HEINRICHS GEOEXPLORATION CO.

# I. P. SENDER NOTES

PROJECT 482 MINTA

LINE 1-A19 HALF NE SP. 1 DATE 1-8-12

PAGE 4

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 5-6 | 4-5 | 3-4 | 2-3 | 5-7 | 4-5 | 3-4 | | | |
| RECEIVE | 60-70 NS → | | | | 70-80 NS → | | | | | |
| RANGE | Low | Low | Low | Low | Low | | | | | |
| VOLTAGE | 600V | 360V | 280V | 400 | ~~280V~~ | | | | | |
| CURRENT | 2A | 3A | 3A | 4A | ~~2A~~ | | | | | |
| SEND | | | | | | | | | Cal | Cal |
| RECEIVE | | | | | | | | | 5-6 | 2-3 |
| RANGE | | | | | | | | | Low | Low |
| VOLTAGE | | | | | | | | | 600V | 240V |
| CURRENT | | | | | | | | | 2A | 2A |

FREQUENCIES 30 0.3

SENDER NO. MK4 23700-S

OPERATOR 67

RECEIVER NO. MKH-C 18691-R

OPERATOR 64

COMMENTS:

Baghad line inventory as of 3/23/70
all a = 1000' & 5 electrode D-D

| Line | Spreads | |
|---|---|---|
| 1 | 1 | |
| 2 | 1 | |
| 3 | 1 | |
| 4 | 1 | 1 & 2 were repeated |
| 5 | 1 & 2 | |
| 6 | 1 | |
| 7 | 1 | |
| 8 | 1 | |
| 9 | 1 | |
| 10 | 1 | |
| 11 | 1 | 13 Lines total |
| 12 | 1 & 2 | 15 spreads |
| 13 | 1 | |

2 spreads

(4) Line 9 on Wilder Point About N 45 E
Center near SW corner section 24

(5) Line 10 on Behm Mesa about N 45 E
center Tank in section 11

(6) Line 11 on Bozarth Mesa N10E to N30E
Center about on S/4 cor sect 32 but 500
feet east of new pipe Line construction

Line 12 on Contreras Mesa ~~East~~ N 70 E
(2) Center about on section Line between Sections 1+2
Keeping 500 feet from fences and pipes
Locate these carefully relative to electrodes

(1) Berry 4 N 1/2 only

(3) Line 13 Lazy Point E-W center on Road

(7) Line 14 Bozarth Cent about mid section 17

February 16, 1971

Cities Service Minerals Corp.
550 W. Ina Road
Tucson, Arizona 85704

Re: GEOEX Job 482 -
Air Mag Anomaly, Area 13.

Memo to Mr. W.W. Simmons

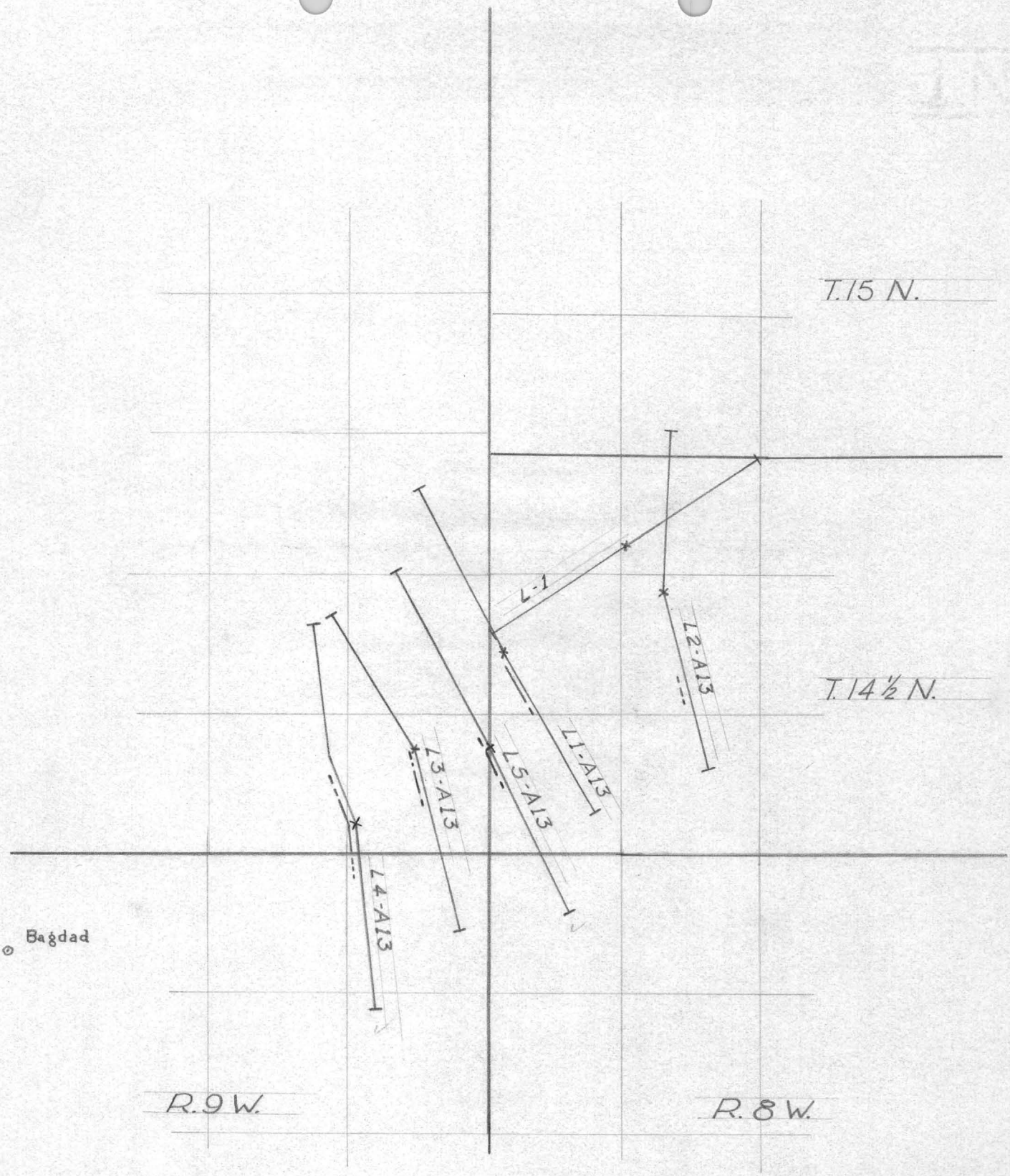
Six lines of reconnaissance I.P. in the immediate area of Nelson Mesa have revealed a weak but persistent anomaly. It is an elongate feature following Bridle Creek from Mesa Pass at least 2 miles to the north east, as indicated on the enclosed overlay map. The source of anomalism is thought to be sulphides at least 500 feet deep but probably less than 1500 feet in a zone perhaps as much as 2000 feet wide.

Our field crew obtained a suite of rocks and soil samples from the anomalous zone on Line 5. No obvious sulphide or oxides were noted which support the existence of a sulphide zone at surface. We therefore conclude that the source of anomalism is fairly deep and furthermore in a different type of rock than any noted at surface.

The crew chief reports that a Bagdad geologist stated the area being considered is "controlled by Bagdad". No obvious claims were noted.

It should be pointed out that anomaly strength decreases with increased depth for a given percentage of sulphides. While this is classed as a weak I.P. anomaly it may or may not be caused by significant quantities of sulphides at depth. To date we have insufficient data to compute a good depth and no basis to extrapolate anomaly strength to sulphides at the Bagdad pit.

Enclosures:




Overlay Bagdad Quad
1945
1" : 62500

JOB 482 LINE 1 SPREAD 1

LOOKING N 35 W DATE Jan 11, 1970 A= 1000 feet

CENTER 60.0 LABEL N/N FREQ. 1.0 - 0.1

COUPLING 4 CS

1-12-70
M.D.

9.0 sender note
in second half
2.0 cal

PAGE 1

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bagdad 482-70
LINE 1 HALF 555 SP. 1 DATE 1/7/70

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 4-5 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 |
| RECEIVE | 60-50 | 50 → | 40 | 40 | → | 30 | 30 | → | | 20 |
| RANGE | 10.0 | 10.0 | 10.0 | 10.0 | 1.0 | 1.0 | 10.0 | 1.0 | 1.0 | 1.0 |
| DC 1 .1 | 1.3 | 1.6 | 1.3 | 1.4 | 1.3 | 1.5 | 1.2 | 1.2 | 1.3 | 1.4 |
| DC 2 | | | | | | | | | | |
| DC 3 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| DC 4 | 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 |
| DC 5 | 1 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 1.0 | 329. | 330. | 105. | 347. | 85.3 | 57.3 | 367. | 75.8 | 29.2 | 24.4 |
| AC 2 1.0 | 0.0 | 0.0 | -0.1 | +0.2 | 0.0 | -0.1 | 0.0 | 0.0 | 0.0 | -0.1 |
| AC AVG. | | | | | | | | | | |
| S.P. | 1.2 | 9.4 | | 20.6 | | | -1.0 | | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bagdad 482-70
LINE 1 HALF 555W SP. 1 DATE 1-7-70

PAGE 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 | CAL 1 | CAL 2 |
| RECEIVE | 20 | → | → | 10 | 10 | → | → | 0.0 | 3-4 | 3-4 |
| RANGE | 1.0 | 1.0 | 0.1 | 0.1 | 1.0 | 0.1 | 0.1 | 0.1 | 10.0 | |
| DC 1 .1 | 1.2 | 1.3 | 1.3 | 1.7 | 1.4 | 1.4 | 1.8 | 2.0 | +.4 | |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 1.0 | 54.4 | 18.1 | 8.13 | 7.48 | 21.4 | 8.54 | 4.68 | 4.43 | 198. | |
| AC 2 1.0 | 0.1 | 0.0 | -0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| AC AVG. | | | | | | | | | | |
| S.P. | 19.1 | | | | 3.7 | | | | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

HEINRICHS GEOEXPLORATION CO.

# I. P. SENDER NOTES

PROJECT Bagdad 482-70

LINE 1 HALF S SP. 1 DATE 1-7-70



| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 4-5 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 |
| RECEIVE | 60-50 | 50 — | 40 | 40 — | — | 30 | 30 — | — | — | 20 |
| RANGE | HI — | — | — | — | — | — | — | — | — | → |
| VOLTAGE | 340 | 180 | 340 | 230 | 190 | 340 | 260 | 230 | 190 | 340 |
| CURRENT | 9.0A | 9.0A | 9.0A | 9.0A | 9.0A | 9.0A | 9.0A | 9.0A | 9.0A | 9.0A |
| SEND | 1-2 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 | ↓ | CAL |
| RECEIVE | 20 — | — | — | 10 | 10 — | — | — | 00 | | 3-4 |
| RANGE | HI — | — | — | — | — | — | — | → | | HI |
| VOLTAGE | 260 | 230 | 190 | 350 | 270 | 230 | 200 | 350 | | 40 |
| CURRENT | 9.0A | 9.0A | 9.0A | 9.0A | 9.0A | 9.0A | 9.0A | 9.0A | ✓ | 2.0A |

FREQUENCIES 1.0 .1

SENDER NO. MK4 6644-5

OPERATOR DJT

RECEIVER NO. 4C

OPERATOR J.M.P.

COMMENTS:

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bagdad 482-70 LINE 1 HALF ~~N55E~~ SP. 1 DATE 1-7-70

PAGE # 4

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 1-2 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 |
| RECEIVE | 60.5%0 | 70 → | 80 | 80 | — | 90 | 90 | — | — | 100 |
| RANGE | 10.0 | 10.0 | 10.0 | 10.0 | 1.0 | 1.0 | 10.0 | 1.0 | 1.0 | 1.0 |
| DC 1 | .2 | .4 | .3 | .7 | .7 | .6 | .9 | .9 | 1.0 | 1.0 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 | 325. | 325. | 105. | 291. | 87.5 | 44.4 | 370. | 69.7 | 33.3 | 22.9 |
| AC 2 | 0.0 | +.1 | 0.0 | 0.2 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| AC AVG. | | | | | | | | | | |
| S.P. | -1.4 | 20.8 | | 14.5 | | | 0.0 | | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bagdad 482-75
LINE 1 HALF N554 SP. 1 DATE 1-7-76

PAGE #5

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | CAL. | |
| RECEIVE | 100 | → | → | 110 | 110 | → | → | 120 | 2-3 | |
| RANGE | 10.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.1 | 0.1 | 0.1 | 10.0 | |
| DC 1 | .9 | 1.3 | 1.6 | 1.5 | 1.3 | 1.4 | 1.4 | 1.5 | -.4 | |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 | 15.0 | 34.7 | 19.6 | 13.7 | 28.5 | 8.19 | 5.37 | 4.13 | 196. | |
| AC 2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | |
| AC AVG. | | | | | | | | | | |
| S.P. | 10.6 | | | | 4.6 | | | | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

HEINRICHS GEOEXPLORATION CO.

# I. P. SENDER NOTES

PROJECT Bagdad 482-70

LINE 1 HALF N SP. 1 DATE 1-7-70

PAGE 6

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 1-2 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 |
| RECEIVE | 60-70 | 70 → | 80 | 80 → | | 90 | 90 → | | | 100 |
| RANGE | HI → | | | | | | | | | |
| VOLTAGE | 300 | 220 | 300 | 190 | 220 | 270 | 320 | 180 | 220 | 260 |
| CURRENT | 9.0A | 9.0A | 9.0A | 9.0A | 9.0A | 9.0A | 9.0A | 9.0A | 9.0A | 9.0A |
| SEND | 4-5 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | | CAL |
| RECEIVE | 100 → | | | 110 | 110 → | | | 120 | | 2-3 |
| RANGE | HI → | | | | | | | | | HI |
| VOLTAGE | 330 | 180 | 200 | 260 | 240 | 180 | 220 | 260 | | 40 |
| CURRENT | 9.0A | 9.0A | 9.0A | 9.0A | 9.0A | 9.0A | 9.0A | 9.0A | | 2.0A |

FREQUENCIES 1.0 : 1

SENDER NO. MK4 6644-S

OPERATOR D.J.T.

RECEIVER NO. 4C

OPERATOR J.M.P.

COMMENTS:

HEINRICHS GEOEX JOB 482-70 LINE 1 SPREAD 1 LOOKING N 35W 1-11-70 A= 1000 FEET

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | I | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 2.000 | |
| 13 | 16 | 13 | 14 | 13 | 15 | 12 | 12 | 13 | 14 | DC | 12 | 13 | 13 | 17 | 14 | 14 | 18 | 20 | 4 | LEFT |
| 13 | 16 | 13 | 14 | 13 | 15 | 12 | 12 | 13 | 14 | | 12 | 13 | 13 | 17 | 14 | 14 | 18 | 20 | 4 | SIDE |
| 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | N | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | | |
| 1.3 | 1.6 | 1.3 | 1.4 | 1.3 | 1.5 | 1.2 | 1.2 | 1.3 | 1.4 | PFEA | 1.2 | 1.3 | 1.3 | 1.7 | 1.4 | 1.4 | 1.8 | 2.0 | .4 | |
| 329.0 | 330.0 | 105.0 | 347.0 | 85.30 | 57.30 | 367.0 | 75.80 | 29.20 | 24.40 | AC1 | 54.40 | 18.10 | 8.130 | 7.480 | 21.40 | 8.540 | 4.680 | 4.430 | 198.0 | |
| 0.0 | 0.0 | -.1 | .2 | 0.0 | -.1 | 0.0 | 0.0 | 0.0 | -.1 | AC2 | .1 | 0.0 | -.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 329.0 | 330.0 | 104.9 | 347.3 | 85.30 | 57.27 | 367.0 | 75.80 | 29.20 | 24.39 | ACA | 54.43 | 18.10 | 8.126 | 7.480 | 21.40 | 8.540 | 4.680 | 4.430 | 198.0 | |
| 111.8 | 112.4 | 142.7 | 118.0 | 115.9 | 195.1 | 124.6 | 102.9 | 99.20 | 166.0 | RHO | 73.85 | 61.49 | 55.24 | 89.29 | 72.77 | 58.08 | 55.92 | 84.87 | 1.010 | DC CAL |
| .9 | 1.2 | .9 | .9 | .9 | 1.1 | .8 | .8 | .9 | 1.0 | PFE | .7 | .9 | .9 | 1.3 | 1.0 | 1.0 | 1.4 | 1.6 | -.400 | AC CAL |
| 8 | 11 | 7 | 8 | 8 | 6 | 6 | 8 | 9 | 6 | MCF | 10 | 15 | 17 | 15 | 14 | 17 | 25 | 19 | | |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | I | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 2.000 | |
| 2 | 4 | 3 | 7 | 7 | 6 | 9 | 9 | 10 | 10 | DC | 9 | 13 | 16 | 15 | 13 | 14 | 14 | 15 | -4 | RIGHT |
| 2 | 4 | 3 | 7 | 7 | 6 | 9 | 9 | 10 | 10 | | 9 | 13 | 16 | 15 | 13 | 14 | 14 | 15 | -4 | SIDE |
| 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | N | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | | |
| .2 | .4 | .3 | .7 | .7 | .6 | .9 | .9 | 1.0 | 1.0 | PFEA | .9 | 1.3 | 1.6 | 1.5 | 1.3 | 1.4 | 1.4 | 1.5 | -.4 | |
| 325.0 | 325.0 | 105.0 | 291.0 | 87.50 | 44.40 | 370.0 | 69.70 | 33.30 | 22.90 | AC1 | 15.00 | 34.70 | 19.60 | 13.70 | 28.50 | 8.190 | 5.370 | 4.130 | 196.0 | |
| 0.0 | .1 | 0.0 | .2 | 0.0 | 0.0 | .1 | 0.0 | 0.0 | 0.0 | AC2 | .2 | 0.0 | 0.0 | 0.0 | .1 | .1 | 0.0 | 0.0 | 0.0 | |
| 325.0 | 325.2 | 105.0 | 291.3 | 87.50 | 44.40 | 370.2 | 69.70 | 33.30 | 22.90 | ACA | 15.01 | 34.70 | 19.60 | 13.70 | 28.51 | 8.194 | 5.370 | 4.130 | 196.0 | |
| 111.2 | 111.4 | 143.9 | 100.1 | 120.4 | 152.5 | 127.5 | 96.06 | 114.9 | 158.0 | RHO | 20.67 | 120.0 | 136.0 | 166.2 | 98.59 | 56.72 | 65.08 | 80.16 | 1.020 | DC CAL |
| .6 | .7 | .7 | 1.0 | 1.1 | 1.0 | 1.2 | 1.3 | 1.4 | 1.4 | PFE | 1.2 | 1.7 | 2.0 | 1.9 | 1.6 | 1.7 | 1.8 | 1.9 | .400 | AC CAL |
| 5 | 7 | 5 | 10 | 9 | 7 | 10 | 14 | 12 | 9 | MCF | 58 | 14 | 15 | 11 | 17 | 31 | 28 | 24 | | |

BUSINESS FORMS PRINTING COMPANY ENGINEERED FOR HIGH SPEED PRINTERS

JOB 482 LINE 2 SPREAD 1

LOOKING W DATE Jan 8, 70 A= 1000 feet

CENTER 60.0 LABEL [redacted] N/N FREQ. 1.0 - 0.1

COUPLING yes

1-12-70
M.D.

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PAGE 1

PROJECT Bagdad 482-70
LINE 2 HALF S SP. 1 DATE 1-8-70

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 4-5 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 |
| RECEIVE | 60-50 | 50 → | 40 → | 40 | → | 30 | 30 | → | → | 20 |
| RANGE | 100. | 100. | 10. | 100. | 10. | 1.0 | 100. | 10. | 1.0 | .1 |
| DC 1 .1 | [illegible] | .8 | .8 | 1.1 | 1.2 | 1.1 | 1.4 | 1.8 | 1.6 | 1.4 |
| DC 2 | .3 | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 1.0 | 1020. | 1990. | 163. | 1750. | 213. | 23.0 | 1120. | 123. | 22.8 | 5.76 |
| AC 2 1.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AC AVG. | | | | | | | | | | |
| S.P. | 15.3 | 2.6 | | -9.4 | | | 19.2 | | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bagdad 482-70
LINE 2 HALF 5 SP. 1 DATE 1-8-70

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 | CAL | |
| RECEIVE | 20 | → | → | 10 | 10 | → | → | 0.0 | 3-4 | |
| RANGE | 1.0 | 1.0 | .1 | .1 | 1.0 | .1 | .1 | .1 | 10.0 | |
| DC 1 .1 | 2.0 | 1.6 | 1.8 | 1.6 | 1.8 | 1.8 | 2.0 | 2.4 | 0.0 | |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 1.0 | 16.4 | 15.6 | 5.98 | 2.78 | 14.8 | 4.80 | 2.79 | 1.57 | 195. | |
| AC 2 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | |
| AC AVG. | | | | | | | | | | |
| S.P. | 10.6 | | | | 35.9 | | | | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

HEINRICHS GEOEXPLORATION CO.

# I. P. SENDER NOTES

PROJECT Bagdad 482-70
LINE 2 HALF S SP. 1 DATE 1-8-70

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 4-5 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 |
| RECEIVE | 60-50 | 50 → | 40 | 40 → | | 30 | 30 → | | | 20 |
| RANGE | Hi → | | | | | | | | | → |
| VOLTAGE | 270 | 205 | 265 | 255 | 205 | 265 | 420 | 260 | 220 | 280 |
| CURRENT | 9.0A | 9.0A | 9.0A | 9.0A | 9.0A | 9.0A | 8.0A | 9.0A | 9.0A | 9.0A |
| SEND | 1-2 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 | | Cal |
| RECEIVE | 20 → | | | 10 | 10 → | | | 00 | | 3-4 |
| RANGE | Hi → | | | | | | | → | | Hi |
| VOLTAGE | 420 | 255 | 205 | 265 | 420 | 250 | 210 | 270 | | 45 |
| CURRENT | 8.0A | 9.0A | 9.0A | 9.0A | 8.0A | 9.0A | 9.0A | 9.0A | | 2.0A |

FREQUENCIES 1.0 .1
SENDER NO. MK4 6644-S
OPERATOR DJT
RECEIVER NO. 4C
OPERATOR J.M.P.

COMMENTS:

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bagdad 482-70
LINE 2 HALF N SP. 1 DATE 1/18/70

PAGE 4

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 1-2 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 |
| RECEIVE | 60-70 | 70 → | 80 | 80 | → | 90 | 90 | → | → | 100 |
| RANGE | 100. | 10. | 10. | 10. | 1.0 | 1.0 | 10. | 10. | 1.0 | .1 |
| DC 1 .1 | .6 | .5 | .7 | .5 | .6 | .9 | .7 | .8 | .8 | 1.6 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 1.0 | 1320. | 670. | 109. | 986. | 77.8 | 15.1 | 761. | 165. | 15.5 | 4.21 |
| AC 2 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 |
| AC AVG. | | | | | | | | | | |
| S.P. | +8.1 | 25.5 | | -2.1 | | | +5.5 | | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bagdad 482-70 PAGE 5
LINE 2 HALF N SP. 1 DATE 1-8-70

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | CAL | |
| RECEIVE | 100 | → | → | 110 | 110 | → | → | 120 | 2-3 | |
| RANGE | 1.0 | 1.0 | .1 | .01 | .1 | .1 | .1 | .01 | 10.0 | |
| DC 1 | .6 | 1.0 | .8 | .5 | 1.2 | 1.5 | ~~1.4~~ | 2.6 | 0.1 | |
| DC 2 | | | | | | | 0.1 | 0.0 | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | 7.54 | | | | | |
| AC 1 | 54.8 | 14.0 | 1.81 | .954 | 75.4 | 2.98 | 1.09 | .865 | 196. | |
| AC 2 | -.2 | 0.0 | 0.0 | -.2 | 0.0 | 0.0 | | | 0.2 | |
| AC AVG. | | | | | | | | | | |
| S.P. | 24.6 | | | | 22.7 | | | | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

HEINRICHS GEOEX JOB 482-70 LINE 2 SPREAD 1 LOOKING W 1-8-70 A= 1000 FEET 1.0 0.1 hz

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 8.000 | 9.000 | 9.000 | 9.000 | I | 8.000 | 9.000 | 9.000 | 9.000 | 8.000 | 9.000 | 9.000 | 9.000 | 2.000 | | |
| 3 | 8 | 8 | 11 | 12 | 11 | 14 | 18 | 16 | 14 | DC | 20 | 16 | 18 | 16 | 18 | 18 | 20 | 24 | 0 | LEFT | |
| 3 | 8 | 8 | 11 | 12 | 11 | 14 | 18 | 16 | 14 | | 20 | 16 | 18 | 16 | 18 | 18 | 20 | 24 | 0 | SIDE | |
| 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | N | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | | | |
| .3 | .8 | .8 | 1.1 | 1.2 | 1.1 | 1.4 | 1.8 | 1.6 | 1.4 | PFEA | 2.0 | 1.6 | 1.8 | 1.6 | 1.8 | 1.8 | 2.0 | 2.4 | 0.0 | | |
| 1020.0 | 1990.0 | 163.0 | 1750.0 | 213.0 | 23.00 | 1120.0 | 123.0 | 22.80 | 5.760 | AC1 | 76.40 | 15.60 | 5.980 | 2.780 | 14.80 | 4.800 | 2.790 | 1.570 | 195.0 | | |
| 0.0 | 0.0 | 0.0 | .1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | AC2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | .2 | | |
| 1020.0 | 1990.0 | 163.0 | 1750.9 | 213.0 | 23.00 | 1120.0 | 123.0 | 22.80 | 5.760 | ACA | 76.40 | 15.60 | 5.980 | 2.780 | 14.80 | 4.800 | 2.790 | 1.570 | 195.2 | | |
| 349.8 | 685.8 | 224.7 | 604.9 | 294.8 | 79.50 | 436.8 | 171.2 | 79.19 | 39.94 | RHO | 119.9 | 54.19 | 41.62 | 33.80 | 57.95 | 33.41 | 34.05 | 30.78 | 1.025 | DC CAL | |
| .4 | .9 | .9 | 1.1 | 1.3 | 1.2 | 1.5 | 1.9 | 1.7 | 1.5 | PFE | 2.1 | 1.7 | 1.9 | 1.7 | 1.9 | 1.9 | 2.1 | 2.5 | .100 | AC CAL | |
| 1 | 1 | 4 | 2 | 4 | 15 | 3 | 11 | 21 | 38 | MCF | 18 | 31 | 46 | 50 | 33 | 57 | 62 | 81 | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | .2 | 0.0 | 0.0 | .2 | .9 | CPFE | .0 | .3 | .9 | 1.9 | .3 | 1.2 | 1.9 | 3.2 | | | |
| .4 | .9 | .9 | 1.1 | 1.3 | 1.0 | 1.5 | 1.9 | 1.5 | .6 | CCPFE | 2.1 | 1.4 | 1.0 | -.2 | 1.6 | .7 | .2 | -.7 | | | |
| 1 | 1 | 4 | 2 | 4 | 13 | 3 | 11 | 19 | 14 | CCMCF | 17 | 25 | 25 | -5 | 28 | 22 | 7 | -21 | | | |

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | I | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 2.000 | | |
| 6 | 5 | 7 | 5 | 6 | 9 | 7 | 8 | 8 | 16 | DC | 6 | 10 | 8 | 5 | 12 | 15 | 1 | 0 | 1 | RIGHT | |
| 6 | 5 | 7 | 5 | 6 | 9 | 7 | 8 | 8 | 16 | | 6 | 10 | 8 | 5 | 12 | 15 | 1 | 0 | 1 | SIDE | |
| 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | N | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | | | |
| .6 | .5 | .7 | .5 | .6 | .9 | .7 | .8 | .8 | 1.6 | PFEA | .6 | 1.0 | .8 | .5 | 1.2 | 1.5 | .1 | 0.0 | .1 | | |
| 1320.0 | 670.0 | 109.0 | 986.0 | 77.80 | 15.10 | 761.0 | 165.0 | 15.50 | 4.210 | AC1 | 54.80 | 14.00 | 1.810 | .954 | 7.540 | 2.980 | 1.090 | .865 | 196.0 | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | .2 | 0.0 | 0.0 | 0.0 | AC2 | .2 | 0.0 | 0.0 | -.2 | 0.0 | 0.0 | 0.0 | 0.0 | .2 | | |
| 1320.0 | 670.0 | 109.0 | 986.0 | 77.80 | 15.10 | 761.8 | 165.0 | 15.50 | 4.210 | ACA | 54.85 | 14.00 | 1.810 | .953 | 7.540 | 2.980 | 1.090 | .865 | 196.2 | | |
| 451.2 | 228.8 | 149.2 | 336.7 | 106.4 | 51.77 | 260.4 | 226.1 | 53.09 | 29.07 | RHO | 74.93 | 48.05 | 12.40 | 11.40 | 25.93 | 20.56 | 12.98 | 16.46 | 1.019 | DC CAL | |
| 677 | 344 | 224 | 505 | 160 | 77.6 | 391 | 339 | 79.6 | 43.6 | | 112 | 72.1 | 18.6 | 17.1 | 38.9 | 30.8 | 19.5 | 24.7 | | | |
| .6 | .5 | .7 | .5 | .6 | .9 | .6 | .8 | .8 | 1.6 | PFE | .5 | 1.0 | .8 | .6 | 1.2 | 1.5 | .1 | .0 | .000 | AC CAL | |
| 1 | 2 | 5 | 1 | 6 | 17 | 2 | 4 | 15 | 55 | MCF | 7 | 21 | 65 | 53 | 46 | 73 | 8 | 0 | | | |
| 0.0 | 0.0 | .0 | 0.0 | .1 | .3 | 0.0 | 0.0 | .3 | 1.4 | CPFE | .1 | .4 | 4.2 | 7.3 | .9 | 2.2 | 6.3 | 6.9 | | | |
| .6 | .5 | .7 | .5 | .5 | .6 | .6 | .8 | .5 | .2 | CCPFE | .4 | .6 | -3.4 | -6.7 | .3 | -.7 | -6.2 | -6.9 | | | |
| 1 | 2 | 4 | 1 | 5 | 11 | 2 | 4 | 9 | 7 | CCMCF | 6 | 13 | -271 | -589 | 12 | -34 | -474 | -417 | | | |

BUSINESS FORMS PRINTING COMPANY ENGINEERED FOR HIGH SPEED PRINTERS

JOB 482 LINE 3 SPREAD 1

LOOKING North DATE Jan 9, 1970 A= 1000 feet

CENTER 60.0 LABEL E/E FREQ. 1.0 - 0.1

COUPLING yes

1-21-70

MD

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 482-70
LINE 3 HALF W SP. 1 DATE 1/13

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 4-5 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 |
| RECEIVE | 60-50E | 50-40E | | 40-30E → | | | 30-20E → | | | |
| RANGE | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 1.0 | 10.0 | 1.0 | 1.0 | 1.0 |
| DC 1.1 | 5.1 | 1.7 | 1.7 | .7 | 1.4 | 1.3 | -.3 | -1.5 | -1.5 | -2.1 |
| DC 2 | | | | | | | | | | |
| DC 3 | FENCE WITH METAL POSTS | | | | | | | | | |
| DC 4 | 25 FT EAST OF #3 FLT. | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 1.0 | 474. | 451. | 107. | 614. | 109. | 43.4 | 428. | 91.0 | 28.8 | 15.3 |
| AC 2 1.0 | 0.0 | 0.0 | 0.0 | 0.1 | -.2 | 0.0 | 0.0 | 0.0 | -.1 | -.1 |
| AC AVG. | | | | | | | | | | |
| S.P. | 9.7 | 2.3 | → | -4.8 | → | | -02.9 | → | | → |
| AC NOISE | | | | | | | - | | | |
| POT RES. | | | | | | | | | | |

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bagdad 482-70
LINE 3 HALF W SP. 1 DATE 1/13

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 | Cal-2 | cal |
| RECEIVE | 20-10 E | | → | | 10E-0EW | | → | | | |
| RANGE | 1.0 | .1 | .01 | | 1.0 | 1.0 | 0.1 | 0.1 | 10 | 10 |
| DC 1 1.0 | ~~64.0~~ | ~~78.0~~ | | | 2.1 | 2.1 | 2.9 | 2.8 | 0.0 | .2 |
| DC 2 | 26.0 | 56.0 | | | | | | | | |
| DC 3 | PIPE LINE | | IS | 50 ft | | | | | | |
| DC 4 | EAST OF | | 20.0 | ft. | | | | | | |
| DC 5 | | | | | | | | | | USE |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 1.0 | 21.7 | 4.42 | 501 | | 24.4 | 11.2 | 5.03 | 3.27 | 202 | 197 |
| AC 2 1.0 | 0.0 | .1 | | | .1 | .1 | -.2 | -.2 | 0.0 | 0.0 |
| AC AVG. | | | | | | | | | | |
| S.P. | ~~8.7~~ | | | | +4.1 | | | | | |
| AC NOISE | 6.9 | | | | | | | | | |
| POT RES. | | | | | | | | | | |

HEINRICHS GEOEXPLORATION CO.

# I.P. RECEIVER NOTES

PROJECT Bagdad 482-70

LINE 3 HALF W SP. 1 DATE 1/14

PAGE

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 3-4 | 4-5 | | | 4-5 | 3-4 | 2-3 | 1-2 |
| RECEIVE | 20 → | | | → 10 | | | 30 → | | | → 20 |
| RANGE | 1.0 | 0.1 | .01 | | | | 1.0 | 1.0 | 1.0 | 10.0 |
| DC 1 .1 | 24.0 | 42.0 | | | | | -1.2 | -.8 | -1.1 | -.3 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 1.0 | 23.1 | 4.84 | .63 | | | | 15.2 | 28.7 | 90.5 | 422.0 |
| AC 2 1.0 | -.2 | ~~+~~.2 | | | | | 0.0 | 0.0 | 0.0 | -.2 |
| AC AVG. | | | | | | | | | | |
| S.P. | +8.6 | | | | | | -7.6 | → | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

NO USE

REPEAT ON STATIONS

20.0 FT & 30.0 FT

HEINRICHS GEOEXPLORATION CO.

# I. P. SENDER NOTES

PAGE

PROJECT BAGDAD 482-70

LINE 3 HALF ~~SW~~ SP. 1 DATE 1/13

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 4-5 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 |
| RECEIVE | 60 | 50 | 50 | 40 | — | 40 | 30 | — | — | 30 |
| RANGE | HIGH | HIGH | " | " | " | " | " | " | " | HIGH |
| VOLTAGE | 380 | 220 | 360 | 180 | 220 | 360 | 340 | 180 | 220 | 360 |
| CURRENT | 9.0A | 9.0A | " | 9.0A | " | " | " | " | " | 9.0A |
| SEND | 1-2 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 | CAL | |
| RECEIVE | 20 | — | — | 20 | 10 | — | — | 10 | 3-4 | |
| RANGE | HIGH | " | " | " | " | " | " | HIGH | HIGH | |
| VOLTAGE | 340 | 180 | 220 | 360 | 340 | 180 | 220 | 360 | 80 | |
| CURRENT | 9.0A | " | " | " | " | " | " | 9.0A | 2.0A | |

FREQUENCIES _____ _____

SENDER NO.

OPERATOR

RECEIVER NO.

OPERATOR

COMMENTS:

1/13/70

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bagdad 482-70
LINE 3 HALF E SP. 1 DATE 1-9-70

PAGE 1

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 1-2 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 |
| RECEIVE | 60-70 | 70 — | — 80 | 80 — | — | — 90 | 90 — | — | — | — 100 |
| RANGE | 10.0 | 10.0 | 10.0 | 10.0 | 1.0 | 1.0 | 10.0 | 1.0 | 1.0 | 1.0 |
| DC 1 .1 | 4.9 | 1.3 | 1.6 | .9 | .7 | .7 | 1.1 | 1.7 | .9 | 1.5 |
| DC 2 | | | | | | | | | | |
| DC 3 | FENCE WITH METAL POSTS. | | | | | | | | | |
| DC 4 | 25ST EAST of STATION 3 | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 1.0 | 470. | 458. | 107. | 416. | 67.7 | 23.6 | 143. | 50.7 | 26.1 | 12.4 |
| AC 2 1.0 | 0.0 | -.4 | -.1 | 0.0 | 0.0 | -.1 | 0.0 | 0.0 | 0.0 | -.1 |
| AC AVG. | | | | | | | | | | |
| S.P. | -01.4 | +7.4 | * | 19.9 | — | — | +4.8 | — | — | — |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bagdad 482-70
LINE 3 HALF E SP. 1 DATE 1-9-70

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | | CAL |
| RECEIVE | 100 | | | 110 | 110 | | | 120 | | 2-3 |
| RANGE | 1.0 | 1.0 | 1.0 | 0.1 | 1.0 | 1.0 | 0.1 | 0.1 | | 10 |
| DC 1 .1 | -.4 | +.4 | -.3 | +.3 | +1.1 | +2.0 | +.9 | 1.7 | | .2 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 1.0 | 47.7 | 23.0 | 14.4 | 7.76 | 19.7 | 11.0 | 7.91 | 4.79 | | 199 |
| AC 2 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | +.3 | 0.0 | | .1 |
| AC AVG. | | | | | | | | | | |
| S.P. | -2.5 | → | → | → | +2.7 | → | → | → | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

HEINRICHS GEOEXPLORATION CO.

# I. P. SENDER NOTES

PROJECT Bagdad 482-70
LINE 3 HALF E SP. 1 DATE 1/13/70

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 1-2 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 |
| RECEIVE | 60. 70 | 70 → | 80 | 80 | → | 90 | 90 | → | → | 100 |
| RANGE | 30x300 | 30x300 | 30x300 | 30x300 | 30x300 | 30x300 | 30x300 | 30x300 | 30x300 | 30x300 |
| VOLTAGE | 340 | 175 | 340 | 225 | 175 | 340 | 370 | 225 | 190 | 340 |
| CURRENT | 9A | 9A | 9A | 9A | 9A | 9A | 9A | 9A | 9A | 9A |
| SEND | 4-5 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | CAL. | |
| RECEIVE | 100 | → | → | 110 | 110 | → | → | 120 | 2-3 | |
| RANGE | 30x300 | 30x300 | 30x300 | 30x300 | 30x300 | 30x300 | 30x300 | 30x300 | 10x200 | |
| VOLTAGE | 360 | 225 | 185 | 340 | 360 | 230 | 190 | 340 | 40 | |
| CURRENT | 9A | 9A | 9A | 9A | 9A | 9A | 9A | 9A | 2A | |

FREQUENCIES 1.0 0.1
SENDER NO. 6644-5
OPERATOR DC
RECEIVER NO. New 4-C
OPERATOR DT

COMMENTS:

1.0 - 0.1/2

HEINRICHS GEOEX JOB 482-69 LINE 3 SPREAD 1 LOOKING NORTH 1-9-70 A= 1000 FEET

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | I | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 2.000 | |
| 49 | 13 | 16 | 9 | 7 | 7 | 11 | 17 | 9 | 15 | DC | -4 | 4 | -3 | 3 | 11 | 20 | 9 | 17 | 2 | LEFT |
| 49 | 13 | 16 | 9 | 7 | 7 | 11 | 17 | 9 | 15 | | -4 | 4 | -3 | 3 | 11 | 20 | 9 | 17 | 2 | SIDE |
| 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | N | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | | |
| 4.9 | 1.3 | 1.6 | .9 | .7 | .7 | 1.1 | 1.7 | .9 | 1.5 | PFEA | -.4 | .4 | -.3 | .3 | 1.1 | 2.0 | .9 | 1.7 | .2 | |
| 470.0 | 458.0 | 107.0 | 416.0 | 67.70 | 23.60 | 143.0 | 50.70 | 26.10 | 12.40 | AC1 | 47.70 | 23.00 | 14.40 | 7.760 | 19.70 | 11.00 | 7.900 | 4.790 | 199.0 | |
| 0.0 | -.4 | -.1 | 0.0 | 0.0 | -.1 | 0.0 | 0.0 | 0.0 | -.1 | AC2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | .3 | 0.0 | .1 | |
| 470.0 | 457.1 | 106.9 | 416.0 | 67.70 | 23.59 | 143.0 | 50.70 | 26.10 | 12.39 | ACA | 47.70 | 23.00 | 14.40 | 7.760 | 19.70 | 11.00 | 7.912 | 4.790 | 199.1 | |
| 164.9 | 155.1 | 145.4 | 140.3 | 91.17 | 79.46 | 48.34 | 68.96 | 88.05 | 84.16 | RHO | 63.54 | 77.21 | 96.00 | 91.08 | 66.59 | 75.03 | 93.28 | 91.21 | 1.005 | DC CAL |
| 4.7 | 1.3 | 1.5 | .8 | .6 | .6 | .9 | 1.5 | .8 | 1.4 | PFE | -.5 | .3 | -.4 | .2 | .9 | 1.8 | .6 | 1.5 | -.150 | AC CAL |
| 29 | 9 | 10 | 5 | 6 | 8 | 20 | 22 | 9 | 17 | MCF | -9 | 3 | -5 | 2 | 14 | 25 | 6 | 17 | | |
| 0.0 | 0.0 | .0 | 0.0 | .1 | .2 | .0 | .1 | .2 | .3 | CPFE | .1 | .2 | .3 | .5 | .2 | .4 | .5 | .8 | | |
| 4.7 | 1.3 | 1.5 | .8 | .5 | .4 | .9 | 1.5 | .6 | 1.1 | CCPFE | -.7 | .1 | -.7 | -.4 | .7 | 1.5 | .1 | .8 | | |
| 29 | 9 | 10 | 5 | 5 | 5 | 19 | 21 | 7 | 13 | CCMCF | -10 | 1 | -8 | -4 | 11 | 19 | 1 | 9 | | |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | I | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 2.000 | |
| 51 | 17 | 17 | 7 | 14 | 13 | -3 | -15 | -15 | -21 | DC | 260 | 560 | | | 21 | 21 | 29 | 28 | 2 | RIGHT |
| 51 | 17 | 17 | 7 | 14 | 13 | -3 | -15 | -15 | -21 | | 260 | 560 | | | 21 | 21 | 29 | 28 | 2 | SIDE |
| 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | N | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | | |
| 5.1 | 1.7 | 1.7 | .7 | 1.4 | 1.3 | -.3 | -1.5 | -1.5 | -2.1 | PFEA | 26.0 | 56.0 | 0.0 | 0.0 | 2.1 | 2.1 | 2.9 | 2.8 | .2 | |
| 474.0 | 451.0 | 107.0 | 614.0 | 109.0 | 43.40 | 428.0 | 91.00 | 28.80 | 15.30 | AC1 | 21.70 | 4.420 | 0.000 | 0.000 | 24.40 | 11.20 | 5.030 | 3.270 | 197.0 | |
| 0.0 | 0.0 | 0.0 | .1 | -.2 | 0.0 | 0.0 | 0.0 | -.1 | -.1 | AC2 | 0.0 | .1 | 0.0 | 0.0 | .1 | .1 | -.2 | -.2 | 0.0 | |
| 474.0 | 451.0 | 107.0 | 614.3 | 108.9 | 43.40 | 428.0 | 91.00 | 28.79 | 15.29 | ACA | 21.70 | 4.422 | 0.000 | 0.000 | 24.41 | 11.21 | 5.025 | 3.267 | 197.0 | |
| 168.3 | 154.9 | 147.0 | 208.8 | 149.3 | 148.5 | 144.1 | 121.1 | 95.81 | 101.2 | RHO | 36.95 | 23.31 | *000.0 | *000.0 | 84.14 | 77.24 | 61.18 | 63.58 | 1.015 | DC CAL |
| 4.9 | 1.5 | 1.5 | .4 | 1.3 | 1.1 | -.5 | -1.7 | -1.6 | -2.2 | PFE | 25.8 | 55.7 | *000.0 | *000.0 | 1.8 | 1.8 | 2.8 | 2.7 | -.200 | AC CAL |
| 29 | 10 | 10 | 2 | 9 | 7 | -3 | -14 | -17 | -22 | MCF | 698 | 2392 | *0000. | *0000. | 22 | 24 | 46 | 42 | | |
| 0.0 | 0.0 | .0 | 0.0 | .0 | .1 | 0.0 | .0 | .1 | .3 | CPFE | .2 | 1.0 | 0.0 | 0.0 | .2 | .4 | .9 | 1.2 | | |
| 4.9 | 1.5 | 1.5 | .4 | 1.3 | 1.0 | -.5 | -1.7 | -1.8 | -2.5 | CCPFE | 25.6 | 54.7 | *000.0 | *000.0 | 1.7 | 1.5 | 1.9 | 1.5 | | |
| 29 | 10 | 10 | 2 | 8 | 7 | -3 | -14 | -19 | -25 | CCMCF | 692 | 2348 | *0000. | *0000. | 20 | 19 | 32 | 23 | | |

ENGINEERED FOR HIGH SPEED PRINTERS
BUSINESS FORMS PRINTING COMPANY BLUE SPACE BAR

HEINRICHS GEOEX JOB 482-69 LINE 3 SPREAD 1 LOOKING NORTH 1-9-70 A= 1000 FEET

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | I | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 2.000 | |
| 51 | 17 | 17 | 7 | 14 | 13 | -3 | -15 | -15 | -21 | DC | 260 | 560 | | | 21 | 21 | 29 | 28 | 2 | LEFT |
| 51 | 17 | 17 | 7 | 14 | 13 | -3 | -15 | -15 | -21 | | 260 | 560 | | | 21 | 21 | 29 | 28 | 2 | SIDE |
| 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | N | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | | |
| 5.1 | 1.7 | 1.7 | .7 | 1.4 | 1.3 | -.3 | -1.5 | -1.5 | -2.1 | PFEA | 26.0 | 56.0 | 0.0 | 0.0 | 2.1 | 2.1 | 2.9 | 2.8 | .2 | |
| 474.0 | 451.0 | 107.0 | 614.0 | 109.0 | 43.40 | 428.0 | 91.00 | 28.80 | 15.30 | AC1 | 21.70 | 4.420 | 0.000 | 0.000 | 24.40 | 11.20 | 5.030 | 3.270 | 197.0 | |
| 0.0 | 0.0 | 0.0 | .1 | -.2 | 0.0 | 0.0 | 0.0 | -.1 | -.1 | AC2 | 0.0 | .1 | 0.0 | 0.0 | .1 | .1 | -.2 | -.2 | 0.0 | |
| 474.0 | 451.0 | 107.0 | 614.3 | 108.9 | 43.40 | 428.0 | 91.00 | 28.79 | 15.29 | ACA | 21.70 | 4.422 | 0.000 | 0.000 | 24.41 | 11.21 | 5.025 | 3.267 | 197.0 | |
| 168.3 | 154.9 | 147.0 | 208.8 | 149.3 | 148.5 | 144.1 | 121.1 | 95.81 | 101.2 | RHO | 36.95 | 23.31 | *000.0 | *000.0 | 84.14 | 77.24 | 61.18 | 63.58 | 1.015 | DC CAL |
| 4.9 | 1.5 | 1.5 | .4 | 1.3 | 1.1 | -.5 | -1.7 | -1.6 | -2.2 | PFE | 25.8 | 55.7 | *000.0 | *000.0 | 1.8 | 1.8 | 2.8 | 2.7 | -.200 | AC CAL |
| 29 | 10 | 10 | 2 | 9 | 7 | -3 | -14 | -17 | -22 | MCF | 698 | 2392 | *0000. | *0000. | 22 | 24 | 46 | 42 | | |
| 0.0 | 0.0 | .0 | 0.0 | .0 | .1 | 0.0 | .0 | .1 | .3 | CPFE | .2 | 1.0 | 0.0 | 0.0 | .2 | .4 | .9 | 1.2 | | |
| 4.9 | 1.5 | 1.5 | .4 | 1.3 | 1.0 | -.5 | -1.7 | -1.8 | -2.5 | CCPFE | 25.6 | 54.7 | *000.0 | *000.0 | 1.7 | 1.5 | 1.9 | 1.5 | | |
| 29 | 10 | 10 | 2 | 8 | 7 | -3 | -14 | -19 | -25 | CCMCF | 692 | 2348 | *0000. | *0000. | 20 | 19 | 32 | 23 | | |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | I | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 2.000 | |
| 49 | 13 | 16 | 9 | 7 | 7 | 11 | 17 | 9 | 15 | DC | -4 | 4 | -3 | 3 | 11 | 20 | 9 | 17 | 2 | RIGHT |
| 49 | 13 | 16 | 9 | 7 | 7 | 11 | 17 | 9 | 15 | | -4 | 4 | -3 | 3 | 11 | 20 | 9 | 17 | 2 | SIDE |
| 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | N | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | | |
| 4.9 | 1.3 | 1.6 | .9 | .7 | .7 | 1.1 | 1.7 | .9 | 1.5 | PFEA | -.4 | .4 | -.3 | .3 | 1.1 | 2.0 | .9 | 1.7 | .2 | |
| 470.0 | 458.0 | 107.0 | 416.0 | 67.70 | 23.60 | 143.0 | 50.70 | 26.10 | 12.40 | AC1 | 47.70 | 23.00 | 14.40 | 7.760 | 19.70 | 11.00 | 7.900 | 4.790 | 199.0 | |
| 0.0 | -.4 | -.1 | 0.0 | 0.0 | -.1 | 0.0 | 0.0 | 0.0 | -.1 | AC2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | .3 | 0.0 | .1 | |
| 470.0 | 457.1 | 106.9 | 416.0 | 67.70 | 23.59 | 143.0 | 50.70 | 26.10 | 12.39 | ACA | 47.70 | 23.00 | 14.40 | 7.760 | 19.70 | 11.00 | 7.912 | 4.790 | 199.1 | |
| 164.9 | 155.1 | 145.4 | 140.3 | 91.17 | 79.46 | 48.34 | 68.96 | 88.05 | 84.16 | RHO | 63.54 | 77.21 | 96.00 | 91.08 | 66.59 | 75.03 | 93.28 | 91.21 | 1.005 | DC CAL |
| 4.7 | 1.3 | 1.5 | .8 | .6 | .6 | .9 | 1.5 | .8 | 1.4 | PFE | -.5 | .3 | -.4 | .2 | .9 | 1.8 | .6 | 1.5 | -.150 | AC CAL |
| 29 | 9 | 10 | 5 | 6 | 8 | 20 | 22 | 9 | 17 | MCF | -9 | 3 | -5 | 2 | 14 | 25 | 6 | 17 | | |
| 0.0 | 0.0 | .0 | 0.0 | .1 | .2 | .0 | .1 | .2 | .3 | CPFE | .1 | .2 | .3 | .5 | .2 | .4 | .5 | .8 | | |
| 4.7 | 1.3 | 1.5 | .8 | .5 | .4 | .9 | 1.5 | .6 | 1.1 | CCPFE | -.7 | .1 | -.7 | -.4 | .7 | 1.5 | .1 | .8 | | |
| 29 | 9 | 10 | 5 | 5 | 5 | 19 | 21 | 7 | 13 | CCMCF | -10 | 1 | -8 | -4 | 11 | 19 | 1 | 9 | | |

BUSINESS FORMS PRINTING COMPANY BLUE RIDGE PARK ENGINEERED FOR HIGH SPEED PRINTERS

JOB 482 LINE 4 SPREAD 1

LOOKING N80W DATE Jan 15, 1970 A= 1000 feet

CENTER 60.0 LABEL SW/NE FREQ. 1.0 - 0.1

COUPLING yes

1-21-70

MD

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Baghdad 482-70
LINE 4 HALF Sow SP. 1 DATE 4/15

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 4-5 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 |
| RECEIVE | 60. → 50 | 50. → | 40. | 40. → | | 30. | 30. | → | | 20. |
| RANGE | 1.0 | 10 | 1.0 | 10 | 1.0 | 0.1 | 10 | 1.0 | 1.0 | 0.1 |
| DC 1 .1 | 3.1 | 1.5 | 2.1 | 1.4 | 2.4 | 1.7 | 1.3 | -0.5 | 1.7 | 4.9 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 1.0 | 81.1 | 146. | 18.5 | 190. | 20.4 | 6.26 | 136. | 45 | 16.7 | 2.36 |
| AC 2 1.0 | 0.2 | -0.2 | -0.2 | 0.0 | 0.2 | -0.3 | 0.0 | 0.2 | -0.2 | 1.1 |
| AC AVG. | | | | | | | | | | |
| S.P. | -1.4 | -8.8 → | | 9.4 | → | | 16.1 | → | | → |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

PAGE

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bagdad 482-70
LINE 4 HALF STOW SP. 1 DATE 1/15

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 3-4 | 4-5 | ~~1-2~~ | ~~2-3~~ | ~~3-4~~ | ~~4-5~~ | CAL 1 |
| RECEIVE | 20. | → | → | 10.50 | ~~10.~~ | → | → | ~~0.0~~ | |
| RANGE | 1.0 | 1.0 | 0.1 | 0.1 | NOT DONE DUE TO | | | | 10 |
| DC 1 .1 | 4.2 | 6.8 | 6.0 | 2.4 | CROSSING OF PIPELINE | | | | 0.2 |
| DC 2 | | | | | | | 100 FT | | |
| DC 3 | This | Station | | 150' | short, pot | | 6' No of | | |
| DC 4 | | | | | | | | | |
| DC 5 | | power line | | | | | | | |
| DC 6 | pot STATION 10.0 FT | | | | | | | | |
| DC 7 | 150 FT. short. | | | | | | | | |
| DC 8 | | | | | | | | | |
| DC AVG. | | | | | | | | | |
| AC 1 1.0 | 30.2 | 16.7 | 10.27 | 5.66 | | | | | 197 |
| AC 2 1.0 | 0.0 | -0.1 | 0.0 | -0.4 | | | | | 0.2 |
| AC AVG. | | | | | | | | | |
| S.P. | 5.4 | → | → | → | | | | | |
| AC NOISE | | | | | | | | | |
| POT RES. | | | | | | | | | |

HEINRICHS GEOEXPLORATION CO.

# I. P. SENDER NOTES

PROJECT BASJAJ 487-80

LINE 4 HALF S SP. 1 DATE 1-15

PAGE

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 4-5 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 |
| RECEIVE | 60-50 | 50 — | — 40 | 40 — | — | — 30 | 30 — | — | — | — 20 |
| RANGE | H1 — | — | — | — | — | — | — | — | — | — → |
| VOLTAGE | 420 | 400 | 420 | 300 | 400 | 420 | 330 | 300 | 400 | 420 |
| CURRENT | 7.5A | 7.5A | 7.5A | 7.5A | 7.5A | 7.5A | 7.5A | 7.5A | 7.5A | 7.5A |
| SEND | 1-2 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 | | CA1 |
| RECEIVE | 20 — | — | — | — 10 | 10 — | — | — | — 00 | | 3-4 |
| RANGE | H1 — | — | — | — | — | — | . | — → | | |
| VOLTAGE | 330 | 300 | 400 | 420 | | | | | | 100 |
| CURRENT | 7.5A | 7.5A | 7.5A | 7.5A | | | | | | 2.0A |

FREQUENCIES 1.0 0.1

SENDER NO. MK 4 6644-S

OPERATOR DJT

RECEIVER NO. 4-C

OPERATOR D.C.

COMMENTS:

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT Bagdad 482-70

LINE 4 HALF N 10E SP. 1 DATE 1/15

PAGE 1

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 1-2 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 |
| RECEIVE | 60 → 70 | 70.0 → | 80.0 | 80.0 | → | 90.0 | 90.0 | → | → | 100.0 |
| RANGE | 10 | 1.0 | 1.0 | 10 | 1.0 | 1.0 | 10.0 | 1.0 | 1.0 | 0.1 |
| DC 1 .1 | 2.1 | 2.9 | 2.8 | 0.1 | 2.8 | 2.0 | 1.5 | 1.7 | 2.8 | 1.1 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 1.0 | 151. | 84.1 | 19.2 | 236. | 18.7 | 10.2 | 439. | 33.0 | 11.6 | 6.84 |
| AC 2 1.0 | 0.0 | -0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.2 | 0.1 |
| AC AVG. | ~~2.1~~ | ~~0.0~~ | | | | | | | | |
| S.P. | 2.1 | 0.0 | ~~2.8~~ | 2.8 | → | → | 2.1 | → | → | → |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bagdad 4/82-70
LINE 4 HALF Line SP. 1 DATE 1/15

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | CAL | |
| RECEIVE | 100. | → | → | 110. | 110. | → | → | 120. | | |
| RANGE | 1.0 | 1.0 | 1.0 | 0.1 | 1.0 | 0.1 | 0.1 | 0.1 | 10 | |
| DC 1 -1 | 3.6 | 2.4 | -2.0 | 8.8 | 3.3 | 2.0 | -0.8 | 5.1 | 0.3 | |
| DC 2 | | | | | | | | | | |
| DC 3 | This station approx. | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | 150' South of station | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | 10,000' W, L 3? | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 1.0 | 44.3 | 18.8 | 14.1 | 4.19 | 14.7 | 9.10 | 6.48 | 3.11 | 197.5 | |
| AC 2 1.0 | -0.1 | 0.0 | 0.2 | -0.5 | -0.1 | 0.0 | -0.2 | -0.1 | 0.3 | |
| AC AVG. | | | | | | | | | | |
| S.P. | 4.0 | → | → | → | 13.7 | → | → | → | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

PAGE

HEINRICHS GEOEXPLORATION CO.

# I. P. SENDER NOTES

PROJECT Bagdad 482-70
LINE 4 HALF N SP. 1 DATE 4-5-70

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 1-2 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 |
| RECEIVE | 60-70 | 70 — | — 80 | 80 — | — | — 90 | 90 — | — | — | — 100 |
| RANGE | H1 — | — | — | — | — | — | — | — | — | → |
| VOLTAGE | 330 | 300 | 330 | 400 | 300 | 330 | 420 | 400 | 300 | 330 |
| CURRENT | 7.5A | 7.5A | 7.5A | 7.5A | 7.5A | 7.5A | 7.5A | 7.5A | 7.5A | 7.5A |
| SEND | 4-5 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | | CA 1 |
| RECEIVE | 100 — | — | — | — 110 | 110 — | — | — | — 120 | | 2-3 |
| RANGE | H1 — | — | — | — | — | — | — | — | | → |
| VOLTAGE | 420 | 400 | 300 | 330 | 420 | 400 | 300 | 330 | | 80 |
| CURRENT | 7.5A | 7.5A | 7.5A | 7.5A | 7.5A | 7.5A | 7.5A | 7.5A | | 2.0A |

FREQUENCIES 1.0 0.1
SENDER NO. MK4 6644-S
OPERATOR D.J.T.
RECEIVER NO. 4C
OPERATOR D.C.

COMMENTS: Running on a N.-S. Line Approx 500' E. of + Parallel To a pipe Line + Power line.

HEINRICHS GEOEX JOB 482-69 LINE 4 SPREAD 1 LOOKING N80W 1-15-70 A= 1000 FEET

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7.500 | 7.500 | 7.500 | 7.500 | 7.500 | 7.500 | 7.500 | 7.500 | 7.500 | 7.500 | I | 7.500 | 7.500 | 7.500 | 7.500 | 7.500 | 7.500 | 7.500 | 7.500 | 2.000 | |
| 31 | 15 | 21 | 14 | 24 | 17 | 13 | -5 | 17 | 49 | DC | 42 | 68 | 60 | 24 | | | | | 2 | LEFT |
| 31 | 15 | 21 | 14 | 24 | 17 | 13 | -5 | 17 | 49 | | 42 | 68 | 60 | 24 | | | | | 2 | SIDE |
| 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | N | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | | |
| 3.1 | 1.5 | 2.1 | 1.4 | 2.4 | 1.7 | 1.3 | -.5 | 1.7 | 4.9 | PFEA | 4.2 | 6.8 | 6.0 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | .2 | |
| 81.10 | 146.0 | 18.50 | 190.0 | 20.40 | 6.260 | 136.0 | 45.00 | 16.70 | 2.360 | AC1 | 30.20 | 16.70 | 10.27 | 5.660 | 0.000 | 0.000 | 0.000 | 0.000 | 197.0 | |
| .2 | -.2 | -.2 | 0.0 | .2 | -.3 | 0.0 | .2 | -.2 | 1.1 | AC2 | 0.0 | -.1 | 0.0 | -.4 | 0.0 | 0.0 | 0.0 | 0.0 | .2 | |
| 81.18 | 145.9 | 18.48 | 190.0 | 20.42 | 6.251 | 136.0 | 45.04 | 16.68 | 2.373 | ACA | 30.20 | 16.69 | 10.27 | 5.649 | 0.000 | 0.000 | 0.000 | 0.000 | 197.2 | |
| 33.89 | 60.06 | 30.62 | 78.08 | 33.87 | 25.80 | 55.84 | 72.58 | 68.83 | 20.07 | RHO | 51.02 | 72.29 | 88.24 | 82.21 | *000.0 | *000.0 | *000.0 | *000.0 | 1.014 | DC CAL |
| 2.9 | 1.5 | 2.1 | 1.3 | 2.2 | 1.7 | 1.2 | -.7 | 1.7 | 4.2 | PFE | 4.1 | 6.7 | 5.9 | 2.5 | *000.0 | *000.0 | *000.0 | *000.0 | -.100 | AC CAL |
| 86 | 25 | 69 | 17 | 65 | 68 | 21 | -10 | 25 | 212 | MCF | 80 | 93 | 67 | 30 | *0000. | *0000. | *0000. | *0000. | | |
| .1 | .0 | .3 | 0.0 | .3 | .9 | .0 | .1 | .2 | 2.3 | CPFE | .2 | .2 | .3 | .6 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 2.8 | 1.5 | 1.8 | 1.3 | 1.9 | .9 | 1.2 | -.8 | 1.5 | 2.0 | CCPFE | 3.9 | 6.5 | 5.6 | 1.9 | *000.0 | *000.0 | *000.0 | *000.0 | | |
| 83 | 24 | 59 | 17 | 57 | 33 | 21 | -11 | 21 | 99 | CCMCF | 77 | 90 | 63 | 23 | *0000. | *0000. | *0000. | *0000. | | |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7.500 | 7.500 | 7.500 | 7.500 | 7.500 | 7.500 | 7.500 | 7.500 | 7.500 | 7.500 | I | 7.500 | 7.500 | 7.500 | 7.500 | 7.500 | 7.500 | 7.500 | 7.500 | 2.000 | |
| 21 | 29 | 28 | 1 | 28 | 20 | 15 | 17 | 28 | 11 | DC | 36 | 24 | -20 | 88 | 33 | 20 | -8 | 51 | 3 | RIGHT |
| 21 | 29 | 28 | 1 | 28 | 20 | 15 | 17 | 28 | 11 | | 36 | 24 | -20 | 88 | 33 | 20 | -8 | 51 | 3 | SIDE |
| 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | N | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | | |
| 2.1 | 2.9 | 2.8 | .1 | 2.8 | 2.0 | 1.5 | 1.7 | 2.8 | 1.1 | PFEA | 3.6 | 2.4 | -2.0 | 8.8 | 3.3 | 2.0 | -.8 | 5.1 | .3 | |
| 151.0 | 84.10 | 19.20 | 236.0 | 18.70 | 10.20 | 439.0 | 33.00 | 11.60 | 6.840 | AC1 | 44.30 | 18.80 | 14.10 | 4.190 | 14.70 | 9.100 | 6.480 | 3.110 | 197.5 | |
| 0.0 | -.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -.2 | .1 | AC2 | -.1 | 0.0 | .2 | -.5 | -.1 | 0.0 | -.2 | -.1 | .3 | |
| 151.0 | 83.97 | 19.20 | 236.0 | 18.70 | 10.20 | 439.0 | 33.00 | 11.59 | 6.843 | ACA | 44.28 | 18.80 | 14.11 | 4.180 | 14.69 | 9.100 | 6.474 | 3.108 | 197.8 | |
| 62.26 | 34.95 | 31.89 | 95.40 | 31.06 | 42.02 | 180.0 | 54.22 | 48.16 | 55.86 | RHO | 74.14 | 77.75 | 111.6 | 64.43 | 61.33 | 74.97 | 90.86 | 73.93 | 1.011 | DC CAL |
| 1.9 | 2.9 | 2.6 | -.0 | 2.6 | 1.8 | 1.4 | 1.5 | 2.7 | .9 | PFE | 3.5 | 2.2 | -2.2 | 8.9 | 3.2 | 1.8 | -.8 | 5.0 | -.150 | AC CAL |
| 31 | 83 | 83 | -1 | 85 | 44 | 8 | 29 | 57 | 16 | MCF | 47 | 29 | -20 | 138 | 52 | 25 | -9 | 68 | | |
| .0 | .1 | .3 | 0.0 | .3 | .5 | 0.0 | .1 | .4 | .6 | CPFE | .1 | .2 | .2 | .8 | .3 | .4 | .5 | 1.0 | | |
| 1.9 | 2.8 | 2.4 | -.0 | 2.3 | 1.4 | 1.4 | 1.4 | 2.4 | .3 | CCPFE | 3.4 | 2.1 | -2.5 | 8.1 | 2.9 | 1.5 | -1.4 | 4.0 | | |
| 31 | 81 | 74 | -1 | 76 | 33 | 8 | 26 | 49 | 6 | CCMCF | 46 | 26 | -22 | 126 | 48 | 19 | -15 | 54 | | |

X

ENGINEERED FOR HIGH SPEED PRINTERS BLUE-STRIPE BAR BUSINESS FORMS PRINTING COMPANY

JOB 482 LINE 4 SPREAD 1 Rept.

LOOKING W DATE Feb 10, 70 A= 1000 feet

CENTER 60.0 LABEL S/N FREQ. 1.0 - 0.1

COUPLING yes

Dummy 1st half

PAGE 1

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Baqdad 482-70
LINE 4 HALF N SP. 1 DATE 2-10

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 1-2 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 |
| RECEIVE | 60-70 | 70-80 | → | 80-90 | → | → | 90-100 | → | → | → |
| RANGE | 10 | 1.0 | 1.0 | 10 | 1.0 | 1.0 | 10 | 1.0 | 1.0 | 0.1 |
| DC 1 | 1.0 | 1.6 | 1.1 | 1.2 | 1.4 | 1.0 | 1.2 | 1.5 | 1.7 | 0.9 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 | 146. | 91.7 | 21.1 | 227. | 21.5 | 10.4 | 414. | 32.1 | 12.6 | 6.98 |
| AC 2 | 0.0 | -0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AC AVG. | | | | | | | | | | |
| S.P. | -13.4 | -6.6 | → | -10.7 | → | → | 2.0 | → | → | → |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bagdad 482-70
LINE 4 HALF N SP. ____ DATE 2-10

PAGE 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | | 4-5 |
| RECEIVE | 100-110 | → | → | → | 110-120 | → | → | → | | cal |
| RANGE | 1.0 | 1.0 | 1.0 | 0.1 | 1.0 | 0.1 | 0.1 | 0.1 | | 10 |
| DC 1 | 2.2 | 1.3 | 1.1 | 3.0 | 2.6 | 1.2 | 0.0 | 3.2 | | 0.3 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | No PFE | | | |
| DC 4 | | | | | | | But | | | |
| DC 5 | | | | | | | Punch | | | |
| DC 6 | | | | | | | 0.0 | | | |
| DC 7 | | | | | | | Anyway | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 | 48.2 | 19.9 | 11.8 | 5.86 | 15.2 | 9.18 | 5.95 | 3.30 | | 197. |
| AC 2 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.2 |
| AC AVG. | | | | | | | | | | |
| S.P. | -0.7 | → | → | → | 15.2 | → | → | → | | — |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

PAGE only

HEINRICHS GEOEXPLORATION CO.

# I. P. SENDER NOTES

PROJECT Baghdad 482

LINE 4 HALF N SP. 1 DATE 2-10-70

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 1-2 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 |
| RECEIVE | 60-70 | 70 — | — 80 | 80 — | — | — 90 | 90 — | — | — | — 100 |
| RANGE | 233X30 | 233X30 | 233X30 | 233X30 | 233X30 | 233X30 | 233X30 | 233X30 | 233X30 | 233X30 |
| VOLTAGE | 380 | 380 | 380 | 420 | 400 | 380 | 400 | 420 | 400 | 380 |
| CURRENT | 7.0A | 7.0A | 7.0A | 7.0A | 7.0A | 7.0A | 7.0A | 7.0A | 7.0A | 7.0A |
| SEND | 4-5 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | | 4-5 |
| RECEIVE | 100 — | — | — | — 110 | 110 — | — | — | — 120 | | CA1 |
| RANGE | 233X30 | 233X30 | 233X30 | 233X30 | 233X30 | 233X30 | 233X30 | 233X30 | | 200X10 |
| VOLTAGE | 420 | 420 | 400 | 380 | 400 | 420 | 400 | 380 | | 120 |
| CURRENT | 7.0A | 7.0A | 7.0A | 7.0A | 7.0A | 7.0A | 7.0A | 7.0A | | 2.0A |

FREQUENCIES .1 1.0

SENDER NO. 6644-S MK 4

OPERATOR DJT

RECEIVER NO. MK 4 C 196815

OPERATOR D.C.

COMMENTS:

HEINRICHS GEOEX JOB 482 LINE 4 SPREAD 1 REPT LOOKING W 2-10-70 A= 1000 FEET

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | I | 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | 2.000 | | |
| 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | DC N | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | | | LEFT |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | PFEA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | AC1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | | LEFT |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | AC2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | ACA | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | | LEFT |
| *000.0 | *000.0 | *000.0 | *000.0 | *000.0 | *000.0 | *000.0 | *000.0 | *000.0 | *000.0 | RHO | *000.0 | *000.0 | *000.0 | *000.0 | *000.0 | *000.0 | *000.0 | *000.0 | | R | DC CAL |
| *000.0 | *000.0 | *000.0 | *000.0 | *000.0 | *000.0 | *000.0 | *000.0 | *000.0 | *000.0 | PFE | *000.0 | *000.0 | *000.0 | *000.0 | *000.0 | *000.0 | *000.0 | *000.0 | -0.000 | | AC CAL |
| *0000. | *0000. | *0000. | *0000. | *0000. | *0000. | *0000. | *0000. | *0000. | *0000. | MCF | *0000. | *0000. | *0000. | *0000. | *0000. | *0000. | *0000. | *0000. | | | |

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | I | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 2.000 | | |
| 10 | 16 | 11 | 12 | 14 | 10 | 12 | 15 | 17 | 9 | DC | 22 | 13 | 11 | 30 | 26 | 12 | 0 | 32 | 3 | | RIGHT |
| 10 | 16 | 11 | 12 | 14 | 10 | 12 | 15 | 17 | 9 | | 22 | 13 | 11 | 30 | 26 | 12 | 0 | 32 | 3 | | SIDE |
| 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | N | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | | | |
| 1.0 | 1.6 | 1.1 | 1.2 | 1.4 | 1.0 | 1.2 | 1.5 | 1.7 | .9 | PFEA | 2.2 | 1.3 | 1.1 | 3.0 | 2.6 | 1.2 | 0.0 | 3.2 | .3 | | |
| 146.0 | 91.70 | 21.10 | 227.0 | 21.50 | 10.40 | 414.0 | 32.10 | 12.60 | 6.980 | AC1 | 48.20 | 19.90 | 11.80 | 5.860 | 15.20 | 9.180 | 5.950 | 3.300 | 197.0 | | |
| 0.0 | -.1 | .1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | AC2 | 0.0 | 0.0 | .1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | .2 | | |
| 146.0 | 91.65 | 21.11 | 227.0 | 21.50 | 10.40 | 414.0 | 32.10 | 12.60 | 6.980 | ACA | 48.20 | 19.90 | 11.81 | 5.860 | 15.20 | 9.180 | 5.950 | 3.300 | 197.2 | | |
| 63.97 | 40.42 | 37.02 | 99.66 | 37.83 | 45.57 | 181.8 | 56.54 | 55.59 | 61.10 | RHO | 85.48 | 87.45 | 103.5 | 91.65 | 67.65 | 80.60 | 90.34 | 82.74 | 1.014 | DC CAL | |
| .8 | 1.4 | .8 | 1.0 | 1.2 | .8 | 1.0 | 1.3 | 1.5 | .7 | PFE | 2.0 | 1.1 | .8 | 2.8 | 2.4 | 1.0 | -.2 | 3.0 | -.200 | AC CAL | |
| 13 | 36 | 23 | 10 | 32 | 18 | 6 | 23 | 27 | 11 | MCF | 23 | 13 | 8 | 31 | 35 | 12 | -2 | 36 | | | |

BUSINESS FORMS PRINTING COMPANY
BLUE SPACE BAR
ENGINEERED FOR HIGH SPEED PRINTERS

JOB 482 LINE 5 SPREAD 1

LOOKING NW DATE Jan 17, 70 A= 1000 feet

CENTER 60.0 LABEL [redacted] SW/SW FREQ. 1.0 - 0.1

COUPLING yes

1-21-70
MD

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bagdad 482-70
LINE 5 HALF SW SP. 1 DATE 1/17

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 4-5 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 |
| RECEIVE | 6-5 | 5-4 → | | 4-3 → | | | 3-2 → | | | |
| RANGE | 10 | 10 | 1.0 | 10 | 1.0 | 0.1 | 10 | 1.0 | 0.1 | 0.1 |
| DC 1 .1 | 0.6 | 0.8 | 0.7 | 0.8 | 0.7 | 0.6 | 1.0 | 0.7 | 0.6 | 0.5 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 1.0 | 142. | 194. | 31.5 | 192. | 29.4 | 7.80 | 177. | 30.5 | 8.16 | 2.69 |
| AC 2 1.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | -0.2 | 0.1 | 0.0 | 0.0 | -0.2 |
| AC AVG. | | | | | | | | | | |
| S.P. | 4.3 | 3.1 → | | 0.0 | → | | 8.8 → | | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bagdad 482-7
LINE 5 HALF SW SP. 1 DATE 1/17

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 | | 34 |
| RECEIVE | 2-1 → | | | → | 1-0 → | | | → | | cal |
| RANGE | 1.0 | 1.0 | 0.1 | 0.1 | 1.0 | 0.1 | 0.1 | 0.1 | | 10 |
| DC 1 .1 | 0.2 | 0.6 | 0.6 | 0.7 | 1.0 | 0.6 | 0.7 | 0.8 | | 0.2 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 1.0 | 33.7 | 13.2 | 4.53 | 1.66 | 22.6 | 9.96 | 3.88 | 1.49 | | 197 |
| AC 2 1.0 | 0.1 | 0.0 | 0.2 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | | 0.2 |
| AC AVG. | | | | | | | | | | |
| S.P. | | | | | 8.0 → | | | → | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

HEINRICHS GEOEXPLORATION CO.

# I. P. SENDER NOTES

PAGE

PROJECT BAGDAD

LINE 5 HALF W SP. 1 DATE 1/17

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 4-5 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 |
| RECEIVE | 60 | 50 | — | 40 | — | — | 30 | — | — | — |
| RANGE | HIGH | " | " | " | " | " | " | " | " | HIGH |
| VOLTAGE | 360 | 260 | 360 | 140 | 260 | 360 | 200 | 140 | 260 | 360 |
| CURRENT | 7.0 | " | " | " | " | " | " | " | " | 7.0 |
| SEND | 1-2 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 | CAL | |
| RECEIVE | 20 | — | — | — | 10 | — | — | — | 3-4 | |
| RANGE | HIGH | " | " | " | " | " | " | HIGH | HIGH | |
| VOLTAGE | 200 | 140 | 260 | 360 | 200 | 140 | 260 | 360 | 80 | |
| CURRENT | 7.0 | " | " | " | " | " | " | 7.0 | 2.0A | |

FREQUENCIES _____ _____

SENDER NO.

OPERATOR

RECEIVER NO.

OPERATOR

COMMENTS:

HEINRICHS GEOEXPLORATION CO.

# I.P. RECEIVER NOTES

PROJECT Bagdad 482-70

LINE 5 HALF NE SP. 1 DATE 1/16

PAGE 1

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 1-2 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 |
| RECEIVE | 6-7 | 7-8 → | | 8-9 → | | | 9-10 → | | | |
| RANGE | 10 | 10 | 1.0 | 10 | 1.0 | 1.0 | 10 | 1.0 | 1.0 | 0.1 |
| DC 1 .1 | 0.7 | 0.6 | 0.8 | 0.5 | 0.5 | 0.9 | 0.6 | 0.3 | 0.2 | 1.2 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 1.0 | 194 | 142. | 31.8 | 155. | 43.1 | 18.8 | 164 | 32.1 | 16.6 | 7.28 |
| AC 2 1.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | -0.0 | 0.0 | -0.2 | -0.1 |
| AC AVG. | | | | | | | | | | |
| S.P. | 5.5 | 5.7 → | | 0.0 → | | | -9.1 → | | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

PAGE 2

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bagdad 482-70
LINE 5 HALF NE SP. 1 DATE 1/16

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | | cal |
| RECEIVE | 10-11 → | | | | 11-12 → | | | | | cal |
| RANGE | 1.0 | 1.0 | 0.1 | 0.1 | 1.0 | 0.1 | 0.1 | 0.1 | | 10 |
| DC 1 · 1 | 1.1 | 1.5 | 2.0 | 2.3 | 1.6 | 1.7 | 2.1 | 3.1 | | 0.2 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 1.0 | 32.8 | 15.8 | 9.98 | 7.41 | 14.9 | 9.66 | 7.26 | 5.61 | | 198. |
| AC 2 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.2 | | 0.2 |
| AC AVG. | | | | | | | | | | |
| S.P. | 1.0 → | | | | 30.5 → | | | | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

HEINRICHS GEOEXPLORATION CO.

# I. P. SENDER NOTES

PAGE

PROJECT BAGDAD 48270

LINE 5 HALF ~~N~~E SP. 1 DATE 1/16

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 1-2 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 |
| RECEIVE | 60 | 70 | — | 80 | — | — | 90 | — | — | — |
| RANGE | HIGH | " | " | " | " | " | " | " | " | HIGH |
| VOLTAGE | 200 | 140 | 200 | 260 | 140 | 200 | 360 | 260 | 140 | 200 |
| CURRENT | 7.0A | " | " | " | " | " | " | " | " | 7.0A |
| SEND | 4-5 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | CAL | |
| RECEIVE | 100 | — | — | — | 110 | — | — | — | 2-3 | |
| RANGE | HIGH | " | " | " | " | " | " | HIGH | HIGH | |
| VOLTAGE | 360 | 260 | 140 | 200 | 360 | 260 | 140 | 200 | 40 | |
| CURRENT | 7.0A | " | " | " | " | " | " | 7.0A | 2.0A | |

FREQUENCIES _____ _____

SENDER NO.

OPERATOR

RECEIVER NO.

OPERATOR

COMMENTS:

HEINRICHS GEOEX JOB 482-69 LINE 5 SPREAD 1 LOOKING NW 1-17-70 A= 1000 FEET

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | I | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 2.000 | |
| 6 | 8 | 7 | 8 | 7 | 6 | 10 | 7 | 6 | 5 | DC | 2 | 6 | 6 | 7 | 10 | 6 | 7 | 8 | 2 | LEFT |
| 6 | 8 | 7 | 8 | 7 | 6 | 10 | 7 | 6 | 5 | | 2 | 6 | 6 | 7 | 10 | 6 | 7 | 8 | 2 | SIDE |
| 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | N | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | | |
| .6 | .8 | .7 | .8 | .7 | .6 | 1.0 | .7 | .6 | .5 | PFEA | .2 | .6 | .6 | .7 | 1.0 | .6 | .7 | .8 | .2 | |
| 142.0 | 194.0 | 31.50 | 192.0 | 29.40 | 7.800 | 177.0 | 30.50 | 8.160 | 2.690 | AC1 | 33.70 | 13.20 | 4.530 | 1.660 | 22.60 | 9.960 | 3.880 | 1.490 | 197.0 | |
| 0.0 | 0.0 | 0.0 | .1 | 0.0 | .2 | .1 | 0.0 | 0.0 | -.2 | AC2 | .1 | 0.0 | .2 | 0.0 | 0.0 | .2 | 0.0 | 0.0 | .2 | |
| 142.0 | 194.0 | 31.50 | 192.1 | 29.40 | 7.792 | 177.1 | 30.50 | 8.160 | 2.687 | ACA | 33.72 | 13.20 | 4.535 | 1.660 | 22.60 | 9.970 | 3.880 | 1.490 | 197.2 | |
| 62.03 | 84.91 | 55.10 | 84.04 | 51.42 | 34.07 | 77.63 | 53.35 | 35.65 | 23.48 | RHO | 58.65 | 57.66 | 39.58 | 25.41 | 99.12 | 87.02 | 59.38 | 36.52 | 1.014 | DC CAL |
| .5 | .7 | .6 | .6 | .6 | .6 | .8 | .6 | .5 | .5 | PFE | .1 | .5 | .4 | .6 | .9 | .4 | .6 | .7 | -.100 | AC CAL |
| 8 | 8 | 11 | 8 | 12 | 18 | 11 | 11 | 14 | 21 | MCF | 1 | 9 | 10 | 24 | 9 | 5 | 10 | 19 | | |
| .0 | 0.0 | .1 | 0.0 | .1 | .6 | 0.0 | .1 | .6 | 1.9 | CPFE | .1 | .3 | .9 | 2.7 | .1 | .3 | .9 | 2.5 | | |
| .5 | .7 | .5 | .6 | .5 | -.0 | .8 | .5 | -.1 | -1.4 | CCPFE | -.1 | .2 | -.5 | -2.1 | .8 | .1 | -.3 | -1.8 | | |
| 8 | 8 | 8 | 8 | 9 | -0 | 11 | 9 | -2 | -58 | CCMCF | -1 | 3 | -13 | -83 | 8 | 1 | -5 | -50 | | |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | I | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 2.000 | |
| 7 | 6 | 8 | 5 | 5 | 9 | 6 | 3 | 2 | 12 | DC | 11 | 15 | 20 | 23 | 16 | 17 | 21 | 31 | 2 | RIGHT |
| 7 | 6 | 8 | 5 | 5 | 9 | 6 | 3 | 2 | 12 | | 11 | 15 | 20 | 23 | 16 | 17 | 21 | 31 | 2 | SIDE |
| 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | N | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | | |
| .7 | .6 | .8 | .5 | .5 | .9 | .6 | .3 | .2 | 1.2 | PFEA | 1.1 | 1.5 | 2.0 | 2.3 | 1.6 | 1.7 | 2.1 | 3.1 | .2 | |
| 194.0 | 142.0 | 31.80 | 155.0 | 43.10 | 18.80 | 164.0 | 32.10 | 16.60 | 7.280 | AC1 | 32.80 | 15.80 | 9.980 | 7.410 | 14.90 | 9.660 | 7.260 | 5.610 | 198.0 | |
| 0.0 | .1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -.2 | -.1 | AC2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -.2 | .2 | |
| 194.0 | 142.1 | 31.80 | 155.0 | 43.10 | 18.80 | 164.0 | 32.10 | 16.58 | 7.276 | ACA | 32.80 | 15.80 | 9.980 | 7.410 | 14.90 | 9.660 | 7.260 | 5.604 | 198.2 | |
| 84.40 | 61.72 | 55.39 | 67.30 | 74.86 | 81.95 | 71.28 | 55.64 | 71.86 | 63.66 | RHO | 57.31 | 69.29 | 87.96 | 114.6 | 65.40 | 84.89 | 112.1 | 139.9 | 1.009 | DC CAL |
| .6 | .4 | .7 | .4 | .4 | .8 | .5 | .2 | .2 | 1.1 | PFE | 1.0 | 1.4 | 1.9 | 2.2 | 1.5 | 1.6 | 2.0 | 3.1 | -.100 | AC CAL |
| 7 | 7 | 13 | 6 | 5 | 10 | 7 | 4 | 3 | 18 | MCF | 17 | 20 | 22 | 19 | 23 | 19 | 18 | 22 | | |
| 0.0 | .0 | .1 | .0 | .1 | .2 | 0.0 | .1 | .2 | .5 | CPFE | .1 | .2 | .3 | .4 | .3 | .3 | .4 | .4 | | |
| .6 | .4 | .6 | .4 | .3 | .6 | .5 | .1 | -.0 | .7 | CCPFE | .9 | 1.2 | 1.6 | 1.8 | 1.2 | 1.3 | 1.6 | 2.7 | | |
| 7 | 7 | 10 | 6 | 4 | 8 | 7 | 1 | -0 | 10 | CCMCF | 15 | 17 | 18 | 16 | 19 | 15 | 14 | 19 | | |

BUSINESS FORMS PRINTING COMPANY BLUE SPACE BAR ENGINEERED FOR HIGH SPEED PRINTERS

Cover card

JOB 482 LINE 5 SPREAD 2

LOOKING N 22 ~~E~~ W DATE Feb 27, 70 A= 1000 feet

CENTER 0.0 LABEL NW / SE FREQ. 1.0 - 0.1

COUPLING yes

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bandad 482-70
LINE 5 HALF W SP. 2 DATE 2-2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 4-5 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 |
| RECEIVE | 0-10W | 10-20 | W → | 20-30 | W → | | 30-40 | W → | | |
| RANGE | 10 | 10 | 1.0 | 10 | 10 | 1.0 | 10 | 1.0 | 1.0 | 1.0 |
| DC 1 | -3.0 | 1.3 | -0.2 | 0.0 | 1.3 | 0.2 | 1.2 | 1.2 | 2.2 | 1.8 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 | 493. | 285. | 78.0 | 435. | 102. | 40.2 | 462. | 77.6 | 24.1 | 11.1 |
| AC 2 | 0.1 | 0.0 | -0.1 | 0.2 | 0.0 | -0.1 | 0.2 | 0.0 | 0.1 | 0.2 |
| AC AVG. | | | | | | | | | | |
| S.P. | 26.4 | -12.1 → | | 9.2 → | | | 9.6 → | | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | 1.9K | 1.8K → | | 1.0K → | | | 4.4K → | | | |

PAGE 2

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 482-70 Baghdad
LINE 5 HALF W SP. 2 DATE 2-27

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 | | 1-2 |
| RECEIVE | 40-50 | W → | → | → | 50-60 | W → | → | → | | cal |
| RANGE | 10 | 1.0 | 1.0 | 0.1 | 1.0 | 0.1 | 0.1 | 0.1 | | 10 |
| DC 1 | 1.3 | 1.2 | 2.2 | 1.0 | 1.6 | 1.0 | 1.8 | 2.0 | | 0.3 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 | 104 | 31.8 | 12.6 | 6.61 | 20.9 | 8.00 | 3.75 | 2.15 | | 196. |
| AC 2 | 0.1 | 0.0 | -0.1 | -0.2 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.3 |
| AC AVG. | | | | | | | | | | |
| S.P. | 12.8 → | → | → | → | 9.1 → | → | → | → | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | 4.6 K → | → | → | → | 1.2 K → | → | → | → | | |

PAGE

HEINRICHS GEOEXPLORATION CO.

# I. P. SENDER NOTES

PROJECT 482-70 Baghdad

LINE 5 HALF W SP. 2 DATE 2-27-70

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 4-5 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 |
| RECEIVE | 0-10 W | 10-20 W | → | 20-30 W | → | → | 30-40 W | → | → | → |
| RANGE | 30:300 | 30:300 | 30:300 | 30:300 | 30:300 | 30:300 | 30:300 | 30:300 | 30:300 | 30:300 |
| VOLTAGE | 320 | 300 | 320 | 280 | 300 | 320 | 300 | 280 | 300 | 320 |
| CURRENT | 9A | 9A | 9A | 9A | 9A | 9A | 9A | 9A | 9A | 9A |
| SEND | 1-2 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 | | Cal |
| RECEIVE | 40-50 W | → | → | → | 50-60 W | → | → | → | | 1-2 |
| RANGE | 30:300 | 30:300 | 30:300 | 30:300 | 30:300 | 30:300 | 30:300 | 30:300 | | 10:200 |
| VOLTAGE | 300 | 280 | 300 | 320 | 300 ✓ | 280 | 300 | 320 | | 60 |
| CURRENT | 9A | 9A | 9A | 9A | 9A ✓ | 9A | 9A | 9A | | 2A |

FREQUENCIES 1 1.0

SENDER NO. 6641-S

OPERATOR Kern

RECEIVER NO.

OPERATOR

COMMENTS: South 68 West

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Baodad 482-70
LINE 5 HALF E SP. 2 DATE 2-27

PAGE 1

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 1-2 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 |
| RECEIVE | 0-10E | 10-20E → | | 20-30 | E → | | 30-40 | E → | | |
| RANGE | 10 | 10 | 1.0 | 10 | 1.0 | 1.0 | 10 | 1.0 | 1.0 | 1.0 |
| DC 1 | 2.2 | -2.6 | -0.9 | 2.0 | -0.8 | 0.6 | 0.5 | 1.8 | 0.4 | 1.1 |
| DC 2 | Fence Grounded every 30' at 300' E | Fence Line | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 | 280. | 508. | 79.7 | 330. | 94.1 | 41.0 | 102. | 47.2 | 30.5 | 19.0 |
| AC 2 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AC AVG. | | | | | | | | | | |
| S.P. | 10.2 | 22.5 → | | 5.9 → | | | 7.4 → | | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | 2.4K | 4.7K → | | 3.0K → | | | 3.8K → | | | |

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bagdad 482-70
LINE 5 HALF E SP. 2 DATE 2-27

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | | 4-5 |
| RECEIVE | 40-50 E → | | | | 50-60 E → | | | | | cal |
| RANGE | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.1 | | 10 |
| DC 1 | 0.8 | 1.6 | 0.5 | 1.3 | 1.0 | 1.9 | 0.9 | 1.5 | | 0.3 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 | 28.0 | 20.3 | 15.2 | 10.5 | 17.4 | 14.2 | 11.4 | 8.42 | | 196. |
| AC 2 | 0.0 | -0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.3 |
| AC AVG. | | | | | | | | | | |
| S.P. | 12.2 → | | | | 3.5 → | | | | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | 1.9K → | | | | 9.0K → | | | | | |

HEINRICHS GEOEXPLORATION CO.

# I. P. SENDER NOTES

PAGE

PROJECT 482-70 Bagdad

LINE 5 HALF E SP. 2 DATE 2-27-70

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 1-2 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 |
| RECEIVE | 0-10 E | 10-20 E | → | 20-30 E | → | → | 30-40 E | → | → | → |
| RANGE | 30·300 | 30·300 | 30·300 | 30·300 | 30·300 | 30·300 | 30·300 | 30·300 | 30·300 | 30·300 |
| VOLTAGE | 300 | 280 | 300 | 300 | 280 | 300 | 320 | 300 | 280 | 300 |
| CURRENT | 9A | 9A | 9A | 9A | 9A | 9A | 9A | 9A | 9A | 9A |
| SEND | 4-5 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | | Cal. |
| RECEIVE | 40-50 E | → | → | → | 50-60 E | → | → | → | | 4-5 |
| RANGE | 30·300 | 30·300 | 30·300 | 30·300 | 30·300 | 30·300 | 30·300 | 30·300 | | 10·200 |
| VOLTAGE | 320 | 300 | 280 | 300 | 320 | 300 | 290 | 300 | | 80 |
| CURRENT | 9A | 9A | 9A | 9A | 9A | 9A | 9A | 9A | | 2A |

FREQUENCIES .1 1.0

SENDER NO. 6644-S

OPERATOR Kern

RECEIVER NO.

OPERATOR

COMMENTS: North 68 East

1.0 0.1

HEINRICHS GEOEX JOB 482 - 70 LINE 5 SPREAD 2 LOOKING N 22 E 2-27-70 A= 1000 FEET

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | I | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 2.000 | |
| -30 | 13 | -2 | 0 | 13 | 2 | 12 | 12 | 22 | 18 | DC | 13 | 12 | 22 | 10 | 16 | 10 | 18 | 20 | 3 | LEFT |
| -30 | 13 | -2 | 0 | 13 | 2 | 12 | 12 | 22 | 18 | | 13 | 12 | 22 | 10 | 16 | 10 | 18 | 20 | 3 | SIDE |
| 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | N | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | | |
| -3.0 | 1.3 | -.2 | 0.0 | 1.3 | .2 | 1.2 | 1.2 | 2.2 | 1.8 | PFEA | 1.3 | 1.2 | 2.2 | 1.0 | 1.6 | 1.0 | 1.8 | 2.0 | .3 | |
| 493.0 | 285.0 | 78.00 | 435.0 | 102.0 | 40.20 | 462.0 | 77.60 | 24.10 | 11.10 | AC1 | 104.0 | 31.80 | 12.60 | 6.610 | 20.90 | 8.000 | 3.750 | 2.150 | 196.0 | |
| .1 | 0.0 | -.1 | .2 | 0.0 | -.1 | .2 | 0.0 | .1 | .2 | AC2 | .1 | 0.0 | -.1 | -.2 | 0.0 | 0.0 | 0.0 | 0.0 | .3 | |
| 493.2 | 285.0 | 77.96 | 435.4 | 102.0 | 40.18 | 462.5 | 77.60 | 24.11 | 11.11 | ACA | 104.1 | 31.80 | 12.59 | 6.603 | 20.90 | 8.000 | 3.750 | 2.150 | 196.3 | |
| 162.2 | 97.91 | 105.6 | 147.5 | 140.2 | 136.6 | 158.6 | 106.5 | 83.53 | 76.64 | RHO | 142.9 | 109.1 | 87.34 | 79.24 | 72.01 | 54.80 | 45.31 | 41.65 | 1.019 | DC CAL |
| -3.2 | 1.1 | -.3 | -.2 | 1.1 | .1 | .9 | 1.0 | 2.0 | 1.5 | PFE | 1.1 | 1.0 | 2.1 | .9 | 1.4 | .9 | 1.6 | 1.8 | -.150 | AC CAL |
| -20 | 12 | -3 | -2 | 8 | 1 | 6 | 10 | 24 | 20 | MCF | 8 | 10 | 24 | 12 | 20 | 16 | 36 | 44 | | |
| 0.0 | 0.0 | .1 | 0.0 | .0 | .1 | 0.0 | .1 | .2 | .4 | CPFE | .0 | .1 | .3 | .6 | .2 | .6 | 1.3 | 2.1 | | |
| -3.2 | 1.1 | -.4 | -.2 | 1.1 | .0 | .9 | 1. | 1.8 | 1.2 | CCPFE | 1.1 | .9 | 1.8 | .3 | 1.2 | .2 | .4 | -.3 | | |
| -20 | 12 | -3 | -2 | 8 | 0 | 6 | 9 | 22 | 15 | CCMCF | 7 | 8 | 20 | 4 | 17 | 5 | 8 | -7 | | |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | I | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 2.000 | |
| 22 | -26 | -9 | 20 | -8 | 6 | 5 | 18 | 4 | 11 | DC | 8 | 16 | 5 | 13 | 10 | 19 | 9 | 15 | 3 | RIGHT |
| 22 | -26 | -9 | 20 | -8 | 6 | 5 | 18 | 4 | 11 | | 8 | 16 | 5 | 13 | 10 | 19 | 9 | 15 | 3 | SIDE |
| 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | N | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | | |
| 2.2 | -2.6 | -.9 | 2.0 | -.8 | .6 | .5 | 1.8 | .4 | 1.1 | PFEA | .8 | 1.6 | .5 | 1.3 | 1.0 | 1.9 | .9 | 1.5 | .3 | |
| 280.0 | 508.0 | 79.70 | 330.0 | 94.10 | 41.00 | 102.0 | 47.20 | 30.50 | 19.00 | AC1 | 28.00 | 20.30 | 15.20 | 10.50 | 17.40 | 14.20 | 11.40 | 8.420 | 196.0 | |
| 0.0 | .4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | AC2 | 0.0 | -.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | .3 | |
| 280.0 | 509.0 | 79.70 | 330.0 | 94.10 | 41.00 | 102.0 | 47.20 | 30.50 | 19.00 | ACA | 28.00 | 20.29 | 15.2 | 10.50 | 17.40 | 14.20 | 11.40 | 8.420 | 196.3 | |
| 97.04 | 167.8 | 107.1 | 114.2 | 126.6 | 139.9 | 34.76 | 65.18 | 103.8 | 130.3 | RHO | 38.29 | 69.94 | 103.6 | 126.2 | 59.60 | 98.14 | 136.5 | 162.3 | 1.019 | DC CAL |
| 2.0 | -2.9 | -1.0 | 1.8 | -.9 | .4 | .4 | 1.6 | .3 | .9 | PFE | .6 | 1.5 | .4 | 1.1 | .9 | 1.8 | .8 | 1.4 | -.150 | AC CAL |
| 21 | -18 | -10 | 16 | -8 | 3 | 10 | 25 | 2 | 7 | MCF | 17 | 21 | 3 | 9 | 14 | 18 | 5 | 8 | | |
| 0.0 | 0.0 | .1 | 0.0 | .0 | .1 | .1 | .1 | .1 | .2 | CPFE | .2 | .2 | .3 | .3 | .3 | .3 | .3 | .3 | | |
| 2.0 | -2.9 | -1.1 | 1.8 | -1.0 | .4 | .3 | 1.5 | .1 | .8 | CCPFE | .4 | 1.3 | .1 | .8 | .6 | 1.5 | .5 | 1.0 | | |
| 21 | -18 | -10 | 16 | -8 | 3 | 8 | 24 | 1 | 6 | CCMCF | 11 | 18 | 1 | 7 | 9 | 15 | 3 | 6 | | |

BUSINESS FORMS PRINTING COMPANY
ENGINEERED FOR HIGH SPEED PRINTERS

JOB 482 LINE 6 SPREAD 1

LOOKING W DATE Jan 18 A= 1000 feet

CENTER 60.0 LABEL S/S FREQ. 1.0 0.1

COUPLING yes

1-21-70
MD

HEINRICHS GEOEXPLORATION CO.

# I.P. RECEIVER NOTES

PROJECT Baqdad 482-70

LINE 6 HALF S SP. 1 DATE 1-18

PAGE 1

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 4-5 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 |
| RECEIVE | 6-5 | 5-4 → | | 4-3 → | | | 3-2 → | | | |
| RANGE | 10 | 10 | 1.0 | 10 | 1.0 | 1.0 | 10 | 1.0 | 1.0 | 0.1 |
| DC 1 · 1 | 0.9 | 1.0 | 0.9 | 1.1 | 0.9 | 1.0 | 1.4 | 0.9 | 0.7 | 0.9 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 1.0 | 880. | 345. | 48.1 | 163. | 34.4 | 13.6 | 207. | 33.2 | 18.3 | 9.43 |
| AC 2 1.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AC AVG. | | | | | | | | | | |
| S.P. | 5.4 | 5.6 → | | 2.5 → | | | 12.2 → | | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bagdad 482-70
LINE 6 HALF S SP. 1 DATE 1-18

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 | | 3-4 |
| RECEIVE | 2-1 | → | → | → | 1-0 | → | → | → | | cal |
| RANGE | 1.0 | 1.0 | 0.1 | 0.1 | 1.0 | 0.1 | 0.1 | 0.1 | | 10 |
| DC 1 | 1.2 | 0.8 | 0.7 | 1.0 | 1.1 | 0.8 | 1.0 | 1.4 | | 0.2 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | — | — | — | — | — | — | — | — | | — |
| AC 1 | 23.0 | 13.9 | 9.68 | 5.72 | 12.1 | 8.84 | 7.05 | 4.70 | | 197 |
| AC 2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | | 0.2 |
| AC AVG. | | | | | | | | | | |
| S.P. | 21.4 | → | → | → | 2.4 | → | → | → | | — |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

PAGE

HEINRICHS GEOEXPLORATION CO.

# I. P. SENDER NOTES

PROJECT BAGDAD

LINE 6 HALF 5 SP. 1 DATE 1/19

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 4-5 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 |
| RECEIVE | 60 | 50 | — | 40 | — | — | 30 | — | — | — |
| RANGE | HIGH | " | " | " | " | " | " | " | " | HIGH |
| VOLTAGE | 220 | 200 | 220 | 400 | 200 | 220 | 460 | 400 | 200 | 220 |
| CURRENT | 7.0A | " | " | 4.0A | 7.0 | " | 4.0 | " | 7.0 | 7.0A |
| SEND | 1-2 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 | CAL | |
| RECEIVE | 20 | — | — | — | 10 | — | — | — | 3-4 | |
| RANGE | HIGH | " | " | " | " | " | " | HIGH | HIGH | |
| VOLTAGE | 460 | 400 | 200 | 220 | 460 | 400 | 200 | 220 | 200 | |
| CURRENT | 4.0 | " | 7.0 | " | 4.0A | " | 7.0 | 7.0 | 2.0A | |

FREQUENCIES _____ _____

SENDER NO.

OPERATOR

RECEIVER NO.

OPERATOR

COMMENTS: SOUTH 10° EAST AFTER ELECTRODE # 1 ?

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bagdad 482-70
LINE 6 HALF N SP. 1 DATE 1-18

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 1-2 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 |
| RECEIVE | 6-7 | 7-8 → | | 8-9 → | | | 9-10 → | | | |
| RANGE | 10 | 10 | 1.0 | 10 | 1.0 | 0.1 | 10 | 1.0 | 0.1 | 0.1 |
| DC 1 .1 | 0.8 | 0.8 | 1.0 | 1.1 | 1.0 | 0.4 | 1.0 | 0.9 | 0.5 | 0.8 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 1.0 | 198. | 482. | 27.2 | 587. | 36.5 | 7.40 | 386. | 39.7 | 7.55 | 3.54 |
| AC 2 1.0 | 0.0 | 0.1 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | -0.1 | 0.0 | 0.0 |
| AC AVG. | | | | | | | | | | |
| S.P. | 0.0 | 14.7 → | | 32.0 → | | | 10.3 → | | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Baqdad 482-70
LINE 6 HALF N SP. 1 DATE 1-18

PAGE 4

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | | 2-3 |
| RECEIVE | 10-11 → | | | → | 11-12 → | | | → | | cal |
| RANGE | 1.0 | 1.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | 10 |
| DC 1 .1 | 1.0 | 1.0 | 0.8 | 1.2 | 0.8 | 0.8 | 1.1 | 1.9 | | 0.0 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | — | — | — | — | — | — | — | — | — | — |
| AC 1 1.0 | 36.5 | 12.0 | 4.00 | 2.33 | 1.075 | 5.42 | 2.11 | 1.34 | | 196. |
| AC 2 1.0 | 0.1 | 0.0 | 0.0 | -0.1 | 0.1 | 0.0 | -0.1 | 0.2 | | 0.0 |
| AC AVG. | | | | | | | | | | |
| S.P. | 7.1 → | | | → | 17.7 → | | | → | | — |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

PAGE

HEINRICHS GEOEXPLORATION CO.

# I. P. SENDER NOTES

PROJECT BAGDAD

LINE 6 HALF N SP. 1 DATE 1-18

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 1-3 | 1-2 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 |
| RECEIVE | 60 | 70 | — | 80 | — | — | 90 | — | — | — |
| RANGE | HIGH | " | " | " | " | " | " | " | " | HIGH |
| VOLTAGE | 420 | 400 | 420 | 200 | 400 | 420 | 220 | 200 | 400 | 420 |
| CURRENT | 4.0 | " | " | 7.0 | 4.0 | " | 7.0 | " | 4.0 | 4.0 |
| SEND | 4-5 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | CAL | |
| RECEIVE | 100 | — | — | — | 110 | — | — | — | 2-3 | |
| RANGE | HIGH | " | " | " | " | " | " | " | HIGH | |
| VOLTAGE | 220 | 200 | 400 | 420 | 220 | 200 | 400 | 420 | 200 | |
| CURRENT | 7.0 | " | 4.0 | " | 7.0A | " | 4.0 | 4.0 | 2.0 | |

FREQUENCIES _____ _____

SENDER NO.

OPERATOR

RECEIVER NO.

OPERATOR

COMMENTS:

HEINRICHS GEOEX JOB 482-69 LINE 6 SPREAD 1 LOOKING W 1-18-70 A= 1000 FEET

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7.000 | 7.000 | 7.000 | 4.000 | 7.000 | 7.000 | 4.000 | 4.000 | 7.000 | 7.000 | I | 4.000 | 4.000 | 7.000 | 7.000 | 4.000 | 4.000 | 7.000 | 7.000 | 2.000 | |
| 9 | 10 | 9 | 11 | 9 | 10 | 14 | 9 | 7 | 9 | DC | 12 | 8 | 7 | 10 | 11 | 8 | 10 | 14 | 2 | LEFT |
| 9 | 10 | 9 | 11 | 9 | 10 | 14 | 9 | 7 | 9 | | 12 | 8 | 7 | 10 | 11 | 8 | 10 | 14 | 2 | SIDE |
| 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | N | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | | |
| .9 | 1.0 | .9 | 1.1 | .9 | 1.0 | 1.4 | .9 | .7 | .9 | PFEA | 1.2 | .8 | .7 | 1.0 | 1.1 | .8 | 1.0 | 1.4 | .2 | |
| 880.0 | 345.0 | 48.10 | 163.0 | 34.40 | 13.60 | 207.0 | 33.20 | 18.30 | 9.430 | AC1 | 23.00 | 13.90 | 9.680 | 5.720 | 12.10 | 8.840 | 7.050 | 4.700 | 197.0 | |
| 0.0 | .1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | AC2 | .2 | 0.0 | 0.0 | 0.0 | .1 | 0.0 | 0.0 | 0.0 | .2 | |
| 880.0 | 345.2 | 48.10 | 163.0 | 34.40 | 13.60 | 207.0 | 33.20 | 18.30 | 9.430 | ACA | 23.02 | 13.90 | 9.680 | 5.720 | 12.11 | 8.840 | 7.050 | 4.700 | 197.2 | |
| 385.6 | 151.3 | 84.30 | 125.2 | 60.29 | 59.65 | 159.5 | 101.8 | 80.02 | 82.63 | RHO | 70.75 | 106.5 | 84.66 | 87.80 | 92.96 | 135.4 | 108.2 | 115.9 | 1.014 | DC CAL |
| .8 | .8 | .8 | 1.0 | .8 | .9 | 1.3 | .8 | .6 | .8 | PFE | 1.0 | .7 | .6 | .9 | .9 | .7 | .9 | 1.3 | -.100 | AC CAL |
| 2 | 6 | 9 | 8 | 13 | 15 | 8 | 8 | 7 | 10 | MCF | 14 | 7 | 7 | 10 | 10 | 5 | 8 | 11 | | |
| 0.0 | 0.0 | .1 | 0.0 | .1 | .3 | 0.0 | .1 | .2 | .3 | CPFE | .1 | .1 | .3 | .5 | .2 | .2 | .4 | .6 | | |
| .8 | .8 | .7 | 1.0 | .7 | .6 | 1.3 | .7 | .4 | .5 | CCPFE | .9 | .6 | .3 | .4 | .8 | .5 | .5 | .7 | | |
| 2 | 6 | 9 | 8 | 11 | 10 | 8 | 7 | 5 | 6 | CCMCF | 13 | 5 | 3 | 4 | 9 | 4 | 5 | 6 | | |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4.000 | 4.000 | 4.000 | 7.000 | 4.000 | 4.000 | 7.000 | 7.000 | 4.000 | 4.000 | I | 7.000 | 7.000 | 4.000 | 4.000 | 7.000 | 7.000 | 4.000 | 4.000 | 2.000 | |
| 8 | 8 | 10 | 11 | 10 | 4 | 10 | 9 | 5 | 8 | DC | 10 | 10 | 8 | 12 | 8 | 8 | 11 | 19 | 0 | RIGHT |
| 8 | 8 | 10 | 11 | 10 | 4 | 10 | 9 | 5 | 8 | | 10 | 10 | 8 | 12 | 8 | 8 | 11 | 19 | 0 | SIDE |
| 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | N | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | | |
| .8 | .8 | 1.0 | 1.1 | 1.0 | .4 | 1.0 | .9 | .5 | .8 | PFEA | 1.0 | 1.0 | .8 | 1.2 | .8 | .8 | 1.1 | 1.9 | 0.0 | |
| 198.0 | 482.0 | 27.20 | 587.0 | 36.50 | 7.400 | 386.0 | 39.70 | 7.550 | 3.540 | AC1 | 36.50 | 12.00 | 4.000 | 2.330 | 10.75 | 5.420 | 2.110 | 1.340 | 196.0 | |
| 0.0 | .1 | 0.0 | .2 | 0.0 | 0.0 | 0.0 | -.1 | 0.0 | 0.0 | AC2 | .1 | 0.0 | 0.0 | -.1 | .1 | 0.0 | -.1 | .2 | 0.0 | |
| 198.0 | 482.2 | 27.20 | 587.6 | 36.50 | 7.400 | 386.0 | 39.68 | 7.550 | 3.540 | ACA | 36.52 | 12.00 | 4.000 | 2.329 | 10.76 | 5.420 | 2.109 | 1.341 | 196.0 | |
| 152.7 | 371.8 | 84.10 | 259.5 | 112.9 | 56.86 | 170.5 | 70.07 | 58.07 | 54.62 | RHO | 64.49 | 53.00 | 61.71 | 63.16 | 47.39 | 47.78 | 57.14 | 58.52 | 1.020 | DC CAL |
| .8 | .7 | 1.0 | 1.0 | 1.0 | .4 | 1.0 | .9 | .5 | .8 | PFE | .9 | 1.0 | .8 | 1.2 | .7 | .8 | 1.1 | 1.8 | -0.000 | AC CAL |
| 5 | 2 | 12 | 4 | 9 | 7 | 6 | 14 | 9 | 15 | MCF | 15 | 19 | 13 | 20 | 16 | 17 | 20 | 31 | | |
| 0.0 | 0.0 | .1 | 0.0 | .0 | .3 | 0.0 | .1 | .3 | .6 | CPFE | .1 | .3 | .5 | .8 | .4 | .7 | .9 | 1.4 | | |
| .8 | .7 | .9 | 1.0 | 1.0 | .1 | 1.0 | .9 | .2 | .2 | CCPFE | .8 | .7 | .3 | .4 | .4 | .1 | .2 | .4 | | |
| 5 | 2 | 11 | 4 | 8 | 2 | 6 | 12 | 4 | 4 | CCMCF | 13 | 13 | 5 | 7 | 8 | 2 | 4 | 7 | | |

BUSINESS FORMS PRINTING COMPANY BLUE SPACE BAR ENGINEERED FOR HIGH SPEED PRINTERS

JOB 482 LINE 7 SPREAD 1

LOOKING W DATE Jan 19 A= 1000 feet

CENTER 60.0 LABEL 5/5 FREQ. 1.0 - 0.1

COUPLING yes 1-22-70

MP

9 amp
2 amp cal

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bagdad 482-70
LINE 7 HALF S SP. 1 DATE 1-19

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 4-5 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 |
| RECEIVE | 6-5 | 5-4 → | | 4-3 → | | | 3-2 → | | | |
| RANGE | 10 | 10 | 1.0 | 10 | 1.0 | 0.1 | 1.0 | 0.1 | 0.1 | 0.01 |
| DC 1 .1 | 1.2 | 1.1 | 1.6 | 1.0 | 1.5 | 2.1 | 1.0 | 1.2 | 1.8 | 3.0 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 1.0 | 497. | 225. | 26.2 | 128. | 12.9 | 3.19 | 47.6 | 6.64 | 1.68 | 0.899 |
| AC 2 1.0 | 0.0 | 0.0 | -0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AC AVG. | | | | | | | | | | |
| S.P. | 6.6 | 0.0 → | | 10.0 → | | | 10.0 → | | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

9 amp

HEINRICHS GEOEXPLORATION CO.

I.P. RECEIVER NOTES

PROJECT Bagdad 482-70

LINE 7 HALF S/SE SP. 1 DATE 1-19

PAGE 4

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 | | 3-4 |
| RECEIVE | 2% | → | | → | 50 | → | | → | | cal |
| RANGE | 0.1 | 0.1 | 0.01 | 0.01 | 0.1 | 0.01 | 0.01 | 0.01 | | 10 |
| DC 1 .1 | * 1.6 | 2.0 | 2.4 | 4.0 | 2.2 | 3.0 | 4.8 | 5.6 | | 0.2 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | Receiver (10) sitting app. | | | | | |
| DC 4 | | | | | 150' East of quarter section | | | | | |
| DC 5 | | | | | S-32 S-29 | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | This | Side S | 15° E | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 1.0 | 7.28 | 1.84 | 0.746 | 0.557 | 1.60 | 0.583 | 0.314 | 0.275 | | 198 |
| AC 2 1.0 | 0.0 | 0.2 | -0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| AC AVG. | | | | | | | | | | |
| S.P. | 19.9 | → | | → | 0.0 | → | | → | | — |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

PAGE 1

HEINRICHS GEOEXPLORATION CO.

# I.P. RECEIVER NOTES

PROJECT Baagad 482-70

LINE 7 HALF N SP. 1 DATE 1-19

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 1-2 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 |
| RECEIVE | 6-7 | 7-8 | → | 8-9 | → | → | 9-10 | → | → | → |
| RANGE | 10 | 10 | 1.0 | 10 | 1.0 | 0.1 | 10 | 10 | 1.0 | 0.1 |
| DC 1 .1 | 1.1 | 1.2 | 2.3 | 1.1 | 1.6 | 1.5 | 1.2 | 1.5 | 1.9 | 2.3 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 1.0 | 224. | 500. | 26.2 | 492. | 51.0 | 5.20 | 781. | 123. | 16.3 | 2.68 |
| AC 2 1.0 | 0.0 | 0.0 | -0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | -0.1 |
| AC AVG. | | | | | | | | | | |
| S.P. | 0.0 | 0.0 | → | 14.1 | → | → | 0.0 | → | → | → |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Baghdad 482-70
LINE 7 HALF N SP. 1 DATE 1-19

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | | 2-3 |
| RECEIVE | 10-11 | → | → | → | 11-12 | → | → | → | | cal |
| RANGE | 1.0 | 1.0 | 0.1 | .01 | 1.0 | 0.1 | 0.01 | 0.01 | | 10 |
| DC 1 .1 | 1.3 | 1.7 | 1.9 | 3.1 | 1.8 | 1.9 | 3.2 | 5.1 | | 0.3 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 1.0 | 91.2 | 19.5 | 2.96 | 0.701 | 14.0 | 3.41 | 0.723 | 0.302 | | 198. |
| AC 2 1.0 | 0.0 | 0.0 | 0.10 | 0.0 | 0.0 | 0.2 | 0.0 | -0.6 | | 0.3 |
| AC AVG. | | | | | | | | | | |
| S.P. | 0.0 | → | → | → | 6.5 | → | → | → | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

1.0 - 0.1

HEINRICHS GEOEX JOB 482-69 LINE 7 SPREAD 1 LOOKING W 1-19-70 A= 1000 FEET

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | I | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 2.000 | |
| 12 | 11 | 16 | 10 | 15 | 21 | 10 | 12 | 18 | 30 | DC | 16 | 20 | 24 | 40 | 22 | 30 | 48 | 56 | 2 | LEFT |
| 12 | 11 | 16 | 10 | 15 | 21 | 10 | 12 | 18 | 30 | | 16 | 20 | 24 | 40 | 22 | 30 | 48 | 56 | 2 | SIDE |
| 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | N | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | | |
| 1.2 | 1.1 | 1.6 | 1.0 | 1.5 | 2.1 | 1.0 | 1.2 | 1.8 | 3.0 | PFEA | 1.6 | 2.0 | 2.4 | 4.0 | 2.2 | 3.0 | 4.8 | 5.6 | .2 | |
| 497.0 | 225.0 | 26.20 | 128.0 | 12.90 | 3.190 | 47.60 | 6.640 | 1.680 | .899 | AC1 | 7.280 | 1.840 | .746 | .557 | 1.600 | .583 | .314 | .275 | 198.0 | |
| 0.0 | 0.0 | -.1 | .1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | AC2 | 0.0 | .2 | -.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 497.0 | 225.0 | 26.19 | 128.1 | 12.90 | 3.190 | 47.60 | 6.640 | 1.680 | .899 | ACA | 7.280 | 1.842 | .745 | .557 | 1.600 | .583 | .314 | .275 | 198.0 | |
| 169.0 | 76.44 | 35.78 | 43.44 | 17.60 | 10.94 | 16.16 | 9.03 | 5.75 | 6.22 | RHO | 9.94 | 6.31 | 5.13 | 6.81 | 5.49 | 4.04 | 3.87 | 5.47 | 1.010 | DC CAL |
| 1.0 | .9 | 1.4 | .7 | 1.3 | 1.9 | .8 | 1.0 | 1.6 | 2.8 | PFE | 1.4 | 1.7 | 2.3 | 3.8 | 2.0 | 2.8 | 4.6 | 5.4 | -.200 | AC CAL |
| 6 | 12 | 41 | 17 | 74 | 174 | 50 | 111 | 278 | 450 | MCF | 141 | 270 | 448 | 558 | 364 | 694 | 1188 | 988 | | |
| 0.0 | 0.0 | .2 | .1 | .7 | 2.7 | .2 | 1.6 | 6.1 | 9.7 | CPFE | 1.4 | 5.4 | 12.2 | 13.6 | 6.4 | 16.2 | 26.4 | 25.5 | | |
| 1.0 | .9 | 1.2 | .7 | .6 | -.8 | .6 | -.6 | -4.5 | -6.9 | CCPFE | .0 | -3.7 | -9.9 | -9.8 | -4.4 | -13.4 | -21.8 | -20.1 | | |
| 6 | 12 | 34 | 16 | 37 | -75 | 37 | -64 | -777 | -1104 | CCMCF | 0 | -589 | -1922 | -1435 | -802 | -3315 | -5632 | -3677 | | |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | I | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 2.000 | |
| 11 | 12 | 23 | 11 | 16 | 15 | 12 | 15 | 19 | 23 | DC | 13 | 17 | 19 | 31 | 18 | 19 | 32 | 51 | 3 | RIGHT |
| 11 | 12 | 23 | 11 | 16 | 15 | 12 | 15 | 19 | 23 | | 13 | 17 | 19 | 31 | 18 | 19 | 32 | 51 | 3 | SIDE |
| 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | N | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | | |
| 1.1 | 1.2 | 2.3 | 1.1 | 1.6 | 1.5 | 1.2 | 1.5 | 1.9 | 2.3 | PFEA | 1.3 | 1.7 | 1.9 | 3.1 | 1.8 | 1.9 | 3.2 | 5.1 | .3 | |
| 224.0 | 500.0 | 26.20 | 492.0 | 51.00 | 5.200 | 781.0 | 123.0 | 16.30 | 2.680 | AC1 | 91.20 | 19.50 | 2.960 | .701 | 14.00 | 3.410 | .723 | .302 | 198.0 | |
| 0.0 | 0.0 | -.1 | 0.0 | 0.0 | 0.0 | 0.0 | .1 | 0.0 | -.1 | AC2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | .2 | 0.0 | -.6 | .3 | |
| 224.0 | 500.0 | 26.19 | 492.0 | 51.00 | 5.200 | 781.0 | 123.1 | 16.30 | 2.679 | ACA | 91.20 | 19.50 | 2.960 | .701 | 14.00 | 3.413 | .723 | .301 | 198.3 | |
| 76.02 | 169.9 | 35.99 | 167.0 | 69.58 | 17.72 | 265.3 | 167.6 | 55.76 | 18.41 | RHO | 124.1 | 66.57 | 20.25 | 8.49 | 47.84 | 23.33 | 8.77 | 5.97 | 1.009 | DC CAL |
| .9 | 1.0 | 2.2 | .9 | 1.4 | 1.4 | 1.0 | 1.3 | 1.8 | 2.2 | PFE | 1.1 | 1.5 | 1.8 | 2.9 | 1.6 | 1.6 | 3.0 | 5.2 | -.150 | AC CAL |
| 12 | 6 | 61 | 6 | 21 | 76 | 4 | 8 | 31 | 120 | MCF | 9 | 23 | 86 | 347 | 34 | 71 | 348 | 880 | | |
| 0.0 | 0.0 | .2 | 0.0 | .1 | 1.5 | 0.0 | 0.0 | .3 | 2.5 | CPFE | .0 | .2 | 2.2 | 10.4 | .4 | 1.9 | 10.1 | 23.0 | | |
| .9 | 1.0 | 2.0 | .9 | 1.4 | -.1 | 1.0 | 1.3 | 1.4 | -.3 | CCPFE | 1.1 | 1.3 | -.5 | -7.5 | 1.3 | -.2 | -7.0 | -17.8 | | |
| 12 | 6 | 54 | 6 | 19 | -6 | 4 | 8 | 26 | -18 | CCMCF | 9 | 20 | -24 | -882 | 26 | -9 | -798 | -2976 | | |

BUSINESS FORMS PRINTING COMPANY BLUE SPACE BAR ENGINEERED FOR HIGH SPEED PRINTERS

JOB 482 LINE 8 SPREAD 1

LOOKING W DATE Jan 20, 70 A= 1000 feet

CENTER 60.0 LABEL S/S FREQ. 1.0 - 0.1

COUPLING yes

1-22-70
MD

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Baqdad 482-70
LINE 8 HALF 5 SP. 1 DATE 1-20

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 4-5 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 |
| RECEIVE | 60-50 | 50-40 → | | 40-30 | → | | 30-20 | → | | |
| RANGE | 10 | 10 | 1.0 | 10 | 1.0 | 0.1 | 10 | 1.0 | 0.1 | 0.1 |
| DC 1 .1 | 0.9 | 0.8 | 1.1 | 0.8 | 1.3 | 3.6 | 1.0 | 1.2 | 1.7 | 3.0 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 1.0 | 235. | 229. | 26.6 | 404. | 28.6 | 6.43 | 606. | 45.9 | 6.36 | 2.37 |
| AC 2 1.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | -0.1 | 0.0 |
| AC AVG. | | | | | | | | | | |
| S.P. | -8.4 | -4.3 → | | 6.4 | → | | 0.0 | → | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bagdad 482-70
LINE 8 HALF 5 SP. 1 DATE 1-20

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 | | 3-4 |
| RECEIVE | 20-10 → | | | → | 10-0 → | | | → | | cal |
| RANGE | 1.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.01 | | |
| DC 1 .1 | 1.3 | 1.8 | 3.7 | 4.2 | 1.8 | 3.4 | 4.8 | 6.8 | | 0.0 |
| DC 2 | | | | | | | | | | |
| DC 3 | Receiver (20) is at Bm | | | | | | | | | |
| DC 4 | 4520 | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | This side So 34° W | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 1.0 | 61.6 | 7.82 | 2.50 | 1.36 | 7.33 | 2.10 | 1.25 | 0.782 | | 1.74 |
| AC 2 1.0 | 0.0 | 0.0 | 0.0 | -0.1 | 0.0 | 0.0 | -0.2 | 0.0 | | 0.0 |
| AC AVG. | | | | | | | | | | |
| S.P. | 11.3 → | | | → | 16.1 → | | | → | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

PAGE 1

HEINRICHS GEOEXPLORATION CO.

# I. P. SENDER NOTES

PROJECT BAGDAD

LINE 8 HALF S SP. 1 DATE 1/20

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 4-5 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 |
| RECEIVE | 60 | 50 | — | 40 | — | — | 30 | — | — | — |
| RANGE | HIGH | " | " | ~~HIGH~~ | " | " | " | " | " | HIGH |
| VOLTAGE | 280 | " | " | 380 | 280 | " | 380 | " | 280 | 280 |
| CURRENT | 9.0A | " | " | " | " | " | " | " | " | 9.0A |
| SEND | 1-2 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 | CAL | |
| RECEIVE | 20 | — | — | — | 10 | — | — | — | | |
| RANGE | HIGH | " | " | " | " | " | " | HIGH | | |
| VOLTAGE | 380 | " | 280 | " | 380 | " | 280 | 280 | | |
| CURRENT | 9.0A | " | " | " | " | " | " | 9.0A | | |

FREQUENCIES _____ _____

SENDER NO.

OPERATOR

RECEIVER NO.

OPERATOR

COMMENTS:

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Baadad 482-70
LINE 8 HALF N SP. 1 DATE 1-21

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 1-2 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 |
| RECEIVE | 60-70 | 70-80 | → | 80-90 | → | → | 90-100 | → | → | → |
| RANGE | 10 | 10 | 1.0 | 10 | 1.0 | 0.1 | 10 | 1.0 | 0.1 | 0.0 |
| DC 1 1 | 0.4 | 0.8 | 1.2 | 1.0 | 1.7 | 1.8 | 0.6 | 1.2 | 1.8 | 3.2 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 1.0 | 228. | 230. | 26.1 | 576. | 34.9 | 7.03 | 492. | 90.3 | 8.66 | 3.00 |
| AC 2 1.0 | -0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AC AVG. | | | | | | | | | | |
| S.P. | +5.4 | 2.0 | → | 18.6 | → | → | 10.1 | → | → | → |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bagdad 482-70
LINE 8 HALF N SP. 1 DATE 1-21

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | | 2-3 |
| RECEIVE | 100-110 → | | | | 110-120 → | | | | | cal |
| RANGE | 1.0 | 1.0 | 0.1 | 0.1 | 1.0 | 0.1 | 0.01 | 0.01 | | 10 |
| DC 1 .1 | 1.0 | 1.8 | 3.0 | 4.9 | 1.9 | 2.8 | 4.8 | 6.3 | | 0.0 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 1.0 | ~~[illegible]~~ 22.3 | 19.6 | 3.08 | 1.55 | 10.5 | 3.25 | 0.915 | 0.593 | | 198. |
| AC 2 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1 | | 0.0 |
| AC AVG. | | | | | | | | | | |
| S.P. | 1.4 → | | | | 2.1 → | | | | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

PAGE

HEINRICHS GEOEXPLORATION CO.

# I. P. SENDER NOTES

PROJECT Bagdad 482-70

LINE 8 HALF N SP. 1 DATE 1/21

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 1-2 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 |
| RECEIVE | 60.0 | 70.0 | — | 80.0 | — | — | 90.0 | — | — | — |
| RANGE | HIGH | " | " | " | " | " | " | " | " | HIGH |
| VOLTAGE | 400 | " | 400 | 300 | 400 | " | 280 | 300 | 400 | 400 |
| CURRENT | 9.0A | " | " | " | " | " | " | " | " | 9.0A |
| SEND | 4-5 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | CAL | |
| RECEIVE | 100.0 | — | — | — | 110.0 | — | — | — | 2-3 | |
| RANGE | HIGH | " | " | " | " | " | " | HIGH | HIGH | |
| VOLTAGE | 280 | 300 | 400 | " | 280 | 300 | 400 | 400 | 80 | |
| CURRENT | 9.0A | " | " | " | " | " | " | 9.0A | 2.0A | |

FREQUENCIES _____ _____

SENDER NO.

OPERATOR

RECEIVER NO.

OPERATOR

COMMENTS:

HEINRICHS GEOEX JOB 482-69 LINE 8 SPREAD 1 LOOKING W 1-20-70 A= 1000 FEET

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | I | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 2.000 | |
| 9 | 8 | 11 | 8 | 13 | 36 | 10 | 12 | 17 | 30 | DC | 13 | 18 | 37 | 42 | 18 | 34 | 48 | 68 | 0 | LEFT |
| 9 | 8 | 11 | 8 | 13 | 36 | 10 | 12 | 17 | 30 | | 13 | 18 | 37 | 42 | 18 | 34 | 48 | 68 | 0 | SIDE |
| 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | N | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | | |
| .9 | .8 | 1.1 | .8 | 1.3 | 3.6 | 1.0 | 1.2 | 1.7 | 3.0 | PFEA | 1.3 | 1.8 | 3.7 | 4.2 | 1.8 | 3.4 | 4.8 | 6.8 | 0.0 | |
| 235.0 | 229.0 | 26.60 | 404.0 | 28.60 | 6.430 | 606.0 | 45.90 | 6.360 | 2.370 | AC1 | 61.10 | 7.820 | 2.500 | 1.360 | 7.330 | 2.100 | 1.250 | .782 | 198.0 | |
| .1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | .2 | 0.0 | -.1 | 0.0 | AC2 | 0.0 | 0.0 | 0.0 | -.1 | 0.0 | 0.0 | -.2 | 0.0 | 0.0 | |
| 235.1 | 229.0 | 26.60 | 404.0 | 28.60 | 6.430 | 606.6 | 45.90 | 6.357 | 2.370 | ACA | 61.10 | 7.820 | 2.500 | 1.359 | 7.330 | 2.100 | 1.249 | .782 | 198.0 | |
| 79.84 | 77.72 | 36.22 | 137.1 | 39.02 | 22.43 | 206.1 | 62.56 | 21.78 | 16.44 | RHO | 83.36 | 26.80 | 17.46 | 16.70 | 25.12 | 14.62 | 15.44 | 15.75 | 1.010 | DC CAL |
| .8 | .8 | 1.1 | .8 | 1.3 | 3.6 | .9 | 1.2 | 1.7 | 3.0 | PFE | 1.3 | 1.8 | 3.7 | 4.2 | 1.8 | 3.4 | 4.9 | 6.8 | -0.000 | AC CAL |
| 11 | 10 | 30 | 6 | 33 | 161 | 4 | 19 | 80 | 182 | MCF | 16 | 67 | 212 | 254 | 72 | 233 | 317 | 432 | | |
| 0.0 | 0.0 | .2 | 0.0 | .2 | 1.1 | 0.0 | .1 | 1.1 | 2.9 | CPFE | .1 | .8 | 2.7 | 4.6 | .9 | 3.4 | 5.0 | 7.2 | | |
| .8 | .8 | .9 | .8 | 1.1 | 2.5 | .9 | 1.1 | .6 | .1 | CCPFE | 1.2 | 1.0 | 1.0 | -.3 | .9 | .0 | -.1 | -.4 | | |
| 11 | 10 | 24 | 6 | 28 | 113 | 4 | 17 | 29 | 5 | CCMCF | 15 | 36 | 57 | -20 | 35 | 1 | -10 | -28 | | |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | I | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 2.000 | |
| 4 | 8 | 12 | 10 | 17 | 18 | 6 | 12 | 18 | 32 | DC | 10 | 18 | 30 | 49 | 19 | 28 | 48 | 63 | 0 | RIGHT |
| 4 | 8 | 12 | 10 | 17 | 18 | 6 | 12 | 18 | 32 | | 10 | 18 | 30 | 49 | 19 | 28 | 48 | 63 | 0 | SIDE |
| 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | N | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | | |
| .4 | .8 | 1.2 | 1.0 | 1.7 | 1.8 | .6 | 1.2 | 1.8 | 3.2 | PFEA | 1.0 | 1.8 | 3.0 | 4.9 | 1.9 | 2.8 | 4.8 | 6.3 | 0.0 | |
| 228.0 | 230.0 | 26.10 | 576.0 | 34.90 | 7.030 | 492.0 | 90.30 | 8.660 | 3.000 | AC1 | 82.30 | 19.60 | 3.080 | 1.550 | 10.50 | 3.250 | .915 | .593 | 198.0 | |
| -.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | AC2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -.1 | 0.0 | |
| 227.7 | 230.0 | 26.10 | 576.0 | 34.90 | 7.030 | 492.0 | 90.30 | 8.660 | 3.000 | ACA | 82.30 | 19.60 | 3.080 | 1.550 | 10.50 | 3.250 | .915 | .593 | 198.0 | |
| 77.07 | 78.06 | 35.57 | 195.9 | 47.80 | 24.10 | 166.7 | 123.1 | 29.68 | 20.85 | RHO | 112.0 | 67.18 | 21.36 | 19.16 | 36.03 | 22.50 | 11.30 | 11.89 | 1.010 | DC CAL |
| .5 | .8 | 1.2 | 1.0 | 1.7 | 1.8 | .6 | 1.2 | 1.8 | 3.2 | PFE | 1.0 | 1.8 | 3.0 | 4.9 | 1.9 | 2.8 | 4.8 | 6.3 | -0.000 | AC CAL |
| 7 | 10 | 34 | 5 | 36 | 75 | 4 | 10 | 61 | 153 | MCF | 9 | 27 | 140 | 256 | 53 | 124 | 425 | 534 | | |
| 0.0 | 0.0 | .2 | 0.0 | .2 | 1.0 | 0.0 | .0 | .7 | 2.2 | CPFE | .0 | .2 | 2.1 | 3.9 | .6 | 2.0 | 7.4 | 10.2 | | |
| .5 | .8 | 1.0 | 1.0 | 1.5 | .8 | .6 | 1.2 | 1.1 | 1.0 | CCPFE | 1.0 | 1.6 | .9 | 1.0 | 1.3 | .8 | -2.6 | -3.8 | | |
| 7 | 10 | 27 | 5 | 32 | 34 | 4 | 9 | 36 | 50 | CCMCF | 8 | 23 | 43 | 54 | 37 | 37 | -230 | -322 | | |

BUSINESS FORMS PRINTING COMPANY ENGINEERED FOR HIGH SPEED PRINTERS

JOB 482 LINE 9 SPREAD 1

LOOKING N20W DATE Feb 12, 70 A= 1000 feet

CENTER 0.0 LABEL W / E FREQ. 1.0 - 0.1

COUPLING yes

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bagdad 482-70
LINE 9 HALF W SP. 1 DATE 2-12

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 4-5 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 |
| RECEIVE | 0-10 W | 10-20 | W → | 20-30 | W → | | 30-40 | W → | | |
| RANGE | 10 | 10 | 1.0 | 10 | 1.0 | 1.0 | 10 | 1.0 | 1.0 | 1.0 |
| DC 1 | 1.0 | 0.4 | 0.9 | 0.5 | 0.4 | 1.1 | 0.4 | 0.6 | 0.9 | 1.6 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 | 480. | 250. | 66.2 | 201. | 39.6 | 18.8 | 188. | 50.1 | 20.2 | 15.1 |
| AC 2 | 0.0 | -0.2 | 0.0 | 0.1 | -0.1 | -0.1 | -0.1 | 0.0 | 0.0 | -0.2 |
| AC AVG. | | | | | | | | | | |
| S.P. | 9.3 | 9.7 → | | 1.0 → | | | | | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Baqdad 482-70
LINE 9 HALF W SP. 1 DATE 2-12

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 | | 1-2 |
| RECEIVE | 40-50 W → | | | | 50-60 W → | | | | | cal |
| RANGE | 1.0 | 1.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | 10 |
| DC 1 | 0.4 | 0.6 | 0.6 | 1.9 | 0.3 | 0.6 | 0.8 | 2.4 | | 0.1 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 | 30.1 | 15.9 | 8.45 | 6.90 | 10.43 | 9.50 | 5.84 | 4.88 | | 195. |
| AC 2 | 0.0 | 0.1 | 0.0 | -0.1 | -0.1 | 0.1 | 0.0 | 0.0 | | 0.0 |
| AC AVG. | | | | | | | | | | |
| S.P. | 15.1 → | | | | 6.4 → | | | | | — |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

PAGE

HEINRICHS GEOEXPLORATION CO.

# I. P. SENDER NOTES

PROJECT Bagdad 482

LINE 9 HALF W SP. 1 DATE 2-12-70

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 4-5 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 |
| RECEIVE | 0-10W | 10W — | — 20W | 20W — | — | — 30W | 30W — | — | — | 40W |
| RANGE | 300X30 | 300X30 | 300X30 | 300X30 | 300X30 | 300X30 | 300X30 | 300X30 | 300X30 | 300X30 |
| VOLTAGE | 400 | 260 | 400 | 230 | 260 | 400 | 420 | 230 | 260 | 400 |
| CURRENT | 9.0A | 9.0A | 9.0A | 9.0A | 9.0A | 9.0A | 9.0A | 9.0A | 9.0A | 9.0A |
| SEND | 1-2 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 | | 1-2 |
| RECEIVE | 40W — | — | — | — 50W | 50W — | — | — | — 60W | | CA 1 |
| RANGE | 317X30 | 317X30 | 317X30 | 317X30 | 317X30 | 317X30 | 317X30 | 317X30 | | 10X200 |
| VOLTAGE | 430 | 240 | 270 | 410 | 430 | 240 | 270 | 410 | | 90 |
| CURRENT | 9.5A | 9.5A | 9.5A | 9.5A | 9.5A | 9.5A | 9.5A | 9.5A | | 2.0A |

FREQUENCIES 1.0 0.1

SENDER NO. MK.4 66445

OPERATOR DJT

RECEIVER NO. MK.4C

OPERATOR D.C.

COMMENTS:

Bears N 70 E

PAGE 1

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bagdad 982-70
LINE 9 HALF E SP. 1 DATE 2-11

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 1-2 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 |
| RECEIVE | 0-10E | 10-20E → | | 20-30 E → | | | 30-40E → | | | |
| RANGE | 10 | 10 | 1.0 | 10 | 1.0 | 1.0 | 10 | 1.0 | 1.0 | 0.1 |
| DC 1 | 0.6 | 0.9 | 0.8 | 0.9 | 1.1 | 1.2 | 0.2 | 0.3 | 0.6 | 0.4 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | Sta | 3000 | E is | on - |
| DC 5 | | | | | | | E | edge of | canyon | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 | 219. | 419. | 57.9 | 380. | 84.5 | 18.2 | 277. | 55.1 | 22.3 | 8.00 |
| AC 2 | 0.0 | 0.0 | -0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AC AVG. | | | | | | | | | | |
| S.P. | 0.4 | 14.8 → | | -0.6 → | | | -9.7 → | | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Baqdad 482-70
LINE 9 HALF E SP. E DATE 2-11

PAGE 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | | 4-5 |
| RECEIVE | 40-50 E → | | | | 50-60 E → | | | | | cal |
| RANGE | 1.0 | 1.0 | 1.0 | 0.1 | 1.0 | 1.0 | 0.1 | 0.1 | | 10 |
| DC 1 | 3.4 | 3.7 | 4.2 | 4.3 | 0.9 | 1.4 | 1.9 | 2.3 | | 0.1 |
| DC 2 | | | | | | | | | | |
| DC 3 | Fence at 3850 E | | | | | | | | | |
| DC 4 | running due N-S? | | | | | | | | | |
| DC 5 | | | | 40 E P Line | | | | | | |
| DC 6 | | | | Fence | | | | | | |
| DC 7 | | | Road | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 | 82.2 | 22.9 | 11.3 | 3.45 | 42.7 | 13.9 | 7.71 | 2.48 | | 198. |
| AC 2 | 0.0 | 0.1 | -0.2 | 0.0 | 0.0 | 0.0 | 0.0 | -0.4 | | 0.1 |
| AC AVG. | | | | | | | | | | |
| S.P. | 15.4 → | | | | 13.7 → | | | | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | | | | | | | | | | |

HEINRICHS GEOEXPLORATION CO.

# I. P. SENDER NOTES

PAGE 1

PROJECT Bagdad 482

LINE 9 HALF E SP. 1 DATE 2-11

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 1-2 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 |
| RECEIVE | 0-10E | 10E-20E | | 20E-30E | → | | 30E-40E | → | | |
| RANGE | 267x30 | 267x30 | 267x30 | 267x30 | 267x30 | 267x30 | 200x30 | 200x30 | 200x30 | 267x30 |
| VOLTAGE | 260 | 200 | 260 | 230 | 200 | 360 | 260 | 170 | 150 | 360 |
| CURRENT | 8.0A | 8.0A | 8.0A | 8.0A | 8.0A | 8.0A | 6.0A | 6.0A | 6.0A | 8.0A |
| SEND | 4-5 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | | 4-5 |
| RECEIVE | 40E-50E | | | → | 50E-60E | | | → | | cal |
| RANGE | 267x30 | 267x30 | 267x30 | 267x30 | 267x30 | 267x30 | 267x30 | 267x30 | | 200x10 |
| VOLTAGE | 340 | 230 | 200 | 360 | 340 | 230 | 200 | 360 | | 80 |
| CURRENT | 8.0A | 8.0A | 8.0A | 8.0A | 8.0A | 8.0A | 8.0A | 8.0A | | 2.0A |

FREQUENCIES 1.0 0.1

SENDER NO. 6644-S

OPERATOR [illegible]

RECEIVER NO. 19691-S

OPERATOR [illegible]

COMMENTS: Had Noise in sender high pitched sounded like blower but WASNT AS I ONLY heard iT when sending. sTopped by iTself

HEINRICHS GEOEX JOB 482 LINE 9 SPREAD 1 LOOKING N 20 W 2-12-70 A= 1000 FEET

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | I | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 2.000 | |
| 10 | 4 | 9 | 5 | 4 | 11 | 4 | 6 | 9 | 16 | DC | 4 | 6 | 6 | 19 | 3 | 6 | 8 | 24 | 1 | LEFT |
| 10 | 4 | 9 | 5 | 4 | 11 | 4 | 6 | 9 | 16 | | 4 | 6 | 6 | 19 | 3 | 6 | 8 | 24 | 1 | SIDE |
| 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | N | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | | |
| 1.0 | .4 | .9 | .5 | .4 | 1.1 | .4 | .6 | .9 | 1.6 | PFEA | .4 | .6 | .6 | 1.9 | .3 | .6 | .8 | 2.4 | .1 | |
| 480.0 | 250.0 | 66.20 | 201.0 | 39.60 | 18.80 | 188.0 | 50.10 | 20.20 | 15.10 | AC1 | 30.10 | 15.90 | 8.450 | 6.950 | 10.43 | 9.500 | 5.840 | 4.880 | 195.0 | |
| 0.0 | -.2 | 0.0 | .1 | -.1 | -.1 | -.1 | 0.0 | 0.0 | -.2 | AC2 | 0.0 | .1 | 0.0 | -.1 | -.1 | .1 | 0.0 | 0.0 | 0.0 | |
| 480.0 | 249.7 | 66.20 | 201.1 | 39.58 | 18.79 | 187.9 | 50.10 | 20.20 | 15.08 | ACA | 30.10 | 15.91 | 8.450 | 6.947 | 10.42 | 9.505 | 5.840 | 4.880 | 195.0 | |
| 165.6 | 85.73 | 91.25 | 68.99 | 54.32 | 64.92 | 64.47 | 68.86 | 69.61 | 104.8 | RHO | 41.29 | 54.63 | 58.07 | 84.66 | 35.73 | 65.28 | 70.37 | 95.58 | 1.026 | DC CAL |
| .9 | .4 | .8 | .3 | .3 | 1.0 | .3 | .5 | .8 | 1.6 | PFE | .3 | .4 | .5 | 1.8 | .2 | .4 | .7 | 2.3 | -.100 | AC CAL |
| 5 | 5 | 9 | 5 | 6 | 16 | 5 | 7 | 11 | 15 | MCF | 7 | 8 | 9 | 22 | 7 | 7 | 10 | 24 | | |
| 0.0 | 0.0 | .1 | 0.0 | .1 | .3 | .0 | .1 | .2 | .2 | CPFE | .2 | .3 | .6 | .6 | .6 | .5 | .7 | .7 | | |
| .9 | .4 | .7 | .3 | .2 | .8 | .3 | .4 | .6 | 1.4 | CCPFE | .1 | .1 | -.1 | 1.3 | -.3 | -.0 | -.0 | 1.6 | | |
| 5 | 5 | 8 | 5 | 4 | 12 | 5 | 6 | 8 | 13 | CCMCF | 2 | 2 | -1 | 15 | -9 | -0 | -0 | 17 | | |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | 6.000 | 6.000 | 6.000 | 8.000 | I | 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | 2.000 | |
| 6 | 9 | 8 | 9 | 11 | 12 | 2 | 3 | 6 | 4 | DC | 34 | 37 | 42 | 43 | 9 | 14 | 19 | 23 | 1 | RIGHT |
| 6 | 9 | 8 | 9 | 11 | 12 | 2 | 3 | 6 | 4 | | 34 | 37 | 42 | 43 | 9 | 14 | 19 | 23 | 1 | SIDE |
| 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | N | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | | |
| .6 | .9 | .8 | .9 | 1.1 | 1.2 | .2 | .3 | .6 | .4 | PFEA | 3.4 | 3.7 | 4.2 | 4.3 | .9 | 1.4 | 1.9 | 2.3 | .1 | |
| 219.0 | 419.0 | 57.90 | 380.0 | 84.50 | 18.20 | 277.0 | 55.10 | 22.30 | 8.000 | AC1 | 82.20 | 22.90 | 11.30 | 3.450 | 42.70 | 13.90 | 7.710 | 2.480 | 198.0 | |
| 0.0 | 0.0 | -.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | AC2 | 0.0 | .1 | -.2 | 0.0 | 0.0 | 0.0 | 0.0 | -.4 | .1 | |
| 219.0 | 419.0 | 57.87 | 380.0 | 84.50 | 18.20 | 277.0 | 55.10 | 22.30 | 8.000 | ACA | 82.20 | 22.91 | 11.29 | 3.450 | 42.70 | 13.90 | 7.710 | 2.475 | 198.1 | |
| 83.37 | 160.0 | 88.34 | 145.1 | 129.3 | 69.70 | 140.0 | 111.5 | 113.2 | 60.79 | RHO | 128.7 | 89.87 | 89.11 | 47.66 | 163.0 | 106.7 | 104.1 | 53.76 | 1.010 | DC CAL |
| .5 | .8 | .8 | .8 | 1.0 | 1.1 | .1 | .2 | .5 | .3 | PFE | 3.3 | 3.6 | 4.2 | 4.2 | .8 | 1.3 | 1.8 | 2.4 | -.050 | AC CAL |
| 7 | 5 | 9 | 6 | 8 | 16 | 1 | 2 | 5 | 6 | MCF | 26 | 40 | 48 | 89 | 5 | 13 | 18 | 46 | | |
| 0.0 | 0.0 | .1 | 0.0 | .0 | .2 | 0.0 | .0 | .1 | .5 | CPFE | .0 | .2 | .3 | 1.2 | .1 | .2 | .4 | 1.5 | | |
| .5 | .8 | .7 | .8 | 1.0 | .9 | .1 | .2 | .4 | -.2 | CCPFE | 3.3 | 3.4 | 3.9 | 3.1 | .8 | 1.1 | 1.4 | .9 | | |
| 7 | 5 | 8 | 6 | 8 | 13 | 1 | 2 | 4 | -3 | CCMCF | 26 | 38 | 44 | 64 | 5 | 10 | 14 | 17 | | |

BUSINESS FORMS PRINTING COMPANY BLUE SHADE RAY ENGINEERED FOR HIGH SPEED PRINTERS

JOB 482 LINE 10 SPREAD 1

LOOKING N DATE Feb 13, 70 A= 1000 feet

CENTER 0.0 LABEL W/E FREQ. 1.0 - 0.1

COUPLING Yes

2-17-70
MD

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Baghdad 482-70
LINE 10 HALF W SP. 1 DATE 2-13

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 4-5 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 |
| RECEIVE | 0-10W | 10-20W | → | 20-30 | W | → | 30-40 | W | → | |
| RANGE | 1.0 | 1.0 | 1.0 | 10 | 1.0 | 1.0 | 10 | 1.0 | 1.0 | 1.0 |
| DC 1 | 0.8 | 0.8 | 0.9 | 0.3 | 0.9 | 1.0 | 0.6 | 0.7 | 1.0 | 1.3 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 | 94.6 | 94.9 | 30.6 | 140. | 34.3 | 18.1 | 257. | 52.8 | 21.8 | 12.9 |
| AC 2 | 0.0 | 0.0 | 0.0 | -0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AC AVG. | | | | | | | | | | |
| S.P. | 2.2 | 5.7 | → | 2.6 | → | | 6.3 | → | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | 1.2K | .2K | → | 0.7K | → | | 1.3K | → | | |

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Baadad 482-70
LINE 10 HALF W SP. 1 DATE 2-13

PAGE 4

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 | | 1-2 |
| RECEIVE | 40-50 W → | | | | 50-60 W → | | | | | cal |
| RANGE | 1.0 | 1.0 | 1.0 | 0.1 | 1.0 | 1.0 | 0.1 | 0.1 | | 10 |
| DC 1 | 0.9 | 1.2 | 1.4 | 1.7 | 1.3 | 1.5 | 1.8 | 2.4 | | -0.1 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 | 68.9 | 29.8 | 14.7 | 9.83 | 30.8 | 16.5 | 9.44 | 6.61 | | 191. |
| AC 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | | 0.0 |
| AC AVG. | | | | | | | | | | |
| S.P. | 4.8 → | | | | 15.2 → | | | | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | 3.0K → | | | | 0.3K → | | | | | |

HEINRICHS GEOEXPLORATION CO.

# I. P. SENDER NOTES

PROJECT BAGDAD

LINE 10 HALF W SP. 1 DATE 2-13-70

PAGE 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 4-5 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 |
| RECEIVE | 0.0 | 10.0W | — | 20.0 | — | — | 30.0 | — | — | — |
| RANGE | HIGH | " | " | " | " | " | " | " | " | HIGH |
| VOLTAGE | 320 | 340 | 320 | 320 | 340 | 320 | 440 | 320 | 340 | 320 |
| CURRENT | 7.0A | " | " | " | " | " | " | " | " | 7.0A |
| SEND | 1-2 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 | CAL | |
| RECEIVE | 40.0 | — | — | — | 50.0 | — | — | — | 1-2 | |
| RANGE | HIGH | " | " | " | " | " | " | HIGH | HIGH | |
| VOLTAGE | 440 | 320 | 340 | 320 | 440 | 320 | 340 | 320 | 120 | |
| CURRENT | 7.0A | " | " | " | " | " | " | 7.0A | 2.0 | |

FREQUENCIES _____ _____

SENDER NO.

OPERATOR

RECEIVER NO.

OPERATOR

COMMENTS:

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Baadad 482-70
LINE 10 HALF E SP. 1 DATE 2-13

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 1-2 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 |
| RECEIVE | 0-10E | 10-20 | E → | 20-30 | E → | | 30-40 | E → | | |
| RANGE | 1.0 | 1.0 | 1.0 | 10 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.1 |
| DC 1 | 0.7 | 0.7 | 0.9 | 0.6 | 0.9 | 1.0 | 0.8 | 0.8 | 0.8 | 1.0 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 | 93.2 | 96.7 | 29.6 | 151. | 32.0 | 16.2 | 76.4 | 20.2 | 10.6 | 7.04 |
| AC 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| AC AVG. | | | | | | | | | | |
| S.P. | 12.4 | -2.2 → | | 15.5 → | | | 1.4 → | | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | — | 1.2K → | | 1.2K → | | | 1.0K → | | | |

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Baqdad 482-70
LINE 10 HALF E SP. 1 DATE 2-13

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | | 4-5 |
| RECEIVE | 40 - 50 E → | | | | 50 - 60 E → | | | | | Cal |
| RANGE | 1.0 | 1.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | 10 |
| DC 1 | 0.6 | 0.7 | 1.1 | 1.5 | 0.7 | 1.2 | 1.4 | 1.8 | | -0.1 |
| DC 2 | | | | | 0.6 | 1.9 1.5 | 2.2 1.0 | 2.6 1.9 | | |
| DC 3 | | | | | 1.3 | 1.5 0.5 | 1.5 2.5 | 2.5 2.4 | | |
| DC 4 | | | | | 0.7 | 0.4 2.8 | 2.5 2.7 | 2.9 0.4 | | |
| DC 5 | | | | | 1.5 | 2.1 0.4 | 1.6 1.7 | 1.3 3.9 | | |
| DC 6 | | | | | 0.9 | 2.5 1.4 | 2.1 1.9 | 2.0 2.2 | | |
| DC 7 | | | | | 0.9 | 0.9 1.9 | 2.4 2.9 | 1.9 2.2 | | |
| DC 8 | | | | | 0.8 | 1.3 2.3 | 3.0 0.9 | 3.4 0.7 | | |
| DC AVG. | | | | | | | | | | |
| AC 1 | 22.7 | 10.9 | 7.10 | 4.98 | 8.92 | 5.01 | 3.45 | 2.58 | | 189. |
| AC 2 | 0.0 | -0.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.2 | -0.1 | | 0.0 |
| AC AVG. | | | | | | | | | | |
| S.P. | 5.5 → | | | | 6.8 → | | | | | |
| AC NOISE | | | | | Ground Fence ~ 55E nearly ⊥ | | | | | |
| POT RES. | .2K → | | | | .4K → | | | | | |

PAGE 1

HEINRICHS GEOEXPLORATION CO.

# I. P. SENDER NOTES

PROJECT BAGDAD

LINE 1G HALF E SP. 1 DATE 2-13-70

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 1-2 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 |
| RECEIVE | 0.0 | 10E | — | 30.0 | — | — | 30.0 | — | — | — |
| RANGE | HIGH | " | " | " | " | " | " | " | " | HIGH |
| VOLTAGE | 440 | 320 | 440 | 340 | 320 | 440 | 320 | 340 | 320 | 440 |
| CURRENT | 7.0A | 7.0 | " | " | " | " | " | " | " | 7.0A |
| SEND | 4-5 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | CAL. | |
| RECEIVE | 40.0 | — | — | — | 50.0 | — | — | — | 4-5 | |
| RANGE | HIGH | " | " | " | " | " | " | HIGH | HIGH | |
| VOLTAGE | 320 | 340 | 320 | 440 | 320 | 340 | 320 | 440 | 100 | |
| CURRENT | 7.0A | " | " | " | " | " | " | 7.0 | 2.0A | |

FREQUENCIES 1.0 0.1

SENDER NO. 6674-S

OPERATOR GC

RECEIVER NO. 19681 R

OPERATOR DC

COMMENTS:

HEINRICHS GEOEX JOB 482 LINE 10 SPREAD 1 LOOKING N 2-13-70 A= 1000 FEET

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | I | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 2.000 | |
| 8 | 8 | 9 | 3 | 9 | 10 | 6 | 7 | 10 | 13 | DC | 9 | 12 | 14 | 17 | 13 | 15 | 18 | 24 | -1 | LEFT |
| 8 | 8 | 9 | 3 | 9 | 10 | 6 | 7 | 10 | 13 | | 9 | 12 | 14 | 17 | 13 | 15 | 18 | 24 | -1 | SIDE |
| 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | N | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | | |
| .8 | .8 | .9 | .3 | .9 | 1.0 | .6 | .7 | 1.0 | 1.3 | PFEA | .9 | 1.2 | 1.4 | 1.7 | 1.3 | 1.5 | 1.8 | 2.4 | -.1 | |
| 94.60 | 94.90 | 30.60 | 140.0 | 34.30 | 18.10 | 257.0 | 52.80 | 21.80 | 12.90 | AC1 | 68.90 | 29.80 | 14.70 | 9.830 | 30.80 | 16.50 | 9.440 | 6.610 | 191.0 | |
| 0.0 | 0.0 | 0.0 | -.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | AC2 | 0.0 | 0.0 | 0.0 | 0.0 | .1 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 94.60 | 94.90 | 30.60 | 139.8 | 34.30 | 18.10 | 257.0 | 52.80 | 21.80 | 12.90 | ACA | 68.90 | 29.80 | 14.70 | 9.830 | 30.82 | 16.50 | 9.440 | 6.610 | 191.0 | |
| 42.84 | 42.97 | 55.48 | 63.08 | 62.19 | 82.12 | 116.1 | 95.54 | 98.91 | 117.4 | RHO | 124.9 | 135.5 | 133.9 | 157.2 | 140.2 | 150.5 | 151.1 | 170.3 | 1.047 | DC CAL |
| .9 | .9 | 1.0 | .5 | 1.0 | 1.1 | .7 | .8 | 1.1 | 1.4 | PFE | 1.0 | 1.3 | 1.5 | 1.8 | 1.3 | 1.6 | 1.9 | 2.5 | .100 | AC CAL |
| 21 | 21 | 18 | 9 | 16 | 13 | 6 | 8 | 11 | 12 | MCF | 8 | 10 | 11 | 11 | 10 | 11 | 13 | 15 | | |
| .1 | .1 | .1 | .0 | .1 | .2 | 0.0 | .1 | .1 | .2 | CPFE | .0 | .1 | .2 | .2 | .1 | .1 | .3 | .3 | | |
| .8 | .8 | .9 | .5 | .9 | .9 | .7 | .7 | 1.0 | 1.2 | CCPFE | 1.0 | 1.2 | 1.3 | 1.6 | 1.3 | 1.5 | 1.6 | 2.2 | | |
| 20 | 20 | 16 | 8 | 14 | 11 | 6 | 8 | 10 | 10 | CCMCF | 8 | 9 | 10 | 10 | 9 | 10 | 11 | 13 | | |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | I | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 7.000 | 2.000 | |
| 7 | 7 | 9 | 6 | 9 | 10 | 8 | 8 | 8 | 10 | DC | 6 | 7 | 11 | 15 | 7 | 12 | 14 | 18 | -1 | RIGHT |
| 7 | 7 | 9 | 6 | 9 | 10 | 8 | 8 | 8 | 10 | | 6 | 7 | 11 | 15 | 7 | 12 | 14 | 18 | -1 | SIDE |
| 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | N | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | | |
| .7 | .7 | .9 | .6 | .9 | 1.0 | .8 | .8 | .8 | 1.0 | PFEA | .6 | .7 | 1.1 | 1.5 | .7 | 1.2 | 1.4 | 1.8 | -.1 | |
| 93.20 | 96.70 | 29.60 | 151.0 | 32.00 | 16.20 | 76.40 | 20.20 | 10.60 | 7.040 | AC1 | 22.70 | 10.90 | 7.100 | 4.980 | 8.920 | 5.010 | 3.450 | 2.580 | 189.0 | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | .1 | 0.0 | 0.0 | 0.0 | AC2 | 0.0 | -.1 | 0.0 | .1 | 0.0 | 0.0 | .2 | -.1 | 0.0 | |
| 93.20 | 96.70 | 29.60 | 151.0 | 32.00 | 16.20 | 76.44 | 20.20 | 10.60 | 7.040 | ACA | 22.70 | 10.89 | 7.100 | 4.982 | 8.920 | 5.010 | 3.453 | 2.579 | 189.0 | |
| 42.61 | 44.21 | 54.23 | 68.96 | 58.63 | 74.28 | 34.96 | 36.97 | 48.51 | 64.56 | RHO | 41.47 | 49.83 | 65.17 | 80.31 | 40.78 | 46.03 | 55.58 | 66.77 | 1.058 | DC CAL |
| .8 | .8 | 1.0 | .7 | 1.0 | 1.1 | .8 | .9 | .9 | 1.1 | PFE | .7 | .8 | 1.2 | 1.5 | .8 | 1.3 | 1.4 | 1.9 | .100 | AC CAL |
| 19 | 18 | 18 | 10 | 17 | 15 | 24 | 24 | 19 | 17 | MCF | 17 | 17 | 18 | 19 | 20 | 28 | 25 | 29 | | |
| .1 | .0 | .1 | 0.0 | .1 | .2 | .1 | .2 | .4 | .5 | CPFE | .2 | .4 | .5 | .6 | .5 | .8 | 1.0 | 1.2 | | |
| .7 | .8 | .9 | .7 | .9 | .9 | .8 | .7 | .5 | .6 | CCPFE | .5 | .5 | .7 | 1.0 | .3 | .5 | .4 | .8 | | |
| 18 | 17 | 16 | 10 | 15 | 12 | 22 | 18 | 11 | 10 | CCMCF | 12 | 10 | 11 | 12 | 8 | 12 | 8 | 12 | | |

BUSINESS FORMS PRINTING COMPANY
BLUE SPACE BAR
ENGINEERED FOR HIGH SPEED PRINTERS

JOB 482 LINE 11 SPREAD 1

LOOKING W DATE Feb 14, 70 A= 1000 feet

CENTER 0.0 LABEL S / N FREQ. 1.0 -0.1

COUPLING yes

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bagdad 482-70
LINE 11 HALF S SP. 1 DATE 2-14

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 4-5 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 |
| RECEIVE | 0-10 S | 10-20 | S → | 20-30 | S → | | 30-40 | S → | | |
| RANGE | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.1 | 1.0 | 1.0 | 1.0 | 1.0 |
| DC 1 | 0.5 | 0.7 | 0.8 | 0.6 | 0.3 | 0.2 | 0.3 | 0.8 | 0.6 | 0.7 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | Fence w/ grounded | | | | | | | | |
| DC 5 | | steel posts at | | | | | | | | |
| DC 6 | | 1900' South | | line | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 | 68.6 | 237. | 28.0 | 37.4 | 28.9 | 9.46 | 91.7 | 19.8 | 27.6 | 10.9 |
| AC 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| AC AVG. | | | | | | | | | | |
| S.P. | 12.9 | -6.4 → | | -0.7 → | | | 31.6 → | | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | 2.2K | 0.8K → | | 2.9K → | | | 4K → | | | |

PAGE 4

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Baqdad 482-70
LINE 11 HALF S SP. 1 DATE 2-14

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 | | 1-2 |
| RECEIVE | 40-50 S → | | | | 50-60 S → | | | | | cal |
| RANGE | 1.0 | 1.0 | 1.0 | 0.1 | 1.0 | 1.0 | 1.0 | 0.1 | | 10 |
| DC 1 | 0.8 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.6 | 1.3 | | 0.0 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 | 36.6 | 14.8 | 21.5 | 9.01 | 25.9 | 12.1 | 18.2 | 8.0 | | 192. |
| AC 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.2 | -0.2 | -0.1 | | 0.0 |
| AC AVG. | | | | | | | | | | |
| S.P. | 26.5 → | | | | -11.9 → | | | | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | 6K → | | | | .7K → | | | | | |

HEINRICHS GEOEXPLORATION CO.

# I. P. SENDER NOTES

PAGE

PROJECT BAGDAD

LINE 11 HALF 5 SP. 1 DATE 2-14

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 4-5 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 |
| RECEIVE | 0.0 | 10.05 | — | 20.0 | — | — | 30.0 | — | — | — |
| RANGE | HIGH | " | " | " | " | " | " | " | " | HIGH |
| VOLTAGE | 380 | 260 | 380 | 200 | 260 | 380 | 360 | 200 | 260 | 380 |
| CURRENT | 8.0A | " | " | " | " | " | " | " | " | 8.0A |
| SEND | 1-2 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 | CAL. | |
| RECEIVE | 40.0 | — | — | — | 50.0 | — | — | — | 1-2 | |
| RANGE | HIGH | " | " | " | " | " | " | HIGH | HIGH | |
| VOLTAGE | 360 | 200 | 260 | 380 | 360 | 200 | 260 | 380 | 100 | |
| CURRENT | 8.0A | " | " | " | " | " | " | 8.0A | 2.0A | |

FREQUENCIES _____ _____

SENDER NO.

OPERATOR

RECEIVER NO.

OPERATOR

COMMENTS:

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bagdad 482-70
LINE 11 HALF N SP. 1 DATE 2-14

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 1-2 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 |
| RECEIVE | 0-10N | 10-20 | N → | 20-30 | N → | | 30-40 | N → | | → |
| RANGE | 10 | 1.0 | 1.0 | 1.0 | 1.0 | 0.1 | 1.0 | 1.0 | 0.1 | 0.1 |
| DC 1 | 0.4 | 0.5 | 0.8 | 0.7 | 0.9 | 0.8 | 0.4 | 0.4 | 0.5 | 0.8 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | on | Road | | | | |
| DC 4 | | | | | | | on Road | Leaves Road | | |
| DC 5 | | | | | | | | | at 3.5 | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 | 231. | 68.2 | 28.2 | 64.6 | 11.9 | 10.34 | 61.6 | 27.2 | 9.12 | 8.56 |
| AC 2 | 0.0 | 0.0 | -0.1 | 0.1 | -0.1 | 0.0 | 0.0 | 0.0 | 0.0 | |
| AC AVG. | | | | | | | | | | |
| S.P. | -15.9 | 5.9 → | | 18.8 → | | | 5.4 | | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | .8K | 1.2K → | | 1.0K → | | | 3K | | | |

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 482-70 Bagdad
LINE 11 HALF N SP. 1 DATE 2-14

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | | 4-5 |
| RECEIVE | 40-50 N → | | | | 50-60 N → | | | | | Cal |
| RANGE | 1.0 | 1.0 | 0.1 | 0.1 | 0.1 | | | | | 10.0 |
| DC 1 | 0.5 | 0.9 | 0.8 | (1) | 0.4 | | | | | 0.0 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 | 317.6 | 15.8 | 6.29 | 6.14 | 1.20 | | | | | 194. |
| AC 2 | 0.0 | 0.0 | 0.0 | 0.0 | 6.0 | | | | | 0.0 |
| AC AVG. | | | | | | | | | | |
| S.P. | 8.0 → | | | | | | | | | |
| AC NOISE | 0.0 | | | | | | | | | |
| POT RES. | 0.5K → | | | | 1.4K | | | | | |

PAGE

HEINRICHS GEOEXPLORATION CO.

# I. P. SENDER NOTES

PROJECT Baghdad 482

LINE 11 HALF N SP. 1 DATE 2-14-70

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 1-2 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 |
| RECEIVE | 00-10N | 10N | 20N | 28N | | 30N | 30N | | | 40N |
| RANGE | 267X30 | 267X30 | 267X30 | 267X30 | 267X30 | 267X30 | 267X30 | 267X30 | 267X30 | 267X30 |
| VOLTAGE | 360 | 200 | 360 | 270 | 200 | 360 | 380 | 270 | 200 | 360 |
| CURRENT | 8.0A | 8.0A | 8.0A | 8.0A | 8.0A | 8.0A | 8.0A | 8.0A | 8.0A | 8.0A |
| SEND | 4-5 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | | CAL |
| RECEIVE | 40N | | | 50N | 50N | | | 60N | | 4-5 |
| RANGE | 267X30 | 267X30 | 267X30 | 267X30 | | | | | | 200X10 |
| VOLTAGE | 380 | 270 | 200 | 360 | | | | | | 100 |
| CURRENT | 8.0A | 8.0A | 8.0A | 8.0A | | | | | | 2.0A |

FREQUENCIES 1.0 0.1

SENDER NO. MK4 6645

OPERATOR DJT

RECEIVER NO. MK4C

OPERATOR DC

COMMENTS: fix pot on sender so it will zero.

HEINRICHS GEOEX JOB 482-70 LINE 11 SPREAD 1 LOOKING W 2-14-70 A= 1000 FEET

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | I | 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | 2.000 | |
| 5 | 7 | 8 | 6 | 3 | 2 | 3 | 8 | 6 | 7 | DC | 8 | 10 | 10 | 10 | 10 | 10 | 16 | 13 | 0 | LEFT |
| 5 | 7 | 8 | 6 | 3 | 2 | 3 | 8 | 6 | 7 | | 8 | 10 | 10 | 10 | 10 | 10 | 16 | 13 | 0 | SIDE |
| 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | N | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | | |
| .5 | .7 | .8 | .6 | .3 | .2 | .3 | .8 | .6 | .7 | PFEA | .8 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.6 | 1.3 | 0.0 | |
| 68.60 | 237.0 | 28.00 | 37.40 | 28.90 | 9.460 | 91.70 | 19.80 | 27.60 | 10.90 | AC1 | 36.60 | 14.80 | 21.50 | 9.010 | 25.90 | 12.10 | 18.20 | 8.000 | 192.0 | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -.1 | 0.0 | 0.0 | 0.0 | 0.0 | AC2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -.2 | -.2 | -.1 | 0.0 | |
| 68.60 | 237.0 | 28.00 | 37.40 | 28.90 | 9.455 | 91.70 | 19.80 | 27.60 | 10.90 | ACA | 36.60 | 14.80 | 21.50 | 9.010 | 25.90 | 12.09 | 18.18 | 7.996 | 192.0 | |
| 26.93 | 93.23 | 44.10 | 14.70 | 45.29 | 37.03 | 35.93 | 31.18 | 108.5 | 85.75 | RHO | 57.64 | 58.39 | 169.6 | 124.4 | 102.2 | 95.48 | 252.8 | 177.3 | 1.042 | DC CAL |
| .5 | .7 | .8 | .6 | .3 | .2 | .3 | .8 | .6 | .7 | PFE | .8 | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 | 1.7 | 1.3 | -0.000 | AC CAL |
| 19 | 8 | 18 | 41 | 7 | 7 | 8 | 26 | 6 | 8 | MCF | 14 | 17 | 6 | 8 | 10 | 12 | 7 | 8 | | |
| .1 | 0.0 | .2 | .2 | .2 | .5 | .1 | .3 | .1 | .3 | CPFE | .1 | .3 | .1 | .3 | .1 | .3 | .1 | .3 | | |
| .4 | .7 | .6 | .4 | .1 | -.3 | .2 | .5 | .5 | .4 | CCPFE | .7 | .7 | .9 | .7 | .9 | .8 | 1.6 | 1.0 | | |
| 15 | 8 | 14 | 25 | 3 | -8 | 6 | 16 | 4 | 4 | CCMCF | 12 | 12 | 5 | 5 | 8 | 9 | 6 | 6 | | |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | I | 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | 8.000 | 2.000 | |
| 4 | 5 | 8 | 7 | 9 | 8 | 4 | 4 | 5 | 8 | DC | 5 | 9 | 8 | 11 | 4 | | | | 0 | RIGHT |
| 4 | 5 | 8 | 7 | 9 | 8 | 4 | 4 | 5 | 8 | | 5 | 9 | 8 | 11 | 4 | | | | 0 | SIDE |
| 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | N | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | | |
| .4 | .5 | .8 | .7 | .9 | .8 | .4 | .4 | .5 | .8 | PFEA | .5 | .9 | .8 | 1.1 | .4 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 231.0 | 68.20 | 28.20 | 64.60 | 11.90 | 10.34 | 61.60 | 27.20 | 9.120 | 8.560 | AC1 | 17.60 | 15.80 | 6.290 | 6.140 | 1.200 | 0.000 | 0.000 | 0.000 | 194.0 | |
| 0.0 | 0.0 | -.1 | .1 | -.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | AC2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 231.0 | 68.20 | 28.19 | 64.63 | 11.89 | 10.34 | 61.60 | 27.20 | 9.120 | 8.560 | ACA | 17.60 | 15.80 | 6.290 | 6.140 | 1.200 | 0.000 | 0.000 | 0.000 | 194.0 | |
| 89.66 | 26.50 | 43.96 | 25.15 | 18.57 | 40.29 | 20.91 | 42.23 | 35.43 | 66.72 | RHO | 27.35 | 61.63 | 49.02 | 83.99 | 4.66* | 000.0* | 000.0* | 000.0 | 1.031 | DC CAL |
| .4 | .5 | .8 | .6 | .9 | .8 | .4 | .4 | .5 | .8 | PFE | .5 | .9 | .8 | 1.1 | .4* | 000.0* | 000.0* | 000.0 | -0.000 | AC CAL |
| 4 | 19 | 19 | 26 | 51 | 20 | 17 | 9 | 14 | 12 | MCF | 18 | 15 | 16 | 13 | 86* | 0000.* | 0000.* | 0000. | | |
| 0.0 | .1 | .2 | .1 | .6 | .5 | .1 | . | .6 | .5 | CPFE | .4 | .3 | .7 | .6 | 7.8 | 0.0 | 0.0 | 0.0 | | |
| .4 | .4 | .7 | .5 | .3 | .3 | .3 | .2 | -.1 | .3 | CCPFE | .1 | .6 | .1 | .5 | -7.4* | 000.0* | 000.0* | 000.0 | | |
| 4 | 15 | 15 | 21 | 18 | 8 | 12 | 5 | -2 | 5 | CCMCF | 5 | 10 | 2 | 6 | -1596* | 0000.* | 0000.* | 0000. | | |

JOB 482 LINE 12 SPREAD 1

LOOKING N 60 W DATE Feb 25, 70 A= 1000 feet

CENTER 0.0 LABEL SW / NE FREQ. 1.0 - 0.1

COUPLING yes

3-2-70
RE

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bagdad 482-70
LINE 12 HALF SW SP. 1 DATE 2-25

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 4-5 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 |
| RECEIVE | 0-10S | 10-20 | S → | 20-30 S | → | | 30-40S | → | | |
| RANGE | 10.0 | 10.0 | 1.0 | 10.0 | 1.0 | 0.1 | 10.0 | 1.0 | 0.1 | 0.1 |
| DC 1 | 0.8 | 1.3 | 1.3 | 0.9 | 1.3 | 1.2 | 0.8 | 1.3 | 1.3 | 1.6 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 | 285. | 248. | 32.1 | 119. | 14.8 | 3.90 | 135. | 10.7 | 3.85 | 2.05 |
| AC 2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| AC AVG. | | | | | | | | | | |
| S.P. | -4.3 | 17.9 → | | -3.4 → | | | 13.2 → | | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | 1K | 1.6K → | | 2.1K → | | | 3.4K → | | | |

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bagdad 482-70
LINE 12 HALF SW SP. 1 DATE 2-25

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 | | 1-2 |
| RECEIVE | 40-50S → | | | | 50-60S → | | | | | cal |
| RANGE | 1.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.01 | | 10.0 |
| DC 1 | 1.1 | 0.9 | 1.6 | 1.9 | 1.4 | 1.0 | 1.7 | 2.0 | | 0.1 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | crosses road at | | | | |
| DC 5 | | | | | | 4500S | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | 6000 is 10' from | | | | |
| DC 8 | | | | | | edge of mesa | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 | 12.7 | 3.14 | 2.23 | 1.46 | 3.22 | 1.73 | 1.47 | 1.013 | | 197. |
| AC 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1 | 0.1 | | 0.1 |
| AC AVG. | | | | | | | | | | |
| S.P. | 0 0.8 → | | | | 13.1 → | | | | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | 2.2K → | | | | 1.01K → | | | | | |

HEINRICHS GEOEXPLORATION CO.

# I. P. SENDER NOTES

PROJECT 482-70 BAGDAD

LINE 12 HALF SW SP. 1 DATE 2/25

PAGE 1

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 4-5 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 |
| RECEIVE | 0-10 | 10-20 | → | 20-30 | → | → | 30-40 | → | → | → |
| RANGE | 200X30 | 200X30 | 200X30 | 200X30 | 200X30 | 200X30 | 200X30 | 200X30 | 200 30 | 200X30 |
| VOLTAGE | 300 | 260 | 310 | 360 | 260 | 310 | 420 | 360 | 260 | 310 |
| CURRENT | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| SEND | 1-2 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 | | CAL |
| RECEIVE | 40-50 | → | → | → | 50-60 | → | → | → | | 1-2 |
| RANGE | 200X30 | 200X30 | 200X30 | 200X30 | 200X30 | 200X30 | 200X30 | 200X30 | | |
| VOLTAGE | 420 | 360 | 260 | 320 | 420 | 360 | 260 | 300 | | |
| CURRENT | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | 2.0 |

FREQUENCIES 1.0 0.1

SENDER NO. 6644 5

OPERATOR BILL PAWELCZYK

RECEIVER NO.

OPERATOR DAVE CHAFFIN

COMMENTS: S 30° W

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 482 Bagdad
LINE 12 HALF NE SP. 1 DATE 2-25

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 1-2 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 |
| RECEIVE | 0-10N | 10-20N → | | 20-30N → | | | 30-40N → | | | |
| RANGE | 10 | 10 | 1.0 | 10 | 1.0 | 0.1 | 10 | 1.0 | 0.1 | 0.1 |
| DC 1 | 1.0 | 0.6 | 1.0 | 0.9 | 1.0 | 0.9 | 1.0 | 1.2 | 0.8 | 1.5 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 | 244. | 288. | 31.0 | 445. | 48.0 | 7.16 | 446. | 62.9 | 9.30 | 2.37 |
| AC 2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | -0.1 |
| AC AVG. | | | | | | | | | | |
| S.P. | 9.5 | 1.4 → | | 3.0 → | | | 7.0 → | | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | 0.3K | 0.6K → | | 1.1K → | | | 1.8K → | | | |

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bandad 482-70
LINE 12 HALF N SP. 1 DATE 2-25

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | | 4-5 |
| RECEIVE | 40-50 N | → | | | 50-60 N | → | | | | cal |
| RANGE | 1.0 | 1.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.01 | | 10 |
| DC 1 | 1.3 | 1.6 | 1.6 | 2.3 | 1.5 | 1.5 | 1.8 | 2.1 | | 0.1 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 | 55.2 | 10.7 | 2.30 | 1.02 | 11.7 | 3.04 | 1.09 | 0.705 | | 197. |
| AC 2 | 0.1 | 0.1 | 0.0 | 0.1 | 0.0 | 0.1 | -0.1 | 0.1 | | 0.1 |
| AC AVG. | | | | | | | | | | |
| S.P. | 13.8 | → | | | 12.6 | → | | | | — |
| AC NOISE | | | | | | | | | | |
| ET RES. | 1.3K | → | | | .4K | → | | | | — |

PAGE

HEINRICHS GEOEXPLORATION CO.

# I. P. SENDER NOTES

PROJECT 482-70-BAGDAD

LINE 13 HALF NE SP. 1 DATE 225

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 1-2 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 |
| RECEIVE | 0-10 | 10-20 | → | → | → | → | → | → | → | → |
| RANGE | 200X30 | 200X30 | 200-30 | 200X30 | 200-30 | 200X30 | 200X30 | 200-30 | 200-30 | 200X30 |
| VOLTAGE | 420 | 360 | 420 | 240 | 360 | 420 | 300 | 240 | 340 | 420 |
| CURRENT | 6 | 6 | 6 | 6 | 6 | | 6 | 6 | 6 | 6 |
| SEND | 4-5 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | | CAL 45 |
| RECEIVE | — | — | — | → | — | — | — | → | | 200 X 10 |
| RANGE | 200X30 | 200X30 | 200X30 | 200X30 | 200X30 | 200X30 | 200X30 | 200X30 | | |
| VOLTAGE | 300 | 240 | 340 | 420 | 300 | 240 | 340½ | 420 | | 100 |
| CURRENT | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | 6 |

FREQUENCIES ____ ____

SENDER NO. 6644 S

OPERATOR B PAWELCZYK

RECEIVER NO. 18691 R

OPERATOR DAVE CHAFFIN

COMMENTS:

N 30° E

2.0

Keep Out to show B.11

1.0 - 0/ac

HEINRICHS GEOEX JOB 482-70 LINE 12 SPREAD 1 LOOKING N 60 W 2-25-70 A= 1000 FEET

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6.000 | 6.000 | 6.000 | 6.000 | 6.000 | 6.000 | 6.000 | 6.000 | 6.000 | 6.000 | I | 6.000 | 6.000 | 6.000 | 6.000 | 6.000 | 6.000 | 6.000 | 6.000 | 2.000 | |
| 8 | 13 | 13 | 9 | 13 | 12 | 8 | 13 | 13 | 16 | DC | 11 | 9 | 16 | 19 | 14 | 10 | 17 | 20 | 1 | LEFT |
| 8 | 13 | 13 | 9 | 13 | 12 | 8 | 13 | 13 | 16 | | 11 | 9 | 16 | 19 | 14 | 10 | 17 | 20 | 1 | SIDE |
| 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | N | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | | |
| .8 | 1.3 | 1.3 | .9 | 1.3 | 1.2 | .8 | 1.3 | 1.3 | 1.6 | PFEA | 1.1 | .9 | 1.6 | 1.9 | 1.4 | 1.0 | 1.7 | 2.0 | .1 | |
| 285.0 | 248.0 | 32.10 | 119.0 | 14.80 | 3.900 | 135.0 | 10.70 | 3.850 | 2.050 | AC1 | 12.70 | 3.140 | 2.230 | 1.460 | 3.220 | 1.730 | 1.470 | 1.013 | 197.0 | |
| .1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | AC2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -.1 | .1 | .1 | |
| 285.1 | 248.0 | 32.10 | 119.0 | 14.80 | 3.900 | 1 5.0 | 10.70 | 3.850 | 2.050 | ACA | 1 .70 | 3.140 | 2.23 | 1.460 | 3.220 | 1.730 | 1.469 | 1.014 | 197.1 | |
| 145.7 | 127.4 | 65.96 | 60.89 | 30.41 | 20.01 | 69.01 | 21.99 | 19.78 | 21.12 | RHO | 26.04 | 16.07 | 22.98 | 26.41 | 16.56 | 17.72 | 26.53 | 29.34 | 1.015 | DC CAL |
| .7 | 1.2 | 1.2 | .8 | 1.2 | 1.1 | .7 | 1.2 | 1.2 | 1.5 | PFE | 1.0 | .8 | 1.5 | 1.8 | 1.3 | .9 | 1.7 | 1.9 | -.050 | AC CAL |
| 5 | 10 | 19 | 14 | 41 | 57 | 11 | 57 | 63 | 73 | MCF | 40 | 53 | 67 | 70 | 82 | 54 | 64 | 65 | | |
| 0.0 | 0.0 | .1 | .0 | .3 | 1.2 | 0.0 | .5 | 1.3 | 2.1 | CPFE | .4 | 1.7 | 1.9 | 2.6 | 1.6 | 2.7 | 2.6 | 3.4 | | |
| .7 | 1.2 | 1.1 | .8 | .9 | -.1 | .7 | .8 | -.0 | -.6 | CCPFE | .7 | -.8 | -.4 | -.7 | -.2 | -1.7 | -.9 | -1.5 | | |
| 5 | 10 | 17 | 13 | 31 | -5 | 11 | 35 | -1 | -27 | CCMCF | 26 | -50 | -15 | -27 | -15 | -96 | -32 | -49 | | |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6.000 | 6.000 | 6.000 | 6.000 | 6.000 | 6.000 | 6.000 | 6.000 | 6.000 | 6.000 | I | 6.000 | 6.000 | 6.000 | 6.000 | 6.000 | 6.000 | 6.000 | 6.000 | 2.000 | |
| 10 | 6 | 10 | 9 | 10 | 9 | 10 | 12 | 8 | 15 | DC | 13 | 16 | 16 | 23 | 15 | 15 | 18 | 21 | 1 | RIGHT |
| 10 | 6 | 10 | 9 | 10 | 9 | 10 | 12 | 8 | 15 | | 13 | 16 | 16 | 23 | 15 | 15 | 18 | 21 | 1 | SIDE |
| 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | N | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | | |
| 1.0 | .6 | 1.0 | .9 | 1.0 | .9 | 1.0 | 1.2 | .8 | 1.5 | PFEA | 1.3 | 1.6 | 1.6 | 2.3 | 1.5 | 1.5 | 1.8 | 2.1 | .1 | |
| 244.0 | 288.0 | 31.00 | 445.0 | 48.00 | 7.160 | 446.0 | 62.90 | 9.300 | 2.370 | AC1 | 55.20 | 10.70 | 2.300 | 1.020 | 11.70 | 3.040 | 1.090 | .705 | 197.0 | |
| .1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | .1 | 0.0 | 0.0 | -.1 | AC2 | .1 | .1 | 0.0 | .1 | 0.0 | .1 | -.1 | .1 | .1 | |
| 244.1 | 288.0 | 31.00 | 445.0 | 48.00 | 7.160 | 446.2 | 62.90 | 9.300 | 2.369 | ACA | 55.23 | 10.71 | 2.300 | 1.021 | 11.70 | 3.042 | 1.089 | .705 | 197.1 | |
| 125.0 | 146.9 | 63.51 | 227.7 | 98.34 | 36.64 | 228.4 | 129.1 | 47.54 | 24.40 | RHO | 113.4 | 55.13 | 23.70 | 18.52 | 60.22 | 31.30 | 19.69 | 20.44 | 1.015 | DC CAL |
| .9 | .5 | .9 | .8 | .9 | .8 | .9 | 1. | .7 | 1.5 | PFE | 1.2 | 1.5 | 1.5 | 2.2 | 1.4 | 1.4 | 1.8 | 2.0 | -.050 | AC CAL |
| 7 | 4 | 15 | 4 | 10 | 23 | 4 | 9 | 16 | 61 | MCF | 11 | 27 | 65 | 119 | 24 | 45 | 91 | 98 | | |
| 0.0 | 0.0 | .1 | 0.0 | .1 | .6 | 0.0 | .0 | .4 | 1.8 | CPFE | .0 | .3 | 1.8 | 4.0 | .3 | 1.3 | 3.7 | 5.3 | | |
| .9 | .5 | .8 | .8 | .9 | .3 | .9 | 1. | .4 | -.3 | CCPFE | 1.2 | 1.2 | -.3 | -1.8 | 1.2 | .1 | -1.9 | -3.3 | | |
| 7 | 4 | 13 | 4 | 9 | 8 | 4 | 9 | 8 | -11 | CCMCF | 10 | 21 | -12 | -99 | 19 | 4 | -98 | -159 | | |

BUSINESS FORMS PRINTING COMPANY
ENGINEERED FOR HIGH SPEED PRINTERS

JOB 482 LINE 12 SPREAD 2

LOOKING N60W DATE Feb 26/70 A= 1000 feet

CENTER 0.0 LABEL SW/NE FREQ. 1.0 - 0.1

COUPLING yes

3-2-70
RE

7 ok

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bagdad 482-70
LINE 12 HALF S SP. 2 DATE 2-26

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 4-5 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 |
| RECEIVE | 0-10S | 10-20S → | | 20-30S → | | | 30-40S → | | | |
| RANGE | 10 | 10 | 1.0 | 10 | 1.0 | 0.1 | 10 | 1.0 | 1.0 | 0.1 |
| DC 1 | 0.8 | 1.1 | 1.0 | 1.0 | 1.0 | 0.9 | 1.2 | 1.2 | 1.4 | 1.5 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 | 319. | 575. | 55.1 | 347. | 68.2 | 8.53 | 686. | 72.6 | 19.0 | 3.03 |
| AC 2 | 0.2 | 0.2 | 0.0 | 0.2 | 0.1 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 |
| AC AVG. | | | | | | | | | | |
| S.P. | 12.4 | -8.5 → | | 10.8 → | | | 4.9 → | | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | .2K | .1K → | | 1.2K → | | | 1.7K → | | | |

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bagdad 482-70
LINE 12 HALF 50 SP. 2 DATE 2-26

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 | | 1-2 |
| RECEIVE | 40-50 | S → | → | → | 50-60 | S → | → | → | | cal |
| RANGE | 1.0 | 1.0 | 0.1 | 0.1 | 1.0 | 0.1 | 0.1 | 0.01 | | 10 |
| DC 1 | 1.0 | 1.4 | 1.6 | 2.3 | 1.5 | 1.7 | 2.2 | 2.5 | | 0.0 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 | 73.5 | 12.5 | 4.21 | 1.19 | 17.1 | 4.23 | 1.91 | .813 | | 197. |
| AC 2 | -0.1 | 0.0 | 0.1 | 0.0 | 0.1 | 0.1 | 0.3 | -0.1 | | 0.1 |
| AC AVG. | | | | | | | | | | |
| S.P. | -1.7 | → | → | → | 14.8 | → | → | → | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | .8K | → | → | → | 3.2K | → | → | → | | |

HEINRICHS GEOEXPLORATION CO.

# I. P. SENDER NOTES

PAGE

PROJECT 482-70 BAGDAD

LINE 12 HALF SW SP. 2 DATE 2-26

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 4-5 | 2-3 | 3-4 | 4 5 | 1-2 | 2-3 | 3-4 | 4-5 |
| RECEIVE | 0-10 | 10-20 | → | 20-30 | → | → | 30 40 | → | → | → |
| RANGE | 300X30 | 300X30 | 300X30 | 300X30 | 300X30 | 300X30 | 300X30 | 300X30 | 300X30 | 300X30 |
| VOLTAGE | 240 | 120 | 240 | 260 | 120 | 240 | 380 | 260 | 120 | 260 |
| CURRENT | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| SEND | 1-2 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 | | CAL |
| RECEIVE | 40-50 | → | → | → | 50-60 | → | → | → | | 1-2 |
| RANGE | 300X30 | 300X30 | 300X30 | 300X30 | 300X30 | 300X30 | 300X30 | 300X30 | | 200X10 |
| VOLTAGE | 400 | 260 | 120 | 240 | 400 | 260 | 120 | 260 | | 100 |
| CURRENT | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | 2. |

FREQUENCIES _____ _____

SENDER NO. 6445

OPERATOR B Pawelczyk

RECEIVER NO. 18691 R

OPERATOR DAVE CHAFFIN

COMMENTS: S 30° W

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bagdad 482-70
LINE 12 HALF N SP. 2 DATE 2-26

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 1-2 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 |
| RECEIVE | 0-10N | 10-20N → | | 20-30N → | | | 30-40N → | | | |
| RANGE | 10 | 10 | 1.0 | 10 | 1.0 | 0.1 | 10 | 1.0 | 0.1 | 0.1 |
| DC 1 | 0.8 | 0.7 | 0.9 | 0.8 | 0.9 | 1.1 | 0.6 | 0.0 | 0.3 | 1.2 |
| DC 2 | | | | Fence | | | | | | |
| DC 3 | Fence, | | | | | | | crosses road at | | |
| DC 4 | not Grounded | | | | 2250' N of center | | | 3250' N | | |
| DC 5 | at 900N | | | | Line | | | | | |
| DC 6 | 900N | | | | | | | | | |
| DC 7 | | Fence | | | | | | | | |
| DC 8 | line | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 | 557. | 322. | 54.1 | 150. | 30.7 | 6.87 | 159. | 20.2 | 5.83 | 1.91 |
| AC 2 | 0.0 | 0.0 | -0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | -0.1 | 0.0 |
| AC AVG. | | | | | | | | | | |
| S.P. | 6.2 | 32.7 → | | 12.3 → | | | 9.9 → | | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | .2K | .8K → | | 0.7K → | | | 1.5K → | | | |

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bagdad 482-70
LINE 12 HALF No SP. 2 DATE 2-26

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | | 4-5 |
| RECEIVE | 40-50 | N → | | | 50-60 | No → | | | | Cal |
| RANGE | 1.0 | 0.1 | 0.1 | 0.01 | 0.1 | 0.1 | 0.01 | 0.01 | | 10 |
| DC 1 | 0.6 | 0.6 | 1.2 | 2.6 | 1.0 | 2.1 | 2.7 | ~~0.4~~ | | 0.3 |
| DC 2 | | | | | | | | 3.6 | | |
| DC 3 | | | | | Not Grounded fence at 5150 N | | | | | |
| DC 4 | | | | | | | line | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 | 15.6 | 3.17 | 1.53 | .746 | 2.68 | 1.07 | .768 | .478 | | 197. |
| AC 2 | 0.0 | 0.0 | -0.3 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | | 0.2 |
| AC AVG. | | | | | | | | | | |
| S.P. | 18.5 → | | | | 10.1 → | | | | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | 1.5K → | | | | .2K → | | | | | |

HEINRICHS GEOEXPLORATION CO.

# I. P. SENDER NOTES

PAGE

PROJECT 482-70 Bagdad

LINE 12 HALF NE SP. 2 DATE 2/26/70

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 1-2 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 |
| RECEIVE | 0-10 | 10-20 | → | 20-30 | → | → | 30-40 | → | → | → |
| RANGE | 30x300 | 30x300 | 30x300 | 30x300 | 30x300 | 30x300 | 30x300 | 30x300 | 30x300 | 30x300 |
| VOLTAGE | 380 | 260 | 380 | 120 | 260 | 380 | 250 | 120 | 260 | 380 |
| CURRENT | 9A | 9A | 9A | 9A | 9A | 9A | 9A | 9A | 9A | 9A |
| SEND | 4-5 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | | Cal |
| RECEIVE | 40-50 | → | → | → | 50-60 | → | → | → | | 4-5 |
| RANGE | 30x300 | 30x300 | 30x300 | 30x300 | 30x300 | 30x300 | 30x300 | 30x300 | | 10x200 |
| VOLTAGE | 250 | 120 | 260 | 380 | 250 | 120 | 260 | 380 | | 60 |
| CURRENT | 9A | 9A | 9A | 9A | 9A | 9A | 9A | 9A | | 2A |

FREQUENCIES .1 1.0

SENDER NO. 6644-8

OPERATOR Badruch

RECEIVER NO.

OPERATOR

COMMENTS:

HEINRICHS GEOEX JOB 482 LINE 12 SPREAD 2 LOOKING N60W 2-26-70 A= 1000 FEET

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | I | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 2.000 | |
| 8 | 11 | 10 | 10 | 10 | 9 | 12 | 12 | 14 | 15 | DC | 10 | 14 | 16 | 23 | 15 | 17 | 22 | 25 | 0 | LEFT |
| 8 | 11 | 10 | 10 | 10 | 9 | 12 | 12 | 14 | 15 | | 10 | 14 | 16 | 23 | 15 | 17 | 22 | 25 | 0 | SIDE |
| 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | N | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | | |
| .8 | 1.1 | 1.0 | 1.0 | 1.0 | .9 | 1.2 | 1.2 | 1.4 | 1.5 | PFEA | 1.0 | 1.4 | 1.6 | 2.3 | 1.5 | 1.7 | 2.2 | 2.5 | 0.0 | |
| 319.0 | 575.0 | 55.10 | 347.0 | 68.20 | 8.530 | 686.0 | 72.60 | 19.00 | 3.030 | AC1 | 73.50 | 12.50 | 4.210 | 1.190 | 17.10 | 4.230 | 1.910 | .813 | 197.0 | |
| .2 | .2 | 0.0 | .2 | .1 | 0.0 | .2 | 0.0 | 0.0 | 0.0 | AC2 | -.1 | 0.0 | .1 | 0.0 | .1 | .1 | .3 | -.1 | .1 | |
| 319.3 | 575.6 | 55.10 | 347.3 | 68.23 | 8.530 | 686.7 | 72.60 | 19.00 | 3.030 | ACA | 73.46 | 12.50 | 4.212 | 1.190 | 17.11 | 4.232 | 1.913 | .813 | 197.1 | |
| 108.8 | 196.7 | 75.33 | 118.6 | 93.24 | 29.13 | 234.9 | 99.45 | 65.20 | 20.82 | RHO | 100.5 | 42.89 | 28.95 | 14.42 | 58.74 | 29.12 | 23.12 | 15.79 | 1.015 | DC CAL |
| .7 | 1.0 | 1.0 | .9 | 1.0 | .9 | 1.1 | 1.2 | 1.4 | 1.5 | PFE | 1.1 | 1.4 | 1.6 | 2.3 | 1.5 | 1.7 | 2.1 | 2.6 | .050 | AC CAL |
| 7 | 5 | 14 | 8 | 11 | 33 | 5 | 13 | 22 | 74 | MCF | 11 | 34 | 55 | 163 | 26 | 58 | 91 | 165 | | |
| 0.0 | 0.0 | .1 | 0.0 | .1 | .8 | 0.0 | .1 | .3 | 2.2 | CPFE | .1 | .4 | 1.4 | 5.5 | .3 | 1.4 | 3.0 | 7.2 | | |
| .7 | 1.0 | 1.0 | .9 | .9 | .2 | 1.1 | 1.2 | 1.2 | -.6 | CCPFE | 1.0 | 1.0 | .2 | -3.1 | 1.2 | .3 | -.9 | -4.6 | | |
| 7 | 5 | 13 | 8 | 10 | 7 | 5 | 12 | 18 | -29 | CCMCF | 10 | 23 | 7 | -218 | 21 | 10 | -41 | -292 | | |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | I | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 2.000 | |
| 8 | 7 | 9 | 8 | 9 | 11 | 6 | 0 | 3 | 12 | DC | 6 | 6 | 12 | 26 | 10 | 21 | 27 | 36 | 3 | RIGHT |
| 8 | 7 | 9 | 8 | 9 | 11 | 6 | 0 | 3 | 12 | | 6 | 6 | 12 | 26 | 10 | 21 | 27 | 36 | 3 | SIDE |
| 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | N | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | | |
| .8 | .7 | .9 | .8 | .9 | 1.1 | .6 | 0.0 | .3 | 1.2 | PFEA | .6 | .6 | 1.2 | 2.6 | 1.0 | 2.1 | 2.7 | 3.6 | .3 | |
| 557.0 | 322.0 | 54.10 | 150.0 | 30.70 | 6.870 | 159.0 | 20.20 | 5.830 | 1.910 | AC1 | 15.60 | 3.170 | 1.530 | .746 | 2.680 | 1.070 | .768 | .478 | 197.0 | |
| 0.0 | 0.0 | -.1 | 0.0 | 0.0 | 0.0 | 0.0 | .1 | -.1 | 0.0 | AC2 | 0.0 | 0.0 | -.3 | 0.0 | .1 | 0.0 | 0.0 | 0.0 | .2 | |
| 557.0 | 322.0 | 54.07 | 150.0 | 30.70 | 6.870 | 159.0 | 20.21 | 5.827 | 1.910 | ACA | 15.60 | 3.170 | 1.528 | .746 | 2.681 | 1.070 | .768 | .478 | 197.2 | |
| 189.4 | 109.4 | 73.67 | 51.01 | 41.81 | 23.43 | 53.97 | 27.26 | 19.73 | 13.04 | RHO | 21.18 | 10.76 | 10.45 | 9.04 | 9.13 | 7.37 | 9.31 | 9.36 | 1.014 | DC CAL |
| .6 | .5 | .7 | .6 | .7 | .9 | .4 | -.2 | .2 | 1.0 | PFE | .4 | .4 | 1.1 | 2.4 | .7 | 1.9 | 2.5 | 3.4 | -.200 | AC CAL |
| 3 | 5 | 10 | 12 | 17 | 38 | 7 | -9 | 8 | 77 | MCF | 19 | 37 | 110 | 266 | 82 | 258 | 268 | 363 | | |
| 0.0 | 0.0 | .1 | .0 | .2 | 1.0 | .0 | .4 | 1.3 | 3.9 | CPFE | .5 | 2.8 | 5.2 | 9.7 | 3.4 | 7.9 | 9.3 | 13.5 | | |
| .6 | .5 | .7 | .6 | .5 | -.1 | .4 | -.6 | -1.1 | -2.9 | CCPFE | -.1 | -2.4 | -4.0 | -7.3 | -2.7 | -6.0 | -6.8 | -10.1 | | |
| 3 | 5 | 9 | 11 | 12 | -5 | 7 | -22 | -57 | -223 | CCMCF | -5 | -221 | -383 | -806 | -292 | -812 | -735 | -1083 | | |

JOB 482 LINE 13 SPREAD 1

LOOKING N 52 W DATE Feb 28, 70 A= 1000 feet

CENTER 0.0 LABEL SW / NE FREQ. 1.0 -0.1

COUPLING yes

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 482-70 Baqdad
LINE 13 HALF W SP. 1 DATE 2-28

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 4-5 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 |
| RECEIVE | 0-10W | 10-20 | W → | 20-30 | W → | | 30-40 | W → | | |
| RANGE | 1.0 | 1.0 | 1.0 | 10 | 1.0 | 0.1 | 10 | 1.0 | 0.1 | 0.1 |
| DC 1 | 0.5 | 0.9 | 1.1 | 0.8 | 1.0 | 0.6 | 1.1 | 1.0 | 1.1 | 0.8 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 | 88.3 | 108.7 | 11.4 | 151. | 13.3 | 3.64 | 187. | 21.6 | 4.61 | 2.15 |
| AC 2 | 0.0 | 0.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | -0.2 |
| AC AVG. | | | | | | | | | | |
| S.P. | -6.8 | -5.0 → | | 9.1 → | | | 14.9 → | | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | 4.6K | 1.2K → | | 6.0K → | | | 5.2K → | | | |

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT 482-70 Bagdad
LINE 13 HALF W SP. I DATE 2-28

PAGE 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 | | 1-2 |
| RECEIVE | 40-50 | W → | → | → | 50-60 | W → | → | → | | cal |
| RANGE | 1.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | 10 |
| DC 1 | 1.2 | 1.0 | 1.6 | 2.2 | 1.0 | 1.2 | 1.8 | 1.7 | | 0.2 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 | 22.5 | 8.84 | 2.52 | 1.38 | 9.66 | 5.78 | 1.91 | 1.084 | | 197. |
| AC 2 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1 | | 0.0 |
| AC AVG. | | | | | | | | | | |
| S.P. | -5.5 → | → | → | → | 19.1 → | → | → | → | | — |
| AC NOISE | | | | | | | | | | — |
| POT RES. | 4.0K → | → | → | → | 4.1K → | → | → | → | | — |

PAGE

HEINRICHS GEOEXPLORATION CO.

# I. P. SENDER NOTES

PROJECT 482-70 BAGDAD

LINE 13 HALF SW SP. 1 DATE 2-28

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 4-5 | 2-3 | 3 4 | 4 5 | 1-2 | 2-3 | 3-4 | 4-5 |
| RECEIVE | 0-10 | 10 20 | → | 20-30 | → | → | 30-40 | → | → | → |
| RANGE | 233X30 | 300X30 | 233X30 | 300X30 | 300X30 | 233X30 | 300X30 | 300X30 | 300X30 | 233X30 |
| VOLTAGE | 400 | 260 | 400 | 220 | 260 | 400 | 320 | 220 | 260 | 400 |
| CURRENT | 7 | 9 | 7 | 9 | 9 | 7 | 9 | 9 | 9 | 7 |
| SEND | 1-2 | 2-3 | 3 4 | 4-5 | 1 2 | 2 3 | 3 4 | 4 5 | | CAL. |
| RECEIVE | 40-50 | → | → | → | 50-60 | → | → | → | | 1-2 |
| RANGE | 300X30 | 300X30 | 300X30 | 233X30 | 300X30 | 300X30 | 300X30 | 233X30 | | 200X10 |
| VOLTAGE | 320 | 220 | 280 | 400 | 320 | 240 | 260 | 400 | | 80 |
| CURRENT | 9 | 9 | 9 | 7 | 9 | 9 | 9 | 7 | | 2 |

FREQUENCIES C E

SENDER NO. 6644 S

OPERATOR B PAWELCZYK

RECEIVER NO. 18691 R

OPERATOR D CHAFFIN

COMMENTS: S 38° W

N 52 W

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Bagdad 482-70
LINE 13 HALF E SP. 1 DATE 2-28

PAGE 1

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 1-2 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 |
| RECEIVE | 0-10E | 10-20 | E → | 20-30 | E → | | 30-40 | E → | | |
| RANGE | 10 | 10 | 1.0 | 10 | 1.0 | 0.1 | 10 | 1.0 | 0.1 | 0.1 |
| DC 1 | 0.8 | 0.8 | 0.8 | 1.2 | 0.8 | 0.4 | 1.0 | 1.0 | 0.6 | 1.0 |
| DC 2 | | | | | | | | | Fence | |
| DC 3 | | | | | | | | not | | 3500 E |
| DC 4 | | | | | | | | grounded | | |
| DC 5 | | | | | | | | | Line | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 | 114. | 120. | 15.0 | 192. | 16.2 | 5.89 | 120. | 17.9 | 9.16 | 5.80 |
| AC 2 | 0.1 | 0.2 | 0.0 | 0.2 | 0.0 | | 0.2 | 0.0 | 0.0 | 0.0 |
| AC AVG. | | | | | | | | | | |
| S.P. | -4.1 | 13.8 | 15.2 | → | → | | 16.8 | → | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | 10K | 40K | 6K | → | → | | | | | |

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Baodad 482-20
LINE 13 HALF E SP. 1 DATE 2-28

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 4-5 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | | |
| RECEIVE | 40-50 | E → | → | → | 50-60 | E → | → | → | | |
| RANGE | 1.0 | 1.0 | 1.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | |
| DC 1 | 0.8 | 1.0 | 1.9 | 1.2 | 1.0 | 1.1 | 0.8 | 1.3 | | .2 |
| DC 2 | | | | | | | | | | |
| DC 3 | | | | | | | | | | |
| DC 4 | | | | | | | | | | |
| DC 5 | | | | | | | | | | |
| DC 6 | | | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | | | | | | | | | | |
| AC 1 | 23.0 | 16.7 | 12.3 | 8.54 | 10.11 | 9.86 | 1.05 | 5.17 | | 197. |
| AC 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1 | 0.0 | | 0.0 |
| AC AVG. | | | | | | | | | | |
| S.P. | -4.9 → | → | → | → | 12.5 → | → | → | → | | |
| AC NOISE | | | | | | | | | | |
| POT RES. | 2.0K → | → | → | → | 1.0K → | → | → | → | | |

PAGE

HEINRICHS GEOEXPLORATION CO.

# I. P. SENDER NOTES

PROJECT 482-70 BAGDAD

LINE 13 HALF NE SP. 1 DATE 7-28

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 1-2 | 2-3 | 1-2 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 |
| RECEIVE | 0-10 | 10-20 | → | 20-30 | → | → | 30-40 | → | → | → |
| RANGE | 300X30 | 300X30 | 300X30 | 300X30 | 300X30 | 300X30 | 233X30 | 300X30 | 300X30 | 300X30 |
| VOLTAGE | 320 | 280 | 320 | 260 | 220 | 320 | 400 | 260 | 220 | 320 |
| CURRENT | 9 | 9 | 9 | 9 | 9 | 9 | 7 | 9 | 9 | 9 |
| SEND | 4-5 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | | |
| RECEIVE | 40-50 | → | → | → | | | | | | |
| RANGE | 233X30 | 300X30 | 300X30 | 300X30 | 233X30 | 300X30 | 300X30 | 300X30 | | |
| VOLTAGE | 400 | 260 | 220 | 320 | 400 | 260 | 220 | 320 | | |
| CURRENT | 7 | 9 | 9 | 9 | 7 | 9 | 9 | 9 | | 2.0 |

FREQUENCIES C E

SENDER NO. 6644 S

OPERATOR B PAWELCZYK

RECEIVER NO. 18691 R

OPERATOR D CHAFFIN

COMMENTS: N. 63° E

1.6 - 6.1/ac

HEINRICHS GEOEX JOB 482-70 LINE 13 SPREAD 1 LOOKING N 52 W 2-28-70 A= 1000 FEET

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7.000 | 9.000 | 7.000 | 9.000 | 9.000 | 7.000 | 9.000 | 9.000 | 9.000 | 7.000 | I | 9.000 | 9.000 | 9.000 | 7.000 | 9.000 | 9.000 | 9.000 | 7.000 | 2.000 | |
| 5 | 9 | 11 | 8 | 10 | 6 | 11 | 10 | 11 | 8 | DC | 12 | 10 | 16 | 22 | 10 | 12 | 18 | 17 | 2 | LEFT |
| 5 | 9 | 11 | 8 | 10 | 6 | 11 | 10 | 11 | 8 | | 12 | 10 | 16 | 22 | 10 | 12 | 18 | 17 | 2 | SIDE |
| 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | N | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | | |
| .5 | .9 | 1.1 | .8 | 1.0 | .6 | 1.1 | 1.0 | 1.1 | .8 | PFEA | 1.2 | 1.0 | 1.6 | 2.2 | 1.0 | 1.2 | 1.8 | 1.7 | .2 | |
| 88.30 | 108.7 | 11.40 | 151.0 | 13.30 | 3.640 | 187.0 | 21.60 | 4.610 | 2.150 | AC1 | 22.50 | 8.840 | 2.520 | 1.380 | 9.660 | 5.780 | 1.910 | 1.084 | 197.0 | |
| 0.0 | .1 | 0.0 | .1 | 0.0 | 0.0 | .1 | 0.0 | 0.0 | -.2 | AC2 | 0.0 | 0.0 | .1 | 0.0 | 0.0 | 0.0 | 0.0 | -.1 | 0.0 | |
| 88.30 | 108.8 | 11.40 | 151.1 | 13.30 | 3.640 | 187.1 | 21.60 | 4.610 | 2.148 | ACA | 22.50 | 8.840 | 2.521 | 1.380 | 9.660 | 5.780 | 1.910 | 1.083 | 197.0 | |
| 38.53 | 37.04 | 20.02 | 51.41 | 18.15 | 15.90 | 6[illegible].85 | 29.47 | 15.74 | 18.82 | RHO | 30.76 | 30.15 | 17.29 | 21.44 | 32.95 | 39.51 | 22.98 | 26.81 | 1.015 | DC CAL |
| .3 | .6 | .9 | .5 | .8 | .4 | .8 | .8 | .9 | .7 | PFE | 1.0 | .8 | 1.3 | 2.0 | .8 | 1.0 | 1.6 | 1.5 | -.200 | AC CAL |
| 8 | 18 | 45 | 11 | 44 | 25 | 13 | 27 | 57 | 37 | MCF | 33 | 27 | 78 | 93 | 24 | 25 | 70 | 58 | | |
| .1 | .1 | .5 | .0 | .6 | 1.7 | .0 | .3 | 1.7 | 2.5 | CPFE | .3 | .7 | 2.7 | 3.4 | .6 | .9 | 3.1 | 3.8 | | |
| .2 | .6 | .4 | .5 | .2 | -1.3 | .8 | .5 | -.8 | -1.8 | CCPFE | .7 | .1 | -1.4 | -1.4 | .2 | .1 | -1.5 | -2.2 | | |
| 6 | 16 | 18 | 10 | 10 | -81 | 13 | 6 | -51 | -94 | CCMCF | 23 | 3 | -8 | -63 | 5 | 2 | -64 | -82 | | |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 9.000 | 7.000 | 9.000 | 9.000 | 9.000 | I | 7.000 | 9.000 | 9.000 | 9.000 | 7.000 | 9.000 | 9.000 | 9.000 | 2.000 | |
| 8 | 8 | 8 | 12 | 8 | 4 | 10 | 10 | 6 | 10 | DC | 8 | 10 | 19 | 12 | 10 | 11 | 8 | 13 | 2 | RIGHT |
| 8 | 8 | 8 | 12 | 8 | 4 | 10 | 10 | 6 | 10 | | 8 | 10 | 19 | 12 | 10 | 11 | 8 | 13 | 2 | SIDE |
| 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | N | 2 | 3 | 4 | 5 | 3 | 4 | 5 | 6 | | |
| .8 | .8 | .8 | 1.2 | .8 | .4 | 1.0 | 1.0 | .6 | 1.0 | PFEA | .8 | 1.0 | 1.9 | 1.2 | 1.0 | 1.1 | .8 | 1.3 | .2 | |
| 114.0 | 120.0 | 15.00 | 192.0 | 16.20 | 5.890 | 120.0 | 17.90 | 9.160 | 5.800 | AC1 | 23.00 | 16.70 | 12.30 | 8.540 | 10.11 | 8.860 | 1.050 | 5.170 | 197.0 | |
| .1 | .2 | 0.0 | .2 | 0.0 | 0.0 | .2 | 0.0 | 0.0 | 0.0 | AC2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -.1 | 0.0 | 0.0 | |
| 114.1 | 120.1 | 15.00 | 192.2 | 16.20 | 5.890 | 120.1 | 17.90 | 9.160 | 5.800 | ACA | 23.00 | 16.70 | 12.30 | 8.540 | 10.11 | 8.860 | 1.049 | 5.170 | 197.0 | |
| 38.81 | 40.85 | 20.43 | 65.62 | 22.06 | 19.97 | 52.63 | 24.42 | 31.12 | 39.57 | RHO | 40.27 | 56.97 | 84.66 | 102.2 | 44.34 | 60.51 | 12.51 | 99.05 | 1.015 | DC CAL |
| .5 | .5 | .6 | .9 | .6 | .2 | .7 | .8 | .4 | .8 | PFE | .6 | .8 | 1.7 | 1.0 | .8 | .9 | .6 | 1.1 | -.200 | AC CAL |
| 14 | 12 | 29 | 14 | 27 | 10 | 13 | 33 | 13 | 20 | MCF | 15 | 14 | 20 | 10 | 18 | 15 | 52 | 11 | | |
| .1 | .1 | .5 | .0 | .5 | 1.2 | .0 | .4 | .7 | .9 | CPFE | .2 | .3 | .3 | .4 | .4 | .5 | 6.5 | .7 | | |
| .5 | .4 | .1 | .9 | .1 | -1.0 | .7 | .4 | -.3 | -.1 | CCPFE | .4 | .5 | 1.4 | .6 | .4 | .4 | -5.9 | .4 | | |
| 13 | 11 | 3 | 13 | 5 | -53 | 13 | 16 | -9 | -3 | CCMCF | 10 | 9 | 16 | 6 | 8 | 6 | -470 | 4 | | |

BUSINESS FORMS PRINTING COMPANY
ENGINEERED FOR HIGH SPEED PRINTERS

Memo:

To: Phil Matthews

From: Carlos Aiken

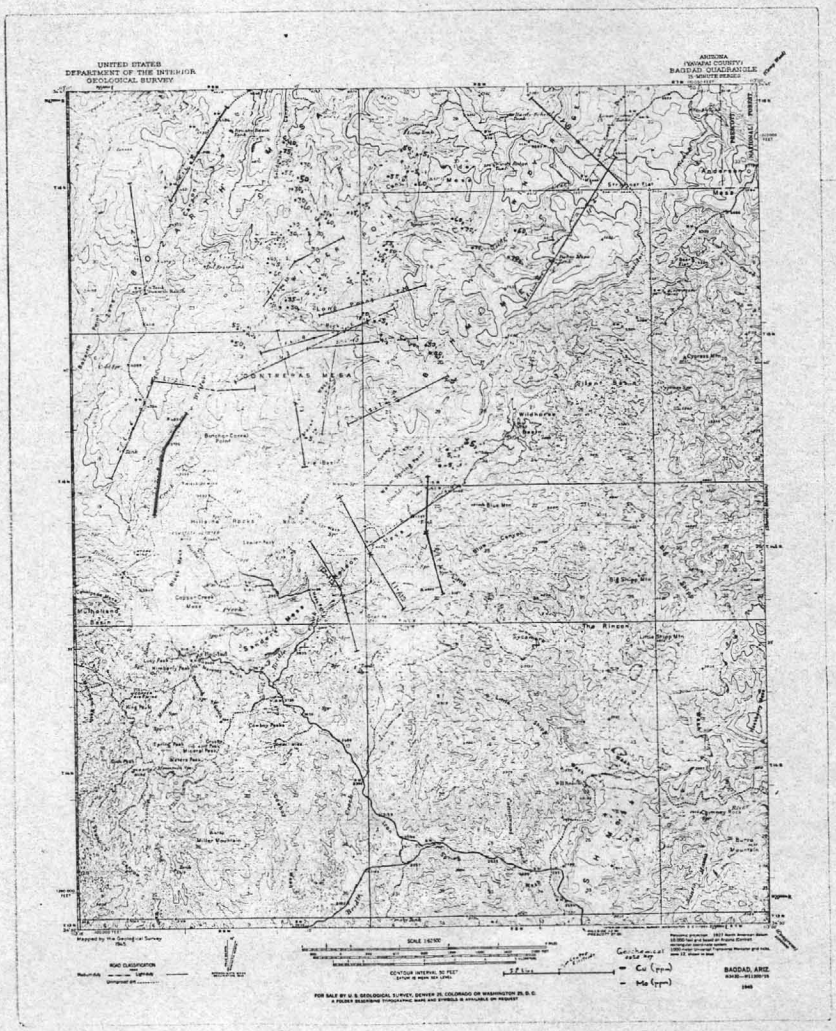
Recommendations for additional airmagnetics in Bagdad Area.

Magnetic anomalies in the Hualapai Mountains consist of a series of sharp almost circular highs and lows. The most northern high fits perfectly over a "Precambrian granite" body in the Mt. Hualapai area surrounded by "Precambrian gneiss". Considerable mining activity has occurred along the periphery of the granitic block including tungsten, gold, silver and lead. Two other magnetic anomalies resemble the Mt. Hualapai anomaly, in the areas of the Diamond Joe stock and at Groom Peak. Gold has been found in the latter area. Geology maps indicate only "Precambrian gneiss". On the west flank of the Hualapai a closed low appears over more "Precambrian granite". These circular anomalies could be related to granitic intrusions close to the surface under the gneisses.

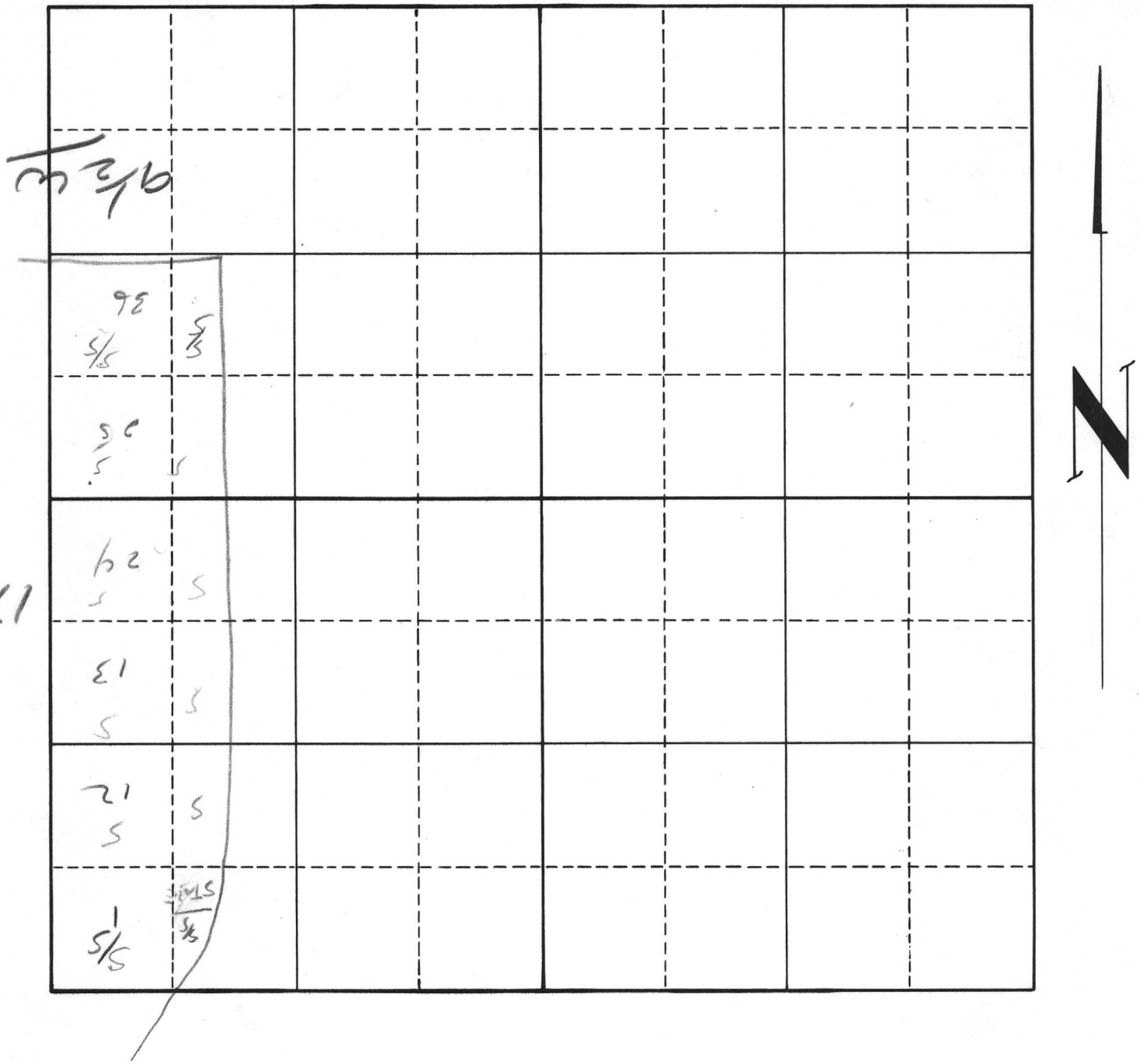
Both areas are along a line trending N 77° W from Meduele Ranch. I recommend that a single airmagnetic line approximately 16 miles long be run over both anomalies along this trend in order to more precisely indicate the character of theseanomalies. A constant elevation above terrain attenuates the topographic effect. Accurate

depth estimations using the traditional methods are not very accurate nor applicable in the survey such as Dr. Sumner's. This recommended line would provide data in which these methods could be used as well as delineating the anomalies more adequately. This line could begin at the northwest corner of the detailed airmagnetics being done in the Bagdad area.

Carlos Aiken


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
ARIZONA
(YAVAPAI COUNTY)
BAGDAD QUADRANGLE
7.5 MINUTE SERIES
Mapped by the Geological Survey
1943
ROAD CLASSIFICATION
SCALE 1:62500
CONTOUR INTERVAL 50 FEET
DATUM IS MEAN SEA LEVEL
Geochemical data
Cu (ppm)
Mo (ppm)
BAGDAD, ARIZ.
1948
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D. C.
A FULLER DESCRIPTION TYPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

Section _____ Township _____ Range _____




800 400 0 800 1600 2400 Feet

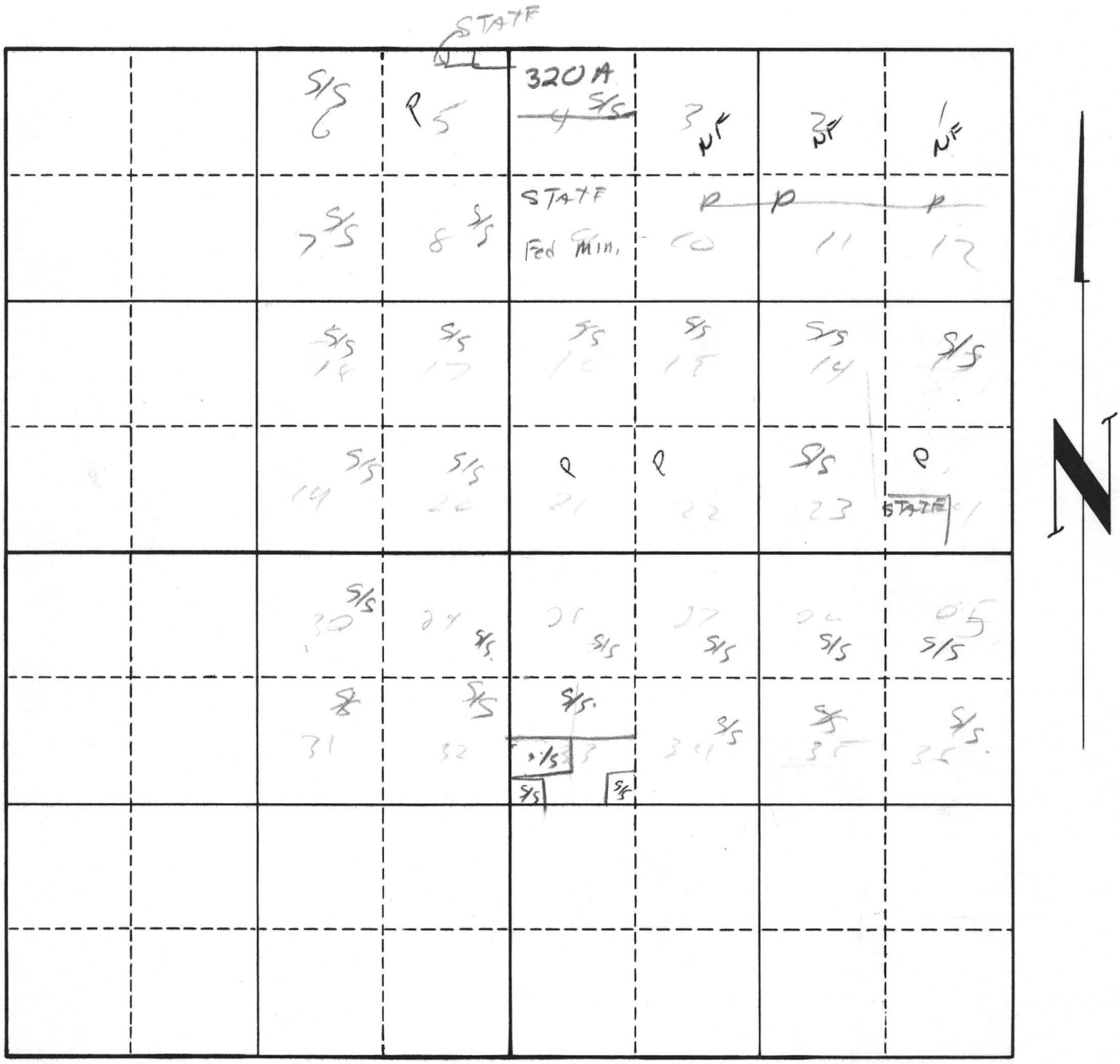
5280 Feet
320 Rods
1760 Yards
80 Chains
} 1 Mile

66 Feet } 1 Chain

43560 Sq. Ft. } 1 Acre

Scale: _____

Section _____ Township 14 N Range 6 W




800 400 0 800 1600 2400 Feet

5280 Feet
320 Rods
1760 Yards
80 Chains
} 1 Mile

66 Feet } 1 Chain

43560 Sq. Ft. } 1 Acre

Scale: _____

17N - 9½ W

Nonum clous.

7W

20/12 → 20/7

19/12 ← 19/7

18/12 → 18/9 | No 18/8 | 18/7

17/12 | 17/7

16½/12 → 16½/9 | 16/7

16/12

15 15 15/10 15/9 15/8 15/7W

14½

14 9W 14N/8W | 7W/14N

15

NEW - B. Board? D.C.

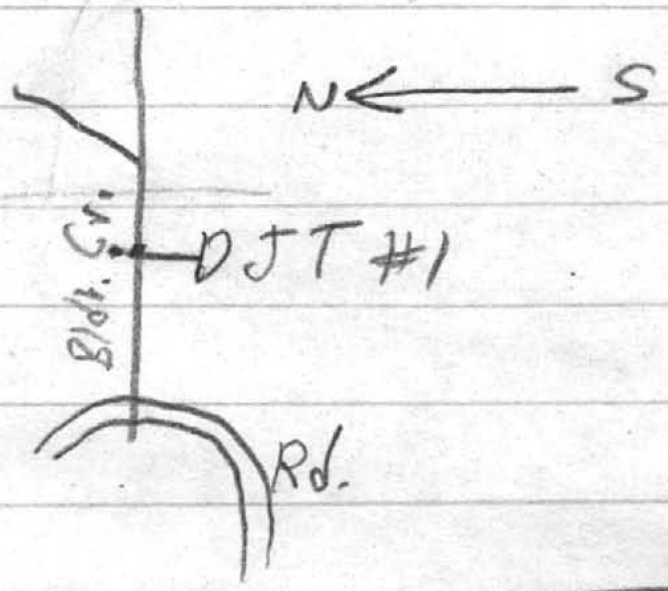
# Wide spot in road? Bagdad?

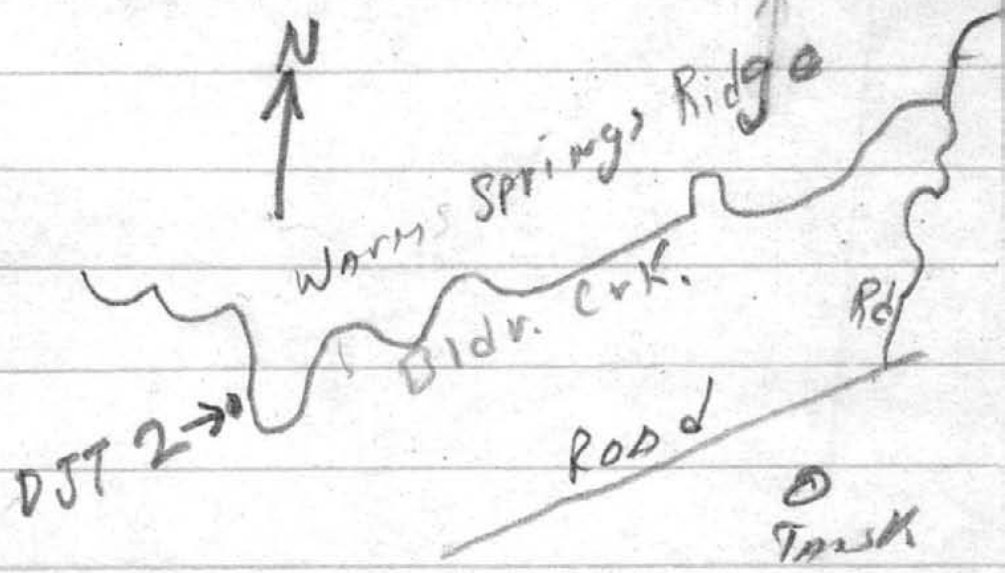
Eight aircraft are normally tied down

Isolated community offers full life, including Hilltop Community Church

M 1-27-70

Bldr. Crk. E. OF Tung. Mine Rd.

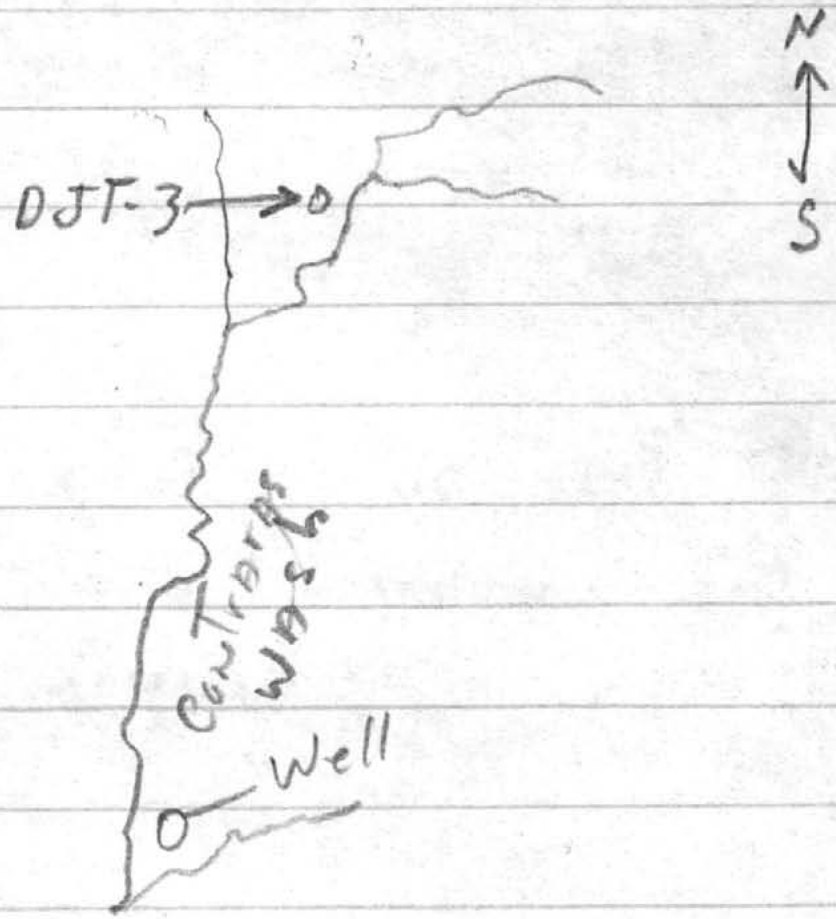


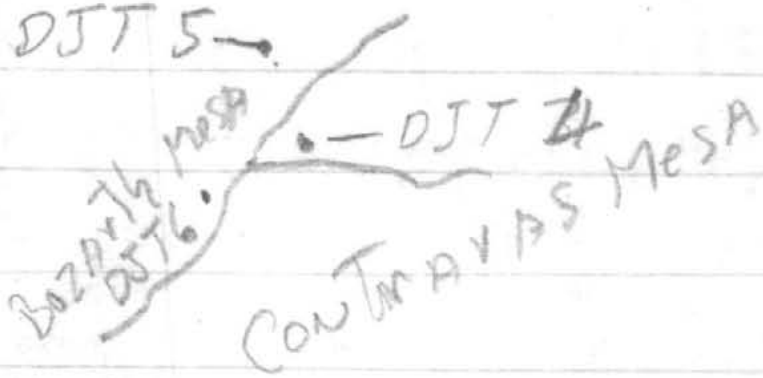
1-28-70

ON CONTRARAS WASH

O-well



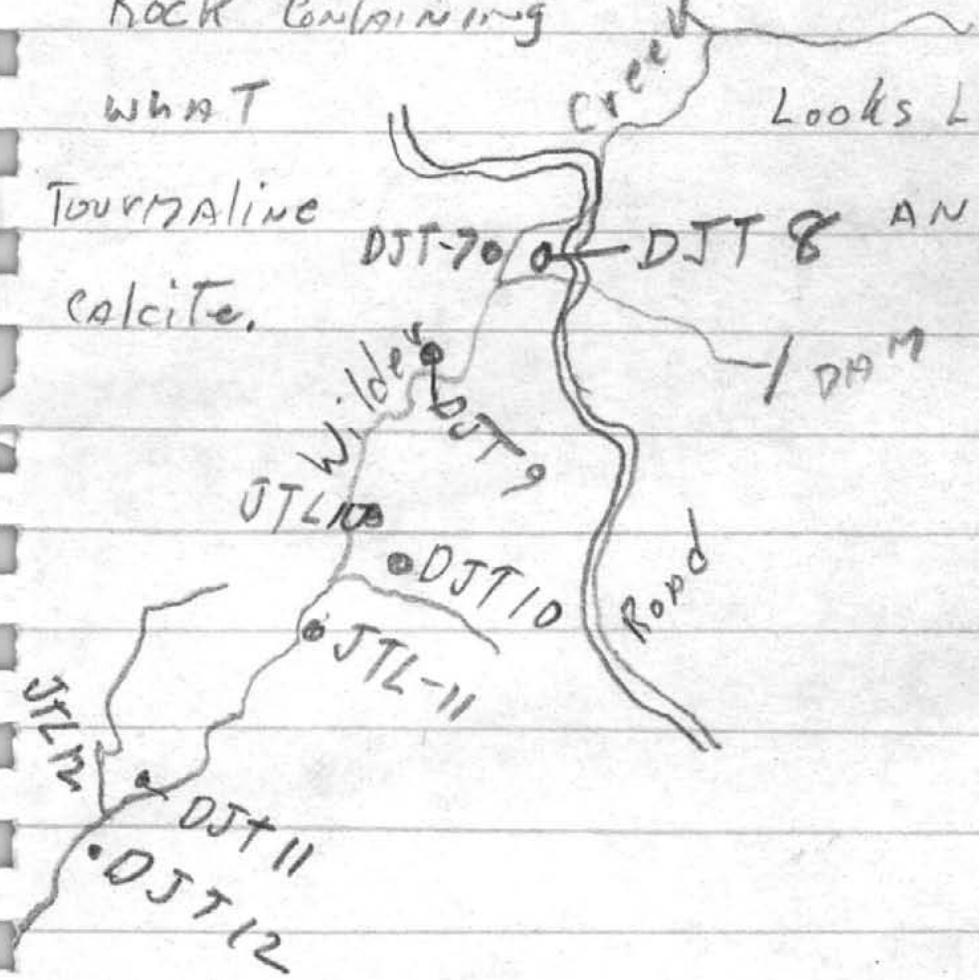
1-28-70




Took These quite a way up The Canyon wall To get away From alluvial deposits

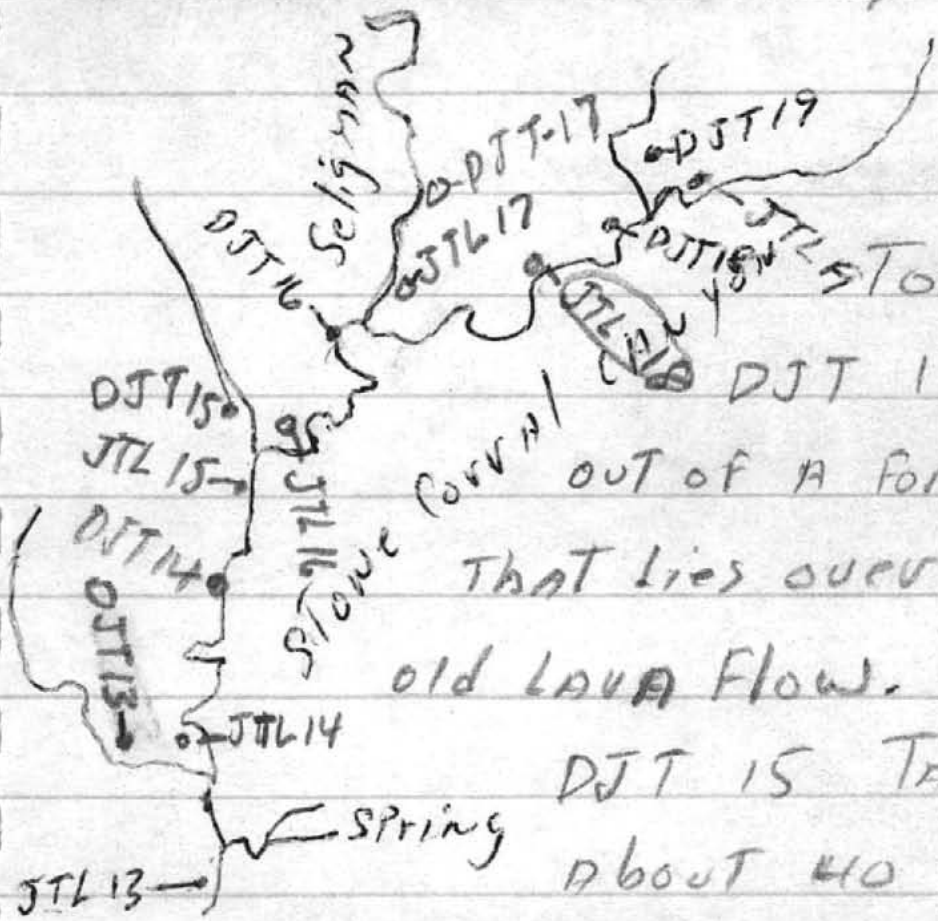
1-29-70

Down Wilder Creek From Rd Crossing To ____? Mesa Took DJT 9 in Granitic Rock Containing what Looks Like Tourmaline and calcite.



1-30-70

Found spring going down into Stone Corral Canyon




Took DJT 13 out of a formation that lies over an old lava flow.

DJT 15 Taken about 40 feet upstream from 15 ft drop off

DJT 17 Not sure of location but is directly above a pool of water about 40' by 60' by 6 or 7 ft. deep

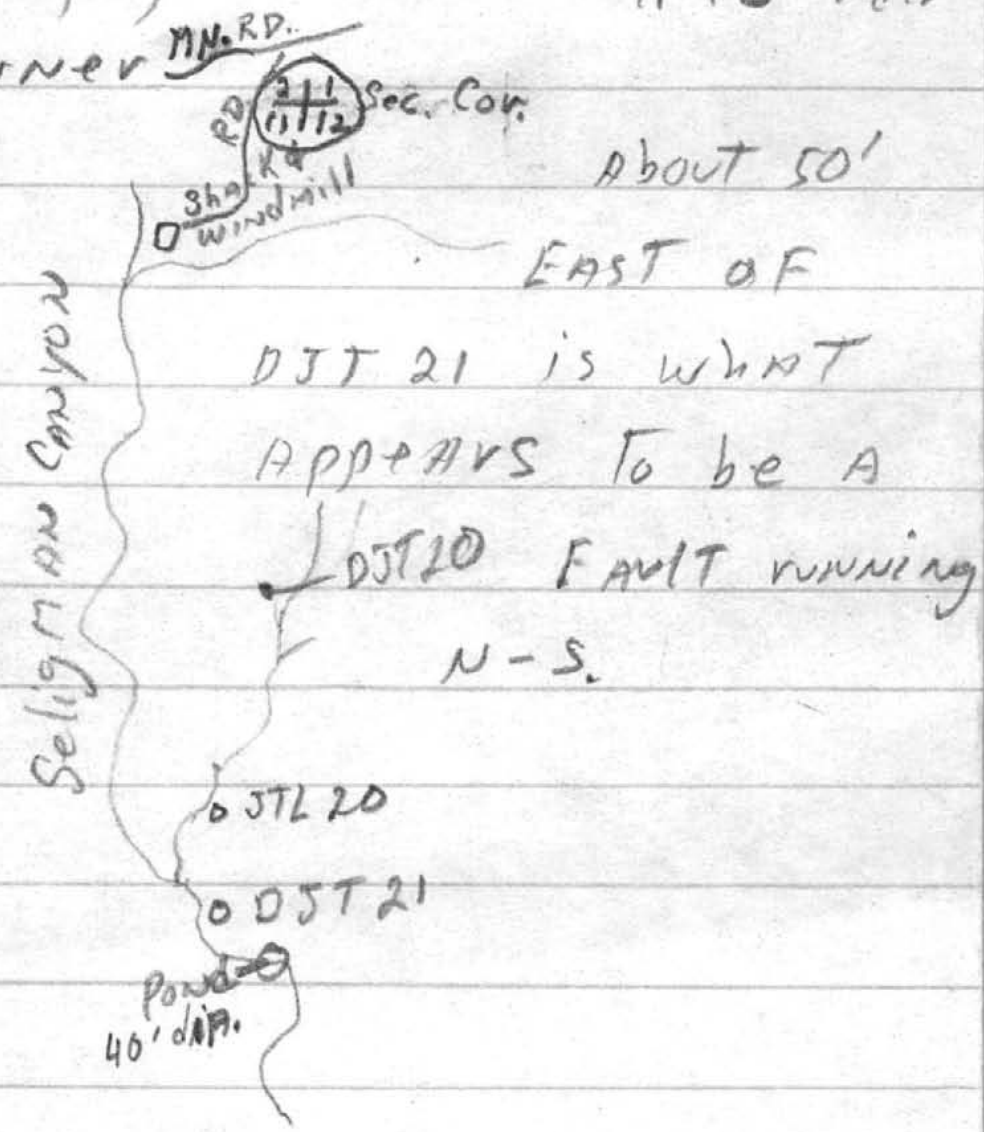
DJT 18 Taken Near remains of barbed wire Fence,

DJT 19 Taken approx 100' above canyon Floor

1-31-70

Found Sec. Cor.s T 16N R 9W

11, 12, 13, & 14 on Fence corner




About 50' EAST OF DJT 21 is what appears to be a fault running N-S.

7-2-70

DJT 22 Taken in whitish soft conglomerate where primative road crosses Burro Creek near ranch house

DJT 23 Taken near 2nd switch back on road above ranch house

2-3-70

Took A1 off a vein outcrop approx ½ mile S.E. of Tank

A5 came from Reddish outcrop N.E. of the gate before you get to the stock Tank

2-4-70

Took A 40 1/4 Mile
Above ranch house off
road Leading To Top of Mesa

A41 1/4 Mile West of road
Leading To ranch house Taken
From quartz outcrop.

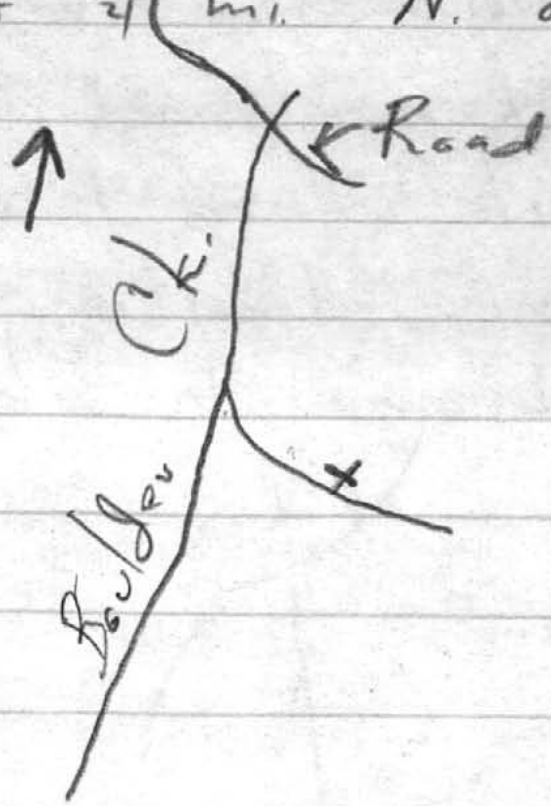
A43 Comes From The Top
of A hill overlying A
granitic Type rock

27 Jan. 1970

J.T.L #1

Some dark staining on rock.

Approx 500' up from fork in Boulder Creek, about 1/4 mi. N. of road

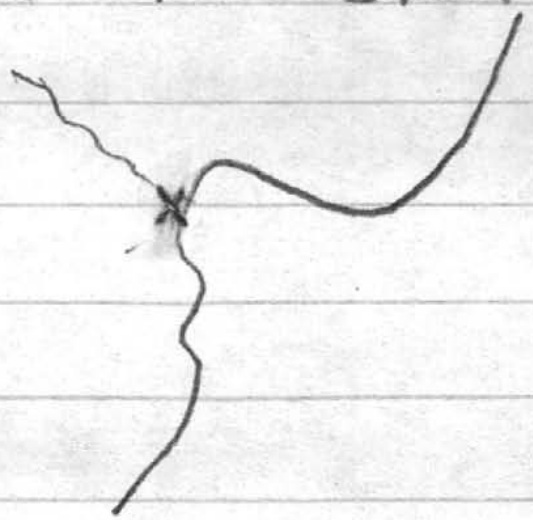


27 Jan. 1970
J.T.L. #2

Sample taken in a white granite like rock, course to fine grain on north side of Boulder Ct. approx. 500' E. from very poor, unknown road. Rock was quite hard & had some mineralization stains (light brown to black) on it.

27 Jan. 70
J.T.L. #3

Sample taken on N. wall of Boulder Ck. in light, fine grain granitic rock. Very hard. Mineralization stains from light brown to black



27 Jan. 70
JTL. 4

Sample taken on S. side of Boulder Ck. in light pink granitic rock porforitic grain. Some light brown + yellow mineralization stain.

28 Jan. 1970
J. T. L. 5

Sample taken in white, course grained granitic rock. Extensive brown mineralization stain on surface of rock. Quite hard

28 Jan. 1970
J.T.L. 6

Sample taken from cocoa brown colored volcanic rock. Quiet a lot of lichen growth on rock.

28 Jan 1970
J.T.L. 7

Sample taken in cocoa brown colored volcanic rock. Hard, but brittle

29 Jan 1970
J.T.L.

Sample taken from cocoa brown volcanic rock.

29 Jan. 1970
JTL. 9

Sample taken from gray colored volcanic rock, approx 25' above stream bed. Rock hard, but brittle. Light brown mineralization stain on rocks.

29 Jan. 1970

J.T.L. - 10

Sample from vain of light brown, fibrous rock with mica like layers. Vain approx. 15' wide, coming down diagonally out of canyon wall and bordered by light colored granitic rock

29 Jan. 1970
J.T.L. 11

Sample taken from outcropping of white-to light pink granitic rock

29 Jan. 1970
J.T.L.-12

Sample taken from light green rock. Rock was extensively fractured & very brittle. Brown to bright red mineralization stain

30 Jan 1970
J.T.L - 13

Sample taken from gray colored volcanic rock. Some white deposits or stains on rock, also white + rust colored crystals inside.

30 Jan. 1970

J.T.L.-14

Sample taken from gray-green (cement colored) rock. Extensive horizontal fracturing. Rock hard, but brittle. Outcropping, approx. 30' long, 6' deep.

30 Jan 70
JTL-15

Sample taken from light gray, brittle, extensively fractured rock. Some dull red mineralization stain.

30 Jan. 1970
J.T.L. 16

Sample taken from large outcropping of light gray, brittle rock

30 Jan 1970
J.T.L. 17

Sample taken from light brown to gray volcanic rock. Some dark brown mineralization stain.

30 Jan. 1970

J.T.L -18

Sample taken from reddish-gray volcanic rock

30 Jan. 1970
J.T.h.-19

Sample taken from volcanic rock, red on the outside and grey on the inside.

31 Jan. 1970

J.T.L.-20

Sample taken from gray volcanic rock. Light tan to dark brown mineralization stain.

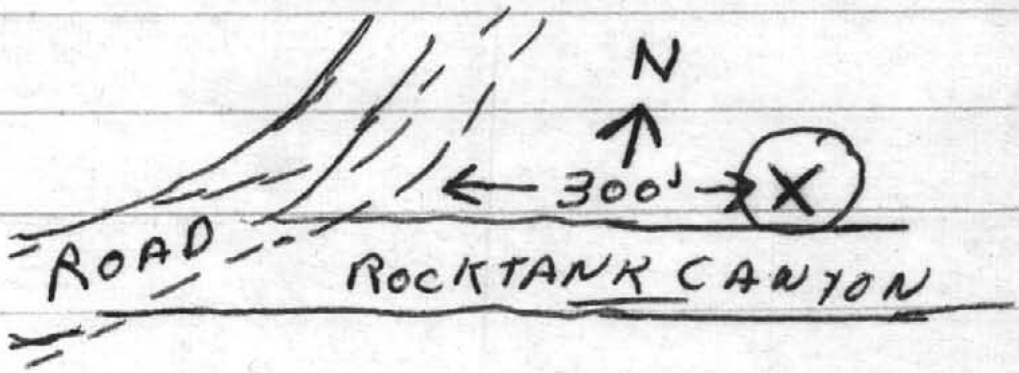
31 Jan. 1970
JTL-21

Sample taken from gray volcanic rock, with brown to black mineralization stains.

28-Jan.

GDC #1

ROCK TANK CANYON




NORTH SIDE of CANYON - CLIFF FACE - LIGHT BROWN ROCK WEATHERING - OBVIOUS MINERALIZATION

28- Jan.

GDC.

# 2-3-4

VOIDED

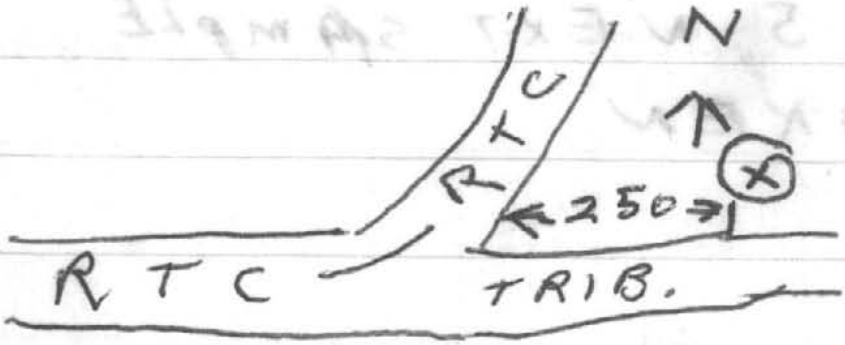
# 5 NEXT SAMPLE

TAKEN

28 - JAN

GDC # 5

ROCK TANK CÄNYON

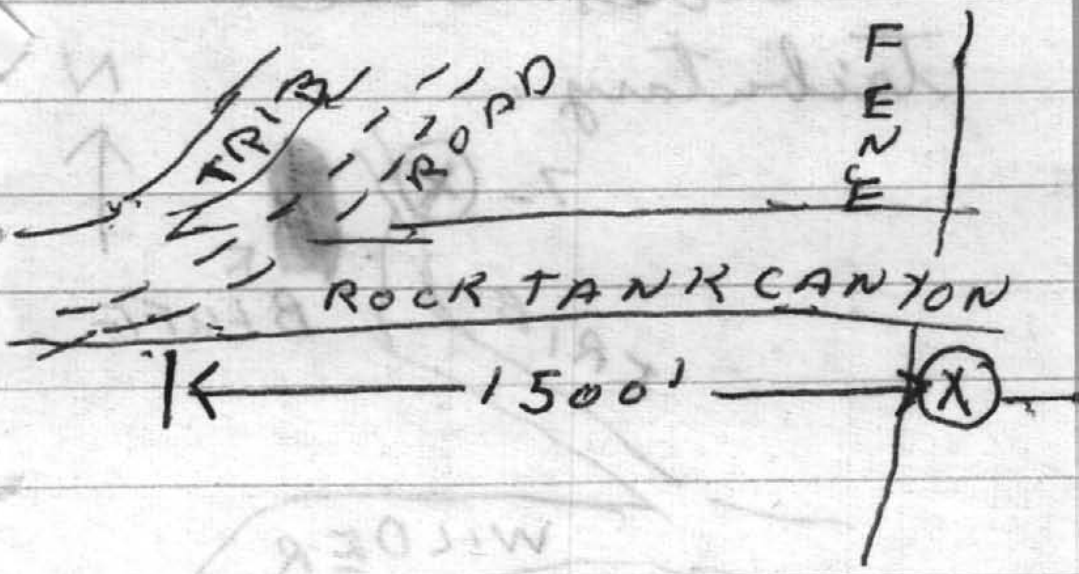



SAMPLE TAKEN FROM ROCK FACE 50' ABOVE TRIB. ON NORTH SLOPE VOLCANIC & CONGLOMERATE ROCK.

28- JAN

GDC # 6

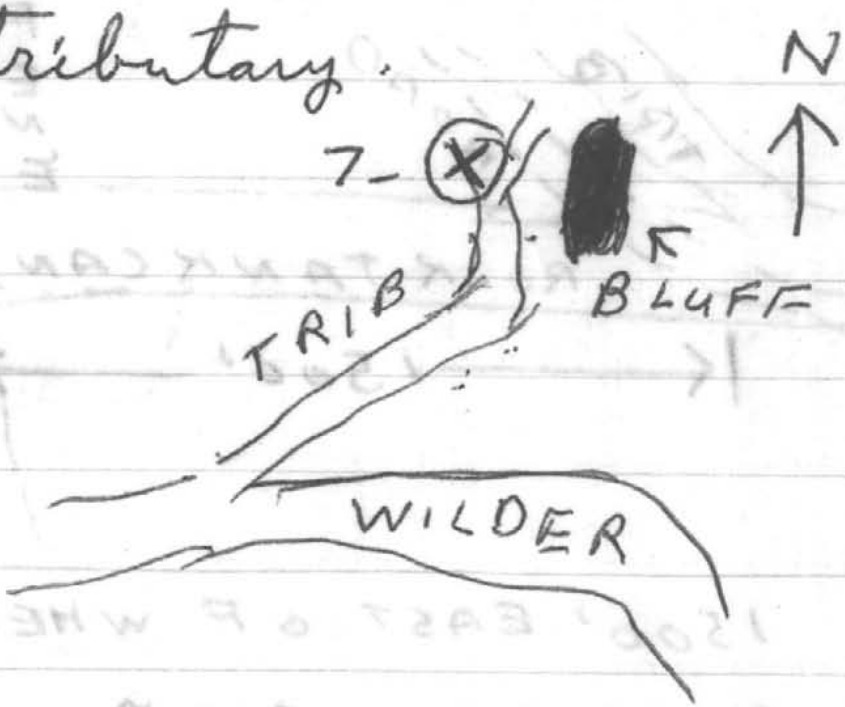
ROCK TANK CANYON




1500' EAST OF WHERE ROAD CROSSES ROCK TANK CAN. ON NORTH SOUTH FENCE LINE. ROCK CLIFF ON SOUTH BANK OF CANYON (IN CANYON) LIGHT BROWN VOLCANIC ROCK

GOC #7

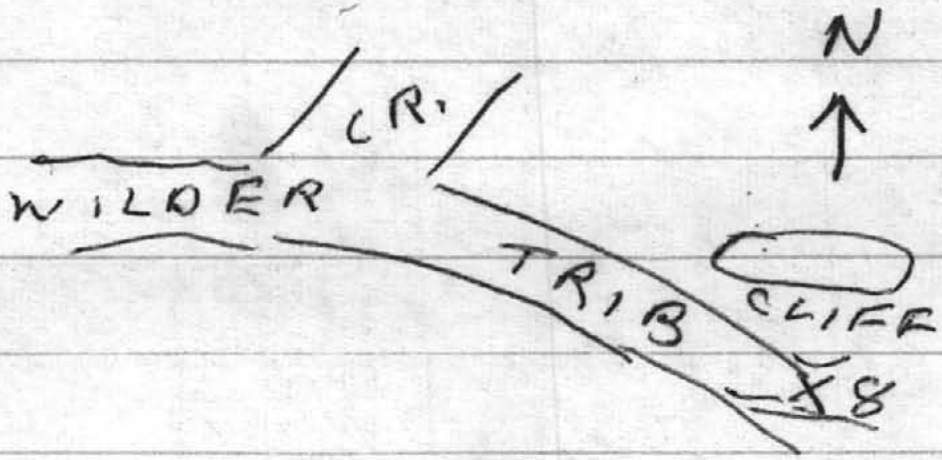
Wilder Creek tributary.




500' up Tributary in wash below red rock bluff

GOC # 8

WILDER CREEK



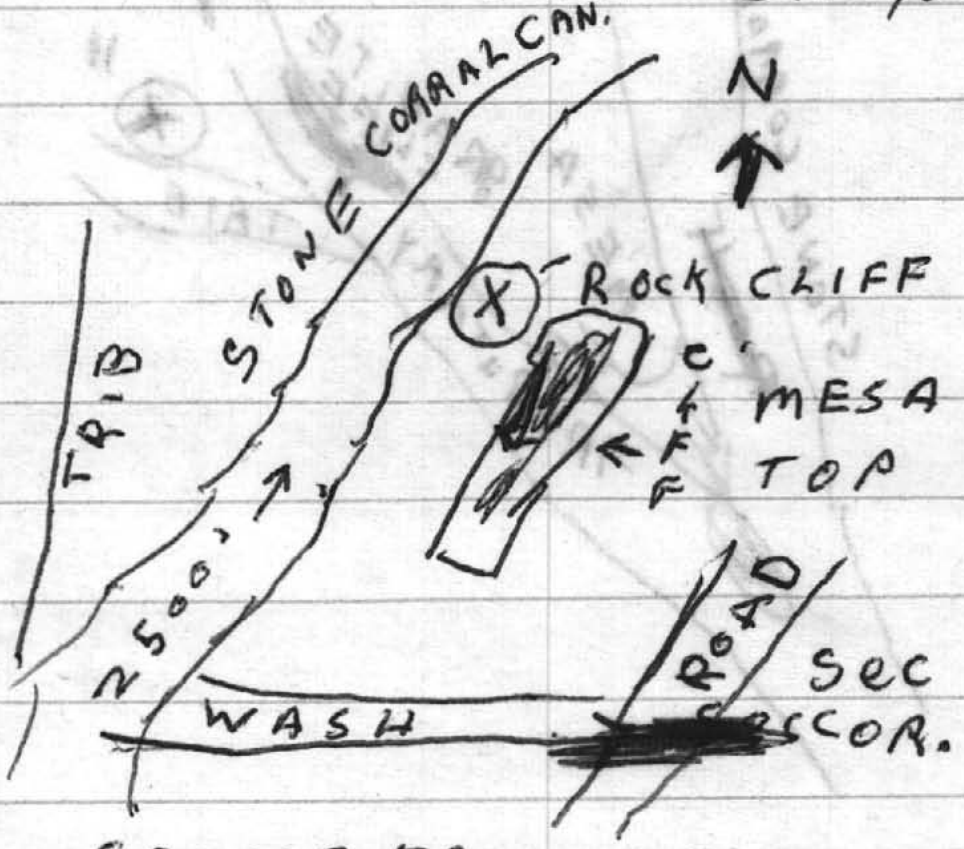

~~1~~ 50' up TRIB. from ~~[illegible]~~ point where Wilder creek bears Northeast T Rib goes south east. sample taken in creek Volcanic -

# 9

VOID

GDC #10 Volcanic

STONE CORRAL CANYON

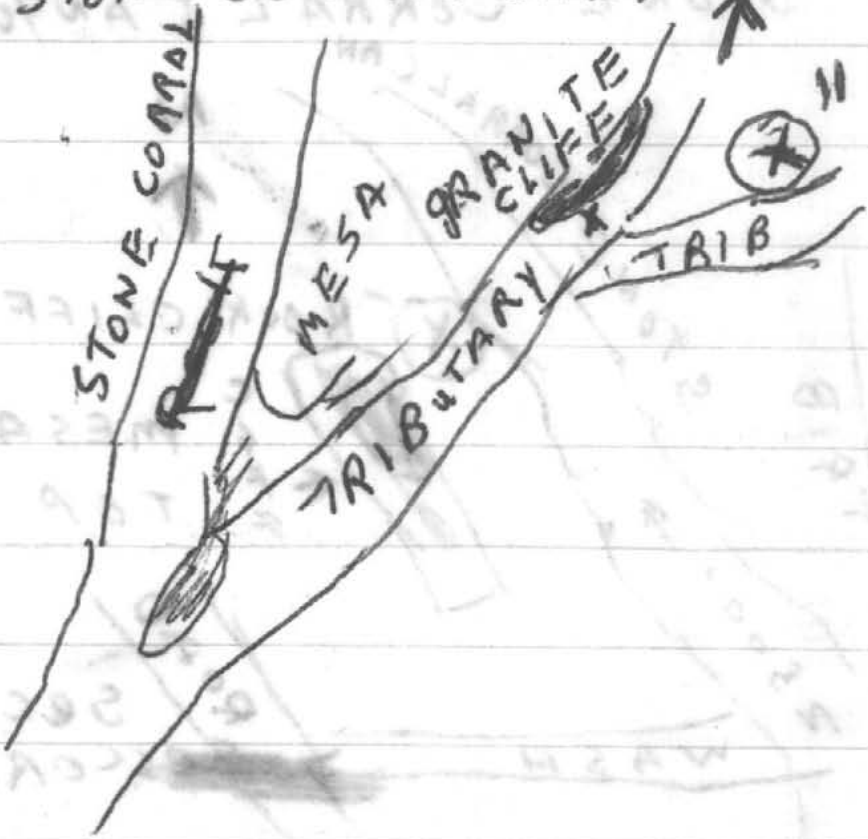



SAMPLE FROM VOLCANIC ROCK IN STREAM BED BELOW LONG VOLCANIC ROCK CLIFF ON MESA TO THE EAST - APPROX. 2500' NORTH OF WASH JUNCTION AT Sec.

#11 GDC

~~ROCK TANK CAN.~~ N

STONE CORRAL CAN.

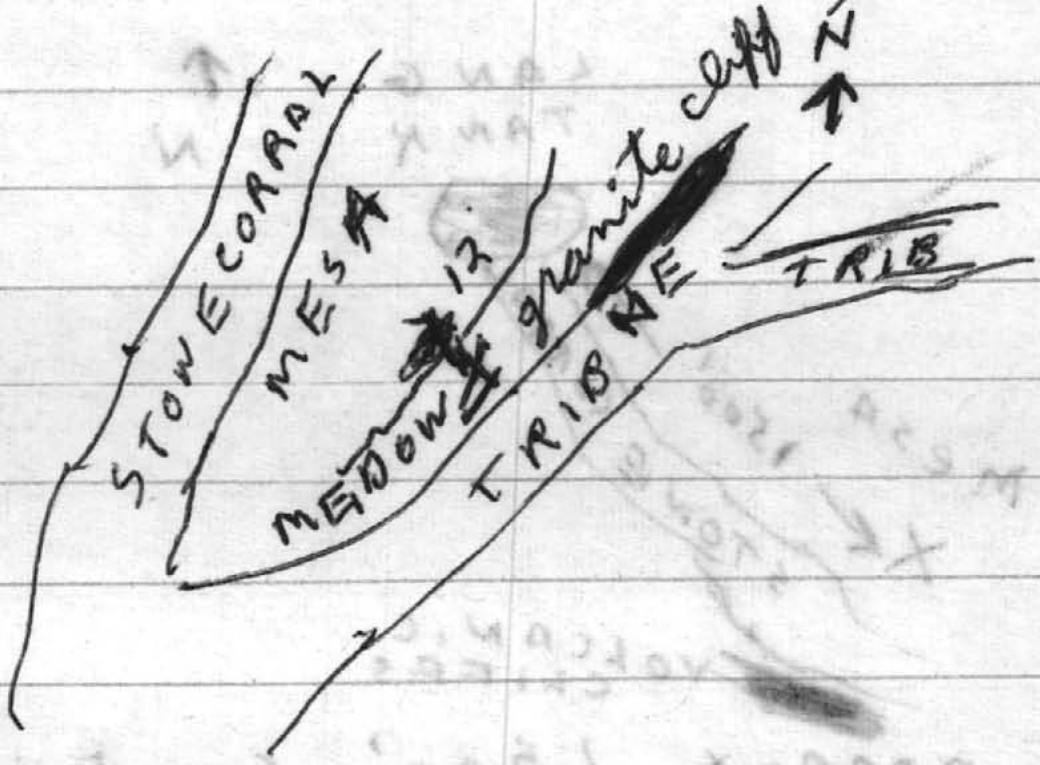



SAMPLE IN VOLCANIC ROCK 200' EAST UP TRIB. THE TRIB runs EAST IS directly opposite LARGE GRANITE CLIFF IN WASH (TRIB NE ONE OF STONE CORRAL CAN. S.

GDC

#12 - Granite

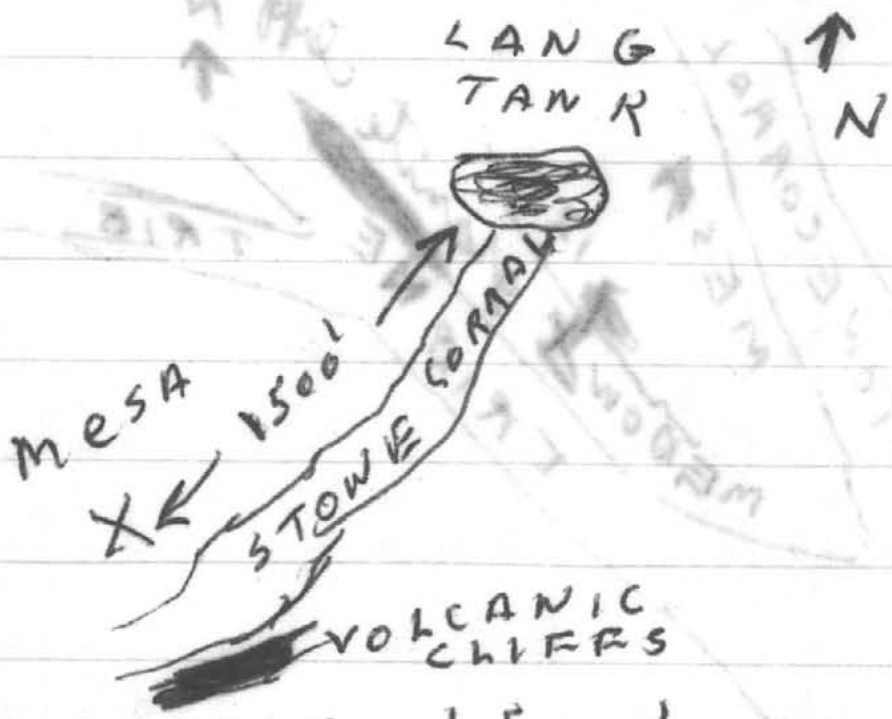
STONE CORRAL CANYON




SAMPLE FROM MEDOW AT JUNCTION OF STONE CORRAL AND N. E. TRIB. S.W. of SAMPLE #11 APPROX. 500'.

GDC # 14

STONE CORRAL CAN.

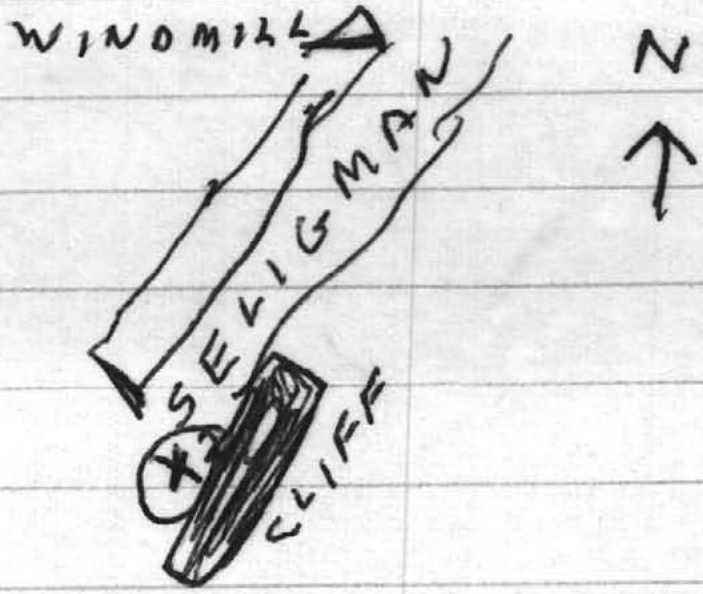



APPROX. 1500' SOUTH OF LANG TANK IN STONE CORRAL CANYON 200' TO WEST OF CANYON IN VOLCANIC DARK VOL. CLIFF SE OF #14 IN BEND OF CAN.

#13 VOIDED

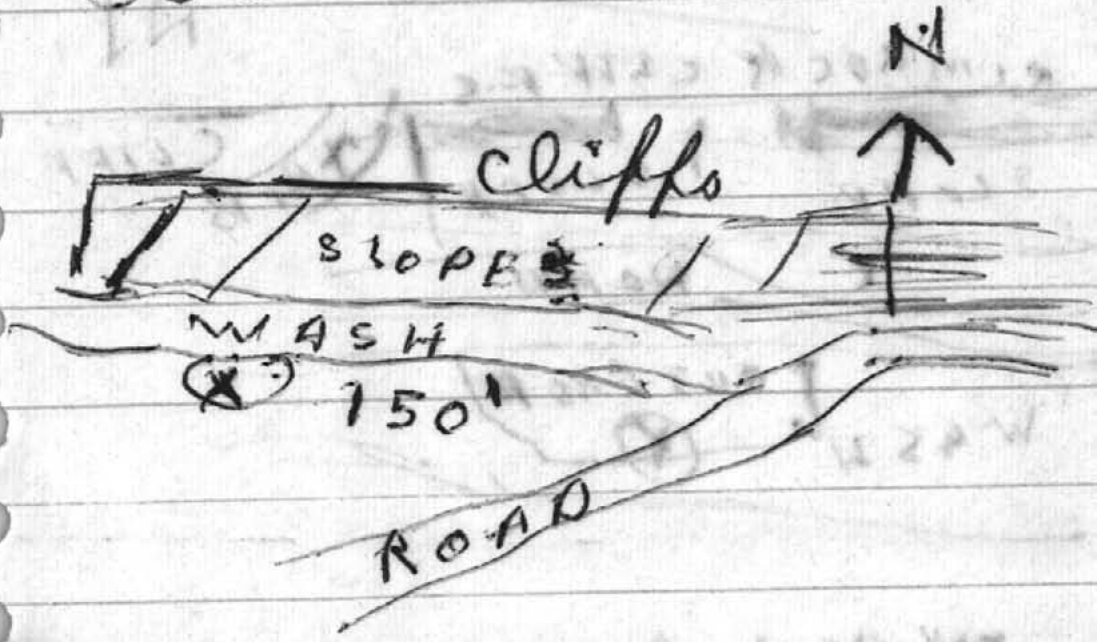
GDC # 15

SELIGMAN CANYON



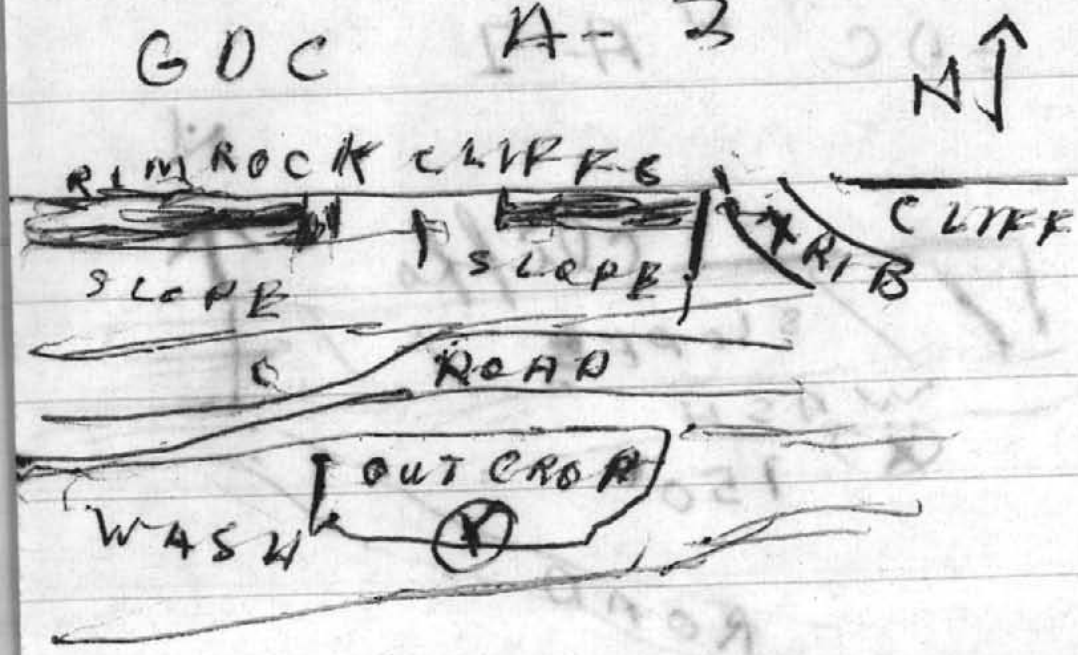

DARK VOLCANIC CLIFF IN CANYON APPOX. 1000' SOUTH OF WIND MILL & CABIN AT N. end OF SELIGMAN - EAST SIDE OF CANYON CLIFF ABOUT 25' HIGH

GDC # A-1




LIGHT COLORED granite in wash that runs directly below slope of MESA - 150' WEST OF WHERE ROAD CROSSES WASH - A

GDC A-3




WASH PARALELL TO EAST ~~ROAD~~ WEST ROAD SOUTH EAST OF C CLIFF

OUTCROP OF REDROCK IN WASH DIRECTLY S E OF LIGHT COLORED SECTION OF OTHERWISE DARK RIMROCK ON CLIFFS.

granite

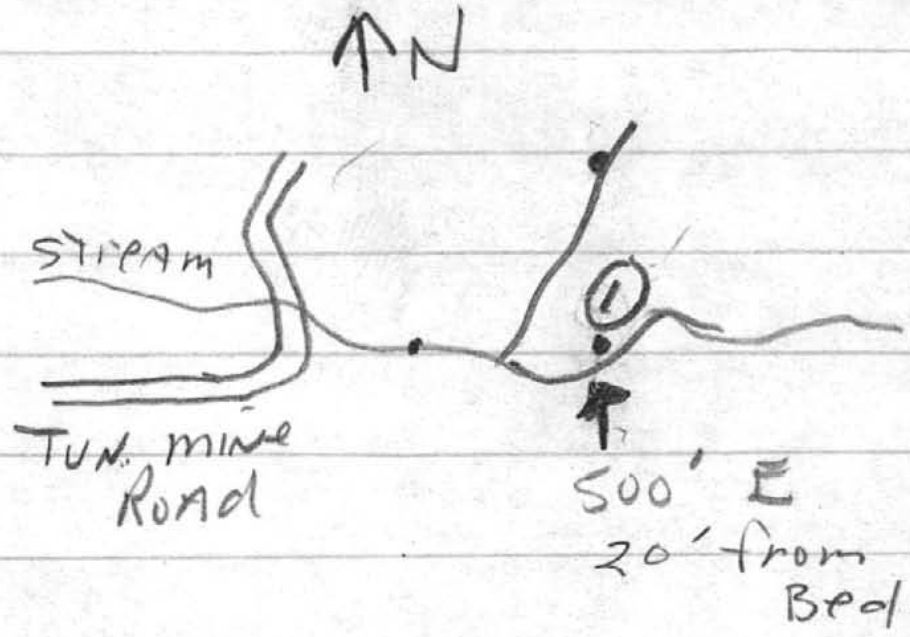
CDC - A-81

SYCAMORE CAMP

granite outcrops in Wash 2 miles NE of where wash crosses road just below sycamore camp by BOLCER RANCH

JAN 27 70

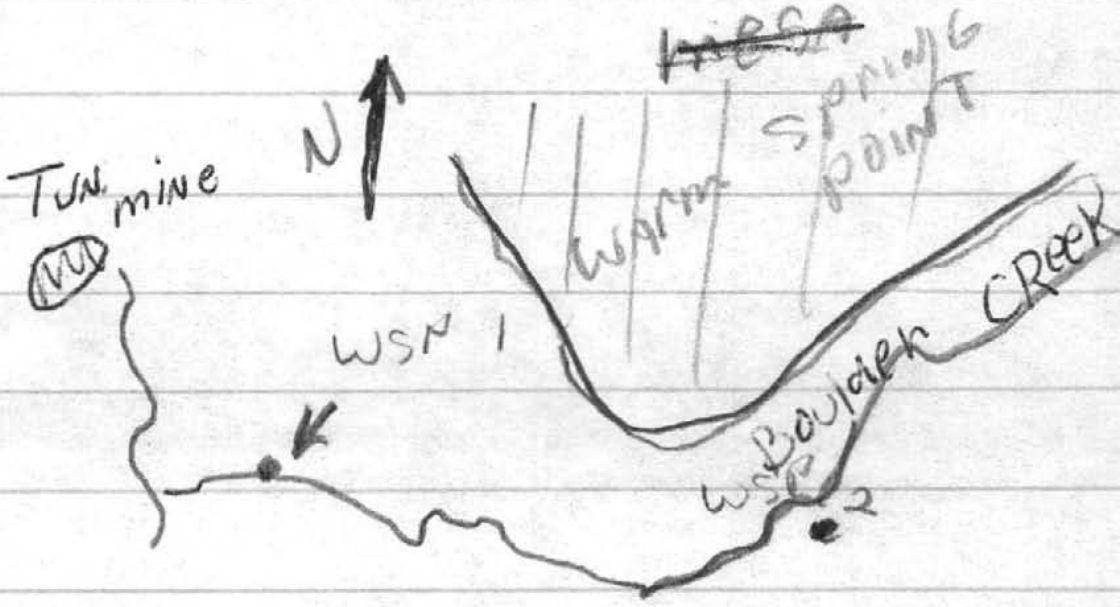
Bottom of stream
Bed.
Sample Taken on cliff
face 20' Above bed
500' (E) from Road
stream Junction
Tunstonion mine Road.



27 JAN

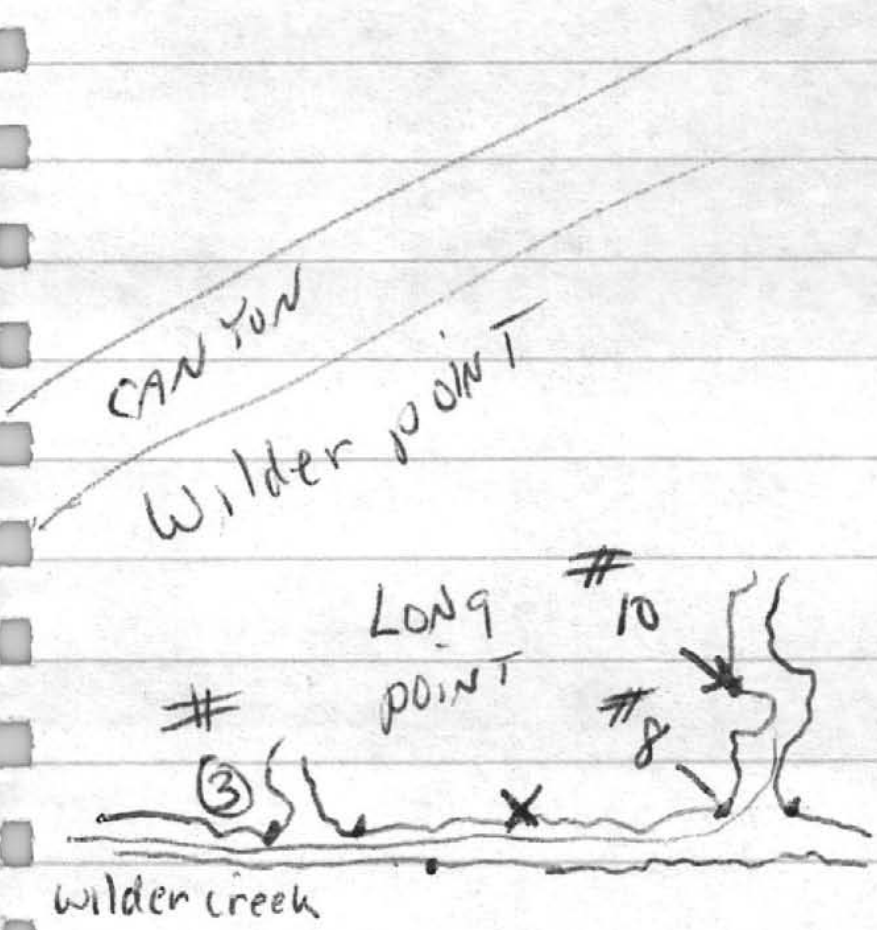
Sample 2

orange brown mineral stain on rocks may be a few chip from surface




Nelson mesa

28 JAN 70



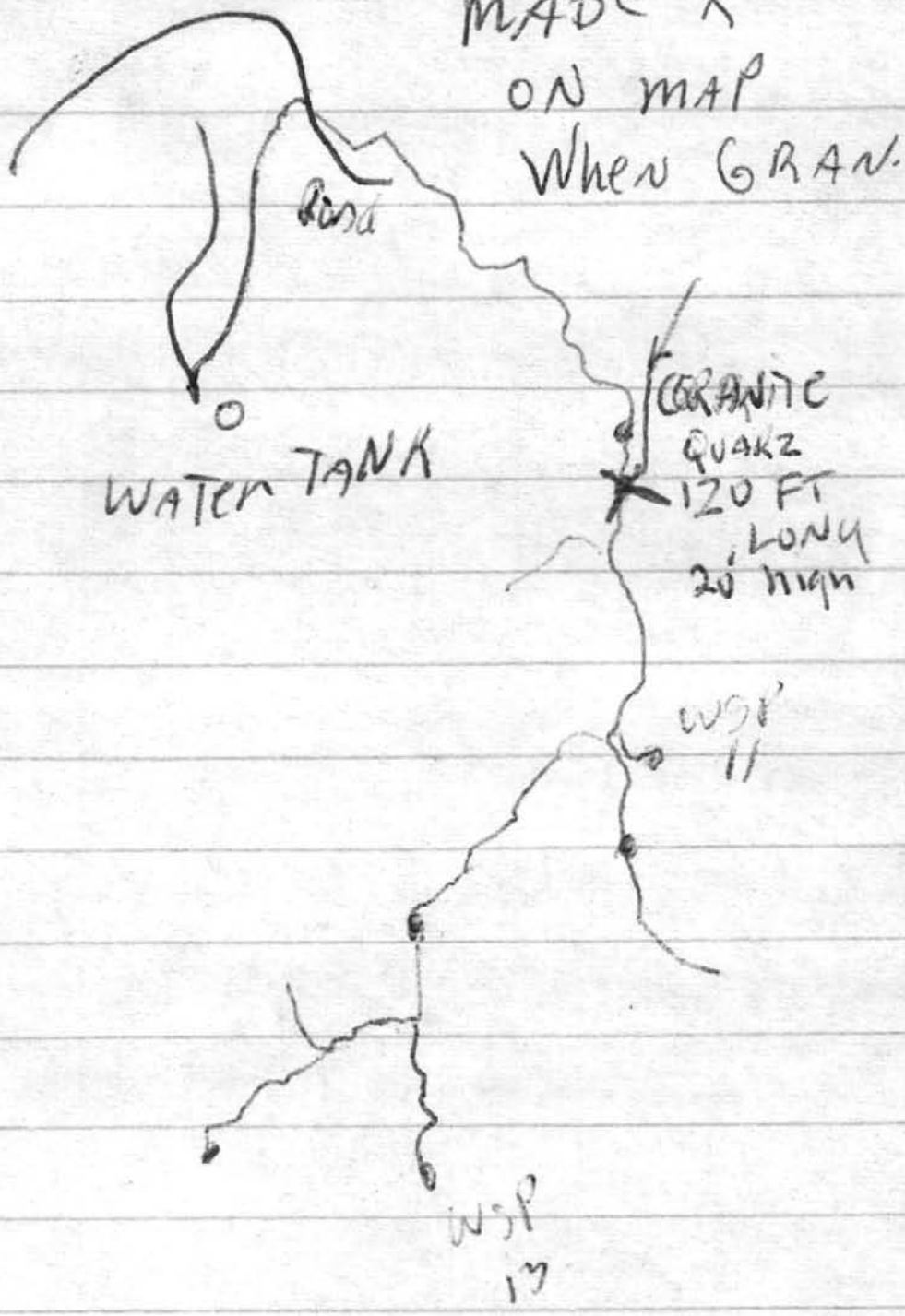

ABOUT HALF WAY ON
A STRAight STRETCH FOR 1/4 mile
found some GRANITIC ROCK

30 JAN
71

LARGE SECTION OF
GRANITIC ROCK SAMPLE
32 ON STONE CORRAL
CANYON. AT TRIB.
LARGE ROCKS (GRANITIC)
DOWN STREAM

4 Feb 70

29 JAN 70


MADE X
ON MAP
WHEN GRAN.
Road
WATER TANK
GRANITE
QUARZ
120 FT
LONG
20' HIGH
WSP
11
WSP
13

29 JAN 70

1435 S. 10th AVE.
P. O. BOX 1889

# Jacobs Assay Office

## Registered Assayers

PHONE 622-0813

Certificate No. 58610

TUCSON, ARIZONA 85702 Feb 13th 1970

Sample Submitted by Mr. Heinrichs Geo Exploration Co

| SAMPLE MARKED | GOLD Ozs. per ton ore | GOLD Value per ton ore * | SILVER Ozs. per ton ore | COPPER Per cent Wet Assay | LEAD Per cent Wet Assay | Mo Per cent Wet Assay | $WO_3$ Per cent Wet Assay |
|---|---|---|---|---|---|---|---|
| | | $ | | | | | |
| B-P-1 | 0.005 | 0.17 | 1 1/10 | 0.08 | | Trace | 0.14 |
| B-P-2 | Trace | | 0 2/10 | 0.03 | | 0.019 | 0.02 |
| B-P-3 | Trace | | 0 2/10 | 0.03 | | 0.010 | Trace |
| B-P-4 | 0.005 | 0.17 | 0 4/10 | 0.04 | | Trace | 0.02 |

REGISTERED ASSAYER
CERTIFICATE EXPIRES
1041
BENJAMIN P.
JACOBS
Dec. 31, 1970
Arizona U. S.

GEOEX
TUCSON, ARIZONA

REC'D FEB 16 1970

BOX 567 TUCSON, ARIZONA 85703
Phone (AREA 602) 623-0578

BP = Grab Samples from Dump @ Black Pearl Mine

* Gold Figured $35.00 per oz. Troy

Charges $ 52.00

Very respectfully,
Ben P. Jacobs

WITH LAB REPORT

INVOICE

# ROCKY MOUNTAIN GEOCHEMICAL CORP.

P. O. BOX 2217 PHONE 801-322-2396
982 SOUTH 3RD WEST SALT LAKE CITY, UTAH 84110

Job No. 70-1-38T

INVOICE NUMBER TU 1901

PLEASE PAY FROM THIS INVOICE.
NO GOODS WILL BE ACCEPTED FOR CREDIT UNLESS RETURNED WITH OUR PERMISSION.

| INVOICE DATE | DATE SHIPPED |
|---|---|
| 2-12-70 | |

SOLD TO: Heinrichs Geoexploration Co.
ADDRESS: 808 W. Grant Rd.--P. O. Box 5671
CITY: Tucson, Arizona 85703

SHIP TO: Same
ADDRESS: Same
CITY: Same

| CUSTOMER ORDER NO. | SALESMAN | TERMS | SHIPPED VIA | F. O. B. | FREIGHT |
|---|---|---|---|---|---|
| | | Net 30 days | | | ☐ PREPAID ☐ COLLECT |

| QUANTITY | UNIT | DESCRIPTION | UNIT PRICE | AMOUNT |
|---|---|---|---|---|
| | | Anal. Rpt. dated February 12, 1970 for D. Cooley | | |
| | | Preparation: 84 samples @ 50¢/ea..... | $42.00 | |
| | | Cu-Mo: 84 determinations @ 1.50/ea..... | 126.00 | |
| | | Total Charge..... | $168.00 | |

HEINRICHS GEOEX GEOLOGICAL ENGINEERS TUCSON, ARIZONA

REC'D FEB 13 1970

REMARKS

INVOICE TOTAL $168.00

BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578

729 Ps

# Rocky Mountain Geochemical Corporation

2050 EAST 14TH STREET
TUCSON, ARIZONA 85719

Phone 622-5702
Area Code: 602


## CERTIFICATE OF ANALYSES



**Date** February 12, 1970

**Client** Heinrichs Geoexploration Co.
808 W. Grant Rd.
P. O. Box 5671
Tucson, Arizona 85703
ATTN: Mr. D. Cooley

**Report on:** 84 Samples

**Submitted by:** D. Cooley

**Date Received:** February 5, 1970

**Analysis:** Copper and Molybdenum

**Remarks:** Copper analyzed by atomic absorption. Molybdenum determined colorimetrically.

Job No. 70-1-38T

cc: Enclosed
RMGC-Salt Lake
file

MHH:nc

All values are reported in parts per million unless specified otherwise. A minus sign (–) is to be read "less than" and a plus sign (+) "greater than." Values in parenthesis are estimates. This analytical report is the confidential property of the above mentioned client and for the protection of this client and ourselves we reserve the right to forbid publication or reproduction of this report or any part thereof without written permission.

ND = Non Detected  1 ppm = 0.0001%  1 Troy oz./ton = 34.28 ppm  % Mo. x 1.6683 = %$MoS_2$

| Sample No. | ppm Copper | ppm Molybdenum |
|---|---|---|
| A-1 | 10 | -1 |
| A-3 | -5 | -1 |
| A-5 | 95 | -1 |
| A-40 | 20 | -1 |
| A-41 | -5 | -1 |
| A-42 | 50 | -1 |
| A-43 | -5 | -1 |
| A-80 | -5 | -1 |
| A-81 | -5 | -1 |
| DJT-1 | -5 | -1 |
| " 2 | -5 | -1 |
| " 3 | 40 | -1 |
| " 4 | 50 | -1 |
| " 5 | 35 | -1 |
| " 6 | -5 | -1 |
| " 7 | 55 | -1 |
| " 8 | 50 | -1 |
| " 9 | -5 | -1 |
| " 10 | -5 | -1 |
| " 12 | 65 | -1 |
| " 13 | 45 | -1 |
| " 14 | 30 | 4 |
| " 15 | 20 | -1 |
| " 16 | 30 | -1 |
| DJT-17 | 60 | -1 |

| Sample No. | ppm Copper | ppm Molybdenum |
|---|---|---|
| DJT-18 | 30 | -1 |
| " 19 | 50 | -1 |
| " 20 | 30 | -1 |
| " 21 | 30 | -1 |
| " 22 | -5 | -1 |
| DJT-23 | 10 | -1 |
| GDC-1 | 30 | -1 |
| " A1 | -5 | -1 |
| " A2 | -5 | -1 |
| " 3 | 50 | -1 |
| " 5 | 20 | -1 |
| " 6 | 40 | -1 |
| " 7 | 30 | -1 |
| " 8 | 70 | -1 |
| " 10 | 15 | -1 |
| " 11 | 60 | -1 |
| " 12 | 55 | -1 |
| " 14 | 50 | 1 |
| GDC-15 | 40 | -1 |
| JTL-1 | -5 | -1 |
| " 2 | -5 | -1 |
| " 3 | 5 | -1 |
| " 4 | 5 | -1 |
| " 5 | -5 | -1 |
| JTL-6 | 40 | -1 |

| Sample No. | ppm Copper | ppm Molybdenum |
|---|---|---|
| JTL-7 | 50 | -1 |
| " 8 | 50 | -1 |
| " 9 | 65 | -1 |
| " 10 | 5 | -1 |
| " 11 | -5 | -1 |
| " 12 | 40 | -1 |
| " 13 | 60 | -1 |
| " 14 | 40 | -1 |
| " 15 | 50 | -1 |
| " 16 | 30 | -1 |
| " 17 | 30 | -1 |
| " 18 | 30 | -1 |
| " 19 | 60 | -1 |
| " 20 | 50 | 3 |
| JTL-21 | 30 | -1 |
| WSP-1 | -5 | -1 |
| " 2 | 5 | -1 |
| " 3 | 30 | -1 |
| " 8 | 30 | -1 |
| " 9 | 40 | -1 |
| " 10 | 30 | -1 |
| " 11 | 60 | -1 |
| " 12 | 70 | -1 |
| " 13 | 60 | -1 |
| WSP20 | -5 | -1 |

| Sample No. | ppm Copper | ppm Molybdenum |
|---|---|---|
| WSP-30 | -5 | -1 |
| " 31 | -5 | -1 |
| " 32 | -5 | -1 |
| " 33 | -5 | -1 |
| " 40 | 75 | -1 |
| " 41 | 50 | -1 |
| " 42 | 55 | -1 |
| " 50 | 60 | -1 |
| WSP-80 | -5 | -1 |

ROCKY MOUNTAIN GEOCHEMICAL CORPORATION

Tucson, Arizona February 12, 1970

By Martin H. Hibbetts

Martin H. Hibbetts

# Rocky Mountain Geochemical Corporation

2050 EAST 14TH STREET
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|---|---|---|
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| A-3 | -5 | -1 |
| A-5 | 95 | -1 |
| A-40 | 20 | -1 |
| A-41 | -5 | -1 |
| A-42 | 50 | -1 |
| A-43 | -5 | -1 |
| A-80 | -5 | -1 |
| A-81 | -5 | -1 |
| DJT-1 | -5 | -1 |
| " 2 | -5 | -1 |
| " 3 | 40 | -1 |
| " 4 | 50 | -1 |
| " 5 | 35 | -1 |
| " 6 | -5 | -1 |
| " 7 | 55 | -1 |
| " 8 | 50 | -1 |
| " 9 | -5 | -1 |
| " 10 | -5 | -1 |
| " 12 | 65 | -1 |
| " 13 | 45 | -1 |
| " 14 | 30 | 4 |
| " 15 | 20 | -1 |
| " 16 | 30 | -1 |
| DJT-17 | 60 | -1 |

| Sample No. | ppm Copper | ppm Molybdenum |
|---|---|---|
| DJT-18 | 30 | -1 |
| " 19 | 50 | -1 |
| " 20 | 30 | -1 |
| " 21 | 30 | -1 |
| " 22 | -5 | -1 |
| DJT-23 | 10 | -1 |
| GDC-1 | 30 | -1 |
| " A1 | -5 | -1 |
| " A2 | -5 | -1 |
| " 3 | 50 | -1 |
| " 5 | 20 | -1 |
| " 6 | 40 | -1 |
| " 7 | 30 | -1 |
| " 8 | 70 | -1 |
| " 10 | 15 | -1 |
| " 11 | 60 | -1 |
| " 12 | 55 | -1 |
| " 14 | 50 | 1 |
| GDC-15 | 40 | -1 |
| JTL-1 | -5 | -1 |
| " 2 | -5 | -1 |
| " 3 | 5 | -1 |
| " 4 | 5 | -1 |
| " 5 | -5 | -1 |
| JTL-6 | 40 | -1 |

| Sample No. | ppm Copper | ppm Molybdenum |
|---|---|---|
| JTL-7 | 50 | -1 |
| " 8 | 50 | -1 |
| " 9 | 65 | -1 |
| " 10 | 5 | -1 |
| " 11 | -5 | -1 |
| " 12 | 40 | -1 |
| " 13 | 60 | -1 |
| " 14 | 40 | -1 |
| " 15 | 50 | -1 |
| " 16 | 30 | -1 |
| " 17 | 30 | -1 |
| " 18 | 30 | -1 |
| " 19 | 60 | -1 |
| " 20 | 50 | 3 |
| JTL-21 | 30 | -1 |
| WSP-1 | -5 | -1 |
| " 2 | 5 | -1 |
| " 3 | 30 | -1 |
| " 8 | 30 | -1 |
| " 9 | 40 | -1 |
| " 10 | 30 | -1 |
| " 11 | 60 | -1 |
| " 12 | 70 | -1 |
| " 13 | 60 | -1 |
| WSP20 | -5 | -1 |

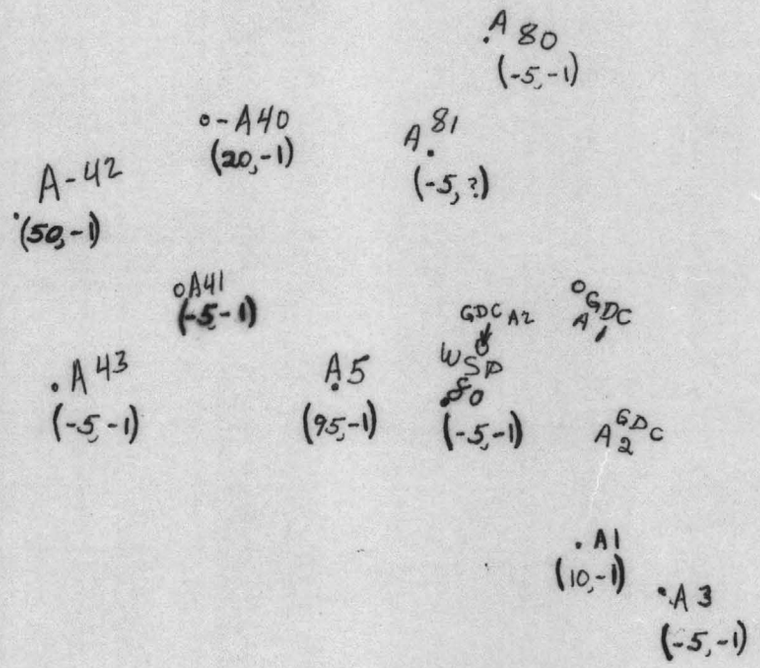
| Sample No. | ppm Copper | ppm Molybdenum |
|---|---|---|
| WSP-30 | -5 | -1 |
| " 31 | -5 | -1 |
| " 32 | -5 | -1 |
| " 33 | -5 | -1 |
| " 40 | 75 | -1 |
| " 41 | 50 | -1 |
| " 42 | 55 | -1 |
| " 50 | 60 | -1 |
| WSP-80 | -5 | -1 |

ROCKY MOUNTAIN GEOCHEMICAL CORPORATION

Tucson, Arizona February 12, 1970

By Martin H. Hibbetts

Martin H. Hibbetts




VV HU M 2 AMS 23 NOV 53 134
136

JOB 482

| Sf | P.P.M Cu | Moly | |
|---|---|---|---|
| A1 | 10 | -1 ✓ | |
| ✓3 | -5 | -1 ✓ | |
| ✓5 | 95 | -1 ✓ | there are 2 |
| ✓40 | 20 | -1 ✓ | A1 and 2 A2s |
| ✓41 | -5 | -1 ✓ | on the photo. |
| ✓42 | 50 | -1 ✓ | |
| ✓43 | -5 | -1 | |
| ✓80 | -5 | -1 | |
| 81 | -5 | | |
| DJT-1 | -5 | | |
| ✓ 2 | -5 | | |
| ✓ 3 | 40 | | |
| ✓ 4 | 50 | | |
| ✓ 5 | 35 | — 2 of these on map | |
| ✓ 6 | -5 | | |
| ✓ 7 | 55 | | |
| ✓ 8 | ~~50~~ 50 | | |
| ✓ 9 | -5 | | |
| ✓ 10 | -5 | | |
| ✓ 12 | 65 | | |
| ✓ 13 | 45 | | |
| ✓ 14 | 30 | 4 | |
| ✓ 15 | 20 | -1 | |
| ✓ 16 | 30 | | |
| ✓ 17 | 60 | | |
| ✓ 18 | 30 | | |

| | | |
|---|---|---|
| JTL 11 | -5 | |
| ✓ 12 | 40 | |
| ✓ 13 | 60 | |
| ✓ 14 | 40 | |
| ✓ 15 | 50 | |
| ✓ 16 | 30 | |
| ✓ 17 | 30 | |
| ✓ 18 | 30 | |
| ✓ 19 | 60 | |
| ✓ 20 | 50 | 3 |
| ✓ 21 | 30 | |
| WSP-1 | -5 | |
| ✓ 2 | 5 — No Find | |
| ✓ 3 | 30 | |
| ✓ 8 | 30 | |
| ✓ 9 | 40 — | |
| ✓ 10 | 30 — | |
| ✓ 11 | 60 | |
| ✓ 12 | 70 | |
| ✓ 13 | 60 | |
| ✓ 20 | -5 - No Find | |
| ✓ 30 | -5 | |
| ✓ 31 | -5 | T11 |
| ✓ 32 | -5 | |
| ✓ 33 | -5 No Find | |
| ✓ 40 | 75 | |
| ✓ 41 | 50 | |
| ✓ 42 | 55 | |
| ✓ 50 | 60 no Find | |

| | | |
|---|---|---|
| DJT19 | | 50 |
| | 20 | 30 |
| | 21 | 30 |
| | 22 | -5 |
| | 23 | 10 |
| GDC | 1 | 30 |
| ✓ | A1 | -5 |
| ✓ | A2 | -5 |
| ✓ | 3 | 50 |
| ✓ | 5 | 20 |
| ✓ | 6 | 40 |
| ✓ | 7 | 30 |
| ✓ | 8 | 70 |
| ✓ | 10 | 15 |
| ✓ | 11 | 60 |
| ✓ | 12 | 55 |
| ✓ | 14 | 50 |
| ✓ | 15 | 40 |
| JTL | 1 | -5 |
| ✓ | 2 | -5 |
| ✓ | 3 | 5 |
| ✓ | 4 | 5 |
| ✓ | 5 | -5 |
| ✓ | 6 | 40 |
| ✓ | 7 | 50 |
| ✓ | 8 | 50 |
| ✓ | 9 | 65 |
| ✓ | 10 | 5 |

No Find um

no Find

No Find

WSP 80 -5 No Find.