✓ Wood. 10/27/59

Hole #2 Best Afmag spot. Friday 10 AM

Tucson.

Re: Hal Warnock 10/3/59

17th Douglas.

18th 23 Statement for Land office.

to Phys Walt & Hal.

Small map of Mag data.

play down AFMAG.

Geochem. Cost to date)

2 1/2 Sec.

100

50) 5000

500

250/day 1000'

500 30000/day = 1/2 mile

GOLD FIBRE

10/3/59

John Wood.

October 34.

Affidavit & Geochem. Oct Prod.

37 S – 3 E 1040 PPM.

3 adjacent 40%

---

3 copies of S.P. profile

Drill hole, E.M. on SE. Missouri

$25.00/acre

Fed Claims 9.03
8.08

T.S. today at 461' in drill hole #1

J. Wood. 11/2/59

S.E. Missouri

Mag.

I.P. & P.P.

AF MAG.

2003000'

MR. Taylor Sr. 65

best

Check what being done. etc.

Am. Zinc

" Metals

S.E. Rollo a ways

Mining World.

Week from today for 2 weeks.

CW & G.

P-1-A & Calif

10/22/59

J. Wood:

10 S all across Sec 9 Check 300' to 400' 1 sta off

also other 3 lines as feasible.

2 days.

Fly Douglas Mon Nite El Paso

9:30 AM Tues P.U.

Thursday. meet at Tucson.

Meet Ward. at L.A.

Vol. Plug.

Ave site

broken Magnetite.

6' last Fri

Gleason QM w/ TSI

Gallagher. Check

Receipt. copy of Invoice.

Tellurium.

1096.09
125.00
971.09

1096.09

996.09
100.00
1096.09

2 men
160 + Tax
18
1.78

160
160
1.76

2 Mi E-S-E of Liq Call Cowan.

118'

Sec 21

50, 60,000 gallons. 4" Pipe

Border Motel.

7:00

10

10-1-59

AFMAG.	2800' - 4 HRS =	8 MH.
GEO CHEM	1 MI - 4 HRS	8 MH.

10-2-59

AFMAG.	8800' 7 HRS	14 MH.
GEO CHEM	1 HR. HELPING.	2 MH.

A O C

P-1-A October 1959

Production

	Date	Production	
Geochem	1st	2½ miles	(Fair, Clark, Valdez I.) 8hrs, 4hrs, 4hrs
	2nd	4 miles	(Fair, Marlatt) Valdez, Clark 4hrs ea.
	3rd	6 miles	(Fair, Clark, Marlatt)

AFMAG	1st	28+00' – 8 hours	(Clark & Valdez) 4hrs, 4hrs
	2nd	88+00' – 14 hours	(Clark 7, Valdez 7)

GOLDFIBRE

9/29/59

Cowan Wed. or Thursday

1

Death Valley. Back Wed.
Noon

4.5 $\overline{57}$

13 mils

9/30/59

Oliver Graham. 0.85¢ Patagona

Al: Tues-14S – 1 1/4 W (from H.L.-West)
Wed-18S – 13W to 29W 1.0=E dip
0.77

Charlie –: 30S? – 1M. done – 1 1/2 E (2Mi E H.L. complet)
8Sta

---

if No can find anyone.
Start line: 22 S : E-2Mi
W-1M.

Charlie:
below 24S.
on 28S or 30S going W.
or 26S E or W will be flagged

~~[illegible]~~

Phone Call from Al Clark: 9/30/59
at Tomb
collect to Main 2 & 202

10-15 Minutes ±

MHH

9/26/59.

P-I-A

Semi final – Final ? maps.

1.– Afmag High frequency (510 cps.)

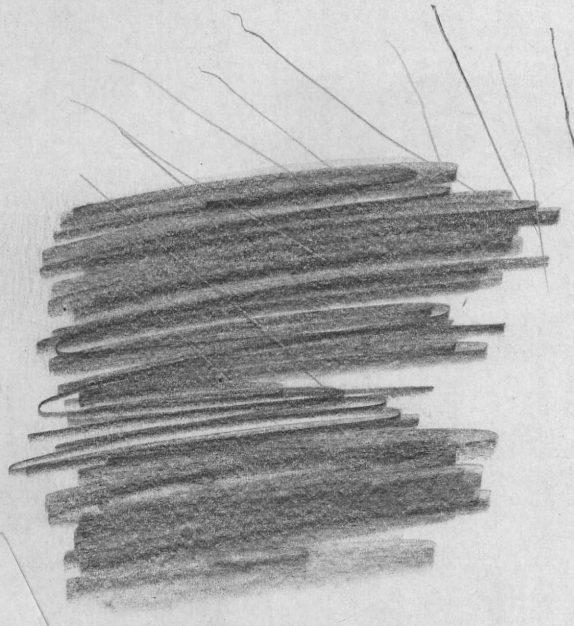
2.– " Low " (150 cps)

3.– Mo Mag

All to same or similar base, same scale.

4" = 1 Mile as geol plan.

transparencies from which 3 positive films each will be made, we will keep originals.



[redacted]

V. Wood.

9/25/59

Surveying

2 man crew = 100.00/day

3 " " = 150/day.

111 or 112 claims.

Elev. control on some central located brass cap. transit level.

Engineers B.M. near fork to Harmon ranch.

Mail Geochem strips every day to John Wood at Alb.

15 days.
200 average/day
3000
400.00/posts.
3400.00
300.00 Subs.
3700.00
500 Vehicle
$4200.00 = 4500.00 budget. by John.

15
20.00 Subs.
300

Finish Afmag by 30th if possible.

3 Positive films each of Afmag & Mamag.

Afmag progress summary and total for project
Mamag " " "
& Geochem

Repeat. Line

Chechen - 24S - 12E to is 150'E of 1/4 cor. 33E Sta 160' past 1/4 corner. E.

Run.

23 Sept - 28S - 13E - 39E

Al & Don Green.
(w/ J Wood)

Sent screen. for next monday

8/1/59

John Wood Office: Alpine 6-1675
Home: " 5 6878
Chapped 2 5981

Call Stan.
Noon plane. few errands around town.
late afternoon at check office
out early Tues.

Geochem. kit on 24S.
detail.
32S etc. closing 24S.
3PM & 5PM. Biltmore this Friday leave
5:35 PM Plane for
Albuquerque.

5.65 for 17 Minutes
$.57 (10%)
6.22

6:45 } 25 minutes 9/18/59 16 Min
7:10

Afmag – 2 miles – 2 days more. 3.50 + tax

2 lines on each set of State done.
" " 1/2

MoMag –:
4 Miles W of base line on Harmons not done.

8 Sec Done # 7, 16, 17, 19, 20, & 2 below that
1/2 of other one.

between 16–17 – NW–SE trend.
Sharp from Sugar Loaf. 2nd hill

Some anomalies yes

9/18/59

7:15 Monday evening conference or
7:27 Tues Morning. on Mo May & Afmag.
$2.80 + tax 11) 12 Minutes results
minutes.

Ever Make pass at Cowan Monday if
that has data ready.

Mo-May Sec 9/16/59

Line 32 S - SW Cor of 20 } 2 mi
SE " " 21

Line 30 S - W end of 20 } "
E " " 21

" 28 S (1/4 (19 & 20)) 3 "
1/4 - 22 & 23

" 26 S W end of 20 3 "
E " 22

" 24 S SW of 17 2 "
SE " 16

" 22 S Hilonsome Road
in Sec 18 2 1/4 "
To E end of 16

Line 24 S to 1 "
" 32 S - N-S on Hilonsome

4 - 1320' end runs 1 "

SW - of 17 to Valley bayou N — 3 1/2 "

(16 1/4 asked for) 19 3/4 "

John Wood call.: 9/15/59

25th Sept complete posts on State claims

No Mag by end of Month - estimate Calif Job.

John leaving for Calif today
will call again Friday Vite 18th.

May not complete Atmy this week. will try.

GOLD FIBRE

AFMAG.:

345 across Sec 29

(13E - 26E)

9/16/59 Call from Bill in Tomb.

22 minutes - 3.35 + 11%

37

$3.72

Chg. C W & G

3.35
3.35
.3685 = 37

9/19/52

77 posts needed

to stake each unstaked

corner of both

Chuza groups.

---

84 posts needed to

stake 4 new federal

claims — Chaco 107, 108, 109

& 110

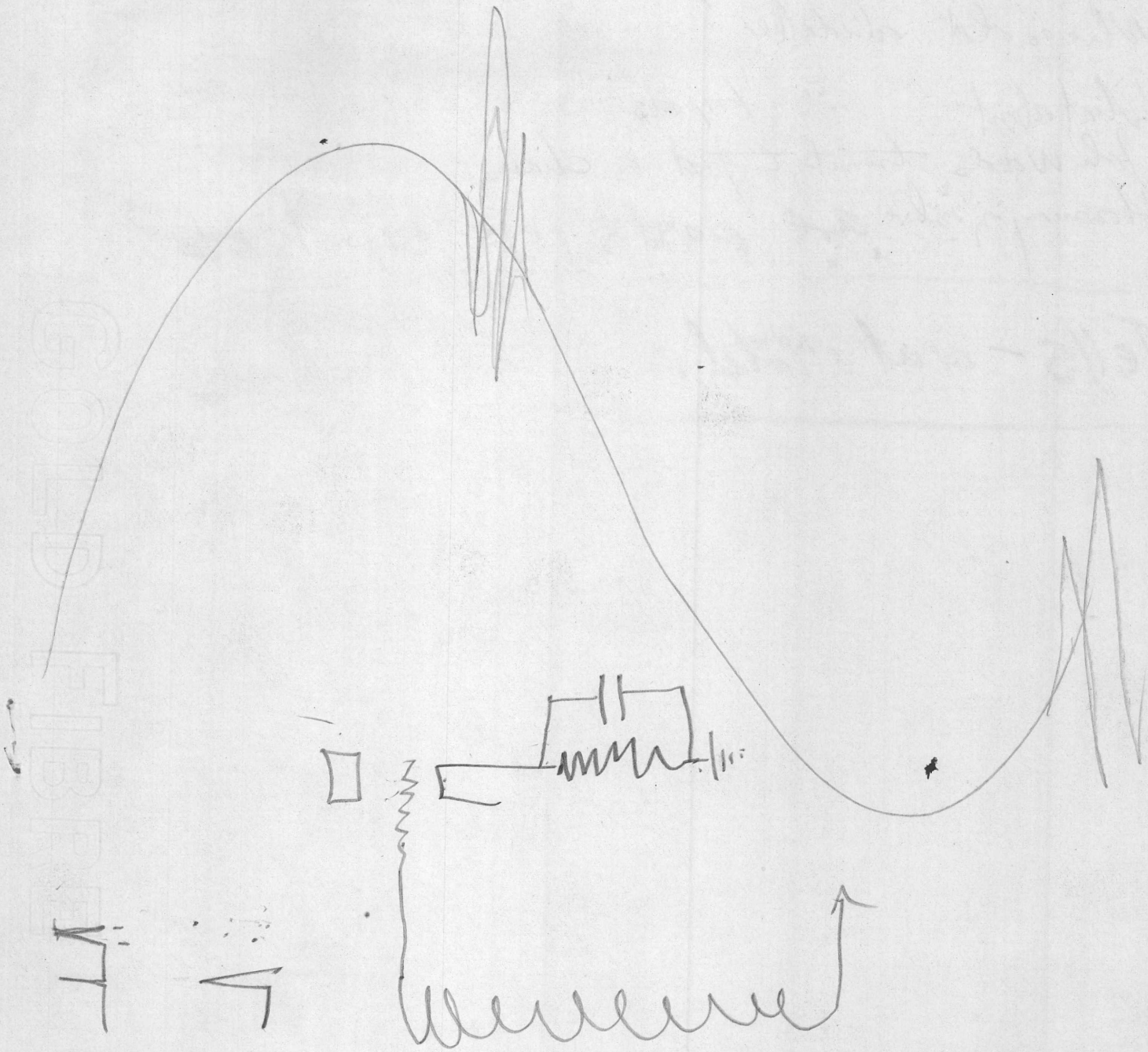
9/14/59

Call to Esser in Wickaberg -:

Where is old alidade?

What about .. tripods
John Woods ~~transit, tripod~~ & chains
Howmany & where are posts, pegs signals etc?

Tells - or at Motel.



(from Frank Metler 9-11-59)

Kitt Peak

Drilling water hole S56W at 2° up
NX - collored in dirt

Re John Wood, P-1-A
Quote $75.00 per shift + $3.00/foot for coring
+ $1.50/foot for rock bitting.

This is for normal drilling reduction →

If NX all the way to about 500', above costs + reaming at $3.00/ft during shift time at usual 75.00/shift. If cementing done, the usual 75.00/shift plus the cost of the cement.

If NX beyond about 500', must be open to renegotiations in the light of the drilling to the 500'. Might continue at same rate, might charge an extra cost per hundred feet.
For example: 3.00/ft for 1st 500
3.40/ft from 500-600
3.80/ft " 600-700
etc.

If they can get water from Telles they will haul it for free. If have to get it at any distance, such as Elfrida or Grizzlo's there will be haulage charge.

6
.10
.60

NE cor Sec 25 – 4 More claims

State notices to recorded today.

Air Mail Notices today

posted Monday

Chaco. 1-7 - 110

Piston

Telles bus posts. No Al plates

in cans.

in post holes diggers use Magic Markers.

Clah

---

within 30 days rest of posts on State.

set same range pole in chain.

9/9/59.

Grover, take another Pot Shot at Cowan again. to get him to read a ~~[illegible]~~ draft of a proposed agreement.

75.00
150.00
3.00

NX all the way.

Terrian at death valley w/ Stiger re:
Cost & time Mo May.
black Sand etc.
10,700 acres.

8"/mile photo of all pits etc.

Vancouver -: (Ted)
15°-16°-N dip
plunging anticline.
12-0's - Hi So, several readings.

2.5
.25

2.50
1.10

~~Parker Inc.~~
Cherry 4-5496

9/4/59

Hal Warnock, State:

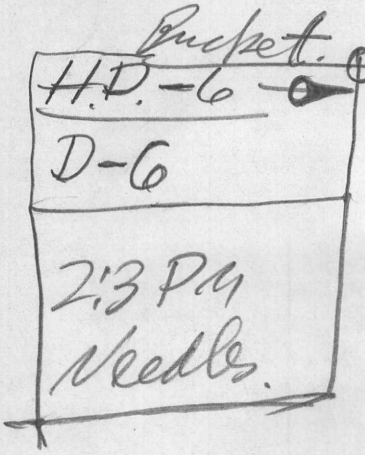
Drill any 160 acres -:

drilling & G.P. may be

acceptable.

4113 E. Wittier

AH-5-6878 John Wood.



Denver on Wed.

9/5/59.

Tuesday.

9/6/59.

Ted Gallagher called: HD-6 not adequate.

Neff located D-7?

" to fly up tomorrow to aid as can.

RV.

9/5/59

Operator & Mechanic.

HD-6 G → Bucket loader.

D-6

Pat. Turner. Allis Chalmers.

~~Ax~~ 8-1397

Weights Spec.

Eqpt: Tonite

1:30 at Nixon

At Shoshone at 5:30

Pickup & Welder New engine

4 holes / 12 hrs.	15
3 hrs / hole.	60

GOLD FIBRE

Odell Power,
At Eadsland at Miami
W.V. Pilarski Mgr.
Contract Drill Div
Ivey Manufacturing Co.
900 Woodland Ave,
Mishawaka, Ind.

Letter; re: P-1-A. drilling

Shoshone Motel
" #1 (General Store)
T.C., San Bernardino - 1214?

John Wood: 8/26/59

Re: Cal Placers etc.

Almost certain that the same statutes are still in effect per other recent similar investigations in check with competent legal authority at that time

Pafford & Associates — Don Jones (official) (V.P.?)
1908 W. Beverly Blvd
LA 57, Cal.

Phone: DUnkurk 5-5464

Stitzer —:
$500.00/Section or $8000.00 ± max, 2 way radio, stadia
$1600.00 minimum determine old corners. establish centers.

Photos

500
40
200,000

$150.00/day check w/highway & county engineers & surveyors 1st.

Land plats & notes etc. $200.00 ±

$200.00

T 20 1/2 N
T 20 N } R 4E SBBM
T 19 N

Inyo & San Bernardino Counties

Sunday Nite N Mon. Jan - advise → Meet John ∧ T.S. Platt. order by Phone 2 copies.

Mail → El Rancho Motel
Baker, Calif after Sat. P.M. 8/29

Mo May week of 31 Aug - Sept 4.

Posts & Surveying 27th.

No S.P. yet. maybe tomorrow.

" leave for Alb. Tomorrow - Sat afternoon, Las Vegas 98% definite.
John will call Sunday to Compine Stitzer.
" back Albq. 7 Sept

Blow sand re: ditcher & 1st dozer.

Metters minimum 1500' - Sec 16 & 17 2 or 3 setups.

3 shifts Rock to B.R. then core N & to start high core recovery
No Slurdge.. after checking core recovery,
include putting in Boxes. Boxes furnished by client
they furnish water trap. " arrange for
& pay for water. via tellies.

---

also check Joy.

70
20
1400

1000

John Wood. 8/18/59

1. Put discoverys on ground. 1st

2. Tues afternoon or Eve.

3. Only Cowan & Telles on 1 sec or 2 sec.

4. Geoex make approaches initially.

(a)

(b) Martin Gentry, via Hal if Geoex not contact,

5. (a) Surface separate & apart.
restore or compensate.

(b) Minerals need 18 Mos - 2 years to establish by fee.
roalty

6. Tombstone 8 P.M. will call here.

7. 350.00/day on Mo May.

8/17/59

Water Source for drilling 2

Dips, conductivity, ½ Ratios — excess of 1

all other. less than 1

16S 5 Sta east

re run 2 miles in Sec 7 & 12

½ west of 9

Sa

Rented 1 ton stake. —

Sunday Nite → Thursday drive over. Meet Friday at Tomb.

Survey crew on Monday

1 Man 3 — 2×2-9"

4 - 2 man crews.

2-3 man crews.

P

2 Transit # of finishing nails.

4 Augers. cor post

25' paced on end center.

---

40 E

24S - WOE - 39 E on 400' ⊙

20S - 39E - 16E - 800'

4EE

33
6
198

200 | 4-2 man crews.

3 — 3 Man Sinking Crew.
John bring Transit in 500' tape.
12" stake.

200
2x2 Stake. H.I.

17 Miles.

S.P.
Ds

Friday — 8/15/59

Monday computing &/or geochem.

ratios tabulated Strong Med. Weak.

depth

4 copies
mind Monday Nite.

Land 1/4 mi strip E.W. 3 miles 24 S N of the Fed
2/3 of 2 sec state land. 19-20-21 exist tells in 15

Next fri afternoon meet Hal & John. friday Nite.

thursday nite tombstone
Wed will call.

P-1-A

8/5/59

1. Continue AFMAG as assigned (see Proposal Memo & B.L. Print of 8/4/59) dashed red lines added at 1/4 mile intervals fill in & extensions & repeats.

2. S.P. line 24 S. preliminary to test for oxidizing sulfide above 200' ±

3. 1000 State land notices after seeing Vic on 8/10/59

August 5, 1959

PROJECT P- 1 - A

Proposed AFMAG lines supplemental to 8/4/59 :

Line	Distance from BL		Profile Mile
6S	0.5 W	0.5E	1.0
10S	1.0W	2.0E	3.0
14S	1.0W	2.5E	3.5
18S	2.0W	2.5E	4.5
22S	2.0W	0.75E	2.75
26S	2.0W	(0-1 & 2-3)=2.0E	4.0
28S	1.0W	0.5E	1.5
30S	1.0W	3.0E	4.0
			24.25

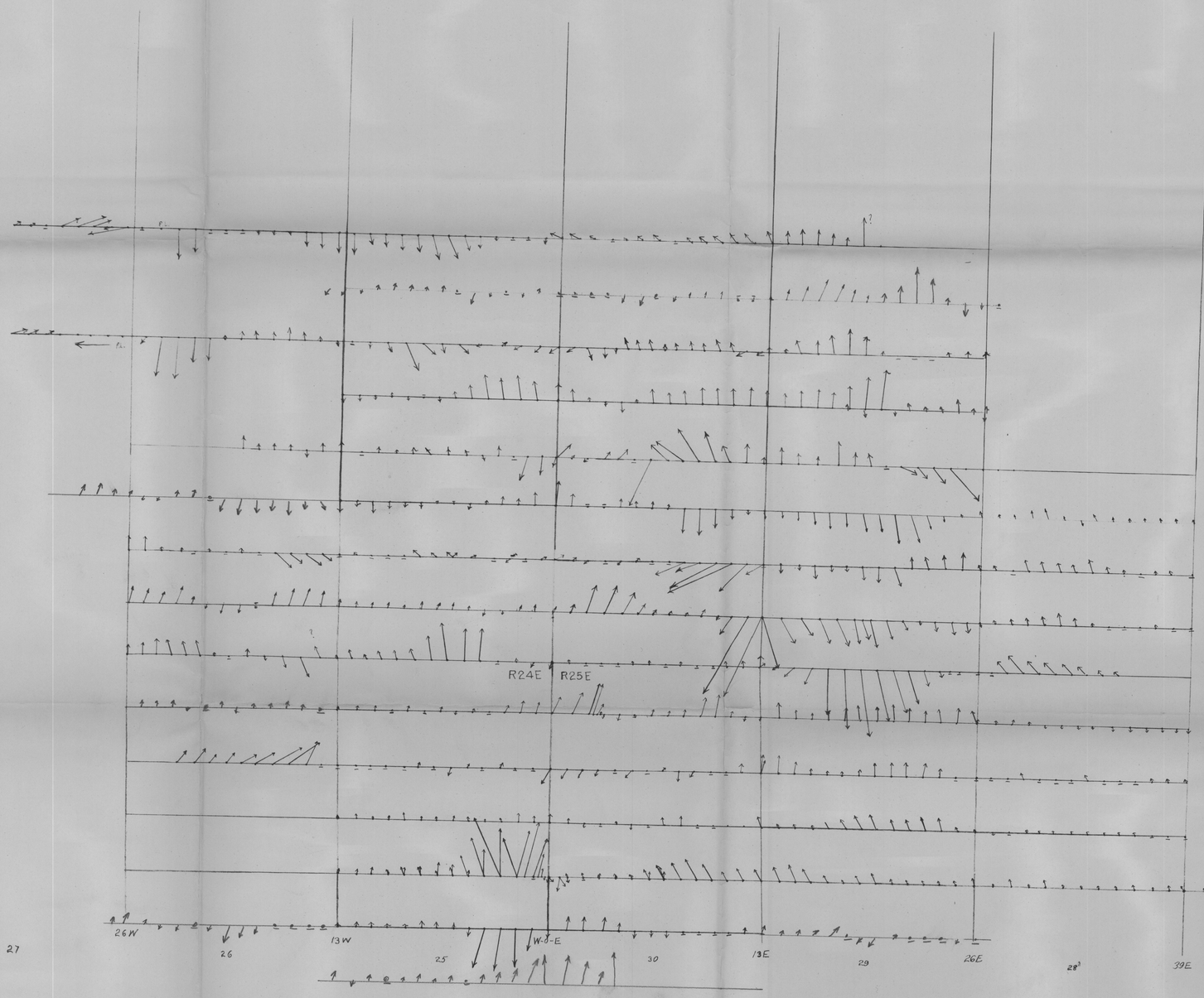
3 miles per day under good weather conditions

Proposed Self Potential Line:

24S	2.0W	3.0E	5.0

1 to 1.5 miles per day ($150.00 crew/day)

Line 3R N



COURTLAND-GLEESON AREA
COCHISE COUNTY, ARIZONA

PROJECT P-1-A

AFMAG SURVEY

FOR

CHAPMAN, WOOD & GRISWOLD, ALBUQUERQUE, NEW MEXICO

BY

HEINRICHS GEOEXPLORATION CO.
TUCSON, ARIZONA

DATE 9/12/59

High Frequency Azimuth Only

J. Wood:

Re: Considerations for applications of Geophysics in SE. Missouri.

Dear John:

Relative the above and your call of 2 Nov 1959:

Either directly and/or indirectly, geophysics has contributed very much to the resultant activities in the area. Initial impetus toward a revival of interest ~~[illegible]~~, the last several years, was the development of substantial iron by a combine of St. Joe Lead and Bethlehem Steel. This was the direct result of drilling a prominent U.S.G.S. &/or state aerial magnetic high. Earlier work had assumed and/or indicated, these highs were merely a reflection of larger submarginal concentrations of magnetite in the deeper basement rocks. However, it is now known that at least some of them are smaller-shallower concentrations of higher grade magnetite.

Theoretically, the natural force field methods such as gravity and magnetics, have no direct depth limitation as such, that is, based on absorption or reflection and diminution of returned energy etc., encountered in most of the other methods. At any point, your measurement is a total integrated resultant of all effects which boil down to relative size, shape, distance away and physical property contrast (density or magnetic susceptibility as the case may be). Thus, larger structures may be delineated to great depths while tiny features will only show up when very shallow.

The case in point seems to relate to two general types of environment. One is in the "basement porphyry" itself and the other is at or near the "shore line" contacts or "pinch outs" of the shale covered carboniferous sediments where they lap on to knobs in the porphyry or are severely arched over the underlying porphyry.

~~Therefore, the ideal geophysical approach has been as follows~~ Naturally, in actual practice there have been a multitude of geological-geophysical combinations, variations, omissions, and results; but the ideal approach has been as follows:

1. Regional airborne magnetics, followed or checked by, regional gravity data, both State, U.S.G.S., and private @ $100.00/sq mile.
2. More detailed ground magnetics and occasionally gravity. at $100.00 to 500.00 per sq mile
3. Induced potential or pulse potential electrical surveys. $1000.00-2000.00 per sq mile.
4. Seismics @ $3000.00-$5000.00/sq mile
5. Drill hole methods, 10¢ to 50¢/foot of hole.

~~[illegible] methods, only the electrical~~

Jack Barkon. | Lamont. LS. Knobs. | I.P. McPhar.

Because of magnetite association with basement structure, the basement magnetite deposits, and some phyrrotite in a few of the sedimentary deposits successful method, magnetics has been by far the most used and both in direct detection, as well as in indirect related structural delineation. Not enough detail gravity work has been done to be able to fully evaluate its usefullness. So far the regional results have not been too helpful. Most of the targets are too deep for the electrical methods, except I.P. & P.P. work, which several of the companies are now using, with success so far unreported; but it should help down to 2000' ±. If Afmag works anywhere to these depths it should work here just as well.

Jack James.
John Brown Mineral Conference at St Louis.
Joe Barton — 14 Areas
Verbernium, St. Joe.

Churn then D.D. 2.50/foot.
Pea Ridge Small Anomalies.

" AM Metal
" " Zinc (Boss) Fe & Base Metal. Cu.
A.S.&R. 10,000 Acres So. of Palmer Fault.
Magnet Cove.
Dresser.
N.J. Zinc
Magnet Cove.
Shannon Cty — Kennecot
Reynolds — St. Jo. " & Am. Metals.

National — N. of St Louis
Bt Independence 2 902 for Iron. So of that So of River.

3 groups have flown.

43 Work.
State Gravity Regional)

In the past, seismic has been too expensive for much work to have been done, but now the relative economics are much better and there will be occasional favorable applications, because of its relative unlimited depth resolution. Drill hole methods will be of occasional secondary help, but cannot be used as a primary approach.

As near as I have been able to determine, what roads and/or terrain permit, the area might be ideal for initial process of wildcat areas or in detailing or extending known areas where applicable. we have had several tentative inquiries but so far no work in the area. Apparently considerable hand work is being done to pick up things missed, or detail lacking, in the aerial work.

Hope this will help some. Let me know if more is needed. May get some additional info at L.A.

Sincerely,

Encl: Extra copy
Memo.
3 each, Lines 325 & 245 SP.

FIBRE GOLD

Advance Sheet
Subject To Correction

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PEARCE QUADRANGLE
ARIZONA—COCHISE CO.
15 MINUTE SERIES (TOPOGRAPHIC)

Mapped, edited, and published by the Geological Survey
Control by USGS, USC&GS, and USCE
Compiled in 1959 from 1:24 000 scale maps of Outlaw Mtn., Hay Mts., Potter Mtn., and Gleeson SE 7.5 minute quadrangles, surveyed 1957-1958
Topography from aerial photographs by ER-55 plotter
Aerial photographs taken 1955. Field check 1957-1958
Polyconic projection. 1927 North American datum
10,000-foot grid based on Arizona coordinate system, east zone
1000-meter Universal Transverse Mercator grid ticks, zone 12, shown in blue
Dashed land lines indicate approximate locations
Unchecked elevations are shown in brown

APPROXIMATE MEAN DECLINATION, 1958

CONTOUR INTERVAL 40 FEET
DATUM IS MEAN SEA LEVEL

SCALE 1:48 000

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER 2, COLORADO OR WASHINGTON 25, D. C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ARIZONA
QUADRANGLE LOCATION

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

This area also covered by 1:24 000 scale maps of Outlaw Mtn. 1958, Hay Mts. 1957, Potter Mts. 1958 and Gleeson SE 1958 7.5 minute quadrangles

GLEESON, ARIZ.
N3135—W10945/15
1958

R24E R25E

10 11 12 7 8

32N

16 15 14 13 18 17

28N

EXPLANATION

24N

21 22 23 24 19 20

T 19 S

20N

16N

28 27 26 25 30 29

12N

8N

33 34 35 36 31 4N 32

LINE 0

4 3 2 1 6 5 4

4 S

T 20 S

9 7 8 12S 9

16 15 14 13 18 17 20S 16

R24E R25E

COURTLAND – GLEESON AREA
COCHISE COUNTY, ARIZONA

PROJECT P-1-A
AFMAG SURVEY
FOR
CHAPMAN, WOOD & GRISWOLD, ALBUQUERQUE, NEW MEXICO
BY
HEINRICHS GEOEXPLORATION CO.
TUCSON, ARIZONA

DATE July 22, 1959

Low Frequency Azimuth Only
↗ indicates direction & degree of tilt

↑ To Gleeson

Rec. #27 9-18-59

9-16-59

Rec. #28 9-18-59

Rec. #29 9-18-59

Rec. #7

Rec. #30 9-18-59

Rec. #14 9-17-59

Rec. #15 9-17-59

Rec. #16 9-17-59

Rec. #17 9-17-59

9-16-59 Rec. #6

Rec. #18 9-18-59

Rec. #5 9-16-59

Rec #19 9-18-59

Rec. #1 9-16-59

Rec. #20 9-18-59

Rec. #21

Rec. #3 9-16-59

Rec. #22 9-18-59

Rec. #23

Rec. #24 9-18-59

Rec. #4 9-16-59

Rec. #25 9-18-29

Rec #26 9-18-59

Rec. #11 9-17-59

Rec. #9 9-17-59

Rec. #10 9-17-59

Rec. #13 9-17-59

Rec. #12 9-17-59

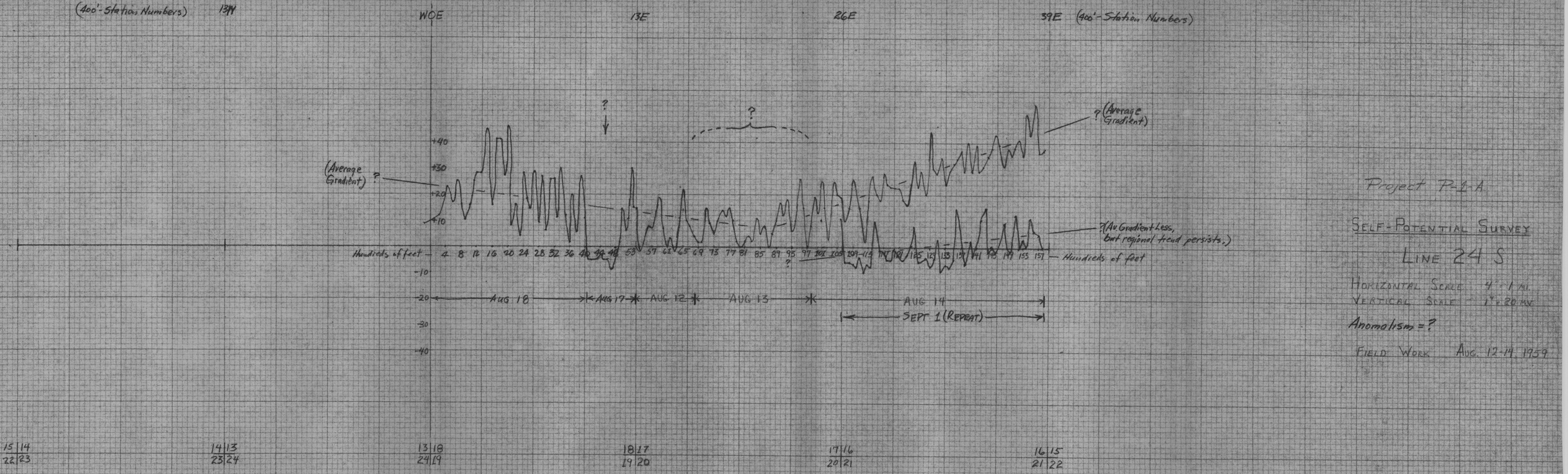
Rec. #2 9-16-59

8 7 18 17 16 20 21 29 28 30 31 32

There is Only ONE GENUINE FLEX-O-GLASS

There is Only ONE GENUINE FLEX-O-GLASS Made Only By Ware Bros.

FLEX-O-GLASS



Project P-1-A

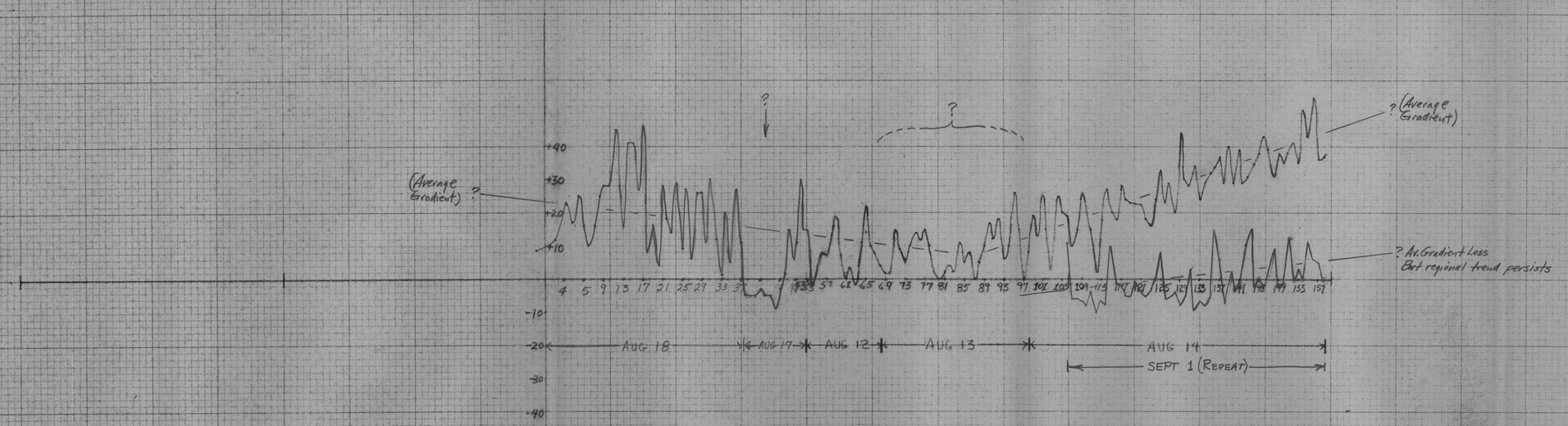
SELF-POTENTIAL SURVEY

LINE 24 S

HORIZONTAL SCALE 4" = 1 MI.
VERTICAL SCALE 1" = 20 MV.

Anomalism = ?

FIELD WORK AUG. 12-19, 1939



Project P-1-A

SELF-POTENTIAL SURVEY

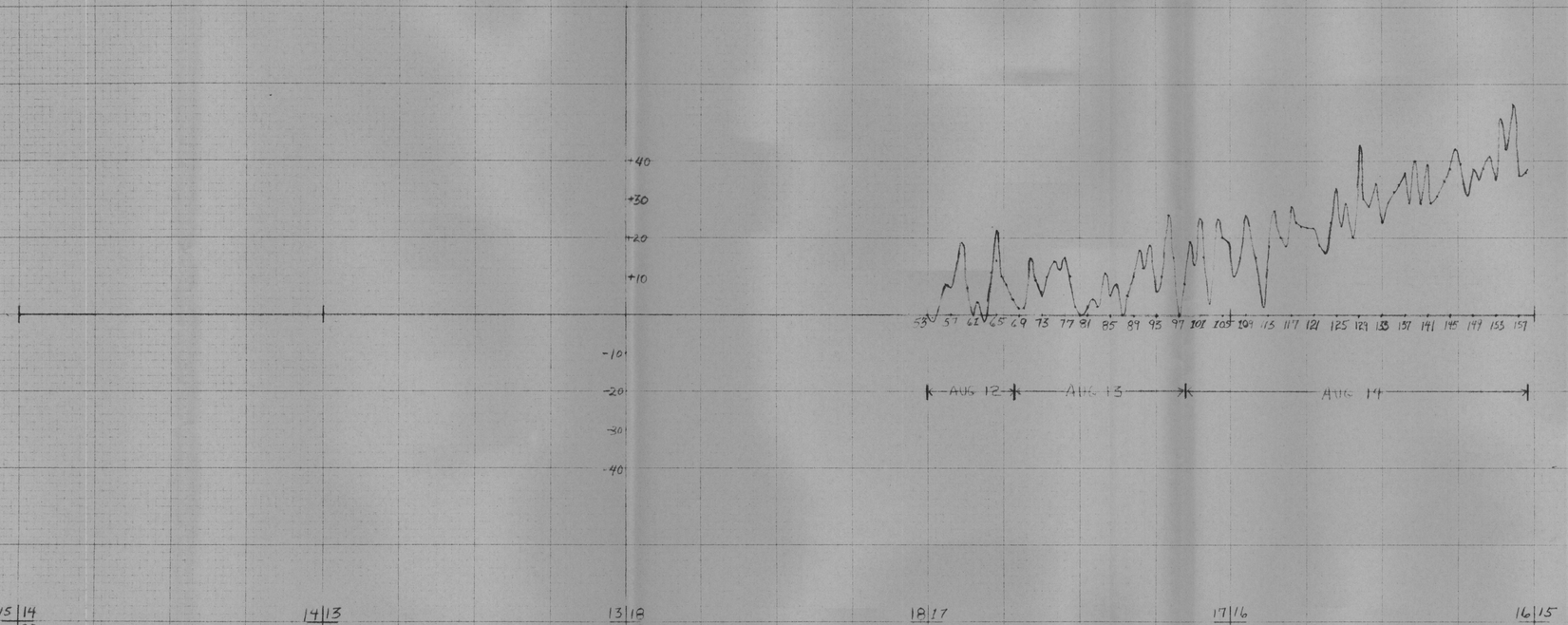
LINE 24 S

HORIZONTAL SCALE 4" = 1 MI.
VERTICAL SCALE 1" = 20 MV

Anomalies - ?

FIELD WORK AUG. 12-14, 1959

15 | 14 22 | 23	14 | 13 23 | 24	13 | 18 24 | 19	18 | 17 19 | 20	17 | 16 20 | 21	16 | 15 21 | 22



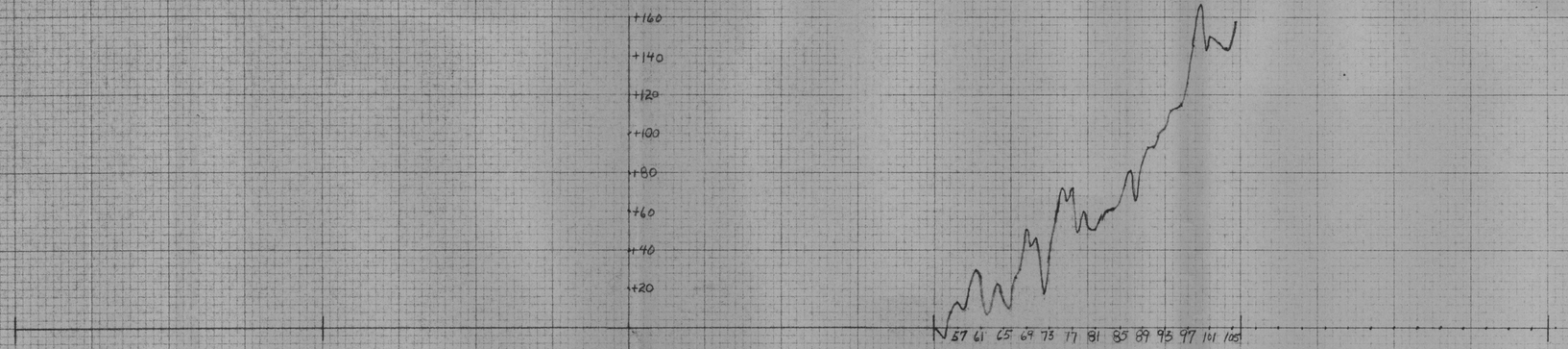
Project P-1-A

SELF-POTENTIAL SURVEY

LINE 24 S

HORIZONTAL SCALE 4" = 1 MI.
VERTICAL SCALE 1" = 20 MV

FIELD WORK AUG 12-14, 1954



15|14
22|23

14|13
25|24

13|18
24|19

18|17
19|20

17|16
20|21

16|15
21|22

Project P-1-A

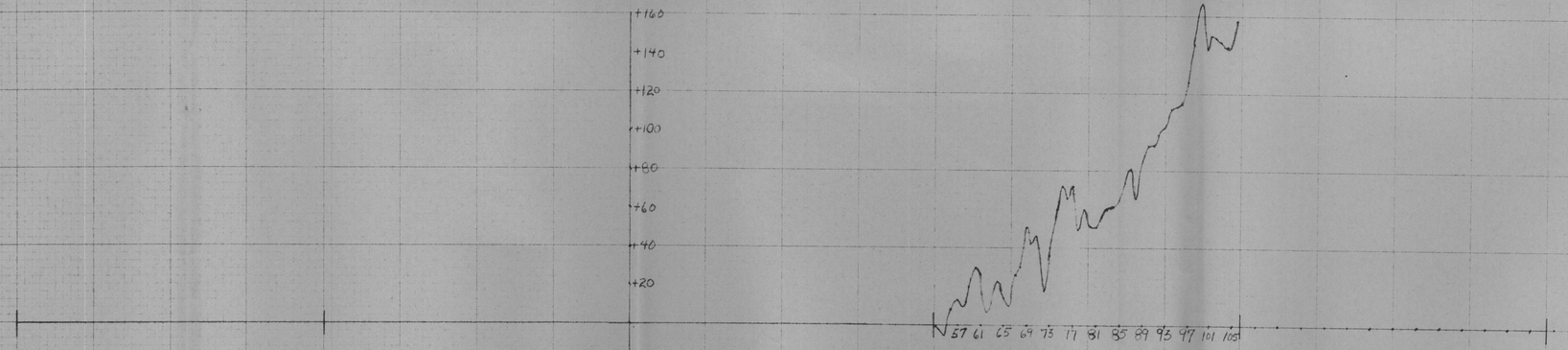
SELF-POTENTIAL SURVEY

LINE 24 S

HORIZONTAL SCALE 4" = 1 mi

VERTICAL SCALE 1" = 40 MV.

FIELD WORK AUG. 11, 1959



15|14
22|23

14|13
23|24

13|18
24|19

18|17
19|20

17|16
20|21

16|15
21|22

Project P-1-A

SELF-POTENTIAL SURVEY

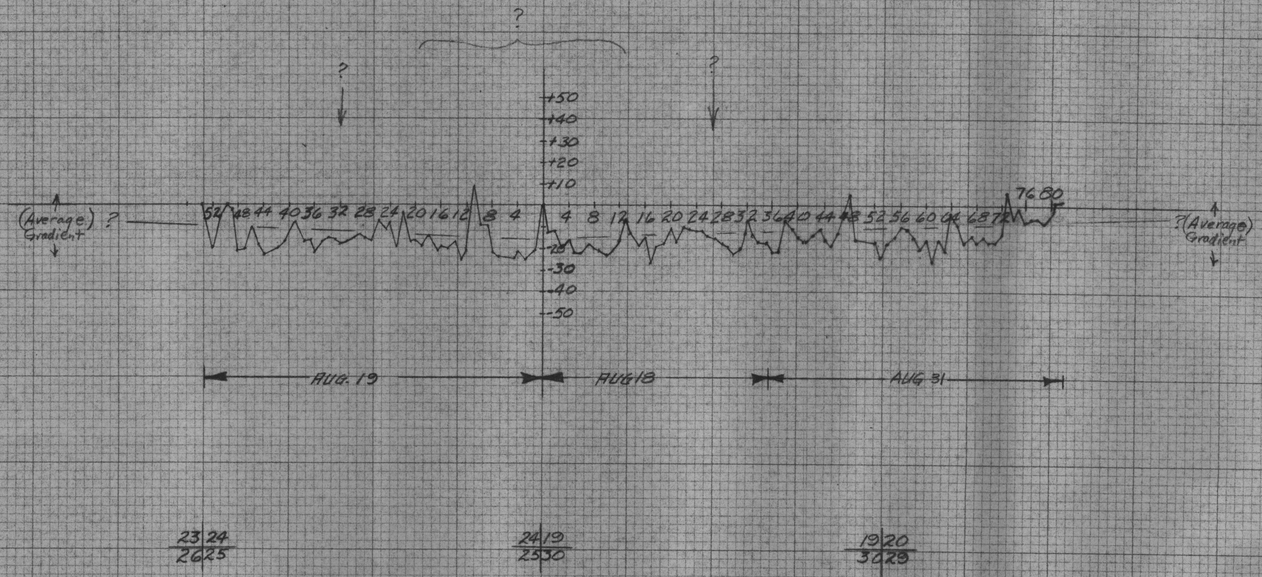
LINE 24 S

HORIZONTAL SCALE 4" = 1 MI.

VERTICAL SCALE 1" = 40 M.V.

FIELD WORK AUG. 11, 1959

(400'-Station Numbers) 26W 13W W O E 13E 26E (400'-Station Numbers)



PROJECT P-1-A

SELF-POTENTIAL SURVEY

LINE 32 S.

HORIZONTAL SCALE 4" = 1 MI.
VERTICAL SCALE 1" = 40 MV.

WEAK ANOMALISM - ?

FIELD WORK DONE AUG. 18-19, 1939

To Gleeson

Rec. #27 9-18-59

Rec. #28 9-18-59

Rec. #29 9-18-59

Rec. #30 9-18-59

Rec. #14 9-17-59

Rec. #15 9-17-59

Rec. #16 9-17-59

Rec. #17 9-17-59

Rec. #18 9-18-59

Rec #19 9-18-59

Rec. #20 9-18-59

Rec. #22 9-18-59

Rec. #24 9-18-59

Rec #25 9-18-59

Rec. #26 9-18-59

Rec. #23

Rec. #21

Rec. #11 9-17-59

Rec. #9 9-17-59

Rec. #10 9-17-59

Rec. #13 9-17-59

Rec. #12 9-17-59

Rec. #8

Rec. #6

Rec. #5 9-16-59

Rec. #1 9-16-59

Rec. #3 9-16-59

Rec. #2 9-16-59

Rec. #4 9-16-59

Tksi

Qtb

Tsl

Tst

8

16

17

18

20

21

30

29

28

31

32

Area Gleason

8	9
17	16

Location Line 32 N Station 14E

1. Battery Test

A' 41
A² 41
A³ 45
B' 45
B² 41

2. Balance Check

Deviation 1/2 Division

3 A.C. Gain Check

	lev 1	lev 2
A High Frequency Max	40	40
High Frequency Instr. Noise	8	8
B Low Frequency Max	40	40
Low Frequency Instr. Noise	6	0

4 Signal to Noise Ratio

	Low	High
A Instrument Noise	5	38
B System Noise	20	55
Ratio	1/4	2/3

AFMAG DAILY LOG

Date: 7/24/59

Area: Gleason

Location: Line 4 S Sta 13 E

1. Battery Test:

A^1 41
A^2 41
A^3 45
B^1 44
B^2 41

2. Balance Check:

Deviation 1/3 Divisions

3. A. C. Gain Check

	Lev I	Lev 2
a. High Frequency Maximum	40	40
High Frequency Instrument Noise.	0	0
B. Low Frequency Maximum	40	40
Low Frequency Instrument Noise	0	0

4. Signal to Noise Ratio

	LOW	HIGH
a. Instrument Noise	4	35
b. System Noise	60+	60+

	LOW	HIGH
Ratio:	1/15	1/2

AFMAG DAILY LOG

Date: 7/23/59

Area: Gleason

Location: Line 16 S STA 0E

1. Battery Test:

A^1 41
A^2 41
A^3 43
B^1 45
B^2 41

2. Balance Check:

Deviation 1/2 Divisions

3. A. C. Gain Check

	Lev. 1	Lev. 2
a. High Frequency Maximum	40	40
High Frequency Instrument Noise.	0	1
B. Low Frequency Maximum	40	40
Low Frequency Instrument Noise	3	1

4. Signal to Noise Ratio

	LOW	HIGH
a. Instrument Noise	6	38
b. System Noise	50	50+

	LOW	HIGH
Ratio:	1/8	4/5

4 35
30 60+

AFMAG DAILY LOG

Date: 7/22/59

Area: Gleeson

Location: Line 225 Sta 9E

1. Battery Test:

A^1 41
A^2 43
A^3 45
B^1 45
B^2 41

2. Balance Check:

Deviation 1/2 Divisions

3. A. C. Gain Check

	Lev 1	Lev 2
a. High Frequency Maximum	40	40
High Frequency Instrument Noise.	6	4
B. Low Frequency Maximum	40	40
Low Frequency Instrument Noise	4	2

4. Signal to Noise Ratio

	Low	High
a. Instrument Noise	4	35
b. System Noise	30	60+

Ratio:	Low	High
	1:8	1:2

AFMAG DAILY LOG

Date: 7/21/53

Area: Gleason

Location: Line 28 S 2+ 13E

1. Battery Test:

A^1 41
A^2 42
A^3 45
B^1 44
B^2 41

2. Balance Check:

Deviation 1/2 Divisions

3. A. C. Gain Check

	LEV 1	LEV 2
a. High Frequency Maximum	40	40
High Frequency Instrument Noise.	10	3
B. Low Frequency Maximum	40	40
Low Frequency Instrument Noise	4	2

4. Signal to Noise Ratio

	LEV 1 LO	LEV 1 HI	
a. Instrument Noise	4	35	
b. System Noise	20	60+	1

Ratio: LO 5/1 HI 7/1

AFMAG DAILY LOG

Date: 7/20/50

Area: Gleeson

Location: Sta 13E Line 205

1. Battery Test:

A^1 42

A^2 42

A^3 46

B^1 46

B^2 42

2. Balance Check:

Deviation 1/3 Divisions

3. A. C. Gain Check

	Lev 1	Lev 2
a. High Frequency Maximum	40	40
High Frequency Instrument Noise	0	0
b. Low Frequency Maximum	40	40
Low Frequency Instrument Noise	1	0

4. Signal to Noise Ratio

a. Instrument Noise_____

b. System Noise_____

Ratio:_____

AFMAG DAILY LOG

Date: 7/18/59

Area: Gleason

Location: Sta 13 E 52+80 E

1. Battery Test:
   - A^1 41
   - A^2 41
   - A^3 45
   - B^1 44
   - B^2 41

2. Balance Check:

   Deviation ½ Divisions

3. A. C. Gain Check

	Lev 1	Lev 2
a. High Frequency Maximum	40	40
High Frequency Instrument Noise	0	0
b. Low Frequency Maximum	40	40
Low Frequency Instrument Noise	3	0

4. Signal to Noise Ratio

	Low	High
a. Instrument Noise	5	3
b. System Noise	40	40

Ratio: _____

AFMAG DAILY LOG

Date: 7-17-59

Area: Gleeson

Location: 18 | 17 / 19 | 20

1. Battery Test:
   - A^1 42
   - A^2 42
   - A^3 46
   - B^1 44
   - B^2 42

2. Balance Check:
   Deviation 1/2 Divisions

3. A. C. Gain Check

	Lev 1	Lev 2
a. High Frequency Maximum	40	40
High Frequency Instrument Noise	1	0
b. Low Frequency Maximum	40	40
Low Frequency Instrument Noise	1	0

4. Signal to Noise Ratio

	Lo	Hi
a. Instrument Noise	0	4
b. System Noise	40	45

Ratio: — | 10/1

AFMAG DAILY LOG

Date: 7/16/59

Area: Gleeson

Location: Line 125 Sta 15E

1. Battery Test:

A^1 42

A^2 42

A^3 46

B^1 44

B^2 41

2. Balance Check:

Deviation 0 Divisions

3. A. C. Gain Check

	Lev 1	Lev 2
a. High Frequency Maximum	40	40
High Frequency Instrument Noise	4	0
b. Low Frequency Maximum	25	40
Low Frequency Instrument Noise	4	0

4. Signal to Noise Ratio

	Low	High
a. Instrument Noise	0	4
b. System Noise	20	30

Ratio: _____

AFMAG DAILY LOG

Date: 7/15/59

Area: Gleeson

Location: Line 12 S Sta 25W ¼ corner 10/11

		8:30	11:00
1. Battery Test:	A^1	43	42
	A^2	43	42
	A^3	47	46
	B^1	45	46
	B^2	42	42
2. Balance Check:			
Deviation		½	½ Divisions

3. A. C. Gain Check (Under Power Line)	Lev 1	Lev 2
a. High Frequency Maximum	40	40
High Frequency Instrument Noise	0	0
b. Low Frequency Maximum	40	40
Low Frequency Instrument Noise	2	1

4. Signal to Noise Ratio	LOW	HIGH
a. Instrument Noise	1	3
b. System Noise	20	25
	20:1	8:1

Ratio: _____

AFMAG DAILY LOG

Date: 7/14/59

Area: Gleason

Location: Line 85 Sta. 0 E

1. Battery Test:
   - A^1 44
   - A^2 44
   - A^3 48
   - B^1 45
   - B^2 43

2. Balance Check:

   Deviation 0 Divisions

3. A. C. Gain Check

	Lev 1	Lev 2
a. High Frequency Maximum	40+	40
High Frequency Instrument Noise	0	0
b. Low Frequency Maximum	40	40
Low Frequency Instrument Noise	2+	0

4. Signal to Noise Ratio

   a. Instrument Noise 510μ ±2 150μ ±1

   b. System Noise ±25 " ±12

Ratio: 1/12

AFMAG DAILY LOG

Date: 7-13-59

Area: Gleeson.

Location: Line 8.S. Sta 13E.

1. Battery Test:

A^1 44+

A^2 44+

A^3 49

B^1 46

B^2 44

2. Balance Check:

Deviation 0 Divisions

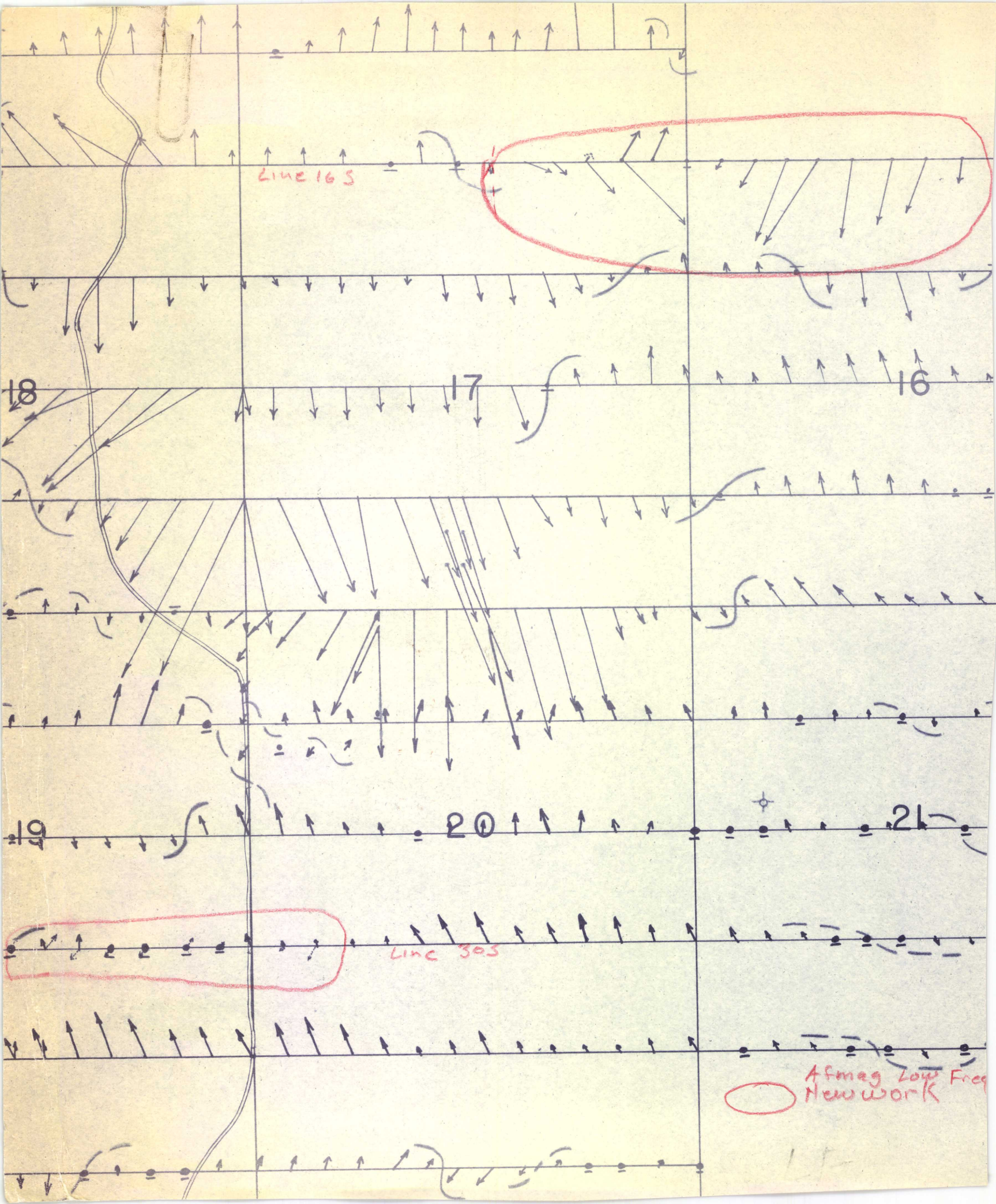
3. A. C. Gain Check	LEV # 1	LEV # 2
a. High Frequency Maximum	50+ ½ gain	50+ ½ gain
High Frequency Instrument Noise	0	0
b. Low Frequency Maximum	50+ ¾ gain	50+ ¾ gain
Low Frequency Instrument Noise	0	0

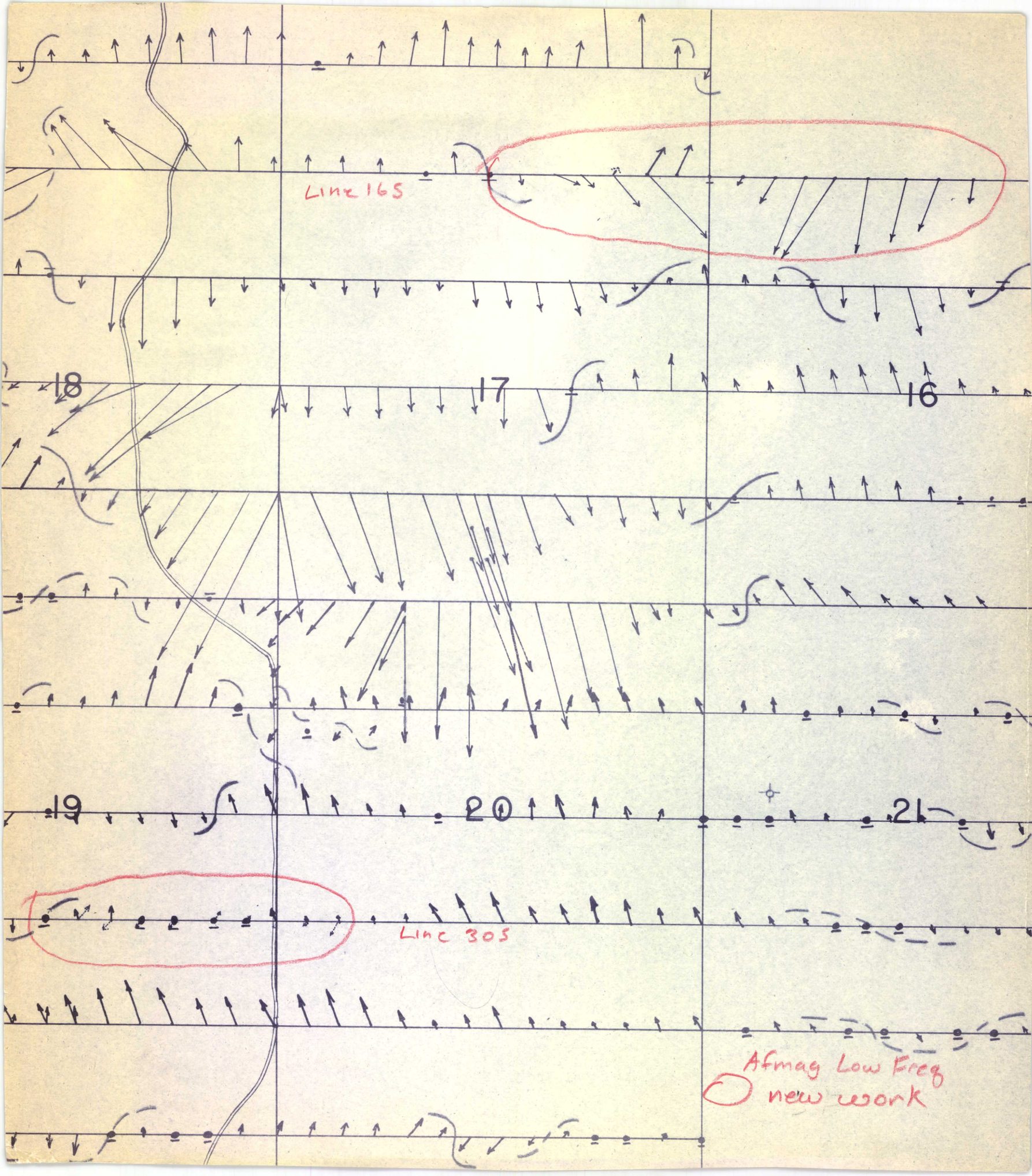
4. Signal to Noise Ratio

a. Instrument Noise_____

b. System Noise_____

Ratio:_____


Line 165
18
17
16
19
20
21
Line 305
Afmag Low Freq
New work


Line 165
18
17
16
19
20
21
Line 305
Afmag Low Freq
new work

November 18, 1959

Mr. John A. Wood
Chapman, Wood & Griswold
P. O. Box 8302
Albuquerque, New Mexico

Dear John:

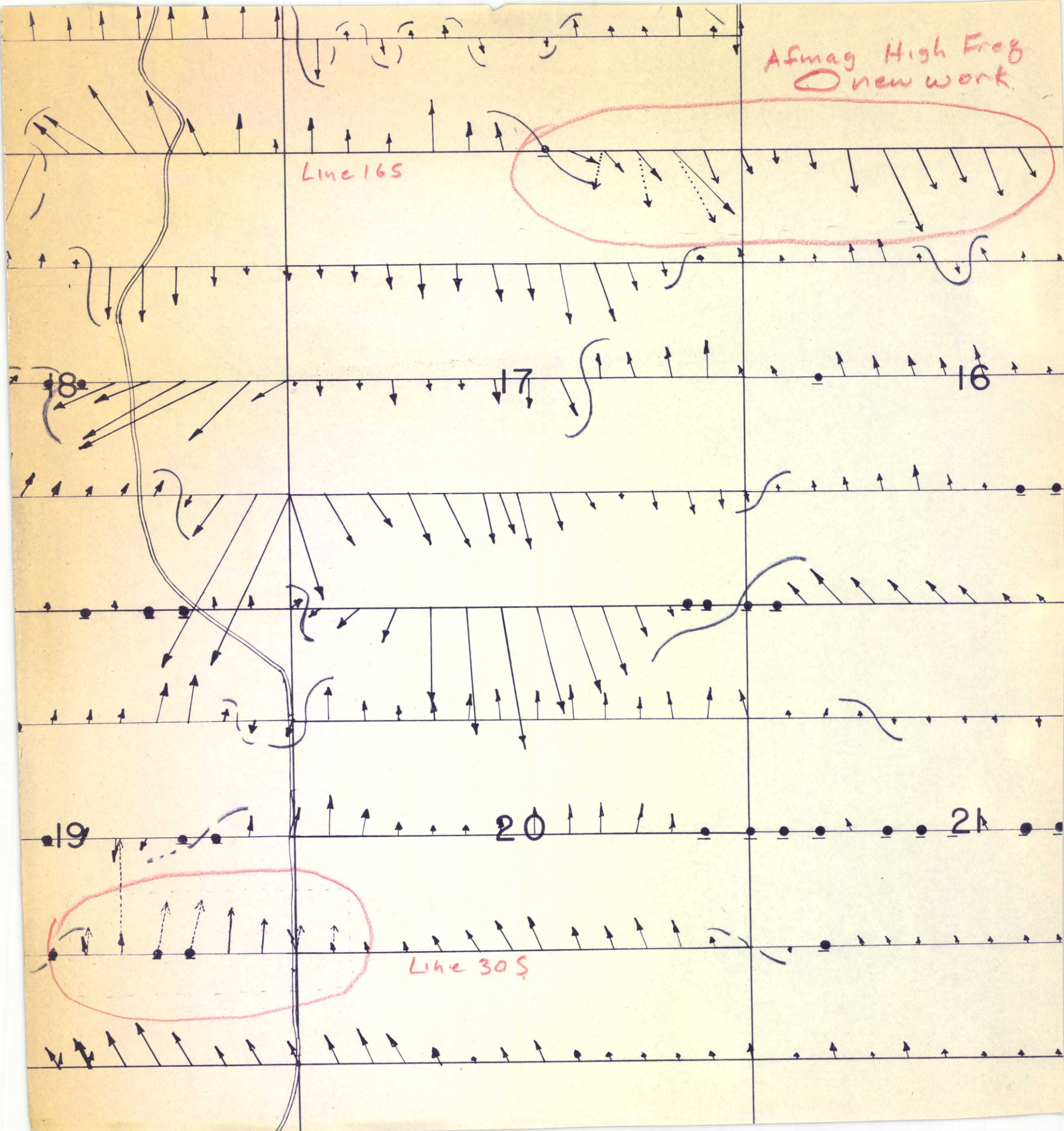
This is the basic cost data you requested. You or Hal may wish to add, delete or extract if submitted to the State. Vehicle costs will add proportionately to the State total about $400.00 more, and interpretation and compilation, etc., about another $400.00, estimated.

Sincerely,

Walter E. Heinrichs, Jr.

WEH:jh
Encl. (2)
cc: H. C. Warnock (cost memo only)

P. S. Also enclosed is memorandum regarding discussions with Stan Ward ih L. A.


Afmag High Freq
New work
Line 16S
18
17
16
19
20
21
Line 30S

November 18, 1959

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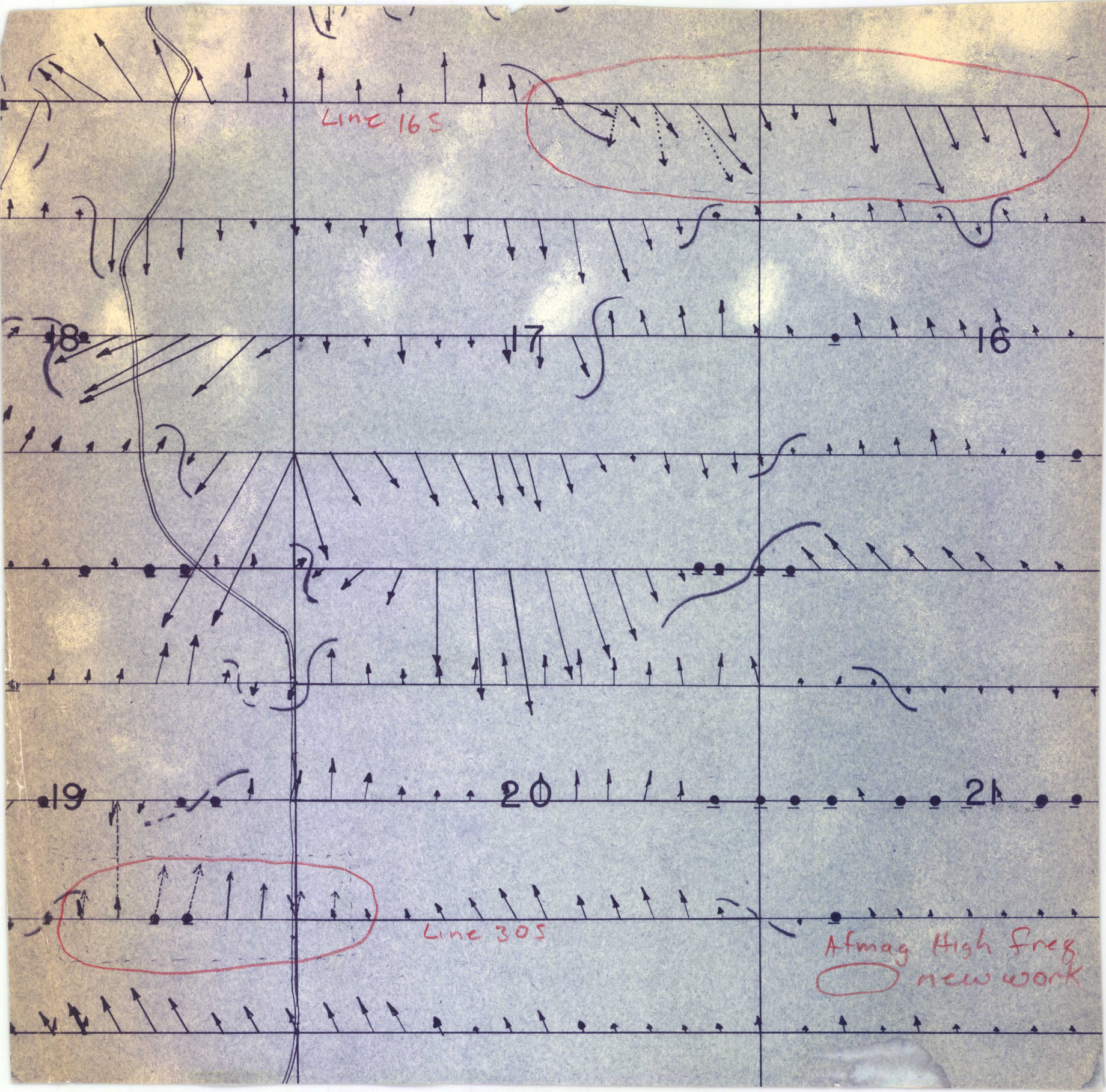
Line 16S
18
17
16
19
20
21
Line 30S
Afmag High freq
new work

T. 20 S.

R. 24 E. R. 25 E.

PROPERTY MAP
SOUTH GLEESON AREA
COCHISE COUNTY, ARIZONA
PROJECT P-I-A
SCALE: 8" = 1 Mile
CHAPMAN, WOOD & GRISWOLD DRAWING NO. 604
AUGUST 1959

State grazing lease
Federal land
Open to mineral entry
Fee land

Land Status

WEH

WEH
Land Map
P-1-A

HEINRICHS GEOEXPLORATION COMPANY
MINERAL ENGINEERING CONSULTANTS AND CONTRACTORS
GEOPHYSICAL, GEOLOGICAL AND ECONOMIC APPRAISALS
TUCSON, ARIZONA

WALTER E. HEINRICHS, JR.
E. GROVER HEINRICHS

PHONE: MAIN 2-4202
806-808 WEST GRANT ROAD
MAIL: P. O. BOX 5671

November 18, 1959

MEMORANDUM

Re: Conferences at S. E. G. in Los Angeles
November 9-12,1959

P-1-A AFMAG results
with S. H. Ward and Phil Hallof of McPhar.

On the afternoon of Monday, 9 November 1959 I went over the AFMAG data with Ward with the following comments resulting:

1. Very tough AFMAG area. Some local areas are adverse for unknown reasons.

2. Definite adverse local weather conditions influence quantitative effect unknown at present. Evidence extremely poor base station checks.

3. Random tilt pattern, "amusing, but confusing".

4. Reliable dip determinations very indefinite.

5. Now appears N-S lines might have been better than E-W and interpretation from N-S profiles should be included.

6. Preponderance of S tilts probably due to regional effects?

7. By far best cross-over at 6 1/2 E on 22S

8. Cannot explain or understand "anti directional" anomalism between 32S and 34S from 0 to 5W, where large arrows point away from each other.

9. General effect is probably due to block faulting in the "granite" (Gleeson quartz monzonite), and/or strong surface or near surface chemical conductivity (strong absorption or masking effect?)

10. A sketch of Stan's interpretation is attached herewith.

Following these committed expressions we went over the magnetic, S.P. and Geochem results with no change in the AFMAG conclusions. Tuesday evening, I was able to corner Ward and Hallof together. Hallof felt very strong as per #1 above and strongly confirmed convictions and convinced Stan as per #9 above although he had just heard about the data and had only seen the base station plots.

Afmag Base Station Readings

Project P-1-A
Afmag Survey
July - 1959

Hi-L ——— Base

10:40 A.M. 7/30/59
OK

10:50 A.M. 7/30/59
OK (180° of above)

6:10 A.M. 7/31/59
OK

10:55 A.M. 7/31/59
OK

8:25 A.M. 7/29/59
N.G.

3:30 PM "
N.G.

8:45AM 8/1/59

6:20 AM 8-5-59

2:10 PM "

Base
Line 28 N. Sta 30+00 E.

11:45 A.M. 7/31/59
OK

Unreadable: 2:05 P.M. "

N.G. 2:15 P.M. 7/27/59

N.G. 5:10 PM "

N.G. 9:00 A.M. 7/28/59

N.G. 1:00 P.M. "
(GAIN WAY DOWN)

OK? 9:25 A.M. 7/29/59. ——— 9:40 AM 7-29-59 (180° OF READING TO LEFT)

OK? 10:15 AM " ——— 10:30 AM 7-29-59 (180° OF READING TO LEFT.

OK? 1:50 PM "

OK 6:00 AM 8/1/59

N.G. 6:30 AM "
UNREADABLE

N.G. 7:15 AM "
UNREADABLE

N.G. 8:00 AM "

LINE 20 S? BASE

OK? 6:50-7:00 AM. 8/18/59

1:00 P.M. 8/17/59

7:15 A.M. 8/20/59

2:10 p.m. 8/20/59

Unreadable 8/31/59

" 9/1/59

6:15 A.M. 9/2/59

7:30 A.M. 9/3/59

7:45 A.M. 9/4/59

Unreadable 9/5/59

8:00 AM 9-30-59

↑ indicates 150 Cps.
↑ " 510 Cps.

SCALE:
10° = 1 inch

8:25 A.M. 9/9/59

8:00 A.M. 9/10/59

4:30 p.m. 9/22/59

3:00 p.m. 9/23/59

11:40 A.M. 9/24/59

8:00 A.M. 9/25/

9:45 A.M. 9/26/

2:30 PM - 10-2-59

8:35 AM 9-29-

K&E STANDARD ® CROSS SECTION
10×10 TO THE INCH

KEUFFEL & ESSER CO.
MADE IN U.S.A.

The question was then asked, "Could these type of results respond from over a relatively large disseminated sulfide mass?" Hallof felt they very well could, Ward was less definite.

If the method is as generally reported, my own conclusion now is that we have just not encountered any strong conductivity contrasts such as a large massive sulfide in a dry insulating host rock unless they are extremely deep (1500' +), and that the effects are from more discreet contrasts of a widely varying size, shape and nature, such as a combination of faults, fissures and contacts. Unfortunately, this still does not help too much to define or eliminate economic possibilities. My own hope is that, eventually, there may be enough encouragement to justify I.P. work.

Walter E. Heinrichs, Jr.

cc: J. Wood (2)

2 Oct 1959

Last Afrony dose.