



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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Moses

MAB.

Survey
8-30-65

Notes

Kitt Peak 1 Dec, 1964
 National Radio Astronomy Observatory
 36' Radio Telescope
 Foundation Study

LINE 1

FROM Center Hole 1 to
 Hole 4 bearing S35°W
 Inst. @ Center Hole 1 Geophone
 1 @ Inst. (R) Geophone 2 (L)
 a Sta. 1+70

Sta.	R #1	Ave.	Sta.	L #2	Ave.
3	7, 8, 12, 12, 11, 11		167	?	?
5	15, 15, 15	15	165	?	?
10	14, 14, 14	14	160	?	?
15	26, 26 26	26	155	93, 92 91, ?	92
20	39, 38 37	38	150	?	
30	35, 54 54, 54	54	140	?	
40			130		

NG disregard

Remarks

BASE STA AT CLAIM COR.

AT CLAIM CORNER

CLAIM COR

IN OLD DRY POND

MAGNETIC SURVEY 1
C.T. MOSES

8/27/65

LINE No.	40 N			
<u>STN.</u>	<u>Polarity</u> <u>SENS.</u>	<u>Read</u>	<u>GAMMAS</u>	<u>TIME</u>
0 ^E _W	+1	135	1350	12:54
1 E	+1	112	1120	1:01
2 E	+1	135	1350	1:02
3 E	+1	140	1400	1:03
4 E	+1	145	1450	1:04
5 E	+1	145	1450	1:05
6 E	+1	145	1450	1:06
7 E	+1	170	1700	1:07
8 E	+1	175	1750	1:09
9 E	+1	165	1650	1:11
10 E	+1	138	1380	1:12
11 E	+1	116	1160	1:14
12 E	+1	147	1470	1:15

1 W	+1	92	920	1:43
2 W	+1	102	1020	1:44
3 W	+1	100	1000	1:45
4 W	+1	103	1030	1:46
5 W	+1	100	1000	1:47
6 W	+1	184	840	1:48

REMARKS

BASE

BASE 0.0 $\frac{1}{2}$

AT IP CENTER

MAGNETIC SURVEY
C.T. MOSES

5 1/2 Hrs

8-27-65

LINE	No	O/N/S		
STA	POLARITY SENS.	READ	GAMMAS	Time
7W	+1	72	720	1:50
8W	+1	78	780	1:51
9W	+1	68	680	1:52
10W	+1	87	870	1:53
11W	+1	90	900	1:54
12W	+1	72	720	1:55
0.0	+1	135	1350	2:15

8-30-65

BASE	+1	135	1350	8:30
LINE	No	1-N		
0E	+1	120	1200	8:47
1E	+1	132	1320	8:49
2E	+1	177	1770	8:50
3E	+2	90	900	8:51
4E	+2	57	570	8:52
5E	+2	56	500	8:53
6E	+2	52	520	8:54
7E	+2	43	430	8:56
8E	+2	52	520	8:57

MAGNETIC SURVEY

C.T. MOSES

8-30-65

LINE NO	T N	STATION	POLARITY SENS.	READ	GAMMAS	TIME
9E	+2	30		300	300	8:58
10E	+2	40		400	400	8:59
11E	+2	57		570	570	9:00
12E	+2	43		430	430	9:03
1W	+1	113		1130	1130	9:49
2W	+1	95		950	950	9:50
3W	+1	95		950	950	9:51
4W	+1	90		900	900	9:52
5W	+1	73		730	730	9:53
6W	+1	74		740	740	9:54
7W	+1	60		600	600	9:55
8W	+1	80		800	800	9:56
9W	+1	88		880	880	9:57
10W	+1	90		900	900	9:58
11W	+1	88		880	880	9:59
12W	+1	100		1000	1000	10:00
12+25W	+1	95		950	950	—

PIPE IN COR READINGS TAKEN
25 + 50 AROUND DONT VERY

MAGNETIC SURVEY

C.T. MOSES

8-30-65

LINE	NO.	2N		
STA	POLARITY SENS	READ	GAMMAS	TIME
0 E/W	+1	230	2300	10:24
1 E	+1	130	1300	10:30
2 E	+1	65	650	10:31
3 E	+1	140	1400	10:32
4 E	+1	145	1450	10:33
5 E	+1	160	1600	10:34
6 E	+1	156	1560	10:35
7 E	+1	95	950	10:36
8 E	+1	106	1060	10:40
9 E	+1	55	550	10:45
10 E	+1	122	1220	10:46
11 E	+1	62	620	10:47
12 E	+1	118	1180	10:48
	+1			11:00
1 W	+1	190	1900	11:00
2 W	+1	188	1880	11:01
3 W	+1	190	1900	11:02
4 W	+1	145	1450	11:03
5 W	+1	110	1100	11:04
6 W	+1	145	1450	11:06
7 W	+1	100	1000	11:10
8 W	+1	63	630	11:11

STARTED ^{STA} 12 W L-2 N
ST 14 NW ON 1P LINE 1

LEDG OUT CROP STAINED BROWN + RED
5 NW + 20' READ 110

MAGNETIC SURVEY

C. J. MOSES

8-30-65

LINE	NO	2N		
STA	POLARITY SENS.	READ	GAMMAS	TIME
9W	+1	72	720	11:13
10W	+1	70	700	11:14
11W	+1	82	820	11:16
12W	+1	78	780	11:17

LINE	NO	I.P. 1	N.W	END
14NW	+1	78	780	11:27
13NW	+1	80	800	11:28
12NW	+1	75	750	11:29
11NW	+1	115	1150	11:30
10NW	+1	80	800	11:31
9NW	+1	80	800	11:32
8NW	+1	95	950	11:34
7NW	+1	105	1050	11:35
6NW	+1	115	1150	11:36
5NW	+1	70	700	11:37
4NW	+1	70	700	11:39
3NW	+1	105	1050	11:40
2NW	+1	120	1200	11:41
1NW	+1	127	1270	11:42
0SE	+1	120	1200	11:43

BASE

$0 \frac{5}{4}$ AT CENTER I.P. 2

MAGNETIC SURVEY

C.T. MOSES

LINE NO. T.P. 1

8-30-65

JTA	POLARITY SENS	READ	GAMMAS	TIME
1 SE	+1	100	1000	12.25
2 SE	+1	105	1050	12.26
3 SE	+1	132	1320	12.27
4 SE	+1	153	1530	12.28
5 SE	+1	165	1650	12.30
6 SE	+1	174	1740	12.31
7 SE	+1	185	1850	12.32
8 SE	+1	185	1850	12.33
9 SE	+1	188	1880	12.34
10 SE	+1	205	2050	12.39
11 SE	+1	180	1800	12.40
12 SE	+1	170	1700	12.41
13 SE	+1	140	1400	12.42
14 SE	+1	147	1470	12.43

6 N S	+1	136	1360	1.15
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LINE NO. 15 8-30-65

0 E W	+1	100	1000	1.40
1 E	+1	100	1000	1.41
2 E	+1	98	980	1.42
3 E	+1	107	1070	1.43
4 E	+1	129	1290	1.44

MAGNETIC SURVEY

C.T. Moses

8-30-65

LINE	NO	IS		
STA	POLARITY SENS	READ	GAMMAS	TIME
5E	+1	135	1350	1.46
6E	+1	148	1480	1.47
7E	+1	170	1700	1.48
8E	+1	195	1950	1.50
9E	+1	163	1630	1.51
10E	+1	162	1620	1.52
11E	+1	160	1600	1.53
12E	+1	195	1950	1.54
1W	+1	95	950	2.15
2W	+1	103	1030	2.16
3W	+1	92	920	2.17
4W	+1	94	940	2.18
5W	+1	105	1050	2.19
6W	+1	80	800	2.20
7W	+1	100	1000	2.21
8W	+1	94	940	2.27
9W	+1	97	970	2.23
10W	+1	95	950	2.24
11W	+1	107	1070	2.25
12W	+1	95	950	2.27
0 ^N / _S	+1	137	1370	2.42

RAIN

77

BASE
O LINE 2 CLAIM COR

12 W 240' SOUTH OF ROAD

ROAD 4.57E

MAGNETIC SURVEY

2 HAS

C.T. MOSES

8-31-65

LINE	No	RS			
STA	POLARITY SENS	READ	DIP	Time	GRAMMAS
0 N/S	+1	130	+ 508	9:00	1350
0 SW	+1	92	↓	9:07	970
1 W	+1	105		9:08	1100
2 W	+1	95		9:09	1000
3 W	+1	97		9:10	1020
4 W	+1	100		9:11	1050
5 W	+1	98		9:12	1030
6 W	+1	85		9:16	900
7 W	+1	102		9:17	1070
8 W	+1	103		9:18	1080
9 W	+1	112		9:19	1170
10 W	+1	87		9:20	920
11 W	+1	97		9:21	1020
12 W	+1	90	9:22	950	
1 E	+1	120	↓	9:30	1250
2 E	+1	97		9:31	1020
3 E	+1	102		9:32	1070
4 E	+1	90		9:33	950
5 E	+1	112		9:35	1170
6 E	+1	112		9:38	1170
7 E	+1	95		9:39	1000

12E CLAIM COR

BEGINNING 12E LINE 25 CLAIM COR
1P 14 S/E

MAGNETIC SURVEY

C.T. Moses

8-31-65

LINE	NO	25			
STA	POLARITY SENS.	READ	DIVISIONAL	TIME	GAMMAS
9E	+1	110	+50X	9:40	1150
9E	+1	158		942	1630
10E	+1	118		943	1230
11E	+1	133		944	1380
12E	+1	122		9:45	1270

J.P. LINE 25

14 5/E	+1	122		10:00	1270
13 5/E	+1	138		10:01	1430
12 5/E	+1	130		10:02	1350
11 5/E	+1	132		10:04	1370
10 5/E	+1	133		10:05	1380
9 5/E	+1	123		10:06	1280
8 5/E	+1	138		10:07	1430
7 5/E	+1	131		10:09	1420
6 5/E	+1	122		10:10	1270
5 5/E	+1	110		10:11	1150
4 5/E	+1	98		10:12	1030
3 5/E	+1	120		10:13	1250
2 5/E	+1	93	✓	10:14	980

I.P. CENTER 25

12 W - 11
12 W LINE 0 $\frac{N}{S}$
BASE

MAGNETIC SURVEY

C.T. Mases

8-31-65

CINE	NO	IP2 ³			
STA	POLARITY SECS	READ	DIURNAL	TIME	GAMMAS
1 S/P	+1	90	+50X	10:15	950
0 N/W	+1	94	↓	10:16	990
1 N/W	+1	87		10:20	920
2 N/W	+1	88		10:21	930
3 N/W	+1	93		10:22	980
4 N/W	+1	102		10:24	1070
5 N/W	+1	80		10:25	850
6 N/W	+1	87		10:26	920
7 N/W	+1	75		10:27	800
8 N/W	+1	77		10:28	820
9 N/W	+1	89		10:30	920
10 N/W	+1	85		10:33	900
11 N/W	+1	78		10:34	830
12 N/W	+1	73		10:35	780
13 N/W	+1	90		10:36	950
14 N/W	+1	75		10:37	800
0 N/S	+1	130	✓	10:52	1350

THE ANACONDA COMPANY

151 S. Tucson Blvd. — Room 221

TUCSON, ARIZONA 85716



Geological Department
Southwest Office

August 12, 1966

Heinrichs Geoexploration Company
808 W. Grant Rd.
Tucson, Arizona

Attention, Mr. Grover Heinrichs

Dear Grover:

We have been requested by Mr. John J. Chajka, representative for Mr. C. T. Moses, Jr., owner of a group of claims in Santa Cruz County, Arizona, that the enclosed data be returned to you. The following items are enclosed herewith:

- 1) Report of Geophysical Survey by Heinrichs Geoexploration Co.
- 2) " " " " " " " " "
- 3) with Magnetic Survey of Four Metals Area and
- 4) Geochemical Survey of Four Metals Area (scale: 1" = 500)
- 5) Induced Polarization Survey, Four Metals Area, (1" = 500')
- 6) Induced Polarization Traverse " " " (1" = 400')
- Sectional Data Sheet Line No. 1
- 7) " " " " " 2

Thank you for the loan of this data.

With best regards,

Sincerely,

G. A. Barber

GAB:je
cc Mr. John P. Hunt



December 16, 1965

Mr. C. T. Moses, Jr.
Moses Motor Company
Appomattox, Virginia

Re: Unpatented Mining Claims Sec. 1, 2, T245
R15E

Dear Mr. Moses:

I have discussed your problem with our men who worked in the field on your claims and they report that location pits or drill holes which are a requirement of both state and federal statutes for location work were not readily noticed on the ground. Our men were not assigned to determine the claims validity and only conducted geophysical and geochemical surveys. It is possible that the location pits were missed by our men because they were not specifically searching for them, but if the pits are not in and no drilling in lieu of location pits has been done, then the claims are not in good shape legally. It may be that Mr. Cheatham knows about the location pits and where they are located on the claims.

It is difficult to assess the value of your claims. We can say that from a magnetic and Induced Polarization standpoint, the area in the vicinity of stations 4 SE to 12 SE on I.P. Line 1, a slightly anomalous condition is indicated and further geophysical work is warranted in order to further outline the area of anomalism.

This anomalism certainly enhances the value of your claims at the moment from a prospecting view point and we think the claims are worth holding.

I suggest that you have us send a man down to the property to assess the problem of who is jumping the claims (the individual listed on the notices may be a company employee) and where the overlap exists. When we know these facts, we can plan counter measures to better perfect the legal status of the claims.

If you wish to maintain the claims we would recommend:

1. Putting up claim posts where old ones are missing.
2. Drilling a minimum of 10 feet on each claim to qualify under the new Arizona state statute in lieu of digging location pits.
3. Locating new claims, if necessary, to the east to cover the limits of the existing open ended geophysical anomalism.

The cost of the above program would be approximately \$2500.00, not including more claim locations and if the claim jumpers have located claims to the east, it is possible that they may be interested in a negotiated settlement. Of course, this would all be contingent on who it is and what shows up after our men checks out the validity of your existing claims.

Please inform us of your decision at your earliest convenience.

Very truly yours,

HEINRICHS GEOEXPLORATION COMPANY

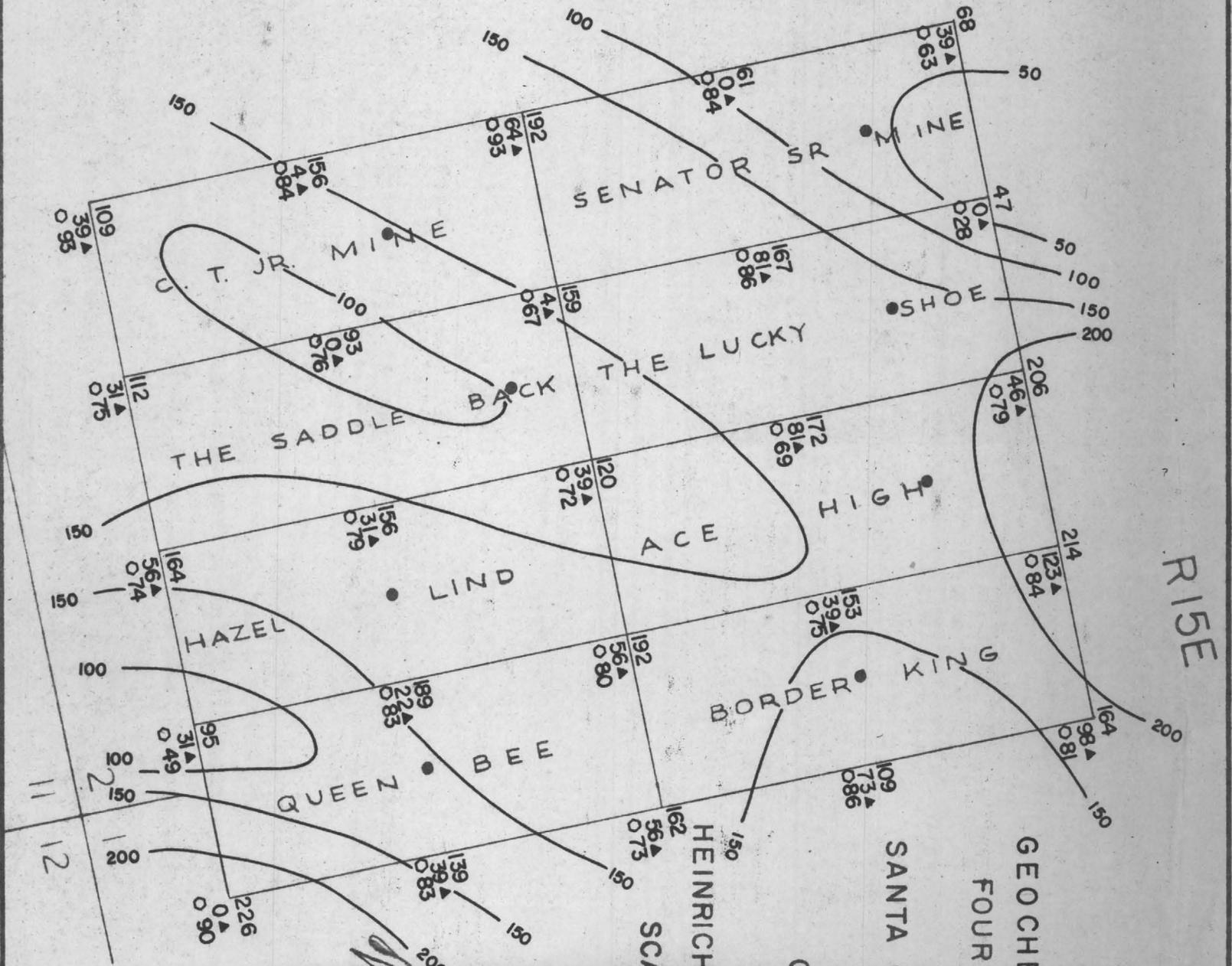
E. Grover Heinrichs
Vice President

EGH:jc

Rock 063 Page 391

T
24
S

GEOCHEMICAL VALUES
IN PARTS PER MILLION (PPM)
192 COPPER (CONTOURED)
39▲ LEAD
063 ZINC
● LOCATION MONUMENT



RISE

GEOCHEMICAL SURVEY
FOUR METALS AREA
PATAGONIA
SANTA CRUZ COUNTY, ARIZ.

FOR
C.T. MOSES JR.
BY

HEINRICH'S GEOEXPLORATION CO.
SCALE 1" = 500
AUG. 1965



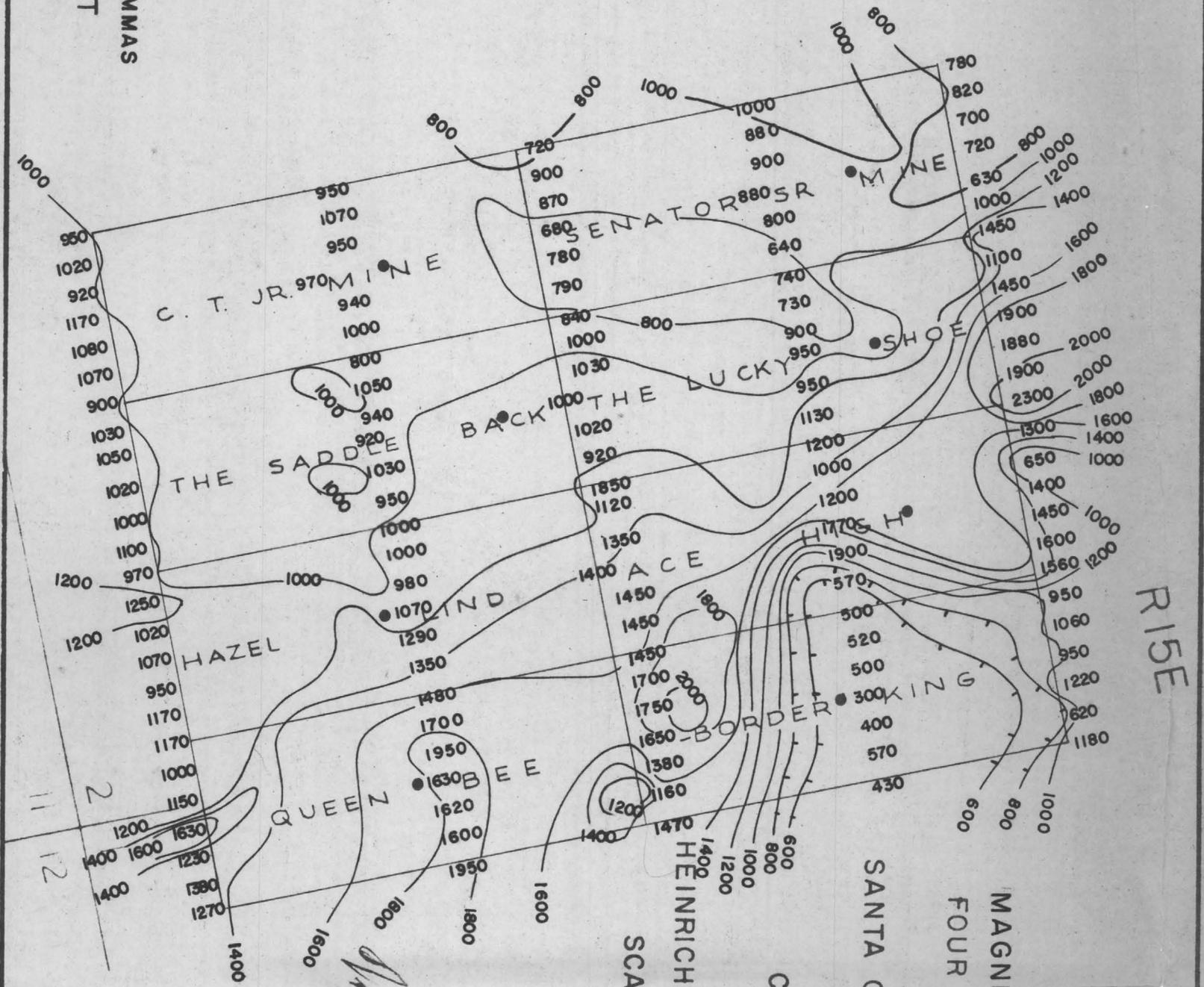
Walter E. Heinrichs



2

T
24
S

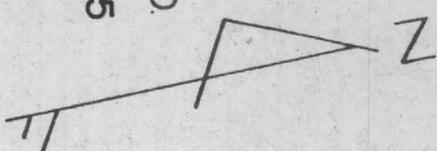
780 MAGNETIC VALUES
IN GAMMAS (R)
• LOCATION MONUMENT



RISE

MAGNETIC SURVEY
FOUR METALS AREA
PATAGONIA
SANTA CRUZ COUNTY, ARIZ.

FOR
C.T. MOSES JR.
BY
HEINRICH'S GEOEXPLORATION CO.
SCALE 1"=500 AUG. 1965



REPORT OF GEOPHYSICAL SURVEY

This is a report of a geophysical survey of the claims hereinafter described, done as a part of the requirements for annual labor for the period from September 1, 1963 to September 1, 1964 and is made as of 16 September 1964.

These claims consist of a contiguous group situated in Sections 1 and 2, T 24 S, R 15 E, G & S R B & M in the Patagonia - Duquesne Mining District, Santa Cruz County, Arizona. The claims are owned by Mr. C. T. Moses, Jr.; Mr. C. T. Moses, Sr.; and Mr. F. R. Cheatham and the work was performed by the undersigned at the request of and at the expense of said owners.

The claims are more particularly described on the claim notices which are recorded in the records of Santa Cruz County, Arizona as follows:

NAME OF CLAIM	DOCKET NO.	PAGE NO.
QUEEN BEE	30	.191
BORDER KING	30	192
HAZEL LIND	34	32
ACE HIGH	34	33
THE SADDLE BACK	34	170
THE LUCKY SHOE	34	169
C. T. JR. MINE	34	171
SENATOR SR. MINE	34	168

The work was done on these claims and was done for the benefit of the group as a whole. The geophysical work done consists of two Induced Polarization profiles. The location of the work performed in relation to points of discovery and boundaries of the claims and the nature and extent thereof is shown on a plat identified as: "Induced Polarization Survey", as well as two plats identified as "Sectional Data Sheet, Induced Polarization Traverse", one Line No. 1, one Line No. 2" and all three plats are further identified as "Four Metals Area, Santa Cruz County, Arizona, Heinrichs Geoexploration Company, August 1964; for C. T. Moses, Jr.", and are attached hereto by this reference and are made a part hereof.

The cost of the geophysical work done on this group of claims during this assessment period was in excess of eight hundred dollars(\$800.00).

The basic findings from the geophysical work are as follows:

Line No. 1 (run diagonally northwesterly - southwesterly across the four northernmost of the said claims) was surveyed on 400 ft. spacings to detect sulfides down to 600 ft. below surface. Anomalous frequency effects were found from 0 to 14SE and with very weak effects from 0 to 4SE, weak effects from 4SE to 6SE and moderate effects of 6SE to 14SE and perhaps farther. These anomalous effects could indicate sulfides of from 0.3 to 2.5 percent by volume and could therefore be of economic significance if not all pyrite. The resistivities show a higher resistivity zone from 2SE to 6SE than the rest of the line. The anomalous zone begins within 100 ft. of the surface and may extend deeper than 400 ft. below surface.

Line No. 2 is parallel to and about 1,500 ft. south of Line 1 to test the southernmost four said claims. No anomalous effects were noticed indicating perhaps 600 ft. thickness of barren material. The resistivities decrease, in general, to the northwest with a possible contact of lower and higher resistive material near 2 SE.

All of this geophysical work was done under the direction of Mr. Walter E. Heinrichs, Jr., President & General Manager of Heinrichs Geoexploration Company, Tucson, Arizona at the request of said owners. The persons who worked on said survey, in addition to said Mr. Walter E. Heinrichs, Jr. are as follows: E. Grover Heinrichs, Peter Beuden, John Beeler, Dan Anderson and Chris Ludwig, all employees of Heinrichs Geoexploration Company.

Mr. Walter E. Heinrichs, Jr., is a registered professional mining engineer, No. 2447, State of Arizona, with many years of experience in making geophysical surveys, and all of the other persons performing said work are either graduate geophysical engineers, geologists, technicians or helpers.


Walter E. Heinrichs, Jr.

STATE OF ARIZONA)
) ss.
COUNTY OF SANTA CRUZ)

WALTER E. HEINRICHS, JR., being first duly sworn deposes and says:

That he is the President & General Manager of Heinrichs Geoexploration Company of Tucson, Arizona; that he has read

the foregoing report of Geophysical Survey, knows the contents thereof, and that the same is true.

Walter E. Heinrichs, Jr.
Walter E. Heinrichs, Jr.

Subscribed and sworn to before me this 17th day of September 1964.

Walter E. Heinrichs
Notary Public

My Commission expires: July 20, 1965

AFFIDAVIT OF LABOR PERFORMED

AND IMPROVEMENTS MADE

Block 063 Page 386

STATE OF ARIZONA)
) ss.
COUNTY OF SANTA CRUZ)

The undersigned, WALTER E. HEINRICHS, JR., being duly sworn deposes and says:

That he is a citizen of the United States of America and is more than twenty-one years of age, and is a resident of Tucson, Pima County, State of Arizona: that he is a Registered Professional Mining Engineer, No. 2447, in the State of Arizona and is personally acquainted with the mining claims hereinafter described which are situated in the Patagonia-Duquesne Mining District, Santa Cruz County, Arizona, the location notices of which are recorded in the office of the County Recorder of said Santa Cruz County, Arizona in the docket and pages hereinafter set forth. That between September 1, 1964 and September 1, 1965, at least \$800.00 (eight hundred dollars) worth of work and improvements were done and performed upon and for the benefit of said claims as a group, not including the location work of said claims. Said work performed and improvements made were for the benefit of all the claims hereinafter described and for the purpose of complying with the laws of the United States of America pertaining to annual assessment work. Said claims are contiguous. Such work was performed and improvements made by Heinrichs Geoexploration Company of Tucson, Arizona at the request and expense of Mr. (Charles) C. T. Moses, Jr. of Appomattox, Virginia, a part owner of said claims and authorized agent for the other part owners of the claims, namely: Mr. C. T. Moses, Sr., of Appomattox, Virginia and Mr. Frank R. Cheatham of Dinwoody St., Lynchburgh, Virginia, formerly of P. O. Box 100, Nogales, Arizona, for the purpose of complying with the laws of the United States of America pertaining to assessment or annual work, and Walter E. Heinrichs, Jr., E. Grover Heinrichs, Rex Montierth, David Jones and Chris S. Ludwig, all employees of Heinrichs Geoexploration Company, P. O. Box 5671, Tucson, Arizona were the men who labored on said claims and did work and improvements, the same being as follows, to-wit:

Geophysical surveys of the property were made and the report of these are attached herewith to be filed in the County Recorder's Office, Santa Cruz County, Arizona. The mining claims herein referred to and for the benefit of which said labor was performed and improvements made are specifically described below as follows:

Recorded in the

NAME OF CLAIM

RECORDS OF SANTA CRUZ COUNTY, ARIZONA

	<u>Docket</u>	<u>Page</u>
QUEEN BEE	30	191
BORDER KING	30	192
HAZEL LIND	34	32
ACE HIGH	34	33
THE SADDLE BACK	34	170
THE LUCKY SHOE	34	169
C. T. JR. MINE	34	171
SENATOR SR. MINE	34	168

Said labor performed and improvements made as heretofore set forth is and was for the purpose of satisfying the work requirements prescribed by the United States Mining Laws for the period from September 1, 1964 to September 1, 1965 and this affidavit is made pursuant to statutes of the State of Arizona.

Walter E. Heinrichs, Jr.
Walter E. Heinrichs, Jr.

Subscribed and sworn to before me this 28th day of September 1965.

Patricia M. Routh
Notary Public

My commission expires: Nov 5, 1965

significant change in the subsurface rock type. *Block 063 Page 389*

B. The Geochemical Survey appears to indicate trends to the northeast and southwest and does not follow the pattern of the magnetic trends. Two anomalous zones are indicated. One zone on the north edge of the ACE HIGH and BORDER KING is high in all metal determinations, i.e. copper, lead, and zinc. Zone two at the southeast corner of the QUEEN BEE is high in copper and zinc only, lead being nil. The background is generally high in copper, lead, and zinc over most of the claim group.

All of this geophysical work was done under the direction of Mr. Walter E. Heinrichs, Jr., President & General Manager of Heinrichs Geosurveying Company, Tucson, Arizona at the request of said owners. The persons who worked on said survey, in addition to said Mr. Walter E. Heinrichs, Jr. are as follows: E. Grover Heinrichs, Rex Montierth, David Jones and Chris Ludwig, all employees of Heinrichs Geosurveying Company.

Mr. Walter E. Heinrichs, Jr., is a registered professional mining engineer, No. 2447, State of Arizona, with many years of experience in making geophysical surveys, and all of the other persons performing said work are either graduate geophysical engineers, geologists, technicians or helpers.

ss W.E. Heinrichs Jr

Walter E. Heinrichs, Jr.

STATE OF ARIZONA)
) ss.
COUNTY OF SANTA CRUZ)

WALTER E. HEINRICHS, JR., being first duly sworn deposes and says:

That he is the President & General Manager of Heinrichs Geosurveying Company of Tucson, Arizona; that he has read the foregoing report of Geophysical Survey, knows the contents thereof, and that the same is true.

ss W.E. Heinrichs Jr

Walter E. Heinrichs, Jr.

Subscribed and sworn to before me this 28th day of September 1965.

Patricia M. Routh

Notary Public

My commission expires: Nov 5, 1965

REPORT OF GEOPHYSICAL SURVEY

Docket 063 Page 358

This is a report of a geophysical survey of the claims hereinafter described, done as a part of the requirements for annual labor for the period from September 1, 1964 to September 1, 1965 and is made as of 28 September 1965.

These claims consist of a contiguous group situated in Sections 1 and 2, T 24 S, R 15 E, G & S R B & M in the Patagonia-Duquesne Mining District, Santa Cruz County, Arizona. The claims are owned by Mr. C. T. Moses, Jr.; Mr. C. T. Moses, Sr.; and Mr. F. R. Cheatham, and the work was performed by the undersigned at the request of and at the expense of said owners.

The claims are more particularly described on the claim notices which are recorded in the records of Santa Cruz County, Arizona as follows:

<u>NAME OF CLAIM</u>	<u>DOCKET NO.</u>	<u>PAGE NO.</u>
QUEEN BEE	30	191
BORDER KING	30	192
HAZEL LIND	34	32
ACE HIGH	34	33
THE SADDLE BACK	34	170
THE LUCKY SHOE	34	169
C. T. JR. MINE	34	171
SENATOR SR. MINE	34	168

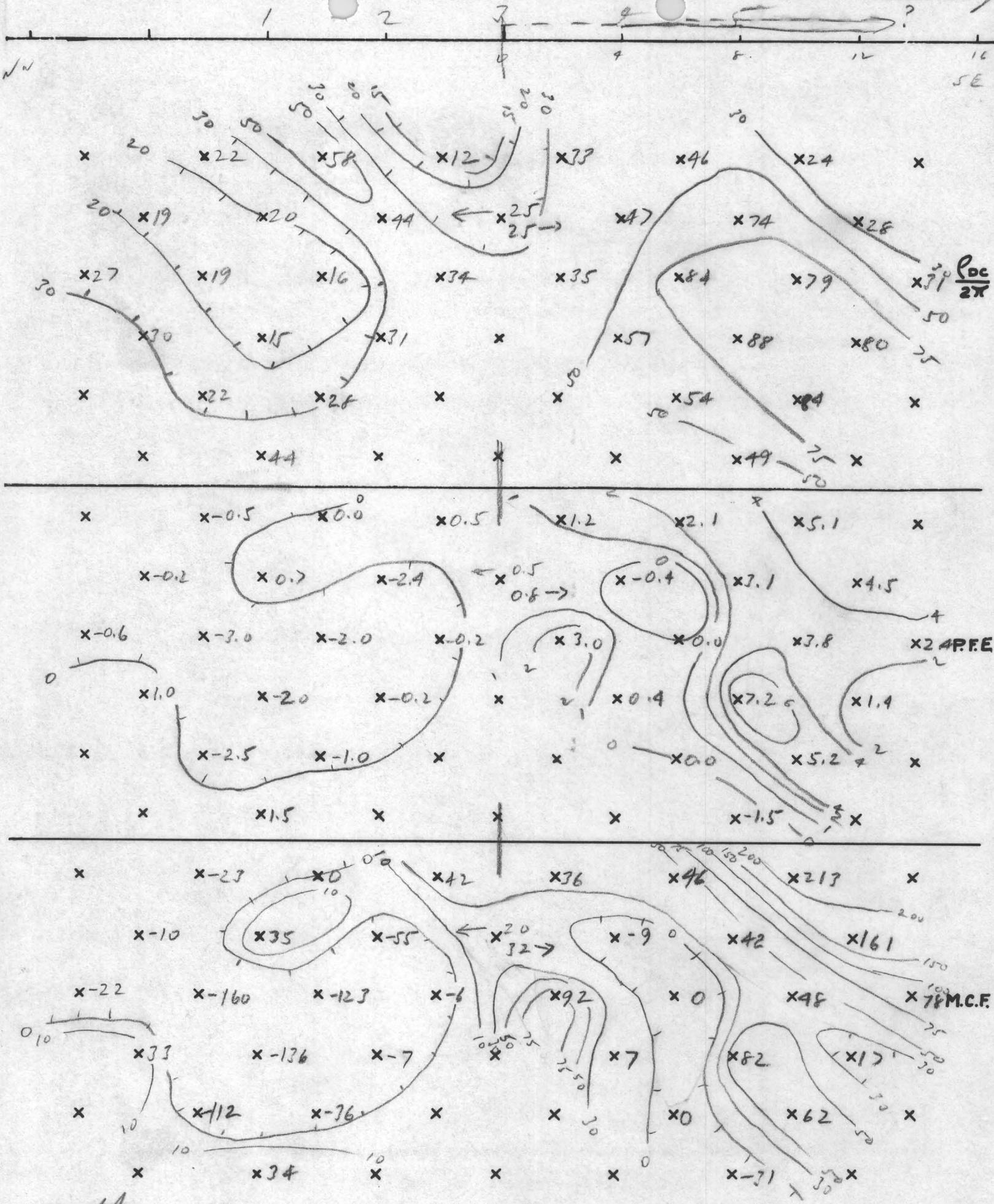
The work was done on these claims and was done for the benefit of the group as a whole. The geophysical work done consists of five (5) Magnetic Profiles and five (5) Geochemical Profiles. The location of the work performed in relation to points of discovery and boundaries of the claims and the nature and extent thereof is shown on two plats identified as: "Magnetic Survey" and "Geochemical Survey", and the two plats are further identified as "Four Metals Area, Santa Cruz County, Arizona, Heinrichs Geoexploration Company, August 1965; for C. T. Moses, Jr.", and are attached hereto by this reference and are made a part hereof.

The cost of the geophysical work done on this group of claims during this assessment period was in excess of eight hundred dollars (\$800.00).

The basic findings from the geophysical work are as follows:

A. The Magnetic Survey shows a possible fault trending northwest and southeast located at approximately the northeast corner of the Lucky Shoe and extending off the claims to the southeast at the south end center of the Queen Bee. The lower magnetic values to the east reflect the deepening alluvial cover and the broad magnetic low centered in the Border King area and flanked on the south by two small magnetic highs appears to indicate

HEINRICHS GEOEX. INDUCED POLARIZATION SECTIONAL DATA PLOT, LOOKING *North*



AREA *Moses Nogales Area* LINE *1* a = ' SCALE: DATE:

RECEIPT

VALLEY NATIONAL BANK

Oracle Grant P.O.Box 5734 Tucson, ARIZONA

(OFFICE)

(CITY)

PLEASE REFER TO

OUR NO.

OC 51 - 181332

Office No.

WE ENCLOSE FOR COLLECTION AND

CREDIT

REMITTANCE

OUR DATE 9-29-65

DESCRIPTION AND PAYER	DUE DATE	AMOUNT
Sight draft on you by C.T. Moses, Jr. payable to Heinrichs Geoexplorationsight Co. dated 9-29-65	sight	850.00
SPECIAL INSTRUCTIONS Please Air Mail Reply	<p style="text-align: center;">THIS ITEM TAKEN FOR COLLECTION ONLY NOT SUBJECT TO CHECK</p> <p>This bank in receiving checks, drafts, notes, contracts, etc., for collection acts only as your agent, and, beyond carefulness in selecting agents at other points, (who may or may not be the payer thereof) and in forwarding to them, assumes no responsibilities, until final actual payment is received by it. The bank shall in no way be responsible for endorsements heretofore made on notes or contracts and shall be guided in making collections entirely by statements contained above. It is further stipulated and agreed, that the bank, as depository of above described collection, will act only as receiver of money voluntarily paid thereon, which will be credited or remitted to depositor or in the event of non-payment it may be returned to the depositor by mail or otherwise and will assume no duty in respect to notice, demand, protest, notice of protest, suit, action, probate or bankruptcy claim, statutes of limitations, insurance, taxes, assessments or liens. NO PROTEST.</p>	
CORRESPONDENT BANK ACC'T — OUR NO. Farmers National Bank Appomattox, Va.		

Heinrichs
 Geoporation
 Co. 9-23-65
 Sample No
 "Moses" Sample

	Cu	Cu	Pb	Pb	Pb	Zn	Zn	Zn
Ab-in	Ab-in	ppm in soil	Ab-in	Ab-in	ppm in soil	Ab-in	Ab-in	ppm in soil
Fusion Blank	.1	.0004	1.2	.0052	99	1.7	.0074	12
1	4.1	.0182	109	1.6	.0070	134	14.3	.0670
2	4.2	.0182	112	1.5	.0066	131	12.0	.0555
3	6.1	.0273	144	1.8	.0079	151	11.9	.0550
4	3.6	.0159	95	1.5	.0066	121	8.6	.0391
5	8.3	.0376	224	1.9	.0039	75	14.0	.0655
6	5.8	.0259	156	1.2	.0052	99	13.2	.0615
7	3.5	.0155	93	1.0	.0044	84	12.2	.0505
8	5.8	.0259	156	1.5	.0066	126	12.5	.0580
9	7.0	.0315	189	1.4	.0061	117	13.1	.0610
10	5.2	.0232	139	1.6	.0070	133	13.0	.0605
11	7.1	.0320	192	1.9	.0083	159	14.3	.0670
12	5.9	.0264	159	1.2	.0052	99	11.0	.0506
13	4.5	.0200	120	1.6	.0070	134	11.6	.0535
14	7.1	.0320	192	1.8	.0079	151	12.7	.0590
15	6.0	.0269	162	1.8	.0079	151	11.8	.0545
16	2.3	.0101	61	1.1	.0048	92	13.2	.0615
17	6.2	.0278	167	2.1	.0092	176	13.4	.0625
18	6.4	.0287	172	2.1	.0092	176	11.2	.0516
19	5.7	.0255	153	1.6	.0070	134	12.1	.0560
20	4.1	.0182	109	2.0	.0088	168	13.4	.0625
21	2.6	.0114	68	1.6	.0070	134	10.4	.0477
22	1.8	.0079	47	1.7	.0031	59	5.8	.0259
23	7.6	.0343	206	1.7	.0074	141	12.5	.0580
24	7.9	.0357	214	2.6	.0114	218	13.2	.0615
25	6.1	.0273	164	2.3	.0101	193	12.8	.0595

Standards

Standards

Standards

ppm	1.05	10.45	20.90	1.0	10.0	25.0	1.50	2.50	5.00	10.00
Ab-in	4.3	30.9	51.6	1.2	11.3	26.1	7.4	29.8	48.8	75.0
Ab-in	.0191	.1605	.3152	.0052	.0521	.1314	.0334	1537	2907	6021
FACTOR	5497	6511	6631	1923	1919	1903	1497	1627	1720	1661
	6004				1911		1562		1691	

LINE
 25 12W
 " 6W
 25 OEW
 6E
 12E
 15 12W
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 OEW
 6E
 12E

HEINRICHS GEOEXPLORATION COMPANY
808 W. GRAND ROAD - P. O. BOX 5671 - TUCSON, ARIZONA 85703
Area Code 602 Phone ~~623-4202~~ or ~~623-4561~~ 623-0578

M E S S A G E

R E P L Y

TO

MR. C. T. MOSES, JR.
MOSES MOTOR CO.
APPOMATTOX, VIRGINIA

DATE

DATE

OCTOBER 4, 1965

ENCLOSED PLEASE FIND RECORDED
COPIES OF AFFIDAVIT OF LABOR.

WE HAD THOUGHT THE COPY WAS MAILED,
BUT FIND IT WAS HELD UP FOR THE
RECORDED COPIES.

Very truly yours,

HEINRICHS GEOEX CO.

E. Grover Heinrichs

SIGNED

SIGNED

FORM AVAILABLE FROM GRAYARC CO., INC.
882 THIRD AVE., B'KLYN 32, N. Y.

DETACH THIS COPY - RETAIN FOR ANSWER. SEND WHITE AND PINK COPIES WITH CARBONS INTACT.

Chicago Pneumatic

MEMORANDUM

5000 U. S. HIGHWAY 81 SOUTH

(P. O. BOX 1990)

FORT WORTH, TEXAS

817 WALnut 3-8213

Moses,

BLACK
OR
Byers

L. R. Ritter

Late Claim B.V. 156

Nov. 27, 1965

if
Review file

Carbid opinion

Patented claim



write letter

HEINRICHS GEOEXPLORATION COMPANY
808 W. GRANT ROAD - P. O. BOX 5671 - TUCSON, ARIZONA 85703
Area Code 602 Phone 622-4202 or 623-4561

M E S S A G E

R E P L Y

TO **SANTA CRUZ COUNTY RECORDER**
NOGALES, ARIZONA

DATE

DATE **SEPTEMBER 29, 1965**

**ENCLOSED PLEASE FIND OUR CHECK
NUMBER 2585, IN THE AMOUNT OF \$5.50
TO COVER COST OF RECORDING FEES
FOR THE ENCLOSED SIX PAGE AFFIDAVIT
OF LABOR.**

**IF THIS AMOUNT IS NOT CORRECT,
PLEASE ADVISE.**

THANK YOU.

HEINRICHS GEOEXPLORATION COMPANY

SIGNED

SIGNED

HEINRICHS GEOEXPLORATION COMPANY
808 W. GRANT ROAD - P. O. BOX 5671 - TUCSON, ARIZONA 85703
Area Code 602 Phone 622-4202 or 623-4561

M E S S A G E

R E P L Y

TO MR. C. T. MOSES JR.

MOSES MOTOR COMPANY
APPOMATTOX, VIRGINIA

DATE

DATE SEPTEMBER 29, 1965

ENCLOSED PLEASE FIND COPY OF AFFIDAVIT
OF LABOR SENT THIS DATE TO THE SANTA
CRUZ COUNTY RECORDER. ALSO, WE ARE
SENDING YOU THE AFFIDAVIT FOR 1965 WHICH
SOMEHOW NEVER WAS SENT TO YOU.

BILLING IS ENCLOSED, FOR WHICH WE HAVE
CONTACTED OUR BANK FOR A BANK DRAFT.

AS SOON ~~THE~~ THE AFFIDAVIT IS RETURNED
TO US, WE WILL CONFORM OUR COPY AND
SEND IT ON TO YOU.

HEINRICHS GEOEXPLORATION CO.

SIGNED

SIGNED

HEINRICHS GEOEXPLORATION COMPANY
808 W. GRANT ROAD - P. O. BOX 5671 - TUCSON, ARIZONA 85703
Area Code 602 Phone 622-4202 or 623-4561

M E S S A G E

R E P L Y

TO Mr. C. T. Moses
C. T. Moses Motor Co.
Appomatox, Virginia

DATE

DATE September 13, 1965

Dear Mr. Moses:

We wish to advise you that the field work has been done on your claims. We are presently working on the geochem samples. A report will be written upon completion of this phase of the work and affidavits filed as soon as possible.

Very truly yours,

HEINRICHS GEOEXPLORATION CO.



E. Grover Heinrichs, Vice Pres.

SIGNED

SIGNED

RECEIPT FOR CERTIFIED MAIL—20¢

No. 108152

TO <i>Mr. C. J. Mases Jr</i>		POSTMARK OR DATE <i>10/4/65</i> <i>29/65</i>
STREET AND NO. <i>Mases Motor Co</i>		
CITY, STATE, AND ZIP CODE <i>Appomattox, Virginia</i>		
<i>If you want a return receipt, check which</i> <input checked="" type="checkbox"/> 10¢ shows to whom and when delivered	<input type="checkbox"/> 35¢ shows to whom, when, and address where delivered	<i>If you want delivery only to addressee, check here</i> <input type="checkbox"/> 50¢ fee
FEEES ADDITIONAL TO 20¢ FEE		

POD Form 3800
July 1963

**NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL**

(See other side)

1. Stick postage stamps to your article to pay:

BASIC CHARGES

Certified fee—20¢

Postage (first-class or airmail)

OPTIONAL SERVICES

Return receipt (10¢ or 35¢)

Deliver to addressee only—50¢

Special delivery

2. If you want this receipt postmarked, stick the gummed stub on the left portion of the address side of the article, *leaving the receipt attached*, and present the article at a post office service window or hand it to your rural carrier. (*no extra charge*)
3. If you do not want this receipt postmarked, stick the gummed stub on the left portion of the address side of the article, detach and retain the receipt, and mail the article.
4. If you want a return receipt, write the certified-mail number and your name and address on a return receipt card, Form 3811, and attach it to the back of the article by means of the gummed ends. Endorse front of article **RETURN RECEIPT REQUESTED.** (*Fees—10¢ or 35¢.*)
5. If you want the article delivered only to the addressee, endorse it on the front **DELIVER TO ADDRESSEE ONLY.** (*Fee—50¢.*) Place the same endorsement in line 2 of return receipt card.
6. Save this receipt and present it if you make inquiry.

POST OFFICE DEPARTMENT
OFFICIAL BUSINESS

PENALTY FOR PRIVATE USE TO AVOID
PAYMENT OF POSTAGE, \$300

APPROXIMATELY
OCT 6
1965
AM
24522
V.A.



INSTRUCTIONS: Fill in items below and complete instructions on other side, if applicable. Moisten gummed ends, attach and hold firmly to back of article. Print on front of article RETURN RECEIPT REQUESTED.

← **RETURN TO**

POD Form 3811 Sep. 1963

REGISTERED NO.	NAME OF SENDER HEINRICHS GEOEXPLORATION COMPANY
CERTIFIED NO. 108152	STREET AND NO. OR P. O. BOX 808 W. Grant Road • P. O. Box 5671 Tucson, Arizona 85703
INSURED	CITY, STATE, AND ZIP CODE Phone (Area 602) 622-578

INSTRUCTIONS TO DELIVERING EMPLOYEE

Deliver *ONLY* to addressee

Show address where delivered

(Additional charges required for these services)

RECEIPT

Received the numbered article described on other side.

SIGNATURE OR NAME OF ADDRESSEE *(must always be filled in)*

E. J. Yarnall

SIGNATURE OF ADDRESSEE'S AGENT, IF ANY

M. Sullivan

DATE DELIVERED

10-6-65

SHOW WHERE DELIVERED *(only if requested)*



Conformed Copy

Dock 058-
page 406

AFFIDAVIT OF LABOR PERFORMED

AND IMPROVEMENTS MADE

STATE OF ARIZONA)
) ss.
COUNTY OF SANTA CRUZ)

The undersigned, WALTER E. HEINRICHS, JR., being duly sworn deposes and says:

That he is a citizen of the United States of America and is more than twenty-one years of age, and is a resident of Tucson, Pima County, State of Arizona; that he is a Registered Professional Mining Engineer, No. 2447, in the State of Arizona and is personally acquainted with the mining claims hereinafter described which are situated in the Patagonia - Duquesne Mining District, Santa Cruz County, Arizona, the location notices of which are recorded in the office of the County Recorder of said Santa Cruz County, Arizona in the docket and pages hereinafter set forth. That between September 1, 1963 and September 1, 1964, at least \$800.00 (eight hundred dollars) worth of work and improvements were done and performed upon and for the benefit of said claims as a group, not including the location work of said claims. Said work performed and improvements made were for the benefit of all the claims hereinafter described and for the purpose of complying with the laws of the United States of America pertaining to annual assessment work. Said claims are contiguous. Such work was performed and improvements made by Heinrichs Geoexploration Company of Tucson, Arizona at the request and expense of: Mr. (Charles) C. T. Moses, Jr. of Appomattox, Virginia, a part owner of said claims and authorized agent for the other part owners of the claims, namely: Mr. C. T. Moses, Sr., of Appomattox, Virginia and Mr. Frank R. Cheatham of Dinwoody St., Lynchburgh, Virginia, formerly of P. O. Box 100, Nogales, Arizona, for the purpose of complying with the laws of the United States of America pertaining to assessment or annual work and Walter E. Heinrichs, Jr., E. Grover Heinrichs, Peter Beuden, John Beeler, Dan Anderson and Chris S. Ludwig, all employees of Heinrichs Geoexploration Company, P. O. Box 5671, Tucson, Arizona were the men who labored on said claims and did work and improvements, the same being as follows, to -wit:

Geophysical surveys of the property were made and the report of these are attached herewith to be filed in the County Recorder's Office, Santa Cruz County, Arizona. The

Dock 055 Page 409
" " Page 410

mining claims herein referred to and for the benefit of which said labor was performed and improvements made are specifically described below as follows:

<u>NAME OF CLAIM</u>	<u>Recorded in the</u> <u>RECORDS OF SANTA CRUZ COUNTY, ARIZONA</u>	
	<u>Docket</u>	<u>Page</u>
QUEEN BEE	30	191
BORDER KING	30	192
HAZEL LIND	34	32
ACE HIGH	34	33
THE SADDLE BACK	34	170
THE LUCKY SHOE	34	169
C. T. JR. MINE	34	171
SENATOR SR. MINE	34	168

Said labor performed and improvements made as here-
to fore set forth is and was for the purpose of satisfying
the work requirements prescribed by the United States Mining
Laws for the period from September 1, 1963 to September 1,
1964 and this afficavit is made pursuant to statutes of the
State of Arizona.

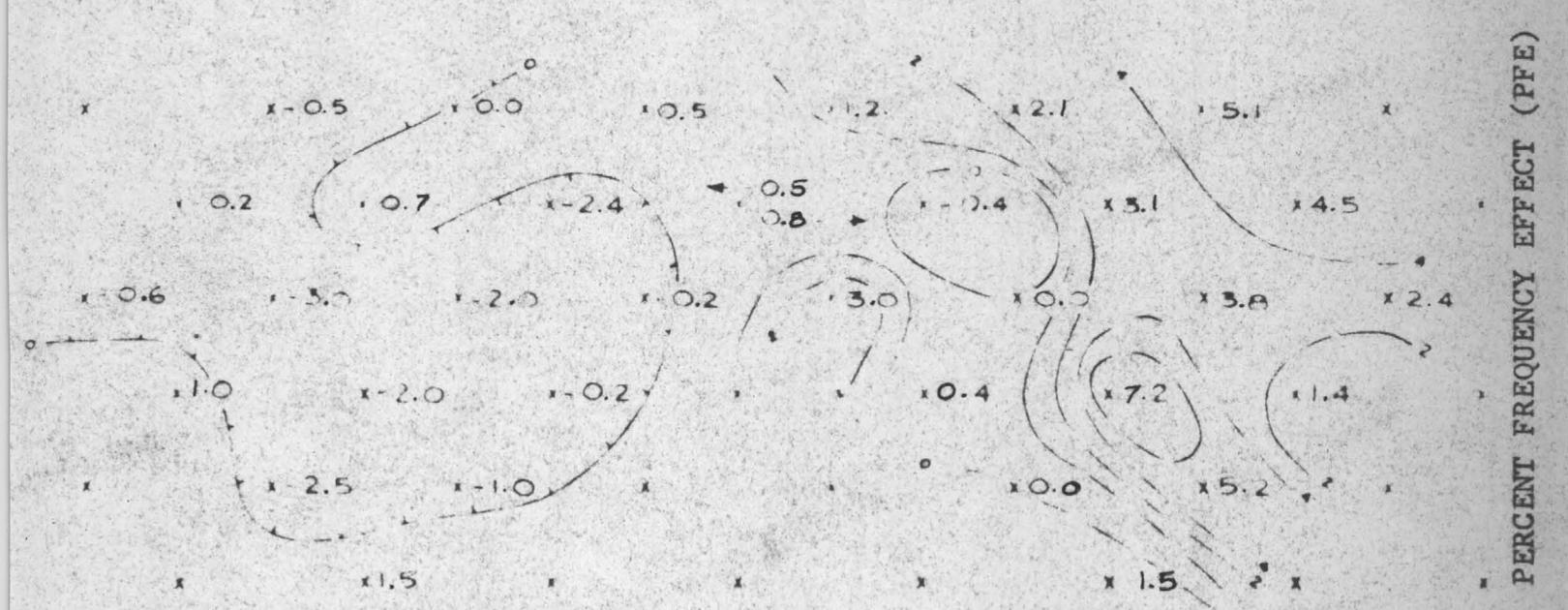
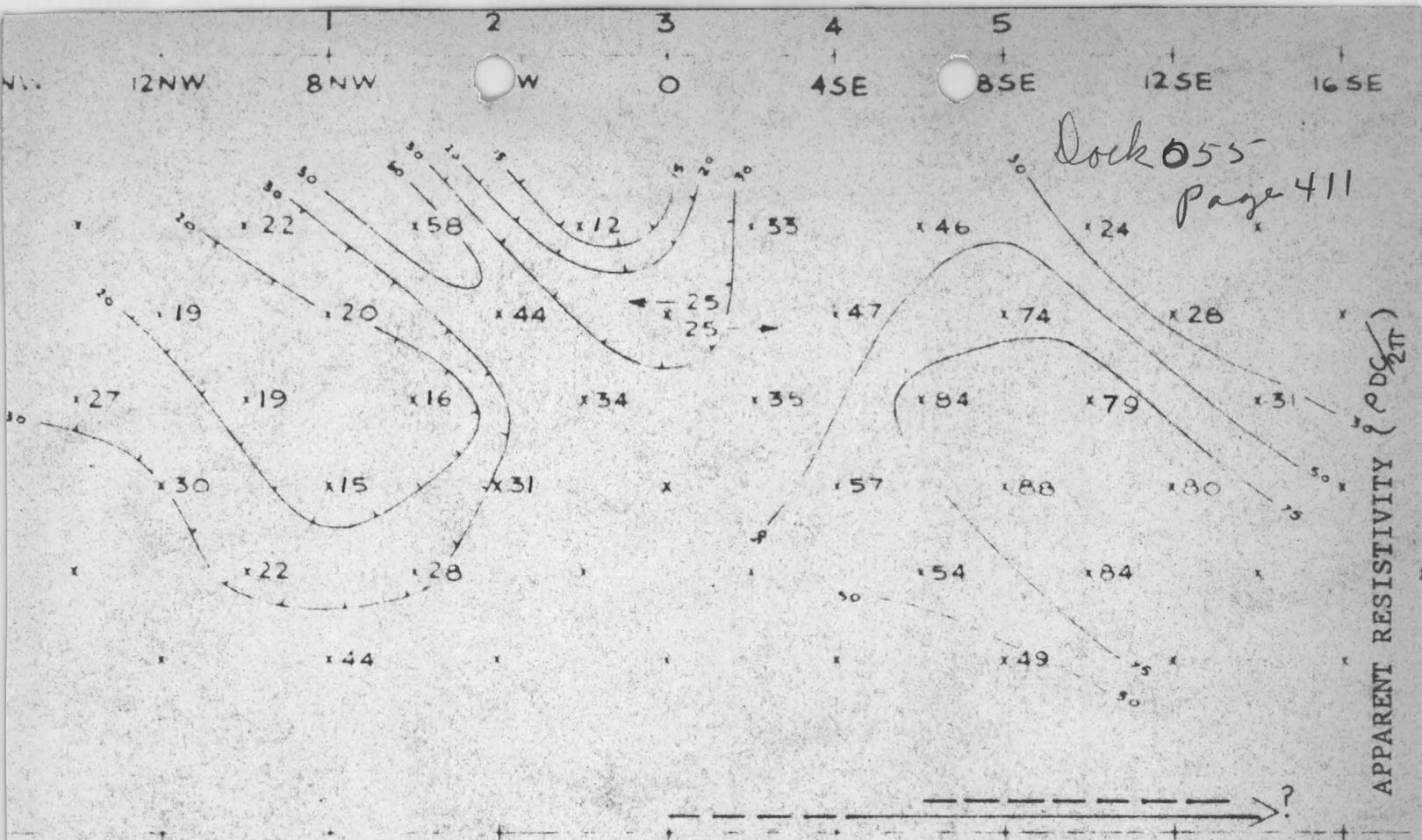
W. E. Heinrichs, Jr.
Walter E. Heinrichs, Jr.

Subscribed and sworn to before me this 17th
day of September, 1964.

M. Jean Heinrichs
Notary Public

My commission expires July 20, 1965

9251
County of Santa Cruz
Filed @ request of E. Grover Heinrichs Sept 18, 1964
Docket no 55 page 406



Looking: Northeasterly

FOUR METALS AREA
Santa Cruz County, Arizona

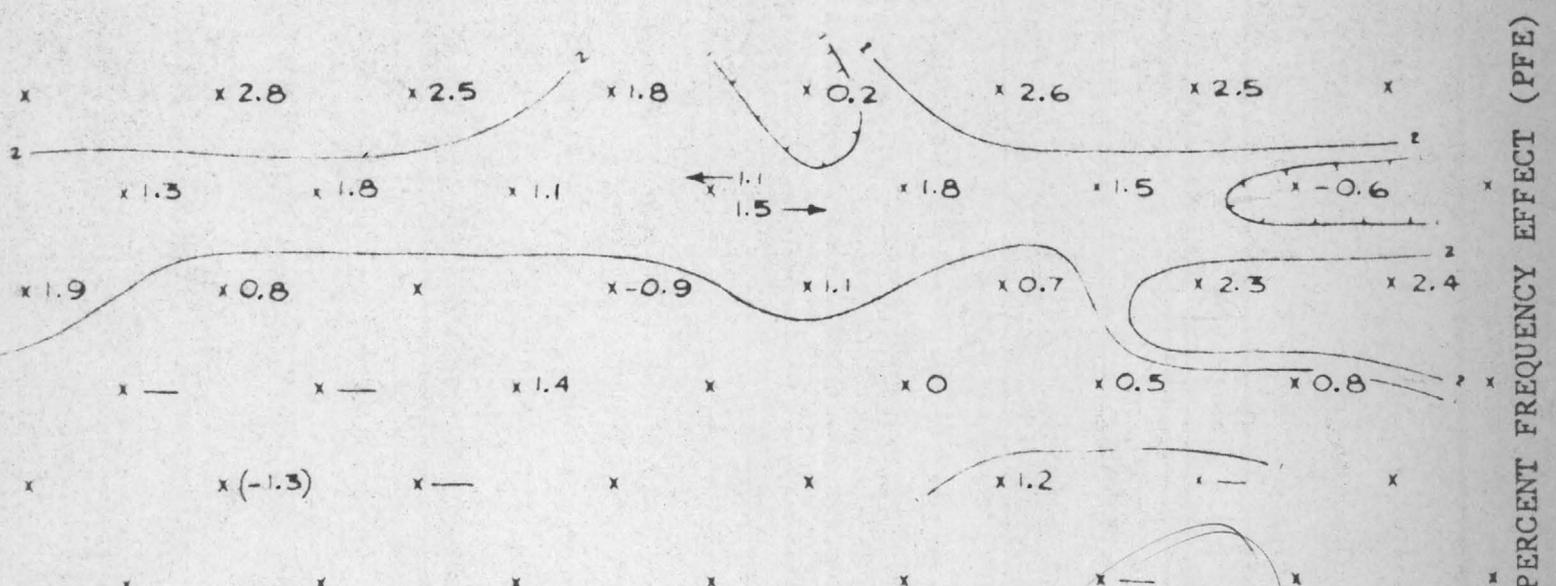
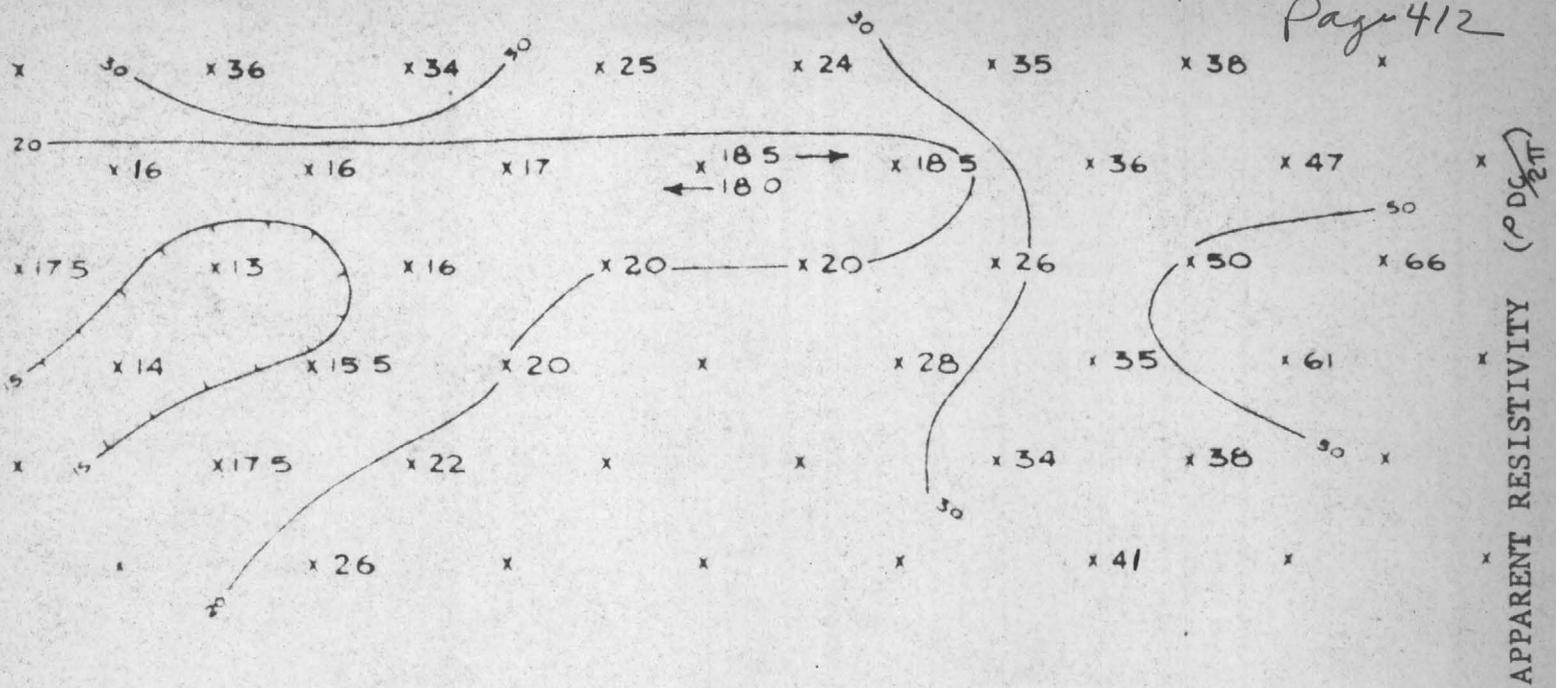
SECTIONAL DATA SHEET
Line No. 1
INDUCED POLARIZATION TRAVERSE

by
HEINRICHS GEOEXPLORATION COMPANY
Scale: 1" = 400' Date: August 1964

FOR

C. T. MOSES, JR

*Doc 055
Page 412*



Looking Northeasterly

Seal

FOUR METALS AREA
Santa Cruz County, Arizona

SECTIONAL DATA SHEET
Line No. 2
INDUCED POLARIZATION TRAVERSE

by
HEINRICHS GEOEXPLORATION COMPANY

Scale: 1" = 400' Date: August 1964

FOR

C. T. MOSES, JR.

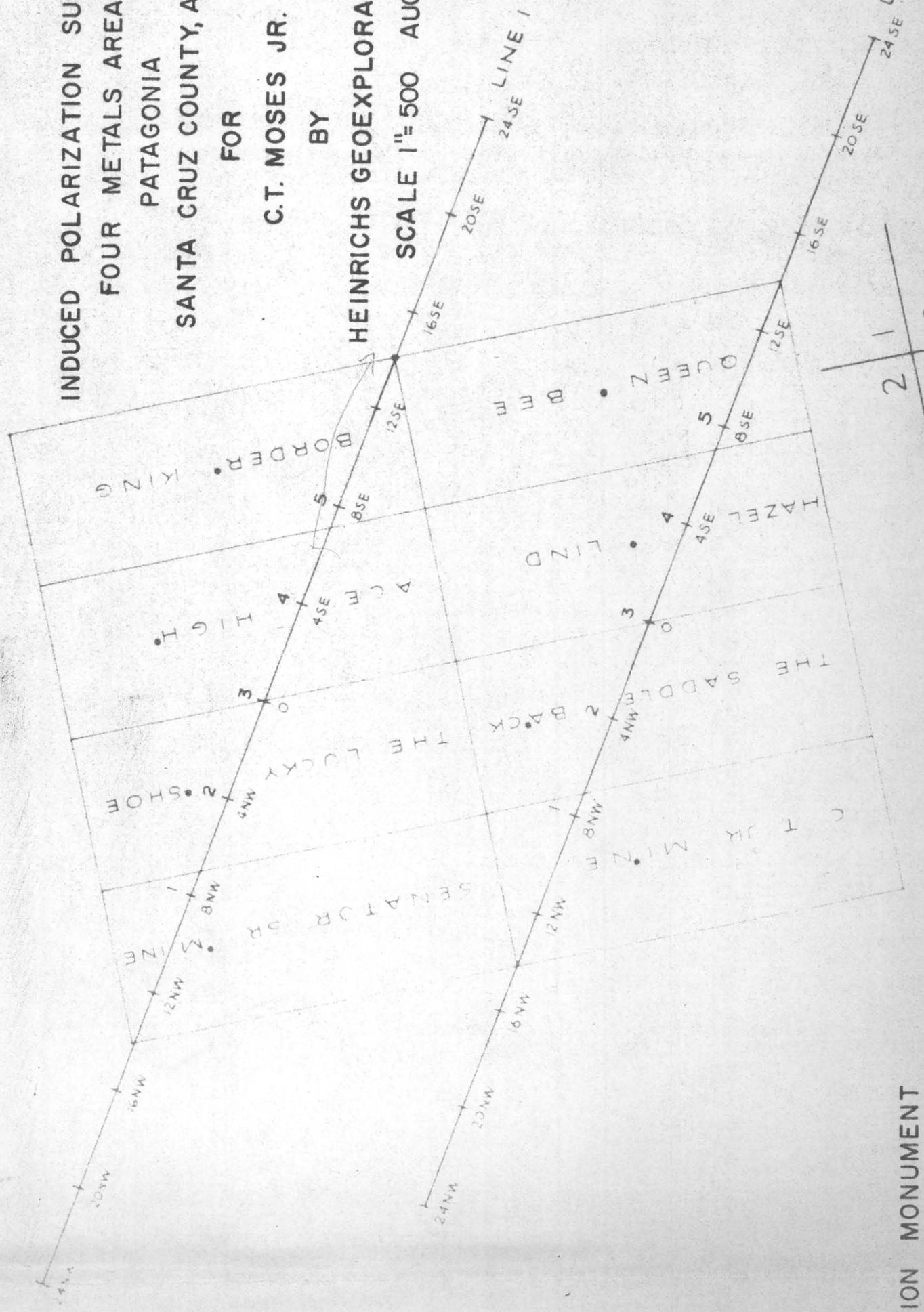
R15E

INDUCED POLARIZATION SURVEY
FOUR METALS AREA
PATAGONIA
SANTA CRUZ COUNTY, ARIZ.

FOR
C.T. MOSES JR.
BY
HEINRICHS GEOEXPLORATION CO.

SCALE 1" = 500 AUG. 1964

Doc 056-
Page 413



2 1
11 12

T 24 S

• LOCATION MONUMENT



HEINRICHS GEOEXPLORATION COMPANY

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

August 10, 1964

AGREEMENT

At the request of Mr. (Charles) C. T. Moses, Jr., of Appomattox, Virginia, Heinrichs Geoexploration Company agrees to perform certain surveys, either geophysical, geological or geochemical, at their descretion for the purpose of annual labor. However, Heinrichs Geoexploration Company assumes no liability regarding maintenance of title in and to the property except in that the type of work done will be that which qualifies for annual labor. The area to be surveyed is that of eight claims as shown on a map by Mr. Robert T. Lenon, furnished by Mr. Moses, the names of which are as follows:

Border King, Queen Bee, Ace High, Hazel Lind, The Lucky Shoe, The Saddle Back, Senator Sr. Mine, C. T. Jr. Mine; all located in Sec. 1 & 2, T 24 S, R 15 E, Santa Cruz County, Arizona.

Mr. Charles T. Moses, Jr. agrees to pay Heinrichs Geoexploration Co. \$850.00 at the rates as listed below:

Service:	Per Crew or Staff Day
Hand Magnetic Survey-----	\$125.00
Induced Polarization Survey-----	250.00
Geochemical Survey-----	125.00
plus \$1.75 per analysis Lab Fee.	
Self Potential Survey-----	125.00
Report compilation, computing & drafting-	100.00
or \$12.50/hour.	
Miscellaneous supplies, communications, reproductions and crew living expense at our cost. Vehicles at \$10.00/day per vehicle plus \$0.10 per mile.	

Heinrichs Geoexploration Company as qualified experts will conduct the surveys herein described and file affidavits of labor performed in behalf of Mr. Moses. Work on the described claims to commence on or before 8:00 a.m. on September 1, 1964.

Mr. Moses represents that he has the authority to authorize this work on behalf of himself as 1/3 owner, his Father, Mr. C. T. Moses, Sr., of Appomatox, Virginia, 1/3 owner and Mr. Frank R. Cheatham of Dinwoody St., Lynchburgh, Virginia, formerly of P. O. Box 100, Nogales, Arizona, 1/3 owner.

Understanding and agreement to the foregoing is hereby acknowledged.

HEINRICHS GEOEXPLORATION COMPANY

by: W. H. Heinrichs, Jr., Pres.
P. O. Box 5671, Tucson, Arizona

Charles T. Moses, Jr.
Charles T. Moses Jr.,
Moses Motor Co.
Appomatox, Virginia

Received August 10, 1964-----\$400.00
Balance due upon completion
of assignment----- 450.00
TOTAL:-----\$850.00

INDUCED POLARIZATION - RECEIVER NOTES

PAGE _____

Project: MOSES

Line: 1 W 1/2

Int. Cal _____

Date: 25/6/69

Send	3-4	4-5	2-3	3-4	4-5	1-2 _v	2-3	3-4	4-5	1-2	2-3	3-4
Rec.	4-8 _w	→	8-12 _w	→	→	12-16 _v	→	→	→	16-20 _w	→	→
Time	10	10	30 ¹⁰	10	10	30	10	3.0	3.0	10	3.0	1.0
DC-1 _{cal}	4.05	3.65	20.9	3.40 3.35	2.90 2.85	19.1	4.35	1.25 1.25	1.32 1.33	4.05 4.05	1.62 1.67	.57 .58
DC-2	4.05	3.75	20.5	3.45 3.35	2.90 2.80	18.5	4.2	1.24 1.26	1.32 1.34	4.02 4.05	1.3 1.7	.56 .56
Σ	8.10	7.40	41.4	6.75 6.80	5.75 5.70	37.6	8.55	2.50 2.50	2.65 2.63	8.10 8.107	3.29 3.0	1.15 1.12
DC-3	4.0	3.65	21.0	3.42 3.35	2.95	19.2	4.35	1.22	1.28	4.62	1.66	.57 .56
Dc-4	4.1	3.70	20.6	3.40 3.35	2.85	18.3	4.20	1.28	1.36	4.05	1.65	.59 .54
Σ	8.1	7.41	41.6	6.77 6.77	5.80	37.5	8.55	2.50	2.64	8.07	3.31	1.13 1.13
DC-AV	8.1	7.40	41.5	6.77	5.75	37.5	8.55	2.50	2.65	8.07	3.20	1.13
AC-1	3.95	3.20	40.5	6.8	5.65	36.9	8.30	2.50	2.60	7.98	3.25	1.195
AC-2	3.95	3.60	20.2	3.4	2.85	18.5	4.15	1.25	1.30	4.0	1.62	.6
Σ	7.90	3.60	20.5	3.4	2.80	18.4	4.15	1.25	1.30	3.98	1.63	.595
S. P.	+64.2	+65.9	+20.9	12.5	12.5					+15.8	+3.8	
AC-N	.14±	.05	.08	.02	.02	.02			.02	.02		
	55.5		54.5		54.5				54.5	54.5		

6.77

6.75

6.75

6.80

3

$$\begin{array}{r} 4 \overline{) 27.07} \\ \underline{28} \\ 107 \\ \underline{108} \\ 1 \end{array}$$

1

1

1



INDUCED POLARIZATION - RECEIVER NOTES

PAGE

Project: Mosses Line: 1-E/2 Int. Cal _____ Date: _____

Send	3-2	2-1	4-3	3-2	2-1	5-4	4-3	3-2	2-1	5-4	4-3	3-2
Rec.	4-8E	→	8-12E	→	→	12-16E	→	→	→	16-20E	→	→
Time	100	10	100	30	10	300	30	30	10.0	100	10	10
DC-1	27.2	5.3	35.55	10.03	3.0 3.0	200	14.1	7.3	2.4 2.55	60.5 60.0	6.3 6.3	3.45 3.61
DC-2	27.8	5.3	35.0	10.06	3.1 2.7	199	14.2	7.0	2.50 2.50	60.5 60.5	6.15 5.8	3.95 3.50
Σ	56.0	10.6	70.55	20.09	6.0 5.8	399	28.3	14.3	4.95 5.00	120.5 121.0	12.85 11.95	7.10 7.45
DC-3	28.0	5.55 5.20	35.55	10.01	3.2 2.8	200	14.3 13.7	8.0 6.8	2.1 2.65	60.0	5.9 6.0	3.20 3.60
Dc-4	28.0	5.5 5.1	35.0	10.08	3.1 2.9	201	14.4 13.7	7.3 7.3	2.8 1.95	60.0	6.3 2.85	3.80 3.70
Σ	56.0	10.75 10.60	70.55	20.09	6.0 6.0	401	28.0 28.1	14.8 14.8	4.75 4.75	120.0	11.9 12.15	3.80 3.70
DC-AV	56.0	70.68	70.55	20.09	6.0	400	28.2	14.5	4.84	120.5	12.16	7.46
AC-1	28.0	5.25	35.0	10.01	2.90	188	13.6	7.2	2.40	58.2	5.8	3.45
AC-2	28.0	5.25	35.0	10.01	2.85	18.9	13.5	7.2	2.35	58.2	5.8	3.45
Σ	56.0	10.50	70.0	20.02	5.75	377	27.1	14.4	4.75	116.4	11.6	6.90
S. P.	22.6	22.1			13.1				74.4			
AC-N	.03	.08	.02		.06	.08			.055	.10		
	56.0								55.0			

INDUCED POLARIZATION - RECEIVER NOTES

PAGE _____

Project: Muders Line: 1-7 1/2 Int. Cal _____ Date: _____

Send	2-1	5-4	4-3	3-2	2-1		CAL					
Rec.	→	20-24E										
Time	3.0	30	10	3.0	3.0		30					
DC-1	1.35 1.15	26.3 26.0	3.1 3.1	1.75 2.26	.73 .50		15.3					
DC-2	1.15 1.40	26.3 25.9	3.3 2.7	1.55 2.80	1.3 .25		15.3					
Σ	2.50 2.65	52.3 52.2	6.2 5.9	3.95 4.65	1.23 1.55		30.6					
DC-3	1.35 1.10	26.2	3.45 3.1	1.90 2.25	1.15 .15		15.3					
Dc-4	1.30 1.40	26.0	3.3 2.6	1.70 2.15	1.40 .50		15.3					
Σ	2.65 2.70	52.2	6.55 5.96	4.15 3.85	1.30 1.90		30.6					
DC-AV	2.62	52.2	6.14	4.1	1.49		30.6					
AC-1	1.3	24.7	3.0	1.93	.75		15.3					
AC-2	1.3	24.8	3.0	1.93	.75		15.1					
Σ	2.6	49.5	6.0	3.86	1.50		30.3					
S. P.	70.2	+12.0			+12.0							
AC-N	.05	.08 _{SPLS}			.04							
	55.0				55.0							

INDUCED POLARIZATION

SENDER NOTES

(26)

Project: 1105845Line: W 1/2 #1Date: 8-25-64

Send	34	45	23	34	45	12	23	34	45			
Receive	→		→			→			→			
Time				DC 5 Low				AC 4 Low DC 7"				
Range	1X800	2X700	2X1000	2X900	2X1000	2X1000	2X1000	2X900	2X1000			
Current	900	1400	2000	1800	2000	2000	2000	1800	2000			
Send	12	23	34	45	12	23	34	45		CA1		
Receive	→			→	→			→		12	(1X300)	
Time			AC 6L DC 9L				AC 6L DC 9L				300	
Range	2X1000	2X1000	2X900	2X1000								
Current	2000	2000	1800	2000	2000	2000	1400	2000				

$$\begin{array}{r}
 981 \\
 81 \\
 \hline
 981 \\
 7848 \\
 \hline
 88461 \\
 .12 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 795 \\
 .12 \\
 \hline
 1590
 \end{array}$$

$$\begin{array}{r}
 178922 \\
 89461 \\
 \hline
 1,073532
 \end{array}$$

$$\begin{array}{r}
 895 \\
 .12 \\
 \hline
 1490 \\
 895 \\
 \hline
 1,0790
 \end{array}$$

~~9.07~~

9.050

$$\begin{array}{r}
 800 \overline{) 9050} \\
 \underline{800} \\
 1050 \\
 \underline{800} \\
 250
 \end{array}$$

INDUCED POLARIZATION

SENDER NOTES

Project: W08585

Line: E 1/2 #1

Date: 8-27-64

Send	33	12	34	23	42	45	34	23	12				
Receive	→		→			→							
Time													
Range	1.5	2.1	2.1										
Current	2000	2000	1500	2000	2000	2000	1800	2000	2000				
Send	45	34	23	12	45	34	23	12		CA1	1x300		
Receive	→				→						3-9	300	
Time													
Range	2x1000	2x900	2x800	2x1000									
Current	2000	1800	2000	2000	2000	1800	2000	2000					

Project: NASSUS Line: 2 - W/2 Int. Cal _____ Date: 8-28-64

Send	4-5	1-2	2-3	3-4	4-5		CAL.					
Rec.	—	20-24										
Time	1.0	3.0	3.0	1.0	1.0		300					
DC-1	.57 .78	1.48 1.52	.76 .45	.46 .36	.35 .47		15.2					
DC-2	.59 .47	1.40 1.57	.76 .42	.54 .28	.33 .47		15.1					
Σ	1.06	3.00 2.97	1.21 1.18	.82	.88 .80		30.3					
DC-3	.57 .49	1.37 1.60	.80 .35	.60 .27	.33 .44		15.2					
Dc-4	.58 .43	1.37 1.60	.85 .35	.58 .30	.32 .49		15.2					
Σ	1.06	2.97 2.97	1.35 1.20	.88	.79 .87		30.4					
DC-AV	1.06	2.97	1.21?	.85	.80?		30.35					
AC-1	.54	1.44	.63	.44	.47		15.0					
AC-2	.54	1.45	.60	.44	.40		15.1					
Σ	1.08	2.89	1.23	.88	.80?		30.1					
S. P.	4.0	0			-1.5							
AC-N	.02	.02			.05							
	54.5				55.0							

Project: MarsesLine: 2 E/2

Int. Cal

Date: 8-28

Send	3-2	2-1	4-3	3-2	2-1	5-4	4-3	3-2	2-1	54	4-3	3-2
Rec.	4-81	→	8-25	→	→	12-16	→	→	→	16-20	→	→
Time	30	10	100	10	3-0	100	10	3-0	3-6	30	10	3-0
DC-1	20.05	3.85	29.9	3.90	1.66 1.70	32.0	7.7	2.13 2.33	1.26 1.15	10.07	4.25	1.52 1.50
DC-2	20.05	3.95	29.0	4.02	1.66 1.75	32.0	7.6	2.14 2.28	1.25 1.14	10.10	4.25	1.43 1.48
Σ	40.10	7.80	58.95	7.92	3.36 3.41	64.0	15.3	4.46 4.42	2.41 2.29	20.17	8.50	3.02 2.91
DC-3	20.05	3.85	29.95	3.80	1.59 1.82	32.0	7.55	2.15 2.28	1.19 1.11	10.07	4.15	1.45 1.47
Dc-4	20.05	3.95	29.0	4.1	1.55 1.77	32.0	7.6	2.15 2.30	1.25 1.12	10.10	4.35	1.48 1.43
Σ	40.1	7.80	58.95	7.90	3.41 3.32	64.0	15.15	4.43 4.45	2.30 2.37	20.17	8.50	2.97 2.97
DC-AV	70.1	7.80	58.95	7.91	3.37	64.0	15.22	4.44	2.37?	20.17	8.50	2.94
AC-1	19.8	3.8	29.0	3.85	1.65	31.5	7.4	2.18	1.2	10.06	4.1	1.44
AC-2	19.8	3.8	29.0	3.85	1.65	31.5	7.42	2.18	1.15	10.06	4.1	1.45
Σ	39.6	7.6	58.0	7.70	3.30	63.0	14.82	4.36	2.35	20.12	8.2	2.89
S. P.	+1.7	1.8	13.0		+12.5	-12.7				+12.7	+22.0	
AC-N	.10	.05	.92		.03	.04				.03	.03	
					55.0				55.0			

Project: Messos Line: 2 E/2 Int. Cal _____ Date: 8-28-64

Send	2-1	5-4	4-3	3-2	2-1		CAL					
Rec.	→	20-240										
Time	3-0	10	3-0	3-0	1-0		30					
DC-1	.87 .78	5.40 5.80	2.45 2.75	.97 .90	.65 .58		15.4					
DC-2	1.0 .68	5.50 5.75	2.40 2.76	1.03 .86	.72 .51		15.2					
Σ	1.56 1.68	11.20 11.25	5.20 5.16	1.8 1.89	1.23 1.28		30.6					
DC-3	.87 .91	5.40	2.50 2.70	.91 1.0	.7 .55		15.3					
Dc-4	.70 1.05	5.80	2.43 2.60	.93 .96	.66 .57		15.2					
Σ	1.78 1.73	11.20	5.20 5.03	1.89 1.89	1.26 1.21		30.5					
DC-AV	1.72?	11.22	5.15	1.86	1.23		30.55					
AC-1	.84	5.42	2.53	.95	.66		15.1					
AC-2	.84	5.41	2.53	.96	.65		15.1					
Σ	1.68	10.83	5.06	1.91	1.31 ?		30.2					
S. P.	+21.1	+1.5			+2.0							
AC-N	.03	.03			.08							
					55.0							

INDUCED POLARIZATION

SENDER NOTES

Project: Mosses

Line: 2 Spool W/2

Date: 8-28-64

Send	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5	1-2	2-3	3-4	
Receive	→												
Time													
Range													
Current	2000	→											
Send	4-5	1-2	2-3	3-4	4-5				2-3-4				
Receive	→												
Time													
Range													
Current	2000	→								300			

INDUCED POLARIZATION

SENDER NOTES

Project: MOSSES

Line: 2 Spr 1/2 E 1/2

Date: 8-28-64

Send	2-3	1-2	3-4	2-3	1-2	4-5	3-4	2-3	1-2	4-5	3-4	2-3	
Receive	→												
Time													
Range													
Current	2000	→											
Send	1-2	4-5	3-4	2-3	1-2				3-4				
Receive	←												
Time													
Range													
Current	2000	→								300			

HEINRICH'S GEOEXPLORATION COMPANY
 INDUCED POLARIZATION SURVEY COMPUTATION SHEET

Page Comp by

Project Wesses Line 2 - E_{1/2} Field date Aug 28/64 Data page Comp. date . Comp by

(A)	Send	3-2	2-1	4-3	3-2	2-1	2-1	5-4	4-3	3-2	2-1	5-4	4-3	3-2
(B)	Receive	4-8E	10	8-12E	10	3-0	100	12-16E	10	3-0	3-0	16-20E	10	3-0
(C)	n separation	30	10	100	10	3-0	100	100	10	3-0	3-0	30	10	3-0
(D)	I	2000												
(E)	Vdc (avg)	40.1	7.8	58.95	2.91	3.37	64.0	15.22	4.44	2.37?	20.17	8.5	2.44	
(F)	DCCal													
(G)	Kn x 10 ⁻³	1.62	4.8	1.2	4.8	12.0	1.2	4.8	12.0	24.0	4.8	12.0	24.0	
(H)	dc=ExFxGx10 ³ /D	24	18.5	3.5	18.5	2.0	3.5	3.5	3.6	2.6	2.8	4.7	5.0	3.5
(I)	Vac	39.6	7.6	58.0	7.70	3.3	63.0	14.82	4.36	2.35	20.12	8.2	2.89	
(J)	AC noise x 2													
(K)	Vac (corr) = $\sqrt{I^2 - J^2}$													
(L)	AC-DC cal.	.990	.990	1.010	.990	.990	1.010	.990	1.010	1.007	1.000	.994	1.023	1.005
(M)	dc/Eac=ExL/K	1.002	1.015	1.026	1.018	1.011	1.025	1.015	1.015	1.007	1.000	.994	1.023	1.005
(N)	PFE=(M-1)/(10 ²)	.2	1.5	2.6	1.8	1.1	2.5	1.5	1.5	.7	.2	1.6	2.3	.5
(O)	MCF=(M-1)/(10 ⁵)/H	8	81	74	98	55	66	42	42	27	2	13	46	14

(A)	Send	2-1	5-4	4-3	3-2	2-1	2-1			CAL				
(B)	Receive	20-24E	10	3-0	3-0	1-0								
(C)	n separation	3-0	10	3-0	3-0	1-0								
(D)	I	2000												
(E)	Vdc (avg)	1.72	11.22	5.15	1.86	1.23				30.55				
(F)	DCCal													
(G)	Kn x 10 ⁻³	42	12	24	42	86								
(H)	dc=ExFxGx10 ³ /D	35	66	61	38	24								
(I)	Vac	1.68	10.83	5.06	1.91	1.31				30.2				
(J)	AC noise x 2													
(K)	Vac (corr) = $\sqrt{I^2 - J^2}$													
(L)	AC-DC cal.	.990	.990	1.024	1.008	1.050				.990				
(M)	dc/Eac=ExL/K	1.012	1.024	1.008	965	.987								
(N)	PFE=(M-1)/(10 ²)	.2	2.4	.8	3.5	1.3								
(O)	MCF=(M-1)/(10 ⁵)/H	34	36	13	(92)	(-25)								

1000
1005
1006
1007
1008
1009
1010
1011
1012
1013
1014
1015
1016
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1019
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HEINRICH'S GEOEXPLORATION COMPANY
INDUCED POLARIZATION SURVEY COMPUTATION SHEET

Page _____
Comp by _____

Project	Line	Field date	Data page	Comp. date	Comp by			
(A) Send	3-2	2-1	4-3	3-2	2-1	5-4	4-3	3-2
(B) Receive	4-8E	1D	8-12E	3-0	1D	12-16	3-0	3-0
(C) n separation	150	1D	150	3-0	1D	350	3-0	10
(D) I	2500	2000	1800	2000	2000	2000	1800	2000
(E) Vdc (avg)	56.0	10.68	70.55	20.09	6.0	40.0	28.2	14.5
(F) Dccal	980	980			900			
(G) Kn x 10 ⁻³	1.2	4.8	1.2	4.8	12.0	1.2	4.8	12.0
(H) dc=ExFxGx10 ³ /D	33	25	4.0	4.7	35	24	74	85
(I) Vac	56.0	10.50	70.0	20.02	5.75	37.7	27.1	14.4
(J) AC noise x 2								
(K) Vac (corr) = $\sqrt{I^2 - J^2}$								
(L) AC-DC cal.	1.012	.992	1.012	.992				
(M) dc/Eac=ExL/K	1.012	1.008	1.021	.996	1.032	1.051	1.031	1.000
(N) PFE=(M-1)(10 ²)/H	1.2	8	2.1	-.4	3.2	5.1	3.1	0.4
(O) MCF=(M-1)(10 ³)/H	30	32	46	-8.5	92	213	42	0

Project	Line	Field date	Data page	Comp. date	Comp by			
(A) Send	2-1	5-4	4-3	3-2	2-1			
(B) Receive	3.0	20.24E	10	3.0	3.0			
(C) n separation	3.0	30	10	3.0	3.0			
(D) I	2.62	52.2	6.14	4.1	1.49			
(E) Vdc (avg)	54	31	80	84	83.19			
(F) Dccal	42.0	12.0	24.0	42.0				
(G) Kn x 10 ⁻³	2.60	49.5	6.0	3.86	1.50			
(H) dc=ExFxGx10 ³ /D								
(I) Vac	992	992						
(J) AC noise x 2								
(K) Vac (corr) = $\sqrt{I^2 - J^2}$								
(L) AC-DC cal.	1.000	1.024	1.014	1.052	.985			
(M) dc/Eac=ExL/K	0	2.4	1.4	5.2	1.5			
(N) PFE=(M-1)(10 ²)/H	0	78	17	62	-24			
(O) MCF=(M-1)(10 ³)/H								

31

400'

(A) Send	3-4	4-5	2-3	3-4	4-5	1-2	2-3	3-4	4-5	1-2	2-3	3-4	4-5	1-2	2-3	3-4
(B) Receive	4-8u	4.8	8-12u	4.8	12.0	12-16u	4.8	12.0	24.0	16-20u	4.8	12.0	24.0	18-20u	12.0	24.0
(C) n separation	1800	1400	2000	1800	2000	2000	2000	1800	2000	2000	2000	1800	2000	2000	2000	1800
(D) I	8.1	7.4	41.5	6.77	5.75	37.5	8.55	2.5	2.65	8.07	3.2	1.13				
(E) Vdc (avg)	9.81	9.72														
(F) Dccal																
(G) Kn x 10 ⁻³																
(H) dc=ExFxGx10 ³ /D	11.8	24.6	58.4	43.9	33.5	21.8	20.0	16.2	30.8	18.8	18.7	14.7				
(I) Vac	7.90	7.26	40.5	6.8	5.65	56.9	8.3	2.5	2.6	7.98	8.25	1.2				
(J) AC noise x 2																
(K) Vac(corr) = $\sqrt{I^2 - J^2}$																
(L) AC-DC cal.	9.81	9.80														
(M) dc/Eac=ExI/K	1.005	1.005	1.000	1.976	1.998	1.995	1.007	1.980	1.998	1.998	1.970	1.980				
(N) PFE=(M-1)/(10 ²)	.5	.5	.0	-2.4	-.2	-.5	.7	-2.0	-.2	-.2	-.30	-2.0				
(O) MCF=(M-1)/(10 ⁵)/H	42	20	0	-55	-6	-23	35	-123	-6.5	10.6	-160	-134				

Project	Line	Field date	Data page	Comp. date	Comp by
(A) Send	4-5	1-2	2-3	3-4	4-5
(B) Receive	20-24u				
(C) n separation	42.0	12.0	24.0	42.0	24.0
(D) I	2000	2000	2000	1800	2000
(E) Vdc (avg)	1.37	4.58	2.60	1.99	1.35
(F) Dccal					
(G) Kn x 10 ⁻³					
(H) dc=ExFxGx10 ³ /D	28.0	26.7	30.3	22.4	26.4
(I) Vac	1.44	4.52	2.52	1.06	1.38
(J) AC noise x 2					
(K) Vac (corr) = $\sqrt{I^2 - J^2}$					
(L) AC-DC cal.	1.040	.980	.980	1.040	1.040
(M) dc/Eac=ExI/K	.990	.994	1.010	.975	1.015
(N) PFE=(M-1)/(10 ²)	-1.0	-.6	1.0	-2.5	1.5
(O) MCF=(M-1)/(10 ⁵)/H	-56	-22	33	-112	264

Dan Anderson

Pete Buder

John Beeler

—



MOSES MOTOR COMPANY

TELEPHONE 352-3773
APPOMATTOX, VIRGINIA



December 15, 1964

Heinrichs Geoexploration Company
P. O. Box 5671
Tucson, Arizona

Attention: Mr. Grover Heinrichs

Dear Sir:

I received your copy of the work which was done on the Mining Claim in Nagalas. I appreciate your doing this work very much and I am very sorry that the first copy got lost.

Enclosed is my check for \$475.00 to take care of this.

I am still at a loss as to what the prospects are for developing this piece of land. If when you get time and see fit, I would appreciate a letter from you giving me the frank facts as to what you think about this Mining Claim.

Thanking you again for this work and trusting to hear from you in regard to developing this Claim, I remain,

Very truly yours,

C. T. Moses, Jr.
C. T. Moses, Jr.

CTMjr:vc

Enclosure

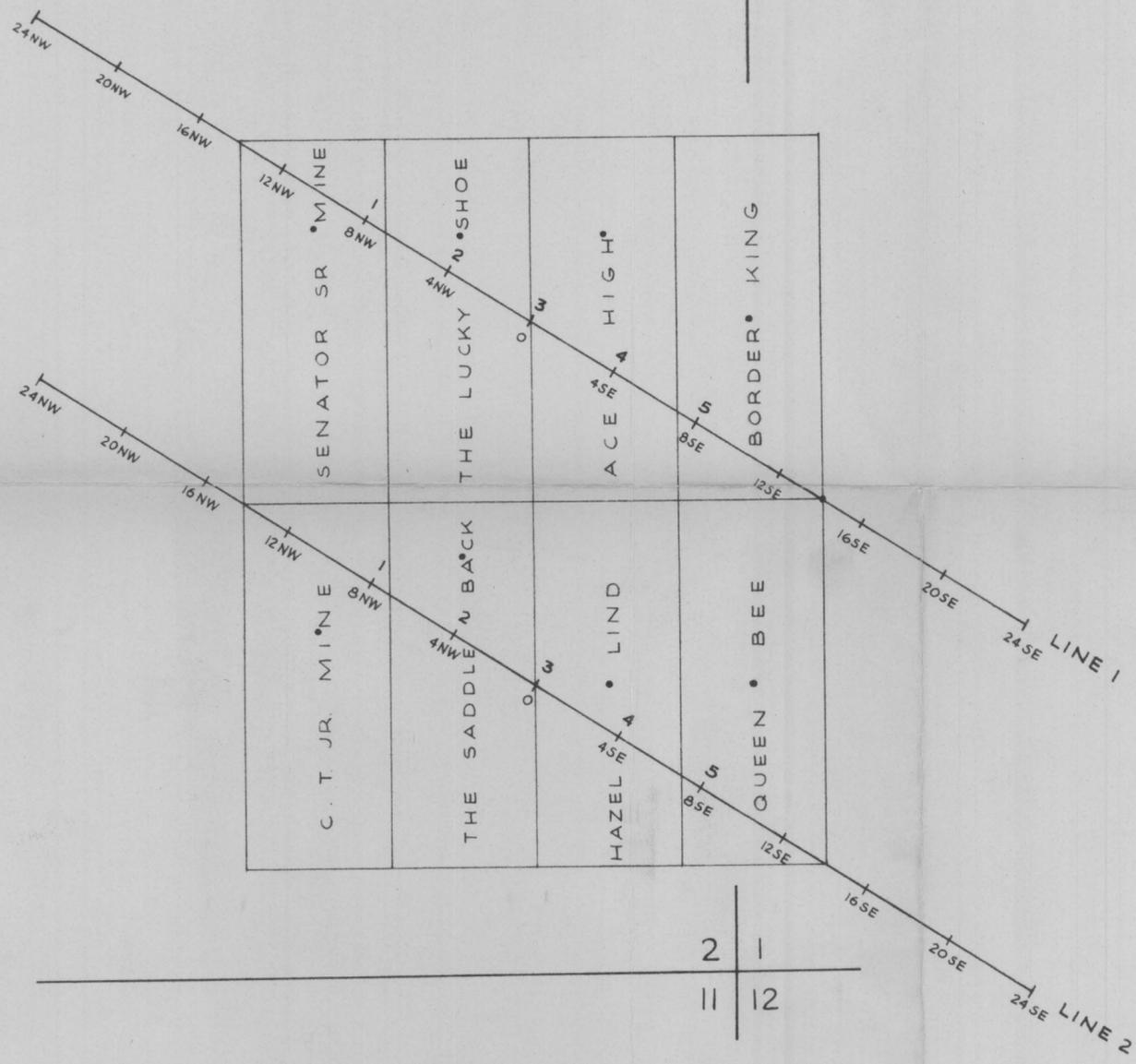


R15E

35 | 36

2 | 1

T
24
S



2 | 1

11 | 12

• LOCATION MONUMENT

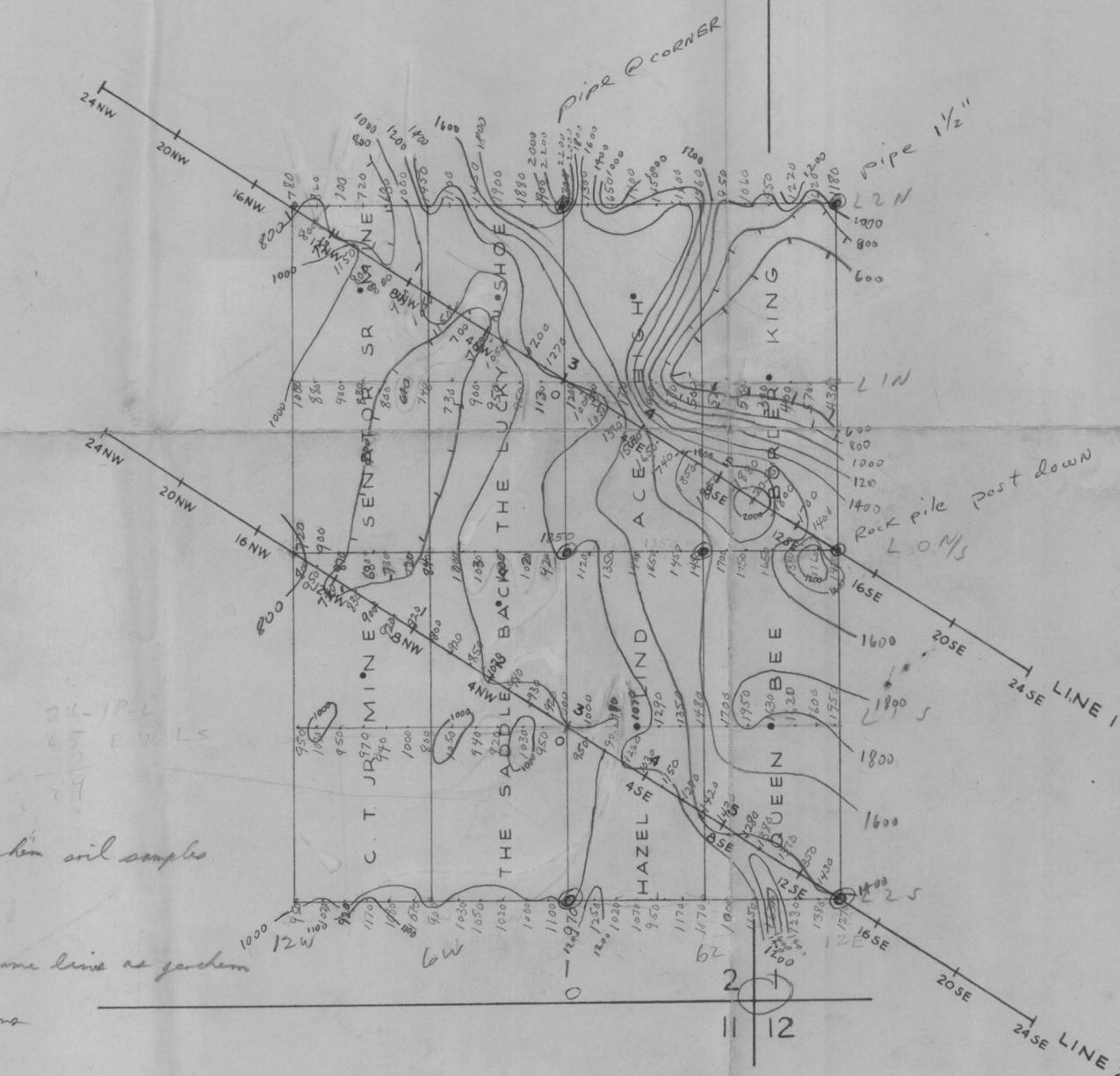
INDUCED POLARIZATION SURVEY
 FOUR METALS AREA
 PATAGONIA, SANTA CRUZ CO., ARIZONA
 FOR
 C. T. MOSES, JR.
 BY
 HEINRICHS GEOEXPLORATION CO.
 SCALE: 1" = 500' AUG. 1964

R15 E

35 | 36

2 | 1

T
24
S



recent
 No location pits
 noted in field
~~Aug.~~ Aug. 1965

MAG. Field MAP

garden soil samples

Mag stations along some lines as garden
 except on 100' stations

Geochem every 200'
 also Geochem on I.P. lines to edge of claim group

- LOCATION MONUMENT
- ⊙ CORNER POST LOCATED IN FIELD

INDUCED POLARIZATION SURVEY
 FOUR METALS AREA
 PATAGONIA, SANTA CRUZ CO., ARIZONA
 FOR
 C.T. MOSES, JR.
 BY
 HEINRICHS GEOEXPLORATION CO.
 SCALE: 1" = 500'
 AUG. 1964





FOR
C. T. MOSES, JR.

HEINRICHSGEOEXPLORATION COMPANY
DATE: AUG. 1964
SCALE: 1" = 400'

INDUCED POLARIZATION TRAVERSE

SECTIONAL DATA SHEET
LINE NO. 2

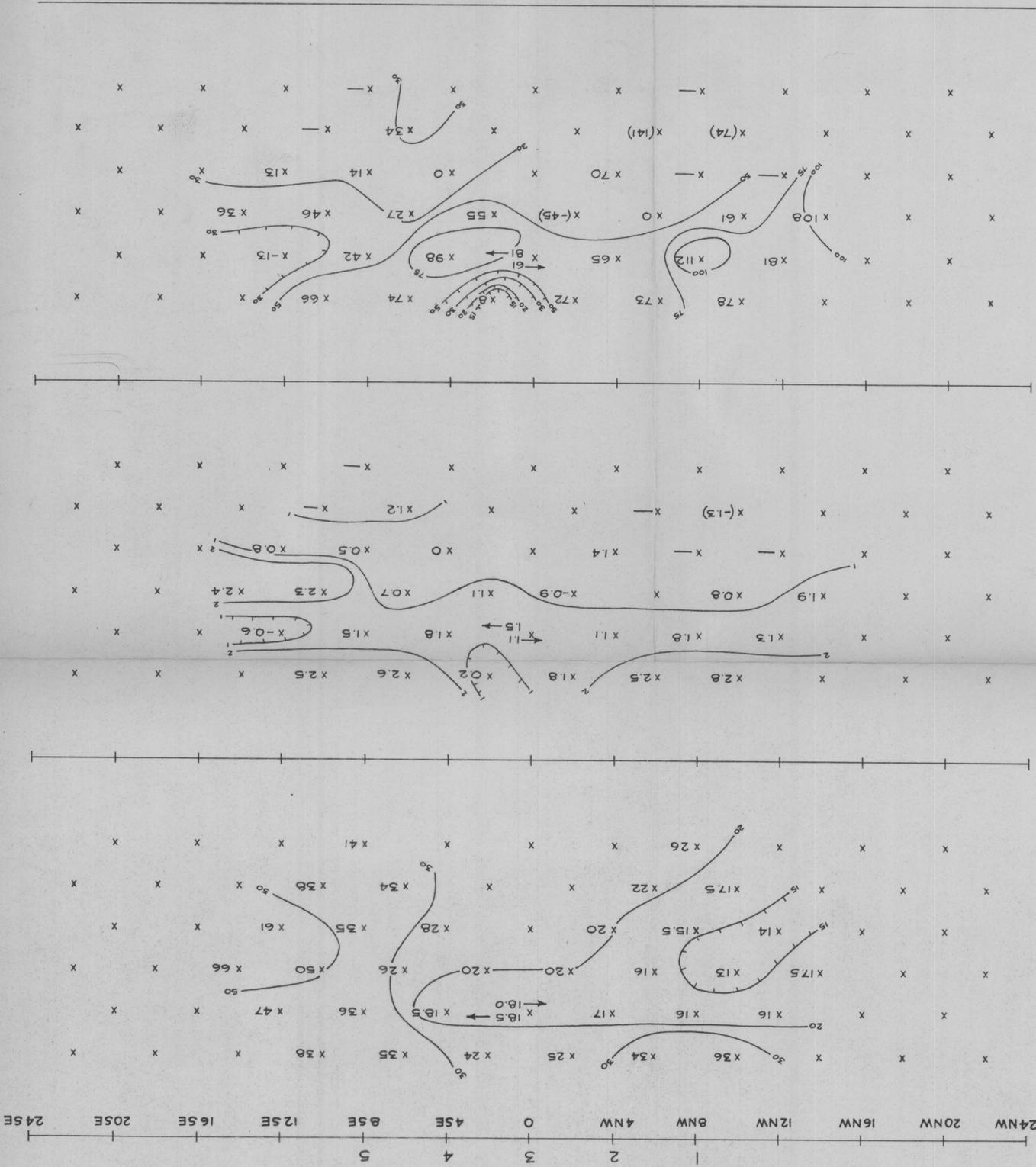
FOUR METALS AREA
SANTA CRUZ CO., ARIZONA

SELF POTENTIAL
SURFACE PROFILE
GEOLOGY, ETC.

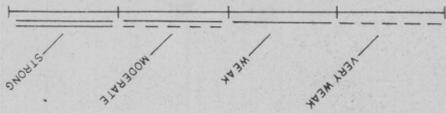
APPARENT "METALLIC CONDUCTION" FACTOR (MCF)
(MCF = $\frac{PFE}{PDC} \times 1000$)
CONTOUR INTERVAL LOGARITHMIC

PERCENT FREQUENCY EFFECT (PFE)
CONTOUR INTERVAL CONSTANT
SENDER FREQUENCIES: 005 & 3.0 cps.

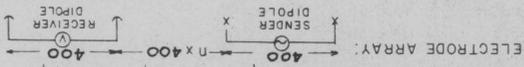
APPARENT RESISTIVITY (ρ_{app})
IN UNITS OF OHM FEET (2T)
CONTOUR INTERVAL LOGARITHMIC
SENDER FREQUENCY: 005 cps.



LOOKING Northeastly



RELATIVE ANOMALY STRENGTH



EXPLANATION

U.S.M.M. No. 1



	P.M.C.	
B.K.	D.K.T. 30	192
Ac. Hign	D.K.T. 34	33
St. Jc	" 34	171
Hazel	34	32
	29	169
Com. Sa	34	168
Sub Back	34	170
Q.B.	30	191

SHEETS 16, 17, 18
 FOUR METALS AREA CLAIMS
 1 inch = 500 FT
 Eschenon, PE
 Patagonia A1A

Compiled from Data on file
 in our Patagonia Office