	
54	+1	76	690	FENCE 1/2 W.2
55	+1	79	700	
56	+1	76	690	
57	+1	82	750	
58	+1	83	760	
59	+1	85	790	

J. W. M.
E. G. H.

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

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LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

LINE 4 EAST 3/12-63

Sta.	Scale	Read	Conv	Info	DW	M
					G.E.	
60	+1	87	800	11:25		
61	+1	87	800	Road		
62	+1	62	570			
63	+1	86	790			
64	+1	84	770			
65	+1	97	900			
66	+1	82	750	11:30	Edge of Dump	
					N.E. cor JH Open	
106	+1	97	870			
	+1	90	900			

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LEFAX, [illegible] ADELPHIA 7, PA., [illegible] E IN U.S.A.

LINE 3 East 3/12/63

AW M
EE H

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

STA	scale	Read	Conv	Expo	
106	+1	90	900	11:38	
105	+1	91	910		
104	+1	92	920		
103	+1	89	890		
102	+1	83	830		
101	+1	90	900		
100	+1	86	860	12:06	
99	+1	93	930		
98	+1	92	920		
97	+1	75	750		
96	+1	89	890		
95	+1	65	650		
94	+1	80	800		
93	+1	87	870		
92	+1	78	880	w com, LITTLE VA	
91	+1	90	900		
90	+1	84	840	12:12	
89	+1	75	850		
88	+1	84	840		
87	+1	83	830		
86	+1	86	860		
85	+1	95	850		
84	+1	97	870		
83	-1	78	780		
82	0	83	830		
81	-1	84	840		
80	+1	86	860	12:18	
79	+1	93	830	Flying Saucer	
78	+1	86	860	Rebecca Ann	
77	+1	96	860		

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LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

LINE 3-

3-12-63

Sta	scale	Read	Conv	INFO
76	+1	85	880	
75	+1	85	850	
74	+1	83	830	
73	+	85	850	
72	+1	84	840	
71	+1	86	860	
70	+1	87	870	12:20
69	+1	86	860	
68	+1	84	840	
67	+1	84	840	
66	+1	82	820	cold opp of R
65	+1	85	850	
64	+1	80	800	
63	+1	87	890	
62	=	86	860	
61	-1	87	870	In Road
60	+1	86	860	12:43
59	+1	87	870	
58	+1	81	810	
57	+1	82	820	
56	+1	83	830	
55	+1	79	790	
54	+1	82	820	
53	+1	94	940	Fence ½ way
52	+1	90	900	
51	+1	92	920	
50	+1	90	900	12:51
49	+1	79	790	
48	+1	83	830	
47	+1	91	810	

AW
E.F. W

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

ORIGINAL COPR. 191[illegible] J. C. PARKER

LEFAX, E[illegible]ADELPHIA 7, PA., [illegible]E IN U.S.A.

LINE 3 3/12-63 JW MFEL

STA	Scale	Read	Corr	White	TR. MK REG. U.S. PAT. OFF.
46	+1	85	850		
45	+1	81	810		
44	+1	82	920		
43	+1	91	810		
42	+1	90	800		
41	+1	82	820		
40	+1	84	840	12:57	
39	+1	92	820		
38	+1	91	810		
37	+1	81	810		
36	+1	87	870		
35	+1	84	840		
34	+1	85	850		
33	+1	86	860		
32	+1	85	850		
31	+1	92	820		
30	+1	99	890	1:03	
29	+1	81	810		
28	+1	100	1000		
27	+1	90	900		
26	+1	93	930		
25	+1	92	920		
24	+1	95	950		
23	+1	94	940		
22	+1	96	960		
21	+1	95	950	Paved Road	
20	+1	92	920	1:13	
19	+1	92	920		
18	+1	93	930		
17	+1	97	970		

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LINE 3 | 3-12-C3 | DW M DEE H

Sta	SCALE	Read	CONV	INFO
16	+1	98	980	
15	+1	90	960	
14	+1	96	960	
13	+1	98	980	
12	+1	93	930	N.W Fox Hop1
11	+1	94	940	
10	+1	89	890	1:20
9	+	92	920	
8	+1	89	890	
7		94	840	
6		80	800	Lime-O-CROP
5	+1	84	840	
4	-1	80	800	
3		87	870	
2	+1	79	790	"
1	+1	82	820	
0	+1	81	810	1:27 Base 3

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LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

LINE-5 EAST

3/12/63

STA	Scale	Read	Conv	INFO
0E	+1	94	930	2:10
1E	+1	103	970	
2	+1	102	960	
3	+1	95	890	
4	+1	88	820	
5	+1	125	1190	WASH Black Sand
6	+1	99	930	
7	+1	95	890	
8	+1	95	890	Lime -o- CROP
9	+1	98	920	
10	+1	97	910	2:35 Loc PIT
11	+1	95	890	N.W.C. Pueblo
12	+1	100	940	E.F.C. YUMA
13	+1	99	930	
[illegible]	+1	101	950	
[illegible]	+1	99	930	FENCE
[illegible]	+1	103	970	W. Paved Road
[illegible]	+1	98	910	
[illegible]	+1	100	940	
19	+1	99	930	
20	+1	94	880	2:32
21	+1	94	880	
22	+1	95	890	
23	+1	92	860	Lime -o- CROP
24	+1	95	890	
25	+1	92	860	
26	+1	90	840	" "
27	+1	92	860	" "
28	+1	92	860	
29	+1	92	860	

JW
EF
M
W

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LINE 5- 3/12/63

Sta	Scale	Read	Conv	Dn 20	
30	+1	86	820	2:39	
31	+1	87	810		
32	+1	88	820		
33	+1	90	840		
34	+1	86	820		
35	+1	85	790		
36	+1	87	810		
37	+1	83	760		
38	+1	91	850		
39	+1	89	830		
40	+1	85	790	2:43	
41	+1	82	760		
42	+1	81	750	Lime + crop	
43	+1	82	760		
44	+1	77	730	" "	
45	+1	81	750		
46	+1	87	810		
47	+1	91	850		
48	+1	106	1010		
49	+1	101	950		
50	+1	92	860	2:50	
51	+1	104	980	Dirt Road	
52	+1	155	1490		
53	+1	140	1360		
54	+1	109	1030		
55	+1	82	760		
56	+1	58	520		
57	+1	85	790		
58	+1	72	660		
59	+1	77	710		

AVM
HEH

TR. MK REG. U.S. PAT. OFF.
ORIGINAL COPR. 191[illegible] J. C. PARKER
LEFAX, [illegible] ADELPHIA 7, PA., [illegible] E IN U.S.A.

LINE-5 3/12-63

STA	scale	Read	conv	Into	
60	+1	77	710	3:03	
61	+1	81	750		
62	+1	80	740		
63	+1	81	750	Good DIRT ROAD	
64	+1	79	730		
65	+1	82	760		
66	+1	82	760		
67	+1	80	740	3:12	

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ORIGINAL COPR. 19[illegible] J. C. PARKER
LEFAX, [illegible] ADELPHIA 7, PA., [illegible] E IN U.S.A.

LINE 6 3/12/63

Sta.	Scale	Read	Conv	Info
67	+1	84	846	3:23
66	+1	77	770	
65	+1	79	790	
64	+1	69	690	Edge of Dump
63	+1	72	720	
62	+1	73	730	
61	+1	85	850	
60	+1	83	830	3:29
59	+1	83	830	
58	+1	105	1050	
57	+1	200	2000	Drill Rig
56	+1	50	500	" "
55	+1	104	1040	
54	+1	57	570	
53	+1	67	670	
52	+1	95	950	
51	+1	86	860	
50	+1	83	830	3:37
49	+1	83	830	Line of Crop
48	+1	84	840	" "
47	+1	87	870	" "
46	+1	85	850	" "
45	+1	84	840	" "
44	+1	87	870	" "
43	+1	89	890	" "
42	+1	90	900	" "
41	+1	92	920	" "
40	+1	92	920	3:55 " "
39	+1	93	930	" "
39	+1	93	930	" "

ORIGINAL COPR. 1957 J. C. PARKER
LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.
TR. MK REG. U.S. PAT. OFF.

LINE-6- 3-12-63

STA	SCALE	Read	CONV	INFO
37	+1	93	930	Lime-O-CROP
36	+1	100	1000	
35	+1	96	960	
34	+1	93	930	
33	+1	94	940	
32	+1	95	950	
31	+1	97	970	Lime-O CROP
30	+1	98	980	4:00
29	+1	96	960	
28	+1	94	940	
27	+1	96	960	
26	+1	92	920	Lime-O-CROP
25	+1	97	970	
24	+1	95	950	
23	+1	94	940	
22	+1	92	920	24 Light
21	+1	95	950	
20	+1	97	970	4:13
19	+1	99	980	
18	+1	96	960	
17	+1	104	1040	
16	+1	98	980	
15	+1	98	980W	EDGE OF ROAD
14	+1	94	940	
13	+1	97	970	
12	+1	97	970	
11	+1	92	920	
10	+1	95	950	4'22
9	+1	96	960	
8	+1	96	960	

JWM
E.E. K

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LEFAX, PHILADELPHIA 7, PA., E IN U.S.A.
TR. MK REG. U.S. PAT. OFF.

LINE 6 3/12-63

STA	SCALE	READ	CONV	INCO	TR. MK REG. U.S. PAT. OFF.
7	+1	94	940		
6	+1	97	970		
5	+1	102	1020		
4	+1	91	910		
3	+1	96	960		
2	+1	97	970		
1	+1	90	900		
0	+1	94	890	4/28	BASE 6

ORIGINAL COPR. 1911 J. C. PARKER
LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

Line 4 R13/Run

Date 3/13/63

JW MF

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

Sta	Set	Read	Corr	Enco	
OE	+1	95	950	BASE	4 12', 26
1	+1	95	950		
2	+1	89	890		
3	+1	88	880		
4	+1	85	850		
5	+1	89	890		
6	+1	82	820	Lime-O	CROD
7	+1	83	830	"	
8	+1	82	820	"	"
9	+1	80	800	"	"
10	+1	80	800	"	1.34
11	+1	86	860		
12	+1	94	940		
13	+1	86	860		
14	+1	86	860		
15	+1	87	870		
16	+1	87	870		
17	+1	95	950	E	ROAD
18	+1	90	900		
19	+1	86	860		
20	+1	88	880		1246
21	+1	84	840		
22	+1	83	830		
23	+1	84	840		
24	+1	85	850		
25	+1	86	860		
26	+1	83	830		
27	+1	89	890		
28	+1	83	830		
29	+1	82	820		

LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A. ORIGINAL COPR. 1957 J. C. PARKER

Line 4 — East — 3/13/63

Sta	Scale	Read	Conv	Info
30	+1	78	780	1253
31	+1	80	800	
32	+1	80	800	
33	+1	81	810	
34	+1	80	800	
35	+1	80	800	
36	+1	79	790	
37	+1	82	820	
38	+1	94	940	
39	+1	78	780	
40	+1	81	810	1107
41	+1	70	700	
42	+1	72	720	
43	+1	74	740	
44	+1	79	790	
45	+1	75	750	
46	+1	78	780	
47	+1	76	760	
48	+1	84	840	
49	+1	100	1000	
50	+1	105	1050	1116
51	+1	105	1050	
52	+1	103	1030	
53	+1	107	1070	
54	+1	100	1000	
55	+1	74	740	
56	+1	65	650	
57	+1	58	580	
58	+1	67	670	
59	+1	70	700	

DAM FACE

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LEFAX, PHILADELPHIA 7, PA., U.S.A.

Line 4 - East

3/13/63

STA	SCALE	Head	Conv	INFO
60	+1	52	520	ROAD 1.24
61	+1	72	720	
62	+1	73	730	
63	+1	79	780	
64	+1	72	720	ROAD CORR
65	+1	73	730	
66	+1	73	730	
67	+1	73	730	
68	+1	69	690	
69	+1	76	700	

DON'T use

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

LINE 5 W. 3/13/63

A M
E E H

Sta	Scale	Read	conv	Sum		
69	+1	73		1:32		
68	+1	73				
67	+1	117		DDH	12C	
66½	+1	73				
66	+1	76		Conv		
65	+1	72				
64	+1	69				
63	+1	71				
62	+1	67				
61	+1	65				
60	+1	71		1:40		
59	+1	57				
58	+1	75				
57	+1	129		DDH(69)	FENCE	
56	+1	113				
55	+1	112				
54	+1	160		DDH	169	
53	+1	137				
52	+1	169		DDH 200		
51	+1	92				
50	-1	92		1:47		
49	+1	85				
48	+1	86				
47	+1	90				
46	+1	72				
45	+1	77		LINE 0-CAM		
44	-1	79		"	"	
43	+1	78				
42	+1	82				
41	+1	83		"	"	

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

LINE 5 3/13/63

JW
EE H

Sta	Scale	Read	Conv	In 70		
40	+1	82			1149	
39	+1	82				
38	+1	80		E.EC.	Drumm	
37	+1	91				
36	+1	82				
35	+1	83				
34	+1	92				
33	+1	86				
32	+1	92				
31	+1	93				
30	+	97		Lime-o-crop		
29	+1	85		2:00	"	"
28	+1	85				
27	+1	85				
26	+1	89				
25	+1	100				
24	+1	89				
23	+1	91				
22	+1	94				
21	+1	96				
20	+1	90		2:10	25 rd	
19	+1	94				
18	+1	93				
17	+1	95		Brush		
16	+	96				
15	+1	90				
14	+1	91				
13	+1	89		-0-	cl.	
12	+1	90				
11	+1	89				

TR. MK REG. U.S. PAT. OFF.
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LINE 5

3/13/63

Sta	Scale	Read	Conv	Intp	TR. MK REG.	U.S. PAT. OFF.
10	+1	88		2.32		
9	+1	89				
8	+1	90				
7	+1	90				
6	+1	95				
5	+1	92				
4	+1	92				
3	+1	89				
2	+1	95				
1	+1					
0	+1	90		BASIS		2.39

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Line 1 EAST 3/14/63

STA	SCALE	FIELD	CORR	CMSD		
1	+1	7677		10:30		
2	+1	7677				
3	+1	73				
4	+1	78				
5	+1	72-3				
6	+1	73				
7	+1	72				
8	+1	84				
9	+1	85				
10	+1	85-95 S		10:35		
10	+1	96-97 NW		10:37		
		N96 NE 97				

DW M
FF H

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

ORIGINAL COPR. 19 Y J. C. PARKER

LEFAX LADELPHIA 7, PA. DE IN U.S.A.

VALENCIA ROAD

+1 Range 3/15/67

STAT	TIME	(1-00) SHARP	Y	REID JAL
BASE 0+00W	9:55	24.5 24.5	24.5	174
1+00	9:58	24.7 24.2 24.9 24.0	24.5	167
2+00W	10:05	24.9 24.8	24.8	168
3+00W	10:08	24.8 24.2	24.5	167
4+00W	10:12	24.1 24.0	24.1	169
5+00W	10:16	24.9 24.2	24.5	165
BASE	10:20	25.2 24.4 24.8 25.0	24.8	168
BASE	11:00	24.7 24.6	24.5	
1)	11:13	24.3 24.7	24.5	165
2)	11:17	24.6 24.3	24.5	165
3)	12:03	24.9 24.-	24.5	165
4)	12:07	24.2 24.-	24.5	left turned on for
5)	12:19	24.4 24.-	24.5	
6)	12:49			159
7)	1:23			160
8)	2:10			157

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

MARCH 18 TEST

Sta	MK	Good	Time
		LINE 1	
Base 1	84	89	11:02
1E	81	86	11:04
2E	79	87	11:05
3E	82	87	11:07
4E	81	86	11:08
5E	82	84	11:09
6E	74	79	11:11
7E	75	77	11:12
8E	87	92	11:14
9E	89	96	11:17
10E	89	95	11:15
BASE 1	84	92	11:20
"	83	93	11:22
BASE 4	96	108	11:37
"	97	102	11:57
		105	"

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7/18/67

LINE 6

MAC

STA SCALE READ & TIME

BASE 6 +1

0 E/W

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LEFAX, PHILADELPHIA 7, PA. MADE IN U.S.A.

3/18/63

LINE 7

STA.	SCALE	READ	Y	TIME	
BASE 7	+1	95	950	12:10	
0 E/W					
1 E		98	980		
2 E		99	990		
3 E		103	1030		
4 E		101	1010		
5 E		77	970		
6 E		100	1000		
7 E		96	960		
8 E		92	920		
9 E		91	910		
10 E		95	950	12:17	
11 E		99	990		FENCE N/S
12 E		100	1000		
13 E		98	980		
14 E		99	990		MISSION RD
15 E		97	970		
16 E	+1	72	7200		DRILL HOLE 312
16E+50S L1		93	930		
17E		93	930		
18E		92	920		
19E		87	870		
20E		145	1450	12:24	QUARTZITE
21E		105	1050		
22E		89	890		
23E		93	930		
24E		97	970		
25E		92	920		
26E		94	940		
27E		83	830		

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		LINE 7			
STA	SCALE	READ	MAG	MAG	
28E	+1	94	940		
29E		95	950		
30E		94	940	12:33	
31E		95	950		PIPE 11+50 E
32E		93	930		
33E		92	920		LOWER TAILINGS POND
34E		82	820		
35E		87	870		
36E		86	860		
37E		89	890		
38E		88	880		
39E		89	890		
40E		88	880	12:40	
41E		87	870		
42E		87	870		
43E		89	890		
44E		87	870		
45E		86	860		
46E		86	860		
47E		87	870		
48E		86	860		
49E		87	870		
50E		85	850	12:48	
51E		87	870		
52E		93	930		
53E		109	1090		
54E		118	1180		
55E		100	1000		
56E	+2	127	3810		ON SLAG DUMP
57E	+1	75	750		
58E		78	780		

TRI MK. REG. U.S. PAT. OFF.

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LEFAX; PHILADELPHIA 7, PA., MADE IN U.S.A.

MAG N+G

LINE D

STA	SCALE	READ	X	TIME	
59E		83	830		
60E		81	810	12:56	
61E		81	810		ROAD
62E		77	770		SW COR DUMP & NW COR PIT

TRI MK. REG. U.S. PAT. OFF.

ORIGINAL COPR. 1910 : O. PARKER

LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

LINE 6

MAG MAG

STA	SCALE	READ	Y	TIME	
63 E	+1	104	1040	1:03	WEDGE OF PIT N SIDE OB
62 E		92	920		
61 E		93	930		
60 E		88	880		
59 E		92	920		
58 E		90	900		
57 E		90	900		
56 E		87	870		
55 E		87	870		
54 E		87	870		
53 E		87	870	1:14	
52 E		89	890		
51 E		90	900		TOP OF MINERAL HILL
50 E		87	870	1:33	
49 E		86	860		
48 E		89	890		
47 E		88	880		
46 E		88	880		
45 E		88	880		
44 E		87	870		
43 E		79	790	1:40	E EDGE OF MAINT. P. Tailings pond
42 E		79	790		
41 E		90	900		
40 E		83	830		
39 E		89	890		
38 E		163	1630		PIPE ?
37 E		197	1970		
36 E		166	1660		
35 E		90	900		
34 E		47	470		

3/17/67

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LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

LINE 8

MAC MAG

STA	SCALE	READ	X	TIME	
33E	+1	80	800	1:45	
32E		88	880		
31E		79	790		
30E		64	640		
29E		56	560		
28E		63	630		
27E		73	730		
26E	+2	108	3240		
25E	+1	103	1030		
24E		97	970		
23E		95	950	1:52	
22E		94	940		
21E		95	950		
20E		100	1000		SHAFT
19E		109	1090		
18E		105	1050		
17E		97	970		
16E		112	1120		
15E		127	1270		MISSION RD 11+50
14E		98	980		
13E		102	1020	2:01	
12E		102	1020		
11E		101	1010		
10E		104	1040		
9E		105	1050		FENCE 6+00
8E		96	960		
7E		94	940		
6E		95	950		
5E		100	1000		
4E		102	1020		

VIEW 7

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LEPAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

LINE 8

MAL MAG

STAT	SCALE	READ	&	TIME
3E	+1	97	970	
2N		97	970	
1W		92	920	
0=0		93	930	2:12
= BASE 8				
BASE 7		93		2:14
BASE 6		89		2:16
BASE 10		94.5		2:30

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LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

LINE 9

MAG MAG

STA	SCALE	READ	γ	TIME	
BASE	+1	109	1090	2:33	
0 E		90	900		
1 E		94	940		
2 E		92	920		
3 E		91	910		
4 E		93	930		
5 E		94	940		
6 E		89	890		
7 E		99	990		
8 E		97	970		FENCE 8+30
9 E		100	1000		
10 E		100	1000	2:40	
11 E		99	990		
12 E		103	1030		
13 E		97	970		
14 E		102	1020		
15 E		116	1160		
16 E		114	1140		
17 E		107	1070		MISSION 17+50
18 E		83	830		
19 E		88	880		
20 E		85	850	2:48	
21 E		82	820		
22 E		89	890		
23 E		93	930		
24 E		86	860		BIG LINES
25 E		37	370		
24 E	-2	180 - 5400			
27 E	2	64 - 1920			
28 E	-1	150 - 1500			

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LINE 9

MAG MAG

STA	SCALE	READ	&	TIME	BUILDINGS
29E	+1	200	200		
30E	-1	48	-48	2:53	
31E	+1	68	680		TRASH
32E	-1	7	-70		"
33E	+1	80	800		
34E		96	960		
35E		101	1010		
36E		99	990		
37E		95	950		
38E		104	1040		
39E		91	910		
40E		83	830	3.00	
41E		83	830		
42E		82	820		
43E		79	790		
44E		82	820		
45E		80	800		
46E		83	830		
47E		82	820		
48E		84	840		
49E		84	840		
50E		83	830	3.08	
51E		85	850		
52E		83	830		
53E		85	850		
54E		84	840		
55E		86	860		
56E		85	850		
57E		87	870		ROAD
58E		78	780		

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LEPAX, PHILADELPHIA 7, PA., MADE IN U.S.A.
TRI MK. REG. U.S. PAT. OFF.

3/18/67

LINE 9
MAC MAG

STA	SCALE	READ	∑	+1 ME	
59E	+1	87	870		
60E		88	880		
61E		100	1000		SW PIRATE PIT

61E +100 S 100

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LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

ANACONDA MINERAL
LINE 10

TRI MK. REG. U.S. PAT. OFF.

STA	SCALE	READ	X	TIME	
61E	+1	90	900		
60E		89	890	3:18	ALONG
59E		110	1100		DUMP
58E		92	920		
57E		87	870		
56E		89	890		
55E		79	790		
54E		99	990		
53E		63	630		
52E		70	700		
51E		75	750		
50E		91	910	3:28	
49E		95	950		
48E		103	1030		
47E		94	940		ROAD
46E		94	940		
45E		95	950		
44E		91	910		
43E		91	910		
42E		90	900		
41E		89	890		
40E		84	840	3:37	
39E		84	840		
38E		84	840		
37E		89	890		
36E		78	780		TRASH
35E		62	620		"
34E		90	900		
33E		67	670		
32E		90	900		

ORIGINAL COPR. 1910 BY A. O. PARKER

LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

7/18/67

TRI MK. REG. U.S. PAT. OFF.

LINE 10

MAG MOS

STA	SCALE	READ	∠	TIME	
31E	+1	87	870		
30E		87	870	3:45	
29E		84	840		
28E		91	910		R.D.
27E		92	920		
26E		93	930		
25E		90	900		
24E		95	950		
23E		96	960		
22E		95	950		
21E		92	920		
20E		91	910	3:50	
19E		93	930		
18E		101	1010		W LION MISSION RD
17E		100	1000		
16E		94	940		
15E		89	890		
14E		93	930		
13E		94	940		
12E		95	950		
11E		97	970		
10E		96	960	3:55	FENCE
9E		90	900		
8E		89	890		
7E		68	680		
6E		92	920		
5E		90	900		
4E		100	1000		
3E		95	950		
2E		91	910		

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LINE 10

MAC MAS

STA	SCALE READ	& TIME	
IE	+1 93	930	4:00
OE		945	
	IE = OE	= BASE 10	
BASE 9	109		
BASE 8	93		
BASE 7	92		
BASE 6	89		
BASE 5	88		4:13
BASE 4	90		
BASE 1	80		4:17
11	84	CE DEX	

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BASE READINGS
MAGE GEODEX MRBS

STA	MAG	GEOD	TIME
BASE 1	85	101	9:15
BASE 6	96		9:23
"	90		9:27
BASE 10	97		9:38
BASE 11	97		
BASE 12	98		9:46

D[illegible] curve for lines 1 & 12

-9	S/D	@	9:51
-8	S/D	@	10:02
-7	S/D	@	10:13
-6	S/D	@	10:24
-5	S/D	@	10:35
-4	S/D	@	10:46
-3	S/D	@	10:57
-2	S/D	@	11:08
-1	S/D	@	11:19
0	[illegible]	@	11:30

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LINE 11

5/10/63

MAC MAG

STA	SCALE	READ	8	TIME	
0=BASE	-1	97	880	9:51	
1E		97	880		
2E		92	830		
3E		97	870		
4E		101	920		
5		98	870		
6		99	905		
7		98	875		FENCE
8E		103	945		
9		86	775		MINE
10		96	870	9:59	
11		93	845		
12E		97	885		
13		95	865		
14		94	855		
15		76	680		
16E		98	900		MISION RD 16+50
17		98	900		
18		97	890		
19		98	900		
20E		100	920	10:06	
21		101	930		
22		99	910		
23		100	920		RD 23+50
24E		98	900		
25		102	945		
26		98	905		
27		98	905		
28E		93	855		
29		92	845		

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LINE 11

7/19/65

MAG

STA	SCALE	READ	Y	TIME	
30 E	1	91	835	10:12	
31		95	875		
32		94	865		
33		88	810		
34		89	820		
35		92	850		
36 E		89	820		
37		85	770		
38		89	820		
39		94	875		
40 E		94	875	10:18	
41		89	825		
42		91	845		
43		85	785		
44 E		91	845		
45		92	855		
46		94	875		
47		82	760		
48		94	880		
49		81	750		E SIDE STREAM
50 E		75	690	10:27	DUMP EFFECT
51		75	690		ON ROAD
52		81	750		
53		86	800		
54		89	830		
55		88	820		
56 E		77	710		
57		80	740		
58		58	525		
59		89	835		

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LINE 11

MAG MAG

STA	SCALE READ	θ	TIME		
60E+1	96	905	10:33		
61	93	875			
62	98	925			
63	94	885			
64	92	870			
65	92	870			
66E	92	870			
67	92	870			
68	93	880			
69	95	900			
70E	87	10:41 820	85'N of 70E	U.S.M.S.	726

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LINE 12

MAC MS

	SCALE	READ	Σ	TIME		
51A						
70E	+1	83	785	10:48	EDGE ALL DUMP	
69		58	835			
68		65	810			
67		87	830			
66		69	850			
65		86	820			
64		68	845			
63		92	885			
62		90	865			
61		89	855			
60E		93	885	10:55		
59		85	815			
58		88	845			
57		92	890			
56		98	750			
55		93	700			
54		95	920			
53		92	890			
52		90	870			
51		89	860			
50E		92	890	11:00		
49		84	810			
48		90	870			
47		93	900			
46		88	855			
45		90	875			
44		84	815			
43		85	825			
42		90	875			
41		90	875			

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LINE 12

MAC MAG

STA	SCALE	RED			
40 E	21	87	850	11.7	
39		88	860		
38		90	880		
37		95	930		
[illegible]		88	860		
[illegible]		92	900		
[illegible]		92	920		
33		97	950		
32		89	870		
31		86	840		
30 E		93	915	11.12	
[illegible]		91	895		
[illegible]		91	[illegible]		
[illegible]		90	[illegible]		
[illegible]		87	[illegible]		
25		84	[illegible]		
24		90	[illegible]		
23		85	[illegible]		
22		88	[illegible]		
21		92	905		
20 E		90	890	11.8	
19		93	920		
18		84	830		
17		88	870		
16		90	890		
15		89	[illegible]	E	Edge of [illegible]
14		87	[illegible]		
13		88	870		
12		80	790		D H
11 E		90	890		

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LINE 12

MAC MAG

STA	SCALE	READ	∑	TIME		
10	+1	99	990	11:23		
9		93	930			
8		91	910			
7		96	960			
6		94	940			
5		92	920			
4		83	830			
3		88	880			
2		91	910		FENCE	12:50
1		88	880			
BASE 12 OE		89	890	BASE 12		11:30
BASE 11		88		11:55		
BASE 12		89		12:08		

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LINE 1
MAG MAG

STA	SCALE	READ	Δ	TIME	
BASE 13 OE	+1	92.5	925	12:12	
1E		89	890		
2		93	930		
3		94	940		
4		87	870		
5		93	930		
6		91	910		
7		89	890		
8		89	890		
9		88	880		
10 E		87	870	12:20	
11		98	980		
12		90	900		MISSION RD MIDDLE
13		96	960		
14		94	940		
15		86	860		
16		87	870		
17		88	880		
18		90	900		
19		89	890		
20S		87	870	12 26	
21		88	880		
22		89	890		
23		102	1020		
24		93	930		
25		92	920		
26		91	910		
27		97	970		
28		93	930		
29		89	890		

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LIME 13

MAC MAG

STA	SCALE	READ	8	TIME
30E	+1	94	940	12:34
31		88	880	
32		88	880	
33		88	880	
34		89	890	
35		91	910	
36		90	900	
37		89	890	
38		92	920	
39		90	900	
40E		90	900	12:39
41		90	900	
42		86	860	
43		87	870	
44		84	840	
45		88	880	
46		87	870	
47		87	870	
48		86	860	
49		88	880	
50E		87	870	12:45
51		94	940	
52		92	920	
53		96	960	
54		100	1000	
55		93	930	
56		90	900	
57		89	890	
58		92	920	
59		90	900	

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LINE 13

MAG MAG

STA	SCALE READ		TIME	
COE	+1	890	12:52	
61		880		
62		870		
63		900		ROAD
64		860		
65		790		
66		690		
67		830		
68		830		
69		840	12:57	WEDGE OF ALLUV DOWN
70E				

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LINE 14

MAG

STA	SCALE	READ	8	TIME	
69E	+1	81	810	1:03	W EDGE OF ALL PKG
68		81	810		
67		83	830		
66		95	950		
65		89	890		
64		86	860		
63		87	870		
62		82	820		
61		86	860		
60E		85	850	1:10	
59		94	940		
58		92	920		RAD
57		87	870		
56		86	860		
55		87	870		
54		88	880		
53		86	860		
52		83	830		
51		82	820		
50E		89	890	1:18	
49		86	860		
48		84	840		
47		88	880		
46		86	860		
45		87	870		
44		85	850		
43		86	860		
42		79	790		MAG FLOAT
41		82	820		
40E		84	840	1:25	

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LINE 14
MAG

STA	SCALE	READ	θ	TIME	
39E	+1	87	870		
38		82	820		
37		80	800		
36		80	800		
35		80	800		
34		82	820		
33		78	780		
32		76	760		
31		81	810		
30E		81	810	1 33	
29		82	820		
28		81	810		
27		82	820		
26		82	820		
25		82	820		
24		84	840		
23		83	830		
22		83	830		
21		86	860		20' TO HILL TOP
20E		82	820	1 45	
19		80	820		
18		80	820		
17		79	810		
16		79	820		
15		79	820		
14		78	830		
13		78	830		
12		76	810		
11		80	850		
10E		84	840	2 08	

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LINE 14

MAC - MLS

STA	SCALE READ		TIME	
9E	+1	85	900	
8		77	820	MISSION RD.
7		70	750	
6		72	770	
5		72	770	
4		75	810	
3		77	820	
2		75	800	
1		74	790	
0E		73	780	2:13
BASE 12		87		2:25
BASE 13		87		2:28
BASE 13		92		2:40
BASE 17	3/2 10/11	79		2:55
"		78	780	3:00
BASE 16		81	800	3:03
BASE 17		78		4:06

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LINE 15

MAG MAG

STA	SCALE READ		TIME	
BASE 15 OE	+1	81 810	3 08	TRASH
1W		82 820		
2W		84 840		
3W		82 820		
4W		81 810		
5W		83 830		
6W		83 830		
7W		83 830		
8W		83 830		
9W		84 840		
10W		83 830	3:18	
11		82 820		TOP OF RIDGE
12		82 820		
13		81 810		
14		84 840		
15		85 850		
16		83 830		
17		82 820		
18		82 820		
19		87 870		
20W		81 810	3:29	
21		83 830		
22		80 800		
23		80 800		OLD MINE
24		81 810		
25		79 790		
26		74 740		
27		75 750		
28		76 760		
29		73 730		
30W		73 730	3:37	

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		LINE 15				
		MAC	MAG			
		SCALE	READ			
		+1	81	810		
1			75	750		
2			86	860		
3			88	880		
4			86	860		
5			79	790		
6			82	820		
7			82	820		MISSION AD - SOE
8			82	820		
9			83	830		UV PUMP
10			80	805	12:10	
11			77	775		
12			83	835		
13			83	835		
14			81	815		
15			57	570		SAP VALVE H2O TANK 12:40
16		-2	207	-6210		
17		+1	80	805		
18			84	845		
19			84	845		
20			85	850	12:20	
21			83	840		
22			87	870		ADDLE
23			86	870		
24			85	860		
25			87	870		
26			86	870		
27			86	870		time [illegible]
28			88	890		
29			88	890		

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LINE 15

MAC MAG

7/19/65

LINE 16

STA	SCALE	READ	Y	TIME
30W		75	750	3:45
29		74	740	
28		73	730	
27		75	750	
26		73	730	
25		74	740	
24		73	730	
23		74	740	
22		79	790	
21		80	800	
20W		74	740	3:48
19		83	830	
18		84	840	
17		83	830	
16		82	820	
15		84	840	
14		84	840	
13		83	830	
12		81	810	
11		83	830	
10W		83	830	3:57
9		82	820	
8		82	820	
7		81	810	
6		82	820	
5		83	830	
4		82	820	
3		82	820	
2		82	820	
1		82	820	
0W		80	800	4:02

lo contact

top of RIDGE

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						S.W. Cor Alpha 7	N.W. Cor Alpha 18

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S+2	SCALE	ROAD	X	TIME	
21	+1	75	820	USE	
20E		68	680		
		49	560		
		46	530		BUILDINGS
		127	1340		
		63	700		
		69	760		
		25	320		
	-1	55	-480		
		0	70		
	-1	8	-10	2 USE	SAN XAVIER EXPRESS
	-1	4	30		
	+1	30	370		MISSION RD.
		54	610		
		54	610		
		70	770		
		69	760		
		67	740		
		74	810		
		73	800		
		73	800		
		74	810	2 USE	

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			17		

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Line 17

72	780	
61	670	
73	790	
77	830	
76	820	
71	760	
68	730	
64	690	
65	700	
80	850	
[illegible]	610	
[illegible]	690	
64	690	
73	780	

C.D.H.

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			LINE	18		
			MAC	MAG		
		SCALED		&	LINE	
			69	740		
			70	750		
			69	740		
			70	750		
			65	700		
			65	700		
			79	840		
			120	1280		
			111	1160		
			81	860		
			79	840		
			87	920		
			136	1410		
			65	700		
			55	600		
			69	740		
		IW	72	760		
			70	750		
			69	740		
			67	720		
			77	820		
			77	820		
			76	810		
			74	790		
			79	840		
		W	82	870		
			79	840		
			79	840		

1960 MISSION RD 1000 ft

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3/22/63

Buses MHC MAG

STA	SCALE	READ	D	TIME
BASE 1	1	79		11:23
BASE 17		83		11:34
"		80		11:48
"		80	780	11:50
BASE 16		82.5	810	11:55
BASE 15		81	810	11:59
BASE 7		72		2:20
"		72		2:31

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ANACONDA - MINERAL HILL

3-26-63

J.M.M.

R.P.

BASE READINGS

Sta	Scale	Read.	Corr.	Info
Base 17	+1	81		9:42
B 17	+1	79	780	9:45
115'/17	+1	58	690	12:20
Base 17	+1	67	790	12:25
"	"	68	780	1:15
Base 18	+1	65	740	1:20
Base 19	+1	90	950	1:25
14E/18	+1	53	600	1:56
Base 18	"	68	740	2:02
Base 19	"	93	950	2:06
Base 20		82	870	2:10
TBR 19	+1	72	760	3:46
TBR 18		52	640	3:51
Base 18		67	740	3:58
Base 19		95	950	4:00
Base 20		85	870	4:03

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3-26-63

ANACONDA - MINERAL HILL

LINE 17 - EAST

Sta	Scale	Read	Corr.	Info
11+50E	+1	70	690	9:57
12E	+1	68	670	
13E	+1	77	760	
14E	+1	52	510	
15E	+1	87	860	
16E	+1	106	1050	
17E	+1	118	1170	
18E	+1	140	1370	
19E	+1	123	1220	
20E	+1	84	850	+100
21E	+1	63	620	
22E	+1	59	580	
23E	+1	63	620	
24E	+1	69	680	
25E	+1	71	700	
26E	+1	100	990	
27E	+1	92	920	
28E	+1	75	750	
29E	+1	79	790	
30E	+1	80	800	+1010
31E	+1	75	760	
32E	+1	76	770	
33E	+1	78	770	
34E	+1	73	730	
35E	+1	73	730	
36E	+1	73	730	
37E	+1	74	740	
38E	+1	74	740	
39E	+1	81	810	
40E	+1	74	740	+1030

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LINE 19 EAST

Sta	Scale	Read	Con	Info	
41E	+	75	760		
42E	+	77	780		
43E	+	76	770		
44E	+	76	760		
45E	+	77	770		
46E	+	79	800		
47E	+	75	760	No. H.P. Ridge	1032
48E	+	76	780		
49E	+	78	800		
50E	+	74	760		1040
51E	+	77	790		
52E	+	77	800		
53E	+	77	800		
54E	+	76	790		
55E	+	76	790		
56E	+	75	780		
57E	+	76	790		
58E	+	77	800		
59E	+	74	770		
60E	+	73	760	P. A. Pt.	1051
61E	+	75	780		
62E	+	75	780		
63E	+	73	770		
64E	+	73	770		
65E	+	73	760		
66E	+	74	780		
67E	+	74	780		
68E	+	78	810		
69E	+	78	830		
70E	+	77	820		1058

LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

LINE 17

820
800
740
790
790
750
740
800
770
770
770
740
730
780
760
760
780
750

11:10
E/CUV
NWC
Alpha 10

ANACONDA - MINERAL NAME

LINE 18 WEST

3-26-63

TRI MK. REG. U.S. PAT. OFF.

ORIGINAL COPR. 1919 BY C. O. PARKER

LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

Sta	Side	Road	Cor	Tufo	
	11			Sue Alpland	
85E		65	720		1117
84E		69	760		
83E		67	740		
82E		68	750		
81E		68	750		
80E		70	770		
79E		75	750		
78E		73	850		
77E		67	740		
76E		72	790		1121
75E		65	720		
74E		72	790		
73E		73	800		
72E		72	790		
71E		78	854		
70E		75	820		
69E		77	840		
68E		75	820		
67E		71	780		
66E		73	810		1127
65E		71	780		
64E		72	780		
63E		70	780		
62E		70	780		
61E		71	790		
60E		72	780		
59E		70	780		
58E		72	800		
57E		70	780		

1138
1155
1203
28E
27E
26E

3-26-63

Line 18

Sta	Scale	Read	Corr	Info		
56E	+1	71	800			11:38
55E	+1	72	810			
54E		73	820			
53E		70	790	U.M. Ridge		11:46
52E		74	830			11:50
51E		71	800			
50E		70	790			
49E		70	790			
48E		72	810			
47E		71	800			11:55
46E		73	820			
45E		72	810			
44E		70	790			
43E		69	780			
42E		70	800			
41E		69	790			
40E		69	790			
39E		68	780			
38E		68	780			
37E		69	790			12:03
36E		69	790			
35E		67	770			
34E		67	770			
33E		68	780			
32E		65	750			
31E		65	750			
30E		84	940			
29E		59	690			
28E		60	700			
27E		57	670			12:08
26E		61	710			

ORIGINAL COPYR. 1910 BY [illegible] O. PARKER
LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.
TRI MK. REG. U.S. PAT. OFF.

ANACONDA - MINERAL HILL

3/26/63

LINE 18

Stat.	Scale	Read	Con	+ Pb
25E	+1	62	730	
24E	+1	60	710	
23E	+1	54	650	
22E	+1	78	910	
21E	+1	88	990	
20E	+1	9	100	
19E	+1	125	1350	MINE Dump
18E	+2	118	1280	
17E	+1	165	1750	
16E	+1	42	560	
15E	+1	42	560	T.B. Rd
14E	+1	49	6	1218

TRI MK. REG. U.S. PAT. OFF.

ORIGINAL COPR. 1910 BY A. D. PARKER

LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

3-26-63

East

		90	950			1:30
		92	970			
		65	700			
		63	680			
		62	670			
		62	680			
		66	710			
		77	820			
		70	750			
		68	730			1:40
		103	1080			
		191	1960			
		171	1810			
		164	1690			
		105	1100			
		67	720			
		68	730			
		117	1220			
		172	1770			
		180	1850			1:49
		90	950			
		71	760		w/s i.d. 78.nd	

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LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

3-26-63

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LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

Sta	Sta.	Road	Col.		
0 S/W		72	950		
1 W		73	810		
2 W		75	980.		
3 W		87	900.		
4 W		71	740		
5 W		63	660		
6 W		64	670		
7 W		64	670		
8 W		63	660		
9 W		64	670		
10 W		57	600		
11 W		62	650		
12 W		61	640		
13 W		63	660		
14 W		61	640		
15 W		74	770		
16 W		63	660		
17 W		67	700		
18 W		75	780		
19 W		62	650		
20 W		76	790		
21 W		72	750		
22 W		69	720		
23 W		60	630		
24 W		67	700		
25 W		73	760		
26 W		62	650		
27 W		67	700		
28 W		62	640		
29 W		63	660		
30 W		70	730		

Line 19 L Est

H-Fo

2:16

2:22

2:21

940

3-24-43

LINE 20 WEST

TRI MK. REG. U.S. PAT. OFF.

ORIGINAL COPR. 1910 BY [illegible] PARKER

LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

Sta	Hand	Total		
30W		780		247
29W	69	720		
28W	69	730		
27W	69	730		
26W	69	720		
25W	68	720		
24W	70	740		
23W	67	710		
22W	67	710		
21W	72	760		255
20W	70	740		
19W	69	730		
18W	74	780		
17W	68	720		
16W	63	670		
15W	75	790		
14W	72	760		
13W	70	740		
12W	77	810		
11W	74	780		
10W	67	710		301
9W	68	720		
8W	72	760		
7W	77	810		
6W	67	710		
5W	59	630		
4W	66	700		
3W	65	690		
2W	67	710		
1W	71	750		
0 E/W	83	870		308

3-26-63

TRI MK. REG. U.S. PAT. OFF.

LINE 20 EAST

Stat	Scale	Read	Corr
0 E/W	+1	[illegible]	-70
1 E		83	870
2 E		91	950
3 E		79	840
4 E		74	780
5 E		85	890
6 E		91	950
7 E		81	850
8 E		68	720
9 E		66	700
10 E		72	760
11 E		48	520
12 E		57	610
13 E		92	960
14 E		164	1700
15 E		119	1230
16 E		83	870
17 E		78	820
18 E		76	800
19 E		73	770
20 E		78	820
21 E		76	800
22 E		69	730
23 E		67	710
24 E		71	750
25 E		71	750
26 E		71	750
27 E		71	750
28 E		73	760
29 E		76	740
30 E		71	750

212

319

326

333

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LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

3-26-63

Line 20 East

Sta	Scale	Road	Con.
31 E	+1	70	740
32 E		70	740
33 E		76	800
34 E		70	740
35 E		69	730
36 E		71	750
37 E		72	760
38 E	↓	73	770

TR. Road 340

TRI MK. REG. U.S. PAT. OFF.

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LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

Standard Material Mill

3-7-67

Bases

Sta	Scale	Read	Corr	Info	
Base 17	+1	76	78	New batteries	9:58
TBR 17	+1	65	690		10:02
TBR 18	+1	58	600		10:08
TBR 19	+1	74	760		10:10
TBR 20	+1	74	770		10:12
TBR 20	+1	68	700		1:00
TBR 19	+1	70	760		1:05
Base 17	+1	67	780		1:18
Base 17	+1	67	780		1:40
TBR 19	+1	68	760		1:43
Base 20	+1	82	870		1:47
Base 21	+1	67	740		1:50
Base 21	+1	72	740		4:18
Base 20	+1	85	870		4:22

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LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

ANACONDA - MINERAL HILL

3-27-63

LINE 19 E

TRI-MK. REG. U.S. PAT. OFF.

Sta.	Scale	Read	Conv.			
				Init.		
21E	+1	74	760			1026
22E		73	750	Ea, S, G T.O. RR.		
23E		72	740			
24E		73	750			
25E		69	710			
26E		74	760			
27E		75	770			
28E		78	800			
29E		90	920			
30E		97X	990			1032
31E		79	810			
32E		75	770			
33E		70	720			
34E		74	760			
35E		79	810			
36E		76	790			
37E		76	790			
38E		79	820			
39E		78	810			
40E		79	820			1040
41E		81	840			
42E		79	820			
43E		80	830			
44E		82	850			
45E		81	840			
46E		81	840			
47E		80	830			
48E		81	840			
49E		82	850			
50E		76	790			
51E		73	760			1048

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ARACOMA - MINERAL HILL

3-27-63

LINE 19E

Sta	Scale	Peak	Con	Elev	H.P.	R.	Age
52E	+1	74	780				10.58
53E		79	830				
54E		82	860				
55E		80	840		H.P.	R.	Age
56E		80	840				11.12
57E		74	780				
58E		75	790				
59E		73	770				
60E		74	780				
61E		74	780				11.30
62E		73	775				
63E		73	775				
64E		73	775				
65E		73	775				
66E		73	770				
67E		73	780				
68E		74	790				
69E		74	790				
70E		74	790				
71E		73	780				11.40
72E		73	780				
73E		77	820				
74E		78	830				
75E		73	780				
76E		71	760				
77E		71	760				
78E		69	730				
79E		70	750				
80E		73	785				
81E		70	750				
82E		69	745				11.45

ANACONDA MINERAL HILL 3-27-63

LINE 19E

Sta	Scale	Read	Corr	Y Corr
83E	4	72	775	
84E		75	805	
85E		72	775	
86E		68	735	
87E		72	775	
88E		67	725	
89E		61	665	
90E	↓	75	805	11:50

TRADEMARK REG. U.S. PAT. OFF.

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LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

ANACONDA - MINERAL HILL

LINE 20 E

3-27-62

Sta	Scale	Read	Cm	Info	
90E	+1	65	710		1155
89E		62	680		
88E		61	670		
87E		65	710		
86E		65	710		
85E		72	790		
84E		59	650		
83E		66	720		
82E		60	660		
81E		74	800		1200
80E		61	675		
79E		68	745		
78E		65	715		
77E		68	745		
76E		65	715		
75E		62	685		
74E		62	685		
73E		71	775		
72E		70	765		
71E		65	715		1205
70E		67	735		
69E		67	735		
68E		67	735		
67E		67	735		
66E		68	750		
65E		70	770		
64E		68	750		
63E		67	740		
62E		70	770		
61E	↓	69	765		1219

TRI MK. REG. U.S. PAT. OFF.

ORIGINAL COPR. 1910 BY A. O. PARKER

LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

ANACONDA MINERAL HILL

3-27-63

LINE 70 E

Sta.	Scale	Road	Con.			
60E	+1	70	775			
59E		72	795			
58E		71	785	12:28	H.P. Ridge	
57E		72	795			
56E		70	780			
55E		69	770			
54E		72	800			
53E		70	780			
52E		72	800			
51E		70	780			1250
50E		68	760			
49E		70	780			
48E		72	800			
47E		72	800			
46E		72	800			
45E		69	775			
44E		75	835			
43E		69	775			
42E		74	825			
41E		70	785			1258
40E		69	775			
39E		68	770			
38E	V	68	770			1.00

TRI-MK. REG. U.S. PAT. OFF.

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LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

Anaconda Mineral Co.

Line 21 E

3-27-63

TRI-MK REG. U.S. PAT. OFF.

Sta	Scale	Read	Con	Info	
0 E/W	+1	67	740		150
1E		76	830		
2E		73	800		
3E		84	910		
4E		79	860		
5E		71	780		
6E		67	740		
7E		67	740		
8E		70	770		
9E		105	1120		
10E		127	1340		2100
11E		146	1530		
12E		134	1410		
13E		163	1700		
14E		175	1820		
15E		98	1050		
16E		154	1610		
17E		92	985		
18E		78	845		
19E		79	955		
20E		89	955		208
21E		99	1055		
22E		90	965		
23E		73	795		
24E		78	845		
25E		72	785		
26E		71	770		
27E		71	770		
28E		68	740		
29E		67	730		
30E		70	760		215

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Lines 21E

Sta	Scale	Road	Cor.	Notes	
31E		70	760		
32E		70	760		
33E		70	760		
34E		69	750		
35E		68	730		
36E		67	730		
37E		67	730		
38E		70	760		
39E		72	780		
40E		70	760		220
41E		70	760		
42E		70	760		
43E		72	785		
44E		68	735		
45E		72	775		
46E		72	785		
47E		75	805		
48E		75	805		
49E		75	805		
50E		75	805	T.B. Rd	228
51E		74	795		
52E		73	785		
53E		71	765		
54E		78	835		
55E		80	850		
56E		75	800		
57E		73	780		
58E		75	800		
59E		74	790		
60E		74	790		235
61E		72	770		

LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

3-27-63

LINE 21 E

Sta	Scale	Read	Corr.	+ or -		
62E		92	770			
63E		78	830			
64E		79	840			
65E		75	800			
66E		80	850	So + P W.P.		
67E		80	850			
68E		77	820			
69E		72	770			
70E		71	760			242
71E		72	770			
72E		71	760			
73E		70	750			
74E		70	750			
75E		82	870			
76E		77	820			
77E		66	710			
78E		68	730			
79E		69	740			
80E		74	790			247
81E		68	730			
82E		68	730			
83E		68	730			
84E		66	710			
85E		66	710			
86E		68	730			
87E		68	730			
88E		70	750			
89E		69	740			
90E		68	730			255

TR. MK. REG. U.S. PAT. OFF.
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LEFAX PHILADELPHIA 7, PA., MADE IN U.S.A.

ANACONDA - MINERAL HILL

3-27-63

LINE 22 EAST

Stat.	Scale	Read	Corr.	± Info	
90E	+1	45	500		308
89E		47	520		
88E		50	545		
87E		58	625		
86E		55	595		
85E		60	645		
84E		61	655		
83E		65	695		
82E		62	666		
81E		64	685		315
80E		63	675		
79E		72	765		
78E		65	695		
77E		61	655		
76E		65	695		
75E		63	670		
74E		62	660		
73E		63	670		
72E		69	730		
71E		67	710		326
70E		72	760		
69E		72	760		
68E		68	720		
67E		76	800		
66E		67	710		
65E		66	700		
64E		67	710		
63E		67	710		
62E		70	740		
61E		69	730		330
60E		74	780	T.B.Rd.	

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LEFAX PHILADELPHIA 7, PA., MADE IN U.S.A.

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

		Read			
59E	+1	68	715		
58E		68	715		
57E		70	735		
56E		68	715		
55E		70	735		
54E		68	715		
53E		72	755		
52E		72	755		
51E		72	755		3135
50E		73	765		
49E		68	715		
48E		67	705		
47E		67	705		
46E		75	780		
45E		73	760		
44E		70	730		
43E		66	690		
42E		67	700		
41E		67	700		350
40E		69	720		
39E		65	680		
38E		66	690		
37E		66	690		
36E		67	700		
35E		64	670		
34E		64	670		
33E		63	660		
32E		65	680		
31E		63	660		355
30E		64	660		

LEFAX PHILADELPHIA 7, PA., MADE IN U.S.A.

ORIGINAL COPR. 1916 BY J. C. PARKER

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

		Read			
29 E		67	690		
28 E		68	700		
27 E		68	700		
26 E		71	730		
25 E		71	730		
24 E		70	720		
23 E		76	780		
22		85	870		
21		74	760		
20		98	1000		402
19		70	720		
18		70	720	MINE	
17					

LEFAX PHILADELPHIA 7, PA., MADE IN U.S.A.

GRAVITY Survey

Anaconda Co.

Line "E" Banner Prop.

May 17, 1963

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

ORIGINAL COPR. 1918 BY L. O. P.

LEFAX PHILADELPHIA 7, PA., MADE IN U.S.A.

5/17/63 Gravity Notes

HEINRICHS GEOEXPLORATION COMPANY

K = .096194

Sta	Time	Read	Elev	Δ	TR. MK. REG. U.S. PAT. OFF. corr	Sta grav.
60+00	1:45	5135	3445.25	0	0	
60+00	1:48	5135		0	0	
60+00	1:52	5135		0	0	5135
62+50	2:00	5050	3447.80	+27	+27	5077
65+00	2:08	4956	3450.9	+27	+54	5010
60+00	2:14	5064		+17	+71	5135
65+00	2:20	4908		107	+102	5010
67+50	2:27	4850	3448.85	-1	+101	4951
70+00	2:32	4843	3448.09	-3	+99	4942
65+00	2:39	4912		-4	+98	5010
70+00	2:50	4843		99	+99	4942
72+50	3:00	4910	3450.73	-3	+96	5006
75+00	3:10	4845	3446.05	-4	+92	4937
70+00	3:23	4854		-4	+88	4942
75+00	3:32	4858		+79	+79	4937
77+50	3:40	4803	3473.29	-6	+73	4876
80+00	3:47	4712	3468.46	-5	+68	4780
75+00	3:55	4874		-5	+63	4937
80+00	4:02	4729		+51	+51	4780
82+50	4:10	4532	3517.53	+1	+52	4584
85+00	4:20	4022	3567.75	+2	+54	4076
80+00	4:30	4725		+1	+55	4780
85+00	4:40	4033			+43	4076
87+50	4:50	3658	3549.15	+2	+45	3703
90+00	4:58	3463	3575.56	+2	+47	3510
92+50	5:06	3603	3551.23	+1	+48	3651
90+00	5:13	3468		+1	+49	3517
80+00	5:26	4729		+2	+51	4780
70+00	5:45	4869			+73	4942
60+00	5:58	5136			-1	5135

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LEFAX PHILADELPHIA 7, PA., MADE IN U.S.A.

5/18/63

Sta	Time	Read			TR. MK. REG. U.S. PAT. OFF.
60+00	9:50	5118		+ 17	5135
60+00	9:52	5125		+ 10	5135
60+00	9:55	5133		+ 2	5135
57+50	10:00	5152	+ 0	+ 2	5154
~~55+00~~ 54+60	10:03	5268	+ 3	+ 5	5273
60+00	10:09	5128	+ 2	+ 7	5135
~~55+00~~ 54+60	10:14	5279		- 6	5273
52+50	10:20	5174	1	- 7	5167
50+00	10:26	4843	1	- 8	4835
~~55+00~~ 54+60	10:38	5281	+ 0	- 8	5273
50+00	10:45	4854		- 19	4835
47+50	10:52	4668	1	- 20	4648
45+00	11:01	5068	2	- 22	5046
50+00	11:10	4858	+ 1	- 23	4835
45+00	11:20	5067		- 21	5046
42+50	11:27	5297	1	- 20	5277
40+00	11:35	5053	0	- 20	5033
45+00	11:43	5065	1	- 19	5046
40+00	11:52	5041		- 8	5033
37+50	12:15	5058	+ 34	+ 26	5084*
35+00	12:21	5155	+ 33	+ 60	5215*
40+00	12:30	4840	MISS READ + 33	+ 93	5033*
35+00	12:37	5159		+ 56	5215*
32+50	12:45	5378		+ 60	5438*
30+00 +50	12:51	5540		+ 64	5604*
27+50	12:57	5594		+ 68	5662*
30+00	1:02	5551		+ 72	5623*
40+00	1:15	4958		+ 75	5033*
50+00	1:26	4776		+ 59	4835
60+00	1:34	5057		+ 78	5135

ORIGINAL COPR. 1946 BY J. C. PARKER

LEFAX PHILADELPHIA 7, PA., MADE IN U.S.A.

$$\frac{0.09406 \text{ mgls/ft.}}{2.6 \text{ feet}}$$

0.244556 mgls.

2.44556 gal.

$$\frac{0.244556 \text{ mg}}{0.096194 \text{ mg/div}} = \text{div.}$$

$= 2.3$ div.

3900
.06 ¢/SA
2640.00

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

Level survey
for
Anaconda. Gravity survey
May 15, 1963

J. W. M. & D. McC.

ORIGINAL COPR. 1918 BY A. O. PARKER

LEFAX PHILADELPHIA 7, PA., MADE IN U.S.A.

Sta	B.S.	H.I.	F.S.	Elev.	Dist.	Notes
	B.M.			3477		
		+0.08		3477.08	156'	
			11.84	65.24	177'	162°17'
	2.14			67.38	116'	
			11.32	56.06	171'	
	1.79			57.85	133'	
			12.64	3445.21	164'	
	7.26			52.47	80'	
			5.07	47.40	174	
→	10.11			58.51	69	57.57
			1.56	56.95	84	55.95
	10.60			67.55	155	66.55
			7.06	60.49	57	59.49
			1.60	65.95	113	64.95
	9.57			75.52	138	74.52
			6.67	68.85	53	67.85
			7.43	68.09	208	67.09
	4.39			72.48	177	71.48
			11.75	60.73	45	59.73
			4.58	67.90	256	66.90
	4.81			72.71	36	71.71
			6.66	66.05	15	65.05
			1.32	71.39	208	70.39
	10.06			81.45	91	80.45
			8.16	73.29	50	72.29
			0.69	80.76	104	79.76
	11.38			92.14	85	91.14
			3.68	88.46	21	87.46
			1.31	90.83	87	89.83

ORIGINAL COPR. 1916 BY L. O. PARKER

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

Blue & yellow flag.

T.D. Remarks

1st Transit setup 5.24' H.I.
Hor. Circle 65° 51'

LINE "E" Sta. 60

6080	
6250	Sta. 62+50
6319	
6403	
6558	
6501	Sta. 65+00
6671	Sta. edge of [illegible]
6809	at Flag 68E
6756	Sta. 67+50
7017	Sta 70+00
7194	at flag 72E
7239	Sta 72+50 Edge of Trash Bank
7450	
7486	
7501	Sta. 75+00
7694	
7785	at 78E Flag
7735	Sta. 77+50
7889	
7974	
7995	Flag & Sta 80+00
8061	

LEFAX PHILADELPHIA 7, PA., MADE IN U.S.A.

Sta	B.S	H.I.	F.S	Elev.	Dist	
	12.47			3503.30	54	02.30
				[redacted]		
			0.82	502.48	49	3501.48
	11.72			14.20	32	13.20
			1.50	12.70	18	11.70
	11.35			24.05	20	23.05
			6.48	17.57	8	16.57
			0.14	23.91	30	22.91
	11.51			35.42	20	34.42
			1.36	34.06	13	33.06
	11.68			45.74	20	44.74
			0.32	45.42	16	44.42
	11.76			57.18	22	56.18
			1.21	55.97	35	54.97
	11.92			67.89	18	66.89
			0.19	67.70	19	66.70
	10.95			78.65	16	77.65
			0.42	78.23	24	77.23
	12.11			90.34	22	89.34
			2.59	87.75	25	86.75
	12.52			3600.27	20	99.27
			0.57	599.70	15	98.70
	11.85			611.55	15	3610.55
			0.88	610.67	18	09.67
	12.01			22.68	30	21.68
			0.78	21.90	42	20.90
	11.43			33.33	26	32.37
			0.56	32.77	19	31.77
	11.55			44.32	35	43.32
			0.19	44.13	24	43.13
						3643.13

Total Dist	Info
8115	
8164	
8196	about 10' beyond 82 flag
8214	
8234	
8242	82+50 Sta.
8272	
8292	
8305	
8325	
8341	
8363	
8378	
8396	Flag 84
8415	
8431	
8455	
8477	
8502	Sta 85+00
8522	
8537	
8552	
8570	
8600	flag
8642	
8668	
8687	
8722	
8746	Sta. 87+500

ORIGINAL COPR. 1918 BY A. C. PARKER
TR. MK. REG. U.S. PAT. OFF.
LEFAX PHILADELPHIA 7, PA., MADE IN U.S.A.

Sta	A C	L	F.S.	⟨ Tan	DIST	
	11.67		36	55.80	36	3654.80
			1.41	54.39	20	53.39
	12.40			66.79	46	65.79
			2.86	63.93	61	62.93
	11.10			75.03	50	74.03
			1.10	73.93	26	72.93
	3.65			77.58		76.58
			2.02	3675.56		7456
			7.30	70.28		69.28
	2.08			72.36		71.36
			11.74	60.62		59.62
	1.78			62.40		61.40
			9.17	53.23		52.23
			10.90	51.50		50.50
	2.24			53.74		52.74
			12.62	41.12		40.12
	1.06			42.18		41.18
			13.05	29.13		28.13
→	1.25			30.48		29.38
			11.98	18.50		17.40
	0.44			18.94		17.84
			13.05	5.89		4.79
	0.97		36	6.86		5.76
			12.34	94.52		93.42
	0.33			94.85		93.75
			11.79	83.06		81.96
	0.41			83.47		82.37
			11.34	72.13		71.03
	1.23			73.36		72.26
			12.00	61.36		60.26

ORIGINAL COPR. 1918 BY L. O. PARKER

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

Total Dist

8782

8802

8848

8909

8959

8985

Info.

Flag 88

Sta 90+00

Heading back to B.M. & check tie

Sta. 92+50

LEFAX PHILADELPHIA 7, PA., MADE IN U.S.A.

Sta	B.S.	H.I.	F.S.	Elev	D.S.L
	0.16			3561.52	3560.42
			12.84	48.68	47.58
	2.09			50.77	49.67
			12.43	38.34	37.24
	2.88			41.22	40.12
			11.93	29.29	28.19
	0.20			29.49	28.39
			12.51	16.98	15.88
	1.56			18.54	17.44
			12.40	6.14	5.04
	0.55			6.69	5.59
			12.81	3493.88	3492.78
	0.21			94.09	92.99
			11.96	82.13	81.03
	3.25			85.38	84.28
			7.00	3478.38	3477.28
			↘ B.M.		

Total Dr

Info.

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

ORIGINAL COPR. 1919 BY J. C. PARKER

LEFAX PHILADELPHIA 7, PA., MADE IN U.S.A.

MAY 16 1963

50.00 Line From 60+00

Sta	Dist	H.I.	F.S.	Elev.	Dist.
	8.26			53.47	82
			5.17	48.30	148
	3.93			52.23	74
			11.49	40.74	147
	8.22			48.96	105
			8.95	40.01	63
			1.62	47.34	52
	11.56			58.90	58
			1.425	57.475	31
	12.205			69.68	45
			3.905	65.775	10
			1.40	68.28	26
	12.125			80.405	44
			0.745	79.660	21
	11.95			91.61	35
			0.74	90.87	21
	12.02			502.89	31
			0.18	502.71	20
	12.15			514.86	34
			2.56	12.30	12
	12.09			24.39	31
			2.105	22.285	29
	11.505			33.79	32
			2.22	31.57	45
	10.26			41.83	104
			5.69	36.14	8
	~~10.1~~		10.11	31.72	60
	2.60			34.32	14
			12.90	21.42	80

ORIGINAL COPR. 1950 BY J. C. PARKER

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

Total Dist

Info:

Elev. of Control is 3445.21

5918
5770 — Sta. 57+50
5696
5549
5444 — Set up at 54+00
5507 — or 54.63 sta. 55+00
5392
5234
5203
5158
5148 — Sta 52+50
5132
5088
5067
5032
5011
4980
4960
4926
4914 — Sta 50+00
4969
4940
4908
4863
4759
4751 — Sta 47+50
4699
4685
4655

LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

Sta.	B.S.	H.I.	F.S.	Elev.	Dist.
	1.51			522.93	27
			11.95	10.98	30
	0.95			11.93	14
			13.14	498.79	25
	1.435			500.225	14
			11.875	88.350	20
	1.10			89.45	12
			13.215	76.235	22
	0.875			77.11	21
			12.86	64.25	25
	0.35			64.60	18
			10.18	54.42	243
	1.95			56.37	26
			12.05	44.32	55
	10.49			64.91	37
			0.535	64.375	20
	9.95			74.325	36
			1.475	72.85	26
	10.34			83.19	36
			1.99	81.20	32
	11.51			92.71	58
			9.79	82.92	93
	2.10			85.02	21
	~~12.51~~		~~12.51~~	~~72.51~~	~~270~~
			12.72	72.30	42
	1.47			73.77	19
			8.36	65.41	24
			0.78	72.99	127
	1.49			74.48	21
			10.05	64.43	46
	1.16			65.59	16

ORIGINAL COPR. 1910 BY J. C. PARKER

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

Total Dist	Info.
4628	
4598	Flag 46
4584	
4569	
4555	
4535	
4523	
4501	Sta. 45+00
4480	
4455	
4437	
4194	
4220	near flag 42
4275	Sta 42+50
4157	
4137	
4101	
4075	
4039	
4007	Flag sta 40+00
3949	
3856	
3835	
~~3825~~	
3793	Flag 38
3774	
3750	Sta. 37+50
3647	
3626	
3580	
3564	

LEFAX PHILADELPHIA 7, PA., MADE IN U.S.A.

Sta	B.S.	N.T.	F.S.	Elev.	Dist.		
			12.44	53.15	41		
	0.81			53.96	19		
			12.63	41.33	44		
	2.75			43.58	42		
			12.25	31.33	78		
	0.48			31.81	46		
			8.51	23.30	26		
			12.22	19.59	50		
	2.40			21.99	24		
			12.17	9.82	67		
	4.46			14.28	38		
			11.71	2.57	92		
	0.61			3.18	50		
			8.51	94.67	76		
	7.05			401.72	71		
			5.21	396.51	58		
			Head	toward	Pt E	S.M.	
	10.21			406.72			
			8.00	398.72			
	3.37			402.09			
			6.23	95.86			
	9.57			05.43			
			1.34	4.09			
	10.36			14.45			
			0.61	13.84			
	11.14			24.98			
			1.80	23.18			
	7.97			31.15			
			1.50	29.65			
	9.68			39.33			
			0.20	39.13			

Total Dist	Info
3523	Sta. 35+00
3504	
3460	
3418	Pl Flag 34
3322	
3276	
3250	Sta. 32+50
3226	
3202	
3135	
3097	
3005	Flag & Sta 30+00
2880	
2804	
	Flag 28
	Sta. 27+50

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ORIGINAL COPR. 1950 BY A. O. PARKER
LEFAX PHILADELPHIA 7, PA., MADE IN U.S.A.

Stn	R.L	N.S	F.S.	R.L	Dist		
	12.82			51.95			
			0.93	51.02			
	11.91			62.93			
			0.72	62.21			
	11.35			73.56			
			1.92	71.64			
	9.28			80.92			
			3.88	77.04			

Total Dist = Info.

To B.M. 3477.04
3477

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

ORIGINAL COPR. 1919 BY J. O. PARKER

LEFAX PHILADELPHIA 7, PA., MADE IN U.S.A.

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

Level Survey
for
Anaconda Gravity Survey
May 15, 1963

J. W. M. & D. McC.

Line "E"

ORIGINAL COPR. 1919 BY J. C. PARKER

LEFAX PHILADELPHIA 7, PA., MADE IN U.S.A.

B.S	H.I	F.S.	Elev.	Info
B.M.			3477	W. side T. B. Rd
+0.08	3477.08	-11.84	3465.24	
2.14	67.38	11.32	56.06	
1.79	57.85	12.64	45.21	sta. 60+00 Line "E"
7.26	52.47	5.07	47.40	sta. 62+50 "
10.11	57.51	1.56	55.95	
10.60	66.55	7.06	59.49	sta. 65+00
		1.60	64.95	
9.57	74.52	6.67	67.85	sta 67+50
		7.43	67.09	sta 70+00
4.39	71.48	11.75	59.73	sta 72+50
		4.58	66.90	
4.81	71.71	6.66	65.05	sta. 75+00
		1.32	70.39	
10.06	80.45	8.16	72.29	sta. 77+50
		0.69	79.76	
11.38	91.14	3.68	87.46	sta. 80+00
		1.31	89.83	
12.47	3502.30	0.82	3501.48	
11.72	13.20	1.50	11.70	
11.35	23.05	6.48	16.57	sta. 82+50
		0.14	22.91	
11.51	34.42	1.36	33.06	
11.68	44.74	0.32	44.42	
11.76	56.18	1.21	54.97	
11.92	66.89	0.19	66.70	
10.95	77.65	0.42	77.23	
12.11	89.34	2.59	86.75	sta. 85+00
12.52	99.27	0.57	98.70	
11.85	3610.55	0.88	3609.67	
12.01	21.68	0.78	20.90	

B.S.	H.I	F.S.	Elev	Info
11.43	3632.33	0.56	3631.77	
11.55	43.32	0.19	43.13	Sta. 87+50
11.67	54.80	1.41	53.39	
12.40	65.79	2.86	62.93	
11.10	74.03	1.10	72.93	
3.65	76.58	2.20	74.56	Sta 90+00
		7.30	69.28	
2.08	71.36	11.74	59.62	
1.78	61.40	9.17	52.23	Sta. 92+50
	Head	back to B.M.		
		10.90	50.50	
2.24	52.74	12.62	40.12	
1.06	41.18	13.05	28.13	
1.25	29.38	11.98	17.40	
0.44	17.84	13.05	04.79	
0.97	05.76	12.34	3593.42	
0.33	3593.75	11.79	81.96	
0.41	82.37	11.34	71.03	
1.23	72.26	12.00	60.26	
0.16	60.42	12.84	48.68	
2.09	49.67	12.43	37.24	
2.82	40.12	11.93	28.19	
0.20	28.39	12.51	15.88	
1.56	17.44	12.40	05.04	
0.55	05.59	12.81	3492.78	
0.21	3492.99	11.96	81.03	
3.25	84.28	7.00	3477.28	

Mistie: 0.28 feet

ORIGINAL COPR. 1910 BY J. O. PARKER
LEFAX PHILADELPHIA 7, PA., MADE IN U.S.A.
TR. MK. REG. U.S. PAT. OFF.

Level Notes — May 16, 1963 — Line "E"

HEINRICHS GEOEXPLORATION COMPANY

B.S.	H.I.	F.S.	Elev.	Info.
			3445.21	sta. 60+00
8.26	3453.47	5.17	48.30	sta. 57+50
3.93	52.23	11.49	40.74	
8.22	48.96	8.95	40.01	sta. 55+00
		1.62	47.34	
11.56	58.90	1.425	57.475	
12.205	69.68	3.905	65.775	sta. 52+50
		1.40	68.28	
12.125	80.405	0.745	79.66	
11.95	91.61	0.74	90.87	
12.02	502.89	0.18	502.71	
12.15	514.86	2.56	12.30	sta. 50+00
12.09	24.39	2.105	22.285	
11.505	33.79	2.22	31.57	
10.26	41.83	5.69	36.14	sta. 47+50
		10.11	31.72	
2.60	34.32	12.90	21.42	
1.51	22.93	11.95	10.98	
0.95	11.93	13.14	498.79	
1.435	500.225	11.875	88.35	
1.16	89.45	13.215	76.235	sta. 45+00
0.875	77.11	12.86	64.25	
0.35	64.60	10.18	54.42	↙ shooting back
1.95	56.37	12.05	44.32	sta. 42+50
10.49	64.91	0.535	64.375	
9.95	74.325	1.475	72.85	
10.34	83.19	1.99	81.20	sta. 40+00
11.51	92.71	9.79	82.92	
2.10	85.02	12.72	72.30	
1.47	73.77	8.36	65.41	sta. 37+50
		0.78	72.99	

B.S.	H.I.	F.S.	Elev.	Info.
1.49	3474.48	10.05	3464.43	
1.16	65.59	12.44	53.15	Sta. 35+00
0.81	53.96	12.63	41.33	
2.25	43.58	12.25	31.33	
0.48	31.81	8.51	23.30	Sta. 32+50
		12.22	19.59	
2.40	21.99	12.17	9.82	
4.46	14.28	11.73	2.57	Sta. 30+00
0.61	3.18	8.51	3394.67	
7.05	3401.72	5.21	3396.51	Sta 27+50
	Head	toward	B.M.	to tie
10.21	06.72	8.00	398.72	
3.37	402.09	6.23	95.86	
9.57	05.43	1.34	404.09	
10.36	14.45	0.61	13.84	
11.14	24.98	1.80	23.18	
7.97	31.15	1.50	29.65	
9.68	39.33	0.20	39.13	
12.82	51.95	0.93	51.02	
11.91	62.93	0.72	63.21	
11.35	73.56	1.92	71.64	
9.28	80.92	3.88	3477.04	

Misfie : 0.04 feet

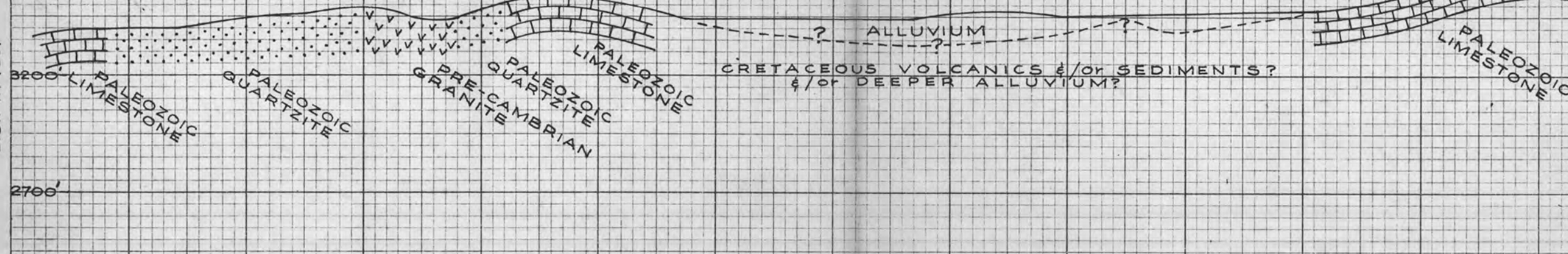
TR. MK. REG. U.S. PAT. OFF.
ORIGINAL COPR. 1910 BY A. O. PARKER
LEFAX PHILADELPHIA 7, PA., MADE IN U.S.A.

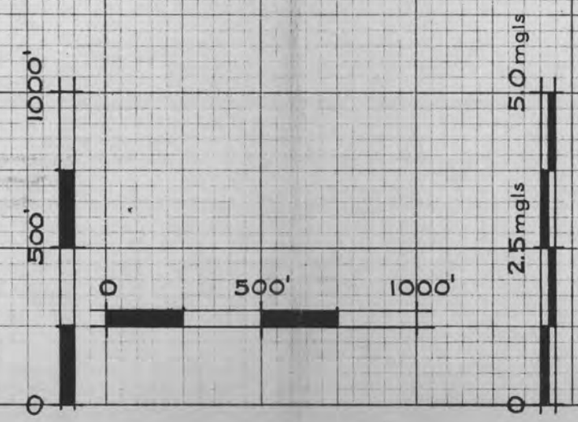
N ← 30+00 40+00 50+00 60+00 70+00 80+00 90+00 → S

LINE E - LOOKING EAST

Milligals: 260, 259, 258, 257, 256, 255

Elev. in feet: 3700', 3200', 2700'





Geology c/o U.S.G.S.
Bull. # 1112C
by Cooper of 1960

COMPOSITE PROFILE LINE E

Gravity, Surface & Surface Geology
Mineral Hill Area – Pima County, Ariz.
for
THE ANACONDA COMPANY
by
HEINRICHS GEOEXPLORATION COMPANY
P.O. Box 5671 TUCSON, ARIZ.

Scale: 1" = 500' &
1" = 2.5 milligals

May 1963

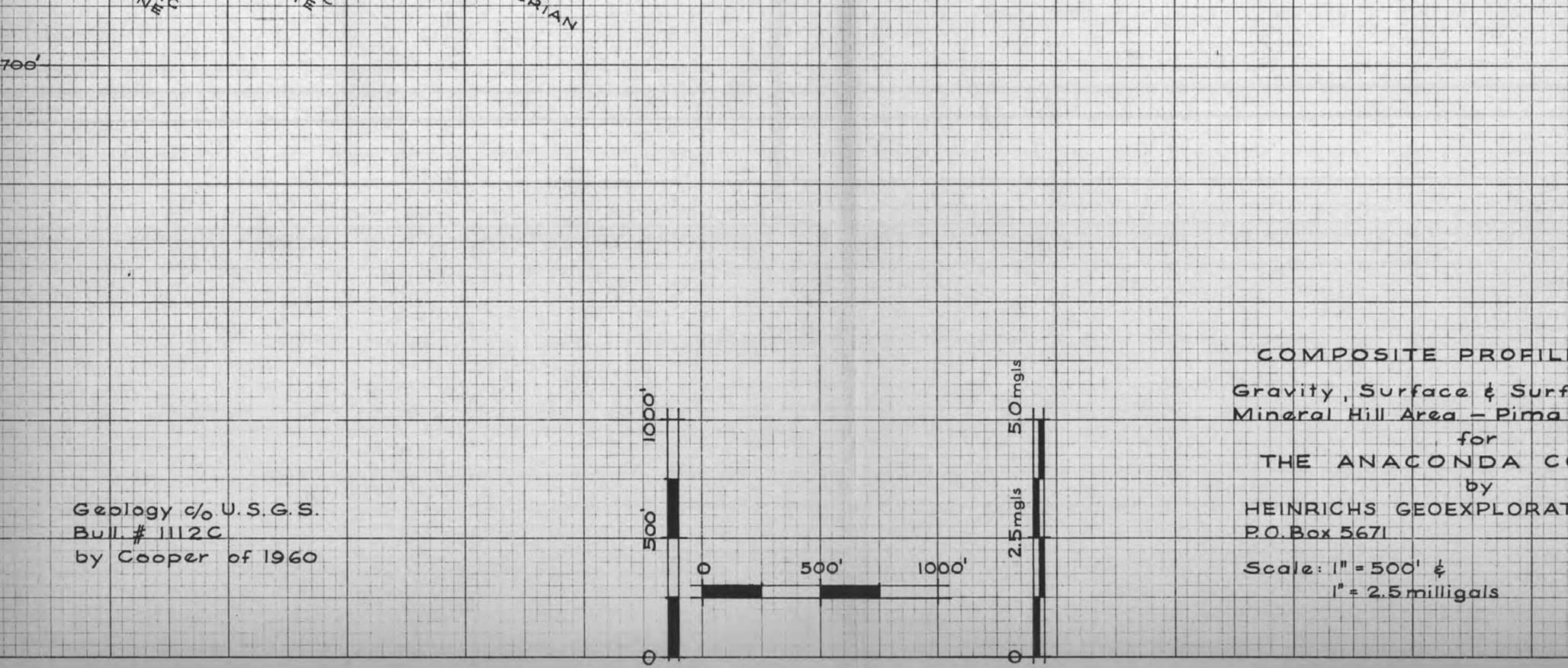
K&E 10 X 10 TO THE INCH 359-5DLG
KEUFFEL & ESSER CO. MADE IN U.S.A.

N ← 30+00 40+00 50+00 60+00 70+00 80+00 90+00 → S

LINE E - LOOKING EAST

Milligals: 260, 259, 258, 257, 256, 255

Elev. in feet: 3700', 3200', 2700'



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K+E 10 X 10 TO THE INCH 359-5DLG
KEUFFEL & ESSER CO. MADE IN U.S.A.

HEINRICHS GEOEXPLORATION COMPANY

.6025 gu for δ=2.65

.6535 gu for δ=2.25

5/20/63

	STA	Elv	gu ① Drift Corrected	Elv ② + Bouguer Correction	gu ③ 1+2	Latitude Cor 3 + Lat Corr ④	Elv + Bouguer Cor ⑤	1+5 ⑥	⑦	⑧	⑨	⑩
1	27+50	3396.51	5447	20464	25911	25911	22196	27643				
2	30+05	3402.57	5391	20500	25891	25897	22236	27627				
3	32+50	3423.30	5231	20625	25856	25869	22371	27602				
4	35+00	3453.15	5017	20805	25822	25841	22566	27583				
5	37+50	3465.41	4891	20880	25771	25797	22646	27537				
6	40+00	3481.20	4841	20974	25815	25847	22750	27591				
7	40+25	3444.32	5076	20752	25828	25866	22509	27585				
8	40+50	3476.24	4854	20944	25798	25843	22717	27571				
9	40+75	3536.14	4471	21305	25776	25827	23109	27586				
10	50+00	3512.30	4651	21162	25815	25873	22953	27604				
11	52+50	3465.78	4970	20881	25851	25915	22649	27619				
12	55+00	3440.01	5072	20726	25798	25869	22480	27552				
13	57+50	3448.30	4958	20776	25734	25811	22535	27493				
14	60+00	3445.21	4940	20757	25697	25780	22514	27454				
15	62+50	3447.40	4884	20771	25655	25745	22529	27413				
16	65+00	3459.49	4819	20843	25662	25758	22608	27427				
17	67+50	3467.85	4763	20894	25657	25760	22662	27425				
18	70+00	3467.09	4754	20889	25643	25752	22657	27411				
19	72+50	3459.73	4815	20845	25660	25776	22609	27424				
20	75+00	3465.05	4749	20877	25626	25748	22644	27393				
21	77+50	3472.29	4690	20921	25611	25738	22691	27381				
22	80+00	3487.46	4598	21012	25610	25745	22791	27389				
23	82+50	3516.57	4410	21187	25597	25738	22981	27391				
24	85+00	3586.75	3921	21610	25531	25678	23439	27360				
25	87+50	3643.13	3562	21950	25512	25666	23808	27370				
26	90+00	3674.56	3376	22139	25515	25676	24013	27389				
27	92+50	3652.23	3512	22005	25517	25684	23867	27379				
28												
29												
30												
31												
32												

643
2/68
2/63

			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	
1													1
2													2
3													3
4													4
5													5
6													6
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9													9
10													10
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30													30
31													31
32													32

HEINRICHS GEOEXPLORATION COMPANY

St 2 92+50 elv 3652.23 (3650) — Terrain Correction — Coal Head — 5/20/63

	Zone		①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩ Total corr my g
1	D	Elv	3600	3650	3650	3650						
2		Diff	50	0	0	0						
3		Corr	2									2.0
4												
5	E	Elv	3600	3550	3500	3550	3500	3550	3650	3500		
6		Diff	50	100	150	100	150	100	0	150		
7		Corr	.4	2.0	4.0	2.0	4	2.0	0	4.0		18.4
8												
9	F	Elv	3550	3550	3500	3550	3400	3450	3500	3550		
10		Diff	100	100	150	100	250	200	150	100		
11		Corr	1.0	1.0	2.0	1.0	4.0	3.0	2.0	1.0		15.0
12												
13	G	Elv	3450	3550	3700	3600	3600	3550	3500	3700	3400	3400 3450 3500 3450
14		Diff	200	100	50	50	50	100	150	50	250	250 200 150 200
15		Corr	1.0	.2	0	0	.0	.2	.4	0	1.0	1.0 1.0 .4 1.0 6.2
16												
17	H	Elv	3650	3650	3550	3500	3400	3350	3350	3400	3350	3450 3550 3600
18		Diff	0	0	100	150	250	300	300	250	300	200 100 50
19		Corr	0	0	.1	.2	.5	1.0	1.0	1.0	1.0	.4 .1 0 7.3
20												
21	I	Elv	3250	3350	3450	3600	3750	3750	3700	3550	3400	3300 3200 3250
22		Diff	400	300	200	50	100	100	50	100	250	350 450 900
23		Corr	1.0	.5	.2	0	.1	.1	0	.1	.3	1.0 1.0 1.0 5.3
24												54.2
25	J	Elv										
26		Diff										
27		Corr										
28												
29												
30												
31												
32												

$$\frac{2.25 \times 54.2 \times .01}{2} = .61 \text{ my} = 6.1 \text{ gu}$$

$$\frac{2.65 \times 54.2 \times .01}{2} = .72 \text{ my} = 7.2 \text{ gu}$$

2.25 × 54.2 = 450 + 900 + 1125 = 2 | 121.950 = 60.97

2.65 × 54.2 = 530 + 1060 + 1325 = 2 | 143.630 = 71.8

STA 52+50 Aprox Elv 3465

TERRAIN CORRECTION

Paul Read 5/23/63

	Zone		①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩
1	AD	Ave elv	3425	3400		3400	3465					
2		elv Diff	40	65		65	0					
3		Corr	1	3		3						7.0
4												
5	E	Ave elv	3425	3425	3450	3425	3450	3500	3450	3450		
6		elv Diff	40	40	15	40	15	35	15	15		
7		Corr	.3	.3	0	.3	0	.2	0	0		1.1
8												
9	F	Ave elv	3500	3500	3450	3400	3500	3400	3400	3450		
10		elv Diff	35	35	15	65	35	65	65	15		
11		Corr	.1	.1	0	.3	.1	.3	.1	0		1.0
12												
13	G	Ave elv	3600	3650	3650	3500	3400	3350	3325	3325	3375	3400
14		elv Diff	135	185	185	15	65	115	140	140	90	65
15		Corr	.3	.5	.5	0	.1	.2	.3	.3	.1	.1
16												
17	H	Ave elv	3600	3700	3700	3650	3475	3350	3300	3275	3275	3300
18		elv Diff	135	235	235	185	10	115	165	190	190	165
19		Corr	.2	.5	.5	.3	0	.1	.2	.3	.3	.2
20												
21	I	Ave elv	3700	3700	3600	3450	3325	3200	3150	3150	3200	3300
22		elv Diff	235	235	135	15	140	265	315	315	265	165
23		Corr	.3	.3	.1	0	.1	.4	.5	.5	.4	.1
24												
25												16.8
26												
27												
28												
29												
30												
31												
32												

$\frac{16.8}{2} \times 2.25 \times .01 = .084 \times 2.25 = .18$ my

$= 1.8$ gravity units

$\frac{16.8}{2} \times 2.65 \times .01 = .22$ my

$= 2.2$ gu

265
84
1060
2120
22260

225
84
900
1800
18900

HEINRICHS GEOEXPLORATION COMPANY

STA 85+00 Elv 3585 approx — TERRAIN CORRECTION — Paul Head

35-110 T5210

			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩
D	Ave Elv		3600	3600	3500	3550						
	Diff elv		15	15	85	35						
	Corr		.2	.2	6	1						7.4
E	Ave Elv		3550	3600	3600	3500	3475	3475	3500	3500		
	Diff elv		35	15	15	85	110	110	85	85		
	Corr		.2	0	0	1.0	2.0	2.0	1.0	1.0		7.2
F	Ave Elv		3550	3525	3500	3500	3425	3450	3475	3450		
	Diff elv		35	60	80	85	160	135	110	135		
	Corr		.1	.2	.5	.5	2	1.0	1.0	1.0		6.3
G	Ave Elv		3650	3600	3550	3500	3600	3400	3400	3500	3500	3450	3500	3550
	Diff elv		165	115	65	85	15	185	185	85	85	135	185	165
	Corr		.4	.2	.1	.1	0	.5	.5	.1	.1	.3	.1	.4		2.8
H	Ave Elv		3650	3650	3575	3500	3400	3375	3350	3300	3350	3450	3500	3600		
	Diff elv		65	65	10	85	185	210	235	285	235	135	85	15		
	Corr		0	0	0	.1	.3	.4	.5	1.0	.5	.2	.1	0		3.1
I	Ave Elv		3750	3750	3650	3500	3375	3275	3225	3225	3250	3350	3500	3650		
	Diff elv		165	165	65	85	210	310	360	360	335	235	85	65		
	Corr		.1	.1	0	0	.2	.5	1.0	1.0	1.0	.3	0	0		4.2
																31.0

15.5 × 22.5 = 775 + 310 + 310 = 34.875

15.5 × 26.5 = 775 + 930 + 310 = 41.075

$\frac{2.25 \times 31.0 \times .01}{2} = .35 \text{ mg} = 3.5 \text{ gu}$

$\frac{2.65 \times 31.0 \times .01}{2} = .41 \text{ mg} = 4.1 \text{ gu}$

			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
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26													26
27													27
28													28
29													29
30													30
31													31
32													32

STA 40+00 Approx Elv 3480 — TERRAIN CORRECTION — Gael Head 5/23/63

			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩
D	Ave Elv		3500	3450	3450	3500						
	Elv Diff		20	30	30	20						
	Corr		.3	1	1	.3						2.6
E	Ave Elv		3425	3475	3475	3450	3400	3400	3450	3400		
	Elv Diff		55	5	5	30	80	80	30	80		
	Corr		.5	0	0	.2	1.0	1.0	.2	1.0		3.9
F	Ave Elv		3450	3425	3425	3500	3375	3375	3400	3450		
	Elv Diff		30	5	55	20	105	105	80	30		
	Corr		.1	0	.2	0	1.0	1.0	.5	.1		2.9
G	Ave Elv		3500	3550	3550	3450	3400	3350	3300	3300	3350	3400	3450	3500
	Elv Diff		20	70	70	30	80	130	180	180	130	80	30	20
	Corr		0	.1	.1	0	.1	.3	.5	.5	.3	.1	0	0	2.0
H	Ave Elv		3600	3700	3550	3550	3400	3300	3250	3250	3300	3350	3400	3500	
	Elv Diff		120	220	70	70	80	180	230	230	180	130	80	20	
	Corr		.1	.4	0	0	.1	.3	.5	.5	.3	.2	.1	0	2.5
I	Ave Elv		3700	3700	3600	3450	3300	3200	3150	3150	3200	3300	3400	3550	
	Elv Diff		220	220	120	30	180	280	330	330	280	180	80	70	
	corr		.3	.3	.1	0	.2	.4	1	1	.4	.2	0	0	3.9
															17.8

22.5 × 8.9	2.65 × 8.9	
2025	2385	
1800	2120	
20025	23585	

$$\frac{17.8 \times 2.25 \times .01}{2} = .20 \text{ my} = 2.0 \text{ gu}$$

$$\frac{17.8 \times 2.65 \times .01}{2} = .24 \text{ my} = 2.4 \text{ gu}$$

STA 27+50 Aprox Elv 3400

TERRAIN CORRECTION

			①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩
D	Ave elv		ALL	Compartments		3400						
	elv Diff					0						
	Corr					0						C
E	Ave elv		3425	3425	3450	3400	3375	3375	3400			
	elv diff		25	25	50	0	25	25	0			
	Corr		.1	.1	.4	0	.1	.1				.8
F	Ave elv		3425	3425	3475	3500	3350	3350	3375	3325		
	elv diff		25	25	75	100	50	50	25	75		
	Corr		0	0	.3	1	.2	.2	0	.3		2.0
G	Ave elv		3475	3500	3475	3425	3400	3325	3300	3300	3325	3350	3400	3450
	elv diff		75	100	75	25	0	75	100	100	75	50	0	50
	Corr		.1	.2	.1	0	0	.1	.2	.2	.1	0	0	0	1.0
H	Ave elv		3550	3650	3600	3450	3350	3300	3250	3250	3250	3325	3400	3500
	elv diff		150	250	200	0	50	100	150	150	150	75	0	100
	Corr		.2	.5	.4	0	0	.1	.2	.2	.2	0	0	.1	1.9
I	Ave elv													
	elv diff		3700	3700	3650	3500	3300	3200	3250	3125	3150	3100	3525	3250
	Corr		300	300	250	100	100	200	150	275	250	300	125	150
			.5	.5	.3	.1	.1	.2	.1	.4	.3	.5	0	.1	3.1
															8.8

$\frac{2.25}{2} \times 8.8 \times .01 = .10$ my = 1.0 gu

$\frac{2.65}{2} \times 8.8 \times .01 = .12$ my = 1.2 gu

HEINRICHS GEOEXPLORATION COMPANY

Sta 72+50 Aprox elv 3460 — TERRAIN CORRECTION — Paul Heinrichs 5/21/63

35-110 T5210

	Zone		1	2	3	4	5	6	7	8	9	10
											in .01 mg	Total Correction
1	D	Ave elv	ALL	compartments	3460							
2		elv diff			0							
3		Corr			0							0
4												
5	E	Ave elv	3460	3500	3460	3460	3450	3430	3400	3450		
6		elv diff	0	60	0	0	10	30	40	10		
7		Corr	0	1	0	0	0	.2	.3	0		1.5
8												
9	F	Ave elv	3400	3450	3500	3550	3450	3400	3550	3450		
10		elv diff	60	10	40	90	10	60	90	10		
11		Corr	.3	0	.1	1.0	0	.3	1.0	0		2.7
12												
13	G	Ave elv	3400	3450	3500	3650	3550	3550	3500	3430	3400	3400	3350	3350		
14		elv diff	60	10	40	190	90	90	40	30	60	60	110	110		
15		Corr	.1	0	0	1.0	.1	.1	0	0	.1	.1	.2	.2		1.9
16												
17	H	Ave elv	3400	3500	3540	3650	3650	3575	3600	3400	3350	3300	3300	3350		
18		elv diff	60	40	80	190	190	115	140	60	110	160	160	110		
19		Corr	0	0	.1	.3	.4	.1	.2	0	.1	.2	.2	.1		1.7
20												
21	I	Ave elv	3350	3500	3650	3750	3750	3600	3450	3350	3250	3100	3100	3250		
22		elv diff	90	40	190	290	290	140	10	110	210	360	360	210		
23		Corr	0	0	.2	.4	.5	.1	0	.1	.2	1.0	1.0	.2		3.7
24												
25												10.5
26												
27												
28												
29												
30												
31												
32												

$\frac{10.5}{2} \times 2.25 \times .01 = .12$ mg
$= 1.2$ gravity units

$\frac{10.5}{2} \times 2.65 \times .01 = .14$ mg
$= 1.4$ gu

265 / 105 / 13 25 / 265 / 27825 / .139

225 / 165 / 18 25 / 225 / 23625 / .118

STA 62+50 Elv 3450 Sprox

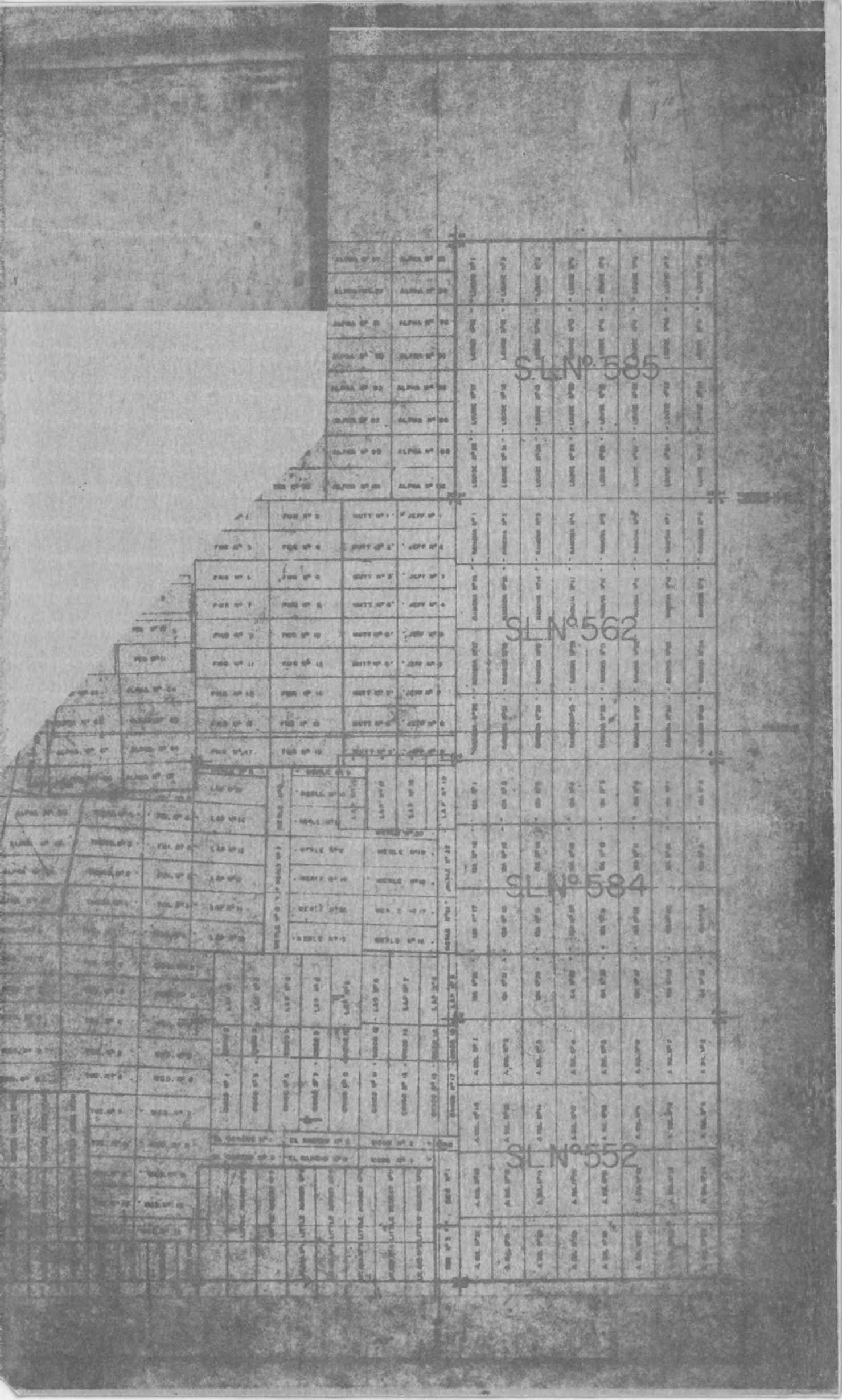
TERRAIN CORRECTION

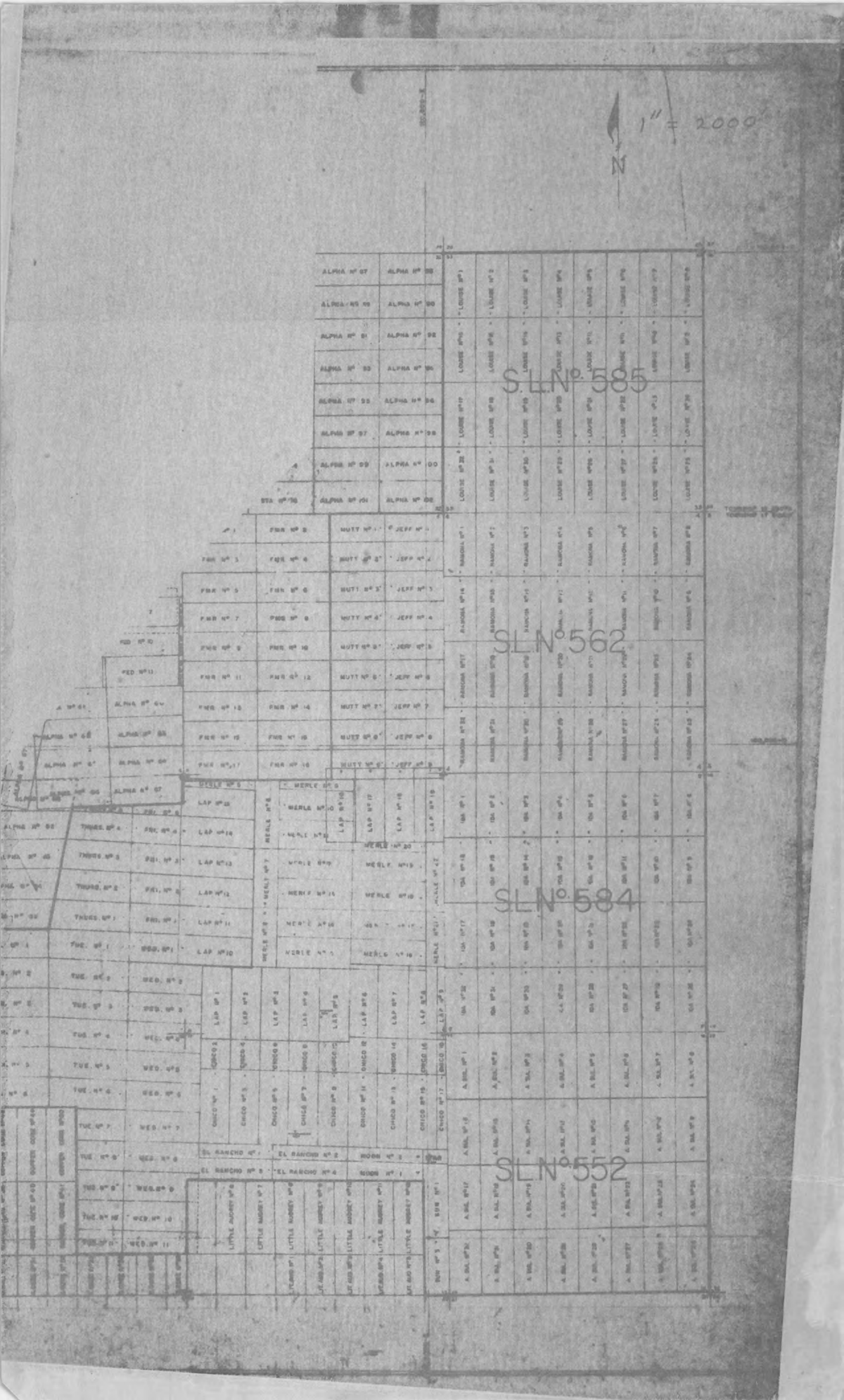
Paul Head 5/21/63

	Zone		①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩ Corr units .01 mgl
1	D	Ave Elv	ALL Compartments		3450							
2		Elv Diff			0							
3		Corr			0							0
4												
5	E	Ave Elv	3475	3475	3450	3425	3425	3425	3450	3475		
6		Elv Diff	25	25	0	25	25	25	0	25		
7		Corr	.1	.1	0	.1	.1	.1	0	.1		.6
8												
9	F	Ave Elv	3540	3550	3550	3500	3450	3400	3350	3400	3375	3400	3450	3500
10		Elv Diff	90	100	100	50	0	50	100	50	75	50	0	50
11		Corr	1	1	1	.2	0	.2	1	.2	.4	.2	0	.2	5.4
12												
13	G	Ave Elv	3800	3600	3550	3500	3450	3400	3375	3350	3375	3400	3450	3500
14		Elv Diff	350	150	100	50	0	50	75	100	75	50	50	50
15		Corr	2	.4	.2	0	0	0	.1	.1	.1	0	0	0	2.9
16												
17	H	Ave Elv	3625	3700	3675	3800	3400	3350	3300	3300	3350	3400	3500	3550
18		Elv Diff	175	250	225	350	50	100	150	150	100	50	50	100
19		Corr	.3	1	.5	1	0	.1	.2	.2	.1	0	0	.1	3.5
20												
21	I	Ave Elv	3725	3750	3625	3475	3350	3300	3250	3200	3200	3200	3200	3350	3450	3600
22		Elv Diff	275	300	175	25	100	150	200	250	250	250	250	100	0	150
23		Corr	.4	.5	.2	0	.1	.1	.2	.3	.3	.3	.3	.1	0	.1	2.9
24																	
25																	15.3
26			2.25		2.65												
27			15.3		15.3												
28			675		795												
29			1125		1325												
30			225		265												
31			34.425		40.545												
32			17.2		20												

$\frac{15.3 \times 2.25 \times .01}{2} = .17 \text{ my} = 1.7 \text{ gu}$

$\frac{15.3 \times 2.65 \times .01}{2} = 21 \text{ my} = 2.1 \text{ gu}$


S.L.N°585
SLN°562
SLN°584
SLN°552


1" = 2000'
N
S.L.N°585
S.L.N°562
S.L.N°584
S.L.N°552

$$\frac{4937}{4858}$$
$$79$$

$$\frac{4937}{4874}$$
$$63$$

$$\frac{4780}{4729}$$
$$51$$

$$\frac{4780}{4725}$$
$$55$$

$$\frac{4}{28}$$
$$14$$

$$\frac{5874}{4858}$$
$$16/23$$

$$\frac{4076}{4033}$$
$$43$$

$$\frac{4780}{4729}$$
$$51$$

$$\frac{6198}{2566}$$
$$73$$

$$\frac{24}{\frac{540}{926}}$$

$$\frac{95}{\frac{430}{926}}$$
$$51$$

$$\frac{55}{55}$$
$$0$$

$$80.55$$

$$11/20$$

$$\frac{4}{}$$

$$\frac{0404}{3756}$$
$$\frac{3756}{9406}$$

$$+2.55 \times .0127/ft = .032655$$

$$.76 \overline{)828}$$

$$10.85$$

$$\frac{4721.2}{446.917}$$
$$\frac{5393}{}$$

$$\frac{.5103992}{5373}$$

$$10.85$$

$$\frac{3477.08}{11.84}$$
$$\frac{}{88.92}$$

$$\frac{.094}{3}$$
$$\frac{}{.282}$$

$$.1 \text{ mi/gt}$$

$$1.3$$

Base station 6400 stable at 5135 for 7 min

5:58 to 1:45 = 4 hr 13 min Scale change 5135 to 5136

1:52 to 2:14 5135 to 5064 Δ = −71 in/22 min = −3.2 div/min

2:20 to 2:08 4908 4956 Δ = −48/12 = −4 div/min

2:39 to 2:20 4912 4908 Δ = +4/19 = +.2 div/min

2:32 - 2:50 4843 4893 Δ = 0/

2:50 - 3:23 4893 4854 Δ = +11/33 = +.3 div/min

3:10 332 4895 4858 Δ = +13/12 = +1.0 div/min

332 3:55 4858 4874 Δ = +16/23 = +.7 div/min

3:47 → 4:02 → 4:30 4712 4724 4725 Δ = +17/15 = 1.1 Δ = −2/28

5010 ~~5014~~ 4/19 = .21

4908

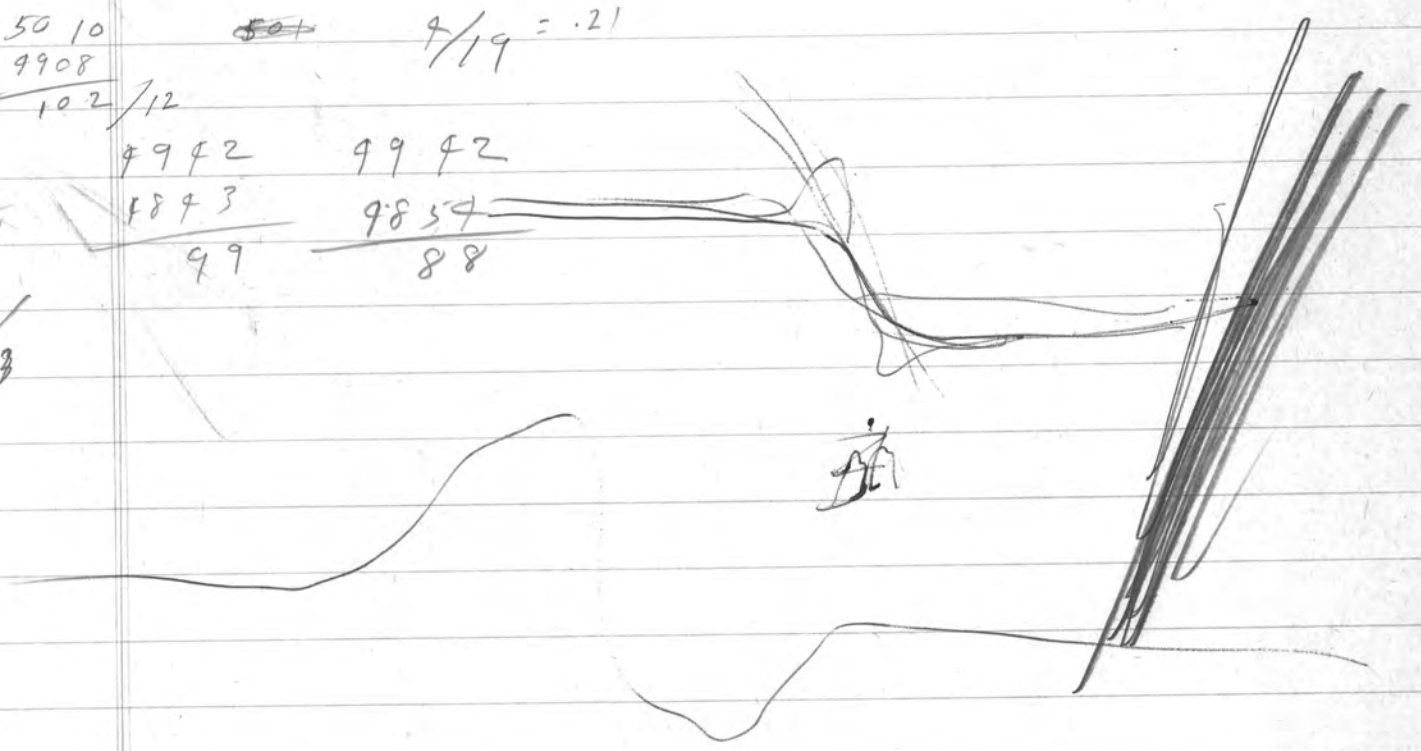
102/12

5016 4942 4942

4912 4843 4854

98 99 88

11/33



12

5571.8

5495.9

HEINRICHS GRAVDATA

PROJECT NO: 134-633580

AREA CODE: 018101216131-MIH1-AIN (1 … punch only if filled in … 41, 80)

INSTRUMENT FACTOR: 0191912 10 (53 … 58)

LATITUDE CORRECTION: 1A17140 (59 60 … 63)

COMBINED B & F CORRECTION: 0161012151 0 (61 … 69)

gang all cards

MA 24202

1 … 6	7 … 11	12 … 17	18, 20,21	22,23	24,25	26, 28,29	30,31,32, … 35	36 … 40, 42
017121216 3	S1E1016 0	R1E1F1E1R1	41/10A8	0A0	0A0	0 0 0A0	0 0A0 1 0 1 0 1 0	0 3 1 4 1 3 1 2A1/16
N1W1 0 1 0 1 0			4 1 0 1 6A5	0A0	0A0	0 1 0 1 0A0	0 1 0A0 1 0 1 8 1 0	0 1 3 1 4 1 4 1/A3 1 6
N1W1 0 1 2 1 0			4 1 0 1 7A7	0A0	0A0	0 1 0 1 0A0	0 1 0A0 1 1 0 1 7	0 1 3 1 4 1 3 1 9A1/1
N1W1 0 1 4 1 0			4 1 0 1 2A2	0A0	\A\	\ \ \ \A	\ \A0 1/1 3 1 4	0 1 3 1 4 1 4 1 8A1 0 1 4
N1W1 0 1 6 1 0			4 1 0 1 3A4	0A0	/A/	/ / / /A	/ /A0 1/1 6 1/	0 1 3 1 4 1 4 1 8A1 9 1 6
N1W1 0 1 8 1 0			4 1 0 1 6A6	0A1	/A/	/ / / /A	/ /A0 1/1 8 1 8	0 1 3 1 4 1 4 1 4A1 8 1 5
N1W1/1 0 1 0			4 1/1 7A6	0A1	/A/	/ / / /A	/ /A0 1 2 1/1 5	0 1 3 1 4 1 2 1 8A1 4 1 4
N1W1/1 2 1 0			4 1/1 9A7	0A1	/A/	/ / / /A	/ /A0 1 2 1 4 1 2	0 1 3 1 4 1 2 1 5A1 3 1 7
N1W1/1 4 1 0			4 1/1 8A1	0A2	/A/	/ / / /A	/ /A0 1 2 1 6 1 8	0 1 3 1 4 1 2 1 7A1 4 1/
N1W1/1 9 1 0			4 1/1 2A3	0A3	/A/	/ / / /A	/ /A0 1 9 1 3 1 7	0 1 3 1 4 1 3 1 6A1 3 1 8
N1W2 1 4 1 0			4 1 2 1 6A4	0A4	/A/	/ / / /A	/ /A/1 6 1 0 1 7	0 1 3 1 4 1/1 7A1 9 1 8
N1W2 1 9 1 0			4 1/1 7A2	0A3	1A8	/ / / /A	/ /A2 1 2 1 7 1 6	0 1 3 1 4 1 2 1 2A1 9 1 8
N1W3 1 4 1 0			4 1/1 4A4	0A7	1A8	/ / / /A	/ /A2 1 9 1 4 1 6	0 1 3 1 4 1 3 1 2A1 9 1 2
N1W3 1 9 1 0			4 1/1 1A0	1A1	1A8	/ / / /A	/ /A3 1 6 1/1 5	0 1 3 1 4 1 4 1 2A1 2 1 0
N1W4 1 4 1 0			4 1 0 1 6A1	1A4	1A8	/ / / /A	/ /A4 1 2 1 8 1 5	0 1 3 1 4 1 4 1 8A1 9 1 2
N1W4 1 9 1 0			4 1/1 1A2	1A7	1A8	/ / / /A	/ /A4 1 9 1 5 1 4	0 1 3 1 4 1 4 1 7A1 6 1 9
E1 6 1 0 1 0 1 0			4 1/1 7A2	2A1	1A8	/ / / /A	/ /A5 1 6 1 2 1 4	0 1 3 1 4 1 4 1 5A1 2 1/
S1E1 0 1 2 1 0			4 1/1 2A9	0A0	0A0	/ / / /A	/ /A0 1 0 1 5 1 4	0 1 3 1 4 1 3 1/A1 8 1/
S1E1 0 1 4 1 0			4 1 0 1 7A9	\A\	0A0	/ / / /A	/ /A0 1 0 1 2 1 7	0 1 3 1 4 1 3 1 7A1/1 7
S1E1 0 1 8 1 0			4 1/1 5A8	/A/	0A0	/ / / /A	/ /A0 1 0 1 2 1 7	0 1 3 1 4 1 2 1 4A1/1 6
S1E1/1 0 1 0			4 1/1 8A6	\A\	/A/	/ / / /A	/ /A0 1 0 1 5 1 4	0 1 3 1 4 1 2 1 0A1 9 1 6
S1E1/1 2 1 0			4 1 2 1/A6	\A\	/A/	/ / / /A	/ /A0 1 0 1 8 1 0	0 1 3 1 4 1/1 6A1 9 1 9
S1E1/1 4 1 0			4 1 2 1 5A4	\A/	/A/	/ / / /A	/ /A0 1/1 0 1 7	0 1 3 1 4 1/1 2A1 2 1 2
S1E1/1 9 1 0			4 1 3 1 2A8	0A1	/A/	/ / / /A	/ /A0 1 7 1 7 1 6	0 1 3 1 4 1 9 1 7A1 8 1 7
S1E1 2 1 4 1 0			4 1 3 1 7A9	0A1	/A/	/ / / /A	/ /A/1 4 1 4 1 6	0 1 3 1 4 1 8 1 6A1 8 1 3

HEINRICHS GRAVDATA

PROJECT NO: 134-633580

AREA CODE: (1 … 41 … 80) A

punch only if filled in

INSTRUMENT FACTOR: 0.9792.0 (53–58)

LATITUDE CORRECTION: V.1740 (59 60 – 63)

COMBINED B & F CORRECTION: 0.6025.0 (64 – 69)

gang all cards

1–6	7–11	12–17	18, 20, 21	22, 23	24, 25	26, 28, 29	30, 31, 32, 35	36, 40, 42
0.7236.3	M.0.0.0.0	Reference	4.06.4	0.0	0.0	-0.0.0.1	0.0.0.0.0.0	0.3.4.3.1.1.6
	B.A.1.1.5	NETTING	3.98.0	1	0.0	- 1	0.0.0.0.0.0	0.3.4.6.5.1.5
	M.0.2.0.0	S	4.13.6	1	1	- 1	+1.0.3.7.8	0.3.4.2.1.3.9
	M.0.4.0.0	S	4.15.0	1	1	- 1	.0.7.5.7	0.3.4.1.9.9.3
	M.0.6.0.0	S	4.08.0	1	1	- 1	.1.1.3.6	0.3.4.3.0.6.7
	M.0.8.0.0	S	4.05.9	1	1	- 1	.1.5.1.5	0.3.4.3.3.7.2
	M.1.0.0.0	S	3.95.7	1	1	- 1	.1.8.9.3	0.3.4.4.8.2.8
	M.1.2.0.0	S	3.95.9	0.0	1	- 1	.2.2.7.2	0.3.4.4.8.9.1
	M.1.4.0.0	S	3.91.2	0.1	1	- 1	.2.6.5.1	0.3.4.5.8.6.6
	M.1.9.0.0	S	3.76.6	0.1	0.0	-0.0.0.1	.3.5.9.2	0.3.4.8.1.2.6
	M.2.4.0.0	S	3.86.7	0.1	2.5	- 1	.4.5.4.4	0.3.4.6.2.2.1
	M.2.9.0.0	S	3.75.5	0.2	2.5	- 1	.5.4.9.0	0.3.4.7.7.1.6
	M.3.4.0.0	S	3.86.3	0.3	2.5	- 1	.6.4.3.7	0.3.4.5.0.5.7
	M.3.9.0.0	S	3.89.1	0.4	2.5	- 1	.7.3.8.4	0.3.4.4.6.7.8
	M.0.0.0.0	N	4.04.3	0.0	2.1	1	0.0.0.0.0.0	0.3.4.3.1.1.6
	M.0.2.0.0	BASE N	4.03.2	0.1	2.1	1	.0.3.7.8	0.3.4.3.0.3.4
	M.0.4.0.0	N	4.12.4	0.2	1	1	.0.7.5.7	0.3.4.1.6.9.0
	M.0.6.0.0	N	4.19.3	0.3	1	-0.0.0.1	.1.1.3.6	0.3.4.2.0.5.2
	M.0.8.0.0	N	4.05.9	0.4	1	- 1	.1.5.1.5	0.3.4.2.5.6.3
	M.1.0.0.0	N	4.14.5	0.5	1	- 1	.1.8.9.3	0.3.4.1.3.7.5
	M.1.2.0.0	N	4.12.5	0.6	1	1	.2.2.7.2	0.3.4.1.6.3.3
	M.1.4.0.0	N	4.14.3	0.7	1	1	.2.6.5.1	0.3.4.1.4.1.6
	M.1.6.0.0	N	4.16.6	0.8	1	- 1	.3.0.3.0	0.3.4.1.2.5.0
	M.1.8.0.0	N	4.17.1	1.0	2.1	1	.3.4.0.9	0.3.4.1.0.4.2
	N.2.3.0.0	N	4.21.1	0.3	4.3	-0.0.0.1	0.0.4.3.5.5	0.3.4.0.1.6.5.2

(2)

HEINRICHS GRAVDATA

PROJECT NO: 134-633580

AREA CODE: 1 ... 41 (4) 80

punch only if filled in

INSTRUMENT FACTOR: 0 9 7 9 2 0 (53–58)

LATITUDE CORRECTION: Λ 1 7 4 0 (59 60 – 63)

COMBINED B & F CORRECTION: 0 6 0 2 5 0 (61 – 69)

gang all cards

1 ... 6	7 ... 11	12 ... 17	18 20,21	22,23	24,25	26 28,29	30,31,32 ... 35	36 ... 40 42
0 7 2 3 1 6 3	M 0 0 0 0 Ō	R E F E R S	4 0 6 Λ 4	0 Λ 0	0 Λ 0	0 0 0 Λ /	0 0 Λ 0 0 0 0 0	0 3 1 4 3 1 / Λ / 6
	M 2 1 8 0 0	N	4 1 3 3 Λ 8	0 Λ 6	4 Λ 3	0 0 0 Λ /	6 0 Λ 5 1 3 0 1 /	0 1 3 1 3 1 8 1 8 Λ 8 1 5
	M 3 1 3 0 0	N	4 1 3 3 Λ 6	0 Λ 8	4 Λ 3	1 Λ /	0 1 0 Λ 6 1 2 1 4 1 7	0 1 3 1 3 1 8 1 8 1 Λ 1 8
	M 1 3 1 8 0 0	N	4 1 3 1 7 Λ 0	1 Λ Ō	4 Λ 3	1 Λ	0 1 0 Λ 7 1 / 1 9 1 3	0 1 3 1 3 1 8 1 0 Λ 4 1 8
			1 Λ	Λ	Λ	1 Λ	1 Λ	1 Λ
0 1 7 2 1 4 1 6 1 3	L 1 6 0 0 0 0	L I N E L	4 1 4 1 2 Λ 3	1 Λ 4	4 Λ 3	0 0 1 / Λ 1	0 0 Λ 8 1 / 1 3 1 9	0 1 3 1 3 1 8 1 3 1 Λ 6 1 2
	L 1 5 1 5 0 1 0		4 1 7 1 Λ 0	0 Λ 0	0 Λ 0	1 / Λ 1	0 1 0 Λ 9 1 0 8 1 5	0 1 3 1 3 1 5 1 3 1 Λ 2 1 9
	L 1 5 1 0 1 0 1 0		4 1 6 1 4 Λ 9	0 Λ 1	0 Λ 0	1 / Λ 1	0 1 / Λ 0 1 0 1 3 1 0	0 1 3 1 3 1 6 1 2 Λ 4 1 4
	L 1 4 1 5 0 1 0		4 1 6 1 5 Λ 5	0 Λ 1	0 Λ 0	1 / Λ 1	0 1 / Λ 0 1 9 1 7 1 0	0 1 3 1 3 1 6 1 7 Λ 2 1 3
	L 1 4 1 0 1 0 1 0		4 1 3 1 2 Λ 9	0 Λ 0	0 Λ 0	1 / Λ 1	0 1 / Λ 1 9 1 2 1 0	0 1 3 1 3 1 3 1 9 Λ 4 1 9
	L 1 3 1 5 1 0 1 0		4 1 9 1 5 Λ 1	0 Λ 0	0 Λ 0	1 / Λ 1	0 1 / Λ 2 1 8 1 7 1 0	0 1 3 1 3 1 2 1 6 Λ 9 1 7
	L 1 3 1 0 1 0 1 0		5 1 0 1 9 Λ 3	0 Λ 0	0 Λ 0	1 / Λ 1	0 1 / Λ 3 1 8 1 2 1 0	0 1 3 1 3 1 0 1 5 Λ 8 1 8
	L 1 2 1 5 1 0 1 0		4 1 1 4 Λ 8	0 Λ 1	0 Λ 0	1 / Λ 1	0 1 / Λ 4 1 7 1 6 1 0	0 1 3 1 2 1 9 1 7 Λ 1 9
			1 Λ	Λ	Λ	1 Λ	1 Λ	1 Λ
			1 Λ	Λ	Λ	1 Λ	1 Λ	1 Λ
			1 Λ	Λ	Λ	1 Λ	1 Λ	1 Λ
			1 Λ	Λ	Λ	1 Λ	1 Λ	1 Λ
			1 Λ	Λ	Λ	1 Λ	1 Λ	1 Λ
			1 Λ	Λ	Λ	1 Λ	1 Λ	1 Λ
			1 Λ	Λ	Λ	1 Λ	1 Λ	1 Λ
			1 Λ	Λ	Λ	1 Λ	1 Λ	1 Λ
			1 Λ	Λ	Λ	1 Λ	1 Λ	1 Λ
			1 Λ	Λ	Λ	1 Λ	1 Λ	1 Λ
			1 Λ	Λ	Λ	1 Λ	1 Λ	1 Λ

(3)

HEINRICHS GEOEXPLORATION COMPANY

[redacted] 5/20/63 Tucson, Ariz

GRAVITY METER COMPUTATION SHEET Sea Level datum

Elev Corr. Factor(s) 0.06535 Area Mineral Hill Computed by J.W.H. & R.H.

6 Al = 2.25, rest 2.65

Sta. No.	Elev.	Elev. Corr.	Elev. Corr.	Lat. Corr.	Sta. Grav. (gu)	Sta. Grav. gu	Final Grav.		2nd Der.	
60+00	3445.21	0.06535			2251.4	494.0	2745.4	gu.		
62+50	3447.40	mg of .6535 gives gu's			2252.9	488.4	2741.3		σ = 2.25	
65+00	3459.49				2260.8	481.9	2742.7			
67+50	3467.85				2266.2	476.3	2742.5			
70+00	3467.09				2265.7	475.4	2741.1			
72+50	3459.73				2260.9	481.5	2742.4			
75+00	3465.05				2264.4	474.9	2739.3			
77+50	3472.29				2269.1	469.0	2738.1		Elv. & Bouguer corrected	
80+00	3487.46	0.06025			2101.2	459.8	2561.0		2279.1	2738.9
82+50	3516.57	"			2118.7	441.0	2559.7		2298.1	2739.1
85+00	3586.75	"			2161.0	392.1	2553.1		2343.9	2736.0
87+50	3643.13	"			2195.0	356.2	2551.2		2380.8	2737.0
90+00	3679.56	"			2213.9	337.6	2551.5		2401.3	2738.9
92+50	3652.23	"			2200.5	351.2	2551.7		2386.7	2737.9
57+50	3448.30	0.06535			2253.5	495.8	2749.3			
55+00	3440.01	"			2248.0	507.2	2755.2			
52+50	3465.78	0.06025			2088.1	497.0	2585.1		2264.9	2761.9
50+00	3512.30	"			2116.2	465.1	2581.5		2295.3	2760.4
47+50	3536.14	"			2130.5	447.1	2577.6		2310.9	2758.0
45+00	3476.24	"			2094.4	485.4	2579.8		2271.7	2757.1
42+50	3444.32	"			2075.2	507.6	2582.8		2250.9	2758.5
40+00	3481.20	"			2097.4	484.1	2581.5		2275.0	2759.1
37+50	3465.41	"			2088.0	489.1	2577.1		2264.6	2753.7
35+00	3453.15	"			2080.5	501.7	2582.2		2256.6	2758.3
32+50	3423.30	"			2062.5	523.1	2585.6		2237.1	2760.2
30+00	3402.57	"			2050.0	539.1	2589.1		2223.6	2762.7
27+50	3396.51	"			2046.4	544.7	2591.1		2219.0	2764.3

[redacted] HEINRICHS GEOEXPLORATION COMPANY Tucson Ariz
GOLDEN, COLORADO

5/20/63

GRAVITY METER DATA SHEET

Area Mineral Hill Inst.No. → Calib. Factor 0.096194 mgls/div.
= .96194 gravity units/div.

Date 5/17+18/63 Operator JWM Ass't Oper. D. Mc.

(Grav Units) Methods grav units

Sta. No.	Time	Inst. Read.	Drft Corr	Sta. Grav.		Sta. No.	Time	Inst. Read.	Drft Corr	Sta. Grav.	
60+00	1:45	513.5	+			90+00	5:13	346.8	+4.9	351.7	338.3
"	1:48	513.5	−			80+00	:26	472.9	+5.1	478.0	459.8
"	1:52	513.5	=	494.0	494.0	70+00	:45	486.9	+7.3	494.2	475.4
62+50	2:00	505.0	+2.7	507.7	488.4	60+00	:58	513.6	−0.1	513.5	494.0
65+00	2:08	495.6	+5.4	501.0	481.9	60+00	9:50	511.8	+1.7	513.5	494.0
60+00	2:16	506.4	+7.1	513.6	494.0	60+00	:52	512.5	+1.0	513.5	494.0
65+00	:20	490.8	+10.2	501.0	481.9	60+00	:55	513.3	+0.2	513.5	494.0
67+50	:27	485.0	+10.1	495.1	476.3	57+50	10:00	515.2	+0.2	515.4	495.8
70+00	:32	484.3	+9.9	494.2	475.4	55+00	:03	526.8	+0.5	527.3	507.2
65+00	:39	491.2	+9.8	501.0	481.9	60+00	:09	512.8	+0.7	513.5	494.0
70+00	:50	484.3	+9.9	494.2	475.4	55+00	:14	527.9	−0.6	527.3	507.2
72+50	3:00	491.0	+9.6	500.6	481.5	57+50	:20	517.4	−0.7	516.7	497.0
75+00	3:10	484.5	+9.2	493.7	474.9	50+00	:26	484.3	−0.8	483.5	465.1
70+00	:23	485.4	+8.8	494.2	475.4	55+00	:38	528.1	−0.8	527.3	507.2
75+00	:32	485.8	+7.9	493.7	474.9	50+00	:45	485.4	−1.9	483.5	465.1
77+50	:40	480.3	+7.3	487.6	469.0	47+50	:52	466.8	−2.0	464.8	447.1
80+00	:47	471.2	+6.8	478.0	459.8	45+00	11:01	506.8	−2.2	504.6	485.4
75+00	:55	487.4	+6.3	493.7	474.9	50+00	:10	485.8	−2.3	483.5	465.1
80+00	4:02	472.9	+5.1	478.0	459.8	45+00	:20	506.7	−2.1	504.6	485.4
82+50	:10	453.2	+5.2	458.4	441.0	42+50	:27	529.7	−2.0	527.7	507.6
85+00	:20	402.2	+5.4	407.6	392.1	40+00	:35	505.3	−2.0	503.3	484.1
80+00	:30	472.5	+5.5	478.0	459.8	45+00	:43	506.5	−1.9	504.6	485.4
85+00	:40	403.3	+4.3	407.6	392.1	40+00	:52	504.1	−0.8	503.3	484.1
87+50	:50	365.8	+4.5	370.3	356.2	37+50	12:15	505.8	+2.6	508.4	489.1
90+00	:58	346.3	+4.7	351.0	337.6	35+00	:21	515.5	+6.0	521.5	501.7
92+50	5:06	360.3	+4.8	365.1	351.2	40+00	:30	494.0	+9.3	503.3	484.1

Hamish Derx.

COLORADO EXPLORATION COMPANY — GOLDEN, COLORADO

GRAVITY METER DATA SHEET

Area Merrill Hill Inst.No. _____ Calib. Factor .096194

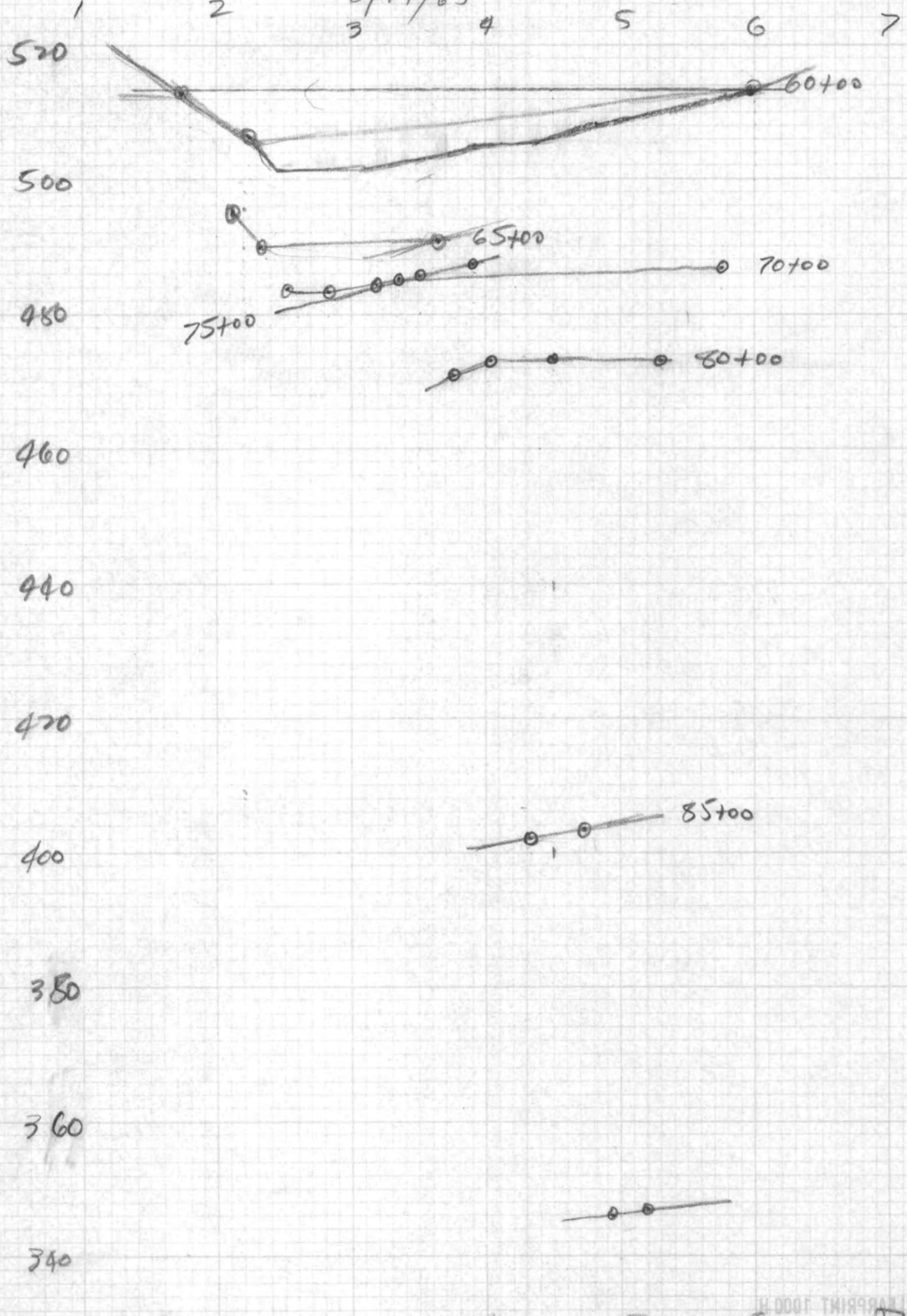
Date 5/18/63 Operator WM Ass't Oper. Dave

Sta. No.	Time	Inst. Read.	Drft Corr	Sta. Grav. milligals	milligals
35+00	12:37	515.9	+5.6	521.5	501.7
32+50	:45	537.8	+6.0	543.8	523.1
30+00	:51	554.0	+6.4	560.4	539.1
27+50	:53	559.4	+6.8	566.2	544.7
30+00	1:02	555.1	+7.2	562.3	540.9
40+00	1:15	495.8	+7.5	503.3	484.1
50+00	1:26	477.6	+5.9	483.5	465.1
60+00	1:34	505.7	+7.8	513.5	494.0

Sta. No.	Time	Inst. Read.	Drft Corr	Sta. Grav. milligals

5/20/63

Drift curve for 5/17/63



HEINRICHS GEOEXPLORATION COMPANY

450

+500

+700

279

-50

Sea Level

R 12 E

T 16 S

T 17 S

34

35

36

3

2

1

10

11

12

Diamond Drill

Slag Area

Tailings Area

Banner Mine

Mission Road – Twin Buttes Road

N

HEINRICHS GEOEXPLORATION COMPANY
P.O. Box 5671 Tucson, Arizona

PRELIMINARY MAGNETIC CONTOUR MAP

FOR

THE ANACONDA COMPANY

MINERAL HILL AREA

PIMA COUNTY ARIZONA

SCALE: 1" = 1000'	CONTOUR INTERVAL: 50δ	REVISIONS
	DATA BY: J.W.M.	
DATE: March 1963	SHEET OF	
DRAWN BY: i.b.	DRAWING NO.:	FILE:

Line 1

TAILINGS AREA

BARRIER MTNS

SAND XAVIER MTNS

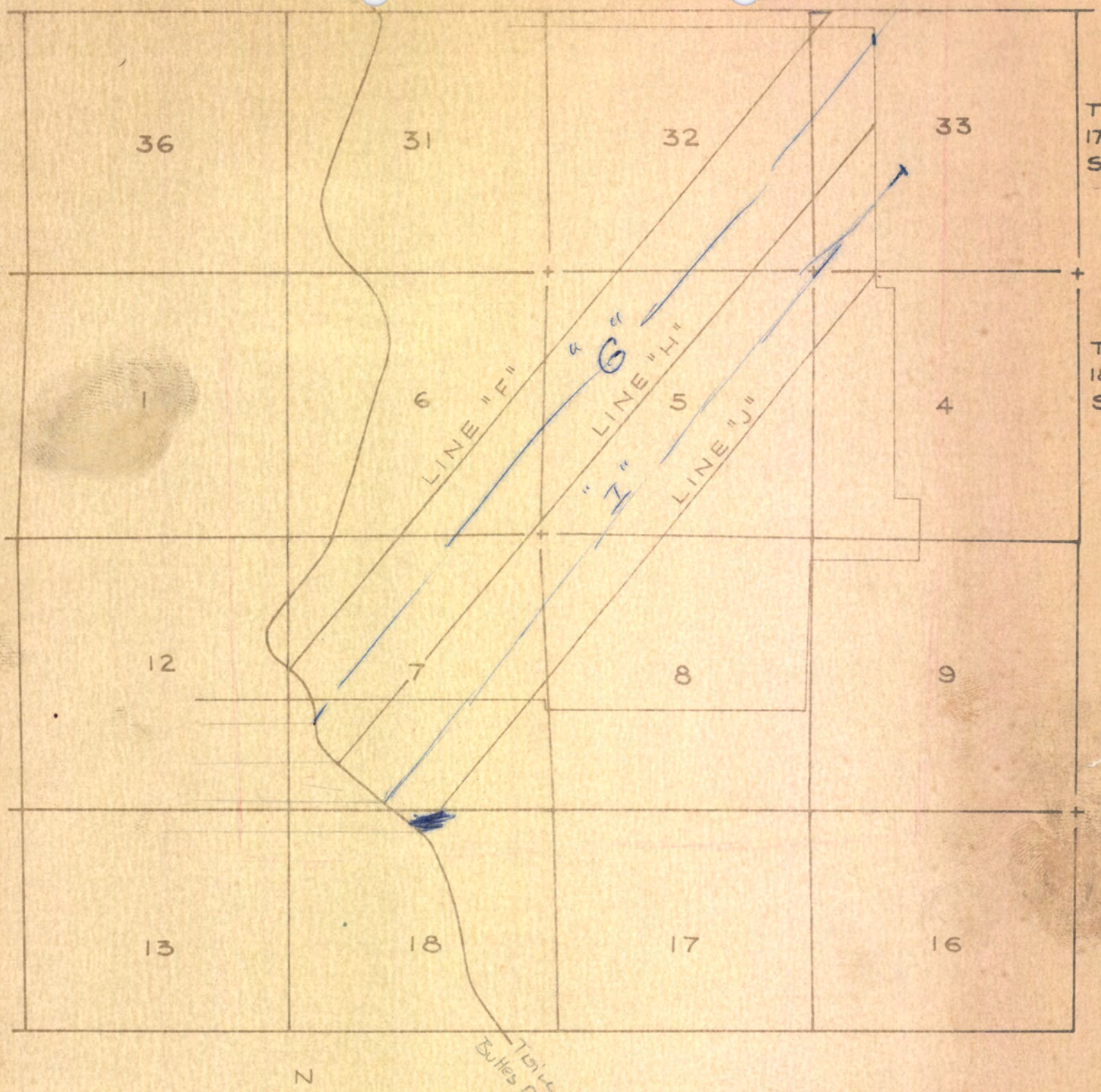
Blue between each rod

FLEX-O-GLASS

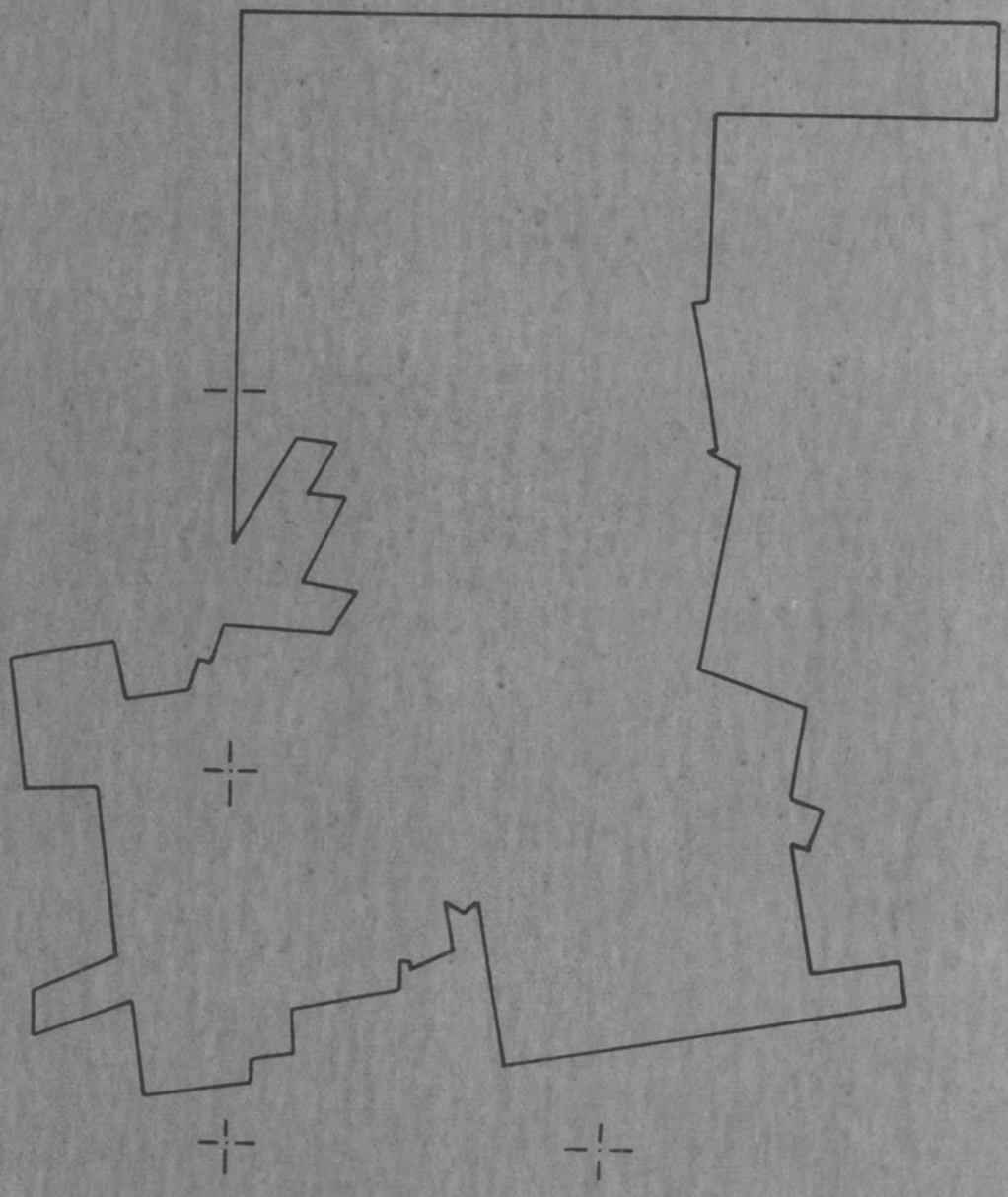
Work Map

Magnetic Map
Twin Buttes Area
Pima County, Ariz.
for
The Anaconda Co.

Scale: 1" = 500'
Data position ± 5%
May 1963



MOMAG COVERAGE
TWIN BUTTES AREA
for
THE ANACONDA COMPANY
by
HEINRICHS GEOEXPLORATION CO.
Scale: 2" = 1 mile April 1963



2" = 1 mile

N ← 30+00 | 40+00 | 50+00 | 60+00 | 70+00 | 80+00 | 90+00 → S

LINE E - Looking E

σ = 2.65 corrected

σ = 2.65

σ = 2.25

σ = 2.65 Alternate curve (Emad)

? ? ? ? ? ? ? ?

Not measured values!

277.50
276.25
275.00
273.75
Milligal Gravity (relative)

3700
3200
Elev. in feet

Surface (Geol. f/ USGS Bull. # 1112-C by Cooper of 1960)

PALEOZOIC LIMESTONE
PALEOZOIC QUARTZITE
Pre-CAMBRIAN Granite
PALEOZOIC QUARTZITE
PALEOZOIC LIMESTONE
ALLUVIUM
Cretaceous Volcanics f/ test hole?
f/ test drapes AL?
PALEOZOIC LIMESTONE

• - Terrain corrected

Composite Profile LINE E
Gravity, Surface & Subsurface Geology
Pima County, Arizona
5/25/63
for: Anaconda Copper Co., Tucson, Ariz.
by Heindl, Geoexploration Co.
Box 5671 Tucson, Arizona

SCALE - 1" = 500' & 2.5 milligals

2.5 milligals
500'
0

10 X 10 TO THE INCH
KEUFFEL & ESSER CO.
359-5DLG
MADE IN U.S.A.

~~Chart #1~~

LINE "E"

Looking East

6 S 24

Hor Scale 1"=500'
Vert Scale 1"=100 mg + 500'/1

Line plotted in red represents possible error in field reading

Fault?

Fault?

Fault?

σ = 2.65 constant

no σ contrast

⊙ Terrain corrected

2800 ft

2750 ft

2700 ft

σ = 2.65 grams/cm³

σ = 2.25 grams/cm³

σ = 2.65 grams/cm³

Surface

Paleozoic Sds L. S.

GRAVITY

Elev. in feet

800
700
600
3700
3200

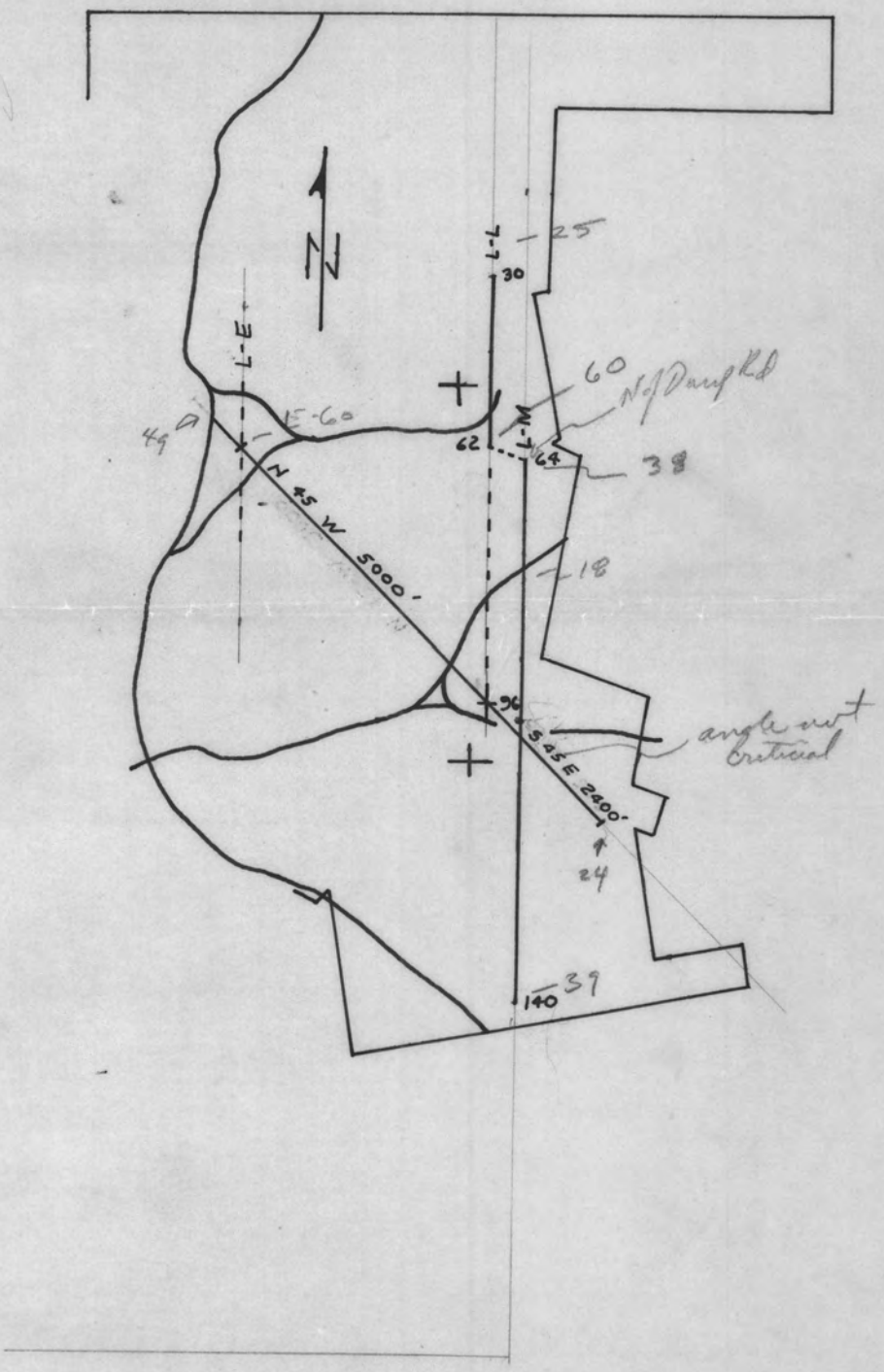
N ← 30+00 40+00 50+00 60+00 70+00 80+00 90+00 → S

K+E 10 X 10 TO THE INCH 359-5DLG KEUFFEL & ESSER CO. MADE IN U.S.A.

FAULT?
FAULT?
FAULT?
700
600
Milligal Gravity
δ = 2.65 δ/cm³
δ = 2.25 δ/cm³
δ = 2.65 δ/cm³

Location map of C.P.

MINERAL HILL AREA



U.G.C. 157

HEINRICHS GEOEXPLORATION COMPANY

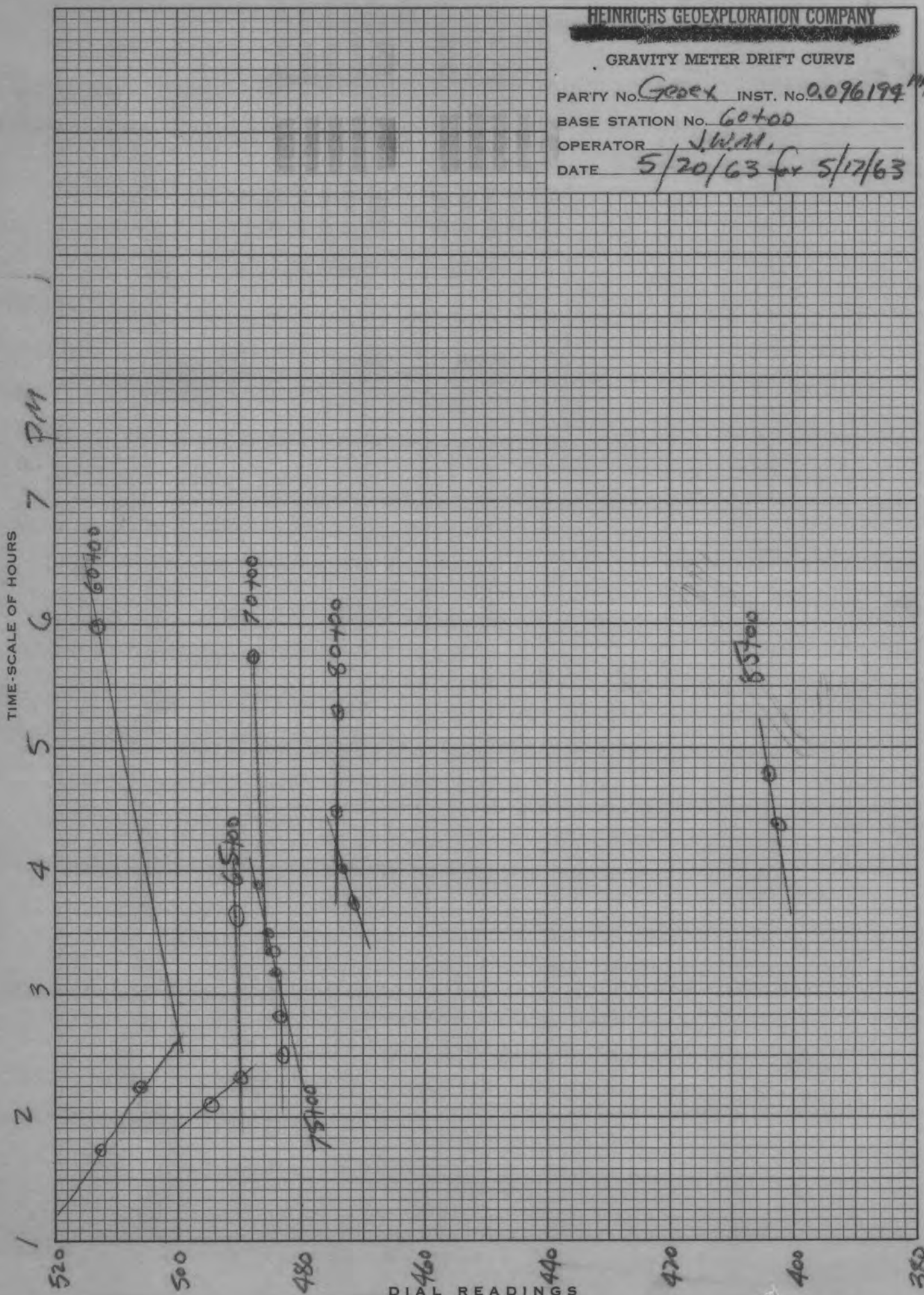
GRAVITY METER DRIFT CURVE

PARTY No. Geodex INST. No. 0.096194 .095/div.

BASE STATION No. 60+00

OPERATOR J.W.H.

DATE 5/20/63 for 5/17/63



5/18/63
Paul a Read

Gravity Profile

This report ~~will be a series of~~ comments on the field notes + procedure, correction principles used to arrive at the final value of Gravity plotted.

A slightly more complex field proceedure might ~~should~~ be considered ~~adopted~~ for ~~so that~~ better control of drift, ~~corrections can be maintained~~. It ~~would~~ involves reading the same station three times instead of two, ~~this procedure~~ as described on page 38 "Geophysical Prospecting For Oil" by Nettleton.

It may be that this refinement is not needed for a single profile, but if contours are to be developed from a grid survey, the additional confidence in field data will more than pay for itself.

Instrument drift on this profile ~~seemed to be quite bad on first thought but the~~ was 10 scale divisions overall ~~variation~~ (i.e. approximately 1 milligal). ~~is of Little consequence on this particular Line.~~ The Drift corrections ~~that were~~ used on this Line were developed from two point-Linear approximations. ~~and should be well within one milligal.~~

Carl Kead
5/25/83

General Comments on Field Readings and Their Corrections

The scale divison of the instrument was determined to be the third directly read digit on the tumblers (NB 3 4 6 546.) This position of the decimal is confirmed by relative elevation readings taken and compared to the theoretical gravity difference for the elevation change.

Scale readings decrease with increasing elevation, therefore when the readings are multiplied by the instrument scale constant, the result is a positive gravity value. The scale constant is .096194 mg/div.

All gravity values are ~~been~~ converted to sea level datum. and ~~adjusted~~ for average surface densities of 2.25 ± 2.65

Combined, the "Free-air" and Bouguer or total elevation correction is therefore
$-.09406 \text{ mg/ft} + 2.65 \times .01276 \text{ mg/ft} = \pm .06025 \text{ mg/ft}$
$-.09406 \text{ mg/ft} + 2.25 \times .01276 \text{ mg/ft} = -.06535 \text{ mg/ft}$.

Since data is ~~to be reduced~~ converted to sea level the correction ~~will be~~ is added to the station gravity.

~~One~~ Value of gravity for a given station will therefore be +(station elevation x .06535 + .096194 x scale reading) mg, not accounting for terrain corrections and Latitude corrections

The Latitude correction, of about .05 mg per 250' stations, (See supplementary sheet) ~~will be used to~~ helps reduce ~~eliminate~~ the North rising regional gradient noted.

The terrain correction procedure used is outlined on payes 59 through 62 of Geophysical Prospecting for Oil - by Nettleton

5/25/03

(2)

All calculations are in gravity units - 1mg = 10 gu

Terrain Corrections have been carried out for seven stations:

	Terrain for $\sigma = 2.65$	Final grav	Terrain for $\sigma = 2.25$
27+50	1.2 gu	2589.9 gu	1.0 gu
40+00	2.4	2582.3	2.0
52+50	2.2	2589.3	1.8
62+50	2.1	2572.4	1.7
72+50	1.4	2576.2	1.2
85+00	4.1	2563.7	3.5
92+50	7.2	2561.2	6.1

for reference

Intermediat stations were graphically sketched in - blue line

Latitude Correction

see table Nettleton page 52

Latitude taken as 32° N

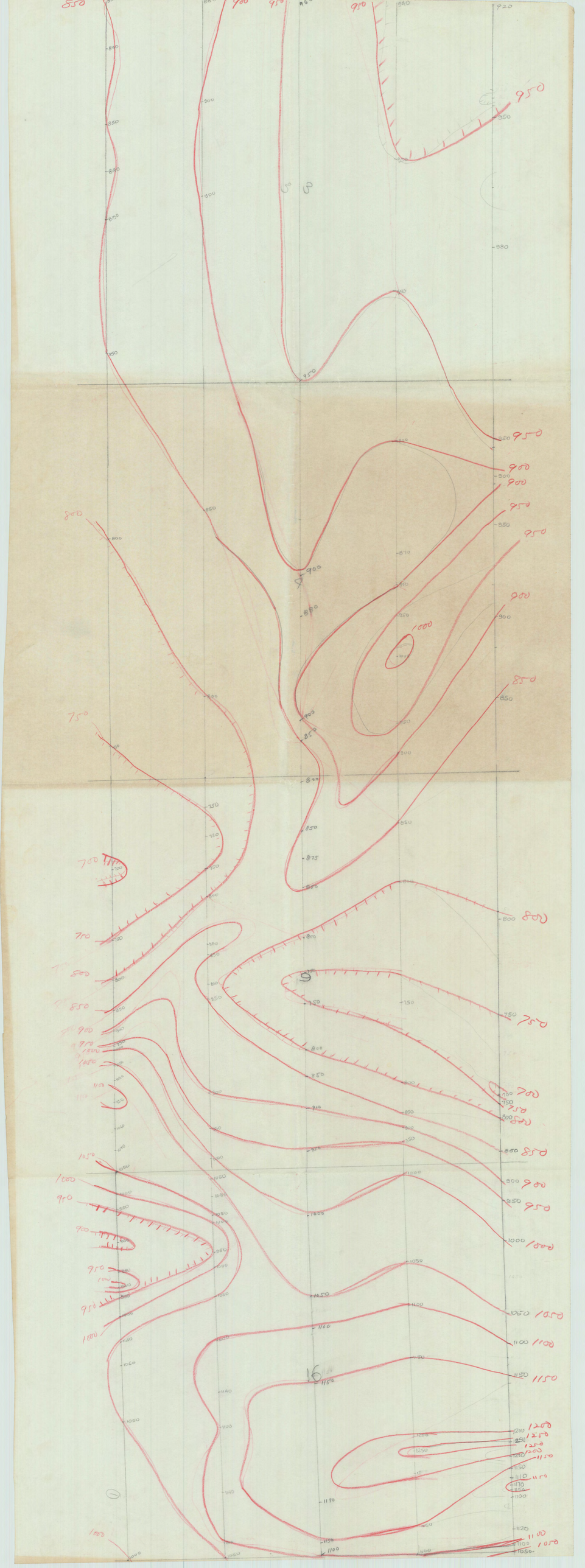
correction = 1.132 + .1132 + .1132 = 1.358 mg/mile

$\frac{1.358}{5280} \times 250 \text{ mg}/250 \text{ ft sta} = .064 \text{ mg/sta} \left(@ 250'\right)$

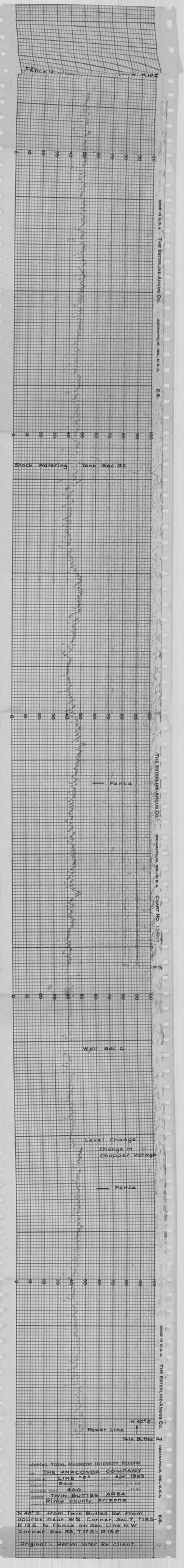
	ALL Minus		
27+50	0	8500	1.476
30+00	.064	8750	1.540
	.128	9000	1.605
	.192	9250	1.669
	.256		
4000	.320		
	.384		
	448		
	512		
5000	.577		
	641		
	705		
	769		
6000	.834		
	898		
	962		
	1.026		
7000	1.091		
	1.155		
	1.219		
	1.283		
8000	1.348		
8250	1.412		

Since acceleration increases towards the North, that is a stronger negative value, the Latitude correction will be in the same direction as a downwards elevation correction. Therefore these corrections are added to the sea level datum correction (relative to Sta 27+50).

going South.



E ESTERLINE-ANGUS CO. INDIANAPOLIS, IND., U. S. A. CHART NO. 17491X
MADE IN U. S. A. THE ESTERLINE-ANGUS CO. INDIANAPOLIS, IND., U. S. A. E.S.
THE ESTERLINE-ANGUS CO. INDIANAPOLIS, IND., U. S. A. CHART NO. 17491X
MADE IN U. S. A. THE ESTERLINE-ANGUS CO. INDIANAPOLIS, IND., U. S. A. E.S.



MGMag Total Magnetic Intensity Record

THE ANACONDA COMPANY

Apr 1963

LINE "E"

200

400

TWIN BUTTES AREA

Pima County, Arizona

N 40° E from Twin Buttes rd. from approx. Near W¼ Corner Sec 7 T 15S R 13E to Fence on Sec Line N.W. Corner Sec 33, T 17S - R 13E

Original - Rerun later for client.

WEST 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 6500 7000 7500 8000 8500 9000 9500 10000 10500 11100 EAST

All Profiles looking North

N

MAGNETIC PROFILES

1 thru 9 inclusive

MINERAL HILL AREA

PIMA COUNTY for ARIZONA

THE ANACONDA COMPANY

by

HEINRICHS GEOEXPLORATION COMPANY

Hor. Scale: 1" = 500 feet

Vert. Scale: 1" = 200 gammas

March 1963

WEST 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 6500 7000 7500 8000 8500 9000 9500 10000 10500 11100 EAST

LINE 1

1200γ
1000γ
800γ
600γ

27 | 26
34 | 35

Twin Buttes Mission Rd.

Pima Rd.

28 | 25
33 | 36

Entrance to Polo Verde Mine

25 | 30
36 | 31

LINE 2

1000γ
800γ
600γ

N.S. lifting

Twin Buttes Rd. — Mission Rd.

LINE 3

1000γ
800γ
600γ

Limestone outcrop

Twin Buttes Rd. — Mission Rd.

LINE 4

1200γ
1000γ
800γ
600γ

Twin Buttes Rd.

West Edge of Dump

LINE 5

1200γ
1000γ
800γ
600γ

Twin Buttes Rd.

LINE 6

1200γ
1000γ
800γ
600γ

Twin Buttes Rd.

Random, erratic readings from Drill Rig

LINE 7

1400γ
1200γ
1000γ
800γ
600γ

Twin Buttes Rd.

Slag Pile

N.W. Corner Pima Pit

LINE 8

1400γ
1200γ
1000γ
800γ
600γ
400γ

Twin Buttes Rd.

Tailings Pond

To 3240

To 1440
To 1870
To 1590
Pipe effects

Top of Mineral Hill

West edge of Pima Mine Pit

LINE 9

1200γ
1000γ
800γ
600γ

34 | 35
3 | 2

Twin Buttes Rd.

Random erratic readings from Banner Mine & Bldgs.

S.W. Corner of Pima Mine Pit

All Profiles looking North

N

MAGNETIC PROFILES

1 thru 9 inclusive

MINERAL HILL AREA
PIMA COUNTY, ARIZONA

for

THE ANACONDA COMPANY

by

HEINRICHS GEOEXPLORATION COMPANY

Hor. Scale: 1" = 500 feet
Vert. Scale: 1" = 200 gammas

March 1963

MAP No. 2

K&E STANDARD ® 10 X 10 TO THE INCH

3000W 2500W 2000W 1500W 1000W 500W 0 500E 1000E 1500E 2000E 2500E 3000E 3500E 4000E 4500E 5000E 5500E 6000E 6500E 7000E 7500E 8000E 8500E 9000E

All Profiles looking North

N

MAGNETIC PROFILES

10 thru 17 inclusive

MINERAL HILL AREA
PIMA COUNTY, ARIZONA
for
THE ANACONDA COMPANY
by
HEINRICHS GEOEXPLORATION COMPANY

Hor. Scale: 1" = 500 feet
Vert. Scale: 1" = 200 gammas

March 1963

MAP No. 3

K&E STANDARD ®
KEUFFEL & ESSER CO. MADE IN U.S.A.

43° 18' lat. 86 23'
95° 10' long.

$K = 1.307 \min 2\varphi$ (mg/mile)

$K = 1.307(.9980\,1)$ mg/mile
$K =$ latitude correction $= 1.304^{399}$ mg/mile

$(1.307)(2)(.68476)$ 1.15038

Latitude correction = 1.304399

Conv. B & F correction

$(0.01276\,\rho - .09406)\,h$ mg/ft

$\rho = 1.75$	.02233	-.09406	7173
$\rho = 1.80$	0 22968	-.09406	7110
$\rho = 1.85$	0 2360	-.09406	7046
$\rho = 1.90$	0 24244	-.09406	6982
$\rho = 1.95$	0 24882	-.09406	6918
$\rho = 2.00$	0 25520	-.09406	6851
$\rho = 2.05$	0 26158	-.09406	6791
$\rho = 2.10$	0 26796	-.09406	6726
$\rho = 2.15$	0 27434	-.09406	6663
$\rho = 2.20$	0 28072	-.09406	6598
$\rho = 2.25$	0 28710	-.09406	6535
$\rho = 2.30$	0 29348	-.09406	6471
$\rho = 2.35$	0 29986	-.09406	6408
$\rho = 2.40$	0 30624	-.09406	6343
$\rho = 2.45$	031262	-.09406	6279
$\rho = 2.50$	0 3190	-.09406	6216

$\rho = 2.55$	032538	-09406	6153
$\rho = 2.60$	033176	-09406	6088
$\rho = 2.65$	033814	-09406	6024
$\rho = 2.70$	034452	-09406	59608
$\rho = 2.75$	033090	-09406	5897
$\rho = 2.80$	035728	-09406	5833
	036366		57694

	+S −N (add.)
0	... 0
5	.f .2
10	. .4
15	. .7
20	.1 .9
25	. 1.1
30	1.1 1.2
35	1. 1.4
40	2.) 1.7
45	2.0
50	2.2
55	2.4
60	2.7
65	2.9
70	3.1
75	3.2
80	3.4
85	3.7
90	4.0
95	4.2
100	4.4
105	4.7
110	4.9
115	5.1
120	5.2
125	5.4
130	5.7
135	6.0
140	6.2
145	6.4
150	6.7
155	6.9
160	7.1
	-

165	7.2
170	7.4
175	7.7
180	7.9
185	8.1
190	8.2
195	8.4
200	8.7
205	9.0
210	9.2

Gravity Results — Twin Buttes

Reference BM K-114

A-00	~~.4~~ .5 +	.5
05	~~.2~~ .4 +	.6
10	.3 +	.7
15	.2 −	.5
20	.7	.2
~~25~~	1.4	−.3
30	1.5	−.3
35	1.7	−.3
40	1.8	−.1
45	1.9	+.1
50	1.9	+.3
55	1.5	+.9
60	.5	+2.2
65	.1	+2.8
70	.0	+3.1
75	1.0	+2.2
~~80~~	1.0	+2.4
85	1.0	2.7
90	1.2	2.8
95	1.9	2.3
100	1.6 + 2.~~8~~	
105	1.6	3.1
110	2.0	2.9
115	2.4	2.7
120	2.6	2.6
125	2.5	2.9
130	2.5	~~3~~.2
135	2.8	3.2
140	2.8	3.4
~~145~~	3.0	3.4

OK

B-00	1.2	− 1.2
B-00-05	2.5	− 2.3
B − 05	2.6	− 2.2
10	1.~~8~~	−1.0
15	2.6	− 1.5
20	2.5	− 1.4
25	2.5	−1.3
30	2.5	−1.1
35	1.8	−.1
40	.5	+1.5
45	.3	+1.9
50	.1	+2.3
55	.3	+2.4
60	.9	+2.0
65	1.6	+1.5
×70	2.9	+.3
×75	3.2	+.2
×80	3.2	+.5
×85	2.~~6~~0	1.4
90	1.2	3.0
95	.~~8~~	3.6
100	1.0	3.7
105	2.6	2.3
110	2.2 −	2.9
↓115	~~3.2 +~~ ~~2.9~~ ~~3.2~~	2.0
↓120	2.6 + ~~2.9~~	2.5

OK

C-00	1.1	-1.1
05	1.5	-1.3
10	2.2	-1.8
X 15	2.7	-2.0
20	3.2	-2.1
25	3.5	-2.4
30	3.8	-2.6
35	3.4	-2.0
40	2.9	-1.2
45	3.3	-1.3
50	3.5	-1.3
55	2.8	-.4
60	2.4	+.3
65	1.4	+1.5
70	1.1	+2.0
75	2.1	+1.1
80	3.9	+.5
85	4.2	-.5
90	4.8	-.8
95	5.2	-1.0
100	5.4	-1.0
105	5.4	-.7
110	4.9	0
115	4.4	+.7
120	4.3	+.9
125	4.5	+.9
130	5.1	+.6
135	5.7	+.3

D-00	2.2	-2.2
05	2.3	-2.1
10	1.2	-.8
15	1.2	-.5
20	2.6	-1.7
25	4.0	-2.9
30	4.3	-3.1
35	4.5	-3.1
40	4.4	-2.7
45	4.2	-2.0
X 50	2.6	Rig -.4
55	3.3	+.9
60	3.5	-.7
65	4.1	-1.2
70	4.2	-1.1
75	4.3	-1.1
80	4.5	-1.1
85	3.8	-.1
90	4.3	-.3
95	4.2	0
100	4.3	+.1
105	4.7	0
110	5.2	-.3
115	5.4	-.7
120	6.2	-1.0
125	6.4	-1.0
130	6.6	-.9
135	6.5	-.5

NA yet

E-00	1.6	-1.6	-3.1	E-00	7.3	3.1
05	1.4	-1.2	-3.1	05	7.5	3.3
10	1.5	-1.1	-3.3	10	7.9	3.7
15	2.0	-1.3	-3.1	15	8.0	3.8
20	2.6	-1.7	-2.8	20	7.9	3.7
25	2.9	-1.8	-2.4	25	7.7	3.5
30	2.5	-1.3	-2.3	30	7.7	3.5
35	1.6	-.2	-2.0	35	7.6	3.4
40	2.3	-.6	-1.5	40	7.4	3.2
45	3.5	-1.5	-.9	45	7.1	2.9
50	4.3	-2.1	-.9	50	7.3	3.1
55	4.8	-2.4	-1.5	55	8.1	3.9
60	5.0	-2.3	-1.8	60	8.7	4.5
65	5.1	-2.2	-2.0	65	9.1	4.9
70	5.1	-2.0	-1.9	70	9.2	5.0
75	5.1	-1.9	-1.9	75	9.3	5.1
80	4.9	-1.5	-1.7	80	9.3	5.1
85	4.9	-1.2	-1.6	85	9.5	5.3
90	5.1	-1.1	-1.4	90	9.6	5.4
95	5.2	-1.0	-1.5	95	9.9	5.7
100	5.3	-.9	-1.4	100	10.0	5.8
105	5.5	-.8	-1.4	105	10.3	6.1
110	5.7	-.8	-1.5	110	6.4	
115	6.0	-.9	-.4	115	5.5	
120	6.5	-1.3	-.7	120	5.9	
125	6.9	-1.5	-1.7	125	7.1	
130	7.2	-1.5	-1.8	130	7.5	
135	7.2	-1.2	-1.5	135	75	

use this col ↓

	(-4.2)					(-4.2)	
G-00	7.3	3.1	-3.1	-3.9	H-00	8.1	3.9
05	7.9	3.7	-3.5	-4.0	05	8.4	4.2
10	8.2	4.0	-3.6	-3.9	10	8.5	4.3
15	7.9	3.7	-3.0	-3.7	15	8.6	4.4
20	8.0	3.8	-2.9	-3.4	20	8.5	4.3
25	7.9	3.7	-2.6	-3.2	25	8.5	4.3
30	7.8	3.7	-2.5	-3.1	30	8.5	4.3
35	7.6	3.4	-2.0	-2.9	35	8.5	4.3
40	7.7	3.5	-1.8	-2.8	40	8.7	4.5
45	8.0	3.8	-1.8	-2.8	45	9.0	4.8
50	8.2	4.0	-1.8	-2.9	50	9.3	5.1
55	8.3	4.1	-1.7	-2.4	55	9.0	4.8
60	8.5	4.3	-1.6	-2.3	60	9.2	5.0
65	8.7	4.5	-1.6	-2.4	65	9.5	5.3
70	9.2	5.0	-1.9	-2.5	70	9.8	5.6
75	9.5	5.3	-2.1	-2.6	75	10.0	5.8
80	9.8	5.6	-2.2	-2.6	80	10.2	6.0
85	9.9	5.7	-2.0	-2.4	85	10.3	6.1
90	10.2	6.0	-2.0	-2.3	90	10.5	6.3
95	10.6	6.4	-2.2	-2.4	95	10.8	6.6
100	10.6	6.4	2.0	-2.3	100	10.9	6.7
105	10.8	6.6	-1.9	-2.2	105	11.1	6.9
110	10.9	6.7	-1.8		110	(Just washed out)	
115	11.2	7.0	-1.9		115		
120	11.5	7.3	-2.1		120		
125	11.7	7.5	-2.1		125		
130	11.9	7.7	-2.0		130		
135	12.1	7.9	-1.9		135		

Line M

	M-00	0.
North	02	0.1
	04	.2
	06	.3
	08	.4
	10	.4
	12	.5
	14	.6
	16	.7
	18	.7
	23	1.0
	28	1.2
	33	1.5
	38	1.7
	E-60	1.9
	55	2.1
	50	2.4
	45	2.6
	40	2.8
	35	3.0
	30	3.2
	25	3.5
South	02	.1
	04	.2
	06	.3
	08	.4
	10	.4
	12	.5
	14	.6
	19	.8
	24	1.1
5490	29	1.3
6437	34	1.5
7384	39	1.7

Line W45W-S45E

	06	0
	04	0
	02	0
	00	0
	02	0
	04	0
	08	0
	10	.1
	12	.1
	14	.1
	19	.2
	24	.4
	29	.5
	34	.7
	39	.8
	E-60	1.0
	08	0
	10	.1
	12	.1
	14	.1
	19	.2
	24	.4
4285	44	1.0
4954	49	1.2
5624	E-60	1.3

2,348

Feet N from B-00 or M-00

N	M-00 = ft	Miles
	-02 = 200	.0378 X 2.348
	-04 = 400	.0757
	-06 = 600	.1136
	-08 = 800	.1515
	-10 = 1000	.1893
	-12 = 1200	.2272
	-14 = 1400	.2651
	-16 = 1600	.3030
	-18 = 1800	.3409
	23 = 2380	.4355
	28 = 2800	5301
	33 = 3300	6247
	38 = 3800	7193
L-	60 = 4000	8139
	55 = 4500	.9085
	50 = 5000	1.003
	45 = 5500	1.097
	40 = 6000	1.192
	35 = 6500	1.287
	30 = 7000	1.382
	~~25~~ = 7500	1.476

S.

00 = 0	0
02 = 200	.0378
04 = 400	.0757
06 = 600	.1136
08 = 800	.1515
10 = 1000	.1893
12 = 1200	.2272
14 = 1400	.2651
19 = 1900	.3597
24 = 2400	.4544

(N) ~~BE~~ 06 = 0

04 = 142	.0027
02 = 284	.0054
00 = 426	.0080
-02 = 568	.0107
04 = 710	.0134
06 = 852	.0161
08 = 994	.0188
10 = 1136	.0215
12 = 1278	.0242
14 = 1420	.0268
19 = 1775	.0937
24 = 2130	.1607
29 = 24850	.2276
34 = 2840	.2946
39 = 3195	.3615
E-60 = 3550	.4285

S.

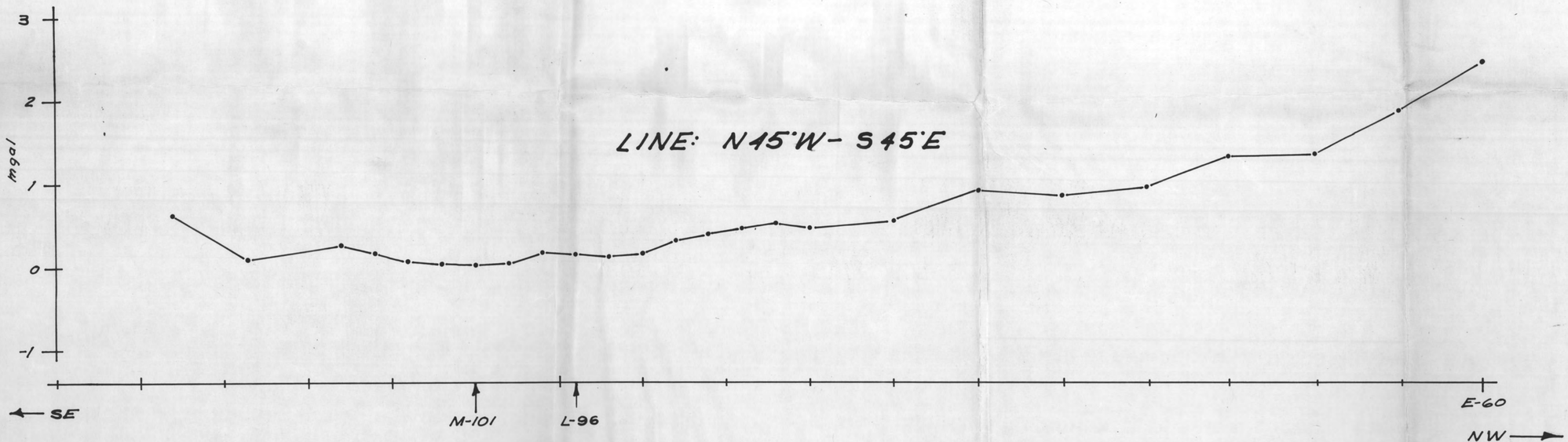
08 = 142	.0027
10 = 284	.0054
12 = 426	.0080
14 = 568	.0107
19 = 1633	.0776
24 = 1988	.1446

Station Spacing

		Lat. Con.
0	0	
5	.095	0.111
10	0.189	0.222
15	0.284	0.333
20	.379	0.444
25	.474	0.555
30	.568	0.666
35	.663	0.777
40	.758	0.889
45	.852	1.000
50	.947	1.111
55	1.042	1.222
60	1.136	1.333
65	1.231	1.445
70	1.325	1.555
75	1.420	1.725
80	1.515	1.778
85	1.609	1.888
90	1.704	2.000
95	1.799	2.112
100	1.894	2.223
105	1.988	2.333
110	2.083	2.445
115	2.178	2.556
120	2.272	2.667
125	2.367	2.778
130	2.462	2.890
135	2.556	3.000
140	2.651	3.112
145	2.746	3.223
150	2.841	3.335
155	2.935	3.445
160	3.030	3.557
165	3.125	3.668
170	3.219	3.779
175	3.314	3.890
180	3.409	4.002
185	3.503	4.112
190	3.598	4.224
195	3.693	4.335
200	3.788	4.447
205	3.882	4.557
210	3.977	4.668

(North)	R-1	6.6	2.4	+.9 =	3.3	+3.3
	R-2	7.2	3.0	+.7 =	3.7	-3.5
	R-3	7.6	3.1	+.4 =	3.5	-3.1
	R-4	7.3	3.1	+.2 =	3.3	-2.6
	R-5	7.5	3.3	OK =	3.3	-2.4
	R-6	7.9	3.7	-.2 =	3.5	-2.4
	R-7	8.2	4.0	-.4 =	3.6	-2.4
	R-8	8.1	3.9	-.7 =	3.2	-1.8
(South end)	R-9	8.0	3.8	-.9 =	2.9	-1.2

INCORRECT



GRAVITY PROFILE
MINERAL HILL AREA
SEC. 1, 2, 12, T.17S. R.12E.
PIMA COUNTY, ARIZONA
FOR
THE ANACONDA CO.
BY
HEINRICHS GEOEPLORATION CO.
AUGUST 1963

HORIZONTAL SCALE: 1"=500'
VERTICAL SCALE: 1"= 1.0 mgal
ρ = 2.65 gm/cc
LOOKING WEST

0 500

OK +++

c

w w c

o

Jean

file for

Future Use

5552

080263-MH-AN	1 OF 3	DECK 001		A
072263SE06-REFER	4108000000000000000343216	09792011740060250	00100	
072263NW000	406500000000000008-0344136	09792011740060250	00101	
072263NW020	40770000000000010P0343911	09792011740060250	00102	
072263NW040	40220000000000013M0344804	09792011740060250	00103	
072263NW060	40340000000000016J0344896	09792011740060250	00104	
072263NW080	406601000000000018Q0344485	09792011740060250	00105	
072263NW100	41760100000000021N0342844	09792011740060250	00106	
072263NW120	41970100000000024K0342537	09792011740060250	00107	
072263NW140	41810200000000026Q0342741	09792011740060250	00108	
072263NW190	41230300000000093P0343638	09792011740060250	00109	
072263NW240	42640400000000160P0341798	09792011740060250	00110	
072263NW290	417203180000002270O342798	09792011740060250	00111	
072263NW340	414407180000002940O343292	09792011740060250	00112	
072263NW390	41101118000000361N0344220	09792011740060250	00113	
072263NW440	40611418000000428N0344892	09792011740060250	00114	
072263NW490	41121718000000495M0344769	09792011740060250	00115	
072263E6000	41722118000000562M0344521	09792011740060250	00116	
072263SE020	41290000000000005M0343181	09792011740060250	00117	
072263SE040	40790000000000002P0343717	09792011740060250	00118	
072263SE080	41580000000000002P0342416	09792011740060250	00119	
072263SE100	41860000000000005M0342096	09792011740060250	00120	
072263SE120	42160000000000008-0341699	09792011740060250	00121	
072263SE140	42540000000000010P0341222	09792011740060250	00122	
072263SE190	432801000000000770O349787	09792011740060250	00123	
072263SE240	437901000000001440O348683	09792011740060250	00124	

These are the NEW decks, corrected as requested. Please scan over these to see if they are OK.

V.E. Haines

080263-MH-AN	2 OF 3	DECK 002		A
072363M000-REFERS	40640000000J0000000343116	09792011740060250	00200	
072363BA115NETTIE	39800000000J00000-0346515	09792011740060250	00201	
072363M0200S	41360000000J00037H0342139	09792011740060250	00202	
072363M0400S	41500000000J00075G0341993	09792011740060250	00203	
072363M0600S	40800000000J00113F0343067	09792011740060250	00204	
072363M0800S	40590000000J00151E0343372	09792011740060250	00205	
072363M1000S	39570000000J00189C0344828	09792011740060250	00206	
072363M1200S	39590000000J00227B0344891	09792011740060250	00207	
072363M1400S	39120100000J00265A0345866	09792011740060250	00208	
072363M1900S	37660100000J00359G0348126	09792011740060250	00209	
072363M2400S	38670J25000J00454D0346221	09792011740060250	00210	
072363M2900S	37550K25000J00549+0347716	09792011740060250	00211	
072363M3400S	38830L25000J00643G0345057	09792011740060250	00212	
072363M3900S	38910M25000J00738D0344678	09792011740060250	00213	
072363M0000N	4043Q021000J00000-0343116	09792011740060250	00214	
072363M0200BASE	N40320121000J00037Q0343034	09792011740060250	00215	
072363M0400N	41240221000J00075P0341690	09792011740060250	00216	
072363M0600N	41030321000J00113O0342052	09792011740060250	00217	
072363M0800N	40590421000J00151N0342563	09792011740060250	00218	
072363M1000N	41450521000J00189L0341375	09792011740060250	00219	
072363M1200N	41250621000J00227K0341633	09792011740060250	00220	
072363M1400N	41430721000J00265J0341416	09792011740060250	00221	
072363M1600N	41660821000J00303-0341250	09792011740060250	00222	
072363M1800N	41711021000J00340R0341042	09792011740060250	00223	
072363M2300N	42110L43000J00435N0340652	09792011740060250	00224	

080263-MH-AN	3 OF 3	DECK 003		A
072363M000-REFERS	40640000000100000000343116	09792011740060250	00300	

ALLIED EGRY BUSINESS SYSTEMS, LA FORM 6416

072363M2800N	433806430001005 30J0338885	09792011740060250	00301
072363M3300N	43360Q43000100624P0338818	09792011740060250	00302
072363M3800N	43701-43000100719L0338048	09792011740060250	00303
072463L6000LINE	L44231M43001J00813R0338362	09792011740060250	00304
072463L5500	47100000001J00908N0335329	09792011740060250	00305
072463L5000	46490J00001J01003-0336244	09792011740060250	00306
072463L4500	46550J00001J01097-0336723	09792011740060250	00307
072463L4000	43290000001J01192-0333949	09792011740060250	00308
072463L3500	49510000001J01287-0332697	09792011740060250	00309
072463L3000	50930000001J01382-0330588	09792011740060250	00310
072463L2500	41480100001J01476-0329719	09792011740060250	00311

080263-TB-AN		DECK 004	A
071163BK11MREFER	406000000000000000000341136	09792011740060250	00400
071163A0000LINE	A3066000000000000-0358188	09792011740060250	00401
071163A0050	33950K00000000095+0352853	09792011740060250	00402
071163A0100	35870P00000000189+0349843	09792011740060250	00403
071163A0150	36330R00000000284+0348449	09792011740060250	00404
071163A0200	3576000P000000379+0348665	09792011740060250	00405
071163A0250	3566000P000000474+0347921	09792011740060250	00406
071163A0300	3566000P000000568+0347977	09792011740060250	00407
071163A0350	3554000P000000663+0347945	09792011740060250	00408
071163A0400	3530000L000000758+0348203	09792011740060250	00409
071163A0450	3567000L000000852+0347724	09792011740060250	00410
071163A0500	3530000L000000947+0348555	09792011740060250	00411
071163A0550	3573000L000001042+0348673	09792011740060250	00412

080263-TB-AN		DECK 005	A
071263BK11MREFER	406000000000000000000341136	09792011740060250	00500
071263A0600LINE	A3643000L003201136+0348918	09792011740060250	00501
071263A0650	36700J00003201231+0349277	09792011740060250	00502
071263A0700	34500L00003201325+0353139	09792011740060250	00503
071263A0750	31190N00003201470+0357266	09792011740060250	00504
071263A0800	368000000003201515+0348206	09792011740060250	00505
071263A0850	369602000003201609+0347970	09792011740060250	00506
071263A0900	365503000003201704+0348497	09792011740060250	00507
071263A0950	365404000003201799+0347748	09792011740060250	00508
071263A1000	373206000003201894+0347042	09792011740060250	00509
071263A1050	363507000003201988+0348807	09792011740060250	00510
071263A1100	359908000003202083+0348768	09792011740060250	00511
071263A1150	3802010L003202178+0345029	09792011740060250	00512
071263A1200	3724020L003202272+0346121	09792011740060250	00513
071263A1250	3626030L003202367+0348134	09792011740060250	00514
071263A1300	3708040L003202462+0346991	09792011740060250	00515
071263A1350	3607060L003202556+0348070	09792011740060250	00516
071263A1400	3730000L003202651+0346356	09792011740060250	00517
071263A1450FND	A 3483000L003202746+0350355	09792011740060250	00518

080263-TB-AN		DECK 006	A
071263BK11MREFERR	406000000000000000000341136	09792011740060250	00600
071263B1200LINE	B3869010300320236 7-0343382	09792011740060250	00601
071263B1150	40480103003202272-0341557	09792011740060250	00602
071263B1100	39250107003202178+0343326	09792011740060250	00603
071263B1050	39370207003202983+0343954	09792011740060250	00604
071263B1000	40360307003201988+0342998	09792011740060250	00605
071263B0950	40070407003201894+0343613	09792011740060250	00606
071263B0900	41200607003201799+0340872	09792011740060250	00607

ALLIED EGRY BUSINESS SYSTEMS, LA FORM 6416

071563B0850LINE	B38510K00012101704+0341631	09792011740060250	00608
071563B0800	37870L00012101609+0341500	09792011740060250	00609
071563B0750	36950M00012101515+0342852	09792011740060250	00610
071563B0700	36150P00012101470+0344583	09792011740060250	00611
071563B0650	3806000K012101325+0343236	09792011740060250	00612
071563B0600	3760010K012101231+0345015	09792011740060250	00613
071563B0550	3921010K012101136+0343244	09792011740060250	00614
071563B0500	3841020K012101042+0344903	09792011740060250	00615
071563B0450	3474000R012100947+0350109	09792011740060250	00616
071563B0400	3429000R012100852+0350442	09792011740060250	00617
071563B0350	37230J0R012100758+0343216	09792011740060250	00618
071563B0300	35940J0R012100663+0343987	09792011740060250	00619
071563B0250	3567000K012100568+0344064	09792011740060250	00620
071563B0200	3571010K012100474+0343917	09792011740060250	00621

080263-TB-AN		DECK 007	A
071563BK11MREFER	406000000000000000000341136	09792011740060250	00700
071563B0150	3553010K012100379+0343884	09792011740060250	00701
071563B0100	3641020K012100284+0343763	09792011740060250	00702
071663B0050	3599000004800189+0343879	09792011740060250	00703
071663B0005	359800000048000 95A0343982	09792011740060250	00704
071663B0000END	B36100J00004800000-0345631	09792011740060250	00705
071663C0000LINE	C2989000P004800000-0356021	09792011740060250	00706
071663C0050	3850000P004800095+0341552	09792011740060250	00707
071663C0100	38810J00004800189+0339962	09792011740060250	00708
071663C0150	38730J0PP04800284+0339668	09792011740060250	00709
071663C0200	38380J0P004800379+0339577	09792011740060250	00710
071663C0250	3840000Q004800474+0339162	09792011740060250	00711
071663C0300	3774000Q004800568+0339877	09792011740060250	00712
071663C0350	3855010Q004800663+0339525	09792011740060250	00713
071663C0400	3911010Q004800758+0339584	09792011740060250	00714
071663C0450	3951020Q004800852+0338431	09792011740060250	00715
071663C0500	3910030Q004800947+0338954	09792011740060250	00716
071663C0550	4019000Q004801042+0338467	09792011740060250	00717
071663C0600	40500J0Q004801136+0338907	09792011740060250	00718
071663C0650	36980K0Q004801231+0346550	09792011740060250	00719
071663C0700	38850L0Q004801325+0344116	09792011740060250	00720
071663C0750	4114040Q004801470+0338875	09792011740060250	00721

080263-TB-AN		DECK 008	A
071763BK11MREFER	406000000000000000000341136	09792011740060250	00800
071763C0800LINE	C40430000002M01515+0338340	09792011740060250	00801
071763C0850	40260000002M01609+0338202	09792011740060250	00802
071763C0900	39580000002M01704+0338547	09792011740060250	00803
071763C0950	39290000002M01799+0338608	09792011740060250	00804
071763C1000	39510100002M01894+0337985	09792011740060250	00805
071863C1050	3976020004401988+0336747	09792011740060250	00806
071863C1100	3955030004402083+0337954	09792011740060250	00807
071863C1150	4044040004402178+0337566	09792011740060250	00808
071863C1200	4056050004402272+0337673	09792011740060250	00809
071863C1250	4088060004402367+0337080	09792011740060250	00810
071863C1300	4078070004402462+0336407	09792011740060250	00811
071863C1350END	C39100711004402556+0338089	09792011740060250	00812
071863D1350LINE	D42161511004402556+0331645	09792011740060250	00813
071863D1300	4166191004402462+0332095	09792011740060250	00814
071863D1250	4154221004402367+0332398	09792011740060250	00815
071863D1200	4090003304402272+0333610	09792011740060250	00816
071863D1150	4101003304402178+0333743	09792011740060250	00817

ALLIED EGRY BUSINESS SYSTEMS, LA FORM 6416

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071863D1100      42390033004402083+0332468      09792011740060250      00818
071863D1050      41600033004401988+0334264      09792011740060250      00819
071863D1000      42710033004401894+0333014      09792011740060250      00820
071863D0950      41770033004401799+0334519      09792011740060250      00821

080263-TB-AN                                    DECK 009                    A
071963BK11MREFER 406000000000000000341136       09792011740060250      00900
071963D0500LINE D41900000005500947+0335587      09792011740060250      00901
071963D0450      40830000005500852+0334479      09792011740060250      00902
071963D0400      40550000005500758+0334510      09792011740060250      00903
071963D0350      40090000005500663+0334847      09792011740060250      00904
071963D0300      40090000005500568+0334983      09792011740060250      00905
071963D0250      4074000N005500474+0334416      09792011740060250      00906
071963D0200      4191000N005500379+0334567      09792011740060250      00907
071963D0150      4291000N005500284+0335062      09792011740060250      00908
071963D0100      3762000N005500189+0343485      09792011740060250      00909
071963D0 50      26710007005500095+0358987      09792011740060250      00910
071963D0000END  D26860007005500000-0358899      09792011740060250      00911

080263-TB-AN                                    DECK 010                    A
072963BK11MREFERI406000000000000000341136       09792011740060250      01000
072963E-090LINE E41010K1-042401704+0328617      09792011740060250      01001
072963E-095      41320007042401799+0327792      09792011740060250      01002
072963E-100      41090J07042401894+0328229      09792011740060250      01003
072963E-105      40010J07042401988+0329828      09792011740060250      01004
072963E-110      40880K07042402083+0328319      09792011740060250      01005
072963E-115      39890J07042402178+0329554      09792011740060250      01006
072963E-120      39730J07042402272+0329241      09792011740060250      01007
072963E-125      39450K07042402367+0329265      09792011740060250      01008
072963E-130      38920003042402462+0329757      09792011740060250      01009
072963E-135END  E39920003042402556+0328349      09792011740060250      01010
072963F-135LINE F41550008042402556+0325106      09792011740060250      01011
072963F-130      41590008042402462+0324917      09792011740060250      01012
072963F-125      41570008042402367+0325330      09792011740060250      01013
072963F-120      42990008042402272+0324918      09792011740060250      01014
072963F-115      42970008042402178+0325330      09792011740060250      01015
072963F-110      42170J08042402083+0325061      09792011740060250      01016
072963F-105      42280000003701988+0324562      09792011740060250      01017

080263-TB-AN                                    DECK 011                    A
072963BK11MREFER 406000000000000000341136       09792011740060250      01100
072963E0000LINE E41230J00042400000+0330540      09792011740060250      01101
072963E0050      42150K00042400095+0329639      09792011740060250      01102
072963E0100      41940L00042400189+0329994      09792011740060250      01103
072963E0150      41270000042400284+0330441      09792011740060250      01104
072963E0200      41330J0R042400379+0329614      09792011740060250      01105
072963E0250      41040J0R042400474+0329784      09792011740060250      01106
072963E0300      41510K0R042400568+0329905      09792011740060250      01107
072963E0350      4301000R042400663+0329032      09792011740060250      01108
072963E0400      42030 1K042400758+0329828      09792011740060250      01109
072963E0450      4080011K042400852+0329890      09792011740060250      01110
072963E0500      4043021K042400947+0329323      09792011740060250      01111
072963E0550      4050031K042401042+0328694      09792011740060250      01112
072963E0600      4088001K042401136+0327884      09792011740060250      01113
072963E0650      40100J1K042401231+0329141      09792011740060250      01114
072963E0700      39980K1K042401325+0329566      09792011740060250      01115
072963E0750      39970L1K042401470+0329859      09792011740060250      01116
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ALLIED EGRY BUSINESS SYSTEMS, LA FORM 6416

072963E0800	4056001-042401515+0329333	09792011740060250	01117
072963E0850	41290J1-042401609+0328336	09792011740060250	01118

080263-TB-AN		DECK 012	A
073063BK11MREFERI	406000000000000000000341136	09792011740060250	01200
073063G-000LINE	G4594000046100000-0319713	09792011740060250	01201
073063G-005	442800000046100095+0321581	09792011740060250	01202
073063G-010	439800000046100189+0321868	09792011740060250	01203
073063G-015	442800000046100284+0321836	09792011740060250	01204
073063G-020	441900000046100379+0322113	09792011740060250	01205
073063G-025	438700003046100474+0322862	09792011740060250	01206
073063G-030	442100003046100568+0322692	09792011740060250	01207
073063G-035	444100003046100663+0322925	09792011740060250	01208
073063G-040	448800003046100758+0322245	09792011740060250	01209
073063G-045	444400003046100852+0322551	09792011740060250	01210
073063G-050	445200002046100947+0322379	09792011740060250	01211
073063G-055	449400002046101042+0321701	09792011740060250	01212
073063G-060	44600J02046101136+0322111	09792011740060250	01213
073063G-065	44800K02046101231+0321701	09792011740060250	01214
073063G-070	44120J00046601325+0322028	09792011740060250	01215

080263-TB-AN		DECK 013	A
073063BK11MREFERI	406000000000000000000341136	09792011740060250	01300
073063F-000LINE	F4328000M046100000-0324105	09792011740060250	01301
073063F-005	4295000L046100095+0324481	09792011740060250	01302
073063F-010	4188000L046100189+0325832	09792011740060250	01303
073063F-015	4155000L046100284+0326291	09792011740060250	01304
073063F-020	4205011J046100379+0325911	09792011740060250	01305
073063F-025	4223001J046100474+0326143	09792011740060250	01306
073063F-030	4196001J046100568+0326767	09792011740060250	01307
073063F-035	4242031M046100663+0326430	09792011740060250	01308
073063F-040	4337031M046100758+0325486	09792011740060250	01309
073063F-045	4337011M046100852+0326043	09792011740060250	01310
073063F-050	4320001M046100947+0326190	09792011740060250	01311
073063F-055	42790K0Q046101042+0325704	09792011740060250	01312
073063F-060	42610J0Q046101136+0325066	09792011740060250	01313
073063F-065	41790J0Q046101231+0326098	09792011740060250	01314
073063F-070	418500Q046101325+0325971	09792011740060250	01315
073063F-075	418800Q046101470+0325955	09792011740060250	01316
073063F-080	417800Q046101515+0326201	09792011740060250	01317
073063F-085	420500Q046101609+0325708	09792011740060250	01318
073063F-090	427200Q046101704+0324644	09792011740060250	01319
073063F-095	42200J0046101799+0325040	09792011740060250	01320
073063F-100	426500080461018 94+0324152	09792011740060250	01321

080263-TB-AN		DECK 014	A
073163BK11MREFERI	406000000000000000000341136	09792011740060250	01400
073163H-105LINE	H4634001K046601988+0316717	09792011740060250	01401
073163H-100	4652001K046601894+0316670	09792011740060250	01402
073163H-095	4716001K046601799+0315631	09792011740060250	01403
073163H-090	4674001K046601704+0316491	09792011740060250	01404
073163H-085	46990J1K046601609+0316322	09792011740060250	01405
073163H-080	463900QQ046601515+0317185	09792011740060250	01406
073163H-075	466400QQ046601470+0316977	09792011740060250	01407
073163H-070	463500QQ046601325+0317549	09792011740060250	01408
073163H-065	462700QQ046601231+0318016	09792011740060250	01409
073163H-060	462401QQ046601136+0318280	09792011740060250	01410

ALLIED EGRY BUSINESS SYSTEMS, LA FORM 6416

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073163H-055      4666020Q046601042+0317722          09792011740060250      01411

080263-TB-AN                                        DECK 015                    A
073163BK11MREFERI4060000000000000000341136          09792011740060250      01500
073163G-075LINE G44000K0046601470+0322129           09792011740060250      01501
073163G-080      43950M0046601515+0321792           09792011740060250      01502
073163G-085      4492000046601609+0320183           09792011740060250      01503
073163G-090      4429000L046601704+0320889          09792011740060250      01504
073163G-095      4336010L046601799+0321909          09792011740060250      01505
073163G-100      4423020L046601894+0320632          09792011740060250      01506
073163G-105      43520K1046601988+0321455           09792011740060250      01507
073163G-110      43450N1046602083+0321594           09792011740060250      01508
073163G-115      43050P1046602178+0321989           09792011740060250      01509
073163G-120      43121-1046602272+0321646           09792011740060250      01510
073163G-125      4310000046602367+0321540           09792011740060250      01511
073163G-130      4296000046602462+0321575           09792011740060250      01512
073163G-135END   G4285000046602556+0321616           09792011740060250      01513

080263 TB AN                                        DECK 016                    A
080163BK114REFERI4060000000000000000341136          09792011740060250      01600
080163H-050LINE H4582000044300947+0318593           09792011740060250      01601
080163H-045      4634000044300852+0318144           09792011740060250      01602
080163H-040      4625000044300758+0318664           09792011740060250      01603
080163H-035      4625100044300663+0318807           09792011740060250      01604
080163H-030      4616020044300568+0318824           09792011740060250      01605
080163H-025      4621000344300474+0318510           09792011740060250      01606
080163H-020      4614010344300379+0318365           09792011740060250      01607
080163H-015      4594020344300284+0318325           09792011740060250      01608
080163H-010      4647000344300189+0317459           09792011740060250      01609
080163H-005      4667000344300095+0317096           09792011740060250      01610
080163H-000END   H4767000344300000-0315827           09792011740060250      01611
080163R-900ROAD   3264000044300000-0340493           09792011740060250      01612
080163R-800       3211000044300095J0341051          09792011740060250      01613
080163R-700       3149000044300189-0341677          09792011740060250      01614
080163R-600       3242000044300284-0340406          09792011740060250      01615
080163R-500       3358000044300379-0338988          09792011740060250      01616
080163R-400       3336000044300474-0339547          09792011740060250      01617
080163R-300       3206000044300568-0341474          09792011740060250      01618
080163R-200       3093000044300663-0343368          09792011740060250      01619
080163R-100END   R3045000044300785-0344817           09792011740060250      01620

080263-TB-AN                                        DECK 017                    A
071863BK11MREFER 4060000000000000000341136          09792011740060250      01700
071863D-090LINE D4228001204680 1704-0333806         09792011740060250      01701
071863D-085      4184001204680 1609-0334434         09792011740060250      01702
071863D-080      4084001204680 1515-0335487         09792011740060250      01703
071863/M075      4144001204680 1470-0334614         09792011740060250      01704
071863/M070      41060J1204680 1325-0335065         09792011740060250      01705
071863/M065      40790J1204680 1231-0335528         09792011740060250      01706
071863/M060      42790K1204680 1136-0333196         09792011740060250      01707
071863/M055      42220K1204680 1042-0334208         09792011740060250      01708
071763C-015LINE C38730J0P047200284-0339668          09792011740060250      01709
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ALLIED GRY BUSINESS SYSTEMS, LA FORM 6416.

072263SE06-REFER	4108000000000000000343216	09792011740060250	00100
072263NW000	4065000000000000800344136	09792011740060250	00101
072263NW020	4077000000000001070343911	09792011740060250	00102
072263NW040	4022000000000001340344804	09792011740060250	00103
072263NW060	4034000000000001610344896	09792011740060250	00104
072263NW080	4066010000000001880344485	09792011740060250	00105
072263NW100	4176010000000002150342844	09792011740060250	00106
072263NW120	4197010000000002420342537	09792011740060250	00107
072263NW140	4181020000000002680342741	09792011740060250	00108
072263NW190	4123030000000009370343638	09792011740060250	00109
072263NW240	4264040000000016070341798	09792011740060250	00110
072263NW290	4172031800000022760342798	09792011740060250	00111
072263NW340	4144071800000029460343292	09792011740060250	00112
072263NW390	4110111800000036150344220	09792011740060250	00113
072263NW440	4061141800000042850344892	09792011740060250	00114
072263NW490	4112171800000049540344769	09792011740060250	00115
072263E6000	4172211800000056240344521	09792011740060250	00116
072263SE020	4129000000000000540343181	09792011740060250	00117
072263SE040	4079000000000000270343717	09792011740060250	00118
072263SE080	4158000000000000270342416	09792011740060250	00119
072263SE100	4186000000000000540342096	09792011740060250	00120
072263SE120	4216000000000000800341699	09792011740060250	00121
072263SE140	4254000000000001070341222	09792011740060250	00122
072263SE190	4328010000000007760349787	09792011740060250	00123
072263SE240	4379010000000014460348683	09792011740060250	00124

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Deck Number
CARD NUMBER

Jack — the change is in Col. 26-27 only

the values remain the same just the sign changes

072363M000-REFERS	406400000000J0000000343116	09792011740060250	00200
072363BA115NETTIE	398000000000J0000000346515	09792011740060250	00201
072363M0200S	41360000000J00037Q0342139	09792011740060250	00202
072363M0400S	41500000000J00075P0341993	09792011740060250	00203
072363M0600S	40800000000J00113O0343067	09792011740060250	00204
072363M0800S	40590000000J00151N0343372	09792011740060250	00205
072363M1000S	39570000000J00189L0344828	09792011740060250	00206
072363M1200S	39590000000J00227K0344891	09792011740060250	00207
072363M1400S	39120100000J00265J0345866	09792011740060250	00208
072363M1900S	37660100000J00359P0348126	09792011740060250	00209
072363M2400S	38670J25000J00454M0346221	09792011740060250	00210
072363M2900S	37550K25000J00549-0347716	09792011740060250	00211
072363M3400S	38830L25000J00643P0345057	09792011740060250	00212
072363M3900S	38910M25000J00738M0344678	09792011740060250	00213
072363M0000N	404300210000J0000000343116	09792011740060250	00214
072363M0200BASE N	403201210000J0003780343034	09792011740060250	00215
072363M0400N	41240221000J0007570341690	09792011740060250	00216
072363M0600N	41030321000J0011360342052	09792011740060250	00217
072363M0800N	40590421000J0015150342563	09792011740060250	00218
072363M1000N	41450521000J0018930341375	09792011740060250	00219
072363M1200N	41250621000J0022720341633	09792011740060250	00220
072363M1400N	41430721000J0026510341416	09792011740060250	00221
072363M1600N	41660821000J0030300341250	09792011740060250	00222
072363M1800N	41711021000J0034090341042	09792011740060250	00223
072363M2300N	42110L43000J0043550340652	09792011740060250	00224

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Clon 26- 29 only

ALLIED ELECTRONIC BUSINESS SYSTEMS, LA FORM 6416

5817

072363M000-REFERS	406400000001	0000000343116	09792011740060250	00300
072363M2800N	433806430001	0053010338885	09792011740060250	00301
072363M3300N	43360Q430001	0062470338818	09792011740060250	00302
072363M3800N	43701-430001	0071930338048	09792011740060250	00303
072463L6000LINE	L44231M43001J	0081390338362	09792011740060250	00304
072463L5500	47100000001J	0090850335329	09792011740060250	00305
072463L5000	46490J00001J	0100300336244	09792011740060250	00306
072463L4500	46550J00001J	0109700336723	09792011740060250	00307
072463L4000	43290000001J	0119200333949	09792011740060250	00308
072463L3500	49510000001J	0128700332697	09792011740060250	00309
072463L3000	50930000001J	0138200330588	09792011740060250	00310
072463L2500	41480100001J	0147600329719	09792011740060250	00311

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ALLIED BUSINESS SYSTEMS, LA FORM 6416

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071163BK11MREFER 4060000000000000000341136      09792011740060250      00400
071163A0000LINE A3066000000000000000358188      09792011740060250      00401
071163A0050      33950K000000000095-0352853      09792011740060250      00402
071163A0100      35870P000000000189-0349843      09792011740060250      00403
071163A0150      36330R000000000284-0348449      09792011740060250      00404
071163A0200      3576000P000000379-0348665      09792011740060250      00405
071163A0250      3566000P000000474-0347921      09792011740060250      00406
071163A0300      3566000P000000568-0347977      09792011740060250      00407
071163A0350      3554000P000000663-0347945      09792011740060250      00408
071163A0400      3530000L000000758-0348203      09792011740060250      00409
071163A0450      3567000L000000852-0347724      09792011740060250      00410
071163A0500      3530000L000000947-0348555      09792011740060250      00411
071163A0550      3573000L000001042-0348673      09792011740060250      00412
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ALLIED GRY BUSINESS SYSTEMS, LA FORM 6416

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071263BK11MREFER 406000000000000000341136      09792011740060250      00500
071263A0600LINE A3643000L003201136-0348918     09792011740060250      00501
071263A0650      36700J000032012 31-0349277    09792011740060250      00502
071263A0700      34500L000032013 25-0353139    09792011740060250      00503
071263A0750      31190N000032014 70-0357266    09792011740060250      00504
071263A0800      36800000003201515-0348206     09792011740060250      00505
071263A0850      36960200003201609-0347970     09792011740060250      00506
071263A0900      36550300003201704-0348497     09792011740060250      00507
071263A0950      36540400003201799-0347748     09792011740060250      00508
071263A1000      37320600003201894-0347042     09792011740060250      00509
071263A1050      36350700003201988-0348807     09792011740060250      00510
071263A1100      35990800003202083-0348768     09792011740060250      00511
071263A1150      3802010L003202178-0345029     09792011740060250      00512
071263A1200      3724020L003202272-0346121     09792011740060250      00513
071263A1250      3626030L003202367-0348134     09792011740060250      00514
071263A1300      3708040L003202462-0346991     09792011740060250      00515
071263A1350      36070603003202556-0348070     09792011740060250      00516
071263A1400      37300003003202651-0346356     09792011740060250      00517
071263A1450FND A 34830003003202746-0350355     09792011740060250      00518
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ALLIED BUSINESS SYSTEMS, LA FORM 6416

2679

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071263BK11MREFERR4060000000000000000341136    09792011740060250    00600
071263B1200LINE B3869010300320236700343382    09792011740060250    00601
071263B1150      4048010300320227200341557    09792011740060250    00602
071263B1100      3925010700320217 8-0343326    09792011740060250    00603
071263B1050      3937020700320298 3-0343954    09792011740060250    00604
071263B1000      4036030700320198 8-0342998    09792011740060250    00605
071263B0950      4007040700320189 4-0343613    09792011740060250    00606
071263B0900      4120060700320179 9-0340872    09792011740060250    00607
071563B0850LINE B38510K00012101704-0341631    09792011740060250    00608
071563B0800      37870L00012101609-0341500    09792011740060250    00609
071563B0750      36950M00012101515-0342852    09792011740060250    00610
071563B0700      36150P00012101470-0344583    09792011740060250    00611
071563B0650      3806000K012101325-0343236    09792011740060250    00612
071563B0600      3760010K012101231-0345015    09792011740060250    00613
071563B0550      3921010K012101136-0343244    09792011740060250    00614
071563B0500      3841020K012101042-0344903    09792011740060250    00615
071563B0450      3474000R012100947-0350109    09792011740060250    00616
071563B0400      3429000R012100852-0350442    09792011740060250    00617
071563B0350      37230J0R012100758-0343216    09792011740060250    00618
071563B0300      35940J0R012100663-0343987    09792011740060250    00619
071563B0250      3567000K012100568-0344064    09792011740060250    00620
071563B0200      3571010K012100474-0343917    09792011740060250    00621
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col 26-29 only

ALLIED ERY BUSINESS SYSTEMS, LA FORM 6416

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071563BK11MREFER	406000000000000000000341136	09792011740060250	00700
071563B0150	3553010K012100379-0343884	09792011740060250	00701
071563B0100	3641020K012100284-0343763	09792011740060250	00702
071663B0050	3599000000004800189-0343879	09792011740060250	00703
071663B0005	3598000000004800095J0343982	09792011740060250	00704
071663B0000END	B36100J000048000000000345631	09792011740060250	00705
071663C0000LINE	C2989000P00480000000356021	09792011740060250	00706
071663C0050	3850000P004800095-0341552	09792011740060250	00707
071663C0100	38810J00004800189-0339962	09792011740060250	00708
071663C0150	38730JOPP04800284-0339668	09792011740060250	00709
071663C0200	38380JOP004800379-0339577	09792011740060250	00710
071663C0250	384000Q004800474-0339162	09792011740060250	00711
071663C0300	377400Q004800568-0339877	09792011740060250	00712
071663C0350	385510Q004800663-0339525	09792011740060250	00713
071663C0400	391101Q004800758-0339584	09792011740060250	00714
071663C0450	395102Q004800852-0338431	09792011740060250	00715
071663C0500	391003Q004800947-0338954	09792011740060250	00716
071663C0550	401900Q004801042-0338467	09792011740060250	00717
071663C0600	40500JOQ004801136-0338907	09792011740060250	00718
071663C0650	36980K0Q004801231-0346550	09792011740060250	00719
071663C0700	38850L0Q004801325-0344116	09792011740060250	00720
071663C0750	411404Q004801470-0338875	09792011740060250	00721

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Col 26-29 only

ALLIED ERP BUSINESS SYSTEMS, LA | FORM 6416

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071763BK11MREFER 406000000000000000341136      09792011740060250      00800
071763C0800LINE C40430000002M01515-0338340     09792011740060250      00801
071763C0850      40260000002M01609-0338202     09792011740060250      00802
071763C0900      39580000002M01704-0338547     09792011740060250      00803
071763C0950      39290000002M01799-0338608     09792011740060250      00804
071763C1000      39510100002M01894-0337985     09792011740060250      00805
071863C1050      39760200004401988-0336747     09792011740060250      00806
071863C1100      39550300004402083-0337954     09792011740060250      00807
071863C1150      40440400004402178-0337566     09792011740060250      00808
071863C1200      40560500004402272-0337673     09792011740060250      00809
071863C1250      40880600004402367-0337080     09792011740060250      00810
071863C1300      40780700004402462-0336407     09792011740060250      00811
071863C1350END   C39100711004402556-0338089    09792011740060250      00812
071863D1350LINE D42161511004402556-0331645     09792011740060250      00813
071863D1300      41661911004402462-0332095     09792011740060250      00814
071863D1250      41542211004402367-0332398     09792011740060250      00815
071863D1200      40900033004402272-0333610     09792011740060250      00816
071863D1150      41010033004402178-0333743     09792011740060250      00817
071863D1100      42390033004402083-0332468     09792011740060250      00818
071863D1050      41600033004401988-0334264     09792011740060250      00819
071863D1000      42710033004401894-0333014     09792011740060250      00820
071863D0950      41770033004401799-0334519     09792011740060250      00821
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col 26-29 only

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ALLIED ECRY BUSINESS SYSTEMS, LA FORM 6416

```
071963BK11MREFER 406000000000000000341136      09792011740060250      00900
071963D0500LINE D4190000005500947-0335587      09792011740060250      00901
071963D0450      4083000005500852-0334479      09792011740060250      00902
071963D0400      4055000005500758-0334510      09792011740060250      00903
071963D0350      4009000005500663-0334847      09792011740060250      00904
071963D0300      4009000005500568-0334983      09792011740060250      00905
071963D0250      4074000N005500474-0334416      09792011740060250      00906
071963D0200      4191000N005500379-0334567      09792011740060250      00907
071963D0150      4291000N005500284-0335062      09792011740060250      00908
071963D0100      3762000N005500189-0343485      09792011740060250      00909
071963D0 50      2671000700550095-0358987      09792011740060250      00910
071963D0000END  D2686000700550000000358899      09792011740060250      00911
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col 26-29 only

ALLIED GRY BUSINESS SYSTEMS, LA FORM 6416

5625

072963BK11MREFERI	4060000000000000000341136	09792011740060250	01000
072963E-090LINE	E41010K1-042401704-0328617	09792011740060250	01001
072963E-095	41320007042401799-0327792	09792011740060250	01002
072963E-100	41090J07042401894-0328229	09792011740060250	01003
072963E-105	40010J07042401988-0329828	09792011740060250	01004
072963E-110	40880K07042402083-0328319	09792011740060250	01005
072963E-115	39890J07042402178-0329554	09792011740060250	01006
072963E-120	39730J07042402272-0329241	09792011740060250	01007
072963E-125	39450K07042402367-0329265	09792011740060250	01008
072963E-130	38920003042402462-0329757	09792011740060250	01009
072963E-135END	E39920003042402556-0328349	09792011740060250	01010
072963F-135LINE	F41550008042402556-0325106	09792011740060250	01011
072963F-130	41590008042402462-0324917	09792011740060250	01012
072963F-125	41570008042402367-0325330	09792011740060250	01013
072963F-120	42990008042402272-0324918	09792011740060250	01014
072963F-115	42970008042402178-0325330	09792011740060250	01015
072963F-110	42170J08042402083-0325061	09792011740060250	01016
072963F-105	42280000003701988-0324562	09792011740060250	01017

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col 26-29 only

ALLIED GSBY BUSINESS SYSTEMS, LA FORM 6416

072963BK11MREFER	406000000000000000341136	09792011740060250	01100
072963E0000LINE	E41230J00042400000-0330540	09792011740060250	01101
072963E0050	42150K00042400095-0329639	09792011740060250	01102
072963E0100	41940L00042400189-0329994	09792011740060250	01103
072963E0150	41270000042400284-0330441	09792011740060250	01104
072963E0200	41330J0R042400379-0329614	09792011740060250	01105
072963E0250	41040J0R042400474-0329784	09792011740060250	01106
072963E0300	41510K0R042400568-0329905	09792011740060250	01107
072963E0350	4301000R042400663-0329032	09792011740060250	01108
072963E0400	42030 1K042400758-0329828	09792011740060250	01109
072963E0450	4080011K042400852-0329890	09792011740060250	01110
072963E0500	4043021K042400947-0329323	09792011740060250	01111
072963E0550	4050031K042401042-0328694	09792011740060250	01112
072963E0600	4088001K042401136-0327884	09792011740060250	01113
072963E0650	40100J1K042401231-0329141	09792011740060250	01114
072963E0700	39980K1K042401325-0329566	09792011740060250	01115
072963E0750	39970L1K042401470-0329859	09792011740060250	01116
072963E0800	4056001-042401515-0329333	09792011740060250	01117
072963E0850	41290J1-042401609-0328336	09792011740060250	01118

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Col 26-29 only

ALLIED GRY BUSINESS SYSTEMS, LA FORM 6416

073063BK11MREFERI	4060000000000000000341136	09792011740060250	01200
073063G-000LINE	G4594000000370000000319713	09792011740060250	01201
073063G-005	44280000003700095-0321581	09792011740060250	01202
073063G-010	43980000003700189-0321868	09792011740060250	01203
073063G-015	44280000003700284-0321836	09792011740060250	01204
073063G-020	44190000003700379-0322113	09792011740060250	01205
073063G-025	43870003003700474-0322862	09792011740060250	01206
073063G-030	44210003003700568-0322692	09792011740060250	01207
073063G-035	44410003003700663-0322925	09792011740060250	01208
073063G-040	44880003003700758-0322245	09792011740060250	01209
073063G-045	44440003003700852-0322551	09792011740060250	01210
073063G-050	44520002003700947-0322379	09792011740060250	01211
073063G-055	44940002003701042-0321701	09792011740060250	01212
073063G-060	44600J02003701136-0322111	09792011740060250	01213
073063G-065	44800K02003701231-0321701	09792011740060250	01214
073063G-070	44120J00004201325-0322028	09792011740060250	01215

col. 26 29

Col 26 to 29 add 042.4 to all cards from Deck 12 to Deck 16 (042.4 + value already in col 26-29)

add 042.4 to all

** Do Not add 042.4 to just card of Deck - Ref. remains the same throughout calculations

```
073063BK11MREFERI4060000000000000000341136      09792011740060250      01300
073063F-000LINE F4328000M00370000000324105      09792011740060250      01301
073063F-005      4295000L003700095-0324481      09792011740060250      01302
073063F-010      4188000L003700189-0325832      09792011740060250      01303
073063F-015      4155000L003700284-0326291      09792011740060250      01304
073063F-020      4205011J003700379-0325911      09792011740060250      01305
073063F-025      4223001J003700474-0326143      09792011740060250      01306
073063F-030      4196001J003700568-0326767      09792011740060250      01307
073063F-035      4242031M003700663-0326430      09792011740060250      01308
073063F-040      4337031M003700758-0325486      09792011740060250      01309
073063F-045      4337011M003700852-0326043      09792011740060250      01310
073063F-050      4320001M003700947-0326190      09792011740060250      01311
073063F-055      42790KOQ003701042-0325704      09792011740060250      01312
073063F-060      42610JOQ003701136-0325066      09792011740060250      01313
073063F-065      41790JOQ003701231-0326098      09792011740060250      01314
073063F-070      4185000Q003701325-0325971      09792011740060250      01315
073063F-075      4188000Q003701470-0325955      09792011740060250      01316
073063F-080      4178000Q003701515-0326201      09792011740060250      01317
073063F-085      4205000Q003701609-0325708      09792011740060250      01318
073063F-090      4272000Q003701704-0324644      09792011740060250      01319
073063F-095      42200J00003701799-0325040      09792011740060250      01320
073063F-100      4265000800370189 4-0324152     09792011740060250      01321
```

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add 042.4 to all

Col 26-29

Do not add to just card ("01300")

add 042.4 + value already in col 26-29

ALLIED EGRY BUSINESS SYSTEMS, LA FORM 6416

```
073163BK11MREFERI4060000000000000000341136      09792011740060250      01400
073163H-105LINE H4634001K004201988-0316717      09792011740060250      01401
073163H-100      4652001K004201894-0316670      09792011740060250      01402
073163H-095      4716001K004201799-0315631      09792011740060250      01403
073163H-090      4674001K004201704-0316491      09792011740060250      01404
073163H-085      46990J1K004201609-0316322      09792011740060250      01405
073163H-080      4639000Q004201515-0317185      09792011740060250      01406
073163H-075      4664000Q004201470-0316977      09792011740060250      01407
073163H-070      4635000Q004201325-0317549      09792011740060250      01408
073163H-065      4627000Q004201231-0318016      09792011740060250      01409
073163H-060      4624010Q004201136-0318280      09792011740060250      01410
073163H-055      4666020Q004201042-0317722      09792011740060250      01411
```

add 42.4 to

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add 42.4 to all in col 26-29

Do not add to 01400 card

ALLIED EGRY BUSINESS SYSTEMS, LA FORM 6416

```
073163BK11MREFERI4060000000000000000341136      09792011740060250      01500
073163G-075LINE G44000K00004201470-0322129      09792011740060250      01501
073163G-080      43950M00004201515-0321792      09792011740060250      01502
073163G-085      44920000004201609-0320183      09792011740060250      01503
073163G-090      4429000L004201704-0320889      09792011740060250      01504
073163G-095      4336010L004201799-0321909      09792011740060250      01505
073163G-100      4423020L004201894-0320632      09792011740060250      01506
073163G-105      43520K10004201988-0321455      09792011740060250      01507
073163G-110      43450N10004202083-0321594      09792011740060250      01508
073163G-115      43050P10004202178-0321989      09792011740060250      01509
073163G-120      43121-10004202272-0321646      09792011740060250      01510
073163G-125      4310000004004202367-0321540    09792011740060250      01511
073163G-130      4296000004004202462-0321575    09792011740060250      01512
073163G-135END   G4285000004004202556-0321616    09792011740060250      01513
```

add 42.4 to

add 042.4 in col 26-29

to

Do not add to 0500 card

ALLIED EGRY BUSINESS SYSTEMS, LA FORM 6416

080163BK114REFERI	406000000000000000000341136	09792011740060250	01600
080163H-050LINE	H4582000600190094 7-0318593	09792011740060250	01601
080163H-045	463400000019008 52-0318144	09792011740060250	01602
080163H-040	462500000019007 58-0318664	09792011740060250	01603
080163H-035	462501000019006 63-0318807	09792011740060250	01604
080163H-030	461602000019005 68-0318824	09792011740060250	01605
080163H-025	462100030019004 74-0318510	09792011740060250	01606
080163H-020	461401030019003 79-0318365	09792011740060250	01607
080163H-015	459402030019002 84-0318325	09792011740060250	01608
080163H-010	464700030019001 89-0317459	09792011740060250	01609
080163H-005	466700030019000 95-0317096	09792011740060250	01610
080163H-000END	H4767000300190000000315827	09792011740060250	01611
080163R-900ROAD	326400000019000000340493	09792011740060250	01612
080163R-800	321100000019000951 0341051	09792011740060250	01613
080163R-700	314900000019001890 0341677	09792011740060250	01614
080163R-600	324200000019002840 0340406	09792011740060250	01615
080163R-500	335800000019003790 0338988	09792011740060250	01616
080163R-400	333600000019004740 0339547	09792011740060250	01617
080163R-300	320600000019005680 0341474	09792011740060250	01618
080163R-200	309300000019006630 0343368	09792011740060250	01619
080163R-100END	R304500000019007850 0344817	09792011740060250	01620

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add 042.4 to value already in col 26-29

ALLIED EGRY BUSINESS SYSTEMS, LA FORM 6416

Card No

071863BK11MREFER	406000000000000000000341136	09792011740060250	01700
071863D-090LINE	D42280012046801704-0333806	09792011740060250	01701
071863D-085	41840012046801609-0334434	09792011740060250	01702
071863D-080	40840012046801515-0335487	09792011740060250	01703
071863/M075	41440012046801470-0334614	09792011740060250	01704
071863/M070	41060J12046801325-0335065	09792011740060250	01705
071863/M065	40790J12046801231-0335528	09792011740060250	01706
071863/M060	42790K12046801136-0333196	09792011740060250	01707
071863/M055	42220K12046801042-0334208	09792011740060250	01708
071763C-015LINE	C38730J0P047200284-0339668	09792011740060250	01709

nxt Pack = #18

Deck No

ok

Deck 17 no change

No change

ACCIED BUSINESS SYSTEMS, LA FORM 6416

HEINRICHS EXPLORATION COMPANY

P.O. BOX 5671, TUCSON, ARIZONA

GRAVITY CALCULATIONS — 1963 —

MINERAL HILL

AREA-080263-MH-AN 1 OF 3 — DATUM PLAN = SEA LEVEL

INSTRUMENT- WORLD-WIDE, FACTOR= 0.097920 MGAL/DIV — AVERAGE DENSITY = 2.65 GM/CC

LATITUDE CORRECTION = 1.1740 — COMBINED BOUGUER + FREE AIR CORRECTION = 0.060250 MGAL/FT

DATE	STA.	REMARK	READING	DRIFT LP.	DRIFT LN.	READ+ DRIFT CORR.	READ+ AREA NET	MILES TO BASE N+,S-	READING + LAT. CORR.	ELEVATION IN FEET	C B + F A CORRECTION	BOUGUER VALUE IN MGAL	TERR. CORR.	GRAVITY VALUE IN MGAL	GRAVITY ANOMALY IN MGAL	PERCENT DEVIATE
07/22	S-E060	REFER	410.8	0.0	0.0	410.8	410.8	.0000	40.226	3432.16	206.788	247.013	N/A	247.013	REFERENCE	
	N-W000		406.5	0.0	0.0	406.5	406.5	.0080	39.814	3441.36	207.342	247.156	N/A	247.156	.143	.058
	N-W020		407.7	0.0	0.0	407.7	407.7	.0107	39.935	3439.11	207.206	247.141	N/A	247.141	.128	.052
	N-W040		402.2	0.0	0.0	402.2	402.2	.0134	39.399	3448.04	207.744	247.144	N/A	247.144	.130	.053
	N-W060		403.4	0.0	0.0	403.4	403.4	.0161	39.520	3448.96	207.800	247.320	N/A	247.320	.306	.124
	N-W080		406.6	0.1	0.0	406.7	406.7	.0188	39.846	3444.85	207.552	247.398	N/A	247.398	.385	.156
	N-W100		417.6	0.1	0.0	417.7	417.7	.0215	40.926	3428.44	206.564	247.490	N/A	247.490	.477	.193
	N-W120		419.7	0.1	0.0	419.8	419.8	.0242	41.135	3425.37	206.379	247.514	N/A	247.514	.501	.203
	N-W140		418.1	0.2	0.0	418.3	418.3	.0268	40.991	3427.41	206.501	247.493	N/A	247.493	.480	.194
	N-W190		412.3	0.3	0.0	412.6	412.6	.0937	40.512	3436.38	207.042	247.554	N/A	247.554	.541	.219
	N-W240		426.4	0.4	0.0	426.8	426.8	.1607	41.981	3417.98	205.933	247.914	N/A	247.914	.901	.365
	N-W290		417.2	0.3	1.8	419.3	419.3	.2276	41.325	3427.98	206.536	247.861	N/A	247.861	.848	.343
	N-W340		414.4	0.7	1.8	416.9	416.9	.2946	41.169	3432.92	206.833	248.002	N/A	248.002	.989	.400
	N-W390		411.0	1.1	1.8	413.9	413.9	.3615	40.953	3442.20	207.393	248.346	N/A	248.346	1.333	.540
	N-W440		406.1	1.4	1.8	409.3	409.3	.4285	40.582	3448.92	207.797	248.379	N/A	248.379	1.366	.553
	N-W490		411.2	1.7	1.8	414.7	414.7	.4954	41.189	3447.69	207.723	248.912	N/A	248.912	1.899	.769
	E-6000		417.2	2.1	1.8	421.1	421.1	.5624	41.894	3445.21	207.574	249.468	N/A	249.468	2.455	.994
	S-E020		412.9	0.0	0.0	412.9	412.9	.0054	40.438	3431.81	206.767	247.204	N/A	247.204	.191	.077
	S-E040		407.9	0.0	0.0	407.9	407.9	.0027	39.945	3437.17	207.089	247.034	N/A	247.034	.021	.009
	S-E080		415.8	0.0	0.0	415.8	415.8	.0027	40.718	3424.16	206.306	247.024	N/A	247.024	.011	.004
	S-E100		418.6	0.0	0.0	418.6	418.6	.0054	40.996	3420.96	206.113	247.108	N/A	247.108	.095	.039
	S-E120		421.6	0.0	0.0	421.6	421.6	.0080	41.292	3416.99	205.874	247.166	N/A	247.166	.153	.062
	S-E140		425.4	0.0	0.0	425.4	425.4	.0107	41.668	3412.22	205.586	247.254	N/A	247.254	.241	.097
	S-E190		432.8	0.1	0.0	432.9	432.9	.0776	42.481	3497.87	210.747	253.227	~~N/A~~	~~253.227~~	~~6.214~~	~~2.516~~
										3397.87	204.721	247.102			.089	

ALLIED EGRY BUSINESS SYSTEMS, LA FORM 6416

AREA-080263-MH-AN 1 OF 3 DATUM PLAN = SEA LEVEL
INSTRUMENT- WORLD-WIDE, FACTOR= 0.097920 MGAL/DIV AVERAGE DENSITY = 2.65 GM/CC
LATITUDE CORRECTION = 1.1740 COMBINED BOUGUER + FREE AIR CORRECTION = 0.060250 MGAL/FT

DATE	STA.	REMARK	READING	DRIFT LP.	DRIFT LN.	READ+ DRIFT CORR.	READ+ AREA NET	MILES TO BASE N+,S-	READING + LAT. CORR.	ELEVATION IN FEET	C B + F A CORRECTION	BOUGUER VALUE IN MGAL	TERR. CORR.	GRAVITY VALUE IN MGAL	GRAVITY ANOMALY IN MGAL	PERCENT DEVIATE
07/22	S-E240		437.9	0.1	0.0	438.0	438.0	.1446	43.059	3486.83	210.082	253.140	N/A	253.140	6.127	2.480
										3386.83	204.562	247.624			0.611	

ALLIED EGRY BUSINESS SYSTEMS, LA FORM 6416

HEINRICHS EXPLORATION COMPANY
P.O. BOX 5671, TUCSON, ARIZONA

GRAVITY CALCULATIONS 1963

AREA-080263-MH-AN 2 OF 3 DATUM PLAN = SEA LEVEL
INSTRUMENT- WORLD-WIDE, FACTOR= 0.097920 MGAL/DIV AVERAGE DENSITY = 2.65 GM/CC
LATITUDE CORRECTION = 1.1740 COMBINED BOUGUER + FREE AIR CORRECTION = 0.060250 MGAL/FT

DATE	STA.	REMARK	READING	DRIFT --- LP.	DRIFT --- LN.	READ+ DRIFT CORR.	READ+ AREA NET	MILES TO BASE N+,S-	READING + LAT. CORR.	ELEVATION IN FEET	C B + F A CORRECTION	BOUGUER VALUE IN MGAL	TERR. CORR.	GRAVITY VALUE IN MGAL	GRAVITY ANOMALY IN MGAL	PERCENT DEVIATE
07/23	M-0000	REFERS	406.4	0.0	0.0	406.4	406.3	.0000	39.785	3431.16	206.727	246.512	N/A	246.512	REFERENCE	
	B-A115	NETTIE	398.0	0.0	0.0	398.0	397.9	.0000	38.962	3465.15	208.775	247.738	N/A	247.738	1.225	.497
	M-0200	S	413.6	0.0	0.0	413.6	413.5	.0378-	40.446	3421.39	206.139	246.584	N/A	246.584	.072	.029
	M-0400	S	415.0	0.0	0.0	415.0	414.9	.0757-	40.538	3419.93	206.051	246.589	N/A	246.589	.077	.031
	M-0600	S	408.0	0.0	0.0	408.0	407.9	.1136-	39.808	3430.67	206.698	246.506	N/A	246.506	.006-	.003-
	M-0800	S	405.9	0.0	0.0	405.9	405.8	.1515-	39.558	3433.72	206.882	246.440	N/A	246.440	.073-	.029-
	M-1000	S	395.7	0.0	0.0	395.7	395.6	.1893-	38.515	3448.28	207.759	246.274	N/A	246.274	.239-	.097-
	M-1200	S	395.9	0.0	0.0	395.9	395.8	.2272-	38.490	3448.91	207.797	246.287	N/A	246.287	.225-	.091-
	M-1400	S	391.2	0.1	0.0	391.3	391.2	.2651-	37.995	3458.66	208.384	246.379	N/A	246.379	.133-	.054-
	M-1900	S	376.6	0.1	0.0	376.7	376.6	.3597-	36.454	3481.26	209.746	246.200	N/A	246.200	.312-	.127-
	M-2400	S	386.7	0.1-	2.5	389.1	389.0	.4544-	37.557	3462.21	208.598	246.156	N/A	246.156	.357-	.145-
	M-2900	S	375.5	0.2-	2.5	377.8	377.7	.5490-	36.340	3477.16	209.499	245.839	N/A	245.839	.674-	.273-
	M-3400	S	388.3	0.3-	2.5	390.5	390.4	.6437-	37.472	3450.57	207.897	245.369	N/A	245.369	1.143-	.464-
	M-3900	S	389.1	0.4-	2.5	391.2	391.1	.7384-	37.430	3446.78	207.668	245.098	N/A	245.098	1.414-	.574-
(M-140)'	M-0000	N	404.3	0.0	2.1	406.4	406.3	.0000	39.785	3431.16	206.727	246.512	N/A	246.512	.000-	.000-
	M-0200	BASE N	403.2	0.1	2.1	405.4	405.3	.0378	39.731	3430.34	206.678	246.409	N/A	246.409	.103-	.042-
	M-0400	N	412.4	0.2	2.1	414.7	414.6	.0757	40.687	3416.90	205.868	246.555	N/A	246.555	.042	.017
	M-0600	N	410.3	0.3	2.1	412.7	412.6	.1136	40.535	3420.52	206.086	246.621	N/A	246.621	.109	.044
	M-0800	N	405.9	0.4	2.1	408.4	408.3	.1515	40.159	3425.63	206.394	246.553	N/A	246.553	.041	.016
	M-1000	N	414.5	0.5	2.1	417.1	417.0	.1893	41.055	3413.75	205.678	246.733	N/A	246.733	.221	.090
	M-1200	N	412.5	0.6	2.1	415.2	415.1	.2272	40.913	3416.33	205.834	246.747	N/A	246.747	.235	.095
	M-1400	N	414.3	0.7	2.1	417.1	417.0	.2651	41.144	3414.16	205.703	246.847	N/A	246.847	.335	.136
	M-1600	N	416.6	0.8	2.1	419.5	419.4	.3030	41.423	3412.50	205.603	247.026	N/A	247.026	.514	.209
	M-1800	N	417.1	1.0	2.1	420.2	420.1	.3409	41.536	3410.42	205.478	247.014	N/A	247.014	.502	.204

ALLIED EGRY BUSINESS SYSTEMS, LA FORM 6416

HEINRICHS EXPLORATION COMPANY
P.O. BOX 5671, TUCSON, ARIZONA

GRAVITY CALCULATIONS 1963

AREA-080263-MH-AN 2 OF 3 DATUM PLAN = SEA LEVEL
INSTRUMENT- WORLD-WIDE, FACTOR= 0.097920 MGAL/DIV AVERAGE DENSITY = 2.65 GM/CC
LATITUDE CORRECTION = 1.1740 COMBINED BOUGUER + FREE AIR CORRECTION = 0.060250 MGAL/FT

DATE	STA.	REMARK	READING	DRIFT --- LP.	DRIFT --- LN.	READ+ DRIFT CORR.	READ+ AREA NET	MILES TO BASE N+,S-	READING + LAT. CORR.	ELEVATION IN FEET	C B + F A CORRECTION	BOUGUER VALUE IN MGAL	TERR. CORR.	GRAVITY VALUE IN MGAL	GRAVITY ANOMALY IN MGAL	PERCENT DEVIATE
07/23	M-2300	N	421.1	0.3-	4.3	425.1	425.0	.4355	42.127	3406.52	205.243	247.370	N/A	247.370	.858	.348

ALLIED EGRY BUSINESS SYSTEMS, LA FORM 6416

HEINRICHS EXPLORATION COMPANY
P.O. BOX 5671, TUCSON, ARIZONA

GRAVITY CALCULATIONS — 1963 —

AREA-080263-MH-AN 3 OF 3 — DATUM PLAN = SEA LEVEL
INSTRUMENT- WORLD-WIDE, FACTOR= 0.097920 MGAL/DIV — AVERAGE DENSITY = 2.65 GM/CC
LATITUDE CORRECTION = 1.1740 — COMBINED BOUGUER + FREE AIR CORRECTION = 0.06250 MGAL/FT

DATE	STA.	REMARK	READING	DRIFT --- LP.	DRIFT --- LN.	READ+ DRIFT CORR.	READ+ AREA NET	MILES TO BASE N+,S-	READING + LAT. CORR.	ELEVATION IN FEET	C B + F A CORRECTION	BOUGUER VALUE IN MGAL	TERR. CORR.	GRAVITY VALUE IN MGAL	GRAVITY ANOMALY IN MGAL	PERCENT DEVIATE
07/23	M-0000 (M-101)	REFERS	406.4	0.0	0.0	406.4	406.5	.0000	39.804	3431.16	206.727	246.532	N/A	246.532	REFERENCE	
	M-2800	N	433.8	0.6	4.3	438.7	438.8	.5301	43.590	3388.85	204.178	247.768	N/A	247.768	1.236	.501
	M-3300	N	433.6	0.8-	4.3	437.1	437.2	.6247	43.544	3388.18	204.138	247.682	N/A	247.682	1.150	.466
	M-3800 (M-63)	N	437.0	1.0-	4.3	440.3	440.4	.7193	43.968	3380.48	203.674	247.642	N/A	247.642	1.110	.450
07/24	L-6000	LINE L	442.3	1.4-	4.3	445.2	444.1	.8139	44.442	3383.62	203.863	248.305	N/A	248.305	1.773	.719
	L-5500		471.0	0.0	0.0	471.0	469.9	.9085	47.079	3353.29	202.036	249.115	N/A	249.115	2.583	1.048
	L-5000		464.9	0.1-	0.0	464.8	463.7	1.0030	46.583	3362.44	202.587	249.170	N/A	249.170	2.638	1.070
	L-4500		465.5	0.1-	0.0	465.4	464.3	1.0970	46.752	3367.23	202.876	249.628	N/A	249.628	3.096	1.256
	L-4000		432.9 (Valid readings ck)	0.0	0.0	432.9	431.8	1.1920	43.681	3339.49	201.204	244.886 248.899	N/A	244.886	1.646- 2.367	.668-
	L-3500		495.1	0.0	0.0	495.1	494.0	1.2870	49.883	3326.97	200.450	250.333	N/A	250.333	3.801	1.542
	L-3000		509.3	0.0	0.0	509.3	508.2	1.3820	51.385	3305.88	199.179	250.565	N/A	250.565	4.033	1.636
	L-2500		~~414.8~~ 514.8 (error in notes)	~~0.1~~	0.0	414.9	413.8	1.4760	42.252	3297.19	198.656	240.908	N/A	~~240.908~~	~~5.624~~	~~2.281~~
8/02	L-4000		441.10	0.1		441.0 ANC.=42.0	483.0	1.1920	47.695			248.819			2.367	

HEINRICHS EXPLORATION COMPANY
P.O. BOX 5671, TUCSON, ARIZONA

GRAVITY CALCULATIONS 1963

MINERAL HILL

AREA-080263-MH-AN 1 OF 3 DATUM PLAN = SEA LEVEL
INSTRUMENT- WORLD-WIDE, FACTOR= 0.097920 MGAL/DIV AVERAGE DENSITY = 2.65 GM/CC
LATITUDE CORRECTION = 1.1740 COMBINED BOUGUER + FREE AIR CORRECTION = 0.060250 MGAL/FT

DATE	STA.	REMARK	READING	DRIFT --- LP.	DRIFT --- LN.	READ+ DRIFT CORR.	READ+ AREA NET	MILES TO BASE N+,S-	READING + LAT. CORR.	ELEVATION IN FEET	C B + F A CORRECTION	BOUGUER VALUE IN MGAL	TERR. CORR.	GRAVITY VALUE IN MGAL	GRAVITY ANOMALY IN MGAL	PERCENT DEVIATE
07/22	S-E060	REFER	410.8	0.0	0.0	410.8	410.8	.0000	40.226	3432.16	206.788	247.013	N/A	247.013	REFERENCE	
	N-W000		406.5	0.0	0.0	406.5	406.5	.0080	39.814	3441.36	207.342	247.156	N/A	247.156	.143	.058
	N-W020		407.7	0.0	0.0	407.7	407.7	.0107	39.935	3439.11	207.206	247.141	N/A	247.141	.128	.052
	N-W040		402.2	0.0	0.0	402.2	402.2	.0134	39.399	3448.04	207.744	247.144	N/A	247.144	.130	.053
	N-W060		403.4	0.0	0.0	403.4	403.4	.0161	39.520	3448.96	207.800	247.320	N/A	247.320	.306	.124
	N-W080		406.6	0.1	0.0	406.7	406.7	.0188	39.846	3444.85	207.552	247.398	N/A	247.398	.385	.156
	N-W100		417.6	0.1	0.0	417.7	417.7	.0215	40.926	3428.44	206.564	247.490	N/A	247.490	.477	.193
	N-W120		419.7	0.1	0.0	419.8	419.8	.0242	41.135	3425.37	206.379	247.514	N/A	247.514	.501	.203
	N-W140		418.1	0.2	0.0	418.3	418.3	.0268	40.991	3427.41	206.501	247.493	N/A	247.493	.480	.194
	N-W190		412.3	0.3	0.0	412.6	412.6	.0937	40.512	3436.38	207.042	247.554	N/A	247.554	.541	.219
	N-W240		426.4	0.4	0.0	426.8	426.8	.1607	41.981	3417.98	205.933	247.914	N/A	247.914	.901	.365
	N-W290		417.2	0.3	1.8	419.3	419.3	.2276	41.325	3427.98	206.536	247.861	N/A	247.861	.848	.343
	N-W340		414.4	0.7	1.8	416.9	416.9	.2946	41.169	3432.92	206.833	248.002	N/A	248.002	.989	.400
	N-W390		411.0	1.1	1.8	413.9	413.9	.3615	40.953	3442.20	207.393	248.346	N/A	248.346	1.333	.540
	N-W440		406.1	1.4	1.8	409.3	409.3	.4285	40.582	3448.92	207.797	248.379	N/A	248.379	1.366	.553
	N-W490		411.2	1.7	1.8	414.7	414.7	.4954	41.189	3447.69	207.723	248.912	N/A	248.912	1.899	.769
	E-6000		417.2	2.1	1.8	421.1	421.1	.5624	41.894	3445.21	207.574	249.468	N/A	249.468	2.455	.994
	S-E020		412.9	0.0	0.0	412.9	412.9	.0054	40.438	3431.81	206.767	247.204	N/A	247.204	.191	.077
	S-E040		407.9	0.0	0.0	407.9	407.9	.0027	39.945	3437.17	207.089	247.034	N/A	247.034	.021	.009
	S-E080		415.8	0.0	0.0	415.8	415.8	.0027	40.718	3424.16	206.306	247.024	N/A	247.024	.011	.004
	S-E100		418.6	0.0	0.0	418.6	418.6	.0054	40.996	3420.96	206.113	247.108	N/A	247.108	.095	.039
	S-E120		421.6	0.0	0.0	421.6	421.6	.0080	41.292	3416.99	205.874	247.166	N/A	247.166	.153	.062
	S-E140		425.4	0.0	0.0	425.4	425.4	.0107	41.668	3412.22	205.586	247.254	N/A	247.254	.241	.097
	S-E190		432.8	0.1	0.0	432.9	432.9	.0776	42.481	3497.87	210.747	253.227	N/A	~~253.227~~	~~6.214~~	~~2.516~~
										3397.87	204.721	247.102			.089	

ALLIED EGRY BUSINESS SYSTEMS, LA FORM 6416

HEINRICHS EXPLORATION COMPANY

P.O. BOX 5671, TUCSON, ARIZONA

GRAVITY CALCULATIONS 1963

AREA-080263-MH-AN 1 OF 3 DATUM PLAN = SEA LEVEL

INSTRUMENT- WORLD-WIDE, FACTOR= 0.097920 MGAL/DIV AVERAGE DENSITY = 2.65 GM/CC

LATITUDE CORRECTION = 1.1740 COMBINED BOUGUER + FREE AIR CORRECTION = 0.060250 MGAL/FT

DATE	STA.	REMARK	READING	DRIFT --- LP.	DRIFT --- LN.	READ+ DRIFT CORR.	READ+ AREA NET	MILES TO BASE N+,S-	READING + LAT. CORR.	ELEVATION IN FEET	C B + F A CORRECTION	BOUGUER VALUE IN MGAL	TERR. CORR.	GRAVITY VALUE IN MGAL	GRAVITY ANOMALY IN MGAL	PERCENT DEVIATE
07/22	S-E240		437.9	0.1	0.0	438.0	438.0	.1446	43.059	3486.83	210.082	253.140	N/A	253.140	6.127	2.480
										3386.83	204.565	247.624			0.611	

ALLIED EGRY BUSINESS SYSTEMS, LA FORM 6416

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HEINRICHS EXPLORATION COMPANY
P.O. BOX 5671, TUCSON, ARIZONA

GRAVITY CALCULATIONS — 1963 —

AREA-080263-MH-AN 2 OF 3 — DATUM PLAN = SEA LEVEL
INSTRUMENT- WORLD-WIDE, FACTOR= 0.097920 MGAL/DIV — AVERAGE DENSITY = 2.65 GM/CC
LATITUDE CORRECTION = 1.1740 — COMBINED BOUGUER + FREE AIR CORRECTION = C.C60250 MGAL/FT

DATE	STA.	REMARK	READING	DRIFT LP.	DRIFT LN.	READ+ DRIFT CORR.	READ+ AREA NET	MILES TO BASE N+,S-	READING + LAT. CORR.	ELEVATION IN FEET	C B + F A CORRECTION	BOUGUER VALUE IN MGAL	TERR. CORR.	GRAVITY VALUE IN MGAL	GRAVITY ANOMALY IN MGAL	PERCENT DEVIATE
07/23	M-0000	REFERS	406.4	0.0	0.0	406.4	406.3	.0000	39.785	3431.16	206.727	246.512	N/A	246.512	REFERENCE	
	B-A115	NETTIE	398.0	0.0	0.0	398.0	397.9	.0000	38.962	3465.15	208.775	247.738	N/A	247.738	1.225	.497
	M-0200	S	413.6	0.0	0.0	413.6	413.5	.0378-	40.446	3421.39	206.139	246.584	N/A	246.584	.072	.029
	M-0400	S	415.0	0.0	0.0	415.0	414.9	.0757-	40.538	3419.93	206.051	246.589	N/A	246.589	.077	.031
	M-0600	S	408.0	0.0	0.0	408.0	407.9	.1136-	39.808	3430.67	206.698	246.506	N/A	246.506	.006-	.003-
	M-0800	S	405.9	0.0	0.0	405.9	405.8	.1515-	39.558	3433.72	206.882	246.440	N/A	246.440	.073-	.029-
	M-1000	S	395.7	0.0	0.0	395.7	395.6	.1893-	38.515	3448.28	207.759	246.274	N/A	246.274	.239-	.097-
	M-1200	S	395.9	0.0	0.0	395.9	395.8	.2272-	38.490	3448.91	207.797	246.287	N/A	246.287	.225-	.091-
	M-1400	S	391.2	0.1	0.0	391.3	391.2	.2651-	37.995	3458.66	208.384	246.379	N/A	246.379	.133-	.054-
	M-1900	S	376.6	0.1	0.0	376.7	376.6	.3597-	36.454	3481.26	209.746	246.200	N/A	246.200	.312-	.127-
	M-2400	S	386.7	0.1-	2.5	389.1	389.0	.4544-	37.557	3462.21	208.598	246.156	N/A	246.156	.357-	.145-
	M-2900	S	375.5	0.2-	2.5	377.8	377.7	.5490-	36.340	3477.16	209.499	245.839	N/A	245.839	.674-	.273-
	M-3400	S	388.3	0.3-	2.5	390.5	390.4	.6437-	37.472	3450.57	207.897	245.369	N/A	245.369	1.143-	.464-
	M-3900	S	389.1	0.4-	2.5	391.2	391.1	.7384-	37.430	3446.78	207.668	245.098	N/A	245.098	1.414-	.574-
	(M-110)3 M-0000	N	404.3	0.0	2.1	406.4	406.3	.0000	39.785	3431.16	206.727	246.512	N/A	246.512	.000-	.000-
	M-0200	BASE N	403.2	0.1	2.1	405.4	405.3	.0378	39.731	3430.34	206.678	246.409	N/A	246.409	.103-	.042-
	M-0400	N	412.4	0.2	2.1	414.7	414.6	.0757	40.687	3416.90	205.868	246.555	N/A	246.555	.042	.017
	M-0600	N	410.3	0.3	2.1	412.7	412.6	.1136	40.535	3420.52	206.086	246.621	N/A	246.621	.109	.044
	M-0800	N	405.9	0.4	2.1	408.4	408.3	.1515	40.159	3425.63	206.394	246.553	N/A	246.553	.041	.016
	M-1000	N	414.5	0.5	2.1	417.1	417.0	.1893	41.055	3413.75	205.678	246.733	N/A	246.733	.221	.090
	M-1200	N	412.5	0.6	2.1	415.2	415.1	.2272	40.913	3416.33	205.834	246.747	N/A	246.747	.235	.095
	M-1400	N	414.3	0.7	2.1	417.1	417.0	.2651	41.144	3414.16	205.703	246.847	N/A	246.847	.335	.136
	M-1600	N	416.6	0.8	2.1	419.5	419.4	.3030	41.423	3412.50	205.603	247.026	N/A	247.026	.514	.209
	M-1800	N	417.1	1.0	2.1	420.2	420.1	.3409	41.536	3410.42	205.478	247.014	N/A	247.014	.502	.204

ALLIED EGRY BUSINESS SYSTEMS, LA FORM 6416

HEINRICHS EXPLORATION COMPANY

P.O. BOX 5671, TUCSON, ARIZONA

GRAVITY CALCULATIONS 1963

AREA-080263-MH-AN 2 OF 3 DATUM PLAN = SEA LEVEL

INSTRUMENT- WORLD-WIDE, FACTOR= 0.097920 MGAL/DIV AVERAGE DENSITY = 2.65 GM/CC

LATITUDE CORRECTION = 1.1740 COMBINED BOUGUER + FREE AIR CORRECTION = 0.060250 MGAL/FT

DATE	STA.	REMARK	READING	DRIFT LP.	DRIFT LN.	READ+ DRIFT CORR.	READ+ AREA NET	MILES TO BASE N+,S-	READING + LAT. CORR.	ELEVATION IN FEET	C B + F A CORRECTION	BOUGUER VALUE IN MGAL	TERR. CORR.	GRAVITY VALUE IN MGAL	GRAVITY ANOMALY IN MGAL	PERCENT DEVIATE
07/23	M-2300 N		421.1	0.3-	4.3	425.1	425.0	.4355	42.127	3406.52	205.243	247.370	N/A	247.370	.858	.348

ALLIED EGRY BUSINESS SYSTEMS, LA FORM 6416.

3805

HEINRICHS EXPLORATION COMPANY

P.O. BOX 5671, TUCSON, ARIZONA

GRAVITY CALCULATIONS — 1963 —

AREA-080263-MH-AN 3 OF 3 — DATUM PLAN = SEA LEVEL
INSTRUMENT- WORLD-WIDE, FACTOR= 0.097920 MGAL/DIV — AVERAGE DENSITY = 2.65 GM/CC
LATITUDE CORRECTION = 1.1740 — COMBINED BOUGUER + FREE AIR CORRECTION = 0.060250 MGAL/FT

DATE	STA.	REMARK	READING	DRIFT --- LP.	DRIFT --- LN.	READ+ DRIFT CORR.	READ+ AREA NET	MILES TO BASE N+,S-	READING + LAT. CORR.	ELEVATION IN FEET	C B + F A CORRECTION	BOUGUER VALUE IN MGAL	TERR. CORR.	GRAVITY VALUE IN MGAL	GRAVITY ANOMALY IN MGAL	PERCENT DEVIATE
07/23	M-0000	REFERS	406.4	0.0	0.0	406.4	406.5	.0000	39.804	3431.16	206.727	246.532	N/A	246.532	REFERENCE	
	(M-101)															
	M-2800	N	433.8	0.6	4.3	438.7	438.8	.5301	43.590	3388.85	204.178	247.768	N/A	247.768	1.236	.501
	M-3300	N	433.6	0.8-	4.3	437.1	437.2	.6247	43.544	3388.18	204.138	247.682	N/A	247.682	1.150	.466
	M-3800	N	437.0	1.0-	4.3	440.3	440.4	.7193	43.968	3380.48	203.674	247.642	N/A	247.642	1.110	.450
	(M-63)															
07/24	L-6000	LINE L	442.3	1.4-	4.3	445.2	444.1	.8139	44.442	3383.62	203.863	248.305	N/A	248.305	1.773	.719
	L-5500		471.0	0.0	0.0	471.0	469.9	.9085	47.079	3353.29	202.036	249.115	N/A	249.115	2.583	1.048
	L-5000		464.9	0.1-	0.0	464.8	463.7	1.0030	46.583	3362.44	202.587	249.170	N/A	249.170	2.638	1.070
	L-4500		465.5	0.1-	0.0	465.4	464.3	1.0970	46.752	3367.23	202.876	249.628	N/A	249.628	3.096	1.256
	L-4000		432.9	0.0	0.0	432.9	431.8	1.1920	43.681	3339.49	201.204	244.886	N/A	244.886	1.646-	.668-
			(Valid - Reading ck)									286.899			2.367	
	L-3500		495.1	0.0	0.0	495.1	494.0	1.2870	49.883	3326.97	200.450	250.333	N/A	250.333	3.801	1.542
	L-3000		509.3	0.0	0.0	509.3	508.2	1.3820	51.385	3305.88	199.179	250.565	N/A	250.565	4.033	1.636
	L-2500		~~414.8~~ 514.8 (error in notes)	0.1	0.0	414.9 514.9	413.8 513.8	1.4760	42.252 52.044	3297.19	198.656	240.908 250.700	N/A	~~240.968~~ 250.700	~~5.624~~ 4.168	~~2.281~~
							4830	1.1920	47.695			248.819			2.367	
8/02	L-4000		441.100	0.1		441.0										
						ANC = 420										

3000W 2000W 1000W 0 1000E 2000E 3000E 4000E 5000E 6000E 7000E 8000E 9000E

1800ft
1600ft
1400ft
1200ft
1000ft
800ft
600ft

Twin Buttes Rd.
Helmet Peak Ridge
To 100ft

LINE 18

2000ft
1800ft
1600ft
1400ft
1200ft
1000ft
800ft
600ft

Twin Buttes Rd.
Helmet Peak Ridge

LINE 19

1800ft
1600ft
1400ft
1200ft
1000ft
800ft
600ft

Twin Buttes Rd.
Helmet Peak Ridge

LINE 20

1800ft
1600ft
1400ft
1200ft
1000ft
800ft
600ft

Twin Buttes Rd.
Southern Tip of Helmet Peak

LINE 21

1000ft
800ft
600ft
400ft

Twin Buttes Rd.

LINE 22

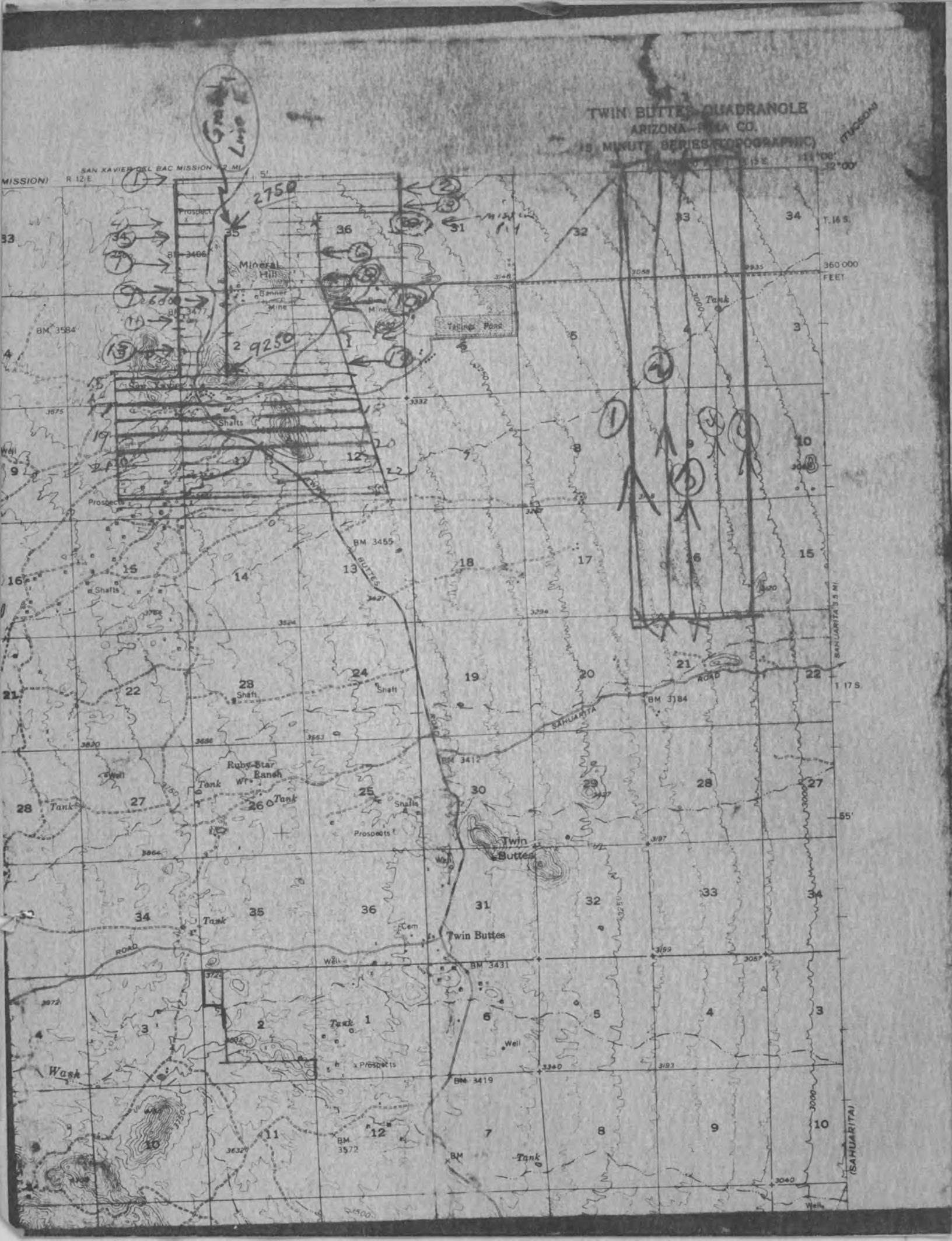
All Profiles looking North

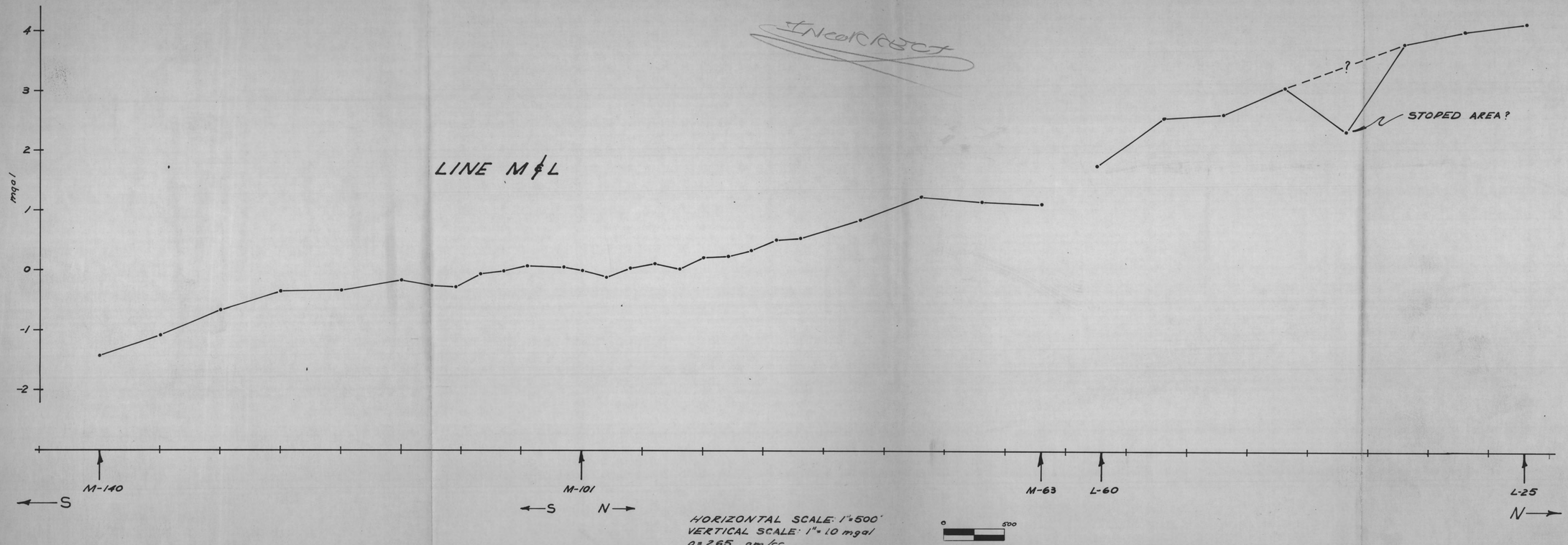
N

MAGNETIC PROFILES
18 thru 22 inclusive
MINERAL HILL AREA
PIMA COUNTY, ARIZONA
for
THE ANACONDA COMPANY
by
HEINRICHS GEOEXPLORATION COMPANY
Hor. Scale: 1" = 500 feet
Vert. Scale: 1" = 200 gammas
March 1963

MAP No. 4

KE STANDARD ® 10 X 10 TO THE INCH


TWIN BUTTES QUADRANGLE
ARIZONA—PIMA CO.
15 MINUTE SERIES (TOPOGRAPHIC)
(TUCSON)
SAN XAVIER DEL BAC MISSION 12 MI.
(MISSION)
R 12 E
T. 16 S.
T 17 S.
360 000 FEET
Grant Line
2750
9250
Mineral Hill
Banner Mine
Tailing Pond
Tank
Shafts
Prospects
BM 3584
BM 3455
BM 3412
BM 3431
BM 3419
BM 3572
BM 3184
Ruby Star Ranch
Twin Buttes
Cem
Well
Wash
ROAD
SAHUARITA
SAHUARITA 3.5 MI.
(SAHUARITA)



GRAVITY PROFILE
MINERAL HILL AREA
SEC. 1 & 12 · T17S. R12E.
PIMA COUNTY, ARIZONA
FOR
THE ANACONDA CO.
BY
HEINRICHS GEOEXPLORATION CO.
AUGUST 1963

GRAVITY INVESTIGATIONS

FOR

THE ANACONDA COMPANY ——— Pima Mining Dist Pima Co. Arizona

HEINRICHS GEOEXPLORATION COMPANY

W. W. CAREY, PROJECT GEOPHYSICIST

INTRODUCTION

The area of gravity investigation is located about 30 miles south of Tucson, Arizona on the eastern flank of the Sierrita Mountains. This report discusses the method of investigation and the proceedure involved in the calculation of three detailed gravity surveys run in this area for the Anaconda Company. (The readings from the W. W. gravimeter used in this project were ———

CALCULATIONS

When working such a precise instrument as the World-Wide Gravity Meter which is capable of measuring the relative acceleration of gravity to better than 1×10^{-4} cm/sec^2, the gravity meter readings must be corrected for station elevation, density of the surface material, latitude, and in some instances, the surrounding topography. In this report topographic conditions have not been considered in the calculations but for precise interpretation certain stations within the Twin Buttes and Mineral Hill areas may warrant topographic consideration, generally these stations are located upon the exposed bedrock complex

The various quantitative factors used in the gravity calculations

consist of a latitude correction factor derived for 32° north latitude and a correction of 1.174 milligals per ~~meter~~ mile from a chosen zero point. A combined ~~Boagner~~ Bouguer and free air correction of 0.06025 milligals per foot ~~above the datum plan was used. (The combined Boagner and free air factor~~ of elevation which takes into account the station elevation and the density of the surface material. In the gravity computation the assigned density of the surface material is very influential and when varied, greatly effects the final gravity value. ~~which affects the gravity anomaly.~~ In this case, a density of 2.65 gm/cc representing the density of the bedrock complex, was ~~been~~ used, ~~in calculating the gravity stations of all areas involved.~~

Because of the geologic or bedrock exposure conditions present within the designated areas a density of 2.65 gm/cc is not as applicable to numerous stations within these areas and for a qualitative interpretation of the gravity values these stations probably should be recalculated using at least three, possibly four, different density values. Due to the complexity of gravity calulations this qualitative approach is ~~seldom done~~ sometimes avoided because of the additional cost and time involved. At present "Geoex" has the facilities of an IBM 1410 digital computer which has been program(m)ed to receive and calculate

the gravity stations allowing for different values of density and may be computed on any base within the area. The use of this type of data processing allows for fast and comparatively inexpensive gravity determinations which leads to better qualitative interpretations of the data.

AREA DESCRIPTIONS

Gravity surveys have been conducted over three areas on the eastern flank of the Sierrita Mountains. The areas consist of the Helmet Peak Area, the Mineral Hill Area and the Twin Buttes Area, all are located within 5 miles of each other.

Helmet Peak Area:

The Helmet Peak Area consists of six North-South lines totaling 18 miles. The line spacing is 1500 feet with a station separation of 500 feet. Specifically the Helmet Peak Area lies within sections 4, 5, 8, 9 and 16 of T 17 S and Section 33 of T 16 S, all in R 13 E. Two hundred fifteen gravity stations were included in this survey.

Twin Buttes Area:

The Twin Buttes Area consists of nine North-South lines totaling 21 miles. The line spacing varies from 2000 feet to 1500 feet with a station separation of 500 feet. Specifically the Twin Buttes area lies within sections 31, 32, and 33 of T 17 S and sections 4, 5, 7 and 8 of T 18 S, all in R 13 E.

T. B. A cont'd

Two hundred Twenty five gravity stations were included 4 in this survey.

Mineral Hill Area:

The Mineral Hill Area consists of two lines, one north-south and the other N 45° W, totaling 19000 feet. The station separation varied from 200 feet to 500 feet radiating outward from the point of intersection of the two lines. Specifically the Mineral Hill Area lies within sections 1, 2, and 12 of T 17 S, R 12 E. Sixty gravity stations were included in this survey. On the north-south profile, station L-40 appears to be in error, considering the general trend of the profile. Six days after the original gravity value was determined the station was redetermined and the two values repeated. A filled stope has been reported to be in the vicinity of this gravity station which would explain the divergence in the gravity values. An additional profile of 100 foot or possibly 50 foot station Separation is recommended between station L-45 and L-35 as a further check.

LEGEND

ANNER MINING CO. BY OPTION OR OTHERWISE—

GROUP

GROUP

GROUP

UP

ICAL CO.

CO.

Scale 1"=1000'

RANGE 12 EAST
RANGE 13 EAST

COPPER PRINCE

JAMES G. BLAINE

GARFIELD

MARY GROUP 4

CATHERINE 3

CATHERINE 4

MCKINLEY COPPER

ADMIRAL DEWEY

VIRGINIUS

FLORENCE

HOBSON COPPER

COPPER HILL

COPPER HILL 2

POLORES ANN

REPUBLIC 23

REP. 24

REPUBLIC 22

REPUBLIC 21

REPUBLIC 20

REPUBLIC 19

REPUBLIC 18

REPUBLIC 17

REPUBLIC 16

REPUBLIC 15

REPUBLIC 14

REPUBLIC 13

REPUBLIC 12

REPUBLIC 11

REPUBLIC 10

REPUBLIC 9

REPUBLIC 8

REPUBLIC 4

REPUBLIC 3

REPUBLIC 2

REPUBLIC 1

REPUBLIC 5

REPUBLIC 6

REPUBLIC 7

PETRO 1

PETRO 2

PETRO 3

PETRO 4

PETRO 5

PETRO 6

PETRO 7

PETRO 8

PETRO 9

PETRO 10

PETRO 11

PETRO 12

PETRO 13

PETRO 14

PETRO 15

PETRO 16

PETRO 17

PETRO 18

PETRO 19

PETRO 20

PETRO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

TWIN BUTTES QUADRANGLE
ARIZONA—PIMA CO.
15 MINUTE SERIES (TOPOGRAPHIC)

(COCORAQUE BUTTE) (TUCSON) (SAN XAVIER MISSION) (PALO ALTO RANCH) (ISAHUARITA) (ARIVACA) (TUBAC) (MT. WRIGHTSON)

111°15' 32°00' 111°00' 31°45'

477000m E. 783000 FEET

3540000m N. 280 000 FEET 360 000 FEET 3513000m N. 499000m E. 710 000 FEET

R. 11 E. R. 12 E. R. 13 E.

T. 16 S. T. 17 S. T. 18 S. T. 19 S.

10' 5' 55' 50'

Pino Blanco Ranch
Gunsight Mtn
Gunsight Ranch
Soto Peak
La Cañada Ranch
Samaniego Peak
Fresnal Canyon
Water Tank
Res
McGee Ranch
Cem
Ash Creek Canyon
Placer Peak
Keystone Peak
Tascuela Canyon
White Iron Canyon
Ritchey Peak
Red Boy Peak
Spring
Harris Ranch
Horse Pasture Hill
Ox Frame Canyon
Lobo Peak
Champurrado Wash
Tinaja Peak
Batamote
Batamote Ranch
Batamote Wash
Prosper Wash
Tinaja Ranch
Ruby-Star Ranch
San Xavier
Mineral Hill
Banner Mine
Pima Mine
Tailings Pond
Helmet Peak
Twin Buttes
Demetrie Wash
Esperanza Wash
Canoa Ranch
Kinsley
Tank
Well
Shaft
Shafts
Prospect
Prospects
Adit
Cem
Dwgs
Ruins
WT
Water Tanks
Water Tank
Tanks
Dural Mines
USMM 1
Duval Mine
BM 3723
BM 3741
BM 3835
BM 4122
BM 4113
BM 3406
BM 3477
BM 3584
BM 3455
BM 3184
BM 3412
BM 3431
BM 3419
BM 3572
BM 3327
BM 3319
BM 3256
BM 3134
BM 3032
BM 3703
BM 3777
BM 3847
BM 3844
BM 3743
BM 3637
BM 3526
BM 3521
BM 2937
BM 2967
BM 2970
BM 2990
Trail
Jeep Trail
Pipeline
Twin Buttes Road
Sahuarita Road
McGee Road
Nogales Highway
Southern Pacific
Santa Cruz River
La Canoa
Sahuarita 9.5 mi.
Tucson 27 mi.
Amado 2.2 mi.
Nogales 31 mi.
San Xavier-Del Bac Mission 7.2 mi.

GRAVITY
E F G H
110400
135400 135400

Mapped, edited, and published by the Geological Survey

Control by USGS, USC&GS, and USCE

Topography by planetable surveys 1938–39
Culture revision and field check 1957

Polyconic projection. 1927 North American datum
10,000-foot grid based on Arizona coordinate system, central zone
1000-meter Universal Transverse Mercator grid ticks, zone 12, shown in blue

SCALE 1:62500

1 0 1 2 3 4 MILES
3000 0 3000 6000 9000 12000 15000 18000 21000 FEET
1 .5 0 1 2 3 4 5 KILOMETERS

CONTOUR INTERVAL 50 FEET
DATUM IS MEAN SEA LEVEL

13°
TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION, 1957

ROAD CLASSIFICATION
Heavy-duty — Light-duty
Unimproved dirt
U. S. Route — State Route

ARIZONA
QUADRANGLE LOCATION

TWIN BUTTES, ARIZ
N3145—W11100/15

1957

INTERIOR-GEOLOGICAL SURVEY, WASHINGTON, D.C.-1961
MR 4961

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A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

INDEX MAP

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

TWIN BUTTES QUADRANGLE
ARIZONA—PIMA CO.
15 MINUTE SERIES (TOPOGRAPHIC)

(COCORAQUE BUTTE) (TUCSON) (PALO ALTO RANCH) (PATAGONIA) 1:125 000) (ARIVACA) (TUBAC) (PATAGONIA) 1:125 000)

Mapped, edited, and published by the Geological Survey

Control by USGS, USC&GS, and USCE

Topography by planetable surveys 1938–39
Culture revision and field check 1957

Polyconic projection. 1927 North American datum
10,000-foot grid based on Arizona coordinate system, central zone
1000-meter Universal Transverse Mercator grid ticks, zone 12, shown in blue

SCALE 1:62500

1 0 1 2 3 4 MILES

3000 0 3000 6000 9000 12000 15000 18000 21000 FEET

1 .5 0 1 2 3 4 5 KILOMETERS

CONTOUR INTERVAL 50 FEET
DATUM IS MEAN SEA LEVEL

APPROXIMATE MEAN DECLINATION, 1957

ROAD CLASSIFICATION

Heavy-duty — Light-duty — Unimproved dirt

U.S. Route — State Route

ARIZONA

QUADRANGLE LOCATION

TWIN BUTTES, ARIZ.
N3145—W11100/15

1957

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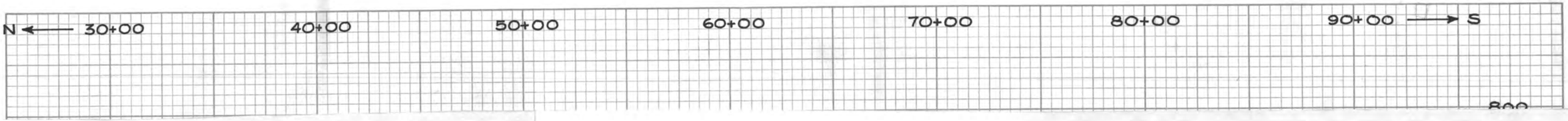
INTERIOR-GEOLOGICAL SURVEY, WASHINGTON, D.C.-1958
MR 2385


N
30+00
40+00
50+00
60+00
70+00
80+00
90+00
S