CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
3550 N. Central Ave, 2nd floor
Phoenix, AZ, 85012
602-771-1601
http://www.azgs.az.gov
inquiries@azgs.az.gov

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

Geophysicists - W W Carey

Area - State Land -

Inspiration Copper Co.

December 1963

Magnetic Recon.

Jalander Magnetometer

Location Control

Aerophotos, Brunton & Pace

Topographic Control

LEFAX PHILADELPHIA 7, PA., MADE IN U.S.A.

ORIGINAL COPR. 1919 BY J. C. PARKER

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

Base

South of Area

| Time | Scale | Read |
|---|---|---|
| 1113 | +1 | 135 |
| | +1 | 133 |

LEFAX PHILADELPHIA 7, PA., MADE IN U.S.A.

WWC
State Land
12-5-63

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

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(1)

Stat Time Scale Read

LINE A-A'

500ft. Stat. Interval
Going North Along Rt. 77

| | | | |
|---|---|---|---|
| A | 1119 | +1 | 202 |
| 500 | 1121 | +1 | 220 |
| 1000 | 1122 | +1 | 195 |
| 1500 | 1123 | +1 | 80 |
| 2000 | 1123 | +3 | 68 |
| 2500 | 1124 | +1 | 65 |
| 3000 | 1125 | +1 | 100<br>1000 |
| 3500 | 1126 | +1 | 40<br>400 OK |
| 4000 | 1127 | +1 | 2<br>20 OK |
| 4500 | 1128 | -1 | 2<br>-20 OK |
| 5000 | 1129 | +1 | 72<br>720 OK |

LEFAX PHILADELPHIA 7, PA., MADE IN U.S.A.

(2)

WWC
State Land
12-5-63

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

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| Stat | Time | Scale | Read | |
|---|---|---|---|---|
| 5500 | 1129 | +1 | 54 | -A' |
| | | | 540 | OK |

6500 to edge of Nose

Cutting River

Fill on A Line

-100ft stat interval -
going North

| | | | | |
|---|---|---|---|---|
| x A-1000 | 1143 | +1 | 115 | = |
| | | | 1150 | |
| 1100 | 1144 | +1 | 125 | |
| | | | 1250 | |
| 1200 | 1146 | +1 | 124 | |
| | | | 1240 | |
| 1300 | 1147 | +1 | 107 | |
| | | +1 | 1070 | |
| 1400 | 1147 | +1 | 127 | |
| | | | 1270 | |
| 1500 | 1148 | +1 | 131 | |
| | | | 1310 | |
| 1600 | 1150 | +1 | 182 | |
| | | | 1820 | |

LEFAX PHILADELPHIA 7, PA., MADE IN U.S.A.

(3)

WWC
State Land
12-5-63

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

ORIGINAL COPR. 1910 BY J. C. PARKER

| Stat | Time | Scale | Read |
|---|---|---|---|
| 1700 | 1151 | +2 | 97 |
| | | | 2910 |
| 1800 | 1152 | +2 | 134 |
| | | | 4020 |
| 1900 | 1153 | +3 | 74 |
| | | | 7400 |
| -X 2000 | 1154 | +2 | 113 |
| | | | 2260 |
| 2100 | 1155 | +1 | 80 |
| | | | 800 |
| 2200 | 1156 | +1 | 58 |
| | | | 580 |
| 2300 | 1157 | +1 | 68 |
| | | | 680 |
| 2400 | 1158 | +1 | 132 |
| | | | 1320 |
| 2500 | 1158 | +1 | 100 |
| | | | 1000 |
| 2600 | 1159 | +1 | 32 |
| | | | 320 |
| 2700 | 1200 | +1 | 117 |
| | | | 1170 |
| 2800 | 1200 | +1 | 92 |
| | | | 920 |
| 2900 | 1201 | +1 | 80 |
| | | | 800 |
| X 42 3000 | 1202 | +1 | 94 |
| | | | 940 |

LEFAX PHILADELPHIA 7, PA., MADE IN U.S.A.

(4)

WWC
Stat Land
12-5-63

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

ORIGINAL COPR. 1910 BY J. C. PARKER

| Stat | Time | Scale | Read |
|---|---|---|---|
| A-1000 | 1207 | +1 | 117 |
| | | | 1170 - 1150 |

LINE B

Starts at River Bank
Opp A-1000
goes North Up River
Bank

| | | | | |
|---|---|---|---|---|
| X B-1000 | 1315 | +1 | 168 | Afterhaack |
| | | | 1680 | Inst Cool?? |
| 1100 | 1316 | +1 | 155 | |
| | | | 1550 | |
| 1200 | 1317 | +1 | 137 | |
| | | | 1370 | |
| 1300 | 1318 | +1 | 115 | |
| | | | 1150 | |
| 1400 | 1319 | +1 | 122 | |
| | | | 1220 | |
| 1500 | 1320 | +1 | 97 | |
| | | | 970 | |
| 1600 | 1321 | +1 | 100 | |
| | | | 1000 | |
| 1700 | 1323 | +1 | 170 | |
| | | | 1700 | |

LEFAX PHILADELPHIA 7, PA., MADE IN U.S.A.

WWC State Land
12-5-63

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

(5)

| Stat | Time | Scale | Read |
|---|---|---|---|
| 1800 | 1324 | +1 | 220 |
| | | | 2200 |
| 1900 | 1329 | +1 | 112 |
| | | | 1120 |
| X 2000 | 1330 | +2 | 122 |
| | | | 3660 |
| 2100 | 1332 | -1 | 7 |
| | | | -70 |
| 2200 | 1333 | +1 | 32 |
| | | | 320 |
| 2300 | 1334 | +1 | 44 |
| | | | 440 |
| 2400 | 1336 | +1 | 48 |
| | | | 480 |
| 2500 | 1337 | +1 | 75 |
| | | | 750 |
| 2600 | 1338 | +1 | 82 |
| | | | 820 |
| 2700 | 1339 | +1 | 68 |
| | | | 680 |
| 2800 | 1340 | +1 | 77 |
| | | | 770 |
| 2900 | 1341 | +1 | 82 |
| | | | 820 |
| X 3000 | 1342 | +1 | 85 |
| | | | 850 |
| X 12 B-1000 | 1355 | +1 | 152 |
| | | | 1520 |

Edge of E-W WASH

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

(6)

AWC
State Land
12-5-63

| Stat | Time | Scale | Read | |
|---|---|---|---|---|
| A-0 | 1406 | +1 | 222 | |
| | | | 2220 | |
| A1000 | 1408 | +1 | 116 | |
| | | | 1160 ≈ 1150 | |
| LINE C | | | | |
| West of Line A | | | | |
| Location from Aero Photos | | | | |
| Length of Line ≈ 2000' | | | | |
| X C-1000 | 1450 | +1 | 10 | |
| | | | 100 | |
| 1100 | 1456 | +2 | 100 | ON OUTCROP HIGH % MAFICS |
| | | | 1000 | |
| 1200 | 1500 | +2 | 142 | OUTCROP HIGH % ANDESITE |
| | | | 4260 | |
| 1300 | 1503 | +2 | 192 | LESS MAFICS FINER GRAIN |
| | | | 5760 | 120% POLARIZATION |
| 1400 | 1507 | +1 | 155 | 20% POLARIZATION |
| | | | 1550 | |
| X 1500 | 1513 | +1 | 124 | 5% POLZ |
| | | | 1240 | |
| 1600 | 1518 | +2 | 100 | 90 POLZ |
| | | | 3000 | |

(7)

NWC

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

| Stat | Time | Scale | Read | |
|---|---|---|---|---|
| 1700 | 1521 | +1 | 177<br>1770 | NO POLZ |
| 1800 | 1527 | +1 | 182<br>1820 | MOD POLZ |
| 1900 | 1529 | +1 | 56<br>560 | WK POLZ |
| *2000 | 1530 | +1 | 147<br>1470 | IN WASH<br>*NO POLZ |
| 2100 | 1532 | +1 | 154<br>1540 | NO POLZ |
| 2200 | 1538 | +1 | 170<br>1700 | MOD POLZ |
| 2300 | 1540 | +1 | 96<br>960 | SMALLER % INF.<br>NO POLZ |
| 2400 | 1543 | +1 | 104<br>1040 | NO POLZ |
| K 2500 | 1545 | +1 | 120<br>1200 | WK POLZ |
| 2600 | 1549 | +1 | 136<br>1360 | NO POLZ |
| 2700 | 1550 | +1 | 94<br>940 | NO POLZ |
| 2800 | 1553 | +1 | 172<br>1720 | NO POLZ |
| 2900 | 1555 | +1 | 122<br>1220 | |
| X 3000 | 1557 | +1 | 114<br>1140 | Edge of EW GORGE |
| A1000 | 1618 | +1 | 122<br>1220 | |

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(8) 12-6-63

WWC
12-6-63

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

| Stat | Time | Scale | Read | | |
|---|---|---|---|---|---|
| A7000 | | | | Tie Pt. | |
| Line C cont'd | | | | South | |
| A-1000 | 0900 | +1 | 124 | | |
| | | | 1240 ~ 1160 | (80) | |
| C1000 | 0909 | +1 | 16 | | |
| | | | ~~15~~20 ~~10~~ 90 | | |
| 900 | 0914 | +2 | 74 | MOD | P. |
| | | | 2160 ~ | | |
| 800 | 0920 | +2 | 97 | WK | P |
| | | | 2860 | | |
| 700 | 0925 | +2 | 82 | WK | |
| | | | 2400 | | |
| 600 | 0928 | +2 | 80 | WK | |
| | | | 2350 | | |
| 500 | 0930 | +2 | 112 | — | |
| | | | 3320 | | |
| 400 | 0933 | +2 | 86 | WK | |
| | | | 2540 | | |
| 300 | 0935 | +2 | 155 | STR. | |
| | | | 4620 | | |
| 200 | 0937 | +2 | 171 | MOD | |
| | | | 5100 | | |
| C-100 | 0942 | +1 | 149 1420 | IN WASH | |
| C-000 | 0943 | +1 | 200 2000 | S. SLOPE OF WASH | |

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

(9)

Stat Time Scale Read

Line D Located
Approx 7 ft. West
of Line C - N-Shine

—— o —— o ——
See photo

D-00 - in Wash - at NW-SW
Wash intersection
- going North To Peak

| | | | | |
|---|---|---|---|---|
| *D-00 | 0958 | -1 | 7 | |
| | | | -70 | |
| D-100 | 1001 | +1 | 215 | WK: FINE GRAIN PORYNNDS |
| | | | 2150 | |
| 200 | 1005 | +2 | 70 | mod. |
| | | ~~+1~~ | 2100 | |
| 300 | 1008 | +1 | 160 | WK |
| | | | 1600 | |
| 400 | 1010 | +2 | 92 | WK |
| | | | 2760 | |
| 500 | 1015 | +2 | 182 | WK |
| | | | 5460 | |

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(10)

WWE

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

| Stat | Time | Scale | Real | |
|---|---|---|---|---|
| 600 | 1021 | +3 | 216 | V. STR. |
| | | | 21600 | |
| 700 | 1024 | +2 | 96 | V. STR. |
| | | | 2980 | |
| 800 | 1029 | +2 | 80 | V. STR. |
| | | | 2400 | |
| 900 | 1031 | +2 | 105 | STR |
| | | | 3150 | |
| x1000 | 1032 | -1 | 60 | — str |
| | | | -600 | |

E-00 Located in

Wash - 50 S in Wash
ie major NE-SW fault
cross - exposed -

Line E going South

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(11)

| Stat | time | Scale | Read | |
|---|---|---|---|---|
| Line | | E | | |
| E-00 | 1059 | -1 | 60 | |
| | | | -600 | |
| 100 | 1105 | +1 | 82 | WK. |
| | | | 820 | |
| 200 | 1106 | +1 | 72 | |
| | | +1 | 720 | |
| 300 | 1109 | +1 | 15 | |
| | | | 150 | |
| 400 | 1113 | +1 | 92 | |
| | | | 920 | |
| 500 | 1115 | +1 | 142 | |
| | | | 1420 | |
| 600 | 1121 | +1 | 48 | |
| | | | 480 | |
| 700 | 1124 | +1 | 134 | |
| | | | 1340 | |
| 800 | 1127 | +1 | 115 | FINE GRAIN SANDS WK |
| | | | 1150 | |
| 900 | 1130 | +1 | 65 | — |
| | | + | 650 | |
| 1000 | 1132 | +1 | 149 | |
| | | | 1490 | |
| 1100 | 1135 | +1 | 198 | WK |
| | | | 1980 | |
| 1200 | 1139 | +1 | 195 | |
| | | | 1950 | |

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(12)

NWC

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

| Stat | Time | Scale | Read | | |
|---|---|---|---|---|---|
| 1300 | 1142 | +1 | 58 | PORY WK. | MAFIC DIOR |
| | | | 580 | | |
| 1400 | 1145 | +1 | 45 | | |
| | | | 450 | | |
| 1500 | 1152 | +2 | 82 | | |
| | | | 2460 | | |
| 1600 | 1201 | +1 | 64 | IN WASH | |
| | | | 640 | | |

Line F

Starts on top of Peak 700' from Road
Joes NW along Peak Ridges

| | | | | | | |
|---|---|---|---|---|---|---|
| X F-00 | 1227 | -3 | 132 | V.STR | FINE GRAIN | |
| | | | 13200 | | | |
| 100 | 1230 | +2 | 122 | MOD | PORY | |
| | | | 3660 | | ↓ | |
| 200 | 1232 | +2 | 116 | V.STR | | MAF. + |
| | | | 3480 | | | |
| 300 | 1233 | +2 | 86 | WK | | |
| | | | 2580 | | | |
| 400 | 1234 | +2 | 80 | | | |
| | | | 2400 | | | |
| X 500 | 1236 | +2 | 160 | MOD | | |
| | | | 4800 | | | |

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(13)

| | Stat | Time | Scale | Read | |
|---|---|---|---|---|---|
| | 600 | 1238 | +2 | 86<br>2580 | MOD. |
| | 700 | 1239 | +2 | 120<br>3600 | MOD. |
| | 800 | 1241 | +2 | 105<br>3150 | |
| | 900 | 1242 | +2 | 74<br>2220 | |
| X | 1000 | 1243 | +2 | 106<br>3180 | |
| | 1100 | 1245 | +2 | 110<br>3300 | |
| | 1200 | 1246 | +2 | 88<br>2640 | V. STR. |
| | 1300 | 1247 | +1 | 74<br>740 | WK |
| | 1400 | 1248 | +2 | 103<br>3090 | WK |
| X | 1500 | 1250 | +2 | 102<br>3060 | WK |
| | 1600 | 1253 | +2 | 126<br>3780 | V. STR. |
| | 1700 | 1254 | +1 | 52<br>520 | MOD |
| | 1800 | 1257 | +2 | 164<br>4920 | WK |
| | 1900 | 1258 | +2 | 126<br>3780 | MOD |
| X | 2000 | 1300 | +1 | 185<br>1850 | STR |

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WNC
12-6-63
TR. MK. REG. U.S. PAT. OFF.

(14)

| Stat | Time | Scale | Read | |
|---|---|---|---|---|
| 2100 | 1204 | 12 | 190<br>5700 | IN SADDLE BETW. 2 MAJ. HILLS |

LINE G

G-00 located in Major SE drainage creek

East of F-2100

Going Down Wash

Toward Road

| | | | | |
|---|---|---|---|---|
| G-00 | 1325 | +1 | 12<br>120 | |
| 100 | 1328 | +1 | 2<br>20 | |
| 200 | 1329 | -1 | 6<br>-60 | |
| 300 | 1330 | +1 | 82<br>820 | |
| 400 | 1331 | +1 | 94<br>940 | |
| 500 | 1332 | +1 | 146<br>1460 | |
| 600 | 1333 | +1 | 22<br>220 | |

LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

15

| Stat | Time | Scale | Read | |
|---|---|---|---|---|
| 700 | 1334 | -1 | 6 | |
| | | - | -60 | |
| 800 | 1334 | -1 | 86 | |
| | | | -860 | |
| E 00 | 1336 | -1 | 57 | ← 875' |
| | | | -570 | |
| 900 | 1336 | -1 | 144 | |
| | | | -1440 | |
| 1000 | 1339 | -1 | 68 | |
| | | | -680 | |
| 1100 | 41 | -1 | 90 | |
| | | | -900 | |
| 1200 | 42 | -1 | 94 | |
| | | | -940 | |
| 1300 | 43 | -1 | 47 | |
| | | | -470 | |
| 1400 | 44 | -1 | 46 | |
| | | | -460 | |
| 1500 | 45 | -1 | 64 | |
| | | | -640 | |
| 1600 | 47 | -1 | 97 | ON S. EDGE DIOR. DIKE ANDES BOTH PORY |
| | | | -970 | |
| 1700 | 50 | -1 | 132 | |
| | | | -1320 | |
| 1800 | 51 | -1 | 86 | |
| | | | -860 | |
| D000 | 53 | -1 | 10 | 1850' |
| | | | -100 | |
| 1900 | 55 | -1 | 23 | |
| | | | -230 | |

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(16)

| Stat | Time | Scale | Read | |
|---|---|---|---|---|
| 2000 | 56 | +1 | 2 | |
| | | | 20 | |
| 2100 | 1400 | -1 | 36 | |
| | | | -360 | |
| 2200 | 01 | -1 | 192 | |
| | | | -1920 | |
| 2300 | 02 | -1 | 82 | |
| | | | -820 | |
| 2400 | 03 | +1 | 178 | |
| | | | +1780 | |
| 2500 | 04 | +1 | 96 | |
| | | | 960 | |
| C000 | 05 | +1 | 145 | 2550 |
| | | | 1450 | |
| A1000 | 14 | +1 | 118 | |
| | | | 1180 | |

LINE H

Located along River Bottom on old Road Just Below Main Highway 77 or Line A

Start H-1000

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(12)

| stat | Time | Scale | Read | |
|---|---|---|---|---|
| A1000 | 1445 | +1 | 115 | |
| | | | 1150 | |
| | LINE H₁ | | | |
| H·1000 | 1457 | +1 | 0 | |
| | | | 0 | |
| 1100 | 58 | +1 | 054 | |
| | | | 540 | |
| 1200 | 59 | +1 | 93 | |
| | | | 930 | |
| 1300 | 59 | +1 | 140 | |
| | | | 1400 | |
| 1400 | 1500 | +1 | 105 | |
| | | | 1050 | |
| X 1500 | 00 | +1 | 83 | |
| | | | 830 | |
| 1600 | 02 | +1 | 72 | |
| | | | 720 | |
| 1700 | 02 | +1 | 166 | |
| | | | 1660 | |
| 1800 | 03 | +1 | 205 | |
| | | | 2050 | |
| 1900 | 04 | +1 | 96 | |
| | | | 960 | |
| 2000 | 04 | +2 | 102 | 3060 |
| 2050 | 06 | +2 | 210 | 6300 |
| 2100 | 06 | -1 | 38 | -380 |
| | | + | | |

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(18)

| Stat | Time | Scale | Read |
|---|---|---|---|
| 2200 | 1508 | +1 | 0<br>0 |
| 2300 | 09 | +1 | 38<br>380 |
| 2400 | 10 | +1 | 40<br>400 |
| 2500 | 11 | +1 | 60<br>600 |
| ~~H-1000~~ | | | |
| H-1000 | 20 | +1 | 05<br>50 |

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(19) Dec 9 1963

| Stat | Time | Scale | Read | |
|---|---|---|---|---|
| A-100 | 0 1524 | +1 | 112<br>1120 | Tie Pt. |

ON East Side of River
going along Bank
South 100 of Pt where
outcrop Meets River

| | | | | |
|---|---|---|---|---|
| X H-000 | 1347 | +1 | 68<br>680 | |
| 100 | 48 | +1 | 78<br>780 | |
| 200 | 49 | +1 | 68<br>680 | |
| 300 | 49 | +1 | 75<br>750 | |
| 400 | 50 | +1 | 86<br>860 | |
| X 500 | 51 | +1 | 63<br>630 | |
| 600 | 53 | +1 | 50<br>500 | |
| 700 | 54 | +1 | 48<br>480 | |
| 800 | 55 | +1 | 68<br>680 | |

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20

| Stat | Time | Scale | Read | |
|---|---|---|---|---|
| 900 | 1356 | +1 | 193<br>1930 | |
| X1000 | 57 | +1 | 112<br>1120 | |
| 1100 | 59 | +1 | 120<br>1200 | |
| 1200 | 1401 | +1 | 150<br>1500 | |
| 1300 | 02 | +1 | 98<br>980 | |
| 1400 | 03 | +1 | 65<br>650 | |
| X1500 | 04 | +1 | 28<br>280 | |
| 1600 | 05 | -1 | 58<br>-580 | OUTCROP ON RIVER |
| 1700 | 07 | +1 | 20<br>200 | WK |
| 1800 | 09 | -1 | 25<br>-250 | |
| 1900 | 10 | +2 | 95<br>2850 | |
| X2000 | 14 | +1 | 0<br>0 | |
| 2100 | 19 | +1 | 140<br>1400 | |
| 2200 | 21 | +2 | 95<br>2850 | |

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42

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(L)

| STA | TIME | SCALE | READ |
|---|---|---|---|
| 2300 | 1422 | +2 | 130 |
| | | | 3900 |
| 2400 | 24 | +1 | 150 |
| | | | 1500 |
| 2500 | 27 | +1 | 70 |
| | | | 700 |
| 2600 | 30 | +1 | 160 |
| | | | 1600 |
| 2700 | 32 | +2 | 94 |
| | | | 2820 |
| 2800 | 33 | +1 | 128 |
| | | | 1280 |
| 2900 | 35 | +1 | 125 |
| | | | 1250 |
| ~~3000~~ | | | |

Line I starts
on South end of
Area goes North
-See Photo for Location-
at Yin Wash
(Rock highly fractures
much Fe staining-

LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

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22

| Stat | Time | Scale | Read | |
|---|---|---|---|---|
| ~~I 00~~ | | | | |
| I 00 | 1450 | ~~+~~ 1 | 102 | |
| | | | 1020 | |
| 100 | 55 | + 2 | 76 | |
| | | | 2280 | |
| 200 | 59 | + 2 | 142 | MOD |
| | | | 4260 | |
| 300 | 1505 | + 1 | 200 | ANDES, #1% TOURM, |
| | | | 2000 | |
| 400 | 09 | + 1 | 188 | |
| | | | 1880 | |
| X 500 | 13 | + 2 | 92 | WK |
| | | | 2760 | |
| 600 | 19 | + 1 | 92 | FRACTURES #1% FE & MG |
| | | | 920 | |
| 700 | 22 | + 1 | 137 | |
| | | | 1370 | |
| 800 | 28 | + 2 | 124 | |
| | | | 3720 | |
| 900 | 31 | + 1 | 118 | |
| | | | 1180 | |
| 1000 | 41 | + 2 | 184 | |
| | | | 5520 | |
| 1100 | 46 | + 1 | 150 | |
| | | | 1500 | |
| 1200 | 50 | - 1 | 174 | |
| | | | -1740 | |

LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

(23)

| Shot | Time | Scale | Read | |
|---|---|---|---|---|
| 1300 | 1554 | -1 | 35<br>-350 | |
| 1400 | 58 | +1 | 48<br>480 | |
| X 1500 | 1600 | +2 | 80<br>2400 | ON OUTCROP WK |
| 1600 | 03 | +1 | 162<br>1620 | |
| 1700 | 04 | +1 | 18<br>180 | |
| 1800 | 06 | +1 | 10<br>-100 | |
| 1900 | 07 | +1 | 25<br>250 | |
| X 2000 | 08 | +1 | 42<br>420 | |
| 2100 | 10 | +1 | 70<br>700 | |
| 2200 | 11 | +1 | 90<br>900 | |
| 2300 | 12 | +1 | 78<br>780 | |
| 2400 | 1613 | -1 | 46<br>-460 | |
| ✓ 2500 | In Draw on North end | | | |
| A1000 | 1640 | +1 | 108<br>1080 | |

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42
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(24) 12-10-63

| Stat | Time | Scale | Read | |
|---|---|---|---|---|
| A1000 | 0846 | +1 | 117 | TIE STAT. |
| | | | 1170 | |

rain and cold weather

LINE "J"

Line starts on Northend of Area goes south

J-00 located in Major E-W wash at outcrop of Diorite? Dike and Andesite - West contact

— o — o —

| | | | | |
|---|---|---|---|---|
| J-00 | 1012 | -1 | 74 | |
| | | | -740 | |
| 100 | 1017 | -1 | 2 | |
| | | | -20 | |
| 200 | 22 | +2 | 82 | WK |
| | | | 2460 | |
| 300 | 27 | +2 | 80 | |
| | | | 2400 | |
| 400 | 33 | -1 | 105 | |
| | | | -1050 | |
| 500 | 38 | +1 | 36 | MOD |
| | | | 360 | |

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R5

| Stat | Time | Scale | Read | |
|---|---|---|---|---|
| 600 | 1044 | -1 | 37<br>-370 | PROSPECT PIT |
| 700 | 49 | +1 | 20<br>200 | EXPOSED EDGE LS |
| 800 | 52 | +1 | 70<br>700 | |
| 900 | 54 | +1 | 58<br>580 | MUCH MG & F.E. |
| 1000 | 55 | +1 | 86<br>860 | ON LS |
| 1100 | 1100 | +1 | 55<br>550 | LS MUCH CLEANER |
| 1200 | 02 | +1 | 50<br>500 | |
| 1300 | 04 | +1 | 88<br>880 | WK |
| 1400 | 12 | +1 | 185<br>1850 | OPP. A1000 |
| 1500 | 16 | +1 | 188<br>1880 | |
| 1600 | 20 | +1 | 120<br>1200 | |
| 1700 | 22 | +1 | 218<br>2180 | |
| 1800 | 27 | +1 | 222<br>2220 | |
| 1900 | 44 | +1 | 172<br>1720 | |

END J LINE

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(26)

Stat Time Scale Rnd

LINE K

Start K00 at ≈ 600'

East up Draw - See

Photo for Location

going North

| | | | | | |
|---|---|---|---|---|---|
| X | K00 | 1203 | -2 | 100 | |
| | | | | -3000 | |
| | 100 | 09 | +1 | 188 | |
| | | | | 1880 | |
| | 200 | 16 | +2 | 192 | MOB |
| | | | | 5760 | 0 |
| | 300 | 23 | +3 | 120 | V.STR |
| | | | | 12000 | |
| | 400 | 32 | +2 | 114 | WK |
| | | | | 3420 | |
| X | 500 | 34 | +2 | 90 | WK |
| | | | | 2700 | |
| | 600 | 36 | +2 | 56 | WK |
| | | | | 2580 | |
| | 700 | 39 | +2 | 96 | WK |
| | | | | 2880 | |

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(2)

| Stat | Time | Scale | Read | | |
|---|---|---|---|---|---|
| 800 | 1242 | +3 | 68 | WK | |
| | | | 6800 | | |
| 900 | 44 | +2 | 103 | WK | |
| | | | 3090 | | |
| x 1000 | 46 | +2 | 108 | | |
| | | | 3240 | | |
| 1100 | 48 | +2 | 160 | WK | |
| | | | 4800 | | |
| 1200 | 49 | +3 | 60 | STR | |
| | | | 6000 | | |
| 1300 | 50 | +2 | 190 | MOD | |
| | | | 5700 | | |
| 1400 | 53 | +2 | 162 | WK | |
| | | | 4860 | | |
| x 1500 | 55 | +3 | 117 | WK | |
| | | | 11700 | | |
| 1600 | 1306 | +2 | 160 | | |
| | | | 4800 | | |
| 1700 | 08 | +2 | 80 | WK | |
| | | | 2400 | | |
| 1800 | 09 | +2 | 154 | | |
| | | | 4620 | | |
| 1900 | 10 | +3 | 75 | WK | BY SADDLE |
| | | | 7500 | | |
| 2000 | 12 | +2 | 134 | STR. | |
| | | | 4020 | | |
| 2100 | 20 | +2 | 105 | | |
| | | | 3150 | | |
| 2200 | 22 | -1 | 45 | STR. | |
| | | | 450 | | |

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(28)

| | Stat | Time | Scale | Read | |
|---|---|---|---|---|---|
| | 2300 | 1330 | +2 | 114 | |
| | | | | 3420 | |
| | 2400 | 34 | +2 | 85 | WK |
| | | | | 2550 | |
| X | 2500 | 37 | +1 | 190 | WK |
| | | | | 1900 | |
| | 2600 | 40 | +2 | 96 | |
| | | | | 2880 | |
| X | 2700 | 42 | +1 | 155 | |
| | | | | 1550 | |
| | 2800 | Line K ends in Pass above Wash that 5-00 is located within | | | |

Line L goes South from Pass

| | | | | | |
|---|---|---|---|---|---|
| X | L-00 | 1342 | +1 | 155 | |
| | | | | 1550 | |
| | 100 | 53 | +1 | 115 | |
| | | | | 1150 | |
| | 200 | 55 | +1 | 45 | |
| | | | | 450 | |
| | 300 | 57 | +1 | 68 | |
| | | | | 680 | |

LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

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(28)

| Stat | Time | Scale | Read | |
|---|---|---|---|---|
| 400 | 1400 | +1 | 140 | |
| | | | 1400 | |
| x 500 | 05 | +1 | 22 | |
| | | | 220 | |
| 600 | 08 | +1 | 112 | IN WASH |
| | | | 1120 | |
| 700 | 11 | +1 | 120 | |
| | | | 1200 | |
| 800 | 13 | +1 | 192 | ~~MOB~~ WK |
| | | | 1920 | |
| 900 | 16 | +1 | 84 | |
| | | | 840 | |
| x 1000 | 18 | +1 | 52 | IN N-W TRENDING WASH |
| | | | 520 | |
| A1000 | 1545 | +1 | 120 | TIE POINT |
| | | | 1200 | |

LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A.

12-28-63
JALANDER MAG.
S.L.L. - I.C.C.
REF.

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ORIGINAL COPR. 1910 BY J. C. PARKER

LINE 1 GOING N-W. FROM HIGH WAY. ADDITION TO MAG SURVEY BY W.W.C.

| STA | SCALE | READ |
|---|---|---|
| A 1000 | +1 | 125 |
| | | 115 |
| N. END I.P. LINE | +1 | 71 |
| | | 61 |
| LINE 1 0 | +1 | 63 |
| | | 53 |
| 100 | +1 | 121 |
| | | 111 |
| 200 | +1 | 100 |
| | | 91 |
| 300 | +2 | 88 |
| | 1 | 255 |
| 400 | +2 | 35 |
| | | 96 |
| 500 | +1 | 75 |
| | | 66 |
| 600 | +1 | 30 |
| | | 21 |
| 700 | +1 | 148 |
| | | 139 |
| 800 | +1 | 150 |
| | | 141 |

RE-ADJUSTED LAT. ON MAG

LEFAX, PHILADELPHIA, 7 PA. MADE IN U.S.A.

12-28-63

R.E.P.

# 1

| STA | SCALE | READ |
|---|---|---|
| 900 | +1 | 205 |
| | | 196 |
| 1000 | +1 | 187 |
| | | 178 |
| 1100 | +1 | 165 |
| | | 156 |
| 1200 | +1 | 161 |
| | | 152 |
| 1300 | +1 | 135 |
| | | 126 |
| 1400 | +1 | 145 |
| | | 137 |
| 1500 | +1 | 115 |
| | | 107 |
| 1600 | +1 | 155 |
| | | 147 |
| 1700 | +1 | 161 |
| | | 153 |
| 1800 | +1 | 180 |
| | | 172 |
| 1900 | +2 | 146 |
| | | 430 |

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12-28-63
R.E.P.

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

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LINE 2 GOING SOUTH
FROM LINE 1

| STA | SCALE | READ |
|---|---|---|
| 100 | +1 | 212 |
| | | 204 |
| 200 | +2 | 92 |
| | | 268 |
| 300 | +1 | 208 |
| | | 200 |
| 400 | +1 | 120 |
| | | 112 |
| 500 | +1 | 107 |
| | | 99 |
| 600 | +1 | 137 |
| | | 129 |
| 700 | +1 | 130 |
| | | 123 |
| 800 | +1 | 117 |
| | | 110 |
| 900 | +1 | 125 |
| | | 118 |
| 1000 | +1 | 40 |
| | | 33 |
| 1100 | +1 | 80 |
| | | 73 |
| 1200 | +1 | 148 |
| | | 141 |

LEFAX, PHILADELPHIA, 7 PA. MADE IN U.S.A.

ORIGINAL CORP. 1910 BY J. C. PARKER

~~#~~ 2

12-28-63

R.E.P.

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

| STA | SCALE | READ |
|---|---|---|
| 1300 | +1 | 242 |
| | | 235 |
| 1400 | +1 | 50 |
| | | 43 |
| 1500 | +1 | 212 |
| | | 205 |
| 1600 | +1 | 118 |
| | | 111 |
| 1700 | +1 | 170 |
| | | 164 |
| 1800 | +1 | 132 |
| | | 126 |
| 1900 | +1 | 112 |
| | | 106 |
| 2000 | +1 | 78 |
| | | 72 |
| 2100 | +1 | 72 |
| | | 66 |
| 2200 | +1 | 127 |
| | | 121 |
| 2300 | +1 | 125 |
| | | 119 |
| 2400 | +1 | 160 |
| | | 154 |
| 2500 | +1 | 110 |
| | | 104 |
| 2600 | +1 | 98 |
| | | 92 |

LEFAX, PHILADELPHIA, 7 PA. MADE IN U.S.A.

ORIGINAL COPR. 1910 BY J. C. PARKER

12-28-63

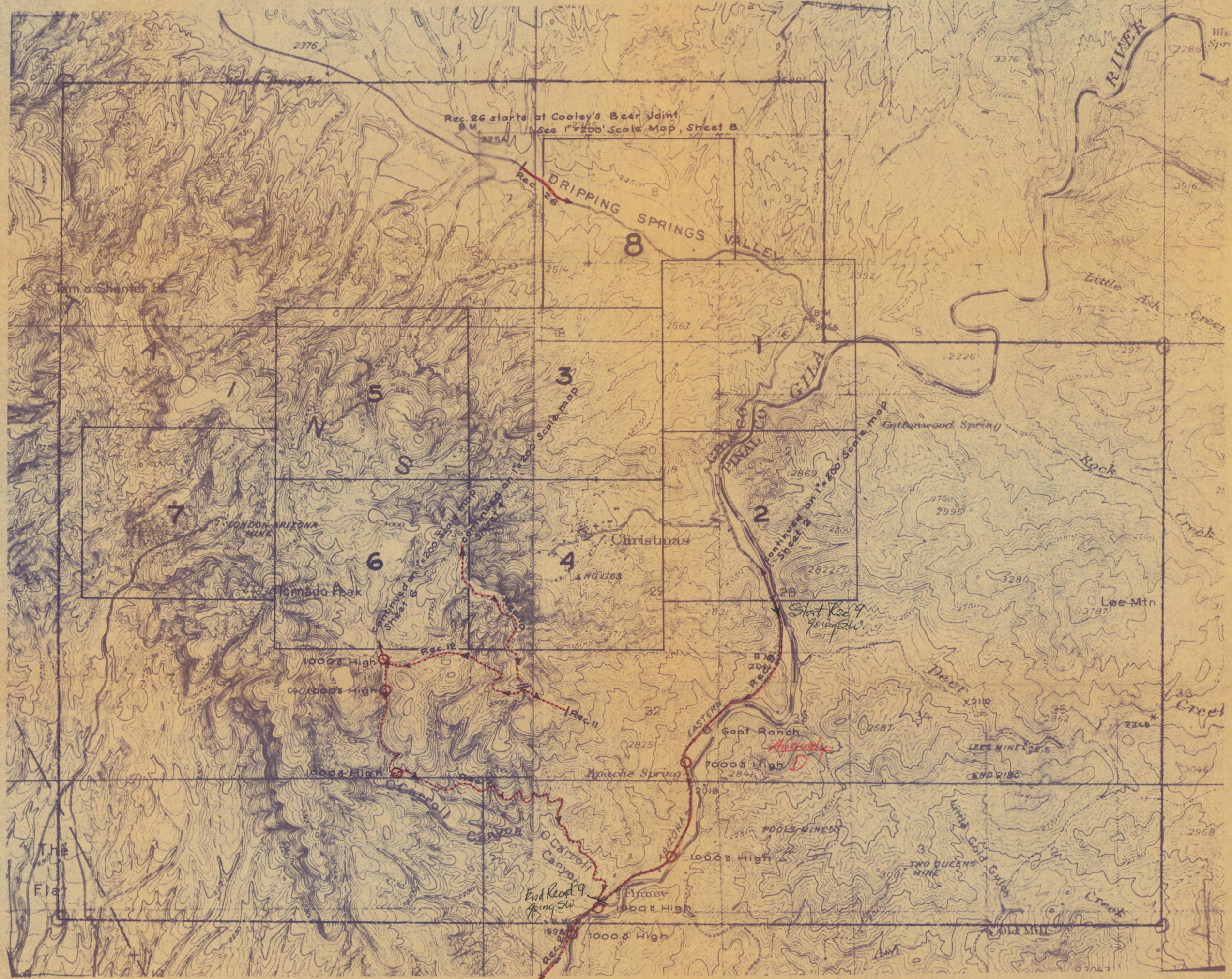
R.E.P.

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

# 2

| STA | SCALE | READ | |
|---|---|---|---|
| 2700 | +1 | 80 | |
| | | 74 | |
| 2800 | +1 | 50 | |
| | | 44 | |
| 2900 | +1 | 90 | |
| | | 84 | |
| 3000 | +1 | 100 | |
| | | 94 | |
| 3100 | +1 | 93 | |
| | | 88 | |
| 3200 | +1 | 95 | |
| | | 90 | |
| 3300 | +1 | 140 | |
| | | 135 | |
| 3400 | +1 | 200 | |
| | | 195 | |
| 3500 | +2 | 110 | |
| | | 325 | |
| 3600 | +2 | 168 | |
| | | 604 | |
| 3700 | +2 | 80 | |
| | | 235 | |
| 3800 | +1 | 182 | |
| | | 177 | |
| 3900 | +1 | 145 | |
| | | 140 | |
| 4000 | +1 | 210 | 205 |
| D1000 | -1 | 35 | |
| A1000 | +1 | 120 | 115 |

LEFAX, PHILADELPHIA, 7 PA. MADE IN U.S.A.




—·— Indicates Aerial Magnetic Coverage area

—— Sheets at 1"=200' Scale

Rec. 4 Mobile Magnetic Total Intensity Traverse and Record No. & Direction

Area of Magnetic Anomalism of possible interest

CHRISTMAS MINE & VICINITY PROJECT
INDEX MAP

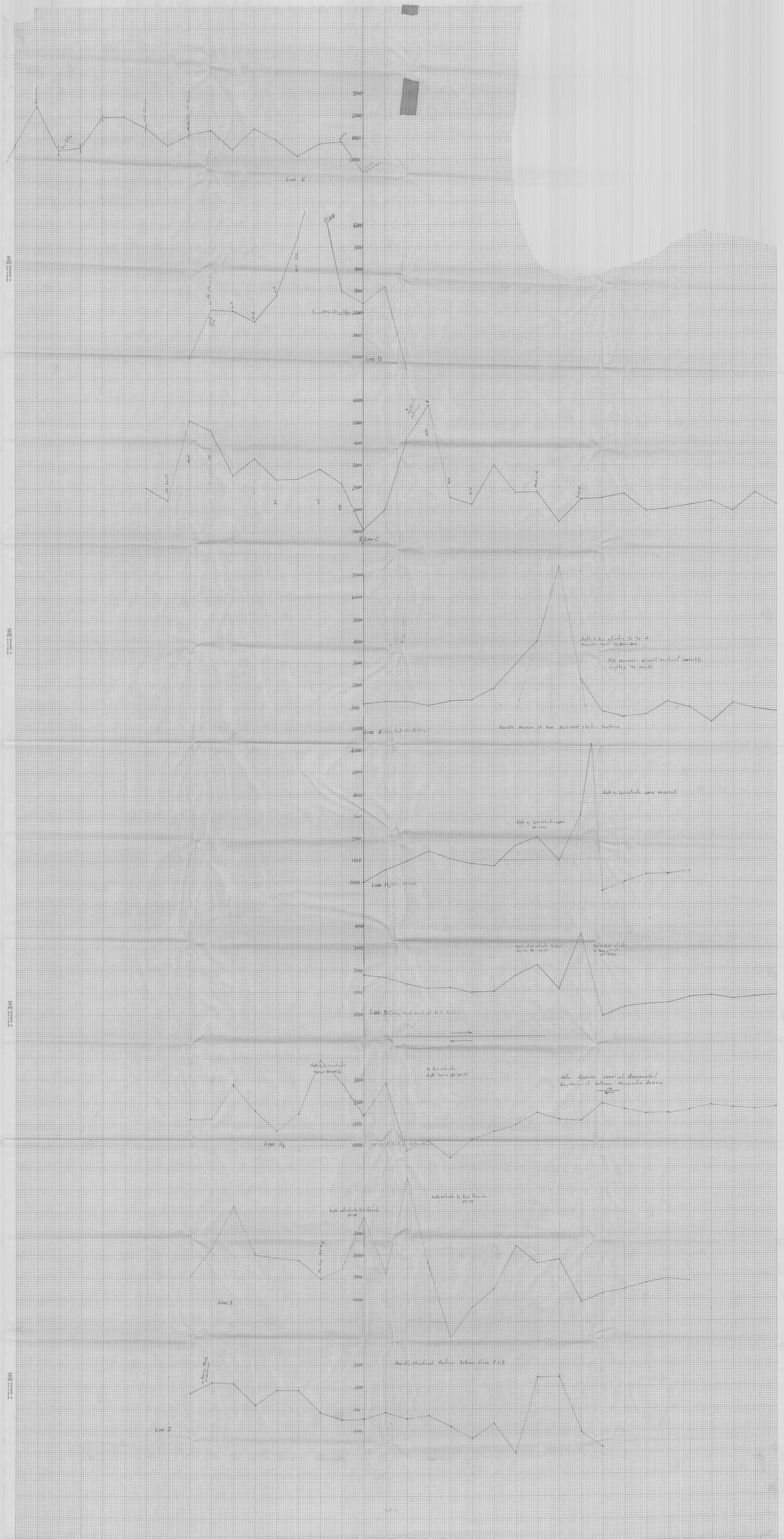
Showing magnetic coverage outside of areas covered on – 1"=200' Scale Maps and 1"=600' Scale Map for

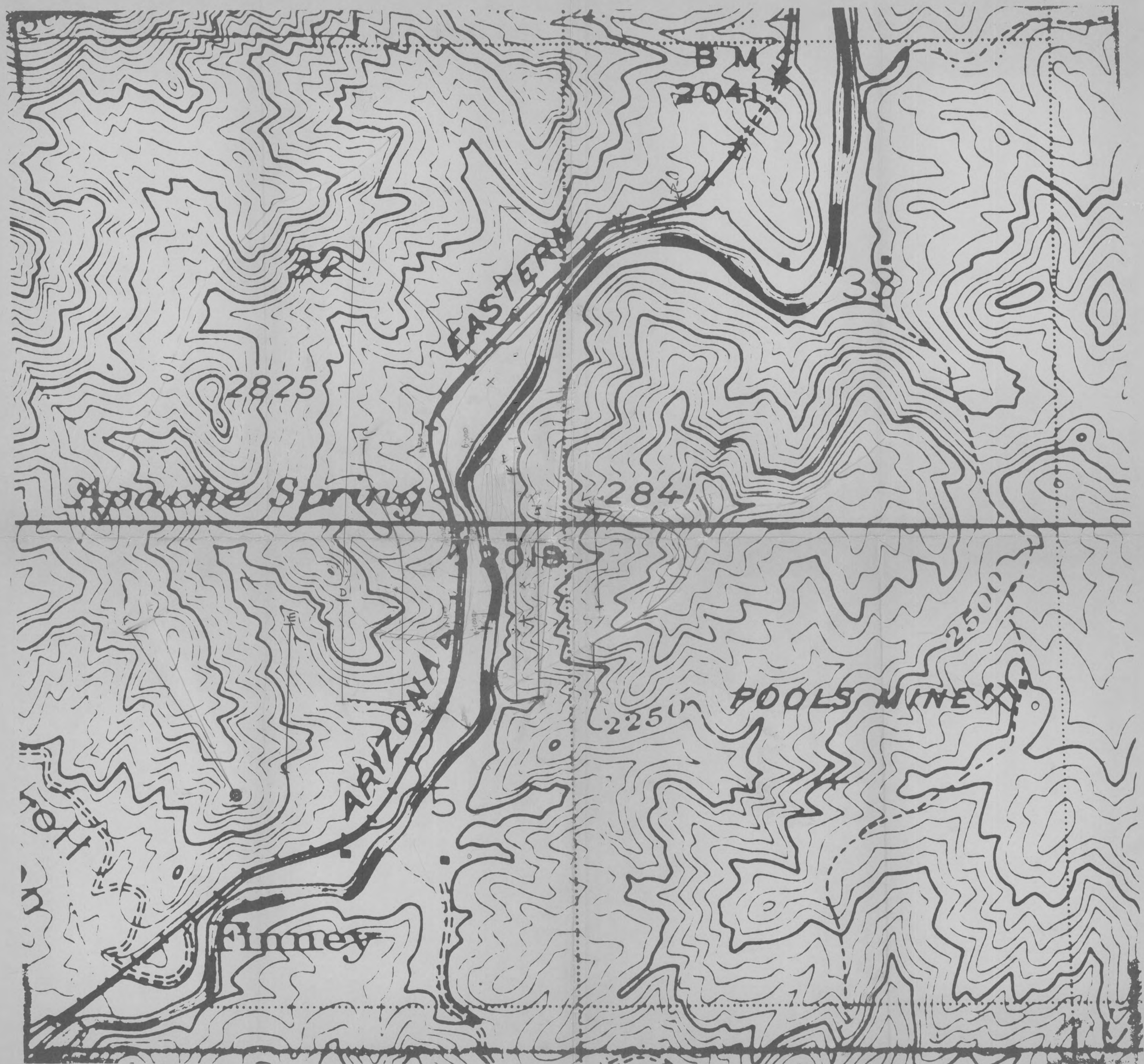
INSPIRATION CONSOLIDATED COPPER CO.
by
HEINRICHS GEOEXPLORATION CO.

July 1962

Scale: 2"=1 mile

Geoex


LINE E
LINE D
LINE C
LINE A
LINE H
LINE B
LINE I
LINE F



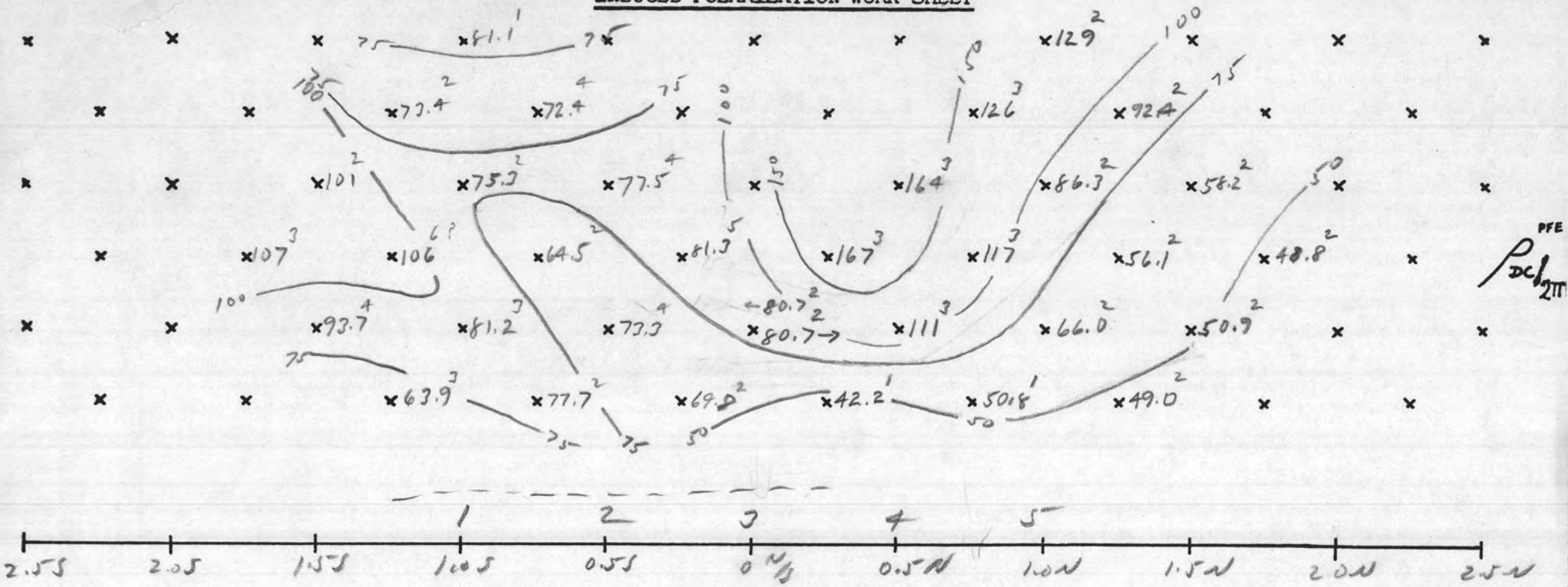
BM
2041
EASTERN
32
38
2825
Apache Spring
2841
ARIZONA
2500
2250
POOLS MINE
Finney

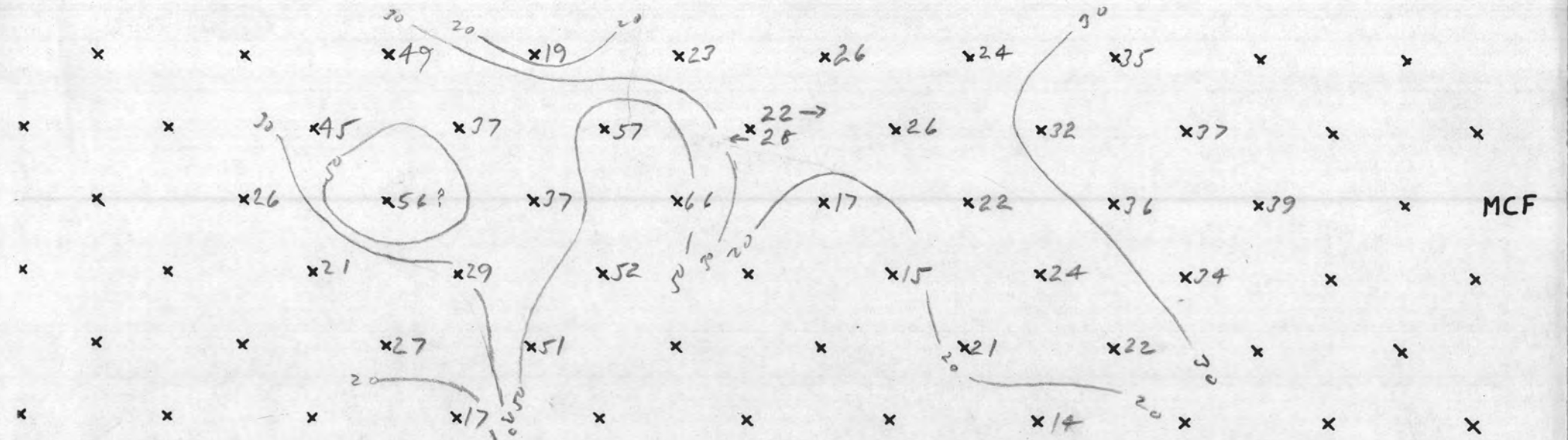
# INDUCED POLARIZATION WORK SHEET

Area SL, 574 Scale 1" = 500' Date

LOOKING WESTERLY

# INDUCED POLARIZATION WORK SHEET




Area S.L. 574 Line 1 - Spur 1 - N½ Scale 1" = 500 Date 12/27/63

HEINRICHS GEOEXPLORATION COMPANY

INDUCED POLARIZATION SURVEY COMPUTATION SHEET

Page 1

Project S.L. 574 Line 1 - Spr. 1 - N Field date 12/27/67 Data page _____ Comp. date 12/27/67 Comp by C.S.L.

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (A) Send | 2-3 | 1-2 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 |
| (B) Receive | .5-1.0N | → | 1.0-1.5N | → | → | 1.5-2.0N | → | → | → | 2.0-2.5N | → | |
| (C) n separation | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | 2 | 3 | 4 |
| (D) I | 1400 | | | | | | | | | | | |
| (E) Vdc (avg) | 36.8 | 17.6 | 44.3 | 24.2 | 14.6 | 42.7 | 14.4 | 10.23 | 7.14 | 11.1 | 4.89 | 3.77 |
| (F) DCcal USED | 1.070 | | | | | | | | | | | |
| (G) Kn x $10^{-3}$ | 1.5 | 6 | 1.5 | 6 | 15 | 1.5 | 6 | 15 | 30 | 6 | 15 | 30 |
| (H) ρ dc=ExFxGx$10^3$/D | 42.2 | 80.7 | 50.8 | 111 | 167 | 49.0 | 66.0 | 117 | 164 | 50.9 | 56.1 | 86.3 |
| (I) Vac Σ | 36.4 | 17.3 | 43.8 | 23.5 | 14.2 | 42.0 | 14.1 | 9.97 | 6.96 | 10.9 | 4.80 | 3.69 |
| (J) AC noise x 2 | | | | | | | | | | | | |
| (K) Vac(corr) = $\sqrt{I^2 - J^2}$ | | | | | | | | | | | | |
| (L) AC-DC cal. USED | 1.200 | | | | | | | | | | | |
| (M) ρ dc/ρac=ExL/K | 1.011 | 1.018 | 1.012 | 1.029 | 1.029 | 1.017 | 1.021 | 1.026 | 1.025 | 1.019 | 1.020 | 1.021 |
| (N) PFE=(M-1)($10^2$) | 1 | 2 | 1 | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 2 | 2 |
| (O) MCF=(M-1)($10^5$)/H | 26 | 22 | 24 | 26 | 17 | 35 | 32 | 22 | 15 | 37 | 36 | 24 |

Project _____ Line _____ Field date _____ Data page _____ Comp. date _____ Comp by _____

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (A) Send | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | | CAL | | | | | |
| (B) Receive | → | 2.5-3.0N | → | → | → | | | | | | | |
| (C) n separation | 5 | 3 | 4 | 5 | 6 | | | | | | | |
| (D) I | → | → | → | → | → | | 1000 | 1000 | 1200 | 1200 | 1000 | 800 |
| (E) Vdc (avg) | 3.14 | 4.22 | 2.51 | 2.24 | 2.00 | | 91.6 | 88 | 109.2 | 104 | 90 | 28.6 |
| (F) DCcal | → | 1.080 | → | → | → | | 1.091 | 1.137 | 1.097 | 1.153 | 1.111 | 1.049 |
| (G) Kn x $10^{-3}$ | 52.5 | 15 | 30 | 52.5 | 84 | | ~ | 1.070 | | | 1.080 | |
| (H) ρ dc=ExFxGx$10^3$/D | 126 | 48.8 | 58.2 | 92.4 | 129 | | | | | | | |
| (I) Vac Σ | 3.06 | 3.96 | 2.35 | 2.14 | 1.84 | | 91.2 | 84 | 104.6 | 104 | 84 | 27.3 |
| (J) AC noise x 2 | | | | | | | | | | | | |
| (K) Vac (corr) = $\sqrt{I^2 - J^2}$ | | | | | | | | | | | | |
| (L) AC-DC cal. | → | .955 | → | → | → | | .997 | 1.000 | .995 | 1.000 | ~~.933~~ 2 | .955 |
| (M) ρdc/ρac =ExL/K | 1.026 | 1.019 | 1.020 | 1.020 | 1.024 | | | | | | USE 0.95 | 5 |
| (N) PFE=(M-1)($10^2$) | 3 | 2 | 2 | 2 | 2 | | | | | | | |
| (O) MCF=(M-1)($10^5$)/H | 21 | 39 | 34 | 22 | 14 | | | | | | | |

1.012 1.014 1.012

124
150
274

INDUCED POLARIZATION - RECEIVER NOTES PAGE 1

Project: S.L. 574 Line: 1-S pos, 1-N½ Int.Cal Date: 12/27/67

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Send | 2-3 | 1-2 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 |
| Rec. | .5-1.0N → | | 1.0-1.5N → | | | 1.5-2.0N → | | | | 2.0-2.5N → | | |
| ~~Time~~ Gain | 100 | 30 | 100 | 30 | 30 | 100 | 30 | 10 | 10 | 30 | 10 | 10 |
| DC-1 | 14.8<br>19.0 | 9.2 9.6<br>8.7 9.8 | 22.4<br>21.8 | 13.8 14.0<br>10.6 | 13.6 8.4<br>8.9 8.3 | 20.0 20.2<br>22.5 20.3 | 7.2 7.6<br>7.0 7.2 | 5.02<br>5.08 | 3.64<br>3.54 | 5.1<br>5.2 | 2.30<br>2.60 | 1.84<br>1.92 |
| DC-2 | 17.8<br>18.0 | 8.3 7.9<br>8.8 7.9 | 22.0<br>22.2 | 10.1 10.2<br>17.8 | 10.8 8.1<br>8.6 8.1 | 21.0 22.5<br>20.0 22.2 | 7.1 7.0<br>7.2 7.2 | 5.22<br>5.10 | 3.57<br>3.60 | 6.0<br>6.0 | 1.80<br>2.28 | 2.0<br>1.78 |
| Σ | 36.2<br>37.0 | 17.2 17.5<br>17.5 17.7 | 44.4<br>44.0 | 20.3<br>29.4 | 14.3 14.5<br>16.5 16.4 | 42.2 42.0<br>42.5 42.5 | 14.3 14.6<br>14.2 14.4 | 10.24<br>10.18 | 7.16<br>7.15 | 11.1<br>11.2 | 4.90<br>4.88 | 3.78<br>3.78 |
| DC-3 | 16.0<br>16.0 | 8.8 8.0<br>8.2 9.8 | 20.0<br>22.4 | 13.8<br>10.3 | 6.1 5.8<br>8.7 4.9 | 27.1<br>20.3 | 7.2 7.6<br>7.0 7.2 | 4.22<br>5.11 | 3.48<br>3.42 | 6.0<br>6.0 | 2.28<br>2.57 | 1.79<br>1.99 |
| Dc-4 | 16.0<br>16.8 | 8.3 9.7<br>7.6 7.8 | 20.4<br>22.0 | 10.3<br>13.9 | 8.6 9.0<br>5.8 9.3 | 15.9<br>21.2 | 7.0 6.9<br>7.4 7.2 | 6.01<br>5.14 | 3.64<br>3.71 | 5.1<br>5.1 | 2.52<br>2.72 | 1.99<br>1.80 |
| Σ | 36.8<br>36.8 | 17.5 17.7<br>17.8 17.6 | 43.8<br>44.4 | 24.1<br>24.2 | 14.7 14.9<br>14.5 13.6 | 41.0<br>42.9 | 14.2 14.5<br>14.4 14.4 | 10.23<br>10.25 | 7.12<br>7.13 | 11.1<br>11.1 | 4.80<br>4.89 | 3.78<br>3.79 |
| DC-AV | 36.8 | 17.6 | 44.3 | 24.2 | 14.6 | 42.7 | 14.4 | 10.23 | 7.14 | 11.1 | 4.89 | 3.77 |
| AC-1 | 16.2 | 8.5 | 21.8 | 11.8 | 7.1 | 21.0 | 7.0 | 4.99 | 3.48 | 5.4 | 2.40 | 1.84 |
| AC-2 | 16.2 | 8.7 | 22.0 | 11.7 | 7.1 | 21.0 | 7.1 | 4.98 | 3.48 | 5.5 | 2.40 | 1.85 |
| Σ | 36.4 | 17.3 | 43.8 | 23.5 | 14.2 | 42.0 | 14.1 | 9.97 | 6.96 | 10.9 | 4.80 | 3.69 |
| S. P. | -2.6 → | | -13.4 → | | | +26.4 → | | | | -0.8 → | | |
| AC-N | .03 → | | .12 → | | | .03 → | | | | .07 → | | |
| I.C. | 49.6 → | | 49.3 → | | | 49.4 → | | | | 49.1 → | | |

INDUCED POLARIZATION - RECEIVER NOTES PAGE 2

Project: S.L. 574 Line: 1-Spr, 1-N½ Int.Cal _____ Date: 12/27/

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Send | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | | CAL | → | → | → | | |
| Rec. | → | 2.5-3.0N | → | → | → | | 4-5 | → | → | → | | |
| ~~Time~~ Range | 3 | 10 | 3 | 3 | 3 | | 100 | 300 | 100 | 300 | 300 | 30 |
| DC-1 | 1.45<br>1.78 | | | | | | 45.8 | 44 | 54.6 | 52 | | |
| DC-2 | 1.73<br>1.34 | | | | | | 45.8 | 44 | 54.6 | 52 | | |
| Σ | 3.18<br>3.12 | Graff gear | | | | | 91.6 | 88 | 109.2 | 104 | | |
| DC-3 | 1.36<br>1.33 | | | | | | 45.8 | 48 | 54.6 | 52 | | |
| Dc-4 | 1.78<br>1.79 | | | | | | 45.8 | 44 | 54.6 | 52 | | |
| Σ | 3.14<br>3.12 | | | | | | 91.6 | 88 | 109.2 | 104 | | |
| DC-AV | 3.14 | 4.22 | 2.51 | 2.28 | 2.00 | | 91.6 | 88 | 109.2 | 104 | 90 | 28.6 |
| AC-1 | 1.52 | | | | | | 45.6 | 44 | 54.3 | 52 | | |
| AC-2 | 1.54 | | | | | | 45.6 | 44 | 54.3 | 52 | | |
| Σ | 3.06 | 3.96 | 2.35 | 2.14 | 1.88 | | 91.2 | 88 | 108.6 | 104 | 84 | 27.2 |
| S. P. | → | -15.7 | → | → | → | | | | | | | |
| AC-N | → | .02 | → | → | → | | | | | | | |
| I.C. | → | | | | | | | | | | | |

INDUCED POLARIZATION - RECEIVER NOTES PAGE _____

Project: S-E 574 Line: 1 N½ Int.Cal _____ Date: 12/27/67

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Send | 4-5 | 3-4 | 2-3 | 1-2 | | | 1.19 | CAL | → | → | → | |
| Rec. | 2.5-3 | ON | → | → | | | | 100 | 300 | 100 | 30 | |
| ~~Time~~ Range | 10 | 3 | 3 | 3 | | | | | | | | |
| DC-1 | 2.57<br>19.4 | 1.05<br>1.02 | 1.17<br>1.13 | 1.04<br>1.02 | | | | 45.9 | 45 | | 14.3 | |
| DC-2 | 2.35<br>22.8 | 1.43<br>1.52 | 1.12<br>1.15 | .96<br>.98 | | | | 45.9 | 45 | | 14.3 | |
| Σ | 4.9<br>[illegible] | 2.48<br>2.54 | 2.25<br>2.28 | 2.00<br>2.00 | | | | 91.8 | 90 | | 28.6 | |
| DC-3 | 22.8<br>19.7 | 1.57<br>1.63 | 1.16<br>1.13 | .97<br>1.09 | | | | 45.9 | 45 | | 14.3 | |
| Dc-4 | 19.4<br>22.7 | .96<br>.85 | 1.12<br>1.16 | 1.06<br>.88 | | | | 45.9 | 45 | | 14.3 | |
| Σ | 4.22<br>4.24 | 2.53<br>2.48 | 2.28<br>2.29 | 2.03<br>1.97 | | | | 91.8 | 90 | | 28.6 | |
| DC-AV | 4.22 | 2.51 | 2.28 | 2.00 | | | | 91.8 | 90 | | 28.6 | |
| AC-1 | 1.98 | 1.17 | 1.07 | .94 | | | | 44.6 | 42 | | 13.7 | |
| AC-2 | 1.98 | 1.18 | 1.07 | .94 | | | | 44.8 | 42 | | 13.6 | |
| Σ | 3.96 | 2.35 | 2.14 | 1.88 | | | | 89.4 | 84 | | 27.3 | |
| S. P. -15.7 | → | | | | | | | | | | | |
| AC-N | → | .02 | | | | | | | | | | |
| I. C. | | | | | | | | | | | | |

# INDUCED POLARIZATION SENDER NOTES

Project: S.L. 574 Line: 1 - Spur 1 N 1/2 Date: 12/27/13

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Send | 2-3 | 1-2 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | 4-5 | 3-4 | 2-3 |
| Receive | .5-1.0N → | | 1.0-1.5N → | | | 1.5-2.0N → | | | | 2.0-2.5N | | |
| Time | 1L | | | | | | | | | | | |
| Range | X2 | | | | | | | | | | | |
| Current | 1400 | 1400 | 1400 | 1400 | 1400 | 1400 | 1400 | 1400 | 1400 | 1400 | 1400 | 1400 |
| Send | 1-2 | 4-5 | 3-4 | 2-3 | 1-2 | | (4L | | | | | |
| Receive → | | 2.5-3.0N → | | | | | 4-5 | | | | | |
| Time | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |
| Current | 1400 | 1400 | 1400 | 1400 | | | | | | | | |

HEINRICHS GEOEXPLORATION COMPANY
INDUCED POLARIZATION SURVEY COMPUTATION SHEET

Page_____

Project S.L 5-74 Line I - Spr. 1-5 Field date 12/28/63 Data page_____ Comp. date 12/30/63. Comp by C.S.L

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (A) Send | 3-4 | 4-5 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 |
| (B) Receive | 1.5-1.05 | → | 1.0-1.5 | → | → | 1.5-2.05 | → | → | → | 2.0-2.5 | → | |
| (C) n separation | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 4 | 2 | 3 | 4 |
| (D) I | 960 | 960 | 1550 | 1400 | 1430 | 1600 | 1550 | 1430 | 1430 | 1600 | 1550 | 1430 |
| (E) Vdc (avg) | 44.7 | 12.9 | 80.2 | 17.1 | 7.76 | 68.1 | 21.0 | 6.15 | 3.70 | 25.0 | 10.9 | 3.58 |
| (F) DCcal USED | 1.000 | | | | | | | | | | | |
| (G) Kn x $10^{-3}$ | 1.5 | 6 | 1.5 | 6 | 15 | 1.5 | 6 | 15 | 30 | 6 | 15 | 30 |
| (H) $\rho$ dc=ExFxGx$10^3$/D | 69.8 | 80.7 | 77.7 | 73.3 | 81.3 | 63.9 | 81.2 | 64.5 | 77.5 | 93.7 | 106 | 75.3 |
| (I) Vac $\Sigma$ | 44.0 | 12.6 | 79.0 | 16.4 | 7.36 | 66.0 | 20.4 | 6.00 | 3.56 | 24.0 | 10.3 | 3.50 |
| (J) AC noise x 2 | | | | | | | | | | | | |
| (K) Vac(corr) = $\sqrt{I^2 - J^2}$ | | | | | | | | | | | | |
| (L) AC-DC cal. USED | 1.000 | | | | | | | | | | | |
| (M) $\rho$ dc/$\rho$ac=ExL/K | 1.016 | 1.023 | 1.015 | 1.042 | 1.054 | 1.031 | 1.030 | 1.024 | 1.040 | 1.042 | 1.059 | 1.022 |
| (N) PFE=(M-1)($10^2$) | 2 | 2 | 2 | 4 | 5 | 3 | 3 | 2 | 4 | 4 | 6 | 2 |
| (O) MCF=(M-1)($10^5$)/H | 23 | 28 | 19 | 57 | 66 | 49 | 37 | 37 | 52 | 45 | 56 | 29 |

Project_____ Line_____ Field date_____ Data page_____ Comp. date_____ Comp by_____

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (A) Send | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 | | C.S.L | | | | | |
| (B) Receive | → | 2.5-3.0 | → | → | → | | 1-2 | | | | | |
| (C) n separation | 5 | 3 | 4 | 5 | 6 | | 1000 | 1000 | | | | |
| (D) I | 1430 | 1600 | 1550 | 1430 | 1430 | | 856 | 840 | | | | |
| (E) Vdc (avg) | 1.97 | 11.4 | 5.23 | 2.00 | 1.38 | | 1 | | | | | |
| (F) DCcal | → | | | | → | | 4>6 | 1.190 | 1.183 | | | |
| (G) Kn x $10^{-3}$ | 52.5 | 15 | 30 | 52.5 | 84 | | | | | | | |
| (H) $\rho$ dc=ExFxGx$10^3$/D | 72.4 | 107 | 101 | 73.4 | 81.1 | | | | | | | |
| (I) Vac $\Sigma$ | 1.90 | 11.1 | 5.12 | 1.96 | 1.36 | | 856 | 840 | | | | |
| (J) AC noise x 2 | | | | | | | | | | | | |
| (K) Vac (corr) = $\sqrt{I^2 - J^2}$ | | | | | | | | | | | | |
| (L) AC-DC cal. | → | | | | → | | 1.000 | 1.000 | | | | |
| (M) $\rho$dc/$\rho$ac =ExL/K | 1.037 | 1.028 | 1.021 | 1.020 | 1.014 | | | | | | | |
| (N) PFE=(M-1)($10^2$) | 4 | 3 | 2 | 2 | 1 | | | | | | | |
| (O) MCF=(M-1)($10^5$)/H | 51 | 26 | 21 | 27 | 17 | | | | | | | |

INDUCED POLARIZATION - RECEIVER NOTES PAGE 3

Project: S.L. 574 Line: 1 - Sp. 2 - 5½ Int.Cal _____ Date: 12/28/63

| Send | 3-4 | 4-5 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Rec. | .5-1.05 | → | 1.0-1.55 | → | → | 1.5-2.05 | → | → | → | 2.05-2.55 | → | → |
| ~~Time~~ Range | 100 | 30 | 100 | 30 | 10 | 100 | 30 | 10 | 3 | 30 | 30 | 10 |
| DC-1 | 22.0<br>22.8 | 6.6<br>6.3 | 40.2<br>41.1 | 8.8<br>8.8 | 4.09<br>3.65 | 32.8<br>32.3 | 9.6<br>11.6 | 3.07<br>3.12 | 1.83 1.75<br>1.72 1.66 | 13.3 11.3<br>11.7 13.7 | 5.9 5.9<br>5.1 5.0 | 1.99 1.99<br>1.46 1.48 |
| DC-2 | 22.8<br>21.9 | 6.3<br>6.6 | 40.0<br>40.2 | 8.3<br>8.3 | 3.65<br>4.16 | 35.7<br>35.9 | 11.4<br>9.6 | 3.14<br>3.05 | 1.83 1.96<br>2.02 1.82 | 11.6 13.7<br>13.5 11.2 | 5.1 5.0<br>5.7 6.0 | 1.61 1.62<br>2.02 1.90 |
| Σ | 44.8<br>44.7 | 12.9<br>12.9 | 80.2<br>80.3 | 17.1<br>17.1 | 7.79<br>7.81 | 68.5<br>68.2 | 21.0<br>21.2 | 6.21<br>6.17 | 3.66 3.71<br>3.74 3.70 | 24.9 25.0<br>25.2 24.9 | 11.0 10.9<br>10.8 11.0 | 3.60 3.61<br>3.48 3.58 |
| DC-3 | 22.9<br>21.8 | 6.2<br>6.6 | 40.3<br>40.0 | 8.8<br>8.8 | 4.16<br>3.60 | 35.9<br>32.0 | 9.6<br>11.4 | 2.88<br>2.86 | 1.70<br>1.72 | 13.5 11.3<br>11.6 13.8 | 5.7<br>5.1 | 1.52 1.97<br>2.13 1.55 |
| Dc-4 | 21.8<br>22.9 | 6.7<br>6.3 | 40.0<br>40.2 | 8.8<br>8.8 | 3.60<br>4.16 | 32.0<br>36.0 | 11.4<br>9.6 | 3.22<br>3.26 | 1.99<br>2.00 | 11.4 13.7<br>13.6 11.2 | 5.1<br>5.9 | 2.03 1.60<br>1.43 2.04 |
| Σ | 44.7<br>44.7 | 12.9<br>12.9 | 80.2<br>80.2 | 17.1<br>17.1 | 7.76<br>7.76 | 67.9<br>67.9 | 21.0<br>21.0 | 6.10<br>6.12 | 3.69<br>3.72 | 24.9 25.0<br>25.2 25.0 | 10.8<br>11.0 | 3.55 3.57<br>3.56 3.59 |
| DC-AV | 44.7 | 12.9 | 80.2 | 17.1 | 7.76 | 68.1 | 21.0 | 6.15 | 3.70 | 25.0 | 10.9 10.8 | 3.58 |
| AC-1 | 22.0 | 6.3 | 39.5 | 8.2 | 3.66 | 33.1 | 10.2 | 3.00 | 1.77 | 11.9 | 5.2 | 1.75 |
| AC-2 | 22.0 | 6.3 | 39.5 | 8.2 | 3.70 | 32.9 | 10.2 | 3.00 | 1.79 | 12.1 | 5.1 | 1.75 |
| Σ | 44.0 | 12.6 | 79.0 | 16.4 | 7.36 | 66.0 | 20.4 | 6.00 | 3.56 | 24.0 | 10.3 10.5 | 3.50 |
| S. P. | -2.3 | → | -3.0 | → | → | +11.1 | → | → | → | +15.3 | → | → |
| AC-N | .03 | → | .08 | → | → | .07 | → | → | → | .09 | → | → |
| I.C. | 49.0 | → | 49.1 | → | → | 48.6 | → | → | → | 48.5 | → | → |

INDUCED POLARIZATION - RECEIVER NOTES PAGE 4

Project: S.L. 574 Line: 1 - Spr. 1 - S 1/2 Int.Cal _____ Date: 12/28/63

| Send | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 | | CAL | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Rec. | → | 2.5-3.05 | → | → | → | | 1-2 | → | | | | |
| ~~Time~~ Range | 3 | 30 | 10 | 3 | 3 | | 100 | 300 | | | | |
| DC-1 | 1.01<br>1.06 | 6.0<br>5.3 | 2.93 2.27<br>2.86 2.03 | 1.12 .98<br>1.00 1.24 | .61<br>.82 | | 42.8 | 42 | | | | |
| DC-2 | .93<br>.91 | 5.3<br>6.1 | 2.75 3.00<br>2.36 2.23 | .85 1.02<br>.82 .72 | .77<br>.56 | | 42.8 | 42 | | | | |
| Σ | 1.94<br>1.97 | 11.2<br>11.4 | 5.18 5.27<br>5.22 5.26 | 1.97 2.00<br>2.02 2.00 | 1.38<br>1.38 | | 85.6 | 84 | | | | |
| DC-3 | 1.19<br>.87 | 6.2<br>5.2 | 2.30 3.00<br>2.98 3.00 | 1.00 1.08<br>1.14 | .83<br>.98 | | 42.8 | 42 | | | | |
| Dc-4 | .78<br>1.12 | 5.2<br>6.2 | 2.50 2.22<br>2.26 2.25 | .99 .97<br>.82 | .56<br>.98 | | 42.8 | 42 | | | | |
| Σ | 1.97<br>1.99 | 11.4<br>11.4 | ~~5.16~~ 5.22<br>5.24 5.25 | 1.99 2.05<br>1.96 | 1.39<br>1.37 | | 85.6 | 84 | | | | |
| DC-AV | 1.97 | 11.4 | 5.23 | 2.00 | 1.38 | | 85.6 | 84 | | | | |
| AC-1 | .94 | 5.5 | 2.57 | .98 | .69 | | 42.8 | 42 | | | | |
| AC-2 | .96 | 5.6 | 2.55 | .98 | .67 | | 42.8 | 42 | | | | |
| Σ | 1.90 | 11.1 | 5.12 | 1.96 | 1.36 | | 85.6 | 84 | | | | |
| S. P. | → | -1.1 | → | → | → | | | | | | | |
| AC-N | → | .04 | → | → | → | | | | | | | |
| I.C. | → | 47.5 | → | → | → | | | | | | | |

# INDUCED POLARIZATION SENDER NOTES

Project: _____ Line: _____ Date: _____

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Send | Cal | | | | | | | | | | | |
| Receive | | | | | | | | | | | | |
| Time | | | | | | | | | | | | |
| Range Set | 1000 | | | | | | | 3rd | | | | |
| Current Act | 850 | 1st | | | 2nd | | | | | | | |
| Send | | | | 2-3 | 3-4 | 4-5 | 1-2 | 2-3 | 3-4 | 4-5 | | |
| Receive | | | | | | | | | | | | |
| Time | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |
| Current | | 1400 | 1400 | 1550 | 1400 | 1430 | 1600 | 1550 | 1430 | 1430 | | |

INDUCED POLARIZATION SENDER NOTES

Project: Line: Date:

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Send | 1-2 | 2-3 | 3-4 | 4-5 | | | | | | | | |
| Receive | | | | | | | | | | | | |
| Time | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |
| Current | 1600 | 1550 | 1430 | 1430 | 1600 | 1550 | 1430 | 1430 | | | | |
| Send | | | | | | | | | | | | |
| Receive | | | | | | | | | | | | |
| Time | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |
| Current | | | | | | | | | | | | |

# [illegible]OLARIZATION - RECEIVER NOTES PAGE _____

Project: _____ Line: _____ Int.Cal _____ Date: _____

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Send | | | | | | | +1 | +2 | | +1 | +2 | |
| Rec. | | | | | | 1000 | 187 | | 600 | 137 | | |
| Time | | +1 | +2 | +3 | -1 | 1100 | 165 | | 700 | 130 | | |
| DC-1 | A1000 | 125 | | | | 1200 | 161 | | 800 | 117 | | |
| DC-2 | N. END I.P. | 71 | | | | 1300 | 135 | | 900 | 125 | | |
| Σ | LINE 1 N.W. | 63 | | | | 1400 | 145 | | 1000 | 40 | IN WASH | |
| DC-3 | 100 | 121 | | | | 1500 | 115 | | 1100 | 80 | | |
| Dc-4 | 200 | 100 | | | | 1600 | 155 | | 1200 | 148 | | |
| Σ | 300 | | 88 | | | 1700 | 161 | | 1300 | 242 | | |
| DC-AV | 400 | | 35 | | | 1800 | 180 | | 1400 | 50 | IN WASH | |
| AC-1 | 500 | 75 | | | | 1900 | | 146 | 1500 | 212 | | |
| AC-2 | 600 | 30 | | | LINE 2 | 100 | 212 | | 1600 | 118 | | |
| Σ | 700 | 148 | | | | 200 | | 92 | 1700 | 170 | | |
| S. P. | 800 | 150 | | | | 300 | 208 | | 1800 | 132 | | |
| AC-N | 900 | 205 | | | | 400 | 120 | | 1900 | 112 | | |
| | | | | | | 500 | 107 | | 2000 | 78 | | |

INDUCED POLARIZATION - RECEIVER NOTES PAGE _____

Project: _____ Line: _____ Int.Cal _____ Date: _____

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Send | #2 | +1 | +2 | ~~3500~~ | +1 | +2 | -1 | | | | | |
| Rec. | 2100 | 72 | | 3500 | | 110 | | | | | | |
| Time | 2200 | 127 | | 3600 | | 168 | | | | | | |
| DC-1 | 2300 | 125 | | 3700 | | 80 | | | | | | |
| DC-2 | 2400 | 160 | | 3800 | 182 | | | | | | | |
| Σ | 2500 | 110 | | 3900 | 145 | | | | | | | |
| DC-3 | 2600 | 98 | | 4000 | 210 | | | | | | | |
| Dc-4 | 2700 | 80 | | D1000 | - | | 35 | | | | | |
| Σ | 2800 | 50 | | A1000 | 120 | | | | | | | |
| DC-AV | 2900 | 90 | | | | | | | | | | |
| AC-1 | 3000 | 100 | | | | | | | | | | |
| AC-2 | 3100 | 93 | | | | | | | | | | |
| Σ | 3200 | 95 | | | | | | | | | | |
| S. P. | 3300 | 140 | | | | | | | | | | |
| AC-N | 3400 | 200 | | | | | | | | | | |
| | | | | | | | | | | | | |