



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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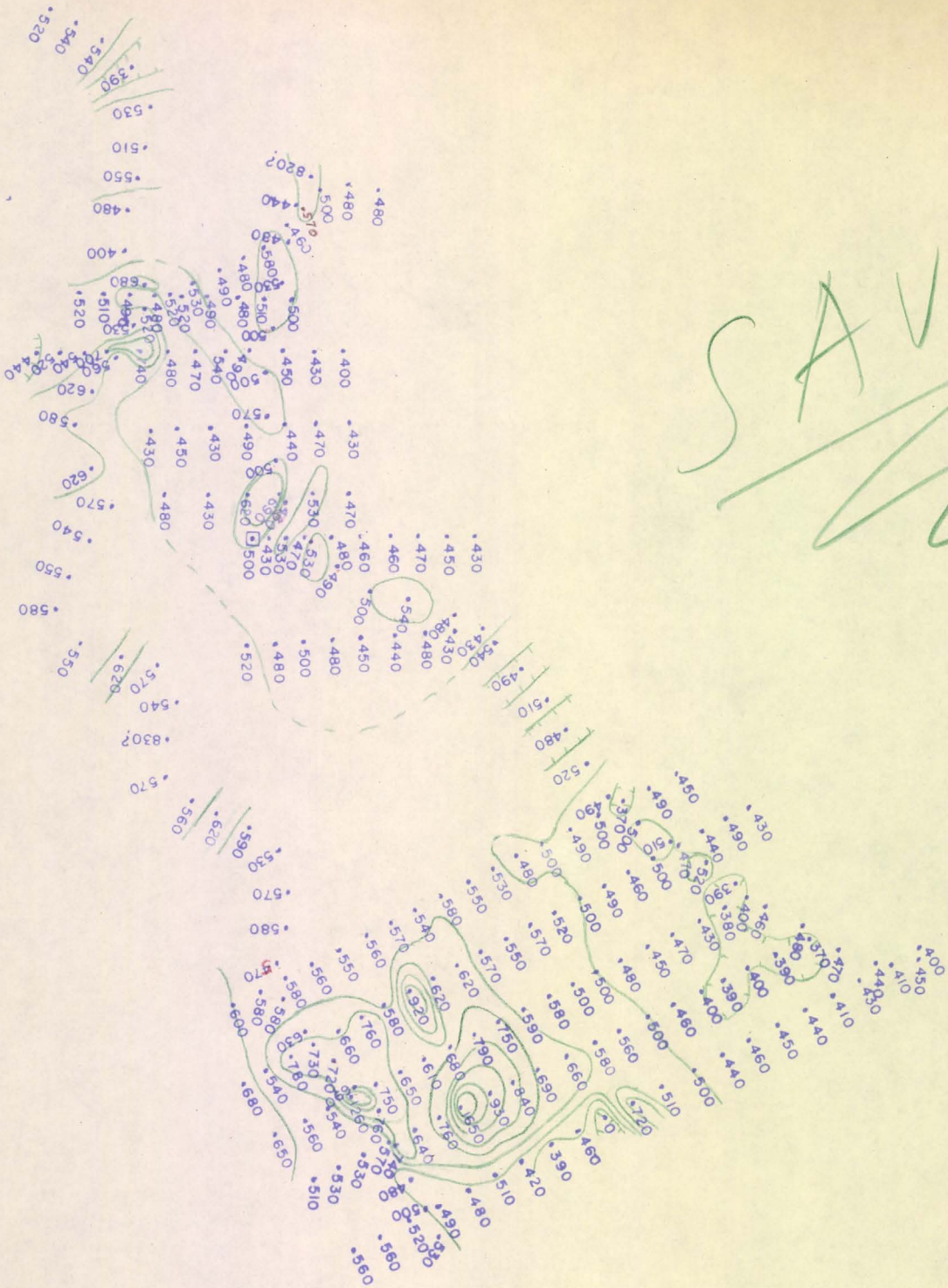
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SAVE

1007 C.I.

ESSEX

ESSEX INTERNATIONAL, INC.

METALLURGICAL & MINING DIVISION

1704 WEST GRANT RD., TUCSON, ARIZONA 85705 • PHONE (602) 624-7421

August 15, 1972

Ph 624-7421

Phelps Dodge Corporation Management
Morenci Operations
Morenci, Arizona

Gentlemen:

The bearers of this letter, employees of Heinrichs Geoexploration Company, are contracting a geophysical survey to be conducted for and at the expense of Essex International on the Els-Beth claims presently under lease to Essex International from BYU et al. It is our desire that you give these persons all privileges pertaining to access, ingress and egress to the property as per Route #1 as indicated in my letter dated August 10, 1972 to Mr. John O'Neal.

These persons have been instructed and are being so informed by a copy of this letter to report to your office each day they are conducting the survey on the property so that in the event that any problem or hazardous situation arises, such as blasting, heavy equipment movement, etc., you can so inform them of the situation and your recommended action. They have also been instructed to sign liability waivers releasing Phelps Dodge of any liability while they are on Phelps Dodge property.

Very truly yours,



E. Grover Heinrichs
Assistant Manager Exploration

EGH:td

August 10, 1972

Mr. John O'Neal, General Manager
Morenci Operations
Phelps Dodge Corporation
Morenci, Arizona

Dear Mr. O'Neal:

Per our phone conversation of August 9 I am enclosing a sketch map and aerial photo of our proposed access route to the BYU-Els-Beth Claims.

As you know, Essex has a lease on the property and it is necessary to gain access to conduct our yearly assessment work.

The best route from all aspects, in our opinion, is labeled Rt. 1. An alternate though more hazardous route is shown as Rt. 2.

We will be most anxious to discuss with you or any of your personnel other suggestions concerning access.

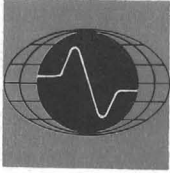
I plan to be in Safford Monday or Tuesday of next week and I will give you a phone call at that time to discuss specifics.

Very truly yours,

E. Grover Heinrichs
Assistant Manager Exploration

EGH:td
enclosure

cc: P.I. Eimon



HEINRICHS GEOEXPLORATION COMPANY

806 WEST GRANT ROAD. TUCSON, ARIZONA 85703. P.O. BOX 5964. PHONE: (602) 623-0578

August 14, 1972

Mr. E. Grover Heinrichs
Essex International, Inc.
1704 West Grant Road
Tucson, Arizona 85705

Re: Proposed Magnetic Survey
Els-Beth Claims, Morenci, Az.
GEOEX Job # 739

Dear Grover:

As per your request last Tuesday, we herewith submit this proposal-contract letter to do a magnetic geophysical survey in the Morenci area, Greenlee County, Arizona. This survey would be in partial fulfillment of the annual assessment requirements on five Federal lode mining claims: Els-Beth 1 through 5.

We understand that a 100 foot station spacing is to be employed with line spacings as required to cover the claim group compatible with the terrain and available time. Total or vertical intensity data are satisfactory.

A two man magnetometer crew plus necessary equipment to obtain this coverage would be charged at \$175.00 per work day plus expenses. Expenses include \$15.00 per day plus \$0.15/mile for a four wheel drive vehicle. Living is charged at \$36.00/day for the two man crew. Other direct job related expenses are charged at our invoice cost plus 15%.

Our normal work schedule is based on a five day week and an eight hour work day. Travel time up to one hour per day each way to and from the job site to the job base will not be charged. Overtime in excess of this schedule will be charged at \$26.25 per hour for the two man crew plus expenses as above.

Standby time due to inclement weather or client request and travel time from Tucson to Morenci and return will be charged at half the daily rate plus expenses as above.

Final data compilation, computation and drafting will be charged at \$10.00 per hour. Final interpretation and report will be charged at \$150.00

per day although we understand only a brief one page summary with the finalized data is desired.

Three days out of Tucson should allow enough coverage to satisfy the assessment requirements of \$500.00. The total billing is estimated at \$600.00.

GEOEX will save Essex harmless from all Workmen's Compensation liability, public liability and property damage liability incurred by GEOEX employees. All property permits, brushing and trespass liability and related costs which are incurred on behalf of Essex will be chargeable to Essex at GEOEX cost plus 15%. All special insurance premiums, bonds, fees, duties, licenses, taxes, trespass permits and related special fees, if any, will be billed to Essex at GEOEX cost plus 15%.

Payments are due on presentation. Billings may be submitted weekly with final payment due on presentation of final report.

Evidence of currently valid certificates of public liability and property damage insurance have been sent directly to you by our insurance agent Mr. W. L. Jacobs of Paul H. Jones Insurance Company.

Your understanding and approval of the above may be indicated by signing as provided below on the attached copy of this letter and returning it to us.

Sincerely,
Heinrichs GEOEXploration Company



Chris S. Ludwig
Senior Geophysicist

CSL:sb

Date: 8-15-78

Accepted by: [Handwritten Signature]

Title: Asst Mgr. of Expl.

cc: GEOEX Job #739 file.
cc: ENCL.

6 8/15

350
100

450
90

540
45

350
90

440
45

485
60

545

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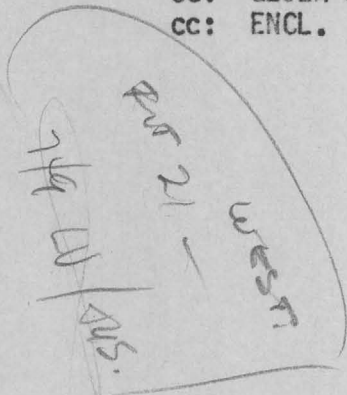
Date: _____

Accepted by: _____

Title: _____

cc: GEOEX Job #739 file.

cc: ENCL.



11-21-70

1" = 1000'
1" = 500'

3-4

1" = 500'
APPROX.

669



1" = 500'

3

ESSEX INTERNATIONAL, INC.

1704 WEST GRANT RD.

TUCSON, ARIZONA 85705

Phelps Dodge Corporation Management
Morenci Operations
Morenci, Arizona

ESSEX

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METALLURGICAL & MINING DIVISION

1704 WEST GRANT RD., TUCSON, ARIZONA 85705 • PHONE (602) 624-7421

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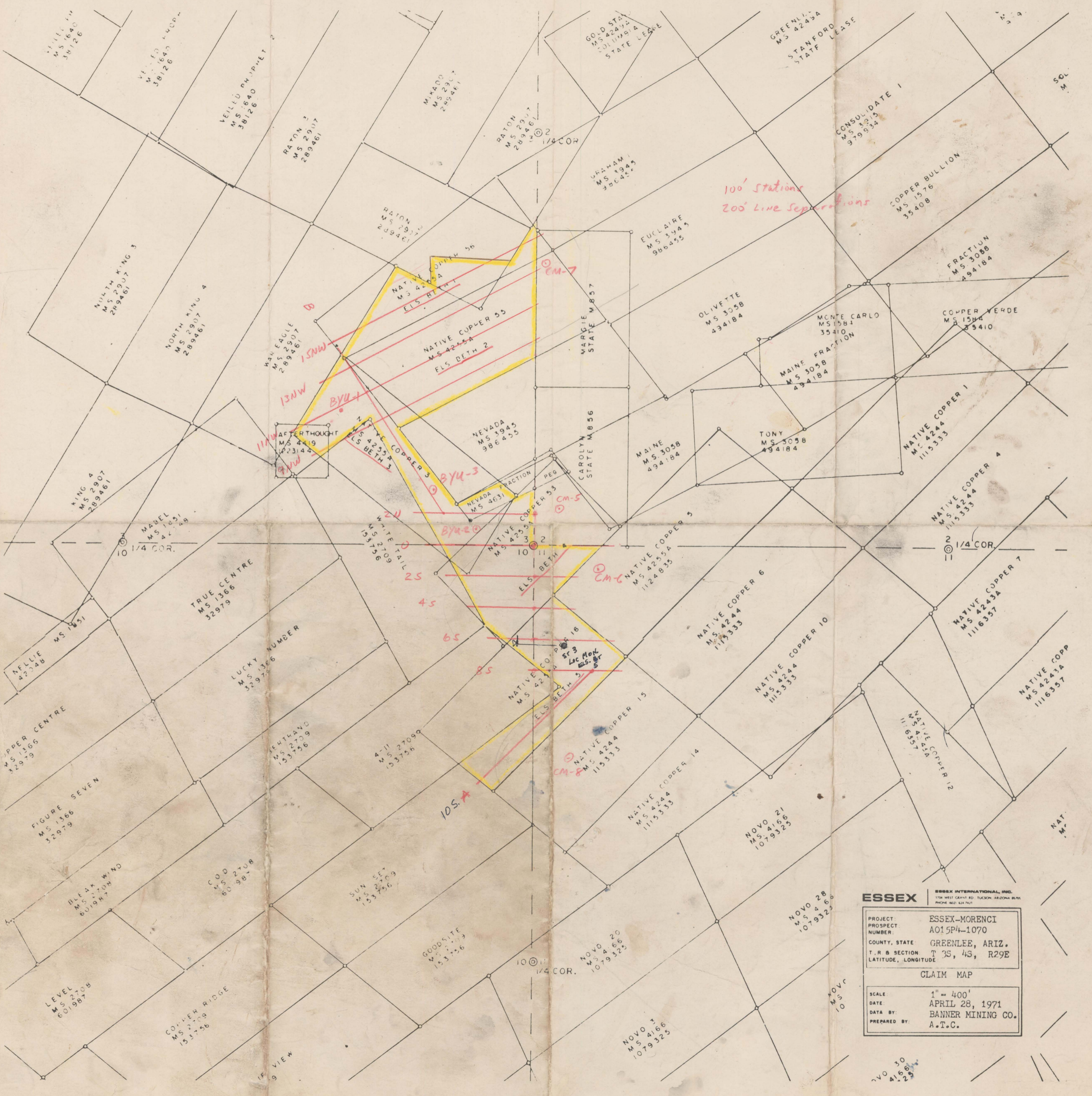
Very truly yours,



E. Grover Heinrichs
Assistant Manager Exploration

EGH:rd
enclosure

cc: P.I. Eimon



ESSEX ESSEX INTERNATIONAL, INC. 1108 WEST GRANT RD. TUCSON ARIZONA 85711 PHONE 462-4247

PROJECT NUMBER	ESSEX-MORENCI A015P4-1070
COUNTY, STATE	GREENLEE, ARIZ.
T. R. & SECTION	T 3S, 4S, R29E
LATITUDE, LONGITUDE	
CLAIM MAP	
SCALE	1" = 400'
DATE	APRIL 28, 1971
DATA BY	BANNER MINING CO.
PREPARED BY	A.T.C.

1 OF 12

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

DATE 16 AUG 1972

STA	TM	δ	POL	PG	Corr	
BASE I	1510	53	-	1	+1000	470
B-L-1						
0	1526	55	-	1		450
1E	28	56	-	1		440
2E	29	53	-	1		470
3E	1530	52	-	1		480
4E	30	54	-	1		460
5E	31	61	-	1		390
BASE I	1532	56	-	1		440
6E	32	48	-	1		520
7E	33	49	-	1		510
8E	1534	50	-	1		500
9E	35	51	-	1		490
10E	1536	48	-	1		520
11E	36	52	-	1		480
12E	37	49	-	1		510
13E	1538	51	-	1		490
14E	1540	46	-	1		540
15E	41	52	-	1		480
16E	42	46	-	1		540
17E	47	50	-	1		500
18E	48	51	-	1		490
19E	48	47	-	1		530
20E	1549	55	-	1		450
21E	50	50	-	1		500
22E	1550	43	-	1		570
23E	52	50	-	1		500
24E	1556	50	-	1		500
42 25E	57	47	-	1		530
26E	1558	52	-	1		480

Page 1 of 2 pages

2 of 12

AUG. 16, 1972

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

STA	TIME	δ	POL	RG
27E	1539	56	-	1
28E	1500	18	-	1

(JUNK) 440 820

D.C.M. - CO,
TP 1A STA 198
SUMMIT

STA	TIME	δ	POL	RG
BASE 1	1620	57	-	1

Page 2 of 2 pages

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AUG 17 1972

Cont

STA	TIME	X	POL	RG	
BASE 1	0815	61	—		
L-15 0E	0830	60	—		400
1E	0831	59	—		410
2E	0834	57	—		430
3E	36	59	—		410
4E	38	56	—		440
5E	0840	55	—		(E. END ROAD CUT)
6E	48	54	—		460
7E	50	56	—		440
8E	0851	50	—		500
9E	53	49	—		510
10E	0855	28	—		720
11E	0859	100	—		0
12E	0902	54	—		(CREEK BOTTOM)
13E	0904	41	—		390
14E	0905	58	—		420
15E	906	49	—		510
16E	0908	52	—		480
17E	0910	51	—		490
18E	0912	48	—		520
19E	0920	44	—		560
20E	0922	44	—		560

LINE 13 NW

0W	0934	49	—		510
1W	35	47	—		530
2W	36	47	—		530
3W	37	43	—		570
424 W	0938	36	—		640
5W	0943	24	—		760

Page 1 of 4

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AUG. 17, 1972

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

STA	TIME	X	POL	RG	
6 W	0945	65	+	1	1650
7 W	47	07	-	1	930
8 W	49	16	-	1	840
9 W	51	31	-	1	690
10 W	53	34	-	1	660
11 W	0957	42	-	1	580
12 W	0959	44	-	1	560
13 W	1002	50	-	1	500
14 W	1004	54	-	1	460
15 W	06	60	-	1	400
16 W	08	61	-	1	390
17 W	1010	60	-	1	400
18 W	1013	61	-	1	390
19 W	1015	63	-	1	370

Page 2 OF 4

5 OF 12

AUG 17 1972

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

STA	TIME	δ	POL	RG	Count
L-N-0E	1043	60	-	1	400
1E	1044	62	-	1	380
2E	1045	57	-	1	430
3E	45	53	-	1	470
4E	46	55	-	1	450
5E	1047	52	-	1	480
6E	49	50	-	1	500
7E	1054	50	-	1	500
8E	1100	42	-	1	580
9E	1102	41	-	1	590
10E	1104	25	-	1	750
11E	06	21	-	1	790
12E	07	32	-	1	680
13E	09	39	-	1	610
14E	1112	35	-	1	650
15E	1121	25	-	1	750
16E	1122	26	+	1	(1260 AD) +
17E	25	46	-	1	540
18E	1126	44	-	1	560
19E	1127	35	-	1	650
LINE 9 NW					
0 W	1141	32	-	1	680 (pp. 125' ESE MARGIE LOCATION)
1 W	1151	46	-	1	540
2 W	54	22	-	1	780
3 W	55	27	-	1	730
4 W	1200	34	-	1	660
5 W	1218	24	-	1	760
42 6 W	1220	42	-	1	580
7 W	1222	08	-	1	920

Page 3
4

AUG 17 1972

60512

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

STA	TIME	δ	POL	RG	Corrd
8W	1225	38	-	1	620
9W	1227	38	-	1	620
10W	1235	43	-	1	570
11V	36	45	-	1	550
12W	37	43	-	1	570
13W	38	48	-	1	520
14W	1240	50	-	1	500
15W	42	51	-	1	490
16W	1245	54	-	1	(50°N 75°W - NW COR. NEVADA)
17W	1250	50	-	1	500
18W	51	53	-	1	470
19W	53	56	-	1	440
20W	53	51	-	1	490
21W	1254	57	-	1	430
BASE 1	1300	61	-	1	390

Page 4 of 4

AUG. 17, 1972

7 OF 12

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

LINE 7 NW -

STA	TIME	8	POL	RG	Cond
0 E	1331	55	-	1	450
1 E	1336	51	-	1	490
2 E	37	63	-	1	370
3 E	1341	50	-	1	500
4 E	43	51	-	1	490
5 E	45	50	-	1	500
6 E	47	52	-	1	480
7 E	48	47	-	1	530
8 E	1350	45	-	1	550
9 E	54	42	-	1	580
10 E	1356	46	-	1	540
11 E	58	43	-	1	570
12 E	1400	44	-	1	560
13 E	1401	45	-	1	550
14 E	62	44	-	1	560
15 E	1403	42	-	1	580
16 E	1405	42	-	1	580
17 E	1406	40	-	1	600
Box 2	1415	35	-	1	(AUG 17, 1972)
0 SE	1420	47	-	1	530
1 SE	21	50	-	1	500
2 SE	22	42	-	1	480
3 SE	23	26	-	1	740
4 SE	25	24	-	1	760
5 SE	26	31	-	1	690
6 SE	27	28	-	1	720
7 SE	1427	37	-	1	630
428	28	42	-	1	580
9 SE	29	43	-	1	570

Page 1 (Line 7 Box 2)

8 OF 12

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

AUG 17 1972

STA	TIME	δ	POL	RO	Count
10 SE	1429	42	-		580
11 SE	30	43	-		570
12 SE	31	47	-		530
13 SE	33	41	-		590
14 SE	34	38	-		620
15 SE	1435	44	-		560
16 SE	36	43	-		570
17 SE	37	17	-		(DRILL ⁸³⁰ HOLE)
18 SE	40	46	-		540
19 SE	1441	43	-		570
20 SE	42	38	-		620
21 SE	43	45	-		550
22 SE	1453	42	-		580
23 SE	53	45	-		550
24 SE	54	46	-		540
25 SE	55	43	-		570
26 SE	56	38	-		620
27 SE	56	42	-		580
28 SE	1457	38	-		620
29 SE	58	44	-		560
30 SE	58	47	-		530
31 SE	59	32	-		680
32 SE	59	60	-		400
33 SE	1500	52	-		480
34 SE	01	45	-		550
35 SE	02	49	-		510
36 SE	03	47	-		530
42 37 SE	04	61	-		390
38 SE	1505	46	-		540

Page 2 (BASE 2)

AUG 17, 1972

9 OF 12

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

STA	TIME	δ	POL	RG	Comp
3152	1505	46	-	1	540
40	1507	48	-	1	520

LINKS	TIME	δ	POL	RG	Comp
0 W	1520	48	-	1	520
1 W	21	48	-	1	520
2 W	1524	47	-	1	530
3 W	1535	51	-	1	490
4 W	1537	52	-	1	480
5 W	1540	42	-	1	580
6 W	44	54	-	1	460
7 W	1545	43	-	1	570
8 W	48	50	-	1	500
9 W	1559	52	-	1	480
10 W	1559	52	-	1	480
BASE 1	1610	58	-	1	420

Page 3 (BASE 2) & LINE 10

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10 OF 12

AUG 18 1972

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

STA	TIME	δ	POL	RG	BATTERY CHANGE
BASE 1	0830	57	-	1	
LINE 8					
0	0917	50	-	1	500
1	18	49	-	1	510
2	20	52	-	1	480
3	0924	51	-	1	490
4	0934	48	-	1	520
5	36	52	-	1	480
6	37	51	-	1	490
7	0945	49	-	1	510
8	0947	48	-	1	520
LINE 6					
0	0955	56	-	1	440
1	56	48	-	1	520
2	58	46	-	1	540
3	1000	30	-	1	700
4	1003	26	-	1	740
5	05	52	-	1	480
6	07	53	-	1	470
7	1010	46	-	1	540
8	12	51	-	1	490
9	14	55	-	1	*BASE LINE
10	1018	57	-	1	430
11	1026	60	-	1	400

110012

AUG 18 1972

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

STA	TIME	R60	POL	R6	Cond
Line 4					
0E	1022	48	-	1	
1E	1024	31	-	1	
2E	25	61	-	1	X B.L. 1
3E	1035	52	-	1	
4E	36	54	-	1	LOC MON ELZ BITH 4
5E	1043	52	-	1	
6E	1045	35	-	1	
Line 4 RR					
0W	1055	57	-	1	430
1W	58	55	-	1	450
2W	1100	57	-	1	430
3W	1103	51	-	1	490
4W	1105	56	-	1	X B.L. +25
5W	1107	53	-	1	470
6W	1108	57	-	1	430
BASE 1	1115	62	-	1	380

12 of 12

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

AUG 18, 1972

STA LINE Z	TIME	δ	POL	RG	amt
0 E	1158	53	-	1	470
1 E	59	47	-	1	X Base ⁵³⁰ L. 1
2 E	1200	31	-	1	690
3 E	1202	38	-	1	620
4 E	04	57	-	1	430
5 E	1205	52	-	1	480
L-0 0 W	1213	50	-	1	500
1 W	1216	57	-	1	430
2 W	1218	47	-	1	530
3 W	1220	53	-	1	X Base ⁴⁷⁰ L. 1
4 W	1224	52	-	1	480
5 W	1225	54	-	1	460
6 W	26	54	-	1	460
7 W	27	53	-	1	470
8 W	1228	55	-	1	450
9 W	1229	57	-	1	430
LINE 2 NORTH					
0 E	1230	57	-	1	430 ON Base 4. 1
1 E	31	57	-	1	430
2 E	32	52	-	1	480
3 E	1233	56	-	1	440
4 E	1234	55	-	1	50' past SW CORNER NEVADA FRACTION
5 E	1237	52	-	1	480
6 E	38	50	-	1	500
7 E	39	52	-	1	480
8 E	1240	48	-	1	520
4 BASE 1	1305	60	-	1	400

September 6, 1972

Mr. E. Grover Heinrichs
Essex International, Inc.
1704 West Grant Road
Tucson, Arizona 85705

Re: Magnetic Survey
Els-Beth Claims, Morenci,
Arizona, GEOEX Job #739

Dear Grover:

Attached are three copies of the magnetic survey results obtained on August 16, 17, and 18, 1972 on your Els-Beth Claims 1 through 5 in partial fulfillment of the annual assessment requirements. These five claims are in the Morenci-Metcalf area in Greenlee County, Arizona near the southeast corner of Section 3, T. 4 S., R. 29 E. The field work was done by Mr. James Bauersachs, geophysical crew chief, accompanied by Mr. Keith Ritchie, technical assistant. Technical project supervision was by Mr. Chris Ludwig, Senior Geophysicist, with overall supervision and Management by Mr. Walter E. Heinrichs, Jr., President and General Manager.

A vertical intensity, hand-held, flux-gate type Jalander Magnetometer was utilized to obtain the data, having an approximate maximum sensitivity of +/- 10 gammas.

Fourteen magnetometer traverses were run giving a total of 235 stations. A plan map is presented herewith showing the magnetometer traverses, stations and magnetic values in gammas as an overlay to the 1"=500' (approximate) photograph enlargement you supplied us. The magnetic values are referenced to an arbitrary magnetic datum of 470 gammas at the base station.

Page Two
September 6, 1972
Mr. E. G. Heinrichs

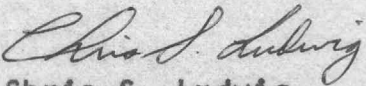
Magnetically, of note, is the complex 1200 gamma high on line 13 NW about 300 feet southwest of Road Line 2. This high appears to have a shallow source (less than 100 feet below surface) and likely continues southeast to Lines 11 NW and 9 NW. Except for several probably insignificant, one or two station anomalies, the remainder of the area covered is quite flat magnetically.

Two stations on the road lines were questioned due to being near artificial magnetic sources, i.e., drill hole casing and trash.

The total billing on this project is at least \$681.15.

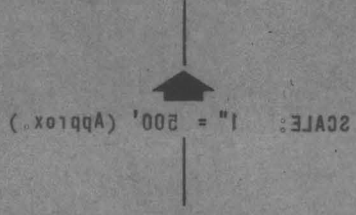
Respectfully submitted,

HEINRICHS GEOEXPLORATION CO.


Chris S. Ludwig
Senior Geophysicist

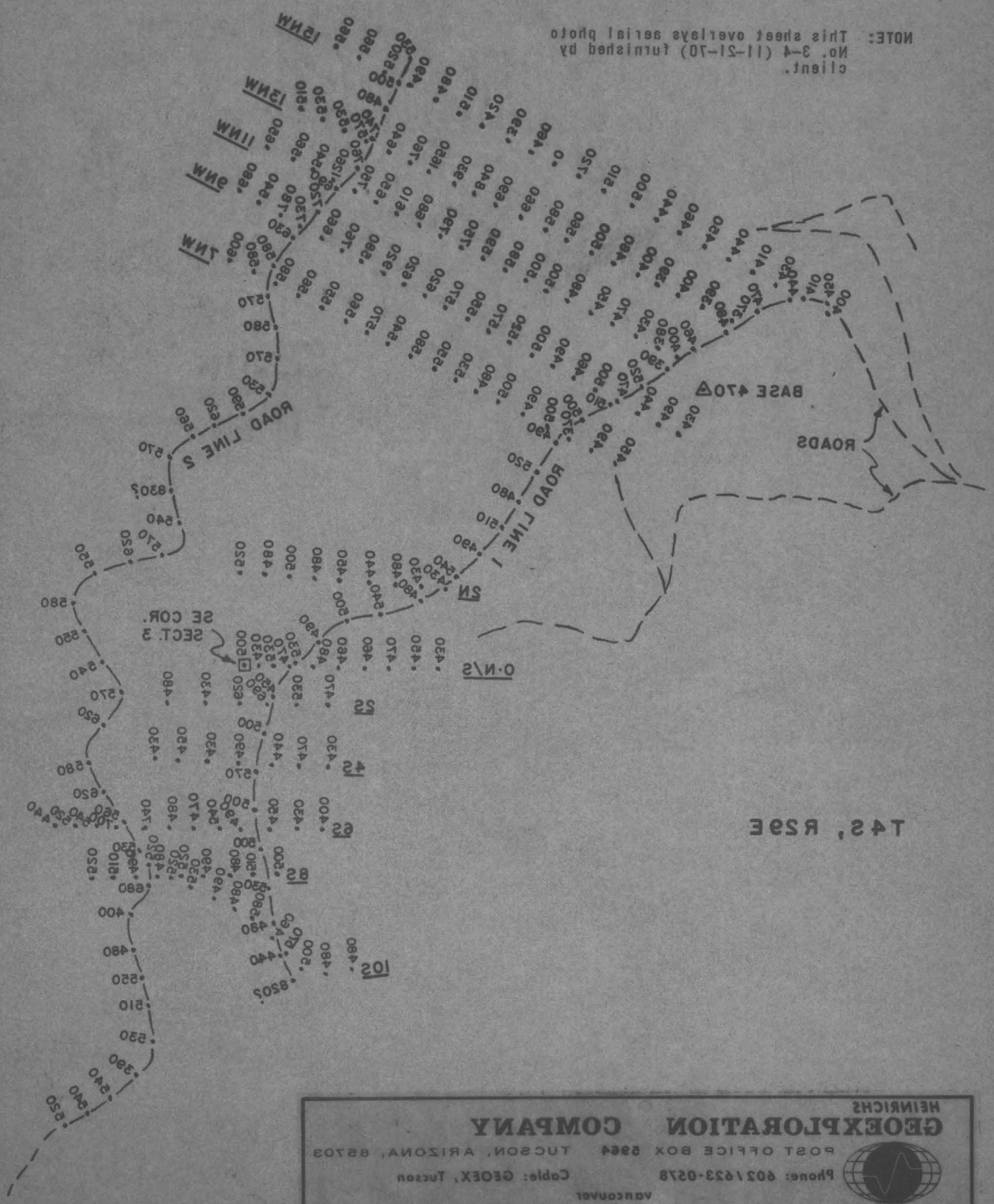
ENCLOSURE

VERTICAL INTENSITY MAGNETIC PLAN
 of
 EL2-BETH CLAIMS 1 THRU 5
 GREENLEE COUNTY, ARIZONA
 for
 ESSEX INTERNATIONAL, INC.
 by
 HEINRICHS GEOEXPLORATION COMPANY
 Job number 738-72 August 1972



Magnetic Station & Value in Gammas
 Line Number

NOTE: This sheet overlays aerial photo
 No. 3-4 (11-21-70) furnished by
 client.



T 42, R 22E

HEINRICHS
GEOEXPLORATION COMPANY
 POST OFFICE BOX 5244 TUCSON, ARIZONA, 85703
 Phone: 602-623-0278
 Cable: GEOEX, Tucson
 vancover
 sydney
 geophysical engineers

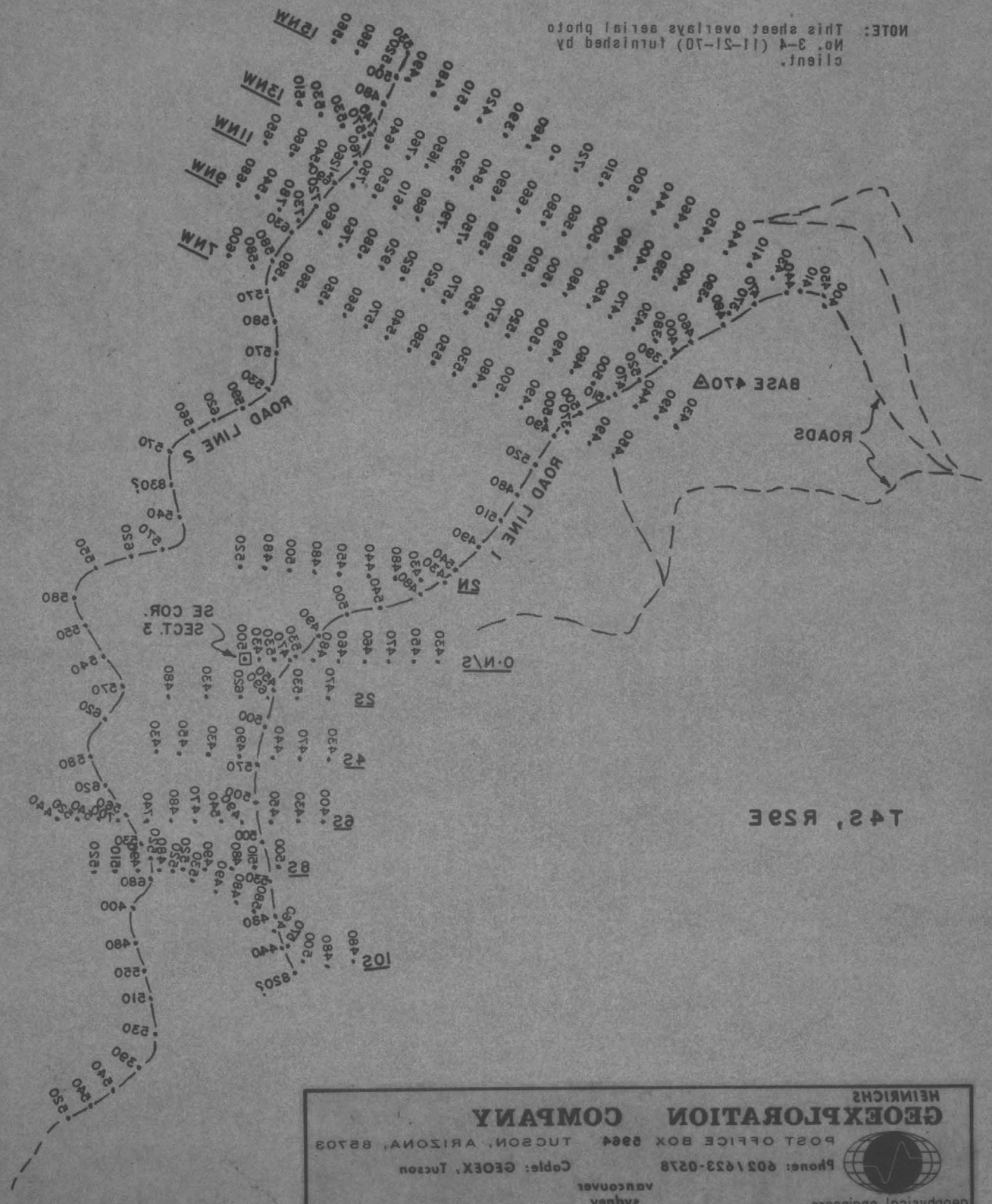
HEINRICHS GEOEXPLORATION COMPANY
 ESSEX INTERNATIONAL, INC.
 GREENLEE COUNTY, ARIZONA
 ELS-BETH CLAIMS 1 THRU 5
 of
 VERTICAL INTENSITY MAGNETIC PLAN

SCALE: 1" = 500' (Approx.)



TNW Line Number
 Magnetic Station & Value in Gammas

NOTE: This sheet overlays aerial photo
 No. 3-4 (11-21-70) furnished by
 client.



T 4 2 , R 3 2 E

HEINRICHS
GEOEXPLORATION COMPANY
 POST OFFICE BOX 8864 TUCSON, ARIZONA, 85703
 Phone: 602 1423-0278
 Cable: GEOEX, Tucson
 Geophysical engineers

HEINRICHS GEOPHYSICAL ENGINEERS
 1000 North 17th Street
 Phoenix, Arizona 85016
 August 1972
 Job number 739-72

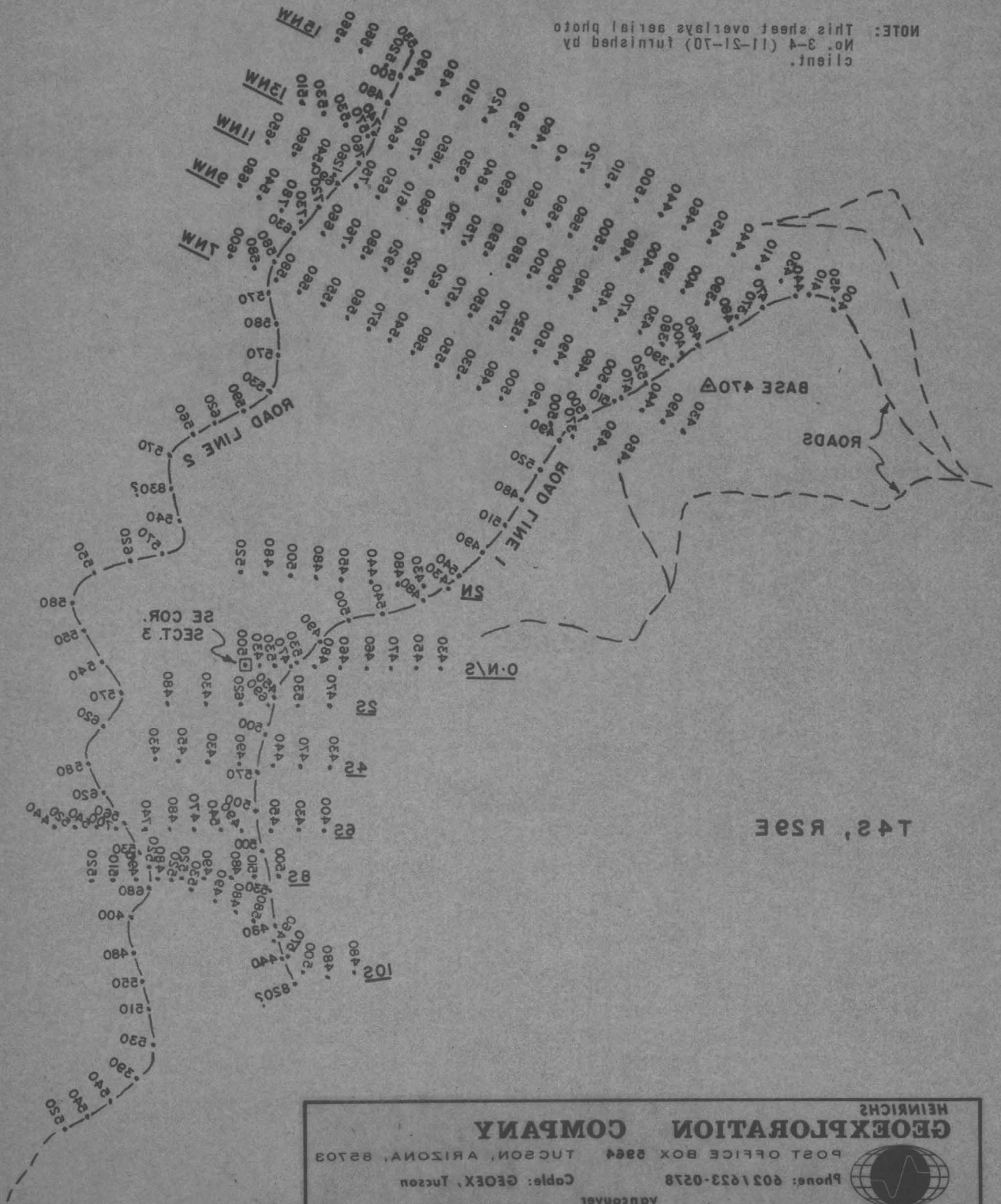
ESSEX INTERNATIONAL, INC.
 by
 HEINRICHS GEOPHYSICAL ENGINEERS

VERTICAL INTENSITY MAGNETIC PLAN
 of
 EL2-BETH CLAIMS 1 THRU 5
 GREENLEE COUNTY, ARIZONA

Magnetic Station & Value in Gammas
 Line Number

SCALE: 1" = 500' (Approx.)

NOTE: This sheet overlays aerial photo
 No. 3-4 (1-21-70) furnished by
 client.



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 GEOPHYSICAL ENGINEERS**

POST OFFICE BOX 5264
 TUCSON, ARIZONA, 85703

Phone: 602 423-0278
 Cable: GEOEX, Tucson

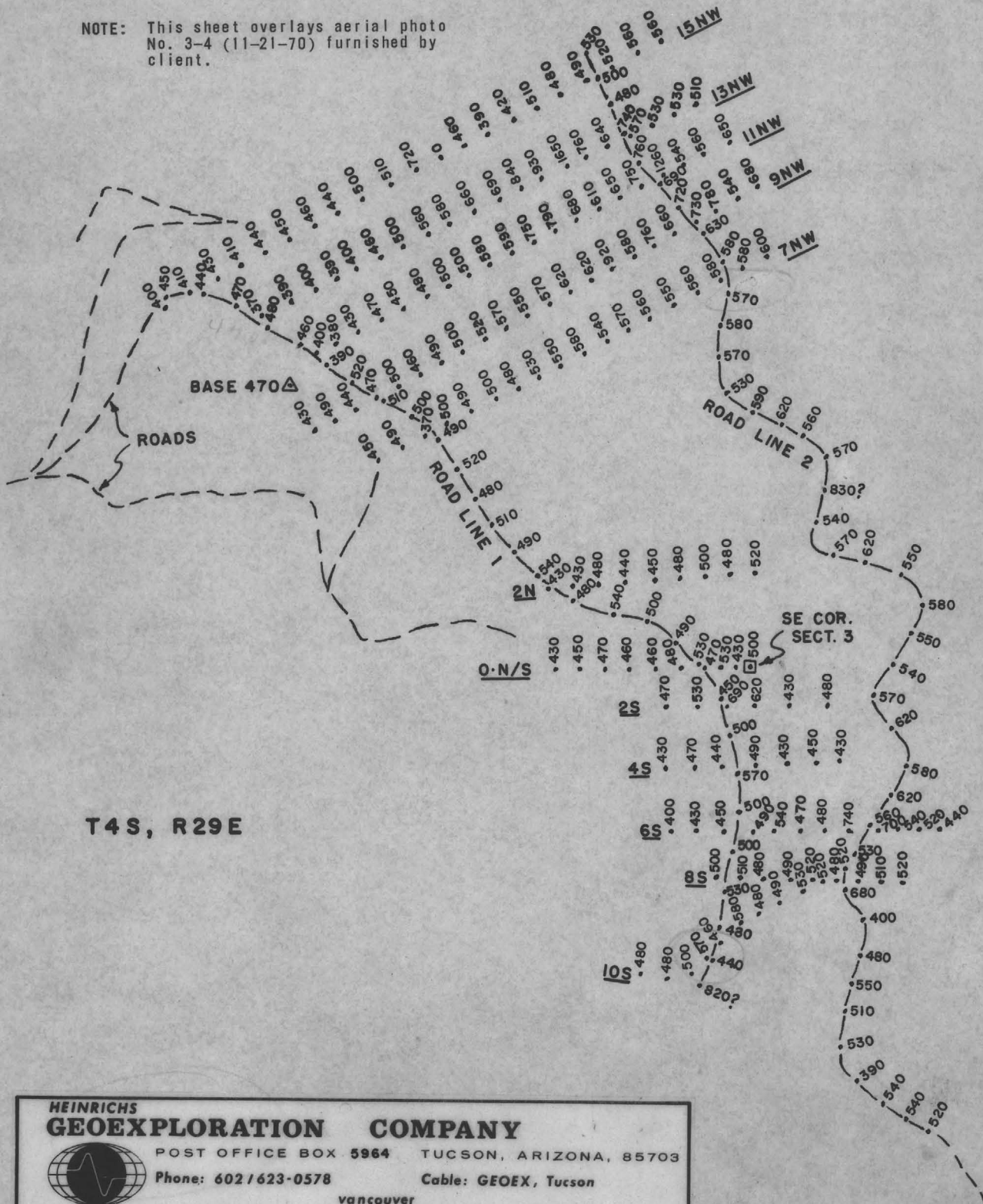
Geophysical engineers

VERTICAL INTENSITY MAGNETIC PLAN
of
ELS-BETH CLAIMS 1 THRU 5
GREENLEE COUNTY, ARIZONA
for
ESSEX INTERNATIONAL, INC.
by
HEINRICHS GEOEXPLORATION COMPANY
Job number 739-72 August 1972

SCALE: 1" = 500' (Approx.)

• 570 Magnetic Station & Value in Gammas
7NW Line Number

NOTE: This sheet overlays aerial photo
No. 3-4 (11-21-70) furnished by
client.



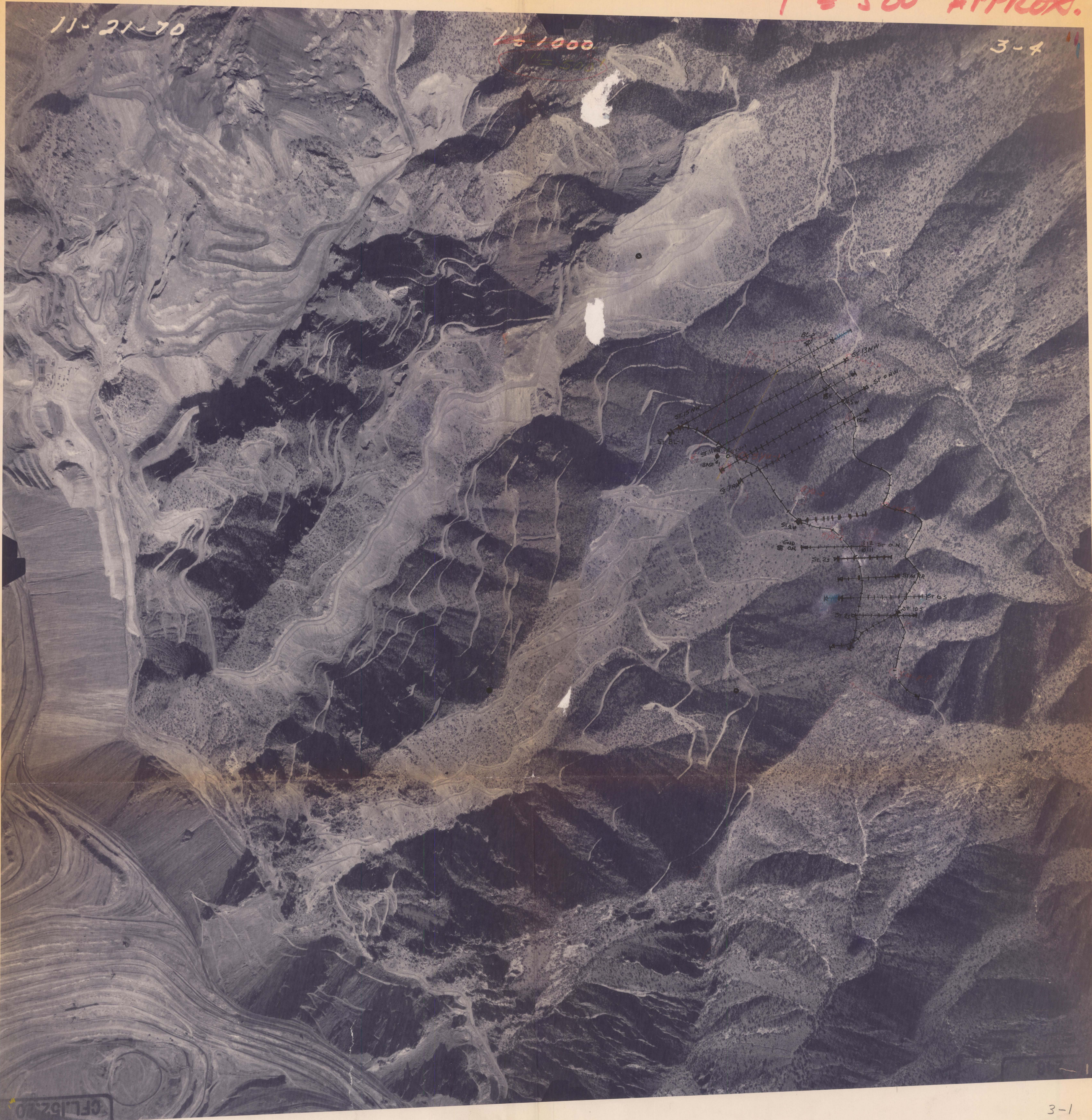
HEINRICHS GEOEXPLORATION COMPANY
POST OFFICE BOX 5964 TUCSON, ARIZONA, 85703
Phone: 602/623-0578 Cable: GEOEX, Tucson
geophysical engineers vancouver sydney

11-21-70

1" = 500' APPROX.

1" = 1000

3-4



07L19270

3-1