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Preliminary Reconnaissance

Magnetic Survey

Garritson Placer Mine Area

Section 16 T.29N., R.17W.

U.S.G.S. Garnet Mountain Quad.

Mohave County, Arizona

for

Garritson Mining Enterprises

Scottsdale, Arizona

by

Heinrichs GEOEXploration Company, (Inc.)

P.O. Box 5964

Tucson, AZ 85703
May 1984

Job #1682

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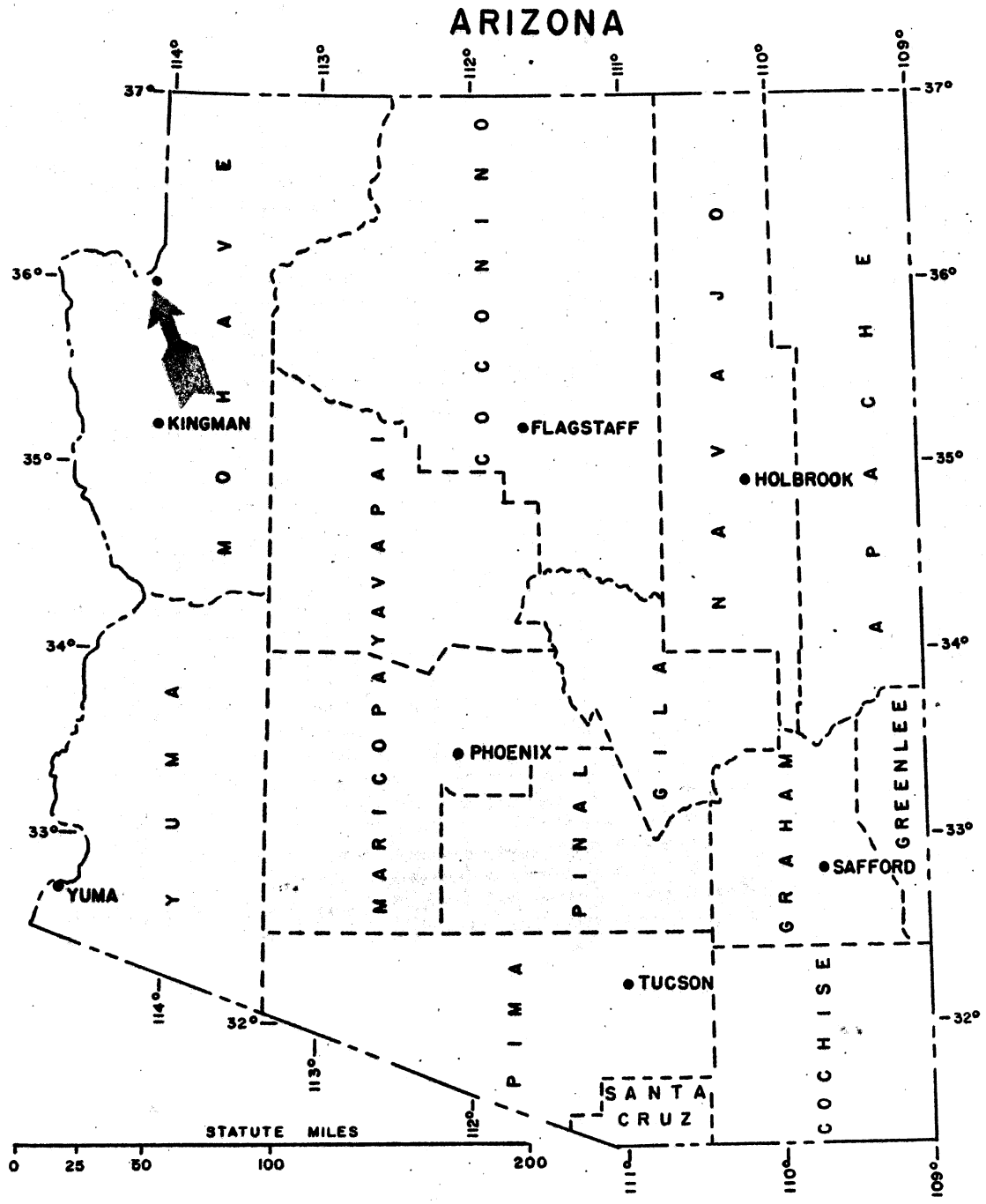
GENERAL LOCATION OF

GARRITSON PLACER MINE AREA
MOHAVE COUNTY



GEOEX #1682

May 1984

HEINRICHS GEOEXPLORATION COMPANY
806 W. GRANT RD., P.O. BOX 5964 TUCSON, ARIZ. 85703. PH: (602) 623-0578

Preliminary Magnetic Survey
Garritson Placer Mine
Mohave County,
Arizona

INTRODUCTION

At the request of Mr. Andy Garritson and Mr. Ken Garritson, of Garritson Mining Enterprises and of Scottsdale, Arizona and Yucca Valley, California respectively, Heinrichs GEOEXploration Company. conducted a multiple line magnetometer survey in the S1/2, SE1/4, NE1/4 and N1/2,NE1/4,SE1/4 of Section 16 in T.29N., R.17W., Mohave County, Arizona about 50 miles northwest of Kingman, Arizona. Terrain relief was less than 100 feet and was made up of low rolling hills at an elevation of about 4000 feet. Floral cover includes typical high desert growth such as small bushes, yucca, sage, and cactus. U.S.G.S., 15' Garnet Mountain quadrangle covers the area.

Field work was done for three days during the interim April 30 through May 4, 1984, with Mark E. Anders, geophysicist-geologist as the GEOEX representative. A total of over 700 observations were read, averaging 245 readings per day in the field. Some time was spent outside of the survey area investigating bedrock characteristics and faulting etc. Mr. Ken Garritson had previously laid out and flagged the station grid system on the ground and also helped during the survey, including providing house trailer accommodations and boarding.

Purpose of the work was to delineate subsurface geological features, with particular emphasis on locating bedrock and concentrations of magnetite within the upper alluvial section which might correlate with concentrations of placer gold which invariably have included considerable magnetite.

PROCEDURES

A Geometrics G-816 magnetometer S/N 446, with 1 gamma accuracy was employed. A zero north-south base line was set up through the center of the area running east-west. Readings were taken every 25 feet on a grid of 12 N-S lines perpendicular to the base line and 100 feet apart, with each line being at least 1200 feet in length. Further, more detailed, work was added later. A common base station was set up at the center of the grid at the common corners of claims 2,3,6,7 and base readings were taken approxinatly every 2 hours in order to correct the magnetic data, due to changes in the earths magnetic field. These diurnal corrections are made by determining the amount of change in the magnetic field over a time period and adding or subtracting the change at a certain time to a data point reading that was collected at that same time.

Data results are presented in plan which is contoured to a 25 gamma contour interval and in profile with a scale of 1"=100' horizontal in both plan and profile and 100 gammas vertical on the sections.

INTERPERTATION

The data show some very definite magnetic highs and lows that trend slightly off of due east-west in a NE-SW direction. These highs and lows generally parallel the trend of the local ridges and washes but are somewhat offset. Care must be taken in assuming that there is a greater amount of magnetic material under the highs than under the lows. Until we learn more about the local nature of the magnetite effects. In some cases it could be either the highs or lows or both or, the slope intercepts between the two. Possible faulting can be infered from the local geology and the magnetic data, especially in the NE-SW direction and this may be instrumental in the formation of the washes. Faulting in other directions is also evident.

The most pronounced magnetic relief was found over the southern 1/3 of the survey which may indicate a slightly higher concentration of magnetic material in that portion of the area. However, there is also some of the higher magnetic relief in the northern portion of the survey area as well. The effect difference may mean a change in bedrock character or, the bedrock may simply be a little closer to the surface under the areas of higher magnetic relief or a combination of both.

As may be noted on the accompanying contour plan of the magnetic data, the most prominent lineation trend is in a NE-SW direction, roughly parallel to the local topographic features, ie, ridges and washes. However it is also desirable to discuss in some detail a few of the specific magnetic anomalies or anomalism noted on each profile.

Starting consecutively with Line 1 first and commenting from left to right , we have a possible boulder or concentration of magnetite lying within the alluvium or within the crystalline bedrock centered at station 440' south and lying no deeper than about 40 feet. Another anomaly appears centered at station 25' south, no deeper than 50 feet deep and a third one at station 475' north maybe as little as 25' deep or less. Going back to near the center of the line, a bedrock fault and/or a sudden slight thickening of alluvium in a northly direction occures at about station 50' north.

Line 2 is relatively flat. One small low centers at station 275' south reflective of something less than 25' deep. The fault and possible slight thickening of alluvial cover shows again at station zero N-S.

Line 3 shows at least 1/2 dozen small anomalies. The strongest one is centered at about station 315' south and appears to dip southerly from a depth of less than 40'. Again, a fault effect appears at station 50' south with a definite overall level change and gradient difference between north and south portions of the profile.

Line 4 Effects are stronger than lines 1 thru 3, especially over the southern half of the line. The fault, definitely indicated on lines 1 thru 3, is less certin on line 4, but may go thru at station 50' north. However, the strongest anomaly centered at station 185' south appears to be the same feature as seen at station 315' south on line 3 and similarly to the southern end of both lines. Such a strong correlation of character from line to line and over such a length of line in both cases, suggests that these stronger and broader features may be primarily reflective of effects within the crystalline bedrock rather than solely within the overlying Quaternary alluvium and/or Tertiary Muddy Creek Group. However, there are also integrated shallow effects as well but, these are harder to separate out at this stage of our knowledge of the area. Depth is probably 35' or less but, could be up to 50' if related only to the larger bedrock features.

Line 5 Shows the same feature of similar character response near station 200' south and other larger type features to the south and north as well and possibly the fault(?) again, at station 110' south.

Line 6 Shows the same feature of similar character response near station 200' south and other larger type features to the south and north as well and possibly including the fault at station 93' south. At staton 600' south is a sharp low, down to 51,282 gammas, which is probably caused by something less than 25 feet deep which could be a concentration of magnetite in bedrock or alluvium or a combinaion of both.

Line 7 Shows the same feature of similar character response near station 200' south and other larger type features to the south and north as well, and suggests possible faulting or formational change in bedrock character near staion 110' south. The sharp high of 51,570 gammas as centered at station 475' south is probably less than 38 feet to its source which could be a magnetite concentration.

Line 8 Shows the same feature of similar character response near station 200' south and other larger type features to the south and north as well, and suggests possible faulting or formational change in bedrock character near staion 100' south. The sharp peak high at station 575' south is probably due to a source less than 25 feet deep which could be a concentration of magnetite.

Line 9 Same as line 8 except that the structual or stratigraphic demarcation point is at station 150' south.

Line 10 Similar character features project from line 9 execept that some higher gradients are observed which could mean that the bedrock is closer to the surface.

Line 11 Ditto, except gradients are about the same as line 10. If a main structural or stratigraphic break is involved, it may center at about station 425' south.

Line 12 Ditto, except break is about 400' south (if one actually exists). The peak anomaly of 51,600 gammas, as a high at the extreme south end of the line at station 600' south, may warrant special attention.

Line 12 continued: Depth to source may be less than 25' and, it could be considerably less. Cause may be bedrock magnetite or alluvium concentration or both in some combination. Included is the possibility of magnetite in pegmatite dikes.

A few short profiles of detailed, repeat, or fill in work were run. Additional or new small and shallow (less than 25' deep) negative anamalies were indicated on lines 1.25 and 1.5 at stations 275' south, line 1.75 at station 262.5' south, line 2.25 at station 225' south, and line 2.5 at station 275' south. Most interesting of all this extra data is the peak high of 51,625 gammas at station 262.5' south on line 5 and the lows at station 262.5' south on line 1.75 and station 275' south on line 2.5 respectively. Again, the causes may be bedrock magnetite or alluvial concentration or some combination of both including magnetite in pegmatite dikes.

RECOMMENDATIONS & CONCLUSIONS

The data seems to show some direct bedrock effects identifiable as such. Definite concentrations of alluvial magnetite, however, are not quite as easy to positively identify with out further confirmation and correlation as to character of response, especially at this stage of our knowledge of the area. Additional correlation work with past and/or with future known digging results should help to resolve this question eventually. More detailed work, maybe at station intervals of 5' should also be helpful, especially if test results over known favorable occurrences of magnetite concentrations were to yield more definite and positive results than indicated so far.

Our initial approach was necessarily somewhat wildcat in nature. Tentively, what we may have learned is that a 25 foot station spacing may be a little too coarse to adequately detect and positively identify the sort of concentrations of magnetite sought for potential placer association. But, until more testing is done, this conclusion may be premature.

Visual projected estimates from observed bedrock outcrops near the survey area suggest true bedrock depths within the survey area of 100 feet +/- 75 feet, ie, 25 feet to 175 feet. Verbal reports have indicated back hoe tests reporting bedrock as little as 15 feet deep.

Magnetic depth estimates run from 25' +/- 20 feet to 50' +/- 45 feet deep which are deemed comparable in a conservative sence for this sort of projection and comparsion.

Since our indications suggest the possibility of fairly shallow bedrock at least in some places, it would be most helpful if that could be at least partly confirmed on some other independent basis. In this connection, portable light duty shallow hole drilling rigs should be considered and perhaps tested as well as backhoe work.

We have not attempeted here to discuss each and every high, low and slope intercept anomaly that appears on the magnetic profiles but, we are prepared to discuss everyone as its particular significance or interest and definite association becomes identified. Use of the term slope intercept refers to the point on the slope where the direction of the gradient changes between immediately adjacent high and low responses which are all part of a single source related anomaly. Other anomalies of course may also be isolated single highs or lows.

Acknowledgements

We wish to thank both Garritson brothers for their patient explanation of their objectives and listening to our explanations of the method and procedures. Special thanks go to Ken Garritson for his help in the field. We also appreciate the kind indulgence and understanding in awaiting the completion of this report and hope that this will result in providing more for the money. Mean while, your comments and questions are always solicited and welcome.

Faithfully
Heinrichs GEOEXploration Co. (Inc.)

Registered Professional Engineer (Mining)
CERTIFICATE EXPIRES
WALTER E. HEINRICHS, JR.
DEC. 31, 1984
ARIZONA, U.S.A.

by: Mark Anders
Geophysicist-Geologist

Walter E. Heinrichs Jr.
Geol. Engr. Geop., P.E. & G.P.G.S.

WALTER E. HEINRICHS
ASSOCIATION OF PROFESSIONAL GEOLOGICAL SCIENTISTS
GPGS
688

HEINRICHS GEOEXPLORATION COMPANY

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

June 15, 1984

Garritson Mining Enterprizes
6529 Shea Blvd.
Scottsdale, AZ 85254

Re: Magnetometer Survey
Mohave County, AZ
GEOEX #1682

Attn: Andy or Ken Garritson

Dear Andy & Ken:

When you were in Tucson on 4 June 1984 to pick up and discuss our report, we mentioned sending you a letter regarding the results of our magnetic tests of the coarse and finer black sand fractions and various rock samples you left with us after earlier Tucson visits and when I met with you briefly in Scottsdale while enroute to Prescott. This information should be kept with copies of our report for future reference purposes. Accordingly, we will enclose three copies. Also, I will enclose another copy of the NW Mining Association paper on use of magnetometer work on placer deposits as promised before.

The finer black sand was highly magnetic but, exhibited no polarization effects.

The coarser (fine pebble material) both magnetite and hematite was strongly magnetic but, also retained some polarization though perhaps not as much as the magnetitic pegmatite.

All of the magnetic pegmatite was very highly magnetic and polarized.

The sawn piece of brecciated quartz-hematite vein material (?) was very weakly or nil magnetic.

A small piece of meta-granitoid (gneiss (?)) was moderately magnetic but no apparent remnance or polarization.

One piece of meta-igneous, gabbro or pyroxenite (?)(greenstone) was moderately magnetic with no apparent remnance.

A dark fine-grained metamorphic rock, amphibolite schist maybe (?) was strongly magnetic and polarized.

The fact that some of the rocks, (bedrocks (?)) are so strongly magnetic, tends to confuse the issue a little.

All of this seems to suggest that considerably more correlation work with rock types, magnetite and magnetic response needs to be done before we can take the next step to interpret the data obtained so far to its fullest. Maybe, as you uncover more sites, things will begin to sort out better. In this connection, I wonder if when and as you do uncover new sites if it would be worth while to collect a five or ten pound bag of typical rocks encountered at each site. If such samples were representative enough of the whole, they might gradually help to tell us something more than we know now.

Also we have a couple of old vertical component fluxgate magnetometers called Jalanders. They weigh three pounds each, hang by a leather strap around your neck and have a meter read out. Sensitivity is less than the G816, i.e. +/- 10 gammas but, enough to be quite useful to quickly test each of your cuts with a few short lines as you go along - right away in the field. You might think about this. The Jalanders rent for $375.00 per month each, not including batteries which are the old non-steel AA or AAA cells. They are not hard to learn to use properly.

In any event, please keep in touch as to how things go along as we will get more ideas as we get quantitative feed back from you.

Warmest best wishes,

Faithfully,
Heinrichs GEOExploration Co., Inc.

W.

Walter E. Heinrichs, Jr., President

Encl: 3

P.S.: It bothers me that we cannot explain why the treasure finders sing around some of the rocks without any apparent reason. Conceivably, finding the solution to this mystery could be important otherwise. I am certain that there is a logical explanation. W.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

UNITED STATES
DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

GARNET MOUNTAIN QUADRANGLE
ARIZONA–MOHAVE CO.
15 MINUTE SERIES (TOPOGRAPHIC)

Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography from aerial photographs by photogrammetric methods
Aerial photographs taken 1958. Field check 1960

Underwater contours compiled from USDA maps and later sedimentation studies

Polyconic projection. 1927 North American datum
10,000-foot grid based on Arizona coordinate system, west zone
1000-meter Universal Transverse Mercator grid ticks, zone 11, shown in blue

Land lines unsurveyed in parts of T. 29 N.–R. 18 W., and T. 30 N.–Rs. 17 and 18 W.

UTM GRID AND 1960 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:62 500

CONTOUR INTERVAL 80 FEET
DOTTED LINES REPRESENT 40-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225 OR WASHINGTON, D. C. 20242
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

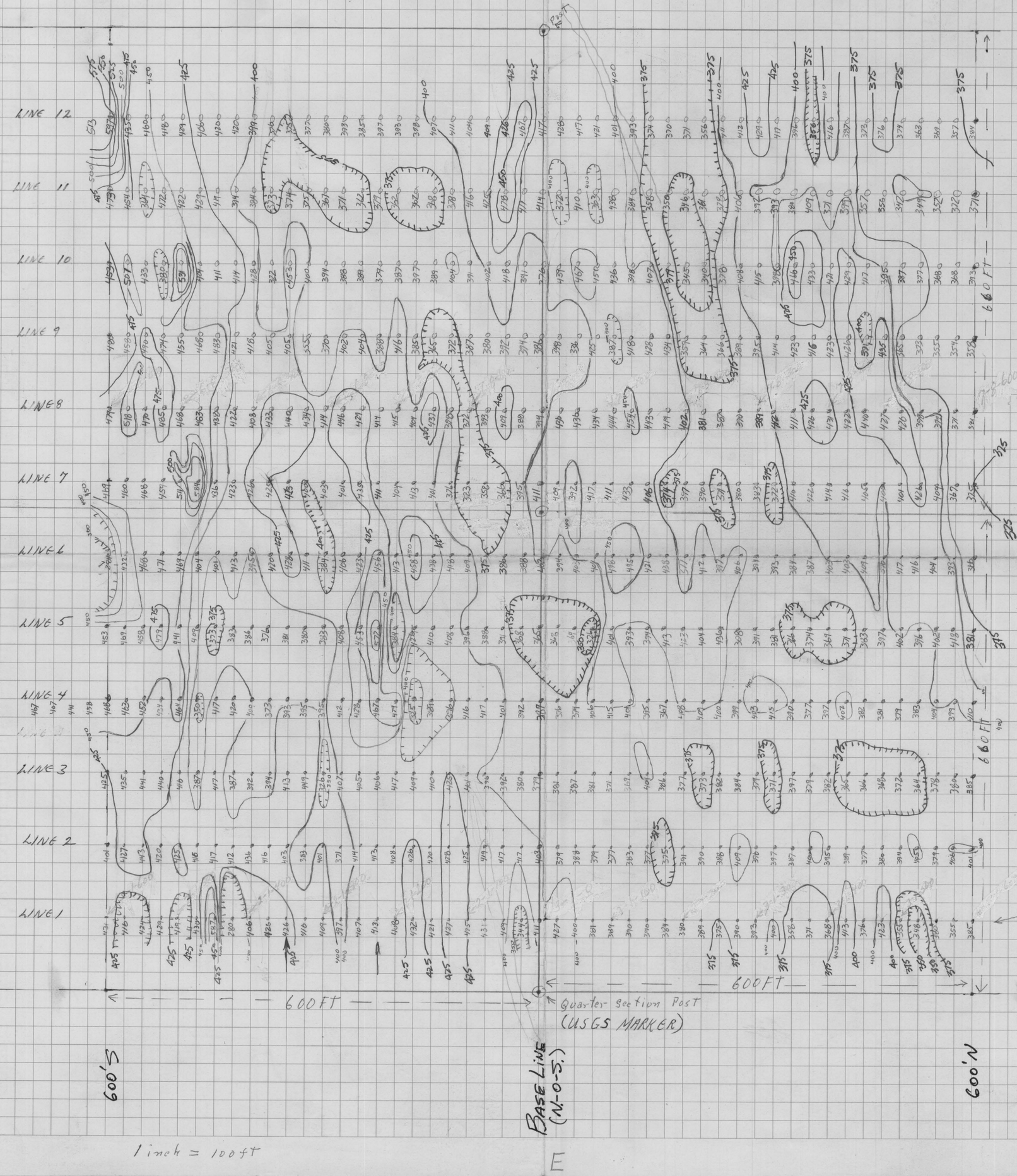
ROAD CLASSIFICATION
Light-duty ——— Unimproved dirt - - - -

WIDE WORLD OF MAPS INC.
DBA ARIZONA MAP SHOP & GALLERY
1526 N. SCOTTSDALE RD.
TEMPE, AZ 85281

GARNET MTN., ARIZ.
N3545—W11400/15
1960

AMS 3155 I—SERIES V798

Portion of Claims 2-3-6-7
East half of Section 16 - R17W - T29N



NUMBER SYSTEM

3 - 1 - 25

CLAIM No.

LINE No.

DISTANCE (FEET) FROM CENTER LINE

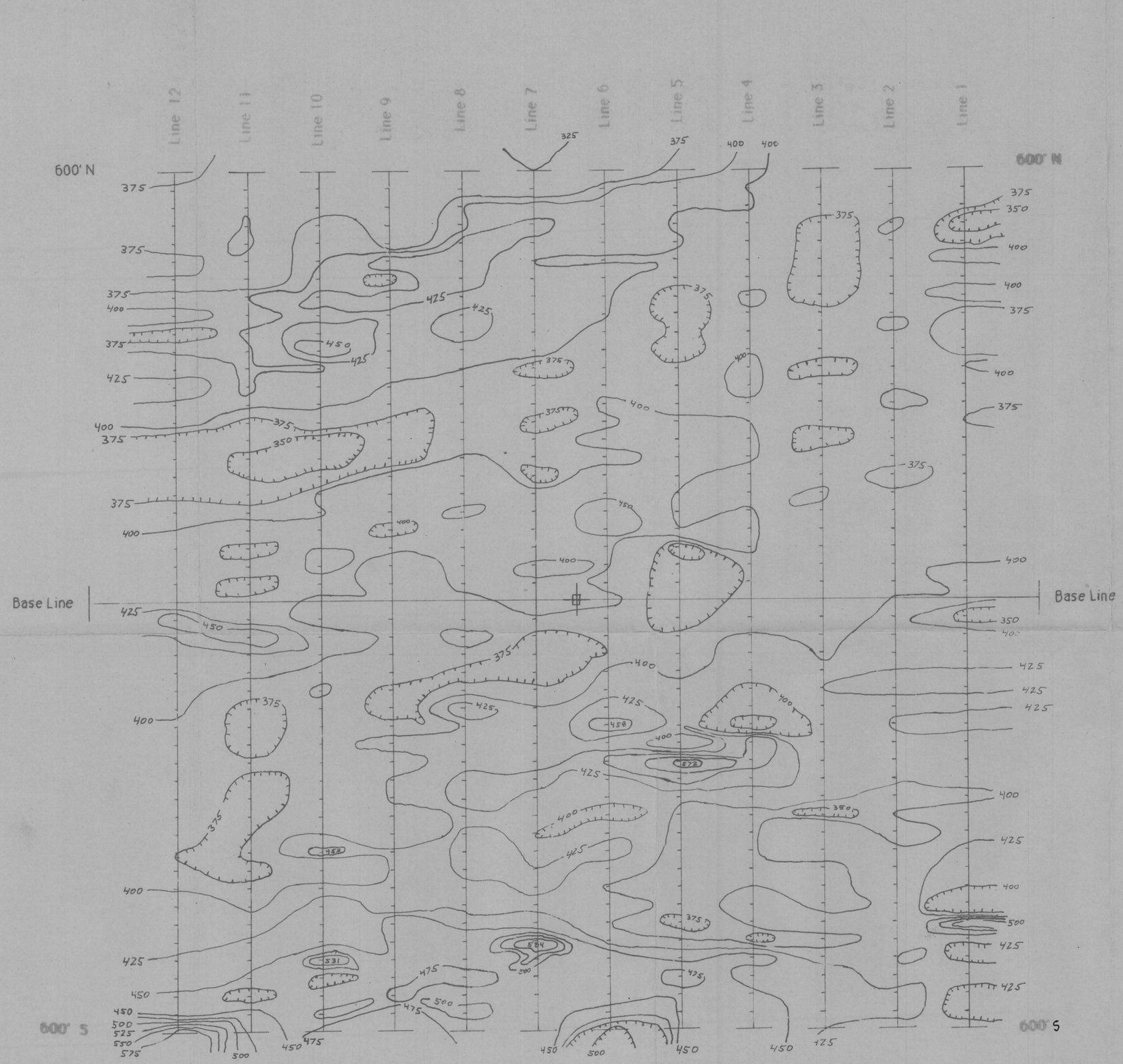
2/3 - 1 - 0 WOULD INDICATE CLAIM CENTER LINE

STAKES SET 25 FT. SPACING ALONG EACH LINE.

100 FT. SEPARATION BETWEEN EACH LINE.

1 inch = 100 ft

AMPAD 22-070 QUADRILLE 4 x 4



Total Magnetic Intensity Contours of Garritson Placer Mine Area for Garritson Mining Enterprises Scottsdale, Arizona

0 50' 100' 200'

Magnetic Lows

Scale: 1" = 100 feet
Contour Interval: 25 gammas (∂)

7 3
6 2

Common Corner of Placer Claims 2-3-6-7

GEOEX EXPLORATION COMPANY
P.O. Box 5964
Tucson, Arizona

May 1984
GEOEX Job # 1682

JOB No. _____ LINE No. 15 PAGE 1
AREA _____ DATE 5-1
INSTRUMENT _____

	STA.	TIME	READING	BASE CORR.	Δt	DRIFT CORR.	VALUE
1	2-1-						
2	~~600~~	7:39		51383			
3	600	7:52	51431	—			
4	575	7:53	51416				
5	550	7:54	51424				
6	525	7:55	51429				
7	500	7:56	51419				
8	475	7:57	51430				
9	450	7:58	51587				
10	425	7:59	51280				
11	400	8:01	51406				
12	375	8:02	51426				
13	350	8:03	51426				
14	325	8:03	51416				
15	300	8:04	51409				
16 WASH	275	8:04	51397				
17 working	250	8:05	51407				
18	225	8:07	51413				
19	200	8:08	51408				
20 WASH	175	8:09	51432				
21	150	8:09	51421				
22	125	8:10	427				
23	100	8:11	425				
24	75	8:11	431				
25	50	8:12	409				
26	25	8:12	344				
	2/3-0	8:13	411				
28							
29							
30							

JOB NO. _____ LINE NO. 1N PAGE 2
AREA _____ DATE _____
INSTRUMENT _____

	STA.	TIME	READING	BASE CORR.	Δt	DRIFT CORR.	VALUE
1	3-1-25	8:14	427				
2	-50	8:15	400				
3	75	8:16	381				
4	100	8:16	389				
5	125	8:17	390				
6	150	8:17	390				
7	175	8:18	384				
WASH 8	200	8:18	380				
9	225	8:19	389				
10	250	8:20	375				
11	275	8:20	390				
12	300	8:21	393				
13	325	8:21	400				
14	350	8:22	358				
15	375	8:23	371				
16	400	8:23	368				
17	425	8:24	413				
18	450	8:24	376				
19	475	8:25	423				
20	500	8:26	355				
21	525	8:26	348				
WASH 22	550	8:27	380				
23	575	8:28	355				
24	600	8:28	385				
25							
26							
28							
29							
30							

JOB NO. _____ LINE NO. 3 ~~23~~ 2N PAGE 3

AREA _____ DATE _____

INSTRUMENT _____

	STA.	TIME	READING	BASE CORR.	Δt	DRIFT CORR.	VALUE
1	3-2-						
2	600	8:32	401				
3	575	8:33	406				
4	550	8:33	379				
5	525	8:34	405				
6	500	8:35	394				
7	475	8:35	380				
8	450	8:36	377				
9	425	8:37	389				
10	400	8:37	395				
11	375	8:39	400				
12	350	8:39	387				
13	325	8:41	397				
14	300	8:41	396				
15	275	8:42	409				
16	250	8:42	388				
17	225	8:43	390				
18	200	8:43	391				
19	175	8:44	375				
20	150	8:45	377				
21	125	8:46	383				
22	100	8:46	377				
23	75	8:47	379				
24	50	8:47	388				
25	25	8:48	379				
26	2/3-200	8:49	403				
28							
29							
30							

WASH

JOB No. _____ LINE No. 2 S PAGE 34
AREA _____ DATE _____
INSTRUMENT _____

	STA.	TIME	READING	BASE CORR.	Δt	DRIFT CORR.	VALUE
1	2-2						
	25	8:49	417				
3	50	8:49	417				
4	75	8:50	419				
5	100	8:51	425				
6	125	8:51	428				
7	150	8:52	420				
8	175	8:53	426				
9	200	8:53	408				
10	225	8:54	413				
11	250	8:54	414				
12	275	8:58	371				
13	300	8:59	401				
14	325	8:59	383				
15	350	9:00	403				
16	375	9:01	416				
17	400	9:01	436				
18	425	9:02	412				
19	450	9:02	417				
20	475	9:03	416				
21	500	9:03	425				
22	525	9:04	420				
	550	9:04	443				
24	575	9:05	427				
25	600	9:06	401				
26	—	9:19	—	385			
28							
29							
30							

PASS

JOB NO. _____ LINE NO. 35 PAGE 5
AREA _____ DATE _____
INSTRUMENT _____

	STA.	TIME	READING	BASE CORR.	Δt	DRIFT CORR.	VALUE
1	—	9:19	—	385			
2	2-3-600	9:46	424	—	-2γ	+3γ	425
3	575	9:47	433		"	+4γ	435
4	550	9:47	439		"	"	441
5	525	9:48	438			"	440
6	500	9:48	414			"	416
7	475	9:49	385			"	387
8	450	9:49	415			"	417
9	425	9:50	385			"	387
10	400	9:50	390			"	392
11	375	9:51	392			"	394
12	350	9:52	411			"	413
13	325	9:53	446			"	448
14	300	9:54	323			+5γ	326
15	275	9:58	404			"	407
16	250	9:59	402			"	405
17	225	9:59	403			"	406
18	200	10:00	414			"	417
19	175	10:00	406			"	409
20	150	10:01	406			+6γ	410
21	125	10:01	421			"	425
22	100	10:02	397			"	401
23	75	10:03	392			"	396
24	50	10:04	388			"	392
25	25	10:04	376			"	380
26	2/3-0	10:4	374			"	379
27							
28							
29							
30							

WASH

JOB NO. _____ LINE NO. 3N PAGE 6
AREA _____ DATE _____
INSTRUMENT _____

	STA.	TIME	READING	BASE CORR.	Δt	DRIFT CORR.	VALUE
1	33-25	10:05	377		-21	+6γ	381
2	-50	10:06	382		"	"	387
3	-75	10:07	377		"	"	381
4	100	10:08	366			+7γ	371
5	125	10:08	364			"	369
6	150	10:08	399			"	404
7	175	10:09	381			"	386
8	200	10:10	371			"	377
9	225	10:10	368			"	373
10	250	10:10	377			"	382
11	275	10:11	379			"	384
12	300	10:11	374			"	379
13	325	10:12	366			"	371
14	350	10:12	392			"	397
15	375	10:13	374			"	379
16	400	10:14	377			"	382
17	425	10:14	358			"	365
18	450	10:15	360			+8γ	366
19	475	10:15	362			"	368
20	500	10:16	366			"	372
21	525	10:16	358			"	364
22	550	10:17	372			"	378
23	575	10:17	374			"	380
24	600	10:18	379			"	385
25							
26							
27							
28							
29							
30							

LOOP 4

LOOP 5

JOB NO. _____ LINE NO. 4N PAGE 7
AREA _____ DATE _____
INSTRUMENT _____

	STA.	TIME	READING	BASE CORR.	Δt	DRIFT CORR.	VALUE
1	3-4						
2	600	10:19	404		-2γ	+8γ	410
3	575	10:20	393		"	"	399
4	550	10:21	398			"	404
5	525	10:21	377			"	383
6	500	10:22	372			+9γ	379
7	475	10:22	374			"	381
8	450	10:23	375			"	382
9	425	10:24	393			"	402
10	400	10:24	390			"	397
11	375	10:25	370			"	377
12	350	10:26	383			"	390
13	325	10:26	408			"	415
14	300	10:27	396			"	403
15	275	10:27	392			"	399
16	250	10:28	393			"	400
17	225	10:28	402			"	409
18	200	10:29	409			+10γ	408
19	175	10:29	357			"	367
20	150	10:30	387			"	395
21	125	10:31	393			"	401
22	100	10:31	407			"	415
23	75	10:32	398			"	406
24	50	10:32	366			"	374
25	25	10:33	368			"	376
26	2/3 E 0	10:34	379			"	387
27							
28							
29							
30							

WASH

WASH

JOB NO. _____ LINE NO. 45 PAGE 8
AREA _____ DATE _____
INSTRUMENT _____

	STA.	TIME	READING	BASE CORR.	Δt	DRIFT CORR.	VALUE
1	24-25	10:34	384		-2	+10	392
2	-50	10:35	393		"	+10	401
3	75	10:36	408		"	+11	417
4	100	10:36	407			"	416
5	125	10:37	387			"	396
6	150	10:37	380			"	389
7	175	10:38	316			"	325
8	200	10:38	470			"	479
9	225	10:42	458			"	467
10	250	10:43	419			"	428
11	275	10:43	402			+12	412
12	300	10:44	385			"	395
13	325	10:44	385			"	395
14	350	10:45	383			"	393
15	375	10:45	363			"	373
16	400	10:46	390			"	400
17	425	10:46	410			"	420
18	450	10:47	407			"	417
19	475	10:48	340			"	350
20	500	10:50	452			+13	465
21	525	10:55	423			"	436
22	550	10:55	441			"	452
23	575	10:56	452			"	465
24	600	10:56	457			"	468
25	625	10:57	446			+14	458
26	650	10:57	429			"	441
27	675	10:58	390			"	402
28	700	10:58	355			"	467
29	—	11:06	—	370			
30							

RIDGE

WP54

RIDGE

JOB NO. _____ LINE NO. 55 PAGE 9
AREA _____ DATE _____
INSTRUMENT _____

	STA.	TIME	READING	BASE CORR.	Δt	DRIFT CORR.	VALUE
1	—	12:27	—	51374			
2	2-5-600	12:39	445	—	+91	-18	453
3	575	12:40	461		"	"	469
4	550	12:40	450		"	"	458
5	525	12:41	471			"	479
6	500	12:41	433			"	441
7	475	12:41	401			"	409
8	450	12:42	365			"	373
9	425	12:42	375			"	383
10	400	12:43	378			"	386
11	375	12:43	368			"	376
12	350	12:44	373			"	381
13	325	12:44	372			"	380
14	300	12:45	375			"	383
15	275	12:45	401			-28	408
16	250	12:47	446			"	453
17	225	12:48	~~[illegible]~~	565		"	572
18	200	12:49	377			"	384
19	175	12:49	419			"	426
20	150	12:51	403			"	410
21	125	12:51	401			"	408
22	100	12:52	389			"	396
23	75	12:52	381			"	388
24	50	12:53	384			"	391
25	25	12:54	362			-38	368
26	2/3-5-0	12:54	359			"	365
27							
28							
29							
30							

W454

JOB NO. _____ LINE NO. 5N PAGE 10
AREA _____ DATE _____
INSTRUMENT _____

	STA.	TIME	READING	BASE CORR.	Δt	DRIFT CORR.	VALUE
WASH 1	3-5-25	12:55	362	—	+9	-38	368
2	50	12:55	358		"	"	364
3	75	12:56	320		"	"	326
4	100	12:57	395			"	401
5	125	12:57	387			"	393
6	150	12:58	388			"	394
7	175	12:58	407			"	413
8	200	12:59	417			"	423
9	225	12:59	398			"	404
10	250	1:00 PM	430			"	436
11	275	1:00	302			"	308
12	300	1:01	385			"	391
13	325	1:01	375			"	381
14 WASH	350	1:02	360			"	366
15	375	1:02	368			"	374
16	400	1:03	364			-48	369
17	425	1:04	366			"	371
18	450	1:04	378			"	383
19	475	1:05	392			"	397
20	500	1:05	397			"	402
21	525	1:06	391			"	396
22	550	1:06	397			"	402
23	575	1:07	413			"	418
24	600	1:07	376			"	381
25							
26							
27							
28							
29							
30							

JOB NO. _____ LINE NO. 6N PAGE 11
AREA _____ DATE _____
INSTRUMENT _____

	STA.	TIME	READING	BASE CORR.	Δt	DRIFT CORR.	VALUE
1	3-6-600	1:10	361		+98	-48	366
2	575	1:11	388		"	"	393
3	550	1:11	399		"	"	404
4	525	1:12	412			-58	416
5	500	1:12	413			"	417
6	475	1:13	392			"	396
7	450	1:13	405			"	409
8	425	1:14	399			"	403
9	400	1:14	399			"	403
10	375	1:15	383			"	387
11	350	1:15	380			"	384
12	325	1:16	389			"	393
13	300	1:16	390			"	394
14	275	1:17	402			"	406
15	250	1:17	393			"	397
16	225	1:18	408			"	412
17	200	1:18	372			"	377
18	175	1:18	434			"	438
19	150	1:19	417			"	421
20	125	1:19	491			"	495
21	100	1:20	394			"	498
22	75	1:21	401			-68	404
23	50	1:21	400			"	403
24	25	1:22	391			"	394
25	2/3-60	1:22	399			"	402
26							
27							
28							
29							
30							

RDGE

WASH

RDGE

WASH

Job No. _____ Line No. 65 Page 12
Area _____ Date _____
Instrument _____

	STA.	TIME	READING	BASE CORR.	Δt	DRIFT CORR.	VALUE
1	2-6-25	1:23	385		+9x	-6x	388
2	-50	1:24	383		"	"	386
3	-75	1:24	372		"	"	375
4	100	1:24	406			"	409
5	125	1:25	415			"	418
6	150	1:25	435			"	438
7	175	1:27	455			"	458
8	200	1:27	410			"	413
9	225	1:28	453			"	456
10	250	1:29	420			"	423
11	275	1:30	404			-7x	406
12	300	1:30	382			"	384
13	325	1:30	404			"	411
14	350	1:31	426			"	428
15	375	1:31	418			"	420
16	400	1:32	393			"	395
17	425	1:32	411			"	413
18	450	1:33	399			"	401
19	475	1:33	402			"	404
20	500	1:34	467			"	469
21	525	1:34	469			"	471
22	550	1:35	464			"	468
23	575	1:35	430			"	432
24	600	1:36	289			"	284
25		1:44	—	382			
26							
27							
28							
29							
30							

RIDGE

WASH

RIDGE

JOB NO. _____ LINE NO. 75 PAGE 13
AREA _____ DATE 5-2-84
INSTRUMENT _____

	STA.	TIME	READING	BASE CORR.	Δt	DRIFT CORR.	VALUE
1	—	AM	—			-168	
2		7:00		399			
3	6-7600	7:15	485				469
4	575	7:16	476				460
5	550	7:16	484				468
6	525	7:17	475				459
7	500	7:17	527				511
8	475	7:18	600				584
9	450	7:18	452				436
10	425	7:19	439				423
11	400	7:19	442				426
12	375	7:20	441				425
13	350	7:20	429				413
14	325	7:20	416				400
15	300	7:21	419				403
16	275	7:21	417				401
17	250	7:22	451				435
18	225	7:22	427				411
19	200	7:23	420				404
20	175	7:23	429				413
21	150	7:24	417				401
22	125	7:24	392				376
23	100	7:25	339				323
24	75	7:26	374				358
25	50	7:27	382				366
26	25	7:27	411				395
27	6/7-0	7:28	427				411
28							
29							
30							

RIDGE

RIDGE

WASH

JOB NO. _____ LINE NO. 7N PAGE 14
AREA _____ DATE _____
INSTRUMENT _____

	STA.	TIME	READING	BASE CORR.	Δt	DRIFT CORR.	VALUE
1	7-7-0						
2	-25	7:28	425		-16		409
3	50	7:29	408				392
4	75	7:30	433				417
5	100	7:31	427				411
6	125	7:31	449				433
7	150	7:32	422				406
8	175	7:32	390				374
9	200	7:33	413				397
10	225	7:33	406				390
11	250	7:34	387				371
12	275	7:34	396				380
13	300	7:35	399				383
14	325	7:35	388				372
15	350	7:36	426				410
16	375	7:36	438				422
17	400	7:36	430				414
18	425	7:37	432				416
19	450	7:37	421				405
20	475	7:38	416				400
21	500	7:38	417				401
22	525	7:39	442				426
23	550	7:39	425				409
24	575	7:40	383				367
25	600	7:40	391				375
26							
27							
28							
29							
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WASH
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JOB No. _____ LINE No. 8N PAGE 15
AREA _____ DATE 5-2-84
INSTRUMENT _____

	STA.	TIME	READING	BASE CORR.	Δt	DRIFT CORR.	VALUE
1	7-8-600	7:41	397		-16		381
2	575	7:42	387				371
3	550	7:42	415				399
4	525	7:43	414				398
5	500	7:43	442				426
6	475	7:44	443				427
7	450	7:44	456				440
8	425	7:45	438				422
9	400	7:45	447				431
10	375	7:46	442				426
11	350	7:47	427				411
12	325	7:47	428				412
13	300	7:48	405				389
14	275	7:49	406				390
15	250	7:49	403				387
16	225	7:50	397				381
17	200	7:51	418				402
18	175	7:52	435				419
19	150	7:52	459				443
20	125	7:53	470				454
21	100	7:53	460				444
22	75	7:53	450				434
23	50	7:54	452				436
24	25	7:54	452				436
25	6/7-8-0	7:55	410				394
26							
28							
29							
30							

RIDGE

WASH

RIDGE

WASH

JOB NO. _____ LINE NO. 8S PAGE 16
AREA _____ DATE 5-2-84
INSTRUMENT _____

	STA.	TIME	READING	BASE CORR.	Δt	DRIFT CORR.	VALUE
1	6/7-8-25	7:55	404		+68		388
2	7-8-50	7:56	425				409
3	75	7:57	409				393
4	100	7:57	388				372
5	125	7:58	414				398
6	150	7:58	453				437
7	175	7:59	420				404
8	200	7:59	431				415
9	225	8:00	430				414
10	250	8:00	445				429
11	275	8:01	462				446
12	300	8:01	430				414
13	325	8:02	450				434
14	350	8:02	456				440
15	375	8:03	449				433
16	400	8:03	424				408
17	425	8:04	438				422
18	450	8:04	454				438
19	475	8:05	479				463
20	500	8:05	484				468
21	525	8:06	501				485
22	550	8:08	486				470
23	575	8:08	534				518
24	600	8:09	495				479
25							
26							
27							
28							
29							
30							

WASH

RIDGE SLOPE

TOP

JOB No. _____ LINE No. 9S PAGE 17
AREA _____ DATE 3-2-84
INSTRUMENT _____

	STA.	TIME	READING	BASE CORR.	Δt	DRIFT CORR.	VALUE
1	6-9-600	8:23	496		-16		480
2	575	8:24	474				458
3	550	8:25	506				490
4	525	8:25	490				474
5	500	8:26	471				455
6	475	8:27	484				468
7	450	8:27	503				483
8	425	8:28	437				421
9	400	8:28	434				418
10	375	8:29	421				405
11	350	8:29	421				405
12	325	8:29	371				355
13	300	8:30	386				370
14	275	8:30	418				402
15	250	8:31	420				404
16	225	8:31	404				388
17	200	8:32	432				416
18	175	8:32	401				385
19	150	8:33	381				365
20	125	8:33	388				372
21	100	8:34	403				387
22	75	8:34	396				380
23	50	8:35	408				392
24	25	8:35	410				394
25	W-9-0	8:36	402				386
26	BASE	8:36	—	347			
27							
28							
29							
30							

RIDGE

WASH

JOB No. _____ LINE No. 9N PAGE 18
AREA _____ DATE 5-2-87
INSTRUMENT _____

	STA.	TIME	READING	BASE CORR.	Δt	DRIFT CORR.	VALUE
1	—	8:37	—	397	-14γ		
2	7-9-25	8:40	362				348
3	50	8:40	350				336
4	75	8:43	439				425
5	100	8:44	401				387
6	125	8:45	432				418
7	150	8:45	442				428
8	175	8:46	447			1γ	434
9	200	8:46	372			"	359
10	225	8:47	377			"	364
11	250	8:47	379			"	366
12	275	8:48	402			"	389
13	300	8:48	408			"	395
14	325	8:49	427			"	414
15	350	8:49	436			"	423
16	375	8:49	429			"	416
17	400	8:50	436			"	423
18	425	8:50	439			"	426
19	450	8:51	404			"	391
20	475	8:51	448			"	435
21	500	8:52	378			"	365
22	525	8:52	386			"	373
23	550	8:53	368			"	355
24	575	8:53	367			"	354
25	600	8:54	371			"	358
26	EDGE	OF WASH					
27							
28							
29							
30							

EDGE

EDGE OF WASH

MIDGE

JOB No. _____ LINE No. 10 N PAGE 19
AREA _____ DATE 3-2-84
INSTRUMENT _____

	STA.	TIME	READING	BASE CORR.	Δt	DRIFT CORR.	VALUE
1	7-10-600	8:55	405	—	-14	28	393
2	575	8:56	380			"	368
3	550	8:56	380			"	368
4	525	8:57	389			"	377
5	500	8:57	399			"	387
6	475	8:58	407			"	395
7	450	8:58	429			"	417
8	425	8:59	441			"	429
9	400	8:59	433			"	421
10	375	9:00	445			"	433
11	350	9:00	478			"	466
12	325	9:01	410			"	398
13	300	9:01	427			"	415
14	275	9:02	420			"	408
15	250	9:02	390			"	378
16	225	9:03	352			"	340
17	200	9:03	357			"	345
18	175	9:04	390			38	379
19	150	9:04	418			"	407
20	125	9:05	409			"	398
21	100	9:06	447			"	436
22	75	9:06	461			"	450
23	50	9:07	478			"	467
24	25	9:08	450			"	439
25	6/7-10-0	9:08	387			"	376
26							
27							
28							
29							
30							

Job No. _____ Line No. 105 Page 20
Area _____ Date 3-2-84
Instrument _____

	STA.	TIME	READING	BASE CORR.	~~Δt~~	DRIFT CORR.	VALUE
1	6-10-25	9:09	402		-14	3	391
2	50	9:10	429			"	418
3	75	9:11	413			"	402
4	100	9:11	402			"	391
5	125	9:12	415			"	404
6	150	9:12	400			"	389
7	175	9:13	407			4	397
8	200	9:13	397			"	387
9	225	9:13	389			"	379
10	250	9:14	399			"	389
11	275	9:14	398			"	388
12	300	9:15	404			"	394
13	325	9:15	410			"	400
14	350	9:16	463			"	453
15	375	9:17	332			"	322
16	400	9:19	438			"	428
17	425	9:20	424			"	414
18	450	9:20	421			"	411
19	475	9:21	414			"	404
20	500	9:23	540			5	531
21	525	9:24	389			"	380
22	550	9:24	442			"	433
23	575	9:26	516			"	507
24	600	9:26	462			"	453
25							
26							
27							
28							
29							
30							

WASH

RIDGE

JOB No. _____ LINE No. 115 PAGE 21
AREA _____ DATE 5-2-84
INSTRUMENT _____

	STA.	TIME	READING	BASE CORR.	~~AT~~	DRIFT CORR.	VALUE
1	6-11-600	9:41	480		-148	78	473
2	575	9:42	461			"	454
3	550	9:43	371			"	364
4	525	9:43	479			"	472
5	500	9:44	429			"	422
6	475	9:45	436			"	429
7	450	9:45	426			"	419
8	425	9:46	401			"	394
9	400	9:46	391			"	384
10	375	9:46	380			"	373
11	350	9:47	381			"	374
12	325	9:47	382			"	375
13	300	9:47	374			"	367
14	275	9:48	378			"	371
15	250	9:48	369			"	362
16	225	9:49	385			88	379
17	200	9:49	368			"	362
18	175	9:49	368			"	362
19	150	9:50	374			"	368
20	125	9:50	384			"	378
21	100	9:50	422			"	416
22	75	9:51	431			"	425
23	50	9:51	484			"	478
24	25	9:53	417			"	411
25	6/7-10-0	9:55	420			"	414
26							
27							
28							
29							
30							

RIDGE

WASH

JOB NO. _____ LINE NO. 11 N PAGE 22
AREA _____ DATE 5-28-84
INSTRUMENT _____

	STA.	TIME	READING	BASE CORR.	Δt	DRIFT CORR.	VALUE
RIDGE 1	7-11-25	9:56	378		148	88	372
2	50	9:56	416			"	410
3	75	9:57	369			"	363
4	100	9:57	444			"	438
5	125	9:58	389			98	384
6	150	9:59	363			"	358
7	175	10:00	355			"	350
8	200	10:00	351			"	346
9	225	10:01	366			"	361
WASH 10	250	10:01	383			"	378
11	275	10:02	411			"	406
12	300	10:02	397			"	392
13	325	10:03	388			"	383
14	350	10:03	389			"	384
15	375	10:04	414			"	409
RIDGE 16	400	10:04	376			"	371
17	425	10:05	404			"	399
18	450	10:06	362			"	357
19	475	10:06	361			"	356
20	500	10:07	346			108	342
21	525	10:07	353			"	349
22	550	10:08	356			"	352
23	575	10:08	376			"	372
WASH 24	600	10:08	375			"	371
25							
26							
27							
28							
29							
30							

JOB No. _____ LINE No. 12N PAGE 23
AREA _____ DATE 5-2-84
INSTRUMENT _____

	STA.	TIME	READING	BASE CORR.	Δt	DRIFT CORR.	VALUE
1	7-12600	10:10	388		14x	10x	384
2	575	10:10	361			"	357
3	550	10:11	373			"	369
4	525	10:11	367			"	363
5	500	10:13	378			"	374
6	475	10:14	380			"	376
7	450	10:14	377			"	373
8	425	10:15	391			"	387
9	400	10:15	420			"	416
10	375	10:16	361			11x	358
11	350	10:16	399			"	396
12	325	10:17	420			"	417
13	300	10:17	432			"	429
14	275	10:18	415			"	412
15	250	10:18	414			"	411
16	225	10:19	359			"	356
17	200	10:19	374			"	371
18	175	10:20	373			"	370
19	150	10:20	377			"	374
20	125	10:21	396			"	393
21	100	10:22	404			"	401
22	75	10:22	424			"	421
23	50	10:23	420			"	417
24	25	10:23	431			"	428
25	7-12-0	10:24	420			"	417
26							
28							
29							
30							

WASH

RIDGE

WASH DOWN

RIDGE

JOB NO. _____ LINE NO. 125 PAGE 24
AREA _____ DATE 5-2-84
INSTRUMENT _____

	STA.	TIME	READING	BASE CORR.	Δt	DRIFT CORR.	VALUE
1	6-12-25	10:24	470		148	118	467
2	50	10:25	428			128	426
3	75	10:26	411			"	409
4	100	10:26	406			"	404
5	125	10:27	413			"	411
6	150	10:27	409			"	407
7	175	10:28	400			"	398
8	200	10:28	395			"	393
9	225	10:29	399			"	397
10	250	10:29	387			"	385
11	275	10:30	395			"	393
12	300	10:31	382			"	380
13	325	10:31	379			"	377
14	350	10:32	377			"	375
15	375	10:33	378			"	376
16	400	10:33	401			"	399
17	425	10:34	421			138	420
18	450	10:34	421			"	420
19	475	10:35	407			"	406
20	500	10:35	430			"	429
21	525	10:37	419			138	418
22	550	10:37	461			"	460
23	575	10:38	436			"	435
24	600	10:38	598			"	597
25	625	10:39	514			"	513
26	—	10:59	—	381			
27							
28							
29							
30							

WASH

BRIDGE

JOB NO. _____ LINE NO. _____ PAGE 1
AREA _____ DATE 5-3-84
INSTRUMENT _____

	STA.	TIME	READING	BASE CORR.	Δt	DRIFT CORR.	VALUE
1	2-1-150	7:16	—	452			
2	2-1-175	7:17	462	~~[illegible]~~			
3	200	7:18	444				
4	225	7:19	445				
5	250	7:19	443				
6	275	7:20	435				
7	300	7:20	441				
8							
9	2-2-325	7:22	421				
10	2-2-300	7:22	435				
11	2-2-275	7:23	412				
12	2-2-250	7:23	447				
13	2-2-225	7:26	448				
14	2-2-200	7:26	439				
15							
16	BASE STA						
17		7:38	—	407			
18							
19	B-2-225	7:45	452		-24	28	430
20	-250	7:46	453		"	"	431
21	-275	7:47	451	416 (381)	"	38	430
22	300	7:47	398	4	"	"	357
23	325	7:50	500	417 502	"	41	480
24							
25							
26							
27							
28							
29							
30							

JOB NO. _____ LINE NO. _____ PAGE 2
AREA _____ DATE 5-3-84
INSTRUMENT _____

	STA.	TIME	READING	BASE CORR.	Δt	DRIFT CORR.	VALUE
1	2-4-350	7:54	420		-24	5γ	401
2	-325	7:54	416		"	"	397
3	300	7:55	420		"	"	401
4	275	7:56	434		"	6γ	416
5	250	7:58	455		"	"	437
6							
7			←	209			192
8	2-5-225	8:00	642	← 541 (524)	-24	7γ	625
9	250	8:05	484	← 502 (485)	"	9γ	474
10	275	8:06	444		"	"	429
11	300	8:07	419		"	"	404
12	325	8:08	422		"	10γ	408
13	350	8:08	418		"	"	404
14							
15							
16							
17	2-1-200	8:17	439		-24	13γ	428
18	212	8:18	439			"	428
19	225	8:19	437			"	426
20	237	8:19	431			"	420
21	250	8:20	431			14γ	421
22	262	8:20	431			"	421
23	275	8:21	427			"	417
24	300	8:	434			"	424
25							
26							
27							
28							
29							
30							

JOB NO. _____ LINE NO. _____ PAGE 3
AREA _____ DATE 5-3-84
INSTRUMENT _____

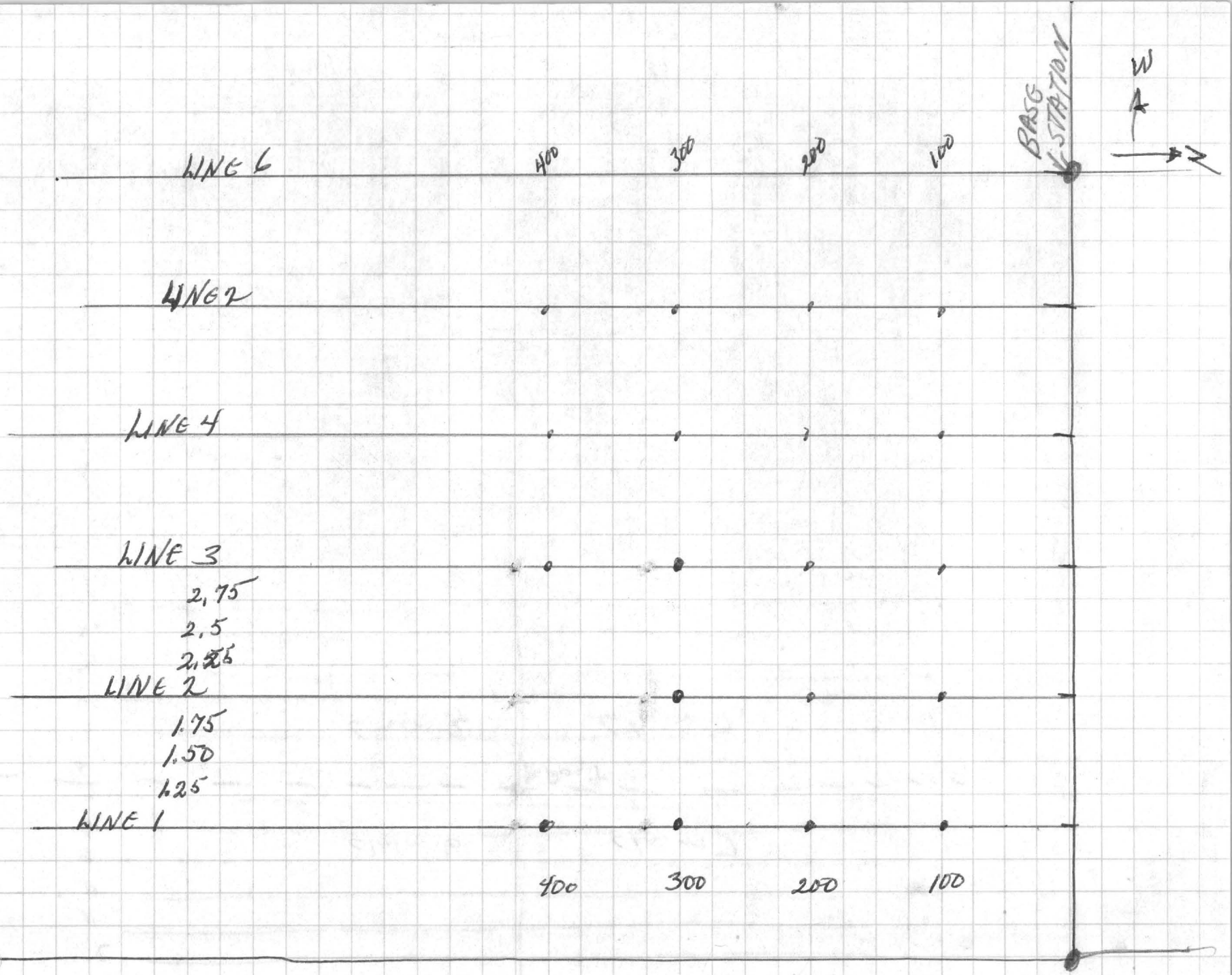
	STA.	TIME	READING	BASE CORR.	Δt	DRIFT CORR.	VALUE
1	2-125-300	8:23	420		-24	15γ	411
2	125-275	8:24	406		"	"	397
3	-250	8:24	425		"	"	416
4	-225	8:25	423		"	"	414
5	200	8:25	428		"	"	419
6							
7	2-150-200	8:26	440		-24	16γ	439
8	-225	8:26	436			"	428
9	-250	8:28	435			"	427
10	-262	8:29	411	IN HOLE	17γ		APPROX 403
11	-262	8:29	425	ON BANK			ADJACENT 417
12	-275	8:30	420			"	412
13	-300	8:31	433			"	425
14							
15							
16	2-175-300	8:32	447		-24	18γ	441
17	-275	8:32	401		"	"	395
18	-262	8:33	390	IN HOLE (TRENCH)		5 FT DEEP	384
19	-250	8:33	424		"	"	418
20	225	8:34	426		"	"	422
21	200	8:35	456		"	19γ	451
22							
23							
24	2-2-200	8:36	432		-24	"	427
25	2-2-225	8:36	434		"	"	429
26	2-2-250	8:37	434		"	"	434
27	2-2-275	8:37	399	IN HOLE	"		394
28	—	8:37	406	ON BANK	"		ADJACENT 401
29	250	8:39	431		"	20γ	427
30							

JOB No. _____ LINE No. _____ PAGE 4
AREA _____ DATE 5-3-84
INSTRUMENT _____

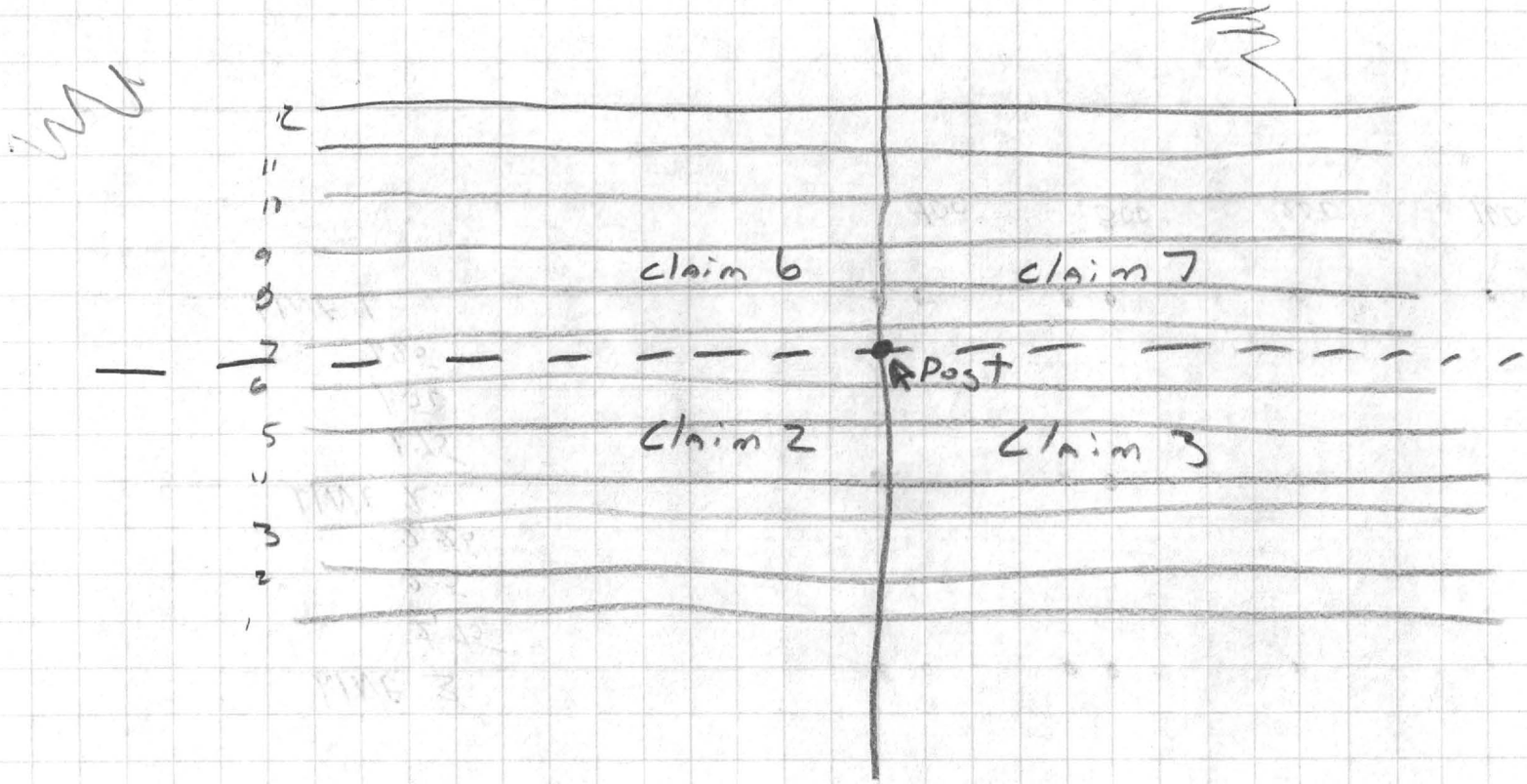
	STA.	TIME	READING	BASE CORR.	Δt	DRIFT CORR.	VALUE
1	2-225-250	8:40	405		-24	20γ	401
2	-2-225	8:40	414	ON BANK	"		410
3	—	—	389	IN TRENCH			385
4	200	8:41	436		"	21γ	433
5	175	8:41	433		"	"	430
6	150	8:42	435		"	"	432
7						"	
8							
9	2-215-150	8:43	456		-24	"	453
10	175	8:44	445		"	22γ	443
11	200	8:45	443		"	"	441
12	225	8:45	432		"	"	430
13	250	8:46	438		"	"	436
14	275	8:46	377		"	"	375
15							
16			395 ?				395
17	2-2-275-275	8:47	305		-24	24γ	305
18	250	8:48	405		"	"	405
19	225	8:49	424	IN TRENCH			424
20	200	8:50	431		"	26γ	433
21	175	8:51	429				431
22	150	8:51	444				446
23							
24							
25							
26	—	9:08		378 BASE STA.			
27							
28							
29							
30							

JOB NO. _____ LINE NO. _____ PAGE 5
AREA _____ DATE 5-3-84
INSTRUMENT _____

	STA.	TIME	READING	BASE CORR.	Δt	DRIFT CORR.	VALUE
1				16			
2	CLAIM 6 — W ASH ABOVE						
3		BASE STATION					
4		14	15 13				
5	1 2 3		4 5 6 7 8				→ W
6			12				
7	← APPROX		11				V
8	100 FT		10 9				N
9							
10	1	9:32	.386				
11	2	9:33	393				
12	3	9:34	381				
13	4	9:34	407				
14	5	9:35	403				
15	6	9:35	397				
16	7	9:36	394				
17	8	9:37	397				
18	9	9:39	418	OUT OF CUT			N END
19	10	9:39	407				
20	11	9:40	412				
21	12	9:41	393				
22	13	9:41	391				
23	14	9:42	372				
24	15	9:42	346				
25	16	9:43	364				
26							
27							
28							
29							
30							

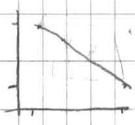

BASE STATION
W
N
LINE 6
400
300
200
100
LINE 5
LINE 4
LINE 3
2.75
2.5
2.25
LINE 2
1.75
1.50
1.25
LINE 1
400
300
200
100

CLAIM 2


claim 6
claim 7
Post
Claim 2
Claim 3

Line 1 &	51,383	7:39
Line 2	,385	9:19
	− 2γ	1:40

Line 3	51,385	9:19
Line 4	,370	11:06
	+ 15γ	1:47
		107 min



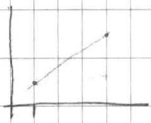
Add the corr.

− 0.14 γ/min

8.41 γ/hr

~ 1γ per 7 min

Line 5	51,374	12:27
Line 6	,382	1:44
	− 8γ	1:17
		77 min



sub. the correction

+ 0.1γ/min

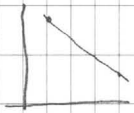
~ +1γ per 9 min

$$\frac{382-374}{1:44-12:27} = \frac{8}{1.17}$$

Line 7	51,399	7:00
Line 8	397	8:36
1/2 Line 9	28	1:36

1/2 Line 9	51,397	8:37
Line 10	381	10:59
Line 11	16	2:23
Line 12	0.11 8/min	14 2/min

~ 1 8 per. 9 min



381 - 397	-16
10:59 - 8:36	143

8.00

22
60
8

60
30
0
9

5-3-84

Lines 1	150 - 300	
2	325 - 200	BASE
3	225 - 325	
4	350 - 250	
5	225 - 350	
1	200 - 300	detailed
1.25	300 - 200	
1.50	200 - 300	
1.75	300 - 200	
2.0	200 - 250	
2.25	250 - 150	
2.5	150 - 275	
2.75	275 - 150	

Add

7:38 407

9:08 378

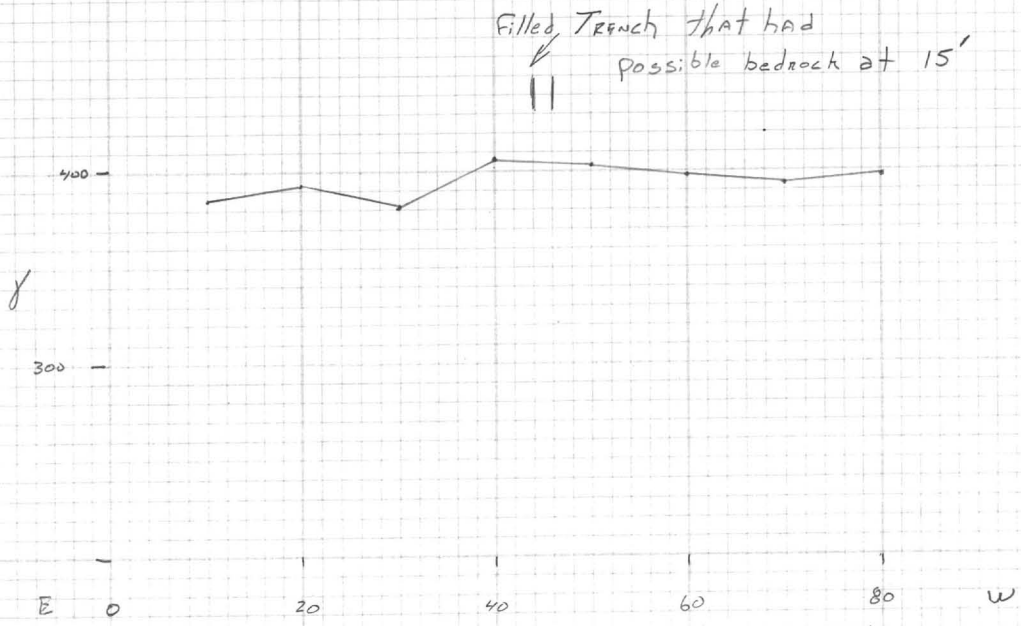
29

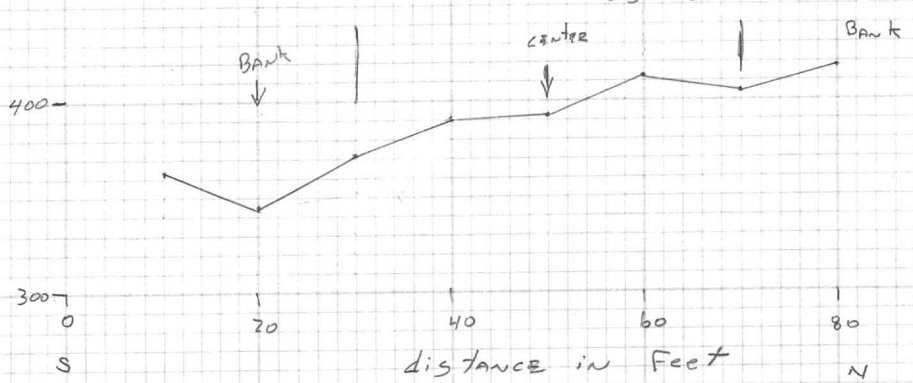
90 min

0.322 γ/min

1γ = 3 min

Traverse down wash





Accross wash along the Filled trench

Total Field Magnetic Profile
Looking: West
for
Garritson Mining Enterprises
Scottsdale, Arizona

Horizontal Scale: 1" = 100 feet
Vertical Scale: 1"=100 gammas (γ)
GEDEX Job # 1682
May 1994

Total Field Magnetic Profile
Looking: West
for
Garritson Mining Enterprises
Scottsdale, Arizona

Horizontal Scale: 1" = 100 feet
Vertical Scale: 1"=100 gammas (γ)
GEDEX Job # 1682
May 1994

Total Field Magnetic Profile
Looking: West
for
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Scottsdale, Arizona

Horizontal Scale: 1" = 100 feet
Vertical Scale: 1"=100 gammas (γ)
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May 1994

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May 1994

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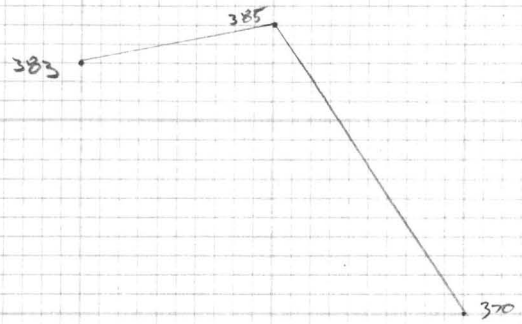
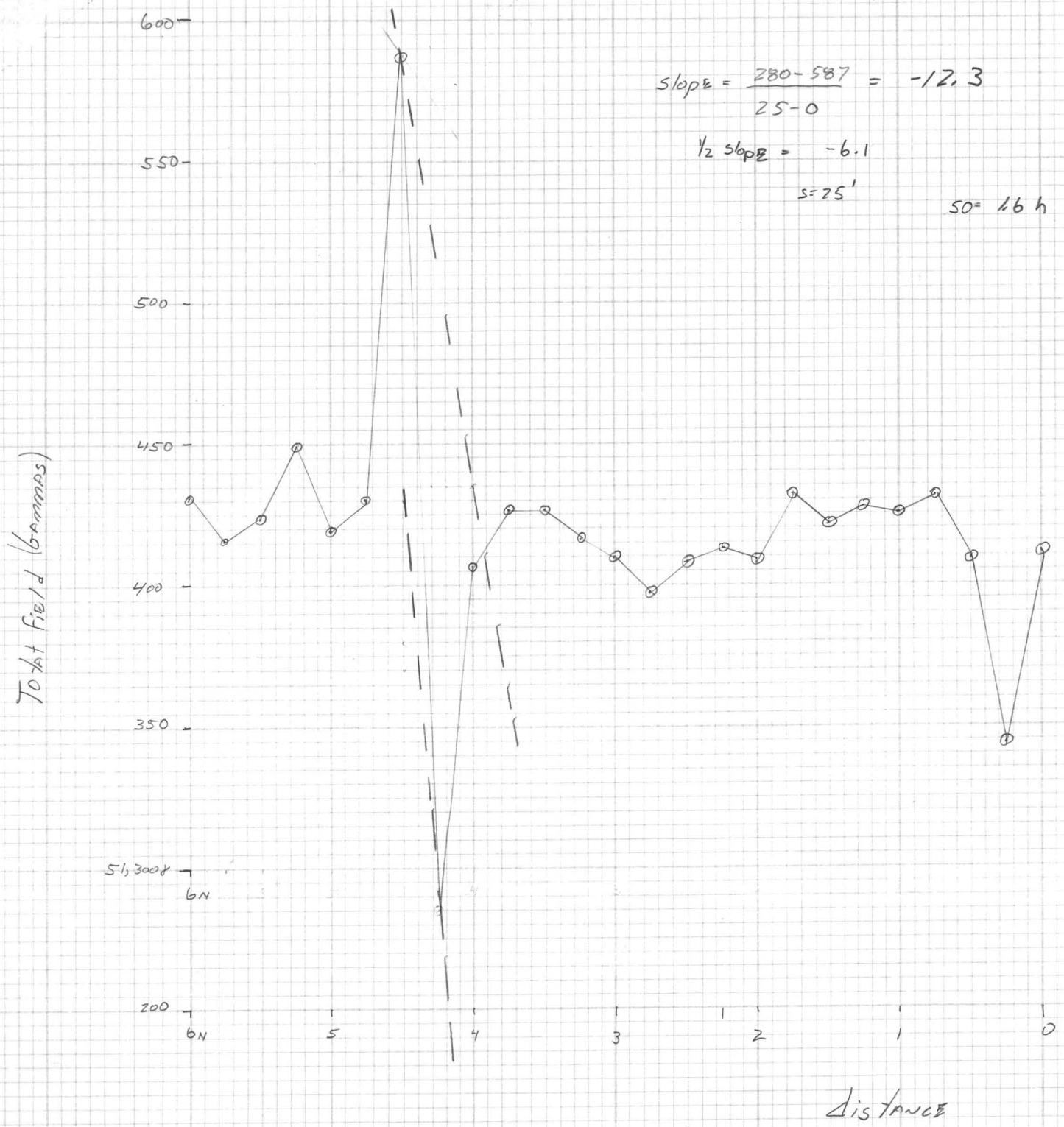
Garritson Mining Enterprises
Scottsdale, Arizona

Horizontal Scale: 1" = 100 feet
Vertical Scale: 1"=100 gammas (γ)
GEDEX Job # 1682
May 1994



368 − 383 → 15 γ



$$\text{slope} = \frac{280-587}{25-0} = -12.3$$

$\frac{1}{2}$ slope = -6.1

$s = 25'$

$-6.1 = \frac{x}{25}$ $\quad x = -153.5\gamma$ change in 25'

$50 = 1.6\,h = 31.3'$

HEINRICHS GEOEXPLORATION COMPANY

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

February 6, 1984

Mr. W. A. Garritson, Partner
Garritson Mining Enterprises
6529 Shea Blvd.
Scottsdale, AZ 85254

Re: Magnetometer Survey
GEOEX Proposal #1682
Lone Jack Placer Mine Area
Sec. 16, T.29 N., R. 17 W
Mohave County, AZ

Dear Mr. Garritson:

This will confirm the meeting in our office in Tucson on 16 January 1984 with you and your brother.

We discussed the estimated costs and feasibility of running an initial test magnetometer survey over a portion of your claimed area to determine if the magnetic method can be useful in helping to delineate certain zones of magnetite concentration which seem to be commonly associated with the placer gold concentrations of the type you have produced from in the past.

You left with us a sketch map of twelve proposed north-south traverses 100' apart covering most of Claim 2 and most of Claim 6. If the lines are 1320' long there would be 52 or 53 stations, 25' apart. Your sketch shows 49 stations on the one line. For present purposes we can say 50 stations per line which would give a nominal total of 600 stations, 25' apart. Actually, as discussed, we technically may need to have some stations closer than 25' apart and, if so, there could be considerably more than 600 stations total, or, alternatively, we can reduce the total areal coverage, i.e. length of lines.

In any event, we estimate a maximum of about 200 stations per day average production, assuming that the 25' stations are laid out in advance, and diurnal effects are not too much of a problem. If requirements for greater detail turn out to be extensive then the areal coverage would have to be less for the same total time expended. However, that should also mean that we were perhaps acquiring more meaningful and hopefully, more useful data and results over all.

Our charges are based on the following daily rates plus expenses over a week running from Sunday through Saturday. This includes field work and commuting as well as all necessary equipment except vehicles.

	40 hours per week Regular time Per hour	Over 40 hours per week (Overtime) Per hour
One Professional:	$32.50	$39.50
Two men (1 pro. & Helper)	$45.00	$59.00

Positioning travel time i.e.: Tucson to Kingman or Dolan Springs, etc. and return, or standby and weather are half the above up to a maximum of 10 hours per day. Perdiem is $40.00 per man day or actual living expenses which ever is greater.

Vehicle charges are $35.00 per day plus $0.35 per mile.

On this basis, assuming two 8 hour travel days and three 10 hour field days, the total field work estimate comes to about $2,736.50 for data acquisition only. During the field work there will most likely need to be some additional time spent in compilation and plotting, etc., perhaps up to six man hours worth charged at $25.00 per man hour or $150.00. This would include diurnal corrections and preliminary field profile plots, etc., but not contouring of the data in plan. Contouring may or may not help in interpretation or prove to be a necessary or desirable mode of presentation. This will depend on the nature of the observed magnetic response and final coverage obtained. If needed and/or desired a final contour presentation can most efficiently be done in the Tucson office and would take about two days and cost about $400.00 plus $25.00 of drafting materials. A complete written final report including all presentation and final interpretation of the data would be about $425.00 more. All together this gives a grand total estimate of $3,736.50. I realize that figure is about $1,200.00 over my original estimate of $2500.00 and for that I apologize. However, this covers everything I can think of and may include some items you may or may not need or want. Even so it is still best that they be mentioned now rather than later. If the budget needs to be pared down I suggest considering less total coverage at least initially, or, perhaps you could furnish the helper who in this case will be mainly a note keeper, etc. anyway but still desirable to have available from a production point of view.

Generally we may need as much as 10 days to three weeks advance notice for scheduling purposes but, at present we are relatively uncommitted for latter March and early April. Ideally, we would plan to arrive on a Monday evening, spend Tues, Wed. and Thurs. in the field and return to Tucson on Friday. I may have a late April committment in Prescott which could be coordinated.

I would plan to start with our Geometrics 826 but would have our 836 along for back up.

For this size job, we request one half of the estimated total job in advance. A statement in the amount of $1,868.25 is enclosed for this purpose. An interim statement showing charges in detail and allocated against the advance may follow completion of field work and/or instead a final detailed

statement accompanying a final report if such becomes part of our assignment.

If the foregoing meets with your approval, you may so signify for our mutual convenience by executing the extra copy of this letter as provided below and returning same to us in the envelope enclosed.

Copies of this letter, in duplicate, are also being sent to Mr. F. K. Garritson as requested.

We welcome any questions you may have.

Faithfully,
Heinrichs GEOEXploration Co. Inc

Walter E. Heinrichs, Jr., President

WEH/jh

Accepted for Garritson Mining Enterprises

Date:_____

Signature:_____
by W. A. Garritson, Partner

F. K. Garritson (2 cc)

Encl: Extra cc.
Statement

HEINRICHS GEOEXPLORATION COMPANY

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

STATEMENT

February 6, 1984

Mr. W. A. Garritson, Partner
Garritson Mining Enterprises
6529 Shea Blvd
Scottsdale, AZ 85254

Re: Magnetometer Survey
Mohave County, AZ

Professional Fees & Services

Charges: Mobilization - set up expenses-
Positioning & demobilization, etc.----------$1868.25

Advance on account to be allocated against future itemized billings.

GEOEX #1682

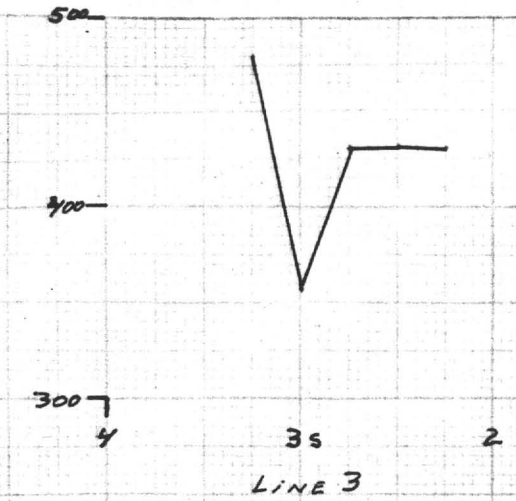
Total Field Magnetic Profile

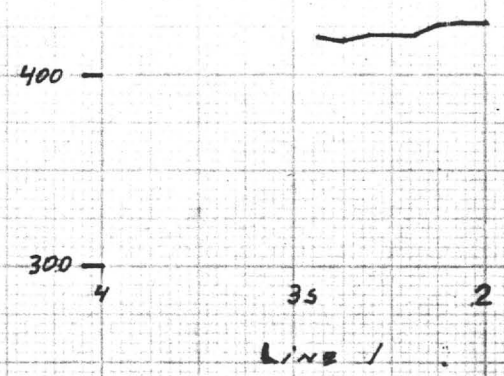
Looking West

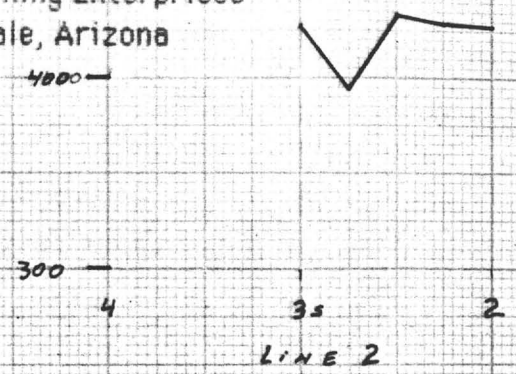
for

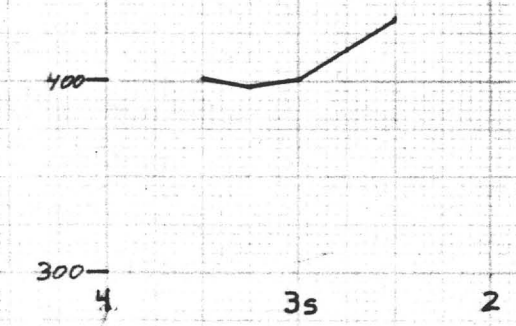
Garritson Mining Enterprises

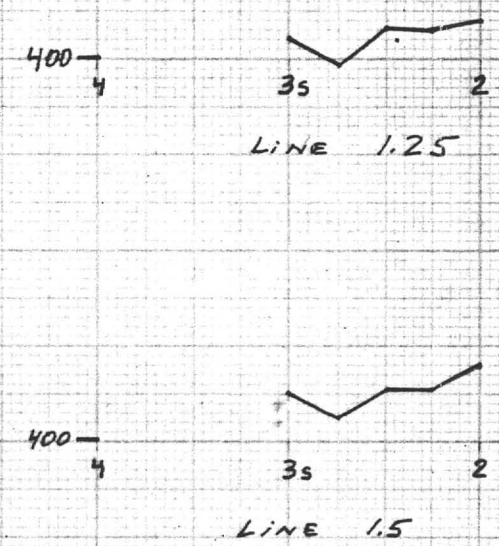
Scottsdale, Arizona

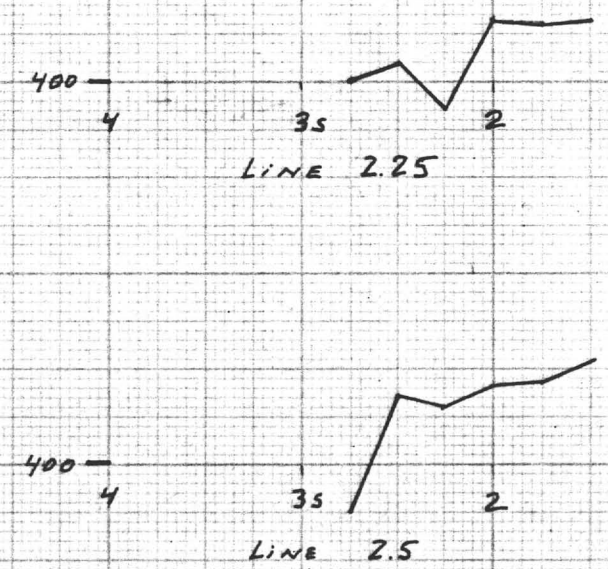


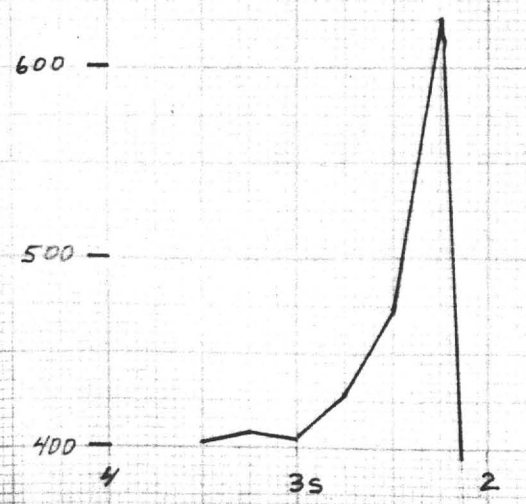


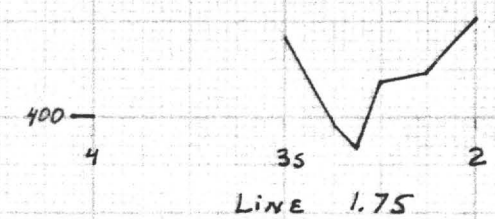


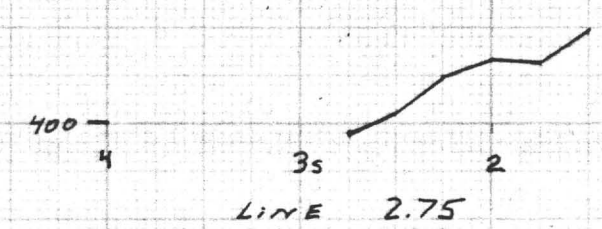












Horizontal Scale: 1" = 100 feet

Vertical Scale: 1" = 100 gammas (∂)

GEOEX Job # 1682

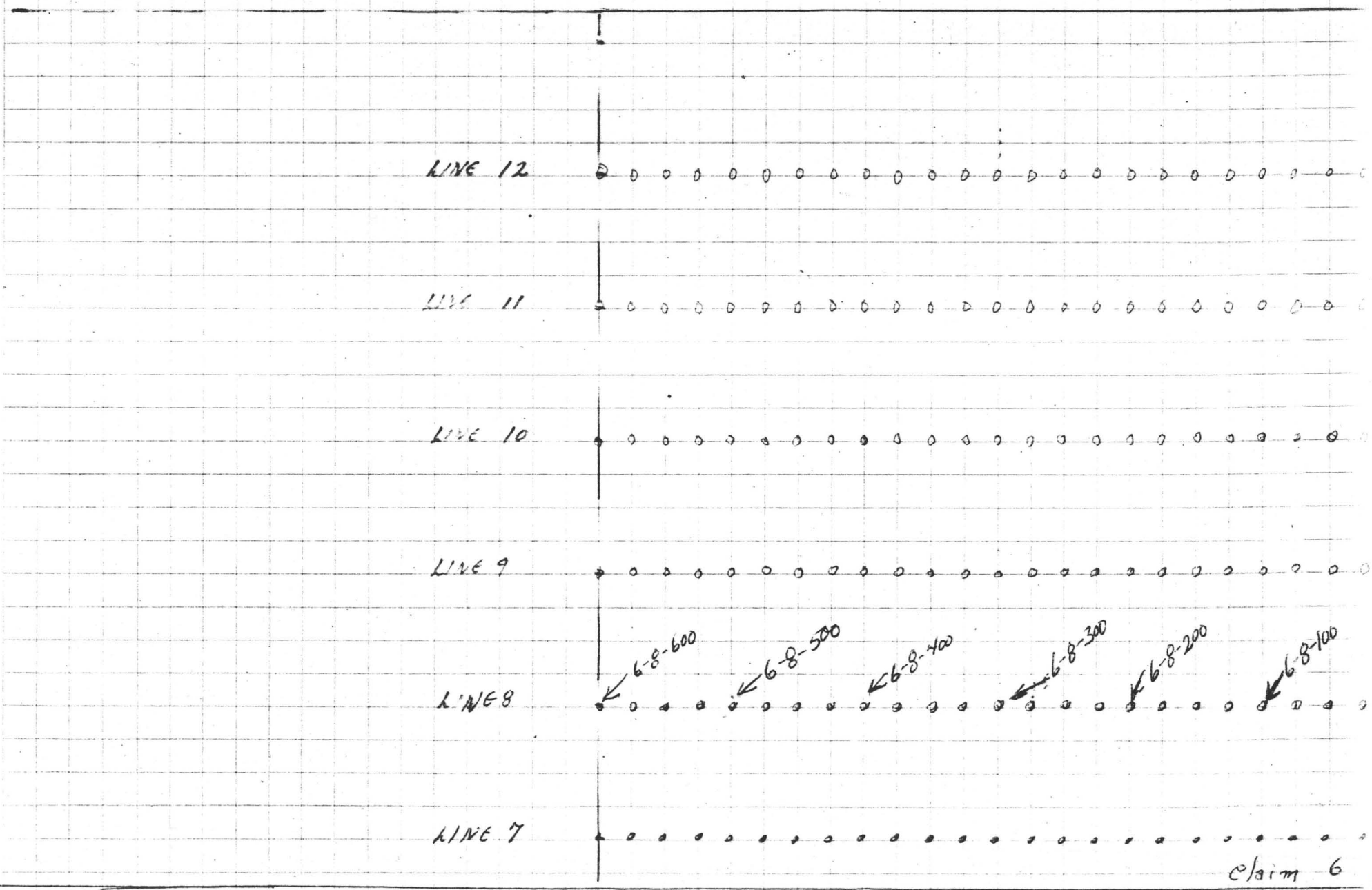
May 1984

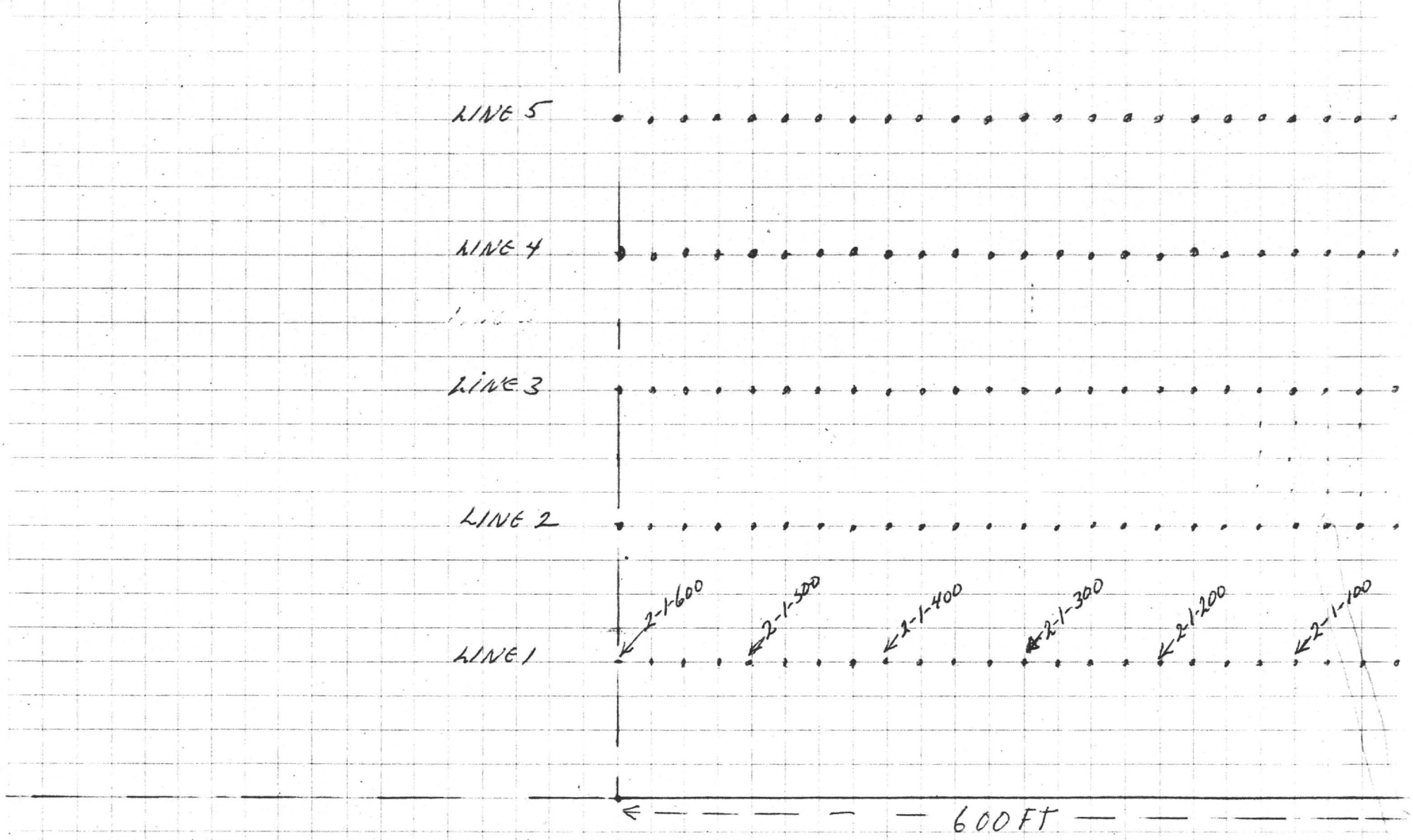
HEINRICHS

GEOEXploration Company

Tucson, AZ

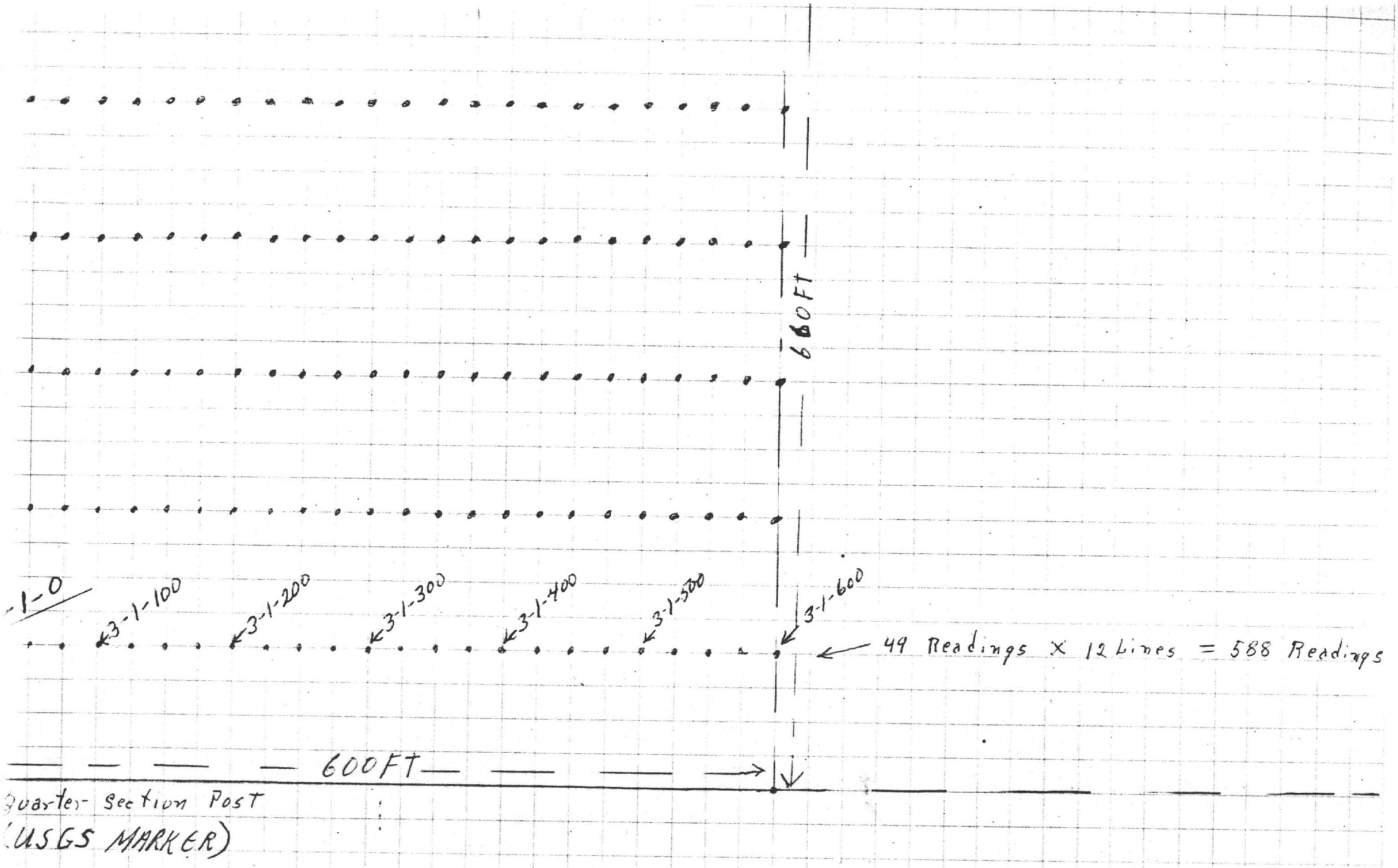
Portion of Claims 2-
East half of Section 16-1

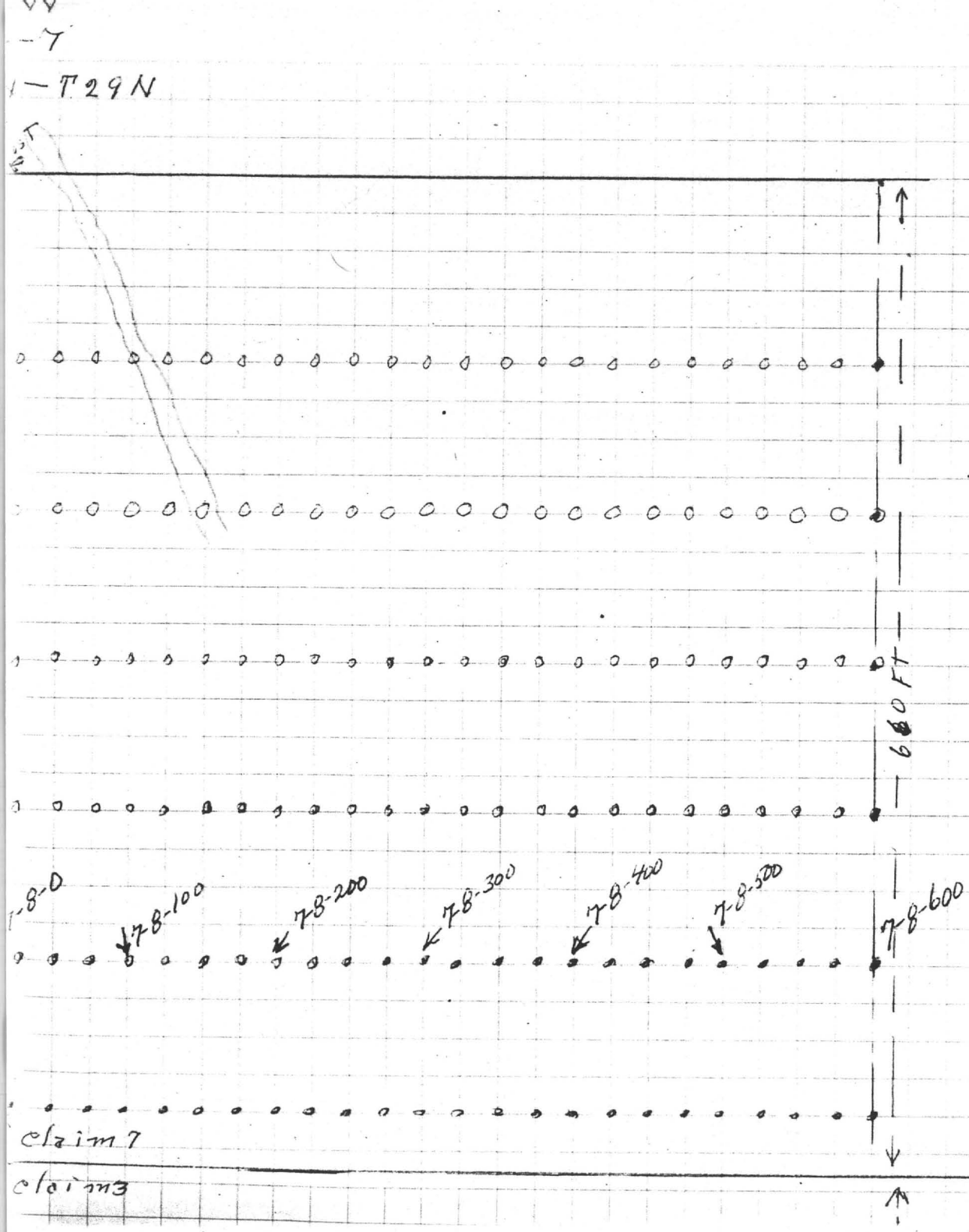




AMPAD 22-070 QUADRILLE 4 x 4

1 inch = 100 ft


660FT
-1-0
3-1-100
3-1-200
3-1-300
3-1-400
3-1-500
3-1-600
49 Readings X 12 Lines = 588 Readings
600FT
Quarter Section Post
(USGS MARKER)



NUMBER SYSTEM

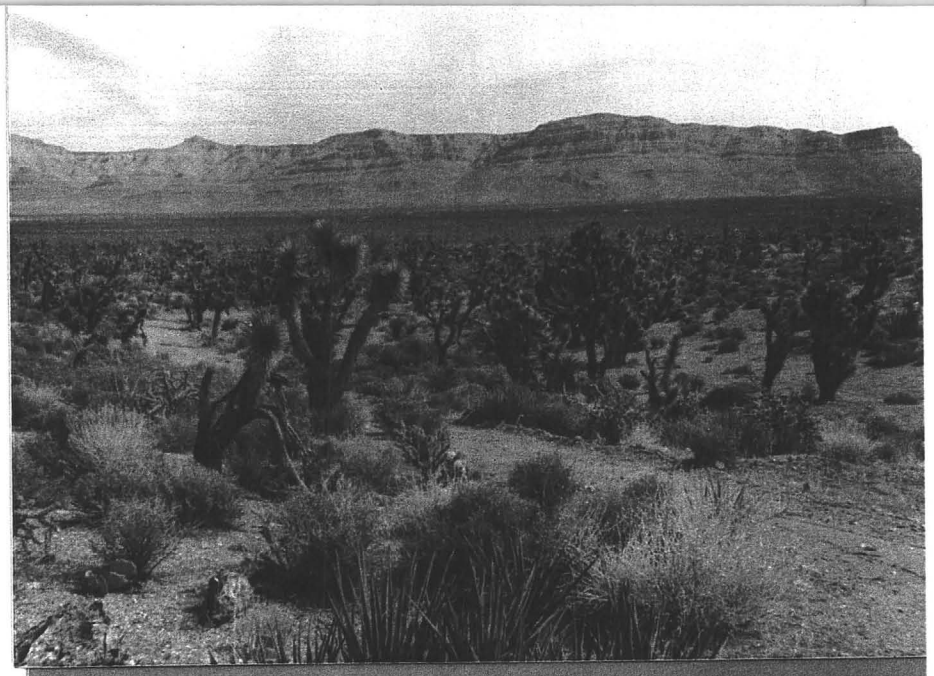
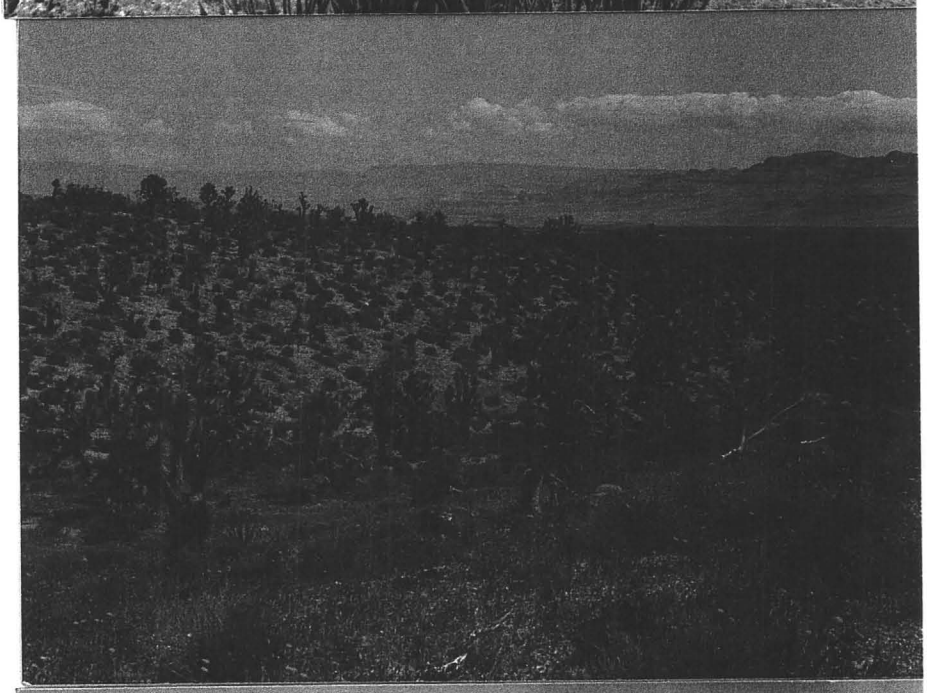
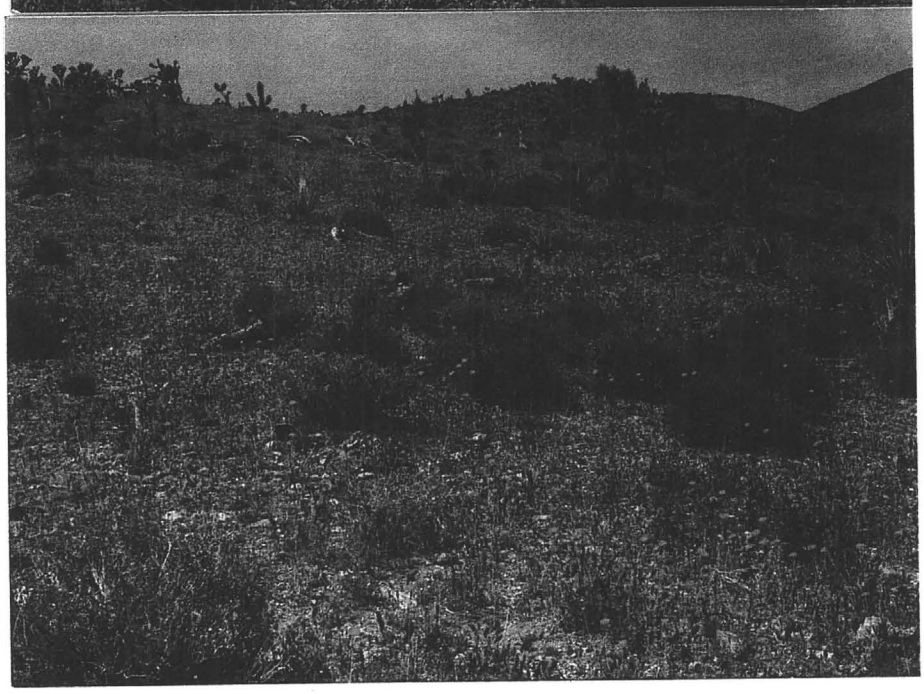
3 - 1 - 25

CLAIM No.

LINE No.

DISTANCE (FEET) FROM CENTER LINE

2/3-1-0 WOULD INDICATE CLAIM CENTER LINE

STAKES SET 25 FT. SPACING ALONG EACH LINE.

100 FT. SEPARATION BETWEEN EACH LINE.