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(1)

8/24/66

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VERTICAL INTENSITY MAGNETIC SURVEY FOR ALBERT C THOMAS LIBERTY CLAIM COCHISE, ARIZONA

JALANDER #3792

FRED HEINRICH

MIKE FITZ

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(2)

STA	TIME	POL	RANG
B1	2:34	+	1
B1	3:25	+	1
25N	3:25		
50N	3:26		
75N	3:27		
100N	3:29		
125N	3:30		
150N	3:31		
175N	3:32		
200N	3:33		
B1	3:39		

(3) A. Thomas
8/24/66

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

Read	X	RC	Drift	Remarks
109	1090			
109	1090			
107	1070			
114	1140			
115	1150			
120	1200			
120	1200			
123	1230			
114	1140			
106	1060			
109	1090			

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St #	Time	Pol	Range
B1	8:42		
Line1	Traverse	North	
0+00 N	9:00		
0+25 N	9:02		
0+50 N	9:04		
0+75 N	9:05		
1+00 N	9:05		
1+25 N	9:06		
1+50 N	9:07		
1+75 N	9:09		
2+00 N	9:10		
2+25 N	9:14		
2+50 N	9:15		
2+75 N	9:15		
3+00 N	9:22		
3+25 N	9:23		
3+50 N	9:24		
3+75 N	9:24		
4+00 N	9:35		
4+25 N	9:29		
4+50 N	9:30		
4+75 N	9:31		
5+00 N	9:32		
		100 ft east 5+00 L1	
Line 2	Traverse	South	
0+00 S	9:50		
0+25 S	9:50		

(5)

A. Thomas
8/25/66

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Read	X	BC	Final Dist	Remarks
110	1100		1100	
108	1080		1080	
107	1070		1070	
114	1140		1140	
111	1110		1110	
108	1080		1080	
110	1100		1100	
102	1020		1020	
102	1020		1020	
101	1010		1010	Road
101	1010		1010	
75	750		750	Stream Bed
114	1140		1140	
109	1090		1090	
116	1160		1160	
115	1150		1150	
113	1130		1130	
117	1170		1170	
118	1180		1180	
115	1150		1150	
111	1110		1110	
111	1110		1110	
103	1030		1030	
111	1110		1110	

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S/A	Time	PoC	Range
0+50 E	9:50		
0+75 E	9:51		
1+00 E	9:52		
1+25 E	9:55		
1+50 E	9:57		
1+75 E	9:59		
2+00 E	9:59		
2+25 E	10:03		
2+50 E	10:04		
2+75 E	10:05		
3+00 E	10:05		
3+25 E	10:15		
3+50 E	10:16		
3+75 E	10:17		
4+00 E	10:18		
BL	10:20		

200 ft E A+00 L2

Line 3 Traverse North

0+00 N	11:17		
1+25 N	11:18		
1+50 N	11:18		
1+75 N	11:19		
2+00 N	11:20		
2+25 N	11:24		
2+50 N	11:24		
2+75 N	11:25		
3+00 N	11:26		
3+25 N	11:30		
3+50 N	11:31		

A Thomas
8/25/66

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7

Real	J	BC	Print	Remarks
109	1090		1090	
105	1050		1050	
107	1070		1070	
112	1120		1120	
104	1040		1040	25 ft West of Prospect pit
102	1020		1020	
100	1000		1000	
88	880		880	
100	1000		1000	
102	1020		1020	
99	990		990	stream Bed
102	1020		1020	
102	1020		1020	
111	1110		1110	
109	1090		1090	
110	1100		1100	
106	1060		1060	
112	1120		1120	stream Bed
114	1140		1140	
103	1030		1030	
111	1110		1110	
112	1120		1120	
109	1090		1090	
111	1110		1110	
102	1020		1020	
102	1020		1020	
106	1060		1060	
109	1090		1090	

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STA	TIME	POC	Range
3+75N	11:32		
4+00N	11:33		
4+25N	11:36		
4+50N	11:37		
4+75N	11:38		
5+00N	11:39		
5+25N	11:46		
5+50N	11:47		
5+75N	11:48		
6+00N			
		200' East	6400 L3
Line 4 Traverse South			
0+00S	12:12		
0+25S	12:13		
0+50S	12:14		
0+75S	12:15		
1+00S	12:16		
1+25S	12:22		
1+50S	12:23		
1+75S	12:24		
2+00S	12:25		
2+25S	12:35		
2+50S	12:36		
2+75S	12:37		
3+00S	12:38		
3+25S	12:45		
3+50S	12:47		
3+75S	12:48		
4+00S	12:49		

(9)

A Thomas
8/25/66

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Read	&	BC	Drift	Remarks
107	1070		1070	
109	1090		1090	
112	1120		1120	
115	1150		1150	
113	1130		1130	
112	1120		1120	
111	1110		1110	
113	1130		1130	
108	1080		1080	
106	1060		1060	
111				
111	1110		1100	
109	1090		1080	
114	1140		1130	
112	1120		1110	
106	1060		1050	
106	1060		1050	
109	1090		1080	
109	1090		1080	
103	1030		1020	
104	1040		1030	
100	1000		990	
109	1090		1080	
105	1050		1040	
106	1060		1050	
108	1080		1070	
126	1260		1250	
115	1150		1140	

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	STA	TIME	P&L	Comp
4	+25 S	12:52		
4	+50 S	12:53		
4	+25 S	12:54		
5	+00 S	12:55		
	B1	2:23	200 ft EAst 5+00 L4	
	Line 5	TRAVERSE North		
0	+00 N	2:33		
0	+25 N	2:36		
0	+50 N	2:38		
0	+75 N	2:39		
1	+00 N	2:40		
1	+25 N	2:55		
1	+50 N	2:56		
1	+75 N	2:57		
2	+00 N	2:58		
2	+25 N	3:04		
2	+50 N	3:04		
2	+75 N	3:05		
3	+00 N	3:05		
3	+25 N	3:31		
3	+50 N	3:32		
3	+75 N	3:33		
4	+00 N	3:36		
4	+25 N	3:41		
4	+50 N	3:42		
4	+75 N	3:45		
5	+00 N	3:45		
5	+25 N	3:50		
5	+50 N	3:51		

(41)

A. Thomas
8/25/66

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Read	2	BC	Drift	Remarks
111	1110		1100	
102	1020		1010	
101	1010		1000	
101	1010		1000	
111	1110		1100	
112	1120		1100	
113	1130		1110	
114	1140		1120	Portal 50 ft from Mine
108	1080		1060	
106	1060		1040	
110	1100		1080	
104	1040		1020	
108	1080		1060	
112	1120		1100	
104	1040		1020	
114	1140		1120	
114	1140		1120	
107	1070		1050	Mine Shaft
118	1180		1160	
116	1160		1140	
125	1250		1230	
109	1090		1070	
111	1110		1080	
116	1160		1130	
132	1320		1290	
120	1200		1170	
126	1260		1230	
107	1070		1040	

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	STA	TIME	POC	Range
5	+75N	3:52		
6	+00N	3:53		
6	+25N			
6	+50N			
6	+75N			
7	+00N			
[illegible]	[illegible]		200ft east 6+00 L 5	
[illegible]	Line 6	Traverse South		
0	+00S	4:07		
0	+25S	4:08		
0	+50S	4:09		
0	+75S	4:10		
1	+00S	4:10		
1	+25S	4:15		
1	+50S	4:16		
1	+75S	4:17		
2	+00S	4:18		
2	+25S	4:28		
2	+50S	4:29		
2	+75S	4:30		
3	+00S	4:35		
3	+25S	4:45		
3	+50S	4:46		
3	+75S	4:47		
4	+00S	4:48		
4	+25S	4:58		
4	+50S	4:59		
4	+75S	4:59		
5	+00S	5:00		

13

A Thomas
8/25/66

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Read	γ	BC	Drift	Remarks
120	1200		1170	
124	1240		1210	
114	1140		1110	
112	1120		1090	
111	1110		1080	
109	1090		1060	
114	1140		1110	
110	1100		1070	
111	1100		1070	
109	1090		1060	
116	1160		1130	
112	1120		1090	
109	1090		1060	
106	1060		1020	
106	1060		1020	
110	1100		1060	
121	1210		1170	
107	1070		1030	
110	1100		1060	
112	1120		1080	
104	1040		1000	
107	1070		1030	
106	1060		990	
99	990		950	
104	1040		1000	
101	1010		970	
102	1020		980	

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	S+A	Time	PoL	Range
5	+25 S	5:09		
5	+50 S	5:10		
5	+25 S	5:11		
6	+00 S	5:12		
	BI	5:26		
	LI			

(15)

A Thomas
5/25/66

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Read ↓		BC	Drift	Remarks
103	1030		990	
99	940		950	
98	980		940	
94	940		900	
114	1140		1100	

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T6

STA	TIME	PoC	Range
B1	9:55		

200 ft east of 00 L6

Line 7 Transverse North

0	+00N	10:15
0	+25N	10:17
0	+50N	10:18
0	+75N	10:19
1	+00N	10:20
1	+25N	10:23
1	+50N	10:25
1	+75N	10:25
2	+00N	10:26
2	+25N	10:31
2	+50N	10:32
2	+75N	10:34
3	+00N	10:35
3	+25N	10:39
3	+50N	10:40
3	+75N	10:43
4	+00N	10:44
4	+25N	10:50
4	+50N	10:51
4	+75N	10:52
5	+00N	10:53
5	+25N	10:54
5	+50N	11:00
5	+75N	11:01
6	+00N	11:03
	B1	11:11

(17)

A Thomas
8/26/66

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Read	↓	BC	Draft	Remarks
118	1180	1100	1100	
89	890	810	820	
89	890	810	820	
91	910	830	840	
93	930	850	870	
96	960	880	900	
97	970	890	910	
99	990	910	940	
105	1050	970	1000	
102	1020	940	970	
106	1060	980	1020	
108	1080	1000	1040	
106	1060	980	1020	
105	1050	970	1020	
112	1120	1040	1090	
111	1110	1030	1080	
109	1090	1010	1070	
104	1040	960	1020	
105	1050	970	1030	
108	1080	1000	1070	
107	1070	990	1060	
106	1060	980	1050	
112	1120	1040	1020	
99	990	910	990	
111	1110	1030	1110	
114	1140	1060	1150	
109	1090	1010	1100	

(END)

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Client

Proj.

Area

DATE

Operator

Helper

Sample

MAG Notes

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Pg. #

	STA	TIME	POL	RANGE

Pg. No

Read	B.C	Final Drift	Remarks

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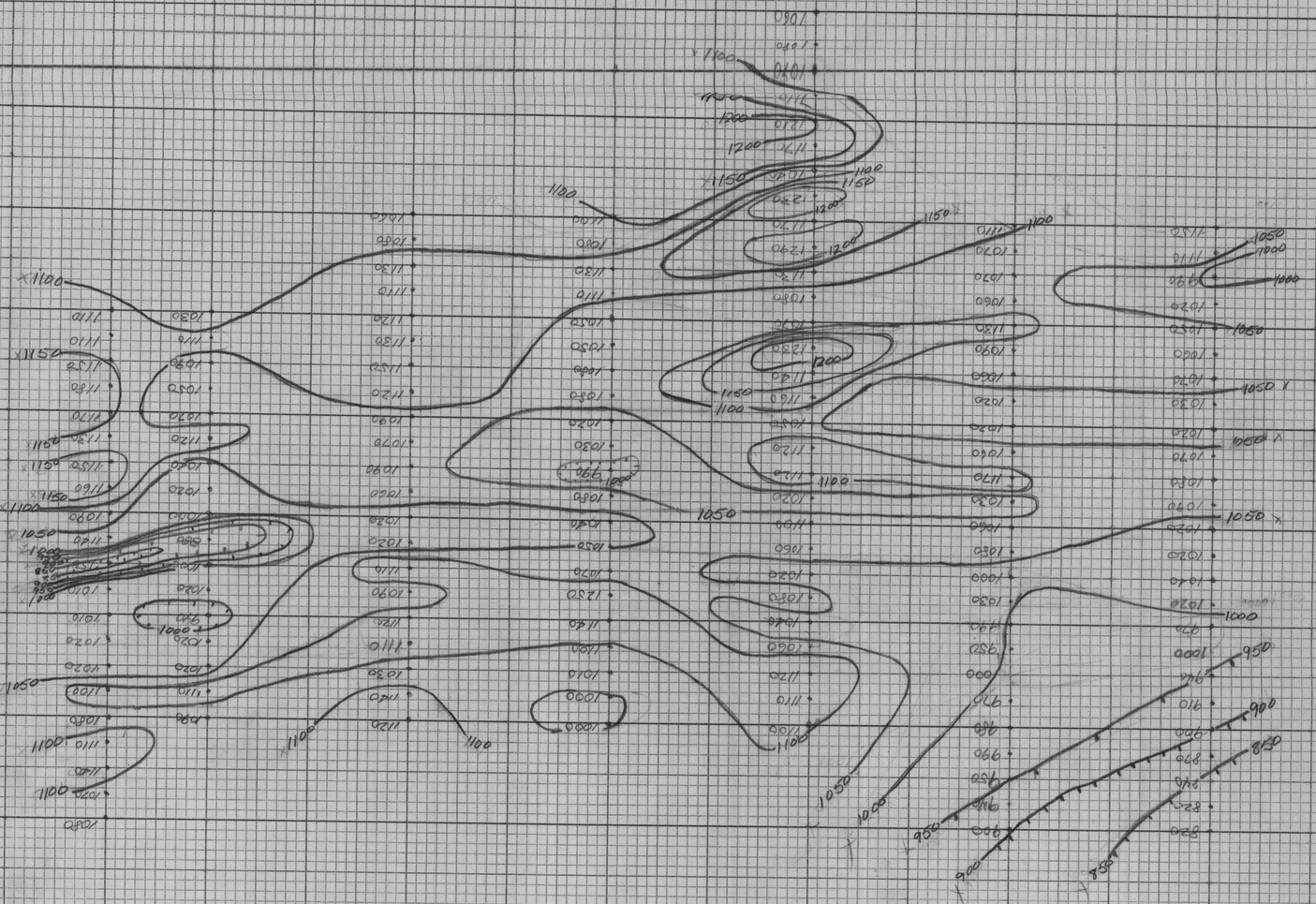
ALBERT D THOMAS
BOX 3593
LOWELL ARIZ



Line 1 2 3 4 5 6 7

N

Albert C Thomas

Liberty Claims

Cochise County, Ariz.

Contour Interval - 50'

MAGNETIC SURVEY, LIBERTY CLAIMS,

COCHISE COUNTY, ARIZONA

For

Mr. Albert D. Thomas

August 1966

By

Heinrichs Geoexploration Company
P O. Box 5671 Tucson, Arizona

TABLE OF CONTENTS

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INTRODUCTION	1
CONCLUSION, RECOMMENDATIONS AND INTERPRETATION	1

IN MAP POCKET: (2 Pieces)

Magnetic Survey (Plan)
Magnetic Profiles
Lines 1 - 7

INTRODUCTION

At the request of Mr. Albert D. Thomas of Bisbee, Arizona, Heinrichs Geoexploration Company conducted and completed a magnetic survey over parts of the Liberty Claims, Cochise County, Arizona during the interim August 24 through August 26, 1966.

Seven lines were run in a N-S orientation and a 25 foot station spacing. A total of 3800 feet of line was surveyed. The data was taken with a Jalander hand-held, flux-gate type, vertical intensity magnetometer having a sensitivity of +/- 10 gammas.

This work was done to determine if magnetics would respond to the mineralization in the area.

Geoex personnel on this job were Fred Heinrichs, geophysical crew chief and Mike Fitz. Report and interpretation by the Tucson Geoex staff under the supervision of Chris S. Ludwig, Senior Geophysicist.

CONCLUSION, RECOMMENDATION, AND INTERPRETATION

The plan contour shows a pronounced E-W lineation in the magnetic values, probably indicative of the geologic structure or grain in the area. The prospect and shaft shown on the plan are both about 100 feet north of a magnetic low and could be related to it. On the south ends of Lines 6 and 7, the magnetic level drops about 200 gammas, possibly due to similar mineralization as mentioned

above, although this zone trends NE-SW. There are several magnetic highs in the area which could be related to mineralization, namely at 225, Line 4, and 575, Line 5. On the north end of Line 7, a magnetic high is building up but is not completely defined. The strongest anomaly encountered on the survey is the low at about 250, Line 1 having an amplitude of nearly 400 gammas and may be due to a fault, dike or mineralized zone.

The interpretation and plan map is somewhat vague due to the lack of a claim and geology base map for control and it is recommended that such a map be made if further work is desired. Magnetics could be quite helpful in this area if correlated with the geology.

Respectfully submitted,

HEINRICHS GEOEXPLORATION COMPANY

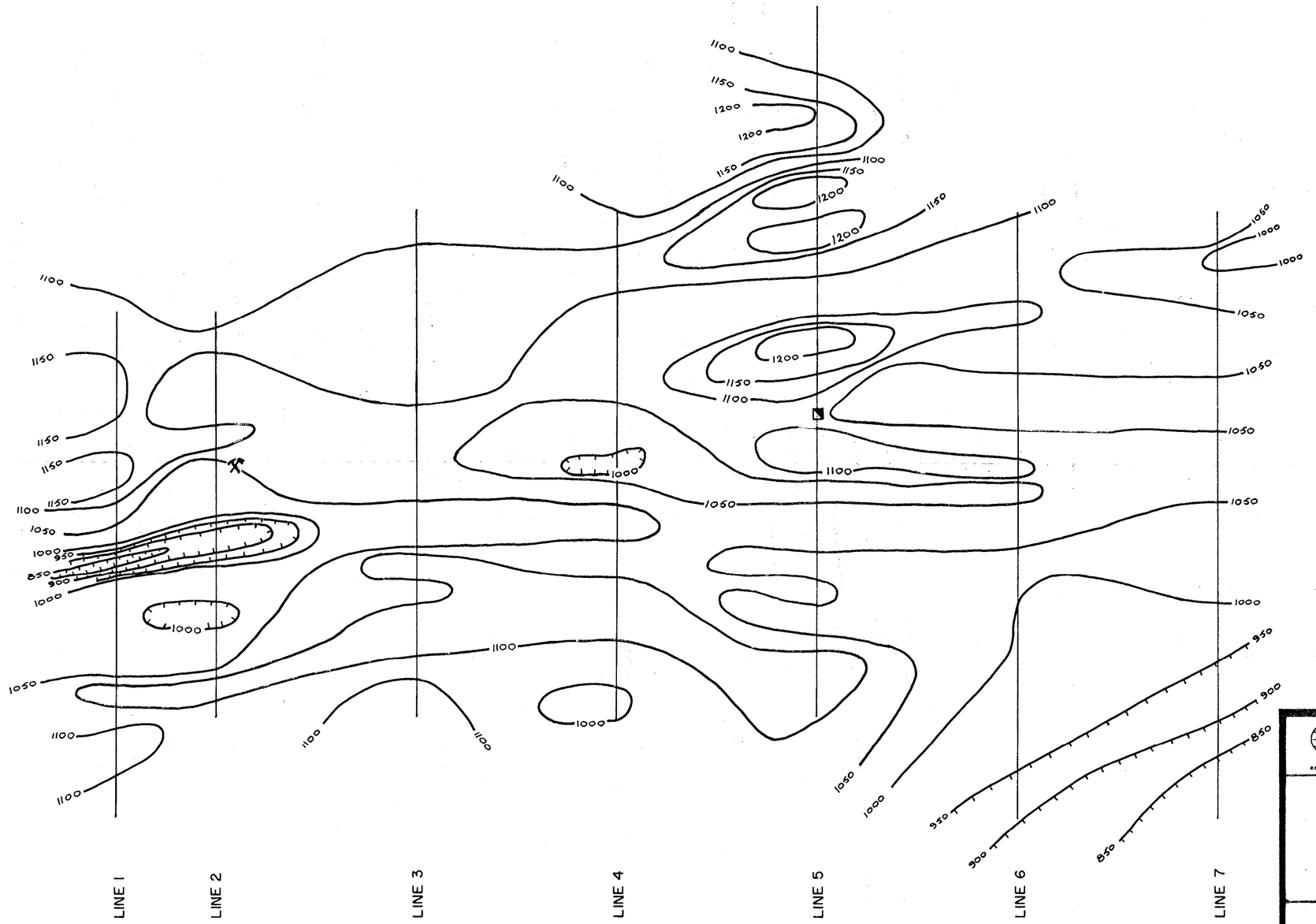
Chris S. Ludwig

Chris S. Ludwig
Senior Geophysicist

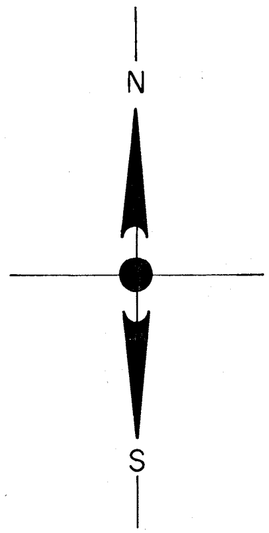
September 26, 1966
P. O. Box 5671
Tucson, Arizona

R 23 E

T 22 S



CONTOUR INTERVAL: 50 GAMMAS



MAGNETIC SURVEY

HEINRICHS GEOEXPLORATION CO.
GEOPHYSICAL ENGINEERS
POST OFFICE BOX 5671. TUCSON, ARIZONA. 85703

LIBERTY CLAIMS
COCHISE COUNTY, ARIZONA

FOR

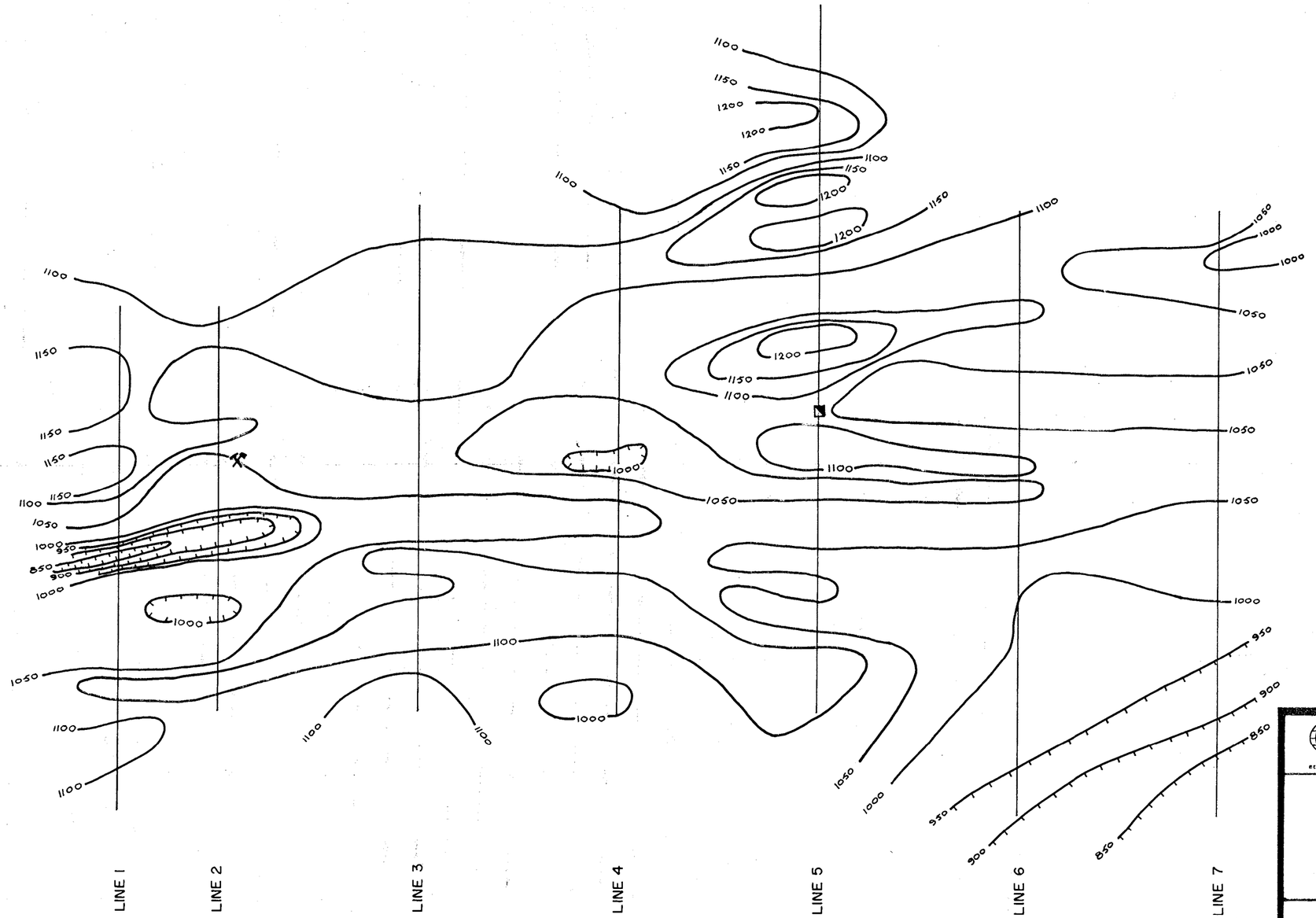
ALBERT D. THOMAS

Scale 1" = 100'

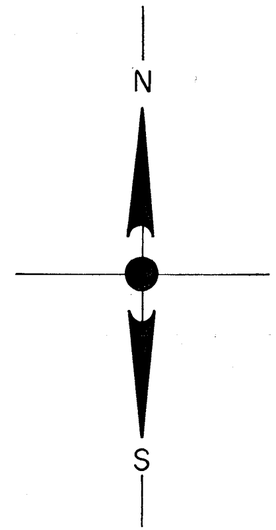
Date SEPT. 1966

R 23 E

T 22 S



CONTOUR INTERVAL: 50 GAMMAS



MAGNETIC SURVEY

HEINRICHS GEOEXPLORATION CO.
GEOPHYSICAL ENGINEERS
POST OFFICE BOX 5671, TUCSON, ARIZONA, 85703

LIBERTY CLAIMS
COCHISE COUNTY, ARIZONA

FOR

ALBERT D. THOMAS

Scale 1" = 100' | Date SEPT. 1966

1" = 50' HORIZONTAL

MAGNETIC PROFILES

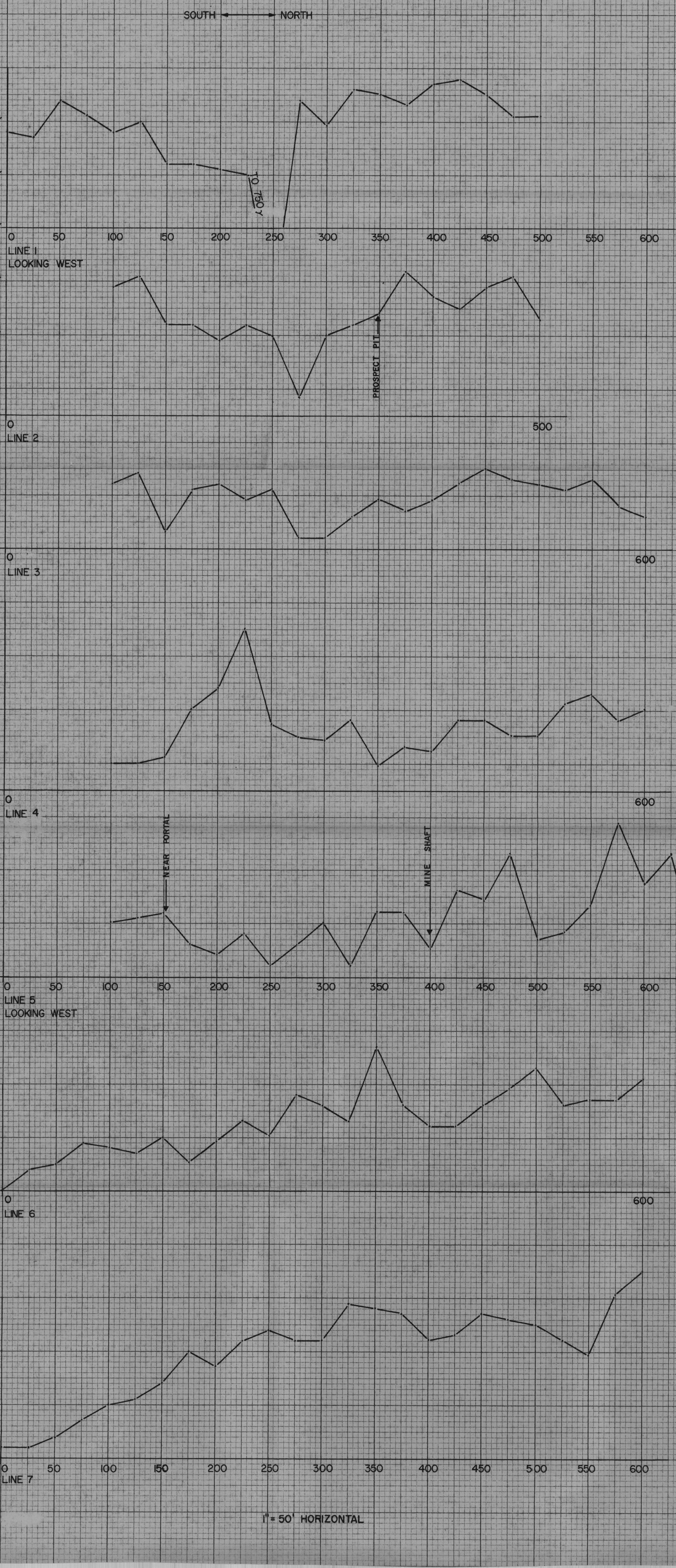
HEINRICHS GEOEXPLORATION CO.
POST OFFICE BOX 5571, TUCSON, ARIZONA, 85703

LIBERTY CLAIMS
COCHISE COUNTY, ARIZONA

FOR

ALBERT D. THOMAS

Scale AS NOTED | Date SEPT. 1966



MAGNETIC PROFILES

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LIBERTY CLAIMS
COCHISE COUNTY, ARIZONA

FOR

ALBERT D. THOMAS

Scale AS NOTED | Date SEPT. 1966