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Ground Magnetometer Survey of the Climax-LeRoy Area near Dos Cabezas, Cochise County Arizona

GROUND MAGNETOMETER SURVEY

of the CLIMAX-LE ROY AREA

near

DOS CABEZAS, COCHISE COUNTY, ARIZONA

for

Mr. Gordon Gallup

of

Beverly Hills, California

by

HEINRICHS GEOEXPLORATION COMPANY
P. O. Box 5671 Tucson, Arizona 85703
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TABLE OF CONTENTS

	PAGE
INTRODUCTION	1
CONCLUSIONS AND RECOMMENDATIONS	2
INTERPRETATION	4
PROCEDURES	6

IN MAP POCKET

Vertical Intensity Magnetic Survey of Climax-LeRoy Area, Cochise County, Arizona

INTRODUCTION

At the request of Mr. Gordon Gallup of Beverly Hills, California, Heinrichs Geoexploration Company conducted a ground magnetometer survey over the Climax and LeRoy Mine workings near Dos Cabezas, Cochise County, Arizona. Field work was performed on the first and second of April 1969. A total of 365 magnetic stations were occupied giving a total ground coverage of 17,300 lineal feet with most stations 50 feet apart.

The purpose of this survey was to help locate possible economic mineral concentrations which apparently occur in small but high grade pockets along a presumed structural trend between the Climax and LeRoy shafts. Magnetics was used to explore for these "ore zones" because of the apparent high magnetic susceptibility of the typical ore rock. One complicating factor was observed, namely that the granitic country rock often has a greater magnetic susceptibility than the diabase with which the ore often occurs.

Personnel involved in this project were: Donald B. Cooley, geologist and John P. Matthews, Jr., geophysicist. Report and interpretation is by J. P. Matthews, Jr., assisted by the GEOEX staff.

CONCLUSIONS AND RECOMMENDATIONS

Although the exact relationship between magnetite and ore in the area remains somewhat ambiguous, the magnetic survey did provide important information on the distribution and concentration of magnetite which can be somewhat correlated with rock type and structure. This, if properly utilized and supplemented, should provide some essential clues which will help discover and develop additional ore. Further information of how ore relates to rock type and structure is important, but more specifically, it is immediately desirable to best identify the existence and position of possible ore for selection of the most advantageous drill sites. For these reasons, further geophysical work is recommended prior to any drilling.

While definite concentrations of magnetic material were delineated, their precise relationship to ore is, at this time unknown. Consequently, drilling done at this stage would probably serve to confirm the cause of these magnetic anomalies, however, any economic mineralization encountered in the process might be somewhat incidental. Therefore, and because drilling is relatively much more expensive, several experimental lines of electrical work (induced polarization and/or electromagnetics) are recommended as an immediate follow-up to the magnetic surveying. These methods if successful, would give more exact information relating to location, attitude, depth, sulfide content, and conductivity of suspected targets. It is estimated that the cost to conduct such an experimental survey would be on the order of $1,500 including report. This is about equal to

the cost of one 100 foot drill hole and the knowledge gained, at this stage of exploration should be ultimately more valuable in assuring a good drill hole-ore-intersection early in the program. If results of this initial work are sufficiently encouraging, further work can be continued as indicated.

If drilling must be considered solely on the basis of the magnetic data, drill holes are suggested to test Anomalies 2 and 3 and the lineation which connects them. Drill locations should be placed at 75 feet south-east of the baseline on Line K and at 300 feet south-east of the baseline on Line I. These holes should be near vertical and programmed to go to a depth of approximately 250 feet if necessary. However, it is anticipated the source of the anomalies will be encountered at 100 feet or less.

To be certain of evaluating and fully appraising the economic potential of these anomalies, a fence of drill holes may be necessary because of the irregular disposition of economic mineralization along these structural planes.

INTERPRETATION

In general the magnetic plan map indicates several parallel features trending approximately N 50° E. These trends are in good agreement with the presumed strike based on the known geology of the area. The notable exception to these trends is the north-south intersecting lineation near Anomalies 2 and 3.

It was hoped that more anomalous magnetic readings would be observed down dip from the surface trace of the known "vein" indicating additional or stronger mineralization at depth. However, all of the anomalies observed had source depths, which in most cases, were 100 feet or less. Thus, the possibility of major new amounts of added magnetic material immediately down dip at depth are lessened. With this in mind, consideration should be given to these near surface magnetic anomalies and their possible relationship to factors of economic importance.

Two possible types of ore occurrences are considered: (1) mineralization associated with the near surface magnetic anomalies and (2) mineralization which may exist down dip from the magnetic anomalies. There is a suggestion that the latter may be the case here as an examination of the anomaly over the Climax shaft will show. Although the major ore was encountered at depth of about 300 feet the magnetic anomaly indicates a depth of roughly 100 feet to the magnetic source of the anomaly.

Based upon the limited geology which was observed during the execution of the magnetic survey and an examination of the magnetic data, these anomalies seem most likely to be caused by the near surface effects of the diabase dikes. There is some conflict here in

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that the surface samples of diabase, which were run in the lab, indicate relatively low magnetic susceptibility, as compared to the country rock. However, this may be due to surface weathering of the magnetite so that in fact the dike may be fairly magnetic a short distance below the surface.

There are at least seven magnetic anomalies which are considered to be sufficiently interesting to warrant further examination and evaluation as follows:

Anomaly 2 is considered to be of primary importance because of its similarity to the anomaly over the Climax shaft and the lineation intersection with Anomaly 3.

Anomalies 3, 4, 5 and 6 all indicate the presence of near surface dike material which may be of economic importance.

Anomaly 7 occurs in the valley approximately 500 feet west of the LeRoy shaft and is probably caused by a diabase dike (personal communication with Prof. Charles Lee).

Anomaly 8 is somewhat isolated from the other observed anomalies and is apparently caused by the basaltic flow observed in the nearby vicinity.

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PROCEDURES

A Jalander vertical intensity measuring fluxgate magnetometer was used for the entire survey. A baseline between the Climax and LeRoy shafts was surveyed by the client, roughly along the strike of the presumed mineralized trend between these two shafts. Magnetometer stations were occupied every fifty feet along lines spaced two hundred feet apart, perpendicular to the baseline. In several instances, twenty-five foot stations were occupied to verify strong magnetic readings at single stations.

Results are presented in magnetic contour plan on a base map of the area constructed by GEOEX at a scale of 1" = 100'. The contour interval is 100 and 500 gammas. A copy of this map is appended.

Respectfully submitted,
HEINRICHS GEOEXPLORATION COMPANY

John P. Matthews, Jr.
Geophysicist

APPROVED:
HEINRICHS GEOEXPLORATION COMPANY

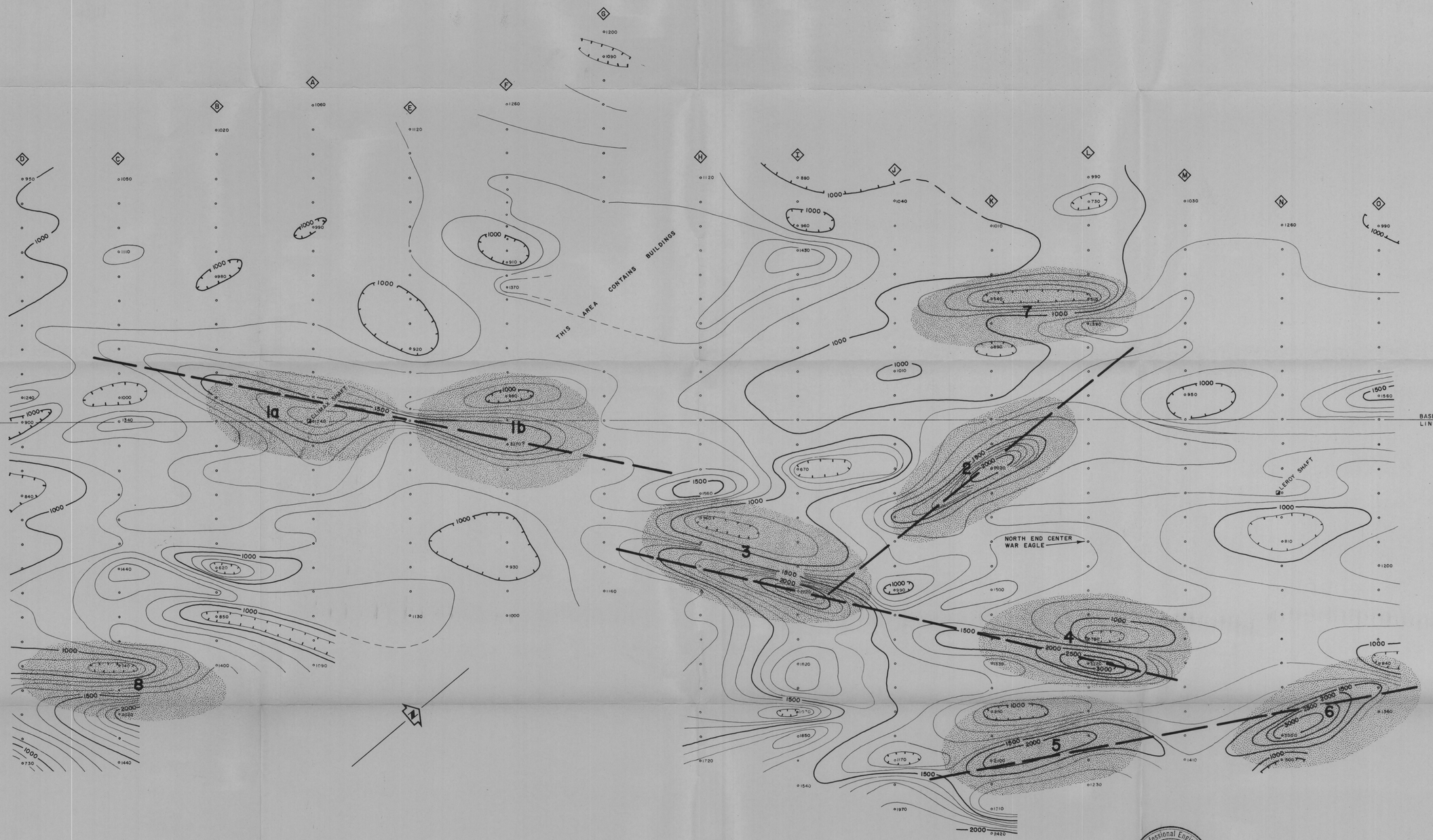
Walter E. Heinrichs, Jr.
President

Registered Professional Engineer (Mining)
CERTIFICATE EXPIRES
WALTER E. HEINRICHS, JR.
DEC. 31, 19 69
ARIZONA, U.S.A.

April 14, 1969
Tucson, Arizona

REFERENCES

Wilson, E. D.; Cunningham, J. B.; and Butler, G. M., 1934, Arizona Lode Gold Mines and Gold Mining. Ariz. Bur. Mines, Technology Series No. 37, Bull. No. 137. pub. Univ. of Ariz. pp. 120-121.



3 ANOMALOUS AREA

MAGNETIC LINEATION

CONTOUR INTERVAL - 100 γ & 500 γ

THIS MAP COVERS A PORTION OF SECTIONS 27 & 34, T 14 S, R 27 E.

LINE DESIGNATION

740 MAGNETOMETER STATION & VALUE

BASE LINE CONTROL FURNISHED BY CLIENT

Registered Professional Engineer (Mining) CERTIFICATE EXPIRES WALTER F. HEINRICHS, JR. DEC. 31, 1969 ARIZONA, U.S.A.

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379-69

VERTICAL INTENSITY MAGNETIC SURVEY
OF
CLIMAX — LEROY AREA
COCHISE COUNTY, ARIZONA
FOR
GORDON D. GALLUP

SCALE: 1" = 100' | DRAWN BY: JAY DOWNS | DATE: APRIL, 1969

Company Hemrichs for Meiland

Location Dos Cabezas **Date** 2/12/81

Description:

1/2 core from drill hole 7

from 168' - 170'

Sample DC 7-2

399 G

Sample Nº 1757

Company Heinrichs for Midland

Location Dos Cabezas **Date** 7/13/8'

Description:

Composite of backside adit dump

Sample # S-16

Sample Nº 1758

Company Hemrichs for Merland

Location Dos Cabezos **Date** 2/13/81

Description:

3.5' across vein structure at backside adit.

Sample # S-17

Sample Nº 1759

Company Hemrichs for Merland

Location Dos Cabezas **Date** 2/13/81

Description:

Composite of diggings & cuts 250' uphill on bearing 130° from backside adit!

Sample # S-18

Sample № 1760

Company Heinrichs for Merland

Location Dos Cabezas **Date** 2/13/81

Description:

1/2 core drill hole #7
235.5' - 238.5'

Sample DC 7-3

Sample Nº 1761

Company Hennichs for Merland

Location Dos Cabezas **Date** 2/14/81

Description:

Composite at Rico Adit

Sample # S-19

Sample Nº 1762

Company Heinrichs for Merland

Location Dos Cabezas **Date** 2/14/81

Description:

Lost Hope or Windlass dump

Composite

Sample S-20

Sample Nº 1763

Company Heinrichs for Merland

Location Dos Cabezas **Date** 2/26/81

Description: 1/2 core Drill Hole #8

181.5' to 183.5'

Sample # DC 8-1

Sample № 1764

Company Heinrichs for Merland

Location Dos Cabezas **Date** 2/26/81

Description:

1/2 core DH#8 183.5' - 185'

Sample DC 8-2

Sample № 1765

Company Heinrichs for Merland

Location Dos Cabezas **Date** 2/26/81

Description:

1/2 core DH#8 185'-187'

Sample DC8-3

Sample № 1766

Company Heinrichs for Merland

Location Dos Cabezas **Date** 2/26/81

Description:

1/2 core DH#8 187'-189'

Sample #DC8-4

Sample № 1767

Company Heinrichs for Merland

Location Dos Cobezas **Date** 2/26/81

Description:

1/2 Core DH #8 189'-190.4'

Sample DC 8-5

Sample Nº 1768

Company Heinrichs for Meland

Location Dos Cabezas **Date** 2/26/81

Description:

1/2 core DH#8 190.4' - 193'

Sample DC8-6

Sample Nº 1769

Company Hemrichs for Midland

Location Dos Cabezas **Date** 2/26/81

Description:

1/2 core DH #8 193'-196'

Sample DC 8-7

Sample № 1770

Company Heinrichs for Merland

Location Dos Cabezas **Date** 3/5/81

Description:

1/2 core drill hole #9

from 94.5' to 96'

Sample # DC 9-1

Sample № 1771

Company Heinrichs for Merland

Location Dos Cabezas **Date** 3/17/81

Description:

Composite 18" across vein in back wall of Oneida adit at 370'

Sample # UG-1

Sample Nº 1772

Company Heinrichs for Merland

Location Dos Cabezas **Date** 3/18/81

Description:

18" across vein on exposed face of workings below 1x from Rico

Sample # S-21

Sample Nº 1773

Company Heinrichs for Merland

Location Dos Cabezas **Date** 3/18/81

Description:

Composite of damp 1X franlico

Sample # S-22

Sample Nº 1774

Company Heinrichs for Merland

Location Dos Cabezas **Date** 3/18/81

Description:

24" across vein on exposed face of workings 1X from Rico

Sample # S-23

Sample Nº 1775

Company Heinrichs for Merland

Location Dos Cabezas **Date** 3/18/81

Description:

Composite of dump 2x from Rico

Sample # S-24

Sample Nº 1776

Company Heinrichs for Merland

Location Dos Cabezas **Date** 3/19/84

Description:

Composite of working on Linsley vein at crest of hill.

Sample # 5-25

Sample Nº 1777

Company Heinrichs for Merland

Location Dos Cabezas **Date** 3/19/81

Description:

Composite of dump at shaft at N26°W
as mm ~~of~~ S 60°W to Windmill

Sample #S-26

Sample Nº 1778

Company Kleinichs for Merland

Location Dos Cabezas **Date** 3/19/81

Description:

Composite of dump 2.5X from Rico

Sample #5-27

Sample № 1779

Company Heinrichs for Meland

Location Dos Cabezas **Date** 3/19/81

Description:

Composite from dump 3X from Rico

Sample # S-28

Sample Nº 1780

1 APRIL 69

①

Sta.	Time	Scale	Dial		
B-1					
0+00	10:49	+1	115	1150	1150
0+50 S			115	1150	1150
1+00 S			141	1410	1410
1+50 S			123	1230	1230
2+00 S			123	1230	1230
B-5					
2+50 S			116	1160	1160
2+75 S			110	1100	1100
3+00 S			62	620	620
3+25 S			102	1020	1020
3+50 S	10:58		137	1370	1370
4+00 S			85	850	850
4+50 S			123	1230	1230
B					
5+00 S	11:03		140	1400	1400
B					
N 0+50			154	1540	1540
N1+00	11:11		150	1500	1500
N1+50			118	1180	1180
N2+00			110	1100	1100

Sta	Time	Scale	Dial	Y	
B-12 N 2+50		+1	103	1030	1030
N 3+00			98	980	980
N 3+50			103	1030	1030
N 4+00			103	1030	1030
4 [illegible] N 4+50			108	1080	1080
Rd N 5+00	11:20		100	1000	1000
N 5+50			105	1050	1050
B N 6+00	11:23		102	1020	1020
LINE A	LINE A			+10	
A-1 N 6+50	11:28	+1	105	1050	1060
N 6+00			105	1050	1060
A-12 N 5+50			108	1080	1090
N 5+00			108	1080	1090
N 4+50			103	1030	1040
N 4+00			98	980	990
RB N 3+50	10:33		102	1020	1030

sta	time	scale	dial	γ	
N 3+00		+1	102	1020	1030
A-8 N 2+50			103	1030	1040
N 2+00			110	1100	1110
N 1+50			115	1150	1160
N 1+00			128	1280	1290
N 0+50			148	1480	1490
0+00			178	1780	Trash 1790
S 0+50		-1	5	50	Junk -40
A-3 S 1+00		+1	139	1390	1400
S 1+50	11:46		130	1300	Tin 1310 roofing
2+00			105	1050	1060
2+50			110	1100	1110
3+00			108	1080	1090
3+50			110	1100	1110
4+00			110	1100	1110
4+50			84	840	850 gully
5+00	11:50		108	1080	1090

LINE A

sta	Time	Scale	Dur	8"	
B-1 0+00	1200	+1	114	1140	1150
B 1	1203	+1	113	1130 +20 D 120	1150
line E E-0+00	08		155	1550	1570
0+50			125	1250	1270
1+00	PIPE LINE		118	1180	1200
1+50			90	900	920
2+00			92	920	940
2+50			94	940	960
E-11 3+00			106	1060	1080
3+50			108	1080	1100
4+00			108	1080	1100
4+50			105	1050	1070
5+00			108	1080	1100
5+50			108	1080	1100
E 6+00			110	1100	1120

See Over

line					
F					
	319	+1	[illegible]	1240	1260
N 6+00			116	[illegible]	1180
5+50			116	[illegible]	1180
5+00			117	1170	1190
			[illegible]	[illegible]	1290
4+50			[illegible]	[illegible]	1280
			117	1170	1190
4+00			[illegible]	1010	1200
			[illegible]		1030
3+50			[illegible]	[illegible]	990
					990
3+00			[illegible]	840	910
			124	1240	1260
2+50			135	[illegible]	1370
			115	1150	1170
2+00			115	1150	1170
1+50			115	1160	1140
1+00			126	1260	1280
N 0+50			[illegible]	[illegible]	980
F					
E 0+00			127	1320	1540
S 0+50		+2	109		3270
1+00		[illegible]	112	1120	1140

Sta	Time	Scale	Dial	δ	
1+50		+1	111	1110	1130
2+00	1336		97	970	990
2+50			94	940	960
3+00			91	910	930
3+50			104	1040	1060
F S 4+00	46		98	980	1000
E S 4+00			111	1110	1130
3+50	53		112	1120	1140
3+00			104	1040	1060
2+50			99	990	1010
2+00			107	1070	1090
1+50			105	1050	1070
1+00			112	1120	1140
S 0+50			110	1100	1120
E 0+00			114 157	1140 1570	1160 1590
N 0+25	01		114	1140	1160

Sta	Time	Scale	Dial	P	
G					
10 8+00	1450	+1	118	1180	1200
G-9					
7+50			107	1070	1090
7+00			115	1150	1170
6+50			118	1180	1200
G-12					
6+00			124	1240	1260
5+50			115	1150	1170
5+00			108	1080	1100
4+50			118	1180	1200
4+00			118	1180	1200
				−10 +10	
10 0+50			123	1230 +20	1240
G					
0+00			106	1060	1070
5 0+50			124	1240	1250
1+00			105	1050	1060
1+50			126	1260	1270
2+00			115	1150	1160
2+50			126	1260	1270

Sta	time	Scale	Dial	γ	(7)
S 3+00	1510	+1	118	1180	1190
G					
3+50			115	1150	1160
H					
N 0+50			102	1020	1030
1+00			112	1120	1130
1+50			117	1170	1180
2+00			130	1300	1310
2+50			125	1250	1260
3+06			122	1220	1230
3+50			125	1250	1260
4+00			126	1260	1270
4+50			117	1170	1180
5+00	1530		111	1110	1120
H					
0+00	1555	+1	97	970	980
S 0+50			122	1220	1230
1+00			132	1320	1330

Sta	time	Scale	Dial	K	(8)
1+50		+1	155	1550	1560
2+00			73	730	740
2+50	1601	2 diabase	106	1060	1070
3+00			178	1780	1790
3+50			111	1110	1120
4+00			124	1240	1250
4+50			107	1070	1080
5+00			125	1250	1260
5+50			126	1260	1270
6+00			127	1270	1280
6+50			147	1470	1480
H 7+00	1610		172	1720	1730
B 1	1650		114	1140	1150

2 April 69

Data corrected to Base H value 11708

(9)

Sta	Time	Scale	Dial	γ	
H					
0+00	8:20	+1	122	1220 +10 -50	1180
I					
0+00	8:34	+1	101	1010	970
N 0+50			97	970	930
N 1+00			100	1000	960
N 1+50			109	1090	1050
N 2+00			105	1050	1010
N 2+50			116	1160	1120
N 3+00			138	1380	1340
N 3+50			147	1470	1430
N 4+00			100	1000	960
N 4+50	8:43		111	1110	1070
I N 5+00	8:44		92	920	880
J					
N 4+50			108	1080	1040
N 4+00			105	1050	1010
N 3+50			110	1100	1060
N 3+00			110	1100	1060
N 2+50			98	980	940
N 2+00			104	1040	1000

J. L. DARLING CORP. TACOMA, WASH. USA No. 314 WATERPROOF

9a

Sta	Time	Scale	Dial	γ	
N 1+50			1010	1010	970
N 1+00			105	1050	1010
N 0+50			102	1020	980
J 0+00	8:55		110	1100	1060
S 0+50	9:00	+1	98	980	950
S 1+00			80	800	770
S 1+50			117	1170	1140
S 2+00			162	1620	1590
S 2+50			130	1300	1270
S 3+00			127	1270	1240
S 3+50			102	1020	990
S 4+00			138	1380	1350
S 4+50			142	1420	1390
S 5+00			152	1520	1490
S 5+50			146	1460	1430
6+00			156	1560	1530
6+50			140	1400	1370
7+00			115	1150	1120
7+50			188	1880	1850
J 8+00			200	2000	1970

Sta.	Time	Scale	Dial	γ	
I S 8+00	9:20	+1	157	1570 +10 4°	1540
S 7+50			155	1550	1520
S 6+50			188	1880	1850
S 6+00			110	1100	1070
S 5+50			185	1850	1820
S 5+00			185	1850	1820 − trench
S 4+50			165	1650	1620
S 4+00			175	1750	1720
S 3+50			225	2250	2220
S 3+00			100	1000	970
S 2+50			85	850	820
S 2+00			98	980	950
S 1+50			95	950	920
S 1+00			65	650	620
S 0+50	9:36		105	1050	1020
I 0+00	9:38		105	1050	1020
K S D+00	9:50	+1	128	1280 +10 −30	1260
S 0+50			15	150	1480
S 1+00			210	2100	2080
S 1+50			135	1350	1330 Cl. Cor.
S 2+00			115	1150	1130
K 2+50			132	1320	1300

WATERPROOF

(10a)

J. L. DARLING CORP. USA No. 314 TACOMA, WASH

K Sta.	Time	Scale	Dial	γ	
s 3+00	9:58	+1	127		1250
s 3+50			152		1500
s 4+00			124		1220
s 4+50			175		1730
s 5+00			135		1330
s 5+50			142		1400
s 6+00			97		950
s 6+50			125		1230
s 7+00			212		2100
s 7+50			135		1330
s 8+00			123		1210
K s 8+50	10:04	+2	98	2940	2920
L s 7+50	10:13	+1	125		1230
s 7+00		↓	135		1330
s 6+50			205		2030
s 6+00			112		1100
s 5+50			118		1160
s 5+00		+2	108	3240	3220
s 4+50		+1	80		780
s 4+00			110		1080
L s 3+50			125		1230

Sta	Time	Scale	Dial	r	
L S 3+00		+1	132	+10 -2	1300 NEC War Eagle
S 2+50			132		1300
S 2+00			120		1180
S 1+50			122	+10 -20	1210
S 1+00			126		1250
S +50			138		1370
L 0+00	10:25		140		1390
N 0+50		+1	128		1270
N 1+00			128		1270
N 1+50			110		1090
N 2+00			140		1390
N 2+50			52		510
N 3+00			94		930
N 3+50			98		970
N 4+00			97		960
4+50			74		730
L 5+00	10:35		100		990
L N 7+00			102		1010
N 3+50			105		1040
N 3+00			105		1040
N 2+50			55		540

J. L. DARLING CORP. TACOMA, WASH. USA No. 314 WATERPROOF

(11a)

Sta	Time	Scale	Dial	γ	
K 2+00		+1	102	1020 -10	1010
1+50			90	900	890
1+00			95	950	940
0+50			96	960	950
K 0+00	10:44		130	1300	1290
N 0+00					
S 0+50	1055	+1	126	1260	1250 Leroy
S 1+00			116	1160	1150 dump
1+50			130	1300	1290 dump
2+00			90	900	" 890
2+50			82	820	" 810
3+00			102	1020	1010
3+50			112	1120	1110
4+00			115	1150 -10	
4+50			115	1150	
5+00			120	1200	
S 5+50			130	1300	
S 6+00			150	1500	
6+50		+2	110	3300	
N S7+00	11:08	+1	50	500	

sta	Time	Scale	Dial	γ	γ
M N 7+00	11:11	+1	141	1410 +10 -10	
6+50			130	1300	
6+00			130	1300	
S 5+50			112	1120	
S 5+00			115	1150	
S 4+50			105	1050	
S 4+00			115	1150	
S 3+50			130	1300	
S 3+00			106	1060	
S 2+50			106	1060	
S 2+00			106	1060	
S 1+50			120.	1200	
S 1+00			130	1300	
S 0+50			137	1370	
M 0+00	11:21		98	980	
N 0+50			95	950	
N 1+00			110	1100	
N 1+50			122	1220	
N 2+00			117	1170	
N 2+50			123	1230	
N 3+00			115	1150	
M N 3+50			112	1120	

J. L. DARLING CORP. TACOMA, WASH. USA No. 314
WATERPROOF

(12a)

sta	time	Scale	Dial	γ
N N4+00			103	1030 +10 -10
N4+50	11:27		103	1030
(N) N 4+00	11:30		106	1060
N 3+50			112	1120
N 3+00			110	1100
N 2+50			112	1120
N 2+00			110	1100
N 1+50			115	1150
N 1+00			111	1110
N 0+50			111	1110
N 0+00	11:34		119	1190
(O) S 0+00				
S 0+50			122	1220
S 1+00			102	1020
S 1+50			105	1050
S 2+00			100	1000
S 2+50			117	1170
S 3+00			120	1200
S 3+50			106	1060
O S 4+00			118	1180

Sta	time	scale	Dial	K	
S 4+50			102	1020 +10	1030
S5+00			85	850	860
S5+50			152	1520	1530
S6+00			135	1350	1360
~~0+00~~	~~12:03~~	~~+1~~	~~114~~		
N0+50	11:50		155	1550	1560
N1+00			115	1150	1160
N1+50			117	1170	1180
N2+00			112	1120	1130
N2+50			112	1120	1130
N3+00			103	1030	1040
N3+50			102	1020	1030
N4+00	11:53		98	980	990
0+00	12:03	+1	114	1140	1150
H 0+00	12:12	+1	117	1170	1180
B 0+00	12:18		114	1140 +10	1150
B 0+00	14:08		116	1160 -10	1150

J. L. DARLING CORP. TAC WASH USA No. 314 WATERPROOF

13a

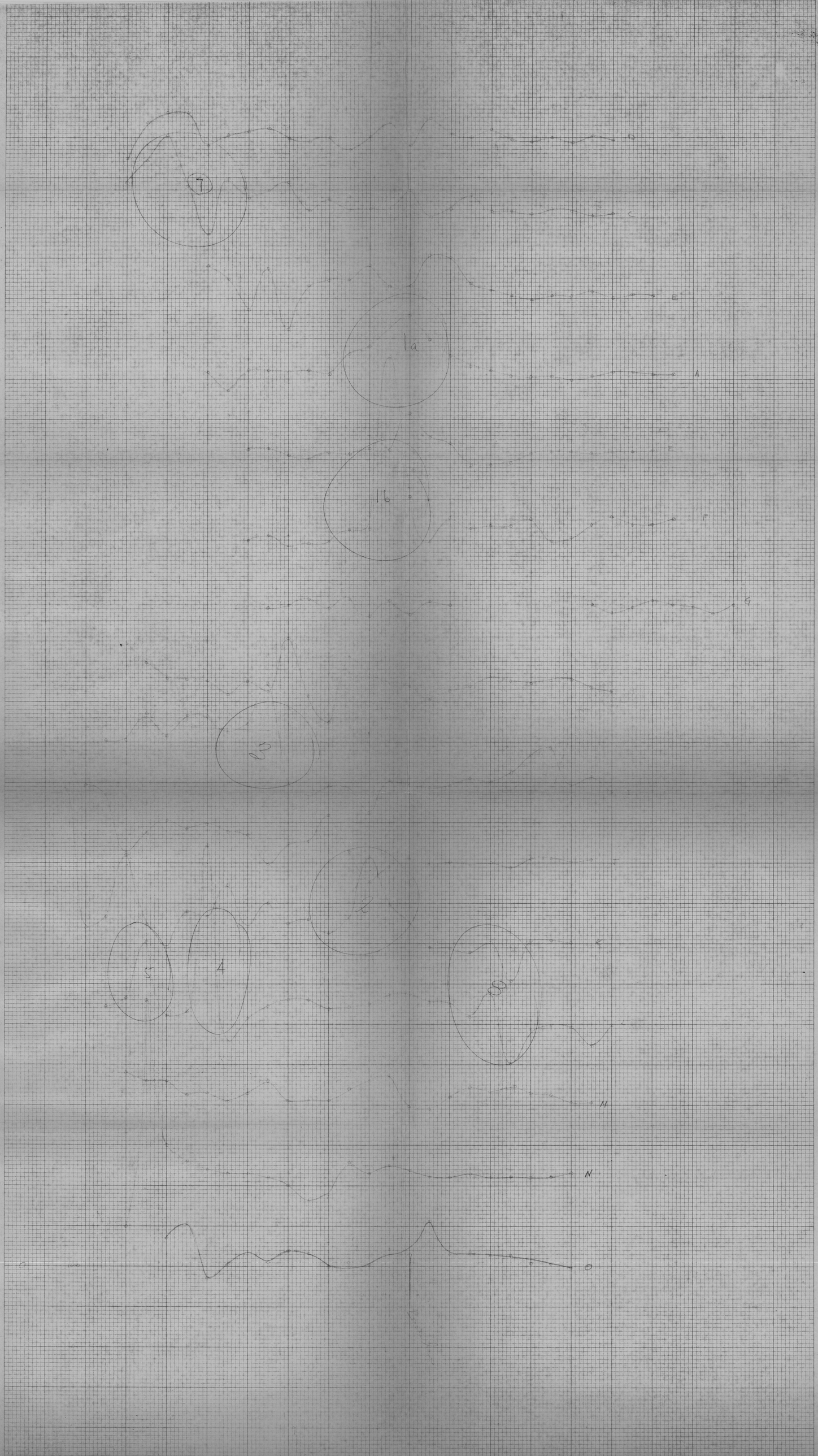
Sta	Time	Scale	Dial	γ	
C					
s0+00	14:17	+1	135	1350	1340
s0+50			112	1120	1110
s1+00			112	1120	1110
s1+50			110	1100	1090
s2+00			123	1230	1220
2+50			110	1100	1090
3+00			145	1450	1440
3+50			135		1340
4+00			125		1240
4+50			150		1490
5+00			75		740
5+50			140		1390
6+00			203		2020
6+50			172		1710
7+00	14:32		145		1440
C 7+50					
D					
s7+00	14:42	+1	74		730
6+50			120		1190
s6+00			132		1310
s5+50			132		1310

D sta	Time	Scale	Dial	X	
s 5+00			90	-10	890
s 4+50			104		1030
s 4+00			108		1070
s 3+50			112		1110
s 3+00			100		990
s 2+50			95		940
s 2+00			101		1000
s 1+50			85		840
s 1+00			92		910
s 0+50			120		1190
0+00	14:56		91		900
0+50	15:03		125		1240
1+00			105		1040
1+50			101		1000
2+00			111		1100
2+50			97	-10 +10	970
3+00			94		940
3+50			100		1000
4+00			93		930
4+50			102		1020
5+00	15:11		98		980
D 5+50					

J. L. DARLING CORP. TACOMA WASH. USA No. 314 WATERPROOF

14a

Sta	Time	scale	Dial		
C 5+00	15:14	+1	105		1050
4+50			102		1020
4+00			108		1080
3+50			111		1110
3+00			105		1050
2+50			108		1080
2+00			108		1080
1+50			128		1280
1+00			112		1120
0+50	15:21		100		1000
C 0+00					
B 0+00	16:00		115		1150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O

HEINRICHS GEOEXPLORATION COMPANY

806 WEST GRANT ROAD, TUCSON, ARIZONA, 85703. P.O. BOX 5671. PHONE: (AREA CODE 602) 623-0578

March 21, 1969

Mr. Gordon D. Gallup
1510 Gilcrest Drive
Beverly Hills, California 90210

Re: Proposed Geophysical Survey
near Dos Cabezas, Cochise
County, Arizona

Dear Mr. Gallup:

Based on our conference with you and Mr. Lee on Saturday, March 15, we herewith submit a proposal for doing a magnetic survey in the Le Roy-Climax Area near Dos Cabezas, Cochise County, Arizona.

The samples you left have been inspected and the ore is quite strongly magnetic - more so than the other rock types in the area. However, the granite is somewhat more magnetic than typical, in fact about as strong as the diabase. Therefore, the mineralization may not show up very strongly, particularly where it is in quite narrow veins.

A sensitive magnetometer experimental survey is therefore recommended to determine the feasibility of this technique over the general area. One field day over several known ore shoots would likely serve to determine the applicability of magnetics in the area.

If magnetics are successful, a detailed survey to cover the entire area ofinterest can be conducted. If about one square mile is covered, about three additional field days would be involved.

We recommend a two man field crew with one vehicle and necessary equipment to run an experimental magnetic survey. The charges for this are $175.00/day plus expenses. The charged expenses consist of $15.00/day plus $0.15/mile per vehicle plus living expenses and directly related supplies and communications. Final compilation, computation, interpretation and report is $150.00/Tucson staff day.

The above daily rates are prorated on a ten hour field day basis including travel time. Excessive weather delay, and standby charges are one half the daily rate. Breakdown of our equipment in excess of one hour per day will be made up or not charged.

Others of our technical staff are involved as needed and/or are supplied as requested and mutually agreed upon.

All property permits, brushing and trespassing-liability and related costs incurred on behalf of client, assumed by client. Charges for extra equipment and personnel employed if mutually desired, are extra.

GEOEX will save client harmless from all Workmen's Compensation, public liability, and property damage liability incurred by Geoex employees.

Preliminary reports or copies of rough field plotting sheets will be available as work progresses.

Payments due on presentation. Billings may be submitted periodically with final statement after completion of final report.

It is estimated that the experimental survey including report and interpretation would cost about $600.00. If the entire area is covered, about $1,200.00 additional would suffice including report and interpretation.

Induced polarization surveying could have some application in the district in locating sulfide zones. This technique generally utilizes three men and is charged at $250.00/ten hour prorated day plus expenses as with the magnetics. Typically one line mile of coverage is obtained per day. This technique could be tried if the magnetics are unsuccessful.

Our crew availability is generally one to three weeks upon notification to proceed.

Indication of your understanding and approval of the above magnetic survey proposal by executing as provided below on the attached copy of this letter and returning it to us will be most appreciated.

Very truly yours,

HEINRICHS GEOEXPLORATION COMPANY

Chris S. Ludwig

Chris S. Ludwig
Sr. Geophysicist

APPROVED BY: _____

TITLE: _____

DATE: _____

CSL/rc

cc: Mr. Charles A. Lee
837 Alma Real Drive
Pcific Palisades, California 90272

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Beverly Hills, California 90210

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Chris S. Ludwig

Chris S. Ludwig
Sr. Geophysicist

APPROVED BY: _____

TITLE: _____

DATE: _____

CSL/rc

cc: Mr. Charles A. Lee
837 Alma Real Drive
Pcific Palisades, California 90272

Mr Gallay, Gordon D.
1510 Lilacrest Dr.
Beverly Hills, Calif
90210

Mr. Charles Lee
Copy

Le Roy
Climax
ABM Gold mines

Gold Prince

P.D. worked over?

Will leave rock samples Friday

Magnetics & (I.P.)

32 175	G.P.	28	2 525
90	MDM	3 81	
30	M		10
30	V		45
15	Misc		20
55	L		85
200	Rept		380
595			1065

$1600

$1100

Equity Securities Corporation
6725 SUNSET BLVD., LOS ANGELES, CALIF. 90028
SUITE 319
TEL. 461-3631 Prof Santa Cita College
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EQUITY FUNDING CORPORATION OF AMERICA
837 ALMA REAL DR.
PACIFIC PALISADES Ca.
90272
CHARLES LEE, REGISTERED REPRESENTATIVE
A.