Bad - Rip

1

Vert. Scale 1" = 10'

HOLE 262-3
FROM 0 - 80'
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION Vert. DEPTH 0-80
STARTED 10/3/48 COMPLETED

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOVERED | CORE ASSAYS SECTION | CORE ASSAYS CU. | SLUDGE ASSAYS SECTION | SLUDGE ASSAYS CU. |
|---|---|---|---|---|---|---|---|---|
| | | 0 | | No Core Recovered until 50' | | | | |
| | | 10 | | | | | | |
| | | 20 | | | | | | |
| | | 30 | | | | | | |
| | | 40 | | | | | | |
| | | 50 First core rec'd @ 50' | | 95% | | | | |
| | | Conglomerate consisting of essentially qtz. frags in a sand-calcite matrix. | | | | | | |
| | | 60 | | | | | | |
| | | First significant granitic intrusion | | 100% | | | | |
| | | Intrusives occurring intermittently thru conglom. | | | | | | |
| | | 70 | | | | | | |
| | | 80 | | | | | | |

Bad-Rip

2

HOLE 262-3
FROM 80'-160'
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION Vert DEPTH 80-160
STARTED 10/3/68 COMPLETED

Vert Scale 1" = 10'

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOV'D | CORE ASSAYS SECTION | CORE ASSAYS CU. | SLUDGE ASSAYS SECTION | SLUDGE ASSAYS CU. |
|---|---|---|---|---|---|---|---|---|
| | | 80 | | | | | | |
| | | 90 | | | | | | |
| | | 100 | | 100% | | | | |
| | | Conglomerate fading out. | | | | | | |
| | | 110 Altered granitic material present. Highly Fragmented. Appears due be due to alteration or weathering rather than fracturing. | | | | | | |
| | | 120 | | 95% | | | | |
| | | | | 100% | | | | |
| | | 130 | | 80% | | | | |
| | | | | 85% | | | | |
| | | 140 Still signs of slight weathering or alteration but granitic material much more stable. Iron oxide & manganese staining present | | 100% | | | | |
| | | | | 80% | | | | |
| | | | | 100% | | | | |
| | | 150 | | | | | | |
| | | | | 100% | | | | |
| | | 160 | | | | | | |

3

HOLE 262-3
FROM 160 - 240
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION Vert DEPTH 160-240
STARTED 10/3/68 COMPLETED

Vert Scale 1" = 10'

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOVERED | CORE ASSAYS SECTION | CORE ASSAYS CU. | SLUDGE ASSAYS SECTION | SLUDGE ASSAYS CU. |
|---|---|---|---|---|---|---|---|---|
| | | 160 | | | | | | |
| | | Granitic material with manganese and iron oxide staining | | 100% | | | | |
| | | | | 50% | | | | |
| | | 170 | | 100% | | | | |
| | | Qtz. porphry stained with limonite, Weathering of feldspar apparent in fracture zones. Slight reddish tint of ferric iron | | 100% | | | | |
| Highly Fractured | | 180 | | | | | | |
| | | 190 | | 95% | | | | |
| | | | | 90% | | | | |
| Mod. Fractured | | 200 | | 100% | | | | |
| | | | | 40% | | | | |
| | | | | 95% | | | | |
| | | | | 90% | | | | |
| | | | | 50% | | | | |
| | | 210 | | 90% | | | | |
| | | | | 100% | | | | |
| | | | | 90% | | | | |
| | | | | 100% | | | | |
| Highly Fractured | | 220 | | No Record on Drillers Notes | | | | |
| | | 230 | | | | | | |
| | | Reddish stain becoming more frequent | | 100% | | | | |
| | | 240 | | | | | | |

4

HOLE 262-3
FROM 240 - 320
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION Vert DEPTH 240-320
STARTED 10/3/69 COMPLETED

Vert Scale 1" = 10'

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOVERED | CORE ASSAYS SECTION | CORE ASSAYS CU. | SLUDGE ASSAYS SECTION | SLUDGE ASSAYS CU. |
|---|---|---|---|---|---|---|---|---|
| | | 240 | | | | | | |
| Mod-high fracture | | Qtz. porphry with limonite and red ferric iron stain. Also some Mn stain. | | | | | | |
| | | 250 | | 100% | | | | |
| Intense fracturing | | Intense red staining | | | | | | |
| | | 260 | | 75% | | | | |
| | | 270 | | 100% | | | | |
| | | 280 | | | | | | |
| INTENSE FRACTURING | | Qtz porphry with limonite gossan staining. Intense fracturing & weathering | | 40% | | | | |
| | | | | 33% | | | | |
| | | | | 100% | | | | |
| | | | | 85% | | | | |
| | | 290 | | 95% | | | | |
| | | | | 95% | | | | |
| | | | | 100% | | | | |
| Mod Fracturing | | 300 | | 85% | | | | |
| | | | | 100% | | | | |
| Heavy Frac | | 310 | | NO CORE RECORDS | | | | |
| Moderate Fracturing | | | | 50% | | | | |
| | | 320 | | 100% | | | | |

HOLE 262-3
FROM 320 - 400
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION Vert DEPTH 320 - 400
STARTED 10/3/68 COMPLETED

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOVERED | CORE ASSAYS SECTION | CORE ASSAYS CU. | SLUDGE ASSAYS SECTION | SLUDGE ASSAYS CU. |
|---|---|---|---|---|---|---|---|---|
| Mod Fracture | | 320 Qtz. porphry with limonite stain, Weathering apparent. | | | | | | |
| Light Fracturing | | 330 Rock now exhibiting both limonite & red Ferric iron stain | | | | | | |
| Moderate FRACTURING | | 340 Red stain fading out. Heavy limonite stain still evident. | | | | | | |
| Highly Fractured | | 350 Qtz. porphry moderately to highly weathered | | 100% | | | | |
| MODERATE FRACTURING | | 360 | | | | | | |
| HEAVY FRACTURING | | 370 | | | | | | |
| | | 380 Red stain appears again grades out to pink | | | | | | |
| | | 390 | | | | | | |
| | | 400 | | | | | | |

HOLE 262-3
FROM
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION Vertical DEPTH 400-480
STARTED 10/3/68 COMPLETED

6

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOVERED |
|---|---|---|---|---|
| INTENSE FRACTURE | | 400 Qtz porphry with gossan material in form of limonite and traces of Ferric iron. | | |
| MODERATE TO HEAVY FRACTURE | | 410 Heavy weathering. Both limonitic & Ferric gossan material present | | |
| | | 420 | | |
| | | 430 432'. Apparent intrusion by greenish quartzite rock. Green color may be presence of hornblende & chlorite. Traces of flaky pyrite (minute). Rock grades to a qtz. breccia then to qtz. porphy. at 437'. | | 100% |
| MODERATE TO LIGHT FRACTURE | | 440 MODERATE & decreasing signs of weathering | | |
| SLIGHT TO NO FRACTURE | | 450 Rock has increasing feldspar content, biotite, becoming more granitic. Some surfaces show taley, chloritic areas. No more signs of Pyrite. | | |
| | | 460 | | |
| | | 470 GRANITE WITH CHLORITE epident. | | |
| | | 480 | | |

| CORE ASSAYS | | | | | |
|---|---|---|---|---|---|
| SECTION | CU. | Ag | Au | Mo | |
| 418'-428' | .03% | .15oz | T | .002% | |
| 428'-438' | T | .1oz | .005oz | .002% | |
| 438'-448' | .03% | .15oz | T | T | |

| SLUDGE ASSAYS | | | | | |
|---|---|---|---|---|---|
| SECTION | CU. | | | | |

30 So. Main St.
P. O. Box 1889

# Jacobs Assay Office

## Registered Assayers

PHONE Main 2-0813

Certificate No. 58441

85702 Tucson, Arizona, Oct. 30th 1968

Sample Submitted by Mr. Heinrichs Geoexploration

| 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 | Per cent Wet Assay |
|---|---|---|---|---|---|---|---|
| | | $ | | | | | |
| 601 | Trace | | 0.15 | 0.03 | | 0.002 | |
| 602 | 0.005 | 0.17 | 0.10 | Trace | | Trace | |
| 603 | Trace | | 0.15 | 0.03 | | Trace | |
| 604 | | | | 0.03 | | | |
| 605 (605) | | | | Trace | | | |
| 606 | | | | 0.03 | | | |

HEINRICHS GEOEX
GEOPHYSICAL ENGINEERS
TUCSON, ARIZONA

OCT 31 1968

Bad Rip
Hole #3

REGISTERED ASSAYER
CERTIFICATE EXPIRES
1041
BENJAMIN P. JACOBS
DEC. 31, 19
Arizona

• Gold Figured $35.00 per oz. Troy

Charges $ 30.00

BOX 5671 TUCSON, ARIZONA 85703

Phone: (AREA 602) 623-0578

Very respectfully,

Ben P. Jacobs

HOLE 262-3
FROM
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION Vertical DEPTH 480-560
STARTED 10/3/69 COMPLETED

7.

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOV'D | CORE ASSAYS SECTION | CORE ASSAYS CU. | SLUDGE ASSAYS SECTION | SLUDGE ASSAYS CU. |
|---|---|---|---|---|---|---|---|---|
| | | 480 Pink Granitic material. No sulfides present. Slight weathering of feldspar to pale green. | | | | | | |
| | | 490 Chlorite present as dark green coating on some surfaces. Intermittent traces of ferric iron. White-taley | | | | | | |
| | | 500 coating on some surfaces | | 100% | | | | |
| | | 510 | | | | | | |
| | | 520 | | | | | | |
| | | Pink Granitic material. Some chlorite coating. Some | | | | | | |
| | | 530 feldspar weathering. | | | | | | |
| | | 540 | | 100% | | | | |
| | | Intense weathering of feldspar to pale green. | | | | | | |
| | | 547' Contact | | | 545-550' | .03% | | |
| | | 550 New Rock Type seems to be a ~~Quartz Gabbro~~ Diabase Shot through with vein Qtz. Disseminated pyrite thru rock. | | | | | | |
| | | 560 Trace of chalco. Also traces of epidote. Some surfaces have pk. slick coating. | | | | | | |

HOLE 262-3
FROM
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION Vertical DEPTH 560 - 640
STARTED 10/3/68 COMPLETED

8

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOVERED | CORE ASSAYS SECTION | CORE ASSAYS CU. | SLUDGE ASSAYS SECTION | SLUDGE ASSAYS CU. |
|---|---|---|---|---|---|---|---|---|
| | | 560 DIABASE ~~Qtz. Gabbro~~ SHOT THRU WITH Qtz. DISSEMINATED PYRITE. TRACES OF EPIDOTE. TALCY COATING ON SOME SURFACES. OCCASIONAL REDDISH COLOR ON TALCY SURFACES | | | | | | |
| | | 570 | | | | | | |
| | | 580 | | | | | | |
| | | | | 100% | | | | |
| | | 590 EXTREMELY TALCY SURFACES HEMATITE STAINING. | | | | | | |
| | | 600 | | | | | | |
| | | 610 Continuing ~~gabbroic~~ DIABASIC intrusive Epidote present. Almost complete absence of pyrite. Black & white taley-surfaces. | | | | | | |
| | | 620 Contact 621' | | 100% | 620-625 | T | | |
| | | Altered granite. Some feldspars altered to pale green. Slight pyrite mineralization at contact to 623'. Disappearing after that | | | | | | |
| | | 630 Chloritic & taley surfaces on some fragments. | | | | | | |
| | | 640 | | | | | | |

HOLE 262 #3
FROM
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION Vert DEPTH 640-720
STARTED 10/3/68 COMPLETED



| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOV'D | CORE ASSAYS SECTION | CORE ASSAYS CU. | SLUDGE ASSAYS SECTION | SLUDGE ASSAYS CU. |
|---|---|---|---|---|---|---|---|---|
| | | 640 | | | | | | |
| | | Slightly altered granite. Some altering of Felspars to pale-green. Intermittent traces of hematite staining. Talcy-chloritic surfaces sometimes present. | | 100% | | | | |
| | | 650 | | | | | | |
| | | 660 | | | | | | |
| | | GRANITE shows some chloritic material. | | | | | | |
| | | 670 | | | | | | |
| | | 680 | | | | | | |
| | | GRANITE BECOMING MORE ALTERED, CONTAINING MORE CHLORITE, DISSEMINATED PYRITAZATION | | 100% | | | | |
| | | 690 | | | | | | |
| | | 700 | | | | | | |
| | | 707' Rock HEAVILY ALTERED. ~~[illegible]~~ CHLORITIC MATERIAL IN ABUNDANCE WITHIN ROCK. INCREASED PYRITE CONCEN, | | 100% | 707-727' | .03% | | |
| | | 710 | | | | | | |
| | | 720 | | | | | | |

HOLE 262 - #3
FROM [redacted]
ELEVATION
COORDINATES N. E
DIRECTION
INCLINATION Vert DEPTH 720 - 800
STARTED 10/3/68 COMPLETED



| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOVERED | CORE ASSAYS SECTION | CORE ASSAYS CU. | SLUDGE ASSAYS SECTION | SLUDGE ASSAYS CU. |
|---|---|---|---|---|---|---|---|---|
| | | 700 | | | | | | |
| | | ALTERED GRANITE. TALCY, CHLORITIC SURFACES THROUGHOUT ROCK. TRACES OF DISSEMINATED PYRITE. TRACES OF HEMATITE ON SOME SURFACES. | | | 767-777' | 0320 | | |
| | | 730 | | | | | | |
| | | | | 100% | | | | |
| | | 740 | | | | | | |
| | | GRANITE SHOWS SLIGHT TO NO ALTERATION. CHLORITIC SURFACES ON SOME FACES. VERY SLIGHT AMOUNT PYRITE PRESENT. | | | | | | |
| | | 750 | | | | | | |
| | | 760 | | | | | | |
| | | | | 100% | | | | |
| | | 770 | | | | | | |
| | | MODERATE TO HIGH ALTERATION IN THIS AREA. | | | | | | |
| | | 780 | | | | | | |
| | | 790 | | | | | | |
| | | 800 | | | | | | |

HOLE 262-3
FROM
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION DEPTH 800-880
STARTED 10/3/68 COMPLETED

11

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOVERED | CORE ASSAYS SECTION | CORE ASSAYS CU. | SLUDGE ASSAYS SECTION | SLUDGE ASSAYS CU. |
|---|---|---|---|---|---|---|---|---|
| | | 800 | | | | | | |
| | | GRANITIC MATERIAL. INTERMITTENTLY CHLORITIC. SOME Feldspar weathering. TRACES OF PYRITE. | | | | | | |
| | | 810 | | | | | | |
| | | 820 | | | | | | |
| | | 830 | | 100% | | | | |
| | | 840 | | | | | | |
| | | 850 | | | | | | |
| | | 860 | | | | | | |
| | | Slight alteration zone, Much of the Feldspar altered to green. Pyrite more predominant but still in small amounts | | | | | | |
| | | 870 | | | | | | |
| | | 880 | | | | | | |
| | | GRANITIC; Chloritic material. | | | | | | |

HOLE 262 #3
FROM 880-937'
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION Vert DEPTH
STARTED 10/3/68 COMPLETED 10/30/68



| SECTION | COL. | GEOLOGY | SURVEY | % CORE RECOVERED | CORE ASSAYS SECTION | CORE ASSAYS CU. | SLUDGE ASSAYS SECTION | SLUDGE ASSAYS CU. |
|---|---|---|---|---|---|---|---|---|
| | | 880 | | | | | | |
| | | GRANTIC MATERIAL, INCREASING CHLORITIC CONTENT & Alteration of feldspars. | | | | | | |
| | | 890 | | | | | | |
| | | 892.2 → possible slickensides | | 100% | | | | |
| | | 900 | | | | | | |
| | | INTENSE Alteration (propylitic?) and brecciation. Heavy pyrite content. Possible copper | | 40% | | | | |
| | | 910 | | 70% | | .08 | | |
| | | Lost core from 917-920 | | | | | | |
| | | 920 | | | | .02 | | |
| | | | | 100% | | | | |
| | | 930 | | | | .03 | | |
| | | Possible grading out of alteration zone? | | | | | | |
| | | 940 Bottom of Hole 937' | | | | | | |

Bad Rip

HOLE 262-2 ①
FROM 0-80'
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION Vert DEPTH
STARTED 12 Aug 68 COMPLETED 25 Sept 68

Vert. Scale 1" = 10'

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOVERED | CORE ASSAYS SECTION | CORE ASSAYS CU. | SLUDGE ASSAYS SECTION | SLUDGE ASSAYS CU. |
|---|---|---|---|---|---|---|---|---|
| | | 0 - Ground Surface | | | | | | |
| | | 10 | | No Core | | | | |
| | | 20 | | | | | | |
| | | First core @ 23', granitic qtz porphyry red stain numerous fractures | | 100% | | | | |
| | | 27' - weathered diabase, much mn & Fe Ox in fractures - broken & weathered | | 100% | | | | |
| | | 30 sulfide oxidized & leached from fractures | | 60% | | | | |
| | | | | 100% | | | | |
| | | 40 | | 90% | | | | |
| | | | | 100% | | | | |
| | | 50 | | 80% | | | | |
| | | broken | | 100% | | | | |
| | | | | 100% | | | | |
| | | 61' - first py - in fractures | | 100% | | | | |
| | | 60 weathering less obvious, fractures filled, [redacted]. Fe ox & gyp | | 100% | | | | |
| | | | | 80% | | | | |
| | | strong gyp | | 100% | | | | |
| | | 70 | | 100% | | | | |
| | | | | 100% | | | | |
| | | | | 100% | | | | |
| | | 80 | | | | | | |

Bad-Rip

(3)

HOLE 262-68
FROM 80'-160'
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION vert DEPTH
STARTED 12 Aug 68 COMPLETED 25 Sept 68

Vert. Scale 1" = 10'

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOVERED | CORE ASSAYS SECTION | CORE ASSAYS CU. | SLUDGE ASSAYS SECTION | SLUDGE ASSAYS CU. |
|---|---|---|---|---|---|---|---|---|
| | | 80 | | | | | | |
| | | diabase as above | | 100% | | | | |
| | | | | 100% | 80-90' | 0.03 | | |
| | | magnetic | | | | | | |
| | | 90 | | 100% | | | | |
| | | | | | 90-100' | 0.05 | | |
| | | | | 100% | | | | |
| | | 100 | | | | | | |
| | | | | 100% | 100-108 | 0.04 | | |
| | | | | 100% | | | | |
| | | 110 | | 100% | 108-116 | | | |
| | | | | 100% | | | | |
| | | | | 100% | 116-123.5 | 0.06 | | |
| | | 120 | | | | | | |
| | | | | 100% | | | | |
| | | | | 100% | 123.5-133 | 0.05 | | |
| | | 130 | | 100% | | | | |
| | | | | 100% | 133-143 | 0.07 | | |
| | | 140 | | 100% | | | | |
| | | 143.5 strong py | | 100% | | | | |
| | | | | 100% | 143-153 | 0.06 | | |
| | | 150 | | 100% | | | | |
| | | strong py | | | | | | |
| | | | | ? | | | | |
| | | 160 | | | | | | |

Bad Rip #2

vert. Scale 1" = 10'

HOLE 262-2
FROM 160' - 240
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION Vert. DEPTH
STARTED 12 Aug 68 COMPLETED 25 Sept 68

(3)

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOVERED | CORE ASSAYS SECTION | CORE ASSAYS CU. | SLUDGE ASSAYS SECTION | SLUDGE ASSAYS CU. |
|---|---|---|---|---|---|---|---|---|
| | | 160 | | | | | | |
| | | very broken - contact, diabase & fine grained granitic rx - qtz porph. mineralization continues some what diminished | | 100% | 159-164 | 0.06 | | |
| | | | | 100% | | | | |
| | | | | 100% | 165-168 | 0.03 | | |
| | | | | 100% | | | | |
| | | 170 | | 100% | | | | |
| | | | | 100% | 168-177 | 0.02 | | |
| | | lost water (fault) | | 100% | | | | |
| | | coser grained, more qtz. | | 100% | | | | |
| | | 180 | | 100% | 177-182 | 0.03 | | |
| | | | | 100% | | | | |
| | | | | 100% | 182-187 | Tr. | | |
| | | 187-189 - fine gr. chloritic mat'l. may be altered andesite(?) | | 100% | | | | |
| | | 190 189 - Qtz porphyry - granitic | | 100% | 187-192 | 0.04 | | |
| | | py in fractures - usually altered & chloritic walls | | 100% | 192-194 | 0.05 | | |
| | | cemented hole @ 194' | | 100% | 194-198 | 0.04 | | |
| | | | | 100% | | | | |
| | | 200 | | 100% | | | | |
| | | | | 100% | 202-212 | 0.05 | | |
| | | | | 100% | | | | |
| | | 210 | | 100% | | | | |
| | | | | 100% | 212-222 | 0.04 | | |
| | | | | 100% | | | | |
| | | 220 | | 100% | | | | |
| | | | | 100% | 222-228 | 0.02 | | |
| | | | | 100% | | | | |
| | | 230 cemented @ 230' | | 100% | 228.5-238 | 0.03 | | |
| | | | | 100% | | | | |
| | | | | 100% | | | | |
| | | 240 | | 100% | | | | |

Bad - Rip DDH #2

HOLE 262-2
FROM 240'-320'
ELEVATION
COORDINATES N. E
DIRECTION
INCLINATION vert. DEPTH
STARTED 12 Aug 68 COMPLETED 25 Sept 68

vert. scale 1" = 10'

| SECTION | COL | GEOLOGY |
|---|---|---|
| | | 240 |
| | | Py fresh |
| | | Less than 1% |
| | | 250 nearly all in fractures |
| | | fldspars altered |
| | | 260 |
| | | 270 |
| | | 280 |
| | | 290 |
| | | 300 |
| | | 304 - soft - serpentine or talc-green more alt. |
| | | → Note - 2 boxes marked to contain interval 307' to 313' |
| | | 310 also has 3.5' fine grain material - py in fractures w/ dark pyroxene-amphibole & chlorite alt. |
| | | Crse grained |
| | | 320 |

| SURVEY | % CORE RECOVERED |
|---|---|
| | 100% |
| | 100% |
| | 100% |
| | 100% |
| | 100% |
| | 100% |
| | 100% |
| | 100% |
| | 100% |
| | 100% |
| | 100% |
| | 100% |
| | 100% |

| CORE ASSAYS SECTION | CU. |
|---|---|
| 238-245 | 0.03 |
| 245-250 | 0.05 |
| 250-255 | 0.04 |
| 255-260 | 0.02 |
| 260-265 | 0.02 |
| 265-270 | 0.03 |
| 270-275 | 0.04 |
| 275-280 | 0.02 |
| 280-285 | 0.02 |

| SLUDGE ASSAYS SECTION | CU. |
|---|---|
| | |

Bad Rip

(5)

HOLE 262-2
FROM 320' - 400'
ELEVATION
COORDINATES N E
DIRECTION vert
INCLINATION DEPTH
STARTED 12 Aug 68 COMPLETED 25 Sept 68

Vert. Scale 1" = 10'

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOVERED | CORE ASSAYS SECTION | CORE ASSAYS CU. | SLUDGE ASSAYS SECTION | SLUDGE ASSAYS CU. |
|---|---|---|---|---|---|---|---|---|
| | | 320 | | 100% | | | | |
| | | 324-331 - fine grained, fractures w/ py & qtz | | 100% | | | | |
| | | 330 | | 100% | | | | |
| | | gouge, broken, stronger alt. | | 100% | | | | |
| | | 338-347 - more qtz | | | | | | |
| | | 340 | | 100% | | | | |
| | | Note - 2 boxes show interval 343' to 348' | | | | | | |
| | | 350 | | | | | | |
| | | 360 | | | | | | |
| | | 370 | | | | | | |
| | | 379-393 - more qtz | | | | | | |
| | | 380 | | 100% | | | | |
| | | | | 100% | | | | |
| | | 390 | | 100% | | | | |
| | | 395 - to 412 fine gr. | | 100% | | | | |
| | | 400 | | | | | | |

Bad Rip

(6)

HOLE 262-2
FROM 400'-480'
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION vert. DEPTH
STARTED 12 Aug 68 COMPLETED 25 Sept 68

vert. scale 1" = 10'

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOVERED | CORE ASSAYS SECTION | CORE ASSAYS CU. | SLUDGE ASSAYS SECTION | SLUDGE ASSAYS CU. |
|---|---|---|---|---|---|---|---|---|
| | | 400 | | | | | | |
| | | | | 100% | | | | |
| | | | | 100% | | | | |
| | | | | 100% | | | | |
| | | 410 | | | | | | |
| | | 412 - crse grained talcy, more altered, pr w/qtz in fractures | | 100% | | | | |
| | | 420 42 - 422 - fine gr. dioritic rx - fractured some py 421.5 | | | 417'-425' | 0.03 | | |
| | | 422 - 427 - crs grain granitic porph | | | | | | |
| | | 427 - 429.5 - fine grain granitic | | | | | | |
| | | 430 - 429.5 - 433.5 - diorite | | | 425-435 | 0.02 | | |
| | | 440 | | | 435-443 | 0.05 | | |
| | | | | | 443-450 | 0.03 | | |
| | | 450 | | | | | | |
| | | 460 | | | | | | |
| | | 470 | | | | | | |
| | | 480 | | | | | | |

Bad Rip

(7)

HOLE 262-2
FROM 480-560'
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION vert. DEPTH
STARTED 12 Aug 68 COMPLETED 25 Sept 68

vert. scale 1" = 10'

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOVERED | CORE ASSAYS SECTION | CORE ASSAYS CU. | SLUDGE ASSAYS SECTION | SLUDGE ASSAYS CU. |
|---|---|---|---|---|---|---|---|---|
| | | 480 | | | | | | |
| | | dioritic rx - more porphyrytic w/ depth - feldspars more altered - maybe granodiorite pyrite scarce or not present | | | | | | |
| | | 490 | | | | | | |
| | | 500 | | | | | | |
| | | 510 | | 100% | | | | |
| | | | | 100% | | | | |
| | | 520 | | 100% | | | | |
| | | | | 100% | | | | |
| | | 530 | | 100% | | | | |
| | | | | 100% | | | | |
| | | 540 | | 100% | | | | |
| | | | | 100% | | | | |
| | | 550 slight increase in py - disseminated | | 100% | | | | |
| | | 560 | | | | | | |

# Bad Rip

HOLE 262-2
FROM 560 - 640'
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION Vert. DEPTH
STARTED 12 Aug 68 COMPLETED 25 Sept 68

Vert. Scale 1" = 10'

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOVERED | CORE ASSAYS SECTION | CU. | Ag | Au | | | SLUDGE ASSAYS SECTION | CU. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 560 | | | | | | | | | | |
| | | — fine gr more biotite | | | | | | | | | | |
| | | oxidized Fe Ox specs - probably Py once | | | | | | | | | | |
| | | Felspars alt - gyp in place | | | | | | | | | | |
| | | 570 rock is tight | | | | | | | | | | |
| | | | | 100% | 572-577 | 0.02 | 0.15 | Tr | | | | |
| | | increase in py - still - 1% | | | | | | | | | | |
| | | | | 100% | 577-582 | 0.02 | 0.10 | 0.005 | | | | |
| | | 580 | | | | | | | | | | |
| | | | | 100% | 582-587 | 0.03 | 0.05 | Tr | | | | |
| | | | | 100% | 587-592 | 0.03 | 0.05 | Tr | | | | |
| | | 590 | | | | | | | | | | |
| | | 590 - 596.3 Fine grained matrix, rounded alt. Feldspars, no py, some Hbl (andesite?) | | | | | | | | | | |
| | | | | 100% | 592-599 | 0.02 | 0.20 | Tr | | | | |
| | | rock fresh, py about 1%, disseminated but definitely increase, granodiorite possibly, tight rock | | | | | | | | | | |
| | | 600 ← 600 - magnetite & specularite | | 100% | 597-602 | 0.04 | 0.10 | Tr | | | | |
| | | | | 100% | 602-607 | 0.02 | 0.10 | Tr | | | | |
| | | 610 | | 100% | 607-612 | 0.03 | 0.15 | 0.005 | | | | |
| | | | | 100% | 612-617 | 0.03 | 0.05 | Tr | | | | |
| | | 620 | | 100% | 617-622 | 0.04 | 0.05 | Tr | | | | |
| | | | | 100% | 622-627 | 0.03 | 0.10 | 0.005 | | | | |
| | | Py % dropping | | | | | | | | | | |
| | | 630 | | 100% | 627-632 | 0.02 | 0.10 | Tr | | | | |
| | | more altered | | | | | | | | | | |
| | | 640 - broken | | | | | | | | | | |

# Bad Rip

HOLE 262-2
FROM 640'-720'
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION vert. DEPTH
STARTED 12 Aug 68 COMPLETED 25 Sept 68

vert. scale 1" = 10'

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOVERED | CORE ASSAYS SECTION | CU. | Ag | Au | | | SLUDGE ASSAYS SECTION | CU. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 640 | | | | | | | | | | | | | | |
| | | broken more altered | | | | | | | | | | | | | | |
| | | solid, less altered, py % pickup | | | | | | | | | | | | | | |
| | | 650 | | | | | | | | | | | | | | |
| | | qvp, chloritic on fracture minor py | | 100% | 654-659 | 0.11 | 0.15 | 0.005 | | | | | | | | |
| | | 660 | | 100% | 659-664 | 0.11 | 0.15 | 0.005 | | | | | | | | |
| | | broken, rock fine grained - qtz diorite ?) +1% py | | 100% | | | | | | | | | | | | |
| | | 670 | | | | | | | | | | | | | | |
| | | gouge, broken | | 100% | 669-674 | 0.05 | 0.05 | Tr | | | | | | | | |
| | | 674-676 - crse, porph, dioritic, more alt | | | 674-678 | 0.05 | 0.20 | Tr | | | | | | | | |
| | | fine gr. 680-679 - granitic, fine grained dioritic | | | 678-683 | 0.09 | 0.15 | Tr | | | | | | | | |
| | | strong py granitic porph pyrite 1% - some oxidation becomes more xtaline | | 100% | 683-688 | 0.03 | 0.15 | 0.005 | | | | | | | | |
| | | 690 | | 90% | 688-691 | 0.05 | 0.20 | Tr | | | | | | | | |
| | | | | 100% | 691-696 | 0.10 | 0.20 | 0.005 | | | | | | | | |
| | | | | 90% | 696-699 | 0.03 | 0.20 | 0.005 | | | | | | | | |
| | | 700 | | 100% | 699-704 | 0.04 | 0.10 | Tr | | | | | | | | |
| | | | | 100% | 704-707 | 0.04 | 0.10 | Tr | | | | | | | | |
| | | 707 - dk gray brecciated, chloritic fine grained - strong alt. py continues, becomes more xtaline w/ depth | | 100% | | | | | | | | | | | | |
| | | 710 | | 100% | | | | | | | | | | | | |
| | | 709' - 1' pink aplite (this is scattered thru out this section | | 100% | | | | | | | | | | | | |
| | | ↓ | | | | | | | | | | | | | | |
| | | 720 | | | | | | | | | | | | | | |

Bad Rip

HOLE 262-2
FROM 720 - 800
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION Vert. DEPTH
STARTED 12 Aug 68 COMPLETED 25 Sept 68

vert. Scale 1" = 10'

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOVERED |
|---|---|---|---|---|
| | | 720 | | |
| | | Same | | 100% |
| | | very minor cpy - | | |
| | | | | 100% |
| | | 730 | | |
| | | | | 100% |
| | | 740 | | |
| | | | | 95% |
| | | 748 - crse porph. granitic rock | | |
| | | 750 py + 1%, minor oxidation | | |
| | | very strong qtz (±15%) | | |
| | | 755 - 6" fine grained diorite | | 100% |
| | | | | 100% |
| | | | | 100% |
| | | 760 - very alt 760-763 | | 100% |
| | | 763 - fine grained & alt. diorite or | | |
| | | to 815' | | |
| | | 770 | | |
| | | 780 | | 100% |
| | | 790 | | 100% |
| | | 790 | | 100% |
| | | | | 100% |
| | | 800 | | 100% |

| CORE ASSAYS SECTION | CU. | Ag | Au | | | SLUDGE ASSAYS SECTION | CU. |
|---|---|---|---|---|---|---|---|
| 751-758 | 0.03 | 0.05 | Tr | | | | |
| 778-783 | 0.03 | 0.05 | Tr | | | | |
| 783-788 | 0.04 | 0.10 | Tr | | | | |
| 788-793 | 0.04 | 0.15 | Tr | | | | |
| 793-798 | 0.03 | 0.15 | Tr | | | | |

# Bad Rip

HOLE 262-2
FROM 800-880
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION Vert. DEPTH
STARTED 12 Aug 68 COMPLETED 25 Sept 68

vert. Scale 1" = 10'

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOVERED |
|---|---|---|---|---|
| | | 800 | | |
| | | less py | | 100% |
| | | | | 100% |
| | | 810 | | 100% |
| | | 818' - crse porph granitic rock | | |
| | | 820 py picks up again - in this rock py is in stronger concentrations & more massive looks very fresh - not xtoline | | |
| | | 830 | | |
| | | | | 100% |
| | | 840 | | 100% |
| | | | | 100% |
| | | 850 | | 100% |
| | | | | 100% |
| | | 860 | | 100% |
| | | | | 100% |
| | | 870 | | 100% |
| | | | | 100% |
| | | 880 | | |

| CORE ASSAYS SECTION | CU. | Pb | Au | | | SLUDGE ASSAYS SECTION | CU. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 798-803 | 0.03 | 0.10 | 0.005 | | | | | | | | |
| 803-808 | 0.05 | 0.15 | 0.005 | | | | | | | | |
| 808-813 | 0.04 | 0.15 | 0.005 | | | | | | | | |
| 813-818 | Tr | 0.15 | Tr | | | | | | | | |
| 818-823 | 0.06 | 0.05 | 0.005 | | | | | | | | |
| 823-828 | 0.03 | 0.20 | Tr | | | | | | | | |
| 829-834 | 0.04 | 0.15 | Tr | | | | | | | | |
| 834-839 | 0.04 | 0.15 | Tr | | | | | | | | |
| 839-844 | 0.03 | 0.05 | Tr | | | | | | | | |
| 844-849 | 0.03 | 0.10 | Tr | | | | | | | | |
| 849-854 | 0.04 | 0.05 | Tr | | | | | | | | |
| 854-859 | 0.04 | 0.15 | 0.005 | | | | | | | | |
| 859-864 | 0.02 | 0.10 | Tr | | | | | | | | |
| 864-869 | 0.03 | 0.05 | Tr | | | | | | | | |
| 869-874 | 0.04 | 0.05 | Tr | | | | | | | | |
| 874-879 | 0.04 | 0.15 | 0.005 | | | | | | | | |

Bad Rip

(12)

HOLE: 262-Z
FROM: 880 - 960
ELEVATION:
COORDINATES: N: E
DIRECTION:
INCLINATION: vert. DEPTH:
STARTED: 12 Aug 68 COMPLETED: 25 Sept 68

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOVERED | CORE ASSAYS SECTION | CU. | Ag | Au | | | SLUDGE ASSAYS SECTION | CU. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 880 | | | | | | | | | | |
| | | | | 100% | 879-884 | 0.03 | 0.10 | Tr | | | | |
| | | | | | 884-889 | 0.02 | 0.10 | Tr | | | | |
| | | 890 | | | | | | | | | | |
| | | | | 100% | 889-894 | 0.02 | 0.05 | Tr | | | | |
| | | 894 - 6" fine grained, chloritic rock | | | 894-899 | 0.03 | 0.05 | Tr | | | | |
| | | ~~897-899~~ ~~898~~ aplitic - 899 - 900 | | | | | | | | | | |
| | | 900 very tight qtz veinlets - 1/4" | | | 899-904 | 0.03 | 0.10 | 0.005 | | | | |
| | | | | | 904-909 | 0.03 | 0.05 | Tr | | | | |
| | | 910 | | | | | | | | | | |
| | | | | | 909-914 | 0.02 | 0.05 | Tr | | | | |
| | | 915-919 - stringers in fractures | | | 914-919 | 0.04 | 0.05 | Tr | | | | |
| | | 920 | | | 919-920 | 0.03 | 0.10 | 0.005 | | | | |
| | | alt of feldspars increasing | | | 920-925 | 0.02 | 0.05 | Tr | | | | |
| | | many frac. qtz filled | | | 925-930 | 0.04 | 0.15 | Tr | | | | |
| | | 930 | | | 928-933 | 0.03 | 0.10 | Tr | | | | |
| | | | | | 933-938 | 0.02 | 0.05 | Tr | | | | |
| | | 940 | | | 938-943 | 0.02 | 0.05 | Tr | | | | |
| | | | | | 943-948 | 0.02 | 0.05 | Tr | | | | |
| | | 950 | | | 948-953 | 0.03 | 0.10 | Tr | | | | |
| | | alt of feldspars nearly complete | | | 953-958 | 0.02 | 0.05 | Tr | | | | |
| | | 960 | | | 958-963 | 0.02 | 0.05 | Tr | | | | |

Bad-Rip

HOLE 262-2
FROM 960 - 1040
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION vert. DEPTH
STARTED 12 Aug 68 COMPLETED 25 Sept 68

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOVERY | CORE ASSAYS SECTION | CU. | AG | AU | | | SLUDGE ASSAYS SECTION | CU. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 960 | | | | | | | | | | |
| | | | | | 963'-968 | 0.03 | 0.05 | Tr | | | | |
| | | 970 | | | 968'-973 | 0.01 | 0.10 | Tr | | | | |
| | | | | | 973-978' | 0.02 | 0.10 | 0.005 | | | | |
| | | 980 | | | 978'-982' | 0.03 | 0.05 | Tr | | | | |
| | | very broken & brecciated | | | 982-987 | 0.03 | 0.10 | Tr | | | | |
| | | | | | 987-992 | 0.04 | 0.10 | Tr | | | | |
| | | 990 | | | 992-997 | 0.04 | 0.05 | Tr | | | | |
| | | | | 100% | 996-1001 | 0.02 | 0.10 | Tr | | | | |
| | | 1000 Py - 1% in fractures, very little dissemination | | 100% | 1001-1005 | 0.03 | 0.05 | 0.005 | | | | |
| | | | | 100% | 1005-1009 | 0.03 | 0.05 | Tr | | | | |
| | | 1010 | | 100% | 1009-1014 | 0.02 | 0.05 | Tr | | | | |
| | | thin qtz veinlets | | 100% | 1014-1019 | 0.03 | 0.10 | Tr | | | | |
| | | 1020 | | 100% | 1019-1023 | 0.02 | 0.05 | Tr | | | | |
| | | very qtz ose, Py stronger | | | 1023-1028 | 0.02 | 0.05 | 0.005 | | | | |
| | | 1029-1038, gouge very altered | | | 1028-1033 | 0.03 | 0.10 | Tr | | | | |
| | | 1030 | | | 1033-1038 | 0.02 | 0.10 | Tr | | | | |
| | | 1040 | | | | | | | | | | |

(14)

Bad Rip

HOLE 262-2
FROM 1040 - 1120
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION vert DEPTH
STARTED 12 Aug 68 COMPLETED 25 Sept 68

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOVERED |
|---|---|---|---|---|
| | | 1040 | | |
| | | Fold alt to greenish mineral - serpentine(?) soft qtz content down, by 1% or less | | 100% |
| | | 1050 fold - altered well | | |
| | | | | 100% |
| | | 1060 | | |
| | | | | 100% |
| | | -qtz up | | |
| | | 70 1080 | | 100? |
| | | | | |
| | | 80 1090 | | 95% |
| | | | | 100% |
| | | | | 100% |
| | | 1090 1091 - ground up py in fracture | | |
| | | | | 100% |
| | | | | 100% |
| | | 1100 | | |
| | | 1104-1103 not split | | ? |
| | | Reduced to BX core 1103 | | 100% |
| | | | | 100% |
| | | 1120 | | |
| | | qtz very strong | | 100% |
| | | oxidation shows in some fractures | | |
| | | 1120 | | 1130 |

| CORE ASSAYS SECTION | CU. | Ag | Au | | | SLUDGE ASSAYS SECTION | CU. |
|---|---|---|---|---|---|---|---|
| 1038-1043 | 0.02 | 0.05 | Tr | | | | |
| 1043-1045 | 0.04 | 0.10 | Tr | | | | |
| 1045-1049 | 0.03 | 0.10 | 0.005 | | | | |
| 1049-1059 | 0.02 | 0.05 | Tr | | | | |
| 1059-1064 | 0.03 | 0.05 | Tr | | | | |
| 1064-1067 | Tr | 0.15 | Tr | | | | |
| 1067-1070 | 0.02 | 0.10 | Tr | | | | |
| 1070-1075 | Tr | 0.10 | Tr | | | | |
| 1075-1080 | 0.02 | 0.15 | 0.005 | | | | |
| 1080-1085 | Tr | 0.10 | Tr | | | | |
| 1085-1090 | Tr | 0.15 | Tr | | | | |
| 1090-1095 | 0.02 | 0.15 | 0.005 | | | | |
| 1095-1100 | 0.03 | 0.05 | Tr | | | | |
| 1103-1113 | 0.03 | 0.05 | Tr | | | | |
| 1113-1123 | Tr | 0.05 | Tr | | | | |

Bad Rip

HOLE 262-2
FROM 1120 - 1200
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION Vert DEPTH
STARTED 17 Aug 68 COMPLETED 25 Sept 68

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOVERED | CORE ASSAYS SECTION | CU. | Ag | Au | | | SLUDGE ASSAYS SECTION | CU. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1120 | | | | | | | | | | |
| | | 1123 - qtz xtals - strong py in fracture | | | | | | | | | | |
| | | 1130 | | 100% | 1123-1133 | 0.02 | 0.10 | 0.005 | | | | |
| | | move vein qtz | | 100% | 1133-1143 | Tr | 0.10 | Tr | | | | |
| | | 1140 | | 100% | | | | | | | | |
| | | breccia ted. py 3-5% over 6" | | 100% | 1143-1153 | 0.03 | 0.15 | Tr | | | | |
| | | 1150 | | 100% | | | | | | | | |
| | | greenish mineral (serpentine?) & more orthoclase showing also biotite & pyroxene more qtz | | 100% | 1153-1163 | 0.02 | 0.15 | Tr | | | | |
| | | 1160 | | 100% | | | | | | | | |
| | | qtz & py very strong | | 100% | 1163-1168 | 0.02 | 0.10 | Tr | | | | |
| | | 1170 | | 100% | 1168-1173 | Tr | 0.05 | Tr | | | | |
| | | | | 95-100% | 1173-1178 | Tr | 0.15 | 0.005 | | | | |
| | | 1180 | | | | | | | | | | |
| | | 1183-1203 not split | | | | | | | | | | |
| | | 1189 - slickensides | | ? | | | | | | | | |
| | | 1190 | | | | | | | | | | |
| | | oxidation of py & open spaces | | | | | | | | | | |
| | | 1200 | | | | | | | | | | |

Bad-Rip

HOLE 262-2
FROM 1200-1280
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION Vert DEPTH
STARTED 12 Aug 68 COMPLETED 25 Sept 68

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOVERED | CORE ASSAYS SECTION | CU. | | | | | SLUDGE ASSAYS SECTION | CU. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1200 | | | | | | | | | | |
| | | | | 100% | 1203-1212 | 0.02 | 0.15 | Tr | | | | |
| | | 1210 | | 100% | | | | | | | | |
| | | | | 100% | 1212-1223 | 0.02 | 0.10 | Tr | | | | |
| | | orthoclase pink, picks up biotite & Hbl | | 100% | | | | | | | | |
| | | 1220 | | 100% | | | | | | | | |
| | | -- brecciated | | 100% | 1222-1232 | Tr | 0.10 | Tr | | | | |
| | | att. stronger | | 100% | | | | | | | | |
| | | 1230 | | | | | | | | | | |
| | | | | 100% | 1232-1242 | 0.02 | 0.15 | Tr | | | | |
| | | 1235-1239 - strong qtz | | 100% | | | | | | | | |
| | | 1240 | | | | | | | | | | |
| | | | | 100% | 1242-1252 | 0.03 | 0.15 | Tr | | | | |
| | | 1250 - 0.75 x 0.25 inch vug x terminated qtz xtal, cpy | | 100% | | | | | | | | |
| | | att. increase, more orth. | | 100% | 1252-1257 | Tr | 0.10 | 0.005 | | | | |
| | | 1260 | | 100% | 1257-1262 | Tr | 0.05 | Tr | | | | |
| | | 1262 - py ground up in fracture | | 100% | 1262-1267 | 0.02 | 0.05 | Tr | | | | |
| | | 1270 | | 100% | 1267-1272 | 0.02 | 0.10 | Tr | | | | |
| | | 1272½ - basic dike - (lost core 1273-1276) | | No core | 1272-1282 | 0.03 | 0.05 | Tr | | | | |
| | | 1280 | | 100% | | | | | | | | |

Bed- R.P

(17)

HOLE 262-2
FROM 1280 - 1360
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION vert. DEPTH
STARTED 12 Aug 68 COMPLETED 25 Sept 68

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOVERED | CORE ASSAYS SECTION | CU. | Ag | Au | | | SLUDGE ASSAYS SECTION | CU. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1280 | | | | | | | | | | |
| | | | | 100% | 1280-1292 | 0.03 | 0.15 | Tr | | | | |
| | | strong Py & qtz more orth | | | | | | | | | | |
| | | 1290 | | 100% | | | | | | | | |
| | | | | 100% | 1292-1302 | 0.02 | 0.05 | Tr | | | | |
| | | 1300 1299 strong py | | | | | | | | | | |
| | | | | | 1302-1312 | 0.02 | | | | | | |
| | | 1310 | | | | | | | | | | |
| | | | | | 1312-1322 | 0.03 | | | | | | |
| | | 1320 | | | | | | | | | | |
| | | | | | 1322-1332 | Tr | | | | | | |
| | | 1328 & 1330 pink color (oxidation?) | | 100% | | | | | | | | |
| | | 1330 | | | | | | | | | | |
| | | strong qtz & increased orthoclase | | 100% | 1332-1342 | 0.03 | | | | | | |
| | | 1340 | | | | | | | | | | |
| | | 1341 to 1360 gray, fine grain to porphyritic basic dike or sill - possibly andesite | | 90% | | | | | | | | |
| | | py continues as before | | | | | | | | | | |
| | | feldspars in porphyritic zone | | | 1342-1352 | 0.02 | | | | | | |
| | | 1350 moderately altered moderately magnetic | | 100% | | | | | | | | |
| | | | | 90% | | | | | | | | |
| | | | | | 1352-1362 | 0.03 | | | | | | |
| | | 1360 - 1360 - granitic rock | | 90% | | | | | | | | |

Bad Rip

(18)

HOLE 262-68
FROM 1360 - 1440
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION Vert. DEPTH
STARTED 12 Aug 68 COMPLETED 25 Sept 68

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOVERED | CORE ASSAYS SECTION | CU. | Ag | Au | | | SLUDGE ASSAYS SECTION | CU. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1360 | | | | | | | | | | | | | | |
| | | granitic rock, moderatly alt. | | | | | | | | | | | | | | |
| | | some serpentine? | | | | | | | | | | | | | | |
| | | Py same | | 85% | | | | | | | | | | | | |
| | | minor oxidation spots show | | 100% | 1362-1372 | 0.02 | | | | | | | | | | |
| | | 1370 | | 100% | | | | | | | | | | | | |
| | | | | 100% | 1372-1382 | Tr | | | | | | | | | | |
| | | 1380 | | 100% | | | | | | | | | | | | |
| | | | | 100% | 1382-1392 | 0.02 | | | | | | | | | | |
| | | 1390 | | 90% | | | | | | | | | | | | |
| | | | | 85% | | | | | | | | | | | | |
| | | | | 80% | 1392-1402 | 0.02 | | | | | | | | | | |
| | | 1400 | | 100% | | | | | | | | | | | | |
| | | | | 100% | 1402-1412 | 0.03 | | | | | | | | | | |
| | | 1410 | | 100% | | | | | | | | | | | | |
| | | | | 100% | 1412-1422 | 0.02 | | | | | | | | | | |
| | | 1420 | | 95% | | | | | | | | | | | | |
| | | | | 80% | 1422-1432 | 0.03 | | | | | | | | | | |
| | | | | 80% | | | | | | | | | | | | |
| | | 1430 | | 90% | | | | | | | | | | | | |
| | | alt | | 80% | 1432-1442 | 0.03 | | | | | | | | | | |
| | | gougy | | 76% | | | | | | | | | | | | |
| | | 1440 | | 100% | | | | | | | | | | | | |

Bard Rip

HOLE 262-2
FROM 1440 - to bottom 1488
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION vert. DEPTH
STARTED 17 Aug 68 COMPLETED 25 Sept 68

vert. Scale 1" = 10'

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOVERED | CORE ASSAYS SECTION | CORE ASSAYS CU. | CORE ASSAYS Ag | CORE ASSAYS Au | SLUDGE ASSAYS SECTION | SLUDGE ASSAYS CU. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 1440 | | | | | | | | |
| | | 1450 | | 100% 75% 50% | 1442-1452 | 0.02 | | | | |
| | | vert. striations | | 100% | | | | | | |
| | | strong qtz | | 100% | 1452-1462 | 0.03 | | | | |
| | | 1460 | | 70% 100% | | | | | | |
| | | alt. less intense - finer grained | | 95% | | | | | | |
| | | strong alt - gougy | | 75% 75% | 1462-1472 | 0.02 | | | | |
| | | 1470 | | 100% | | | | | | |
| | | gougy - chloritic, brecciate | | 50% | | | | | | |
| | | stronger orthoclase, less qtz | | 50% 50% | 1472-1482 | 0.02 | | | | |
| | | 1480 | | | | | | | | |
| | | Py - 1% | | 50% | | | | | | |
| | | qtz - 15% | | 90% | 1482 to bottom Hole | 0.03 | | | | |
| | | more altered | | 95% | | | | | | |
| | | bottom of hole | | 75% | | | | | | |
| | | 1490 | | | | | | | | |
| | | 1500 | | | | | | | | |

P. O. BOX 1889
30 S. MAIN ST.

# Jacobs Assay Office

Registered Assayers

PHONE MA 2-0813

Certificate No. 58424

TUCSON, ARIZONA, Sept 27th, 1968

Sample Submitted by Mr. Heinrichs Geoexploration Co

| SAMPLE MARKED | X | TOTAL COPPER % | X | SAMPLE MARKED | X | TOTAL COPPER % | X |
|---|---|---|---|---|---|---|---|
| #558 | | 003 | | #1296 | | 002 | |
| 59 | | 002 | | 97 | | 003 | |
| 60 | | 002 | | 98 | | 002 | |
| 61 | | 003 | | 99 | | Trace | |
| 62 | | 002 | | 1300 | | 002 | |
| 63 | | 003 | | #566 | | 003 | |
| 64 | | 003 | | 67 | | 002 | |
| 65 | | 002 | | 68 | | 002 | |
| 1294 | | Trace | | 69 | | 003 | |
| 95 | | 003 | | | | | |

HEINRICHS GEOEX
TUCSON, ARIZONA

SEP 30 1968

REGISTERED ASSAYER
CERTIFICATE EXPIRES
1041
BENJAMIN P.
JACOBS
Dec. 31, 1968
Arizona U. S. A.

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

Bad Rig Hole #2

Charges $38.00

Very respectfully,

Ben P. Jacobs

30 So. Main St.
P. O. Box 1889

# Jacobs Assay Office

## Registered Assayers

PHONE Main 2-0813

Certificate No. 58386 85702 Tucson, Arizona, July 20 1968

Sample Submitted by Mr. Heinrich Geoexploration PO 000644

| SAMPLE MARKED # (Feet) | 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 | Zinc Per cent Wet Assay | Per cent Wet Assay |
|---|---|---|---|---|---|---|---|
| 1307 519-520 | Trace | | 0.15 | 0.10 | | Trace | |
| 8 521-523 | 0.005 | 0.17 | 0.20 | 0.15 | | 0.003 | |
| 9 523-525 | Trace | | 0.15 | 0.06 | | Trace | |
| 1310 525-526.5 | Trace | | 0.15 | 0.14 | | Trace | |
| 11 526.5-528 | Trace | | 0.10 | 0.05 | | 0.002 | |
| 12 528-530 | 0.005 | 0.17 | 0.20 | 0.07 | | Trace | |
| 13 530-532 | 0.005 | 0.17 | 0.25 | 0.13 | | Trace | |
| 14 532-534 | Trace | | 0.15 | 0.07 | | 0.002 | |
| 15 534-536 | Trace | | 0.20 | 0.05 | | Trace | |
| 16 536-538 | Trace | | 0.10 | 0.06 | | Trace | |
| 17 538-541 | Trace | | 0.20 | 0.05 | | Trace | |
| 18 541-545 | 0.005 | 0.17 | 0.15 | 0.06 | | Trace | |
| 19 545-550 | Trace | | 0.25 | 0.03 | | Trace | |
| 20 550-555 | 0.005 | 0.17 | 0.20 | 0.07 | | 0.008 | |
| 21 555-560 | Trace | | 0.15 | 0.07 | | 0.00 | |

* Gold Figured $35.00 per oz. Troy

Charges $ 120.00

Very respectfully,

Ben P. Jacobs

REGISTERED ASSAYER CERTIFICATE EXPIRES 1041 BENJAMIN P. JACOBS DEC. 31, 1968

JUL 1968 GEOEX

30 So. Main St.
P. O. Box 1889

# Jacobs Assay Office

Registered Assayers

PHONE Main 2-0813

JUL 1968 GEOEX

Certificate No. 58387 85702 Tucson, Arizona, July 20th 1968

Sample Submitted by Mr. Heinrichs Geoexploration - P.O # 000644

| 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 | ✓ Per cent Wet Assay |
|---|---|---|---|---|---|---|---|
| (Feet) | | $ | | | | | |
| # 1322 560-565 | Trace | | 0.20 | 0.06 | | Trace | ✓ |
| 23 565-567 | Trace | | 0.25 | 0.08 | | Trace | |
| 24 567-568.5 | 0.005 | 0.17 | 0.25 | 0.08 | | Trace | |
| 25 568.5-575 | Trace | | 0.15 | 0.04 | | 0.002 | |
| 26 575-580 | Trace | | 0.10 | 0.07 | | Trace | |
| 27 580-585 | Trace | | 0.15 | 0.06 | | Trace | |
| 28 585-591 | Trace | | 0.20 | 0.10 | | Trace | |
| 29 591-596 | Trace | | 0.15 | 0.09 | | 0.002 | |
| 30 596-601 | Trace | | 0.20 | 0.06 | | Trace | |
| 31 601-606 | 0.005 | 0.17 | 0.25 | 0.10 | | Trace | |
| 32 606-611 | Trace | | 0.15 | 0.11 | | Trace | |
| 33 611-616 | 0.005 | 0.17 | 0.25 | 0.04 | | 0.002 | |
| 34 616-621 | Trace | | 0.10 | 0.07 | | Trace | |
| 35 621-626 | Trace | | 0.15 | 0.04 | | Trace | |
| 36 626-634 | Trace | | 0.15 | 0.10 | | Trace | |

REGISTERED ASSAYER CERTIFICATE EXPIRES 1041 BENJAMIN P. JACOBS DEC. 31, 1968 ARIZONA

* Gold Figured $35.00 per oz. Troy

Charges $ 120.00

Very respectfully

Ben P. Jacobs

JUL 1968 GEOEX

30 So. Main St.
P. O. Box 1889

# Jacobs Assay Office

## Registered Assayers

PHONE Main 2-0813

Certificate No. 58389

85702 Tucson, Arizona, July 24th 1968

Sample Submitted by Mr. Heinrichs Geoexploration 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 | X Per Cent Wet Assay |
|---|---|---|---|---|---|---|---|
| (Feet) | | $ | | | | | |
| #1337 634-640 | 0.005 | 0.17 | 0.10 | 0.09 | | Trace | |
| 38 640-645 | 0.005 | 0.17 | 0.10 | 0.15 | | Trace | |
| 39 645-650 | Trace | | 0.15 | 0.07 | | Trace | |
| 40 650-655 | Trace | | 0.10 | 0.09 | | Trace | |
| 41 655.7-657.3 | Trace | | 0.05 | 0.06 | | 0.002 | |
| 42 657.3-660 | Trace | | 0.05 | 0.07 | | 0.002 | |
| 43 660-665 | 0.005 | 0.17 | 0.10 | 0.05 | | Trace | |
| 44 665-670 | Trace | | 0.05 | 0.04 | | Trace | |
| 45 670-675 | 0.005 | 0.17 | 0.15 | 0.04 | | 0.002 | |
| 46 675-679 | Trace | | 0.10 | 0.07 | | 0.002 | |

REGISTERED ASSAYER
CERTIFICATE EXPIRES
1041
BENJAMIN P. JACOBS
68
Dec. 31, 19
Arizona U. S. A.

JUL 1968
GEOEX

* Gold Figured $35.00 per oz. Troy

Charges $ 80.00

Very respectfully,

Ben P. Jacobs

[illegible] Main St.
P. O. Box 1889

# Jacobs Assay Office

## Registered Assayers

PHONE Main 2-0813

Certificate No. 58401 85702 Tucson, Arizona, Aug 4th 1968

Sample Submitted by Mr. Heinrichs Geoexploration

| 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 | Per cent Wet Assay | Per cent Wet Assay |
|---|---|---|---|---|---|---|---|
| (Feet) | | $ | | | | | |
| #1347 679-684 | | | | 0.03 | | | |
| 48 684-689 | | | | 0.04 | | | |
| 49 689-694 | | | | 0.03 | | | |
| 50 694-697 | | | | 0.08 | | | |
| 51 697-706 | | | | 0.08 | | | |
| 52 706-714 | | | | 0.07 | | | |
| 53 714-719 | | | | 0.05 | | | |
| 54 719-723 | | | | 0.05 | | | |
| 55 723-728 | | | | 0.05 | | | |
| 56 728-733 | | | | 0.06 | | | |
| 57 745-750 | | | | 0.06 | | | |
| 58 750-755 | | | | 0.04 | | | |
| 59 735-740 | | | | 0.03 | | | |
| 60 740-745 | | | | 0.05 | | | |
| 61 733-735 | | | | 0.07 | | | |
| 62 755-759 | | | | 0.07 | | | |

Bad Rip #1

GEOEX
TUCSON, ARIZONA

AUG 5 1968

BOX 5871 TUCSON, ARIZ [illegible]
Phone: (AREA 602) [illegible]

REGISTERED ASSAYER
CERTIFICATE EXPIRES
[illegible]
BENJAMIN P.
JACOBS
Dec. 31, 19[illegible]
ARIZONA [illegible]

* Gold Figured $35.00 per oz. Troy

Charges $ 32.00

Very respectfully,

Ben P. Jacobs

30 So. Main St.
P. O. Box 1889

DUPLICATE

# Jacobs Assay Office

Registered Assayers

PHONE Main 2-0813

Certificate No. 58420

Tucson, Arizona, Sept 22 1968

Sample Submitted by Mr. Hennichs Geoexploration 000644

| 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 | ~~Per cent~~ Wet Assay | ~~Per cent~~ Wet Assay |
|---|---|---|---|---|---|---|---|
| | | $ | | | | | |
| # 137 | Trace | | 0.05 | 0.03 | | | |
| 138 | Trace | | 0.10 | 0.04 | | | |
| 139 | Trace | | 0.15 | 0.04 | | | |
| 140 | Trace | | 0.15 | 0.03 | | | |
| 141 | 0.005 | 0.17 | 0.10 | 0.03 | | | |
| 142 | 0.005 | 0.17 | 0.15 | 0.05 | | | |
| 143 | Trace | | 0.15 | 0.04 | | | |
| 144 | Trace | | 0.10 | 0.04 | | | |
| 145 | 0.005 | 0.17 | 0.15 | 0.06 | | | |
| 146 | Trace | | 0.20 | 0.03 | | | |
| 147 | Trace | | 0.15 | 0.04 | | | |
| 148 | Trace | | 0.15 | 0.04 | | | |
| 149 | Trace | | 0.05 | 0.03 | | | |
| 150 | Trace | | 0.10 | 0.03 | | | |
| # 152 | Trace | | 0.05 | 0.04 | | | |
| 153 | 0.005 | 0.17 | 0.15 | 0.04 | | | |
| 154 | Trace | | 0.10 | 0.02 | | | |
| 155 | Trace | | 0.05 | 0.03 | | | |
| 156 | Trace | | 0.05 | 0.04 | | | |
| 157 | 0.005 | 0.17 | 0.15 | 0.04 | | | |
| 158 | Trace | | 0.10 | 0.03 | | | |
| 159 | Trace | | 0.10 | 0.02 | | | |
| 160 | Trace | | 0.05 | 0.02 | | | |
| 161 | Trace | | 0.05 | 0.03 | | | |
| 162 | 0.005 | 0.17 | 0.10 | 0.03 | | | |
| 163 | Trace | | 0.05 | 0.03 | | | |
| 164 | Trace | | 0.05 | 0.02 | | | |
| 165 | Trace | | 0.05 | 0.04 | | | |
| 166 | 0.005 | 0.17 | 0.10 | 0.03 | | | |
| 167 | Trace | | 0.05 | 0.02 | | | |
| 168 | Trace | | 0.15 | 0.04 | | | |
| 169 | Trace | | 0.10 | 0.03 | | | |
| 170 | Trace | | 0.05 | 0.02 | | 262 | |
| 171 | Trace | | 0.05 | 0.02 | | | |
| 172 | 0.005 | 0.17 | 0.10 | 0.04 | | | |
| 173 | Trace | | 0.10 | 0.03 | | | |
| 174 | Trace | | 0.05 | 0.02 | | | |
| 175 | Trace | | 0.05 | 0.02 | | | |
| 176 | Trace | | 0.05 | 0.03 | | | |
| 177 | Trace | | 0.10 | 0.04 | | | |
| 178 | 0.005 | 0.17 | 0.10 | 0.02 | | | |
| 179 | Trace | | 0.05 | 0.03 | | | |
| 180 | Trace | | 0.10 | 0.03 | | | |
| 181 | Trace | | 0.10 | 0.04 | | | |
| 182 | Trace | | 0.05 | 0.04 | | | |
| 183 | Trace | | 0.10 | 0.02 | | | |
| 184 | 0.005 | 0.17 | 0.05 | 0.03 | | | |
| 185 | Trace | | 0.05 | 0.03 | | | |
| 186 | Trace | | 0.05 | 0.02 | | | |
| 187 | Trace | | 0.10 | 0.03 | | | |

REGISTERED ASSAYER
CERTIFICATE EXPIRES
1041
BENJAMIN P.
JACOBS
Dec. 31, 19 68
Arizona U.S.A.

* Gold Figured $35.00 per oz. Troy

Charges $ 300.00

Very respectfully,

Ben P. Jacobs

30 So. Main St.
P. O. Box 1889

DUPLICATE

# Jacobs Assay Office

Registered Assayers

PHONE Main 2-0813

Certificate No. 58421

Tucson, Arizona, Sept 22 8 196

Sample Submitted by Mr. Heinrichs Geoexploration 000644

| 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 | Per cent Wet Assay | Per cent Wet Assay |
|---|---|---|---|---|---|---|---|
| | | $ | | | | | |
| # 188 | Trace | | 0.05 | 0.02 | | | |
| 189 | 0.005 | 0.17 | 0.05 | 0.02 | | | |
| 190 | Trace | | 0.10 | 0.03 | | | |
| 191 | Trace | | 0.10 | 0.02 | | | |
| 192 | Trace | | 0.05 | 0.02 | | | |
| 193 | Trace | | 0.10 | 0.04 | | | |
| 194 | 0.005 | 0.17 | 0.10 | 0.03 | | | |
| 195 | Trace | | 0.05 | 0.02 | | | |
| 196 | Trace | | 0.05 | 0.02 | | | |
| 197 | Trace | | 0.05 | 0.02 | | | |
| 198 | Trace | | 0.15 | Trace | | | |
| 199 | Trace | | 0.10 | 0.02 | | | |
| 200 | Trace | | 0.10 | Trace | | | |
| # 553 | 0.005 | 0.17 | 0.15 | 0.02 | | | |
| 554 | Trace | | 0.10 | Trace | | | |
| 555 | Trace | | 0.15 | Trace | | | |
| 556 | 0.005 | 0.17 | 0.15 | 0.02 | | | |
| 557 | Trace | | 0.10 | 0.03 | | | |
| # 1273 | Trace | | 0.05 | 0.03 | | | |
| 74 | Trace | | 0.05 | Trace | | | |
| 75 | 0.005 | 0.17 | 0.10 | 0.02 | | | |
| 76 | Trace | | 0.10 | Trace | | | |
| 77 | Trace | | 0.15 | 0.03 | | | |
| 78 | Trace | | 0.15 | 0.02 | | | |
| 79 | Trace | | 0.10 | 0.02 | | | |
| 80 | Trace | | 0.05 | Trace | | | |
| 81 | 0.005 | 0.17 | 0.15 | Trace | | | |
| 82 | Trace | | 0.15 | 0.02 | | | |
| 83 | Trace | | 0.10 | 0.02 | | | |
| 84 | Trace | | 0.10 | Trace | | | |
| 85 | Trace | | 0.15 | 0.02 | | | |
| 86 | Trace | | 0.15 | 0.03 | | | |
| 87 | 0.005 | 0.17 | 0.10 | Trace | | | |
| 88 | Trace | | 0.05 | Trace | | | |
| 89 | Trace | | 0.05 | 0.02 | | | |
| 90 | Trace | | 0.10 | 0.02 | | | |
| 91 | Trace | | 0.05 | 0.03 | | | |
| 92 | Trace | | 0.15 | 0.03 | | | |
| 93 | Trace | | 0.05 | 0.02 | | | |

26 V

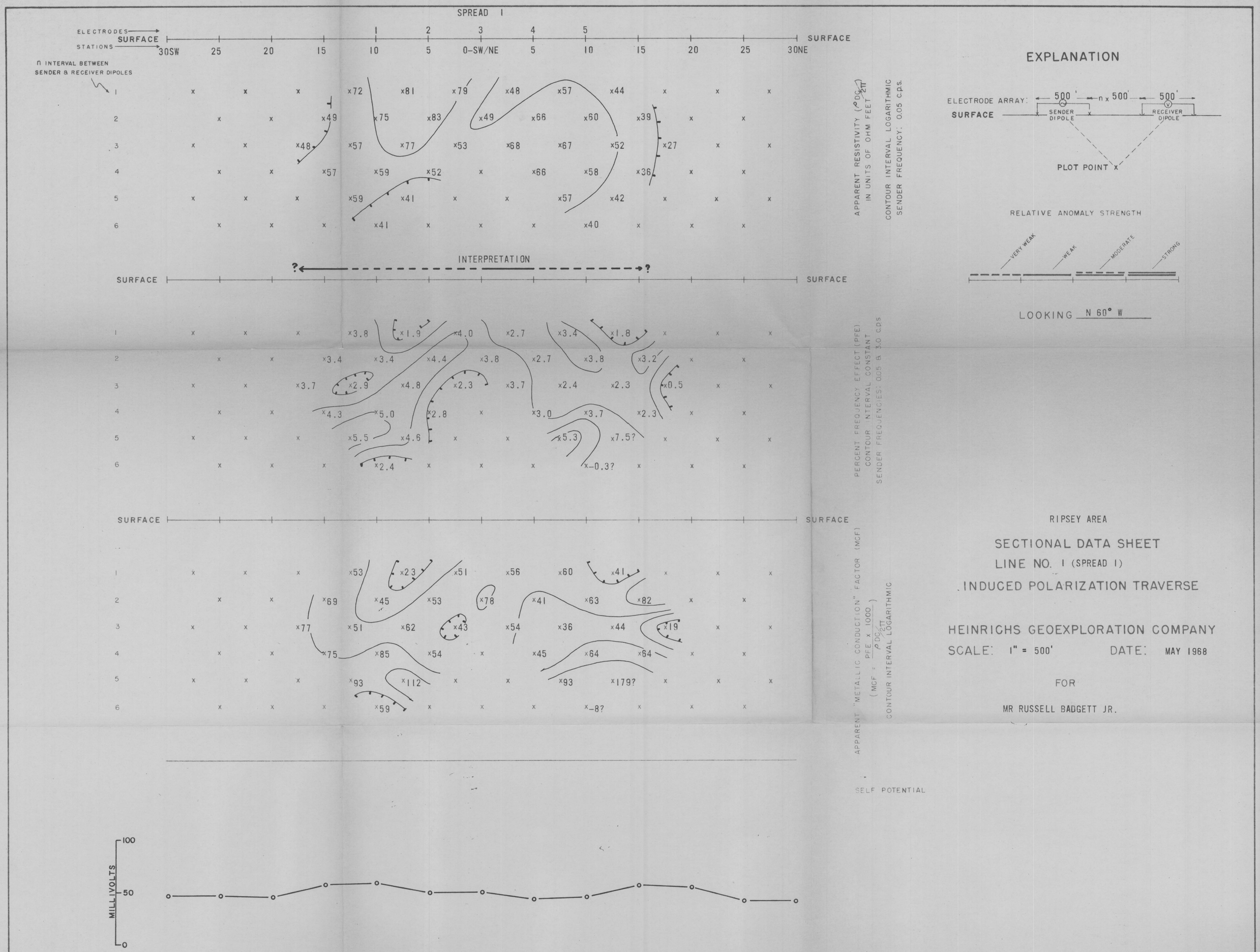
REGISTERED ASSAYER
CERTIFICATE EXPIRES
1041
BENJAMIN P.
JACOBS
Dec 31, 19 68
Arizona U.

* Gold Figured $35.00 per oz. Troy

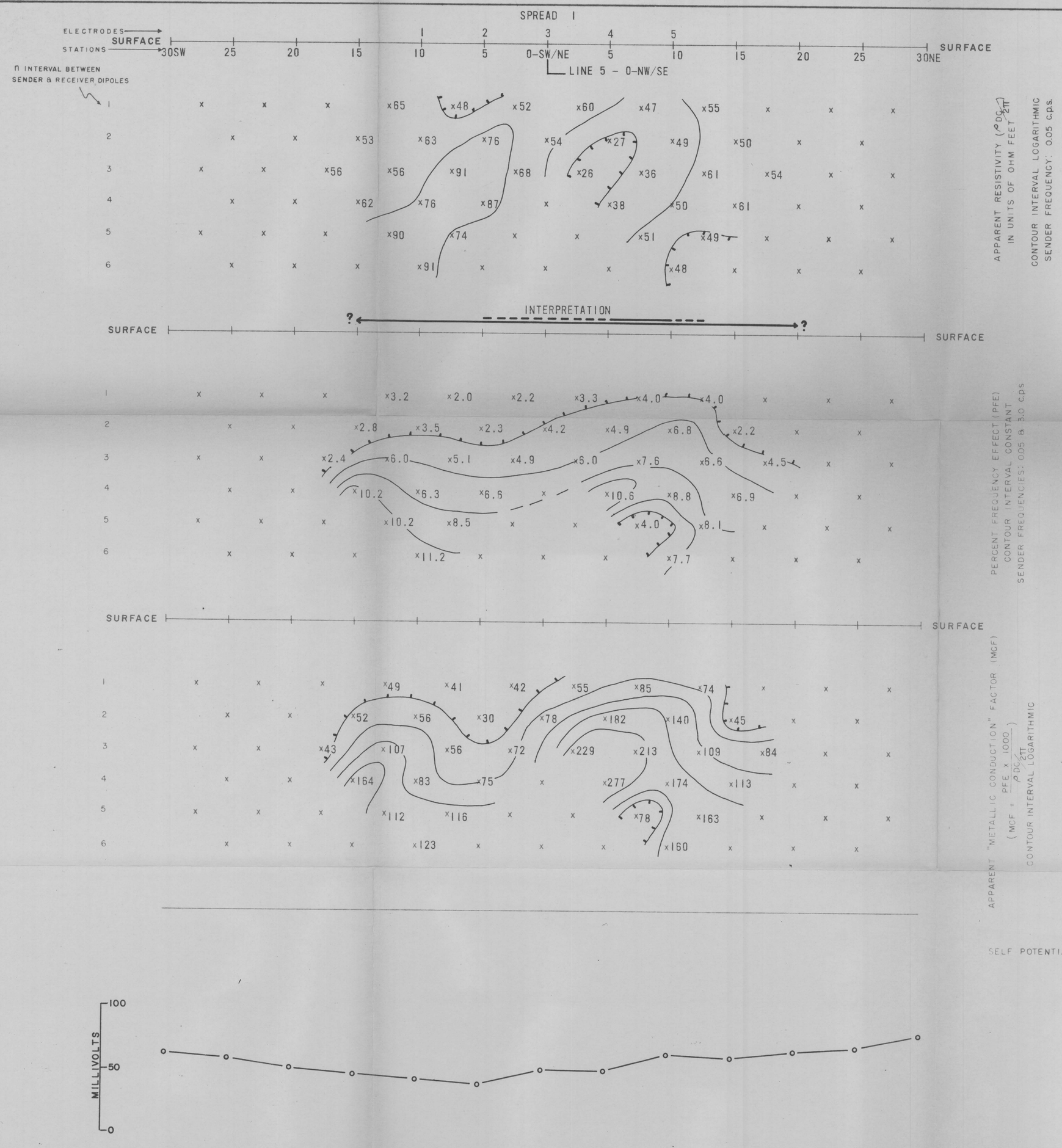
Charges $ 15.00

Very respectfully,

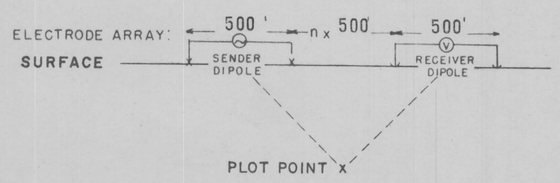
Ben P. Jacobs



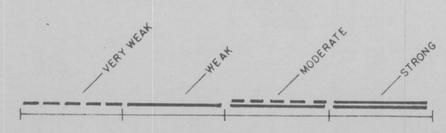

HEINRICHS
GEOEXPLORATION COMPANY
POST OFFICE BOX 5671, TUCSON, ARIZONA, 85703
Phone: 602/623-0578 Cable: GEOEX, Tucson
geophysical engineers
vancouver
sydney




## EXPLANATION




RELATIVE ANOMALY STRENGTH




LOOKING N 53° W

RIPSEY AREA

# SECTIONAL DATA SHEET
## LINE NO. 2 (SPREAD I)
## INDUCED POLARIZATION TRAVERSE

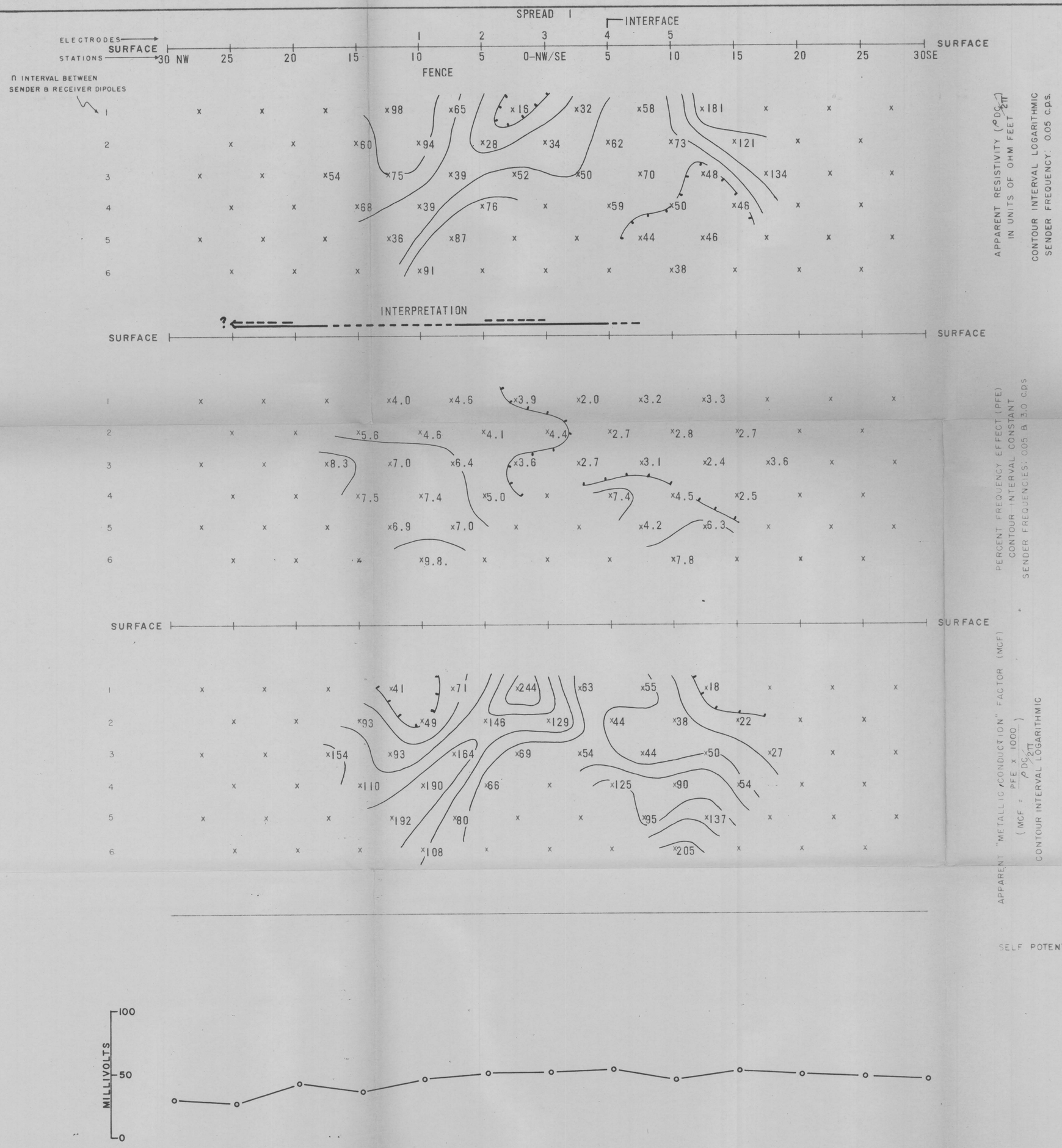
HEINRICHS GEOEXPLORATION COMPANY

SCALE: 1" = 500' DATE: JUL 1968

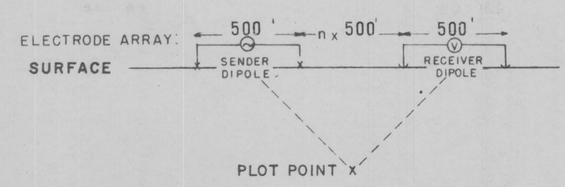
FOR

MR RUSSELL BADGETT JR.

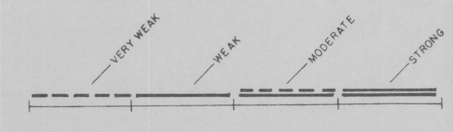
HEINRICHS
GEOEXPLORATION COMPANY
POST OFFICE BOX 5671, TUCSON, ARIZONA, 85703
Phone: 602/623-0578 Cable: GEOEX, Tucson
geophysical engineers
vancouver
sydney




## EXPLANATION




RELATIVE ANOMALY STRENGTH




LOOKING N 35° E

RIPSEY AREA

# SECTIONAL DATA SHEET

LINE NO. 3 (SPREAD 1)

INDUCED POLARIZATION TRAVERSE

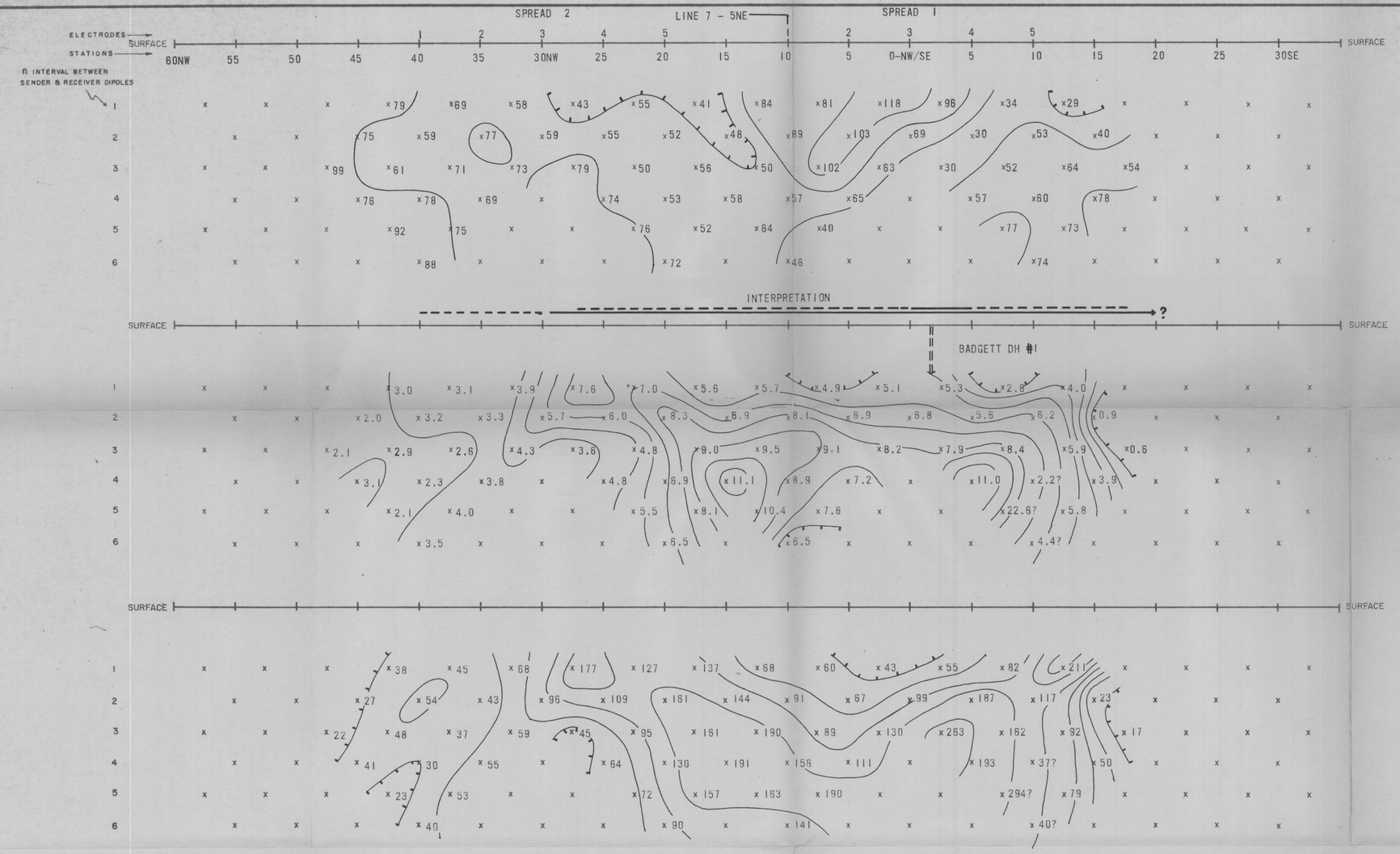
HEINRICHS GEOEXPLORATION COMPANY

SCALE: 1" = 500' DATE: MAY 1968

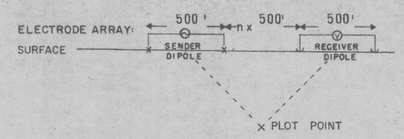
FOR

MR RUSSELL BADGETT JR.

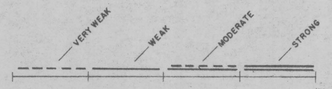
HEINRICHS
GEOEXPLORATION COMPANY
POST OFFICE BOX 5671, TUCSON, ARIZONA, 85703
Phone: 602/623-0578 Cable: GEOEX, Tucson
vancouver
sydney
geophysical engineers




## EXPLANATION




RELATIVE ANOMALY STRENGTH




LOOKING N 35° E

RIPSEY AREA

# SECTIONAL DATA SHEET

LINE NO. 4 (SPREADS 1 & 2)

INDUCED POLARIZATION TRAVERSE

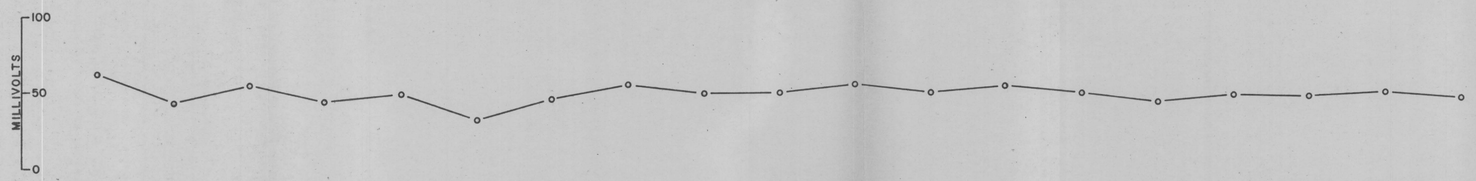
HEINRICHS GEOEXPLORATION COMPANY

SCALE: 1" = 500' DATE: MAY 1968 JUL 1968

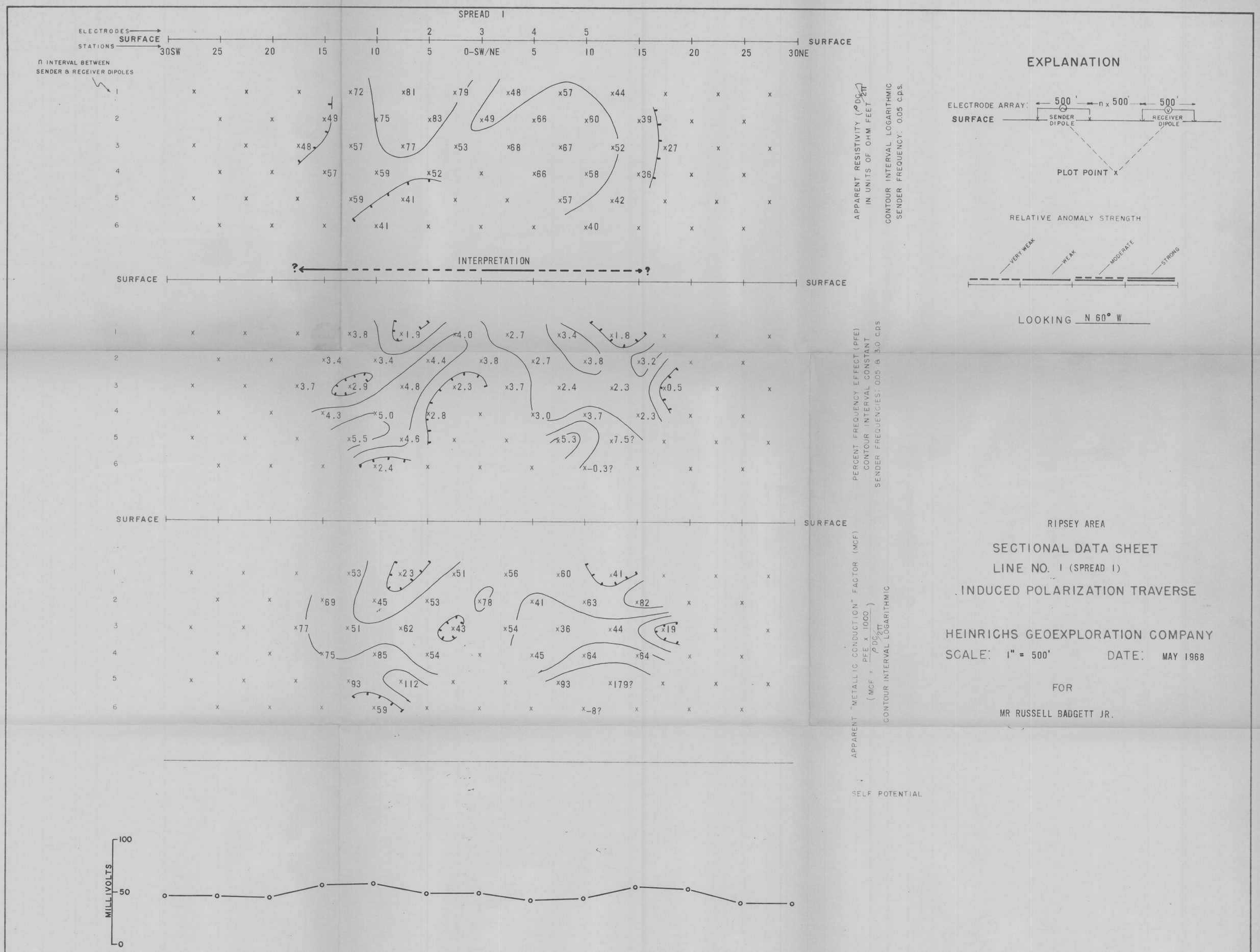
FOR

MR RUSSELL BADGETT JR.

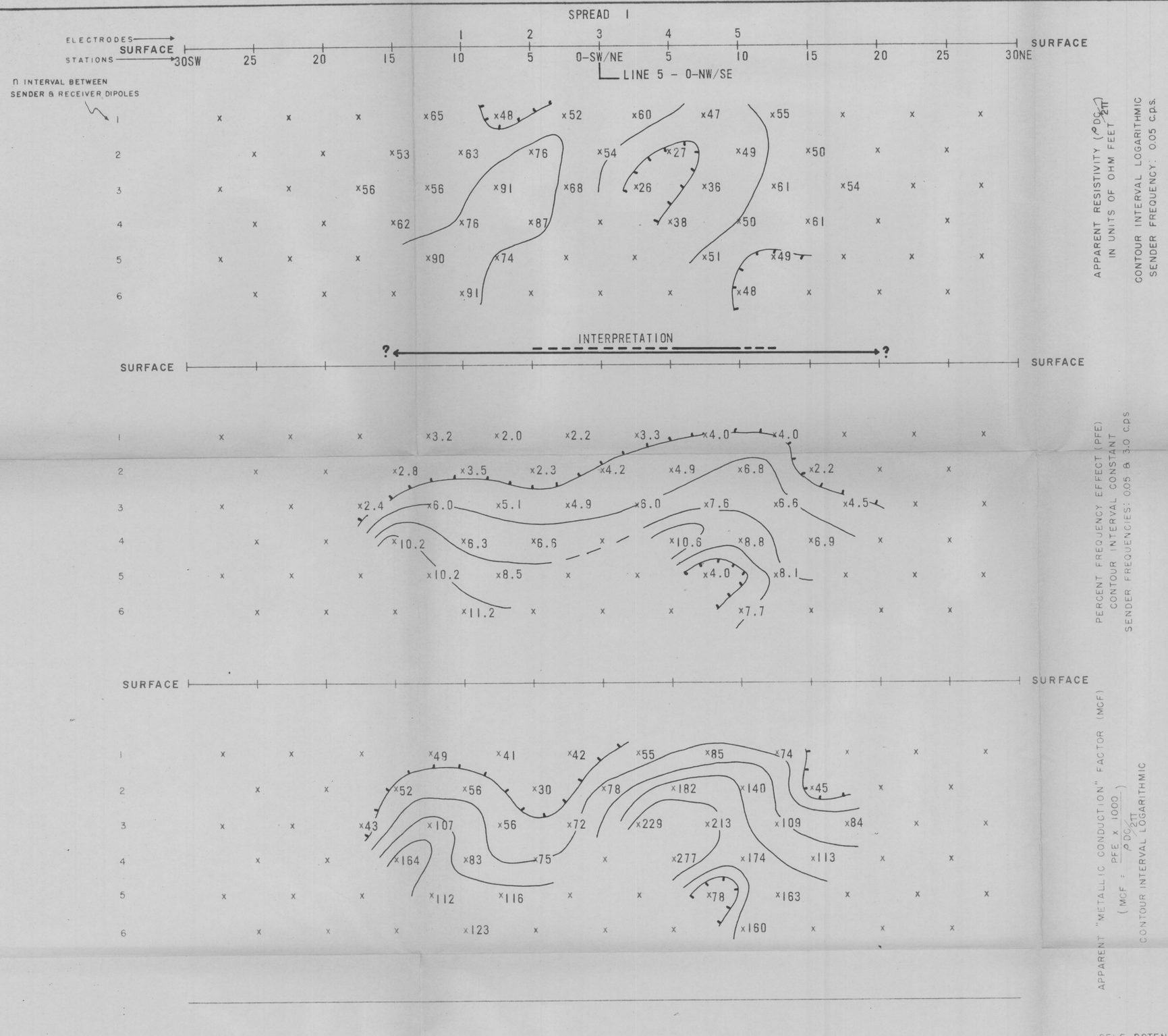
SELF POTENTIAL



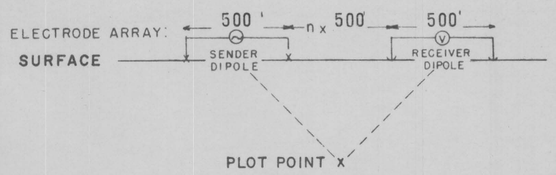

HEINRICHS GEOEXPLORATION COMPANY
POST OFFICE BOX 5671, TUCSON, ARIZONA, 85703
Phone: 602/623-0578 Cable: GEOEX, Tucson
vancouver sydney
geophysical engineers



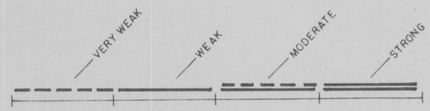

HEINRICHS
GEOEXPLORATION COMPANY
POST OFFICE BOX 5671, TUCSON, ARIZONA, 85703
Phone: 602/623-0578 Cable: GEOEX, Tucson
geophysical engineers
vancouver
sydney




## EXPLANATION




RELATIVE ANOMALY STRENGTH




LOOKING N 53° W

RIPSEY AREA

SECTIONAL DATA SHEET

LINE NO. 2 (SPREAD I)

INDUCED POLARIZATION TRAVERSE

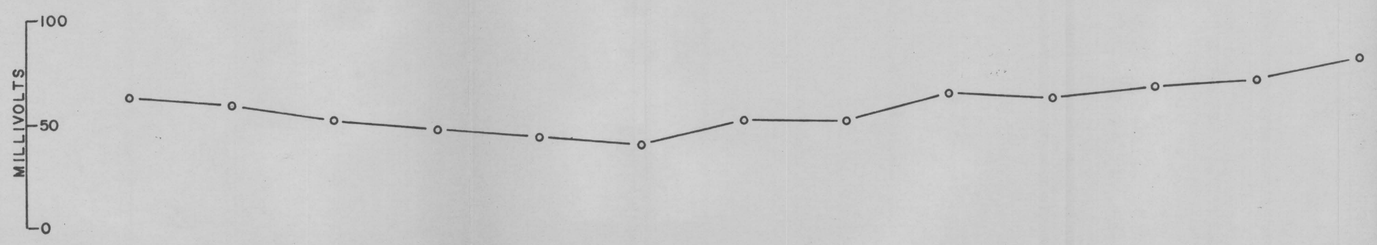
HEINRICHS GEOEXPLORATION COMPANY

SCALE: 1" = 500' DATE: JUL 1968

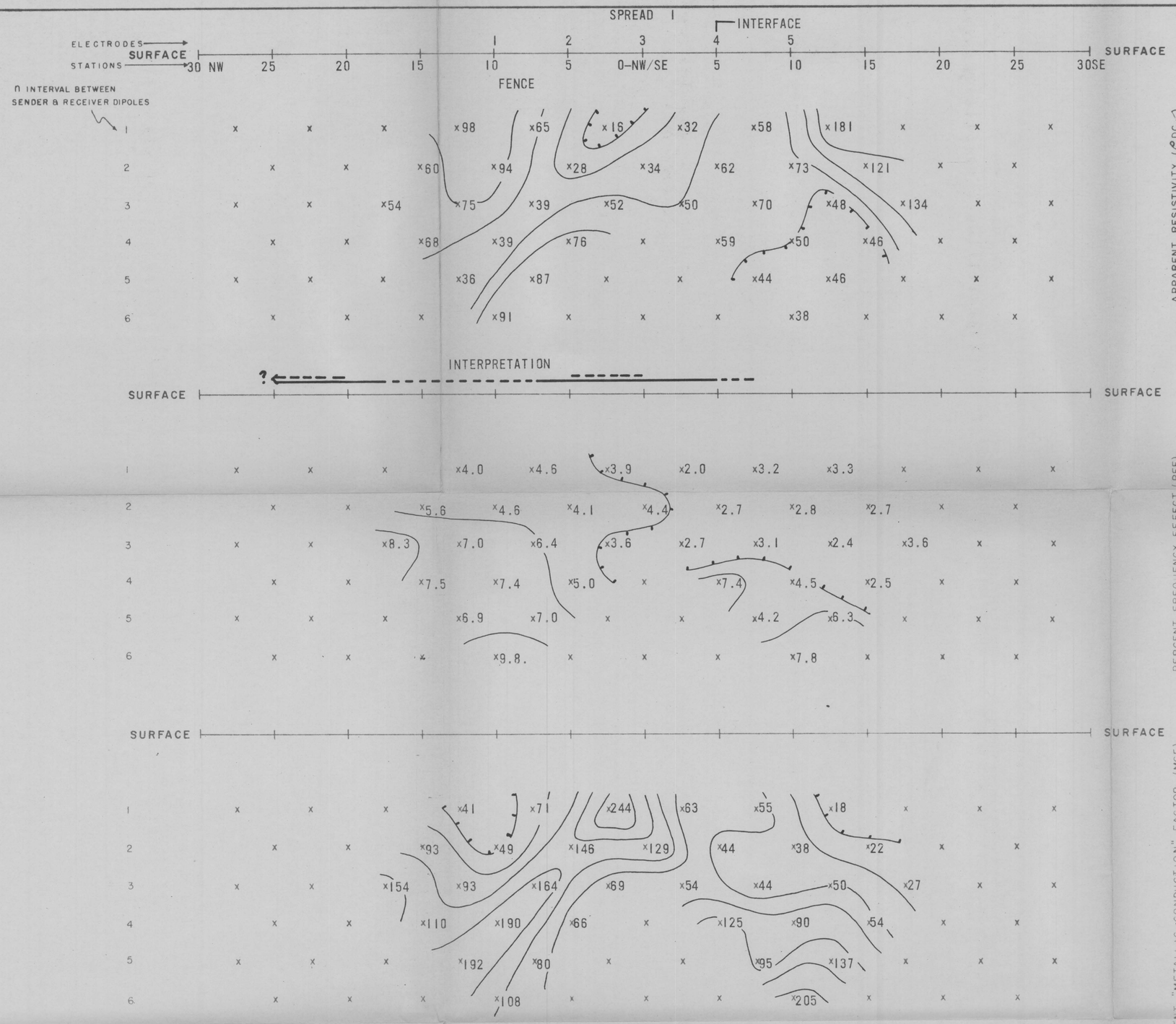
FOR

MR RUSSELL BADGETT JR.

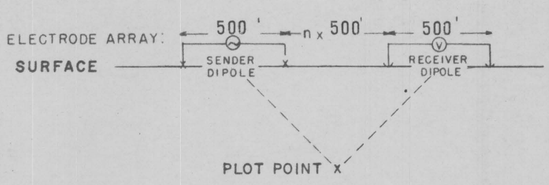
SELF POTENTIAL



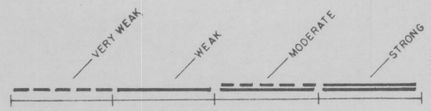

HEINRICHS
GEOEXPLORATION COMPANY
POST OFFICE BOX 5671, TUCSON, ARIZONA, 85703
Phone: 602/623-0578 Cable: GEOEX, Tucson
geophysical engineers
vancouver
sydney




## EXPLANATION




RELATIVE ANOMALY STRENGTH




LOOKING N 35° E

RIPSEY AREA

SECTIONAL DATA SHEET

LINE NO. 3 (SPREAD 1)

INDUCED POLARIZATION TRAVERSE

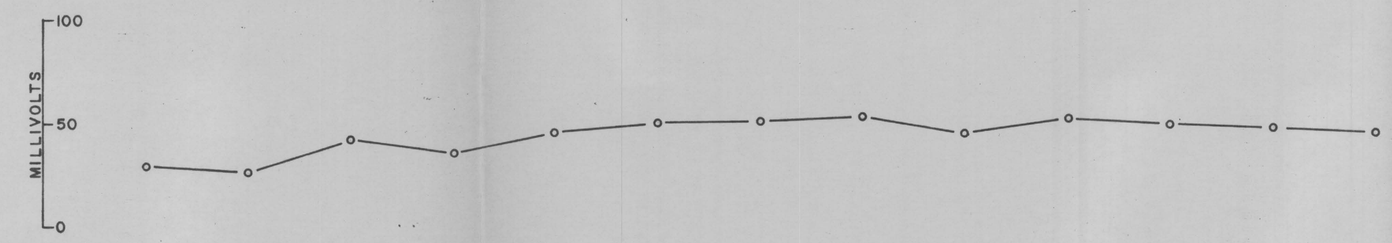
HEINRICHS GEOEXPLORATION COMPANY

SCALE: 1" = 500' DATE: MAY 1968

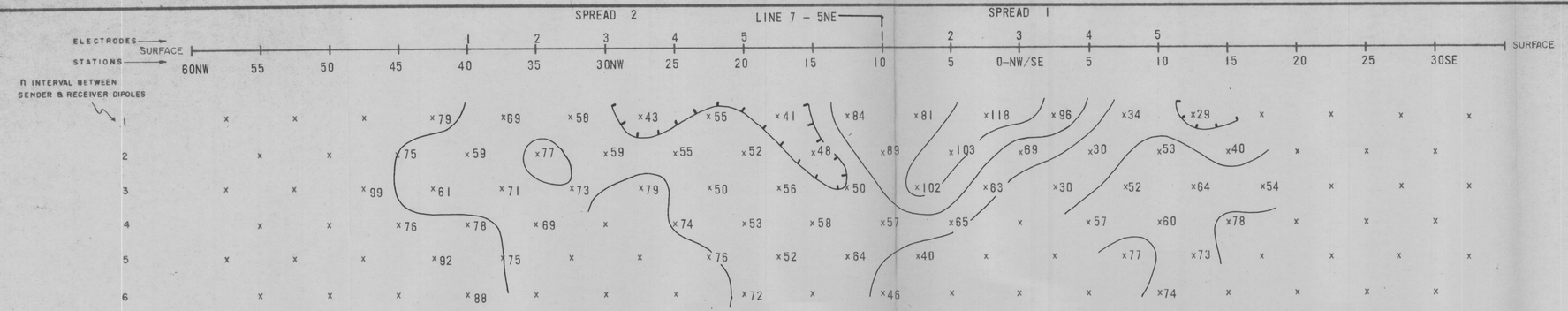
FOR

MR RUSSELL BADGETT JR.

SELF POTENTIAL

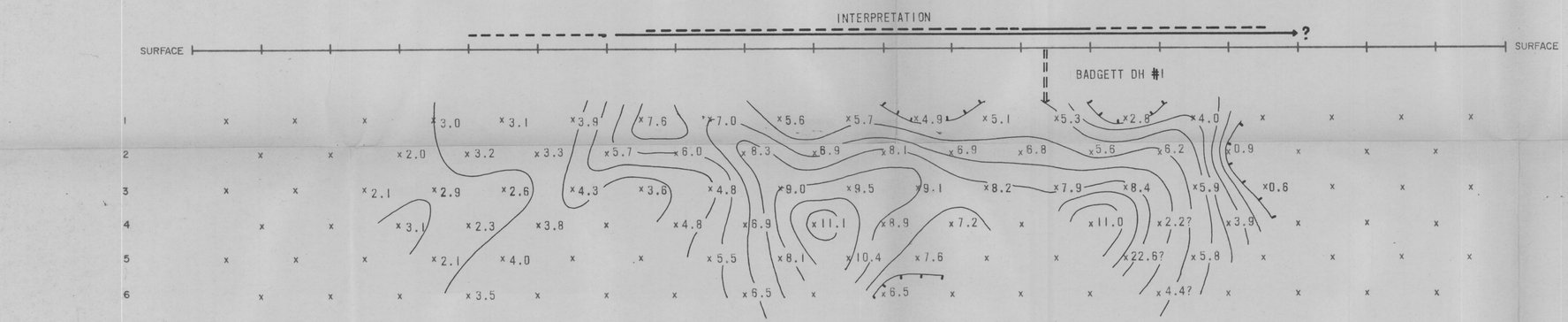



HEINRICHS
GEOEXPLORATION COMPANY
POST OFFICE BOX 5671, TUCSON, ARIZONA, 85703
Phone: 602/623-0578 Cable: GEOEX, Tucson
geophysical engineers
vancouver
sydney

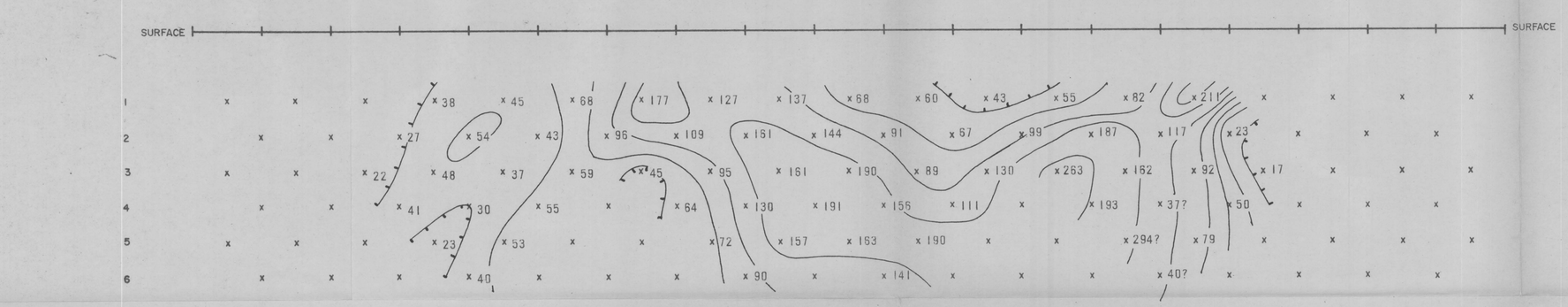



APPARENT RESISTIVITY ($\rho_{DC}$) IN UNITS OF OHM FEET

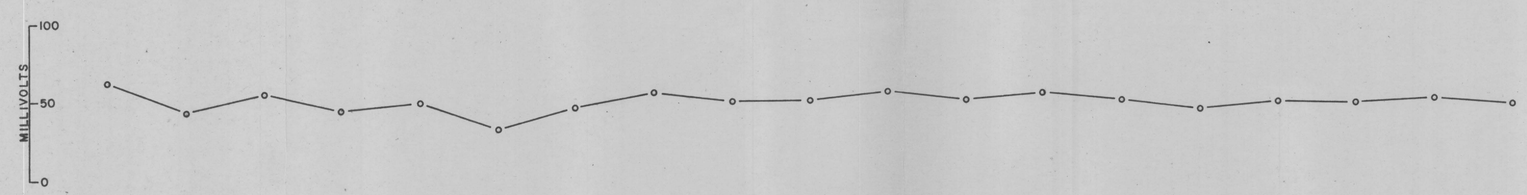
CONTOUR INTERVAL LOGARITHMIC
SENDER FREQUENCY: 0.05 c.p.s.




PERCENT FREQUENCY EFFECT (PFE)
CONTOUR INTERVAL CONSTANT
SENDER FREQUENCIES: 0.05 & 3.0 c.p.s.

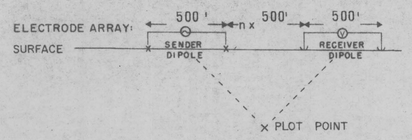



APPARENT "METALLIC CONDUCTION" FACTOR (MCF)
$\left(MCF = \frac{PFE \times 1000}{\rho_{DC}}\right)$
CONTOUR INTERVAL LOGARITHMIC

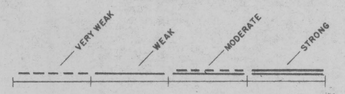



SELF POTENTIAL

## EXPLANATION




RELATIVE ANOMALY STRENGTH




LOOKING N 35° E

RIPSEY AREA

# SECTIONAL DATA SHEET
## LINE NO. 4 (SPREADS 1 & 2)
## INDUCED POLARIZATION TRAVERSE

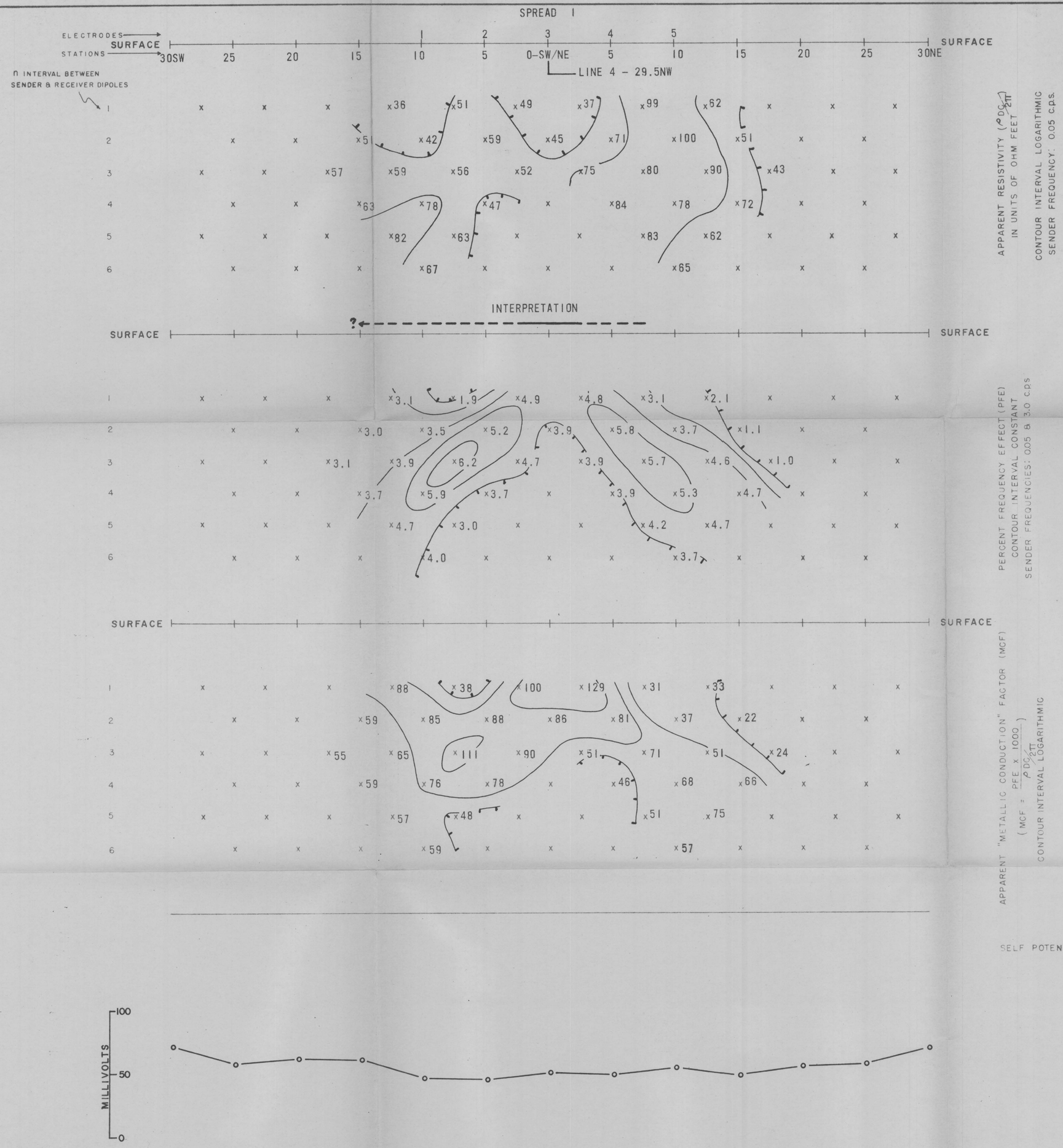
HEINRICHS GEOEXPLORATION COMPANY

SCALE: 1" = 500' DATE: MAY 1968
JUL 1968

FOR

MR RUSSELL BADGETT JR.

HEINRICHS
GEOEXPLORATION COMPANY
POST OFFICE BOX 5671, TUCSON, ARIZONA, 85703
Phone: 602/623-0578 Cable: GEOEX, Tucson
geophysical engineers
vancouver
sydney




## EXPLANATION

ELECTRODE ARRAY: 500' — n x 500' — 500'

SURFACE — SENDER DIPOLE — RECEIVER DIPOLE

PLOT POINT x

RELATIVE ANOMALY STRENGTH

VERY WEAK — WEAK — MODERATE — STRONG

LOOKING N 53° W

RIPSEY AREA

# SECTIONAL DATA SHEET

LINE NO. 6 (SPREAD I)

INDUCED POLARIZATION TRAVERSE

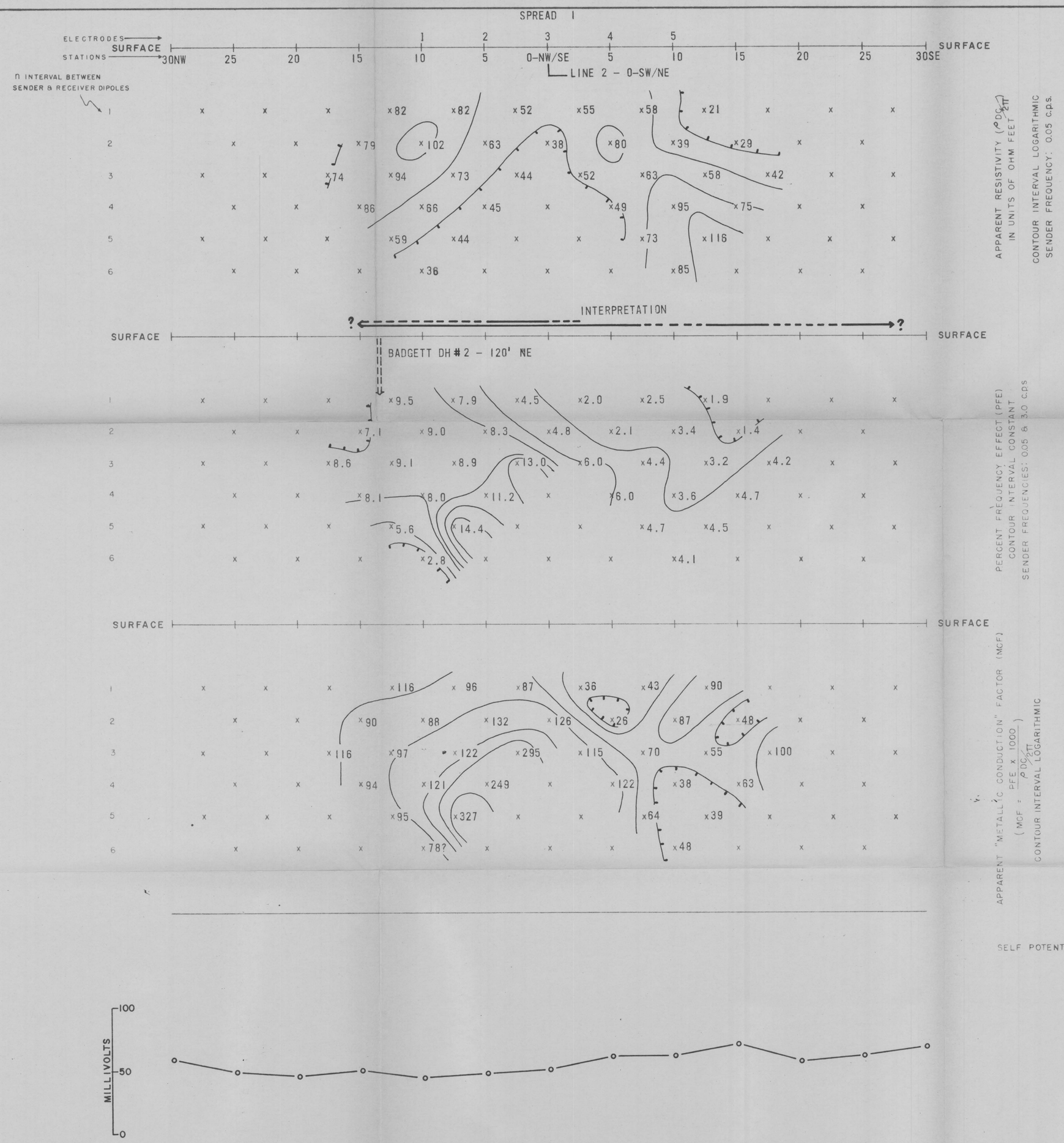
HEINRICHS GEOEXPLORATION COMPANY

SCALE: 1" = 500' DATE: JUL 1968

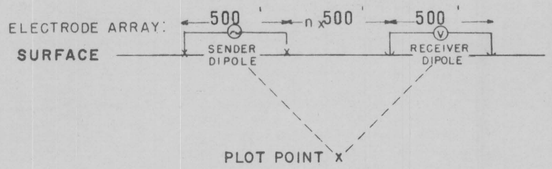
FOR

MR RUSSELL BADGETT JR.

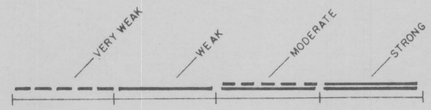
HEINRICHS
GEOEXPLORATION COMPANY
POST OFFICE BOX 5671, TUCSON, ARIZONA, 85703
Phone: 602/623-0578 Cable: GEOEX, Tucson
vancouver
sydney
geophysical engineers




## EXPLANATION




RELATIVE ANOMALY STRENGTH




LOOKING N 35° E

RIPSEY AREA

# SECTIONAL DATA SHEET

LINE NO. 5 (SPREAD I)

INDUCED POLARIZATION TRAVERSE

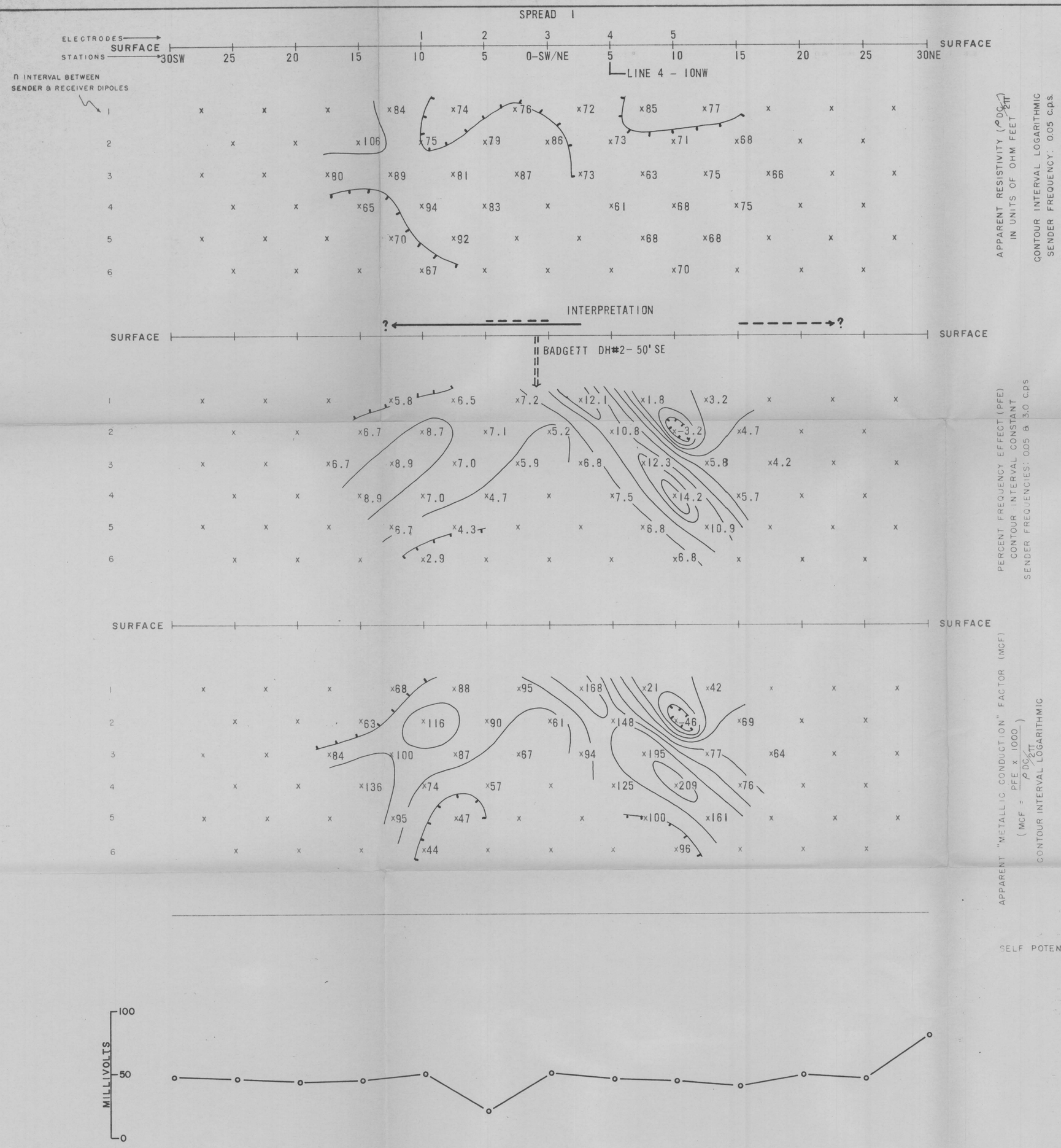
HEINRICHS GEOEXPLORATION COMPANY

SCALE: 1" = 500' DATE: MAY 1968

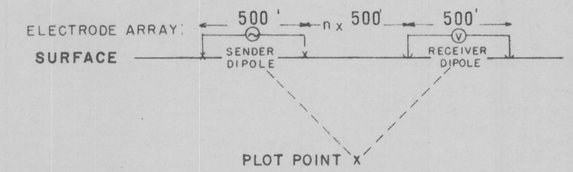
FOR

MR RUSSELL BADGETT JR.

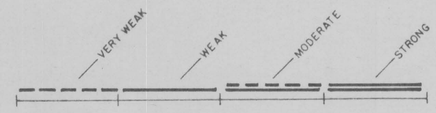
HEINRICHS
GEOEXPLORATION COMPANY
POST OFFICE BOX 5671, TUCSON, ARIZONA, 85703
Phone: 602/623-0578 Cable: GEOEX, Tucson
geophysical engineers
vancouver
sydney




## EXPLANATION




RELATIVE ANOMALY STRENGTH




LOOKING N 53° W

RIPSEY AREA

# SECTIONAL DATA SHEET
## LINE NO. 7 (SPREAD I)
## INDUCED POLARIZATION TRAVERSE

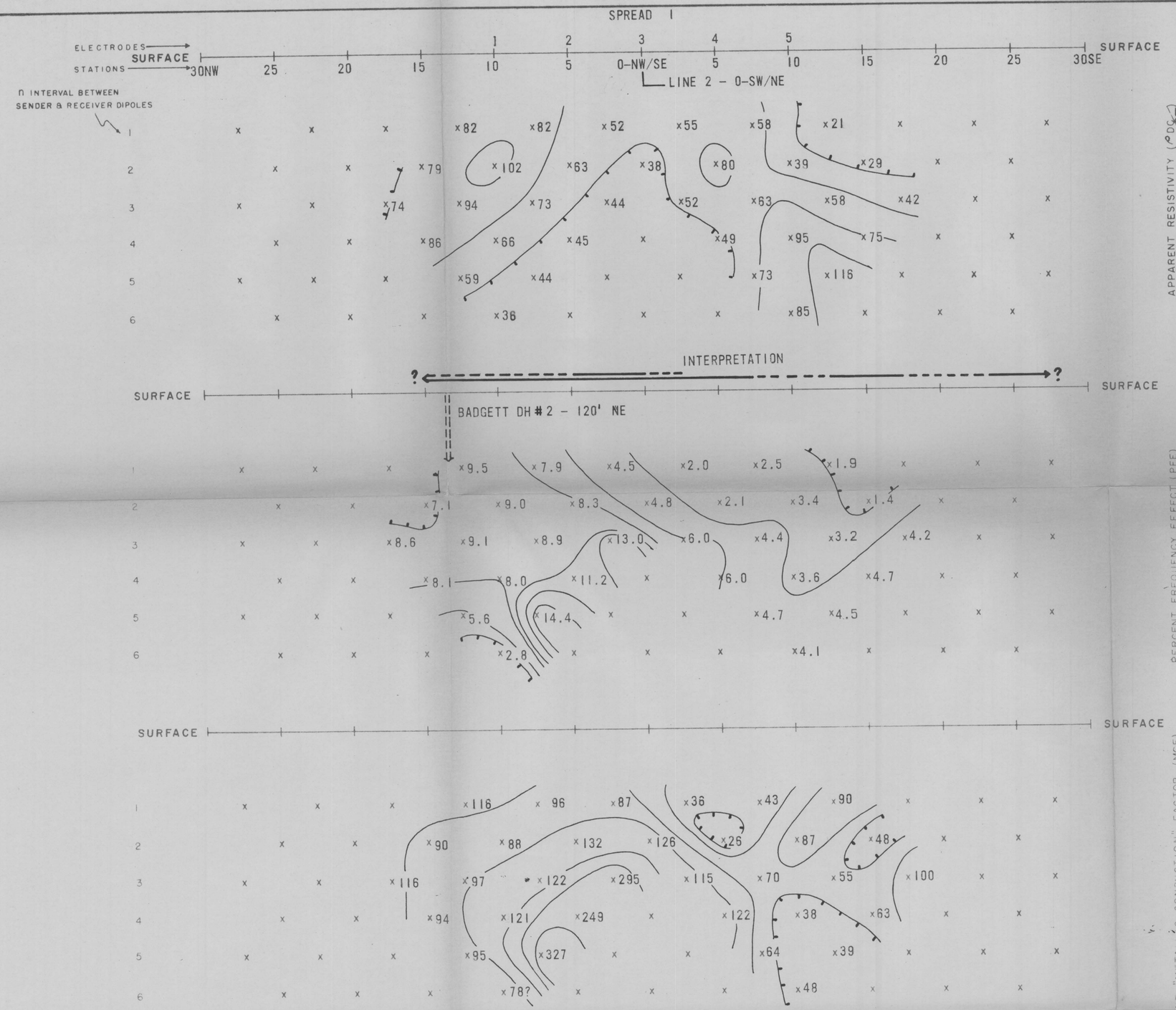
HEINRICHS GEOEXPLORATION COMPANY

SCALE: 1" = 500' DATE: JUL 1968

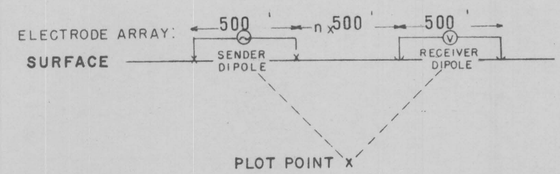
FOR

MR RUSSELL BADGETT JR.

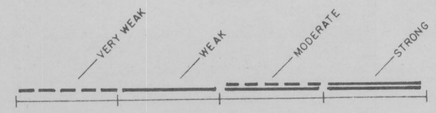
HEINRICHS
GEOEXPLORATION COMPANY
POST OFFICE BOX 5671, TUCSON, ARIZONA, 85703
Phone: 602/623-0578 Cable: GEOEX, Tucson
geophysical engineers
vancouver
sydney




## EXPLANATION




RELATIVE ANOMALY STRENGTH




LOOKING N 35° E

RIPSEY AREA

SECTIONAL DATA SHEET

LINE NO. 5 (SPREAD I)

INDUCED POLARIZATION TRAVERSE

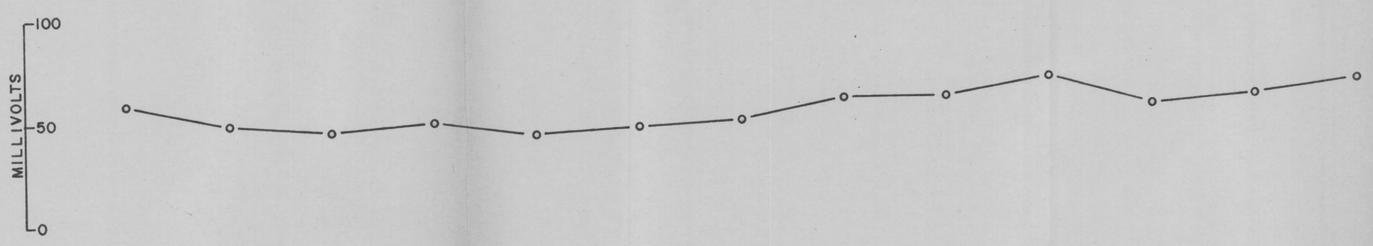
HEINRICHS GEOEXPLORATION COMPANY

SCALE: 1" = 500' DATE: MAY 1968

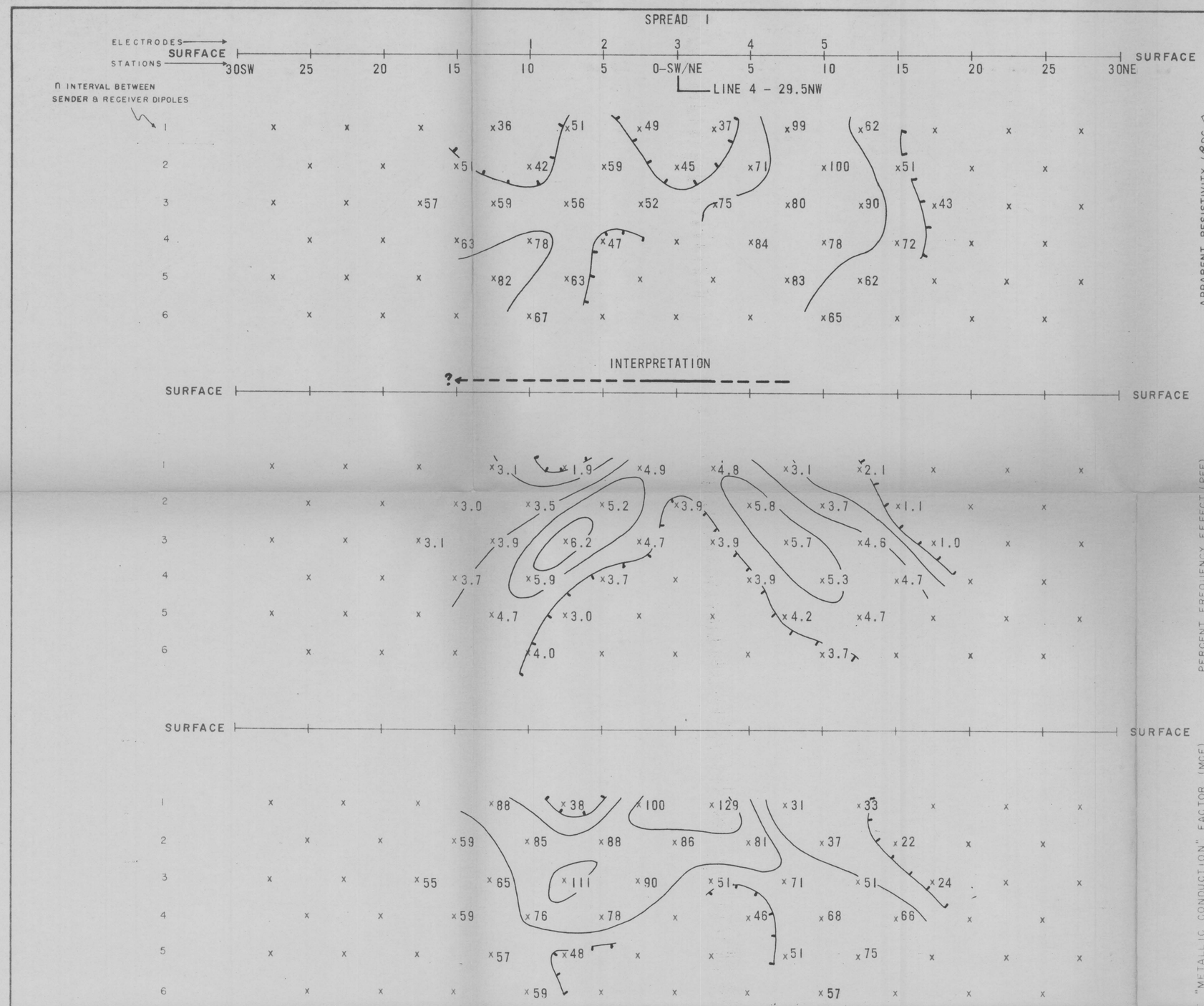
FOR

MR RUSSELL BADGETT JR.

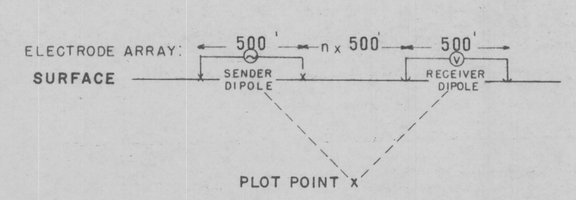
SELF POTENTIAL



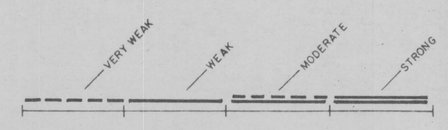

HEINRICHS GEOEXPLORATION COMPANY
POST OFFICE BOX 5671, TUCSON, ARIZONA, 85703
Phone: 602/623-0578 Cable: GEOEX, Tucson
geophysical engineers
vancouver
sydney




## EXPLANATION




RELATIVE ANOMALY STRENGTH




LOOKING N 53° W

RIPSEY AREA

SECTIONAL DATA SHEET

LINE NO. 6 (SPREAD 1)

INDUCED POLARIZATION TRAVERSE

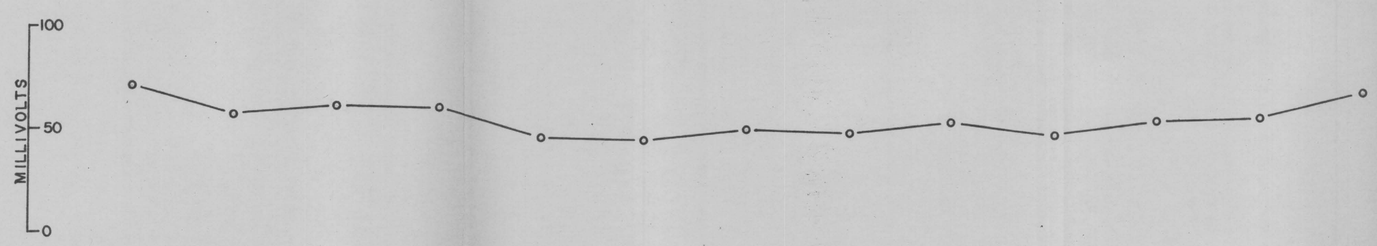
HEINRICHS GEOEXPLORATION COMPANY

SCALE: 1" = 500' DATE: JUL 1968

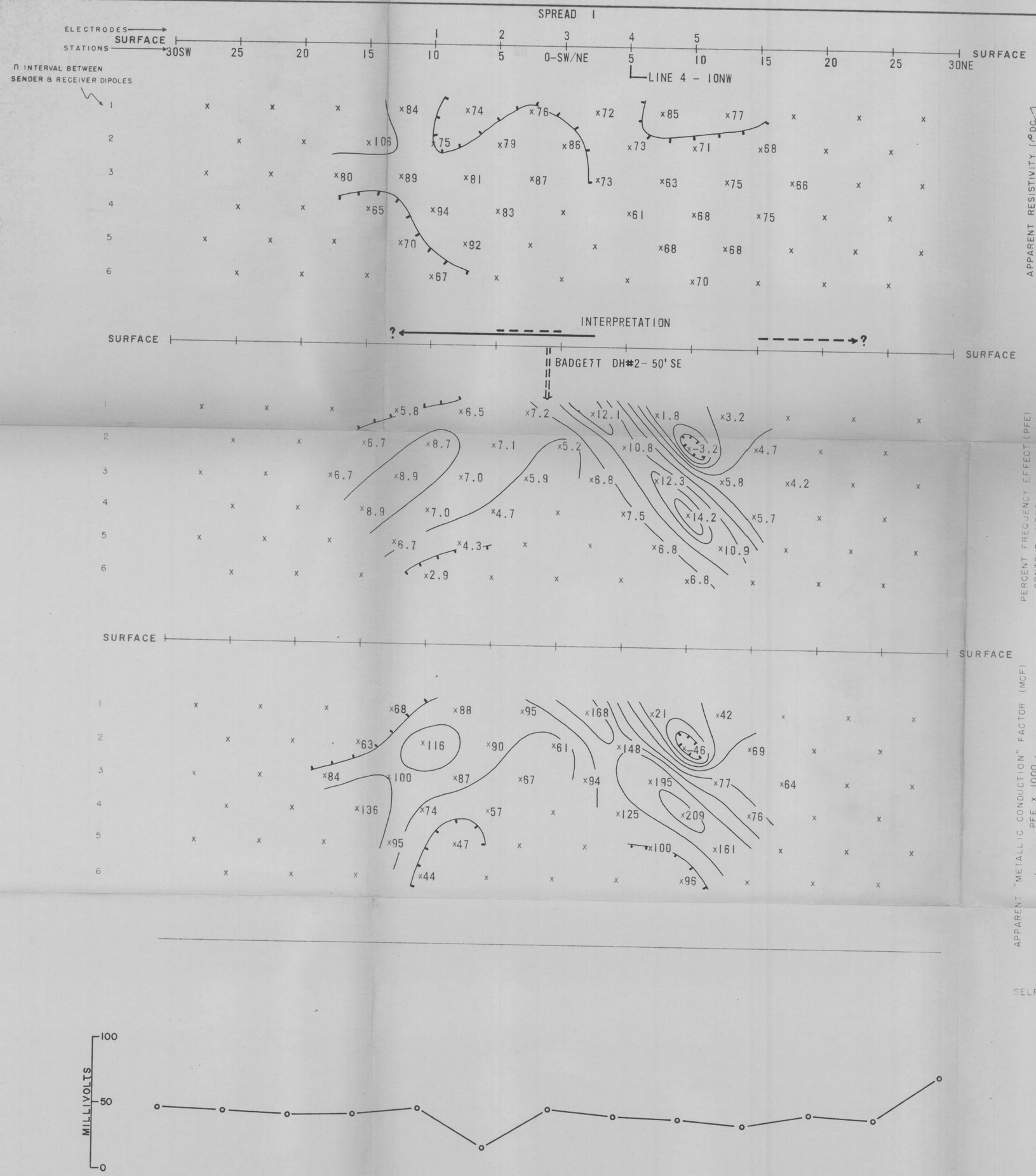
FOR

MR RUSSELL BADGETT JR.

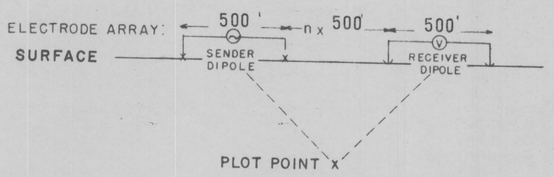
SELF POTENTIAL



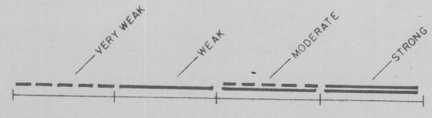

HEINRICHS
GEOEXPLORATION COMPANY
POST OFFICE BOX 5671, TUCSON, ARIZONA, 85703
Phone: 602/623-0578 Cable: GEOEX, Tucson
geophysical engineers
vancouver
sydney




## EXPLANATION




RELATIVE ANOMALY STRENGTH




LOOKING N 53° W

RIPSEY AREA

SECTIONAL DATA SHEET

LINE NO. 7 (SPREAD 1)

INDUCED POLARIZATION TRAVERSE

HEINRICHS GEOEXPLORATION COMPANY

SCALE: 1" = 500' DATE: JUL 1968

FOR

MR RUSSELL BADGETT JR.

SELF POTENTIAL

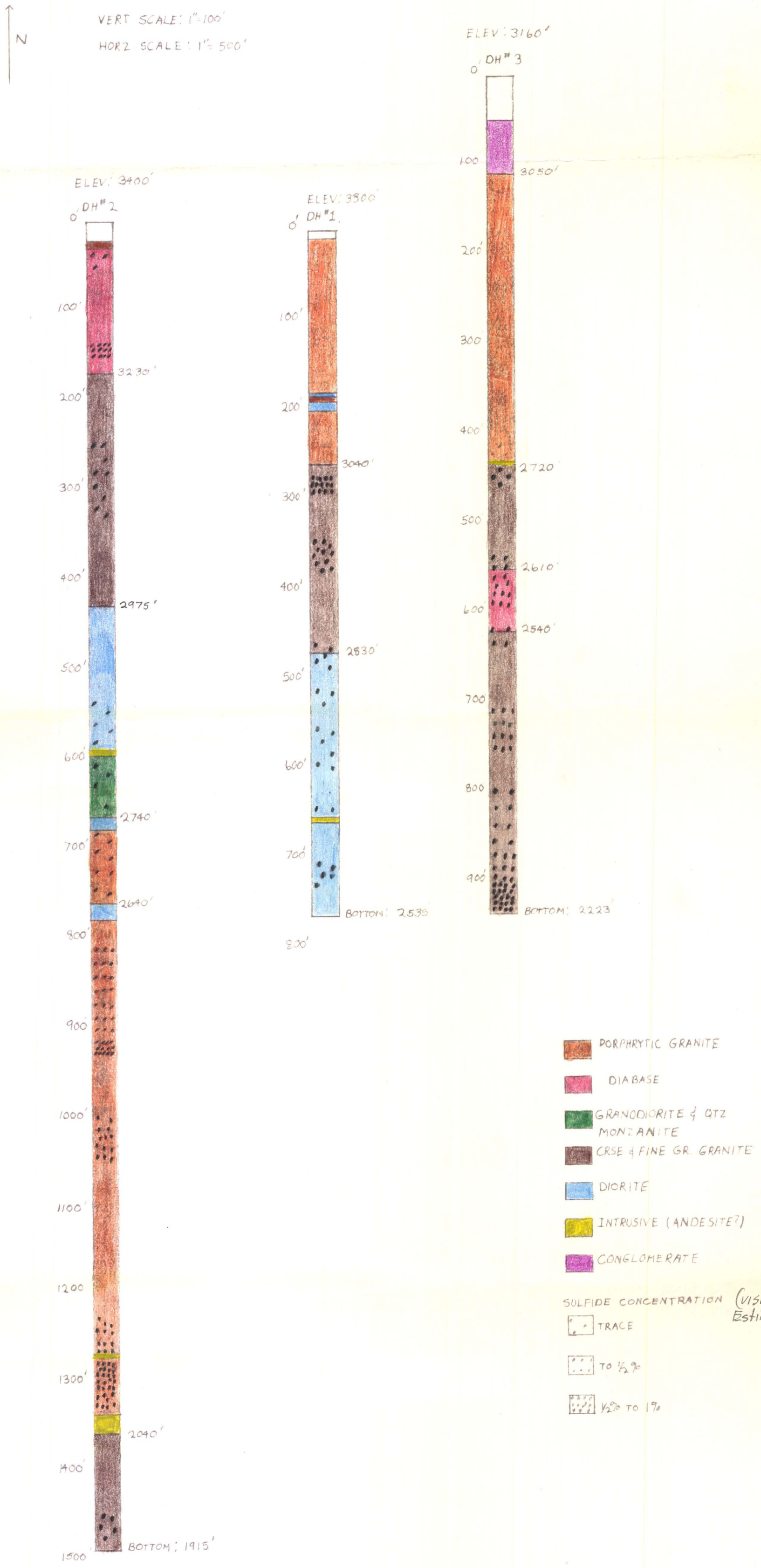



HEINRICHS
GEOEXPLORATION COMPANY
POST OFFICE BOX 5671, TUCSON, ARIZONA, 85703
Phone: 602/623-0578 Cable: GEOEX, Tucson
geophysical engineers
vancouver
sydney

# BADGETT - RIPSEY

## DIAMOND DRILL HOLES

PINAL COUNTY - ARIZONA
KEARNY QUAD
T. 5 S. R. 13 E S. ½ SEC. 11





HEINRICHS
GEOEXPLORATION COMPANY
POST OFFICE BOX 5671, TUCSON, ARIZONA, 85703
Phone: 602/623-0578
Cable: GEOEX, Tucson
vancouver
sydney
geophysical engineers

Badgett - Ripsey
262 - 68

1

HOLE 262 - 1
FROM 0 - 80'
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION Vert. DEPTH
STARTED 24 June 68 COMPLETED

Vert. Scale 1" = 10'

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOVERED | CORE ASSAYS SECTION | CORE ASSAYS CU. | SLUDGE ASSAYS SECTION | SLUDGE ASSAYS CU. |
|---|---|---|---|---|---|---|---|---|
| | | 0 | | | | | | |
| | | 0-10' - Rock bit - set collor pipe no core, no sludge samples recovered | | No Core | | | | |
| | | 10' | | | | | | |
| | | 13' Reddish-maroon to gray porphyritic granite. gray rock appears bleached reddish is iron staining apparently | | 90% | | | | |
| | | Numerous fractures 45°-65°, some vertical, fracture planes coated with talcy material - Some feldspars | | 85% | | | | |
| | | 20 in rock appears to be same material. most fractures show bleaching & | | 10% | | | | |
| | | in crease in qtz. in walls 1/8 to 3/8 inch wide. | | 100% | | | | |
| | | 30 Mod. alteration; best recovery in bleached bands usually | | 100% | | | | |
| | | Minor micaeceous minerals seen | | 100% | | | | |
| | | Purple spots appear to be reaction with grease blobs. | | 100% | | | | |
| | | 40 26.5 - 28.0 loose & broken, strong red color | | 100% | | | | |
| | | 42.5 - 43 - loose & broken | | 100% | | | | |
| | | 49.0 - 53.0 - very loose, reddish | | 40% | | | | |
| | | 50 | | 60% | | | | |
| | | | | 100% | | | | |
| | | 60 59.0 - 60.0 very loose | | 50% | | | | |
| | | | | 100% | | | | |
| | | 70 | | 70% | | | | |
| | | 74-79 broken & bleached | | 30% | | | | |
| | | | | 90% | | | | |
| | | 80' | | 100 | | | | |

# Badgett - Ripsey

HOLE 262-1
FROM 80' - 160
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION Vert. DEPTH
STARTED 24 June 68 COMPLETED

Vert. scale 1" = 10'

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOVERED | CORE ASSAYS SECTION | CORE ASSAYS CU. | SLUDGE ASSAYS SECTION | SLUDGE ASSAYS CU. |
|---|---|---|---|---|---|---|---|---|
| | | 80' ~~Same as~~ Similar to rock → 10 - 80' | | 100% | | | | |
| | | 81 - 99 - bleached strong fracture @ 97.0 & 98.0 to 98.5 - Fe Ox & Mn Ox in fracture | | 100% | | | | |
| | | 90 | | 100% | | | | |
| | | | | 100% | | | | |
| | | 100 | | 100% | | | | |
| | | | | 100% | | | | |
| | | 110 | | 100% | | | | |
| | | | | 100% | | | | |
| | | 120 | | 100% | | | | |
| | | | | 100% | | | | |
| | | 130 | | 60% | | | | |
| | | ← Fe & Mn oxides in fractured & weak rock | | 70% | | | | |
| | | 140 | | 30% | | | | |
| | | | | 50% | | | | |
| | | ← increase in Biotite | | | | | | |
| | | 150 | | 100% | | | | |
| | | ← 155-156 - strong alt. - red brown clayey prob. fracture | | 90% | | | | |
| | | ← 158 - gouge | | | | | | |
| | | 160' | | | | | | |

# Badgett - Ripsey

HOLE 262-1
FROM
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION Vert DEPTH
STARTED 24 June 68 COMPLETED

Vert. Scale 1" = 10'

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOVERED | CORE ASSAYS SECTION | CORE ASSAYS CU. | SLUDGE ASSAYS SECTION | SLUDGE ASSAYS CU. |
|---|---|---|---|---|---|---|---|---|
| | | 160 | | | | | | |
| | | | | 100% | | | | |
| | | | | 100% | | | | |
| X | | 170 169.8 to 174.5 - strong alt. FeOx & MnOx in fractures | | 100% | | | | |
| | | 177.5 - 184 " | | 90% | | | | |
| | | 180 | | 90% | | | | |
| | | 184 - 185 alt diabase (?) | | 90% | | | | |
| | | 185 - 191.7 porph. alt. | | 90% | | | | |
| | | 190 | | 100% | | | | |
| | | 191.7 - 200.5 ± alt diabase (?) | | 100% | | | | |
| | | 196 strong FeOx & MnOx in fractures | | 100% | | | | |
| | | 199 - 200 " | | 100% | | | | |
| | | 200 sericite | | | | | | |
| | | 200.5 - 209 - mod. alt. granitic porph numerous small fractures | | 100% | | | | |
| | | 209 - 213 - gouge - strong fracturing | | 100 | | | | |
| | | 210 fine grain granite | | | | | | |
| | | 213 - 258.5 - similar fine grained granite | | 100 | | | | |
| | | 214 - very small speck malachite | | 100 | | | | |
| | | 220 | | 100 | | | | |
| | | | | 100 | | | | |
| | | 227 - slicken sides in gouge | | 100 | | | | |
| | | 230 Cu limonite ½" stringer - relief limonite | | 100 | | | | |
| | | 234.5 soft yellow-green (serpentine (?)) in fractures | | 100 | | | | |
| | | 240 | | 100 | | | | |

Badgett - Ripsey

HOLE 262-1
FROM 240 - 320'
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION Vert DEPTH
STARTED 24 June 68 COMPLETED

vert scale 1" = 10'

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOVERED | CORE ASSAYS SECTION | CU. | Au | Ag | Mo | SLUDGE ASSAYS SECTION | CU. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 240 | | | | | | | | | |
| | | | | 100% | | | | | | | |
| | | | | 100% | | | | | | | |
| | | 250 | | 100% | | | | | | | |
| | | ← increase alt diabase | | 100% | | | | | | | |
| | | ← contact 258.5-265 | | 100% | | | | | | | |
| | | 260 Crse grain granite - silica very prominent - orth. looks fresh | | 100% | | | | | | | |
| | | 265-266 - strong alt - maroon | | 100% | | | | | | | |
| | | 266.5-269 - mod to strong alt - more qtz. sericite common in most alt. bands | | 100% | | | | | | | |
| | | 270 (orth - fresher, Plag alt - much Qtz) | | 100% | | | | | | | |
| | | ← 276-278.5 vert fracture - FeOx | | 100% | | | | | | | |
| | | ← 278.5-279 - x fracture - Py with black stain | | 100% | | | | | | | |
| | | 280 | | | | | | | | | |
| | | ← 286½-287 - strong Py in fracture | | | | | | | | | |
| | | 290 290-296½ - Red hematite in fractures Py in rock - black stain | | 100% | | 0.12 | 0.005 | 0.35 | 0.002 | | |
| | | 300 | | 100% | | | | | | | |
| | | ← 306.5-339 - strong vert. fracture MnOx & FeOx in frac. no sulfides | | 100% | | | | | | | |
| | | 310 | | 100% | | | | | | | |
| | | 320 | | | | | | | | | |

Bodgett - Ripsey
262-68



HOLE 262-1
FROM 320 - 400
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION Vert DEPTH
STARTED 24 June 68 COMPLETED

Vert. scale 1" = 10'

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOV'D | CORE ASSAYS SECTION | CU. | | | | | SLUDGE ASSAYS SECTION | CU. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 320 | | | | | | | | | | | | | | |
| | | 306.5-339 — similar sheet 5 | | 100% | | | | | | | | | | | | |
| | | 330 | | 100% | | | | | | | | | | | | |
| | | 340 | | 100% | | | | | | | | | | | | |
| | | 350 6" streak py - Green ferrous stain | | 100% | | 0.15 | Tr | 0.30 | 0.003 | | | | | | | |
| | | 357.9 to 367.0 py & black stain | | | | | | | | | | | | | | |
| | | 360 | | 100% | | 0.04 | Tr | 0.15 | 0.003 | | | | | | | |
| | | 370 | | 100% | | | | | | | | | | | | |
| | | 375-377.5 - py & chalcocite | | | | | | | | | | | | | | |
| | | 377.5 - 379 - Green & Red Fe stain | | | | 0.06 | 0.005 | 0.20 | 0.002 | | | | | | | |
| | | 380 strong qtz (40%±) plag - alt orth - pink & fresh | | 100% | | | | | | | | | | | | |
| | | 390 | | 100% | | | | | | | | | | | | |
| | | 393.9 to 396 - vert frac. FeOx & MnOx | | | | | | | | | | | | | | |
| | | 400 | | 100% | | | | | | | | | | | | |

Badgett - Ripsey

HOLE 262-1
FROM 400 - 480
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION Vert DEPTH
STARTED 24 June 68 COMPLETED

Vert. Scale 1" = 10'

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOV-D | CORE ASSAYS SECTION | CORE ASSAYS CU. | SLUDGE ASSAYS SECTION | SLUDGE ASSAYS CU. |
|---|---|---|---|---|---|---|---|---|
| | | 400 | | | | | | |
| | | Similar to above crse grained granitic rock - plag-alt, orth, fresher to 20% qtz | | | | | | |
| | | 410 numerous fractures many vertical, most @ about 30°-45° angle | | | | | | |
| | | Fe Ox in fractures | | | | | | |
| | | 420 | | | | | | |
| | | 430 | | 100% | | | | |
| | | 440 | | 80% | | | | |
| | | Fe Ox & Mn Ox in fracture | | 100% | | | | |
| | | 450 | | 100% | | | | |
| | | 450 - 453 - gougy & very broken | | 100% | | | | |
| | | 460 | | 100% | | | | |
| | | 480 Contact - 469 ± ½ foot(?) Fine grain, dark gray, altered rock, possibly alt. diorite, talcy Py in fractures, minor dissemination | | 100% | | | | |
| | | ~~481 - 482 - gougy~~ | | | | | | |
| | | 470 - 474 - Fe stain & reddish color - vert fractures | | 85% | | | | |
| | | 480 gougy | | | | | | |
| | | | | 475 - 490 values next sheet | | | | |

Bodgett Ripsey

HOLE 262-~~60~~ 1

FROM

ELEVATION

COORDINATES N E

DIRECTION

INCLINATION Vert. DEPTH

STARTED 24 June 68 COMPLETED

Vert. Scale 1" = 10'

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOV-D | CORE ASSAYS SECTION | CU. | Au | Ag | Mo | SLUDGE ASSAYS SECTION | CU. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 480 | | | | | | | | | |
| | | fine gr. dk. gray, apparently diorite less talcy alt. with depth fractures not to apparent py in veins, minor dissemination some cpy | | 85% | 475-490 | 0.12 | 0.005 | 0.45 | Tr | | |
| | | 490 | | 100% | | | | | | | |
| | | 500 | | 100% | 500-502 | 0.20 | Tr | 0.05 | Tr | | |
| | | | | | 502-504 | 0.11 | 0.005 | 0.20 | Tr | | |
| | | | | | 504-506 | 0.16 | 0.005 | 0.15 | 0.002 | | |
| | | | | | 506-508 | 0.14 | Tr | 0.05 | Tr | | |
| | | | | | 508-510 | 0.07 | Tr | 0.05 | 0.002 | | |
| | | 510 | | 100% | 510-512 | 0.09 | Tr | 0.10 | Tr | | |
| | | | | | 512-514 | 0.10 | 0.05 | 0.05 | 0.002 | | |
| | | | | | 514-516 | 0.32 | Tr | 0.25 | 0.002 | | |
| | | | | | 516-518 | 0.08 | 0.005 | 0.15 | 0.003 | | |
| | | | | | 518-519 | 0.08 | Tr | 0.10 | Tr | | |
| | | | | | 519-521 | 0.10 | Tr | 0.15 | Tr | | |
| 1 | | 520 py in fracture minor cpy | | 100% | 521-523 | 0.15 | 0.005 | 0.20 | 0.003 | | |
| | | | | | 523-525 | 0.06 | Tr | 0.15 | Tr | | |
| | | | | | 525-526.5 | 0.14 | Tr | 0.15 | Tr | | |
| | | | | | 526.5-528 | 0.05 | Tr | 0.10 | 0.002 | | |
| | | 530 | | 100% | 528-530 | 0.07 | 0.005 | 0.20 | Tr | | |
| | | | | | 530-532 | 0.13 | 0.005 | 0.25 | Tr | | |
| | | | | 100% | 532-534 | 0.07 | Tr | 0.15 | 0.002 | | |
| | | | | | 534-536 | 0.05 | Tr | 0.20 | Tr | | |
| | | 538-539 - cpy in frac | | | 536-538 | 0.06 | Tr | 0.10 | Tr | | |
| | | 540 | | | 538-541 | 0.05 | nil | nil | Tr | | |
| | | | | 100% | 541-545 | 0.06 | nil | nil | Tr | | |
| | | fault(?) py, qtz, gouge w/slickensides alt. mod., rock broken | | | 545-550 | 0.03 | nil | nil | Tr | | |
| | | 550 loose zone (6") (fault?) Note (qtz increasing xtaline py @ frac. intersection - qtz filling ½" | | 100% | 550-555 | 0.007 | nil | nil | 0.008 | | |
| X | | 555 - intersect frac. - 5% py on planes + some cpy | | | 555-560 | 0.07 | nil | nil | 0.003 | | |
| | | 560 | | | | | | | | | |
| | | (SP. Note qtz increasing, fractures show chloritic material at times, more euhedral biotite) | | | | | | | | | |

# Badgett-Ripsey

HOLE 262-1
FROM
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION Vert. DEPTH
STARTED 24 June 68 COMPLETED

Vert Scale 1" = 10'

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOVERED | CORE ASSAYS SECTION | CU. | Au | Ag | MO | SLUDGE ASSAYS SECTION | CU. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 560 | | | | | | | | | |
| | | 567-568.5 - granitic aplite more alt. obvious, strong py in steep fracture | | 100 % | 560-565 | 0.06 | Tr | 0.20 | Tr | | |
| | | | | | 565-568.5 | 0.06 | " | 0.25 | Tr | | |
| | | 570 | | | | | | | | | |
| | | - strong qtz in frac - py oxidized & stain | | 100 % | 568.5-575 | 0.04 | Tr | 0.15 | 0.002 | | |
| 1 | | vert frac | | 100 % | 575-580 | 0.07 | Tr | 0.10 | Tr | | |
| | | 580 | | | | | | | | | |
| | | 584 - ½" aplite streak | | 100 % | 580-585 | 0.06 | Tr | 0.15 | Tr | | |
| | | | | | 585-591 | 0.10 | Tr | 0.20 | Tr | | |
| | | 590 - near vert. fracture - talcy ← Rock broken | | 100 % | 591-596 | 0.09 | Tr | 0.15 | 0.002 | | |
| | | 593-611 - broken gougy, shows possible slickensides - talcy mat'l in fractures alt. fairly intense | | | 596-601 | 0.06 | Tr | 0.20 | Tr | | |
| | | 600 | | | | | | | | | |
| | | harder spot - some cpy | | 100 % | 601-606 | 0.10 | 0.005 | 0.25 | Tr | | |
| | | | | 100 % | 606-611 | 0.11 | Tr | 0.15 | Tr | | |
| | | 610 | | | | | | | | | |
| | | numerous tight fractures | | 100 % | 611-616 | 0.14 | 0.005 | 0.25 | 0.002 | | |
| | | sulfides usually assoc. pink color - may K metasomatism? maybe Fe alt. | | 100 % | 616-621 | 0.07 | Tr | 0.10 | Tr | | |
| | | 620 | | | | | | | | | |
| | | | | 100 % | 621-626 | 0.04 | Tr | 0.15 | Tr | | |
| | | 630 | | 100 % | 626-630 | 0.10 | Tr | 0.15 | Tr | | |
| | | 632-633 - alt. more intense | | | | | | | | | |
| | | 633 fracture - filled & gougy | | 100 % | 630-640 | 0.09 | 0.005 | 0.10 | Tr | | |
| | | 640 cpy in frac | | | | | | | | | |

# Bad-Rip



HOLE 262-1
FROM
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION Vert + DEPTH
STARTED 24 June 68 COMPLETED

Vert scale 1" = 10'

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOV-D | CORE ASSAYS SECTION | CU. | Ag | Au | MO | SLUDGE ASSAYS SECTION | CU. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 640 | | | | | | | | | |
| | | 647 - cross frac's - more alt. appearance | | 100% | 640-645 | 0.15 | 0.10 | 0.005 | Tr | | |
| | | | | | 645-650 | 0.07 | 0.15 | Tr | Tr | | |
| | | 650 | | | | | | | | | |
| | | carbonate frac. filling w/py | | 100% | 650-655.7 | 0.09 | 0.10 | Tr | Tr | | |
| | | 655.7 to 657.3 (alt volcanic - possibly andesite ?) fine grained, Hbl(?) phenocrysts | | | 655.7-657.3 | 0.06 | 0.05 | Tr | 0.002 | | |
| | | 657.3 - back to granodiorite - dioritic rx | | | 657.3-660 | 0.07 | 0.05 | Tr | 0.002 | | |
| 1 | | 660 lighter color, vert. frac, slightly more alt. | | 100% | 660-665 | 0.05 | 0.10 | 0.005 | Tr | | |
| 1 | | 662-663 - vert. frac. talcy covered frac. plane | | | | | | | | | |
| | | 663 → mineralization sparse | | | | | | | | | |
| | | | | 100% | 665-670 | 0.04 | 0.05 | Tr | Tr | | |
| | | 670 | | | | | | | | | |
| | | | | 100% | 670-675 | 0.04 | 0.15 | 0.005 | 0.002 | | |
| | | | | | 675-679 | 0.07 | 0.10 | Tr | 0.002 | | |
| | | 680 | | | | | | | | | |
| 1 | | 681.5 - py in frac. | | ? | 679-684 | 0.03 | | | | | |
| | | | | | 684-689 | 0.04 | | | | | |
| 1 | | 690 6090.2 - moly? spot. - py, cpy in silic. frac. | | No record Prob. 100% | 689-694 | 0.03 | | | | | |
| | | 693 - strong py in frac | | | 694-697 | 0.08 | | | | | |
| 1 | | 698 - slickensides, very strong py | | | | | | | | | |
| 1 | | 700 frac | | | 697-706 | 0.08 | | | | | |
| | | near vert frac - strong py | | | | | | | | | |
| | | 708 cpy in frac (note: fractures more tightly cemented generally) | | | | | | | | | |
| | | 710 | | | 706-714 | 0.07 | | | | | |
| 1 | | Py in frac - talcy - chloritic | | | | | | | | | |
| | | | | | 714-719 | 0.05 | | | | | |
| | | 720 | | | | | | | | | |
| | | strong fracturing | | | | | | | | | |
| | | 723 - strong oxidation for depth | | | | | | | | | |

Bad-Rip



HOLE 262-1
FROM
ELEVATION
COORDINATES N E
DIRECTION
INCLINATION vert DEPTH
STARTED 24 June 68 COMPLETED

vert. Scale 1"=10'

| SECTION | COL | GEOLOGY | SURVEY | % CORE RECOV—D |
|---|---|---|---|---|
| | | 220 | | |
| | | fracuring - oxidation @ 723 | | |
| | | numerous fractures - sulfide % increaco | | |
| | | 230 | | |
| | | 240 | | |
| | | 250 | | |
| | | 260 | | |
| | | Bottom of Hole 765' | | |
| | | 270 | | |
| | | 280 | | |
| | | 290 | | |
| | | 300 | | |

| CORE ASSAYS SECTION | CU. |
|---|---|
| 719-723 | 0.03 |
| 723-728 | 0.05 |
| 728-733 | 0.06 |
| 733-735 | 0.07 |
| 735-740 | 0.03 |
| 740-745 | 0.05 |
| 745-750 | 0.06 |
| 750-755 | 0.04 |
| 755-759 | 0.07 |
| 759-765 | 0.04 |

| SLUDGE ASSAYS SECTION | CU. |
|---|---|
| | |

Form 26 Rev. B

Send in reports in order, with last one at bottom

# JOY MANUFACTURING CO.

**MICHIGAN CITY, INDIANA**

## DAILY DRILL REPORT

Contract Heinricks Geo-X Date 8-3 19 68

Place Florence ariz Drill No. 7967 Type 22

Prospect No. 262-1 Angle of Hole 90

Hours: From 3PM To 11 PM

| | | | | |
|---|---|---|---|---|
| Depth from Surface, end of Shift | 585 | Feet | | Inches |
| Depth from Surface, beginning of Shift | 567 | " | | " |
| Distance Drilled | 18 | " | | " |
| Distance Reamed From | To | | Size | " |
| ___ inch Stand Pipe put in hole | | " | | " |
| ___ size Casing put in hole | | " | | " |

| FROM FEET | FROM IN. | TO FEET | TO IN. | FEET | IN. | MATERIAL | BIT SIZE |
|---|---|---|---|---|---|---|---|
| 567 | | 585 | | 18 | | | BX |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | cleaned mud | |
| | | | | | | tanks | |
| | | | | | | | |

HOURS - DRILLING & BIT CHANGE 8 NUMBER OF RUNS 4

HOURS - MOVING ___ SETTING UP ___ DISMANTLING ___

HOURS - CEMENTING ___ REAMING ___ CASING ___

HOURS - DELAY ___ (Show under remarks) MIXING MUD ___ REPAIRS ___ (Show under remarks)

Total Feet Drilled in Shift 18 Ft. ___ In.

Specify Core Recovered 18 Ft. ___ In.

Remarks:

Runner WILTON WILLIAMSON Hours Worked 8

Helper PHILIP BIDGAIN Hours Worked 8

Foreman ___

NOTE – Each drill operator must prepare his own drill report for time worked even though full crew may work on one shift.

Form 26 Rev. B

Send in reports in order, with last one at bottom

# JOY MANUFACTURING CO.

## MICHIGAN CITY, INDIANA

## DAILY DRILL REPORT

Contract HEINRICHS GEO-X Date 8-5 1968

Place FLORENCE ARIZ Drill No. 7967 Type 22

Prospect No. 262-1 Angle of Hole 90

Hours: From 7 To 3

| | | | | |
|---|---|---|---|---|
| Depth from Surface, end of Shift | 602 | Feet | | Inches |
| Depth from Surface, beginning of Shift | 585 | " | 0 | " |
| Distance Drilled | 17 | " | | " |
| Distance Reamed From ____ To | | Size | | " |
| ____ inch Stand Pipe put in hole | | " | | " |
| ____ size Casing put in hole | | " | | " |

| FROM FEET | FROM IN. | TO FEET | TO IN. | FEET | IN. | MATERIAL | BIT SIZE |
|---|---|---|---|---|---|---|---|
| 585 | | 602 | | 17 | | | BX |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | 4 | - | 50 lb bags mud | |
| | | | | 1 | | Load water | |

HOURS - DRILLING & BIT CHANGE 4 NUMBER OF RUNS 5

HOURS - MOVING ____ SETTING UP ____ DISMANTLING ____

HOURS - CEMENTING ____ REAMING ____ CASING ____

HOURS - DELAY ____ (Show under remarks) MIXING MUD ____ REPAIRS ____ (Show under remarks)

Total Feet Drilled in Shift 17 Ft. 0 In.

Specify Core Recovered 7 Ft. ____ In.

Remarks: Either went back in old at 591 or came old Crop

Runner R. Thompson Hours Worked 8

Helper R. Thompson Hours Worked ____

Foreman ____

NOTE — Each drill operator must prepare his own drill report for time worked even though full crew may work on one shift.

Form 26 Rev. B

Send in reports in order, with last one at bottom

# JOY MANUFACTURING CO.

## MICHIGAN CITY, INDIANA

## DAILY DRILL REPORT

Contract HENRICHS GRAX Date 8-5 19 68

Place FLORENCE ARIZ Drill No. 2162 Type 22

Prospect No. 262-1 Angle of Hole 90

Hours: From 3 PM To 11 PM

| | | | | |
|---|---|---|---|---|
| Depth from Surface, end of Shift | 614 | Feet | | Inches |
| Depth from Surface, beginning of Shift | 602 | " | | " |
| Distance Drilled | | " | | " |
| Distance Reamed From ____ To | | Size | | " |
| ____ inch Stand Pipe put in hole | | " | | " |
| ____ size Casing put in hole | | " | | " |

| FROM FEET | FROM IN. | TO FEET | TO IN. | FEET | IN. | MATERIAL | BIT SIZE |
|---|---|---|---|---|---|---|---|
| 602 | | 614 | | 12 | | | BX |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | 1 SAC R LUMINITE | |
| | | | | | | | |
| | | | | | | | |

HOURS - DRILLING & BIT CHANGE 6 NUMBER OF RUNS 5

HOURS - MOVING ____ SETTING UP ____ DISMANTLING ____

HOURS - CEMENTING ____ REAMING ____ CASING ____

HOURS - DELAY 2 (Show under remarks) MIXING MUD ____ REPAIRS ____ (Show under remarks)

Total Feet Drilled in Shift ____ Ft. ____ In.

Specify Core Recovered ____ Ft. ____ In.

Remarks: CEMENTED HOLE & PULLED RODS. PULLED RODS OUT

Runner WILTON. WILLIAMSON Hours Worked 8

Helper PHILIP BIDGEGAIN Hours Worked 8

Foreman ____

NOTE – Each drill operator must prepare his own drill report for time worked even though full crew may work on one shift.

Form 26 Rev. B

Send in reports in order, with last one at bottom

# JOY MANUFACTURING CO.

## MICHIGAN CITY, INDIANA

## DAILY DRILL REPORT

Contract Heinrichs Geo-X Date 8-6 1968

Place Florence Ariz Drill No. 7967 Type 22

Prospect No. 262-1 Angle of Hole 90

Hours: From 7.00 To 3.00

| | | | | |
|---|---|---|---|---|
| Depth from Surface, end of Shift | 610 | Feet | | Inches |
| Depth from Surface, beginning of Shift | 593 | " | | " |
| Distance Drilled | | " | | " |
| Distance Reamed From ____ To | | Size | | " |
| ____ inch Stand Pipe put in hole | | " | | " |
| ____ size Casing put in hole | | " | | " |

| FROM FEET | FROM IN. | TO FEET | TO IN. | FEET | IN. | MATERIAL | BIT SIZE |
|---|---|---|---|---|---|---|---|
| 593 | | 610 | | | | Cave | |
| | | | | | | | |
| Washed out 30 ft of Cement | | | | | | | |
| 450 to 480 | | | | | | | |
| | | | | | | | |
| | | | | 2 | | 50 lb bags mud | |
| | | | | 1 | | Load Water | |

HOURS - DRILLING & BIT CHANGE ____ NUMBER OF RUNS 5

HOURS - MOVING ____ SETTING UP ____ DISMANTLING ____

HOURS - CEMENTING ____ REAMING ____ CASING ____

HOURS - DELAY ____ (Show under remarks) MIXING MUD ____ REPAIRS ____ (Show under remarks)

Total Feet Drilled in Shift 13 Ft. ____ In.

Specify Core Recovered ____ Ft. ____ In.

Remarks: drill out Cave to Cement again, Cement in hole from night before 150 ft off Bottom

Runner P. Thompson Hours Worked 8

Helper R. Thompson Hours Worked 8

Foreman ____

NOTE — Each drill operator must prepare his own drill report for time worked even though full crew may work on one shift.

Form 26 Rev. B

Send in reports in order, with last one at bottom

# JOY MANUFACTURING CO.

## MICHIGAN CITY, INDIANA

## DAILY DRILL REPORT

Contract Heinrich Geo A Date 5-6 19 68

Place Florence Ariz Drill No. 7967 Type 22

Prospect No. 262-1 Angle of Hole 90°

Hours: From 3PM To 7PM

Depth from Surface, end of Shift _____ Feet _____ Inches

Depth from Surface, beginning of Shift _____ " _____ "

Distance Drilled _____ " _____ "

Distance Reamed From _____ To _____ Size _____ "

____ inch Stand Pipe put in hole _____ " _____ "

____ size Casing put in hole _____ " _____ "

| FROM FEET | FROM IN. | TO FEET | TO IN. | FEET | IN. | MATERIAL | BIT SIZE |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | 1 BAG PORTLAND | |
| | | | | | | | |

HOURS - DRILLING & BIT CHANGE _____ NUMBER OF RUNS _____

HOURS - MOVING _____ SETTING UP _____ DISMANTLING _____

HOURS - CEMENTING 4 REAMING _____ CASING _____

HOURS - DELAY _____ (Show under remarks) MIXING MUD _____ REPAIRS _____ (Show under remarks)

Total Feet Drilled in Shift _____ Ft. _____ In.

Specify Core Recovered _____ Ft. _____ In.

Remarks: CEMENTED & PULLED RODS

Runner Wilton Williamson Hours Worked 4

Helper Philp Bidgian Hours Worked 4

Foreman _____

NOTE – Each drill operator must prepare his own drill report for time worked even though full crew may work on one shift.

Form 26 Rev. B

Send in reports in order, with last one at bottom

# JOY MANUFACTURING CO.

## MICHIGAN CITY, INDIANA

## DAILY DRILL REPORT

Contract Heinrichs Geo-X Date 8-7 1968

Place Florence Ariz Drill No. 7969 Type 22

Prospect No. 262-1 Angle of Hole 90

Hours: From 7 am To 3 pm

| | | | | |
|---|---|---|---|---|
| Depth from Surface, end of Shift | 606 | Feet | | Inches |
| Depth from Surface, beginning of Shift | 593 | " | | " |
| Distance Drilled | 13 | " | | " |
| Distance Reamed From ____ To | | Size | | " |
| ____ inch Stand Pipe put in hole | | " | | " |
| ____ size Casing put in hole | | " | | " |

| FROM FEET | FROM IN. | TO FEET | TO IN. | FEET | IN. | MATERIAL | BIT SIZE |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Cement all went out in | | | | | | | |
| Cave and broken ground | | | | | | | |
| | | | | | | | |

HOURS - DRILLING & BIT CHANGE ____ NUMBER OF RUNS 4

HOURS - MOVING ____ SETTING UP ____ DISMANTLING ____

HOURS - CEMENTING ____ REAMING ____ CASING ____

HOURS - DELAY ____ (Show under remarks) MIXING MUD ____ REPAIRS ____ (Show under remarks)

Total Feet Drilled in Shift ____ Ft. ____ In.

Specify Core Recovered ____ Ft. ____ In.

Remarks: Put rods in hole, drill Cave from 593 to 606. Cave Cut Core barrel into loss cut, shell & Barrel

Runner P. Thompson Hours Worked 8

Helper R. Thompson Hours Worked 8

Foreman ____

NOTE — Each drill operator must prepare his own drill report for time worked even though full crew may work on one shift.

Form 26 Rev. B

Send in reports in order, with last one at bottom

# JOY MANUFACTURING CO.

## MICHIGAN CITY, INDIANA

## DAILY DRILL REPORT

Contract [illegible] Date 8-7 19 68

Place [illegible] Drill No. [illegible] Type [illegible]

Prospect No. [illegible] Angle of Hole [illegible]

Hours: From [illegible] To [illegible]

| | | | | |
|---|---|---|---|---|
| Depth from Surface, end of Shift | | Feet | | Inches |
| Depth from Surface, beginning of Shift | | " | | " |
| Distance Drilled | | " | | " |
| Distance Reamed From _____ To | | Size | | " |
| ____ inch Stand Pipe put in hole | | " | | " |
| ____ size Casing put in hole | | " | | " |

| FROM FEET | FROM IN. | TO FEET | TO IN. | FEET | IN. | MATERIAL | BIT SIZE |
|---|---|---|---|---|---|---|---|
| | | | | | | Pumped tube down twice. | |
| | | | | | | Chased tub | |
| | | | | | | down with | |
| | | | | | | overshot but | |
| | | | | | | tube wouldn't | |
| | | | | | | latch. | |
| | | | | | | (1) Load of water | |

HOURS - DRILLING & BIT CHANGE _____ NUMBER OF RUNS _____

HOURS - MOVING _____ SETTING UP _____ DISMANTLING _____

HOURS - CEMENTING _____ REAMING _____ CASING _____

HOURS - DELAY _____ (Show under remarks) MIXING MUD _____ REPAIRS _____ (Show under remarks)

Total Feet Drilled in Shift _____ Ft. _____ In.

Specify Core Recovered _____ Ft. _____ In.

Remarks: Pulled Rods out and outer barrel was cut off right at landing ring. went to [illegible], was tied to [illegible] back and [illegible] [illegible] [illegible] [illegible]

Runner [illegible] Hours Worked 8

Helper [illegible] Hours Worked 8

Foreman _____

NOTE — Each drill operator must prepare his own drill report for time worked even though full crew may work on one shift.

Form 26 Rev. B

Send in reports in order, with last one at bottom

# JOY MANUFACTURING CO.

## MICHIGAN CITY, INDIANA

## DAILY DRILL REPORT

Contract HEINRICHS GEO-X Date 8-8 19 68

Place FLORANCE ARIZ Drill No. 7967 Type 22

Prospect No. 262-1 Angle of Hole 90

Hours: From 7 am To 3 PM

Depth from Surface, end of Shift _____ Feet _____ Inches

Depth from Surface, beginning of Shift _____ " _____ "

Distance Drilled _____ " _____ "

Distance Reamed From _____ To _____ Size _____ "

____ inch Stand Pipe put in hole _____ " _____ "

____ size Casing put in hole _____ " _____ "

| FROM FEET | FROM IN. | TO FEET | TO IN. | FEET | IN. | MATERIAL | BIT SIZE |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

HOURS - DRILLING & BIT CHANGE _____ NUMBER OF RUNS _____

HOURS - MOVING _____ SETTING UP _____ DISMANTLING _____

HOURS - CEMENTING _____ REAMING _____ CASING 8

HOURS - DELAY _____ (Show under remarks) MIXING MUD _____ REPAIRS _____ (Show under remarks)

Total Feet Drilled in Shift _____ Ft. _____ In.

Specify Core Recovered _____ Ft. _____ In.

Remarks: 8 HRS TRYING TO GET B CASING OUT. STUCK REAL TIGHT. BACKED OFF 110 FT.

Runner P THOMPSON Hours Worked 8

Helper R. THOMPSON Hours Worked 8

Foreman _____

NOTE – Each drill operator must prepare his own drill report for time worked even though full crew may work on one shift.

Form 26 Rev. B

Send in reports in order, with last one at bottom

# JOY MANUFACTURING CO.

## MICHIGAN CITY, INDIANA

## DAILY DRILL REPORT

Contract Heinrichs Geo-X Date 8-9 1968

Place Florence Ariz Drill No. 7967 Type 22

Prospect No. 262-1 Angle of Hole 90

Hours: From 7 am To 3 pm

Depth from Surface, end of Shift _____ Feet _____ Inches

Depth from Surface, beginning of Shift _____ " _____ "

Distance Drilled _____ " _____ "

Distance Reamed From _____ To _____ Size _____ "

____ inch Stand Pipe put in hole _____ " _____ "

____ size Casing put in hole _____ " _____ "

| FROM | | TO | | | | MATERIAL | BIT SIZE |
|---|---|---|---|---|---|---|---|
| FEET | IN. | FEET | IN. | FEET | IN. | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

HOURS - DRILLING & BIT CHANGE _____ NUMBER OF RUNS _____

HOURS - MOVING _____ SETTING UP _____ DISMANTLING _____

HOURS - CEMENTING _____ REAMING _____ CASING 8

HOURS - DELAY _____ (Show under remarks) MIXING MUD _____ REPAIRS _____ (Show under remarks)

Total Feet Drilled in Shift _____ Ft. _____ In.

Specify Core Recovered _____ Ft. _____ In.

Remarks: 8 hrs Cracking out Casing With left hand Rods.

Welton Williamson 8

Runner P. Thompson Hours Worked 8

Helper R. Thompson Hours Worked 8

Foreman _____

NOTE – Each drill operator must prepare his own drill report for time worked even though full crew may work on one shift.

Form 26 Rev. B

Send in reports in order, with last one at bottom

# JOY MANUFACTURING CO.

## MICHIGAN CITY, INDIANA

## DAILY DRILL REPORT

Contract Heinrichs Geo-X Date 8-10 1968

Place Florence Ariz Drill No. 7967 Type 22

Prospect No. 262-1 Angle of Hole 90

Hours: From 7 am To 3, pm

Depth from Surface, end of Shift _____ Feet _____ Inches

Depth from Surface, beginning of Shift _____ " _____ "

Distance Drilled _____ " _____ "

Distance Reamed From _____ To _____ Size _____ "

____ inch Stand Pipe put in hole _____ " _____ "

____ size Casing put in hole _____ " _____ "

| FROM | | TO | | | | MATERIAL | BIT SIZE |
|---|---|---|---|---|---|---|---|
| FEET | IN. | FEET | IN. | FEET | IN. | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

HOURS - DRILLING & BIT CHANGE _____ NUMBER OF RUNS _____

HOURS - MOVING 2 SETTING UP 3 DISMANTLING 3

HOURS - CEMENTING _____ REAMING _____ CASING _____

HOURS - DELAY _____ (Show under remarks) MIXING MUD _____ REPAIRS _____ (Show under remarks)

Total Feet Drilled in Shift _____ Ft. _____ In.

Specify Core Recovered _____ Ft. _____ In.

Remarks: had to dig tank down

Wilton Williamson 8

Runner R. Thompson Hours Worked 8

Helper R. Thompson Hours Worked 8

Foreman _____

NOTE – Each drill operator must prepare his own drill report for time worked even though full crew may work on one shift.

File Budgett

PAGE

HEINRICHS GEOEXPLORATION CO.
I.P. RECEIVER NOTES

PROJECT Ripsey RBJ
LINE ____ HALF ____ SP. ____ DATE ____

| | SPLIT 16 | SPLIT 17 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SEND | 516? | 582? | | 623 | | | | | CAL 16th | CAL 17th |
| RECEIVE | 0.01 10 | 0.01 10 | | 50 | | | | | | |
| RANGE | | | | | | | | | | |
| DC 1 | 4.9 | 0.1 | | 8.2 | | | | | | |
| DC 2 | 5.4 | 4.0 | | 8.8 | | | | | | |
| DC 3 | 4.9 | 0.3 | | 7.8 | | | | | | |
| DC 4 | 6.3 | 4.3 | | 9.0 | | | | | | |
| DC 5 | 5.4 | 0.9 | | | | | | | | |
| DC 6 | | 5.0 | | | | | | | | |
| DC 7 | | | | | | | | | | |
| DC 8 | | | | | | | | | | |
| DC AVG. | 5.14 (4.1) | 2.41 (1.8) | | 8.8 | | | | | -0.1 | -0.3 |
| AC 1 | 157.5 | 411 | | 2330 | | | | | | |
| AC 2 | +2.9 | +1.4 | | -0.1 | | | | | | |
| AC AVG | 4.6 | 3.7 | | 4.6 | | | | | | |
| S.P. | 1.95 | 1.98 | | 2.00 | | | | | | |
| AC NOISE | 203 20 | 680 3 | | 633 14 | | | | | | |
| POT RES. | 63K | 40K | | 38K | | | | | | |

TONTO NATIONAL FOREST
IRON MOUNTAIN
Rogers Spring
Kennedy Ranch
C C C Camp (ruins)
Tailings pile
Tailings pond
Miami
Globe
Little Acres
HACKBERRY BUTTE
GRANITE POINT
Pinal Ranch
Simpson Ranch
Gibson Mine
America Mine (copper)
Lorane Mine (copper)
Little Ranch
Ellis Ranch
Silver King Mine (copper)
KINGS CROWN PEAK
HUTTON PEAK
Whitford Ranch
Perlite Mine (quarry)
Ruins
Bakers Ranch
Queen
Nunez Ranch
Jeffery Ranch
Superior
mines
Golf course
Apache Leap
PICKETPOST MOUNTAIN
Reymert Mine (silver)
Goat Ranch
Terry Ranch
Woodpecker Mine (silver)
Ajax Mine
Silver
Myres Mine (silver)
Herring Mine (silver)
Sunset Mine (silver)
MINERAL MOUNTAIN
Oklahoma Mine (abandoned)
15 Ranch
Copper Butte Mine
THE SPINE
Gila River
NORTH BUTTE
Cochran
Price
SOUTH BUTTE
GRAYBACK
Windmill
Engle Ranch
Wooley
Kelvin
Erman
Fields Ranch
Ray
Sonora
Tailings pile
Copper
Lynch Ranch
Hagen Ranch
DRIPPING SPRINGS
Troy
Dripping Springs Creek
STONE CABIN MOUNTAIN
PINAL MOUNTAINS
SIGNAL PEAK
PINAL PEAK
Recreation area
Hagen Ranch
Windmill
Ranch
Copper
STEAMBOAT MOUNTAIN
TAM O'SHANTER PEAK
Apex Mine
Young Ranch
Cooley Ranch
Kullman McCool Mine (lead)
GILA COUNTY
PINAL COUNTY
TORTILLA MOUNTAINS
Branaman Ranch
Crescent Ranch
Hayden Junction
Hayden
Tailings pond
Winkelman
RIPSEY HILL
CROZIER PEAK
Pipeline
HORSE HILLS
MALPAIS HILL
ANTELOPE PEAK
4547
COTTONWOOD HILL
Tom Mix Monument
Tom Mix Wash
Brady Wash
Bogard Wash
Durham Wash
BLACK MOUNTAIN
Underground pipeline
Rocky
FORTIFIED PEAK
Suffering Wash
DURHAM HILLS
SUIZO MOUNTAINS
Coronado Wash
ANTELOPE PEAK
3501
THREE BUTTES
Water
CHIEF BUTTE
FALCON DIVIDE
FALCON VALLEY
Power station
DESERT PEAK
2608
OWL HEAD BUTTES
3109
Oracle
ORACLE HILL
Oracle Junction Store
THE CO DONES
Cañada del Oro
Copper
Golden Eagle Mines
Charouleau Gap
Vista Catalina
TORTOUTA MOUNTAINS
Boy Scout Camp
Cottonwood Canyon
Navisita Siding
PINAL CO
PIMA CO
Ranch
Pipeline
Agua
Honey
T 5 5
R 13 E
R 11 E
GEOEX
APR 5 1968
BOX 5671, TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578

Relocated + Renamed as
West Ripsey Group

Box 542
ORACLE, ARIZ

# RIPSEY PROJECT - SALAS FUTURO PROSPECT

## LOCATION

West Ripsey

The Futuro claim group, owned by Mr. Frank F. Salas and his partners contains 76 contiguous claims and is situated in Sections 11, 12, 13, 14, and 15 of T 5 S, R 13 E of Pinal County, Arizona. Complete topographic coverage necessitates assemblage of the Kearny, Grayback, and Crozier Peak quadrangles and an unnamed preliminary sheet available from the USGS office in Menlo Park, California. Small scale aerial photographs of the area are available for inspection in the USGS office located on the campus of the University of Arizona. The area is easily accessible from the Old Florence Road. Unpaved roads in the prospect area are easily passable.

## GENERAL GEOLOGY

W. R.

The country rock of the Futuro area is designated "Precambrian granite" by the Pinal County geologic map. This representation is essentially correct because much of the area is underlain by a coarse, deeply weathered, alkalic granite similar to the Oracle Granite. Within the boundaries of the Futuro prospect, however, one encounters small bodies of quartz porphyry, diabase, andesite, siliceous breccia, and sedimentary conglomerates of Precambrian and Tertiary age.

The principal structure of the area is the Ripsey fault which trends north-south and coincides with Ripsey Wash. Because of the fault, the wash constitutes a zone of intense shearing and brecciation 50-200 feet wide. A great variety of rock types are noted within the fault zone and with the exception of the Gila Conglomerate all have been sheared and brecciated. The conglomerate, however, has escaped intense deformation. The response of this unit to the faulting seems to be little more than simple fracture and tilting. The tilting is observed all along Ripsey Wash and is always easterly 12°-37°. Slight local variations in strike of the Gila Conglomerate are attributed to faults which cross the Ripsey Fault.

Two pipe-like bodies of brecciated material are noted on the east side of Ripsey Wash. The largest and most interesting of these structures is located at the east end of Futuro #69. The outcrop of the brecciated material is roughly elliptical in shape (see map) and may extend northwest across Ripsey Wash. The breccia is noticeably iron stained, the stain consisting principally of hematite. Pyrite and decomposed pyrite were noted in very small quantities but other sulfides appear to be absent. Examination of the breccia, particularly of the breccia margins, suggests that the body has the shape of a flattened cylinder. The "cylinder" appears, in general, to plunge steeply (60°-70°) westward but may rake slightly to the north. It has

been suggested that the breccia body is more tabular than cylindrical in shape and may represent nothing more than brecciation along the Ripsey structure. The slight rounding of many of the breccia fragments, incorporation of foreign rock types, strong silicification, and the lack of parallelism between the long axis of the ellipsoid and the Ripsey fault, however, support the conclusion that the body represents a "breccia pipe" in the usual sense of the word.

The second breccia pipe, also located on the east side of Ripsey Wash (see map), was examined in some detail. This pipe was found to be quite small, unmineralized, and, like its larger counterpart, to plunge steeply.

Several former drill sites were noted on the west side of the larger breccia pipe and an abandoned vertical shaft was found on the east side of the structure. The results of the drilling are unknown but the shaft, although it encountered altered aplitic material with disseminated chalcopyrite and galena, bottomed in a fresh, coarse granite containing very large crystals of orthoclase. Collapsed depth?

## MINE WORKINGS AND DRILL HOLES

The most extensive workings in the area are those of the Old Ripsey Mine located just east of the Futuro claim group. The large dump and abandoned equipment which includes a steam-driven stamp mill and shaker table indicate an operation of sizeable proportions. The main shaft, now caved at about 25 feet, is inclined 49° in a S 18° E direction and was apparently sunk on a chloritized diabase dike in the coarse, granitic country rock.

The Lopez shaft in the southeast $\frac{1}{4}$ of Section 15 is vertical and in good condition. These workings are outside the Futuro claim group but were visited because of their proximity to the Futuro group. It appears that fractures in the coarse, granitic country rock have been mineralized to produce a strongly pyritic-low copper ore which has subsequently been thoroughly oxidized. A sample of fine-grained dump material was found to contain 9,500 ppm Cu and 15 ppm Mo. This analysis appears to be a fair representation of the mineralization encountered in the Lopez shaft.

Due west of the Lopez shaft is a water well, the cuttings of which contained up to 0.5% Cu. The accidental discovery of such copper values generated considerable interest and the well area was examined in an effort to account for the high copper content of the well cuttings. It was found that the well is located along a prominent joint zone which strikes northeast and dips 70° to the southeast. Along the strike of this zone prospect pits have exposed small areas of sheared, altered granite, and spongy, limonitic capping material is quite common. Although alteration of the coarse granite is locally of moderate to high intensity, it is limited to small areas within the joint zone. The strongest mineralization is found in the area immediately

southwest of the well and is seen to dissipate both to the northeast and southwest.

A small shaft near the well was found to have water standing about 50 feet below the surface, It is, therefore, concluded that the well, which is several hundred feet deep, pierced a mineralized, and perhaps enriched, zone, similar to the one encountered in the nearby Lopez shaft and thus provided the copper-bearing well cuttings. It is further concluded that the spongy, limonitic capping material found near the well was formed over highly pyritic ore similar to that found in the Lopez shaft. Alteration of the country rock outside the joint zone is slight to absent and the soil developed over this rock is found to contain only background amounts of Cu and Mo.

The dump of the abandoned West Ripsey Mine in the southeast quarter of Section 14 shows an abundance of the same pyritic material noted in the Lopez shaft and the well area suggesting an east-west control to the pyritic mineralization.

## GEOCHEMICAL INVESTIGATION

In the course of several visits to the Futuro area, forty-odd samples were collected and anlyzed for Cu and Mo. Nearly all of the samples were of the thin soil developed over most of the rocks of the Futuro area but spot checks were made on the accuracy of the soil samples by taking rock chip samples. It was found that Mo values from soil and rock chip samples agreed closely, but that Cu was enriched in the soil by a factor of 50% to 300%. The results of the geochemical samples are shown on the accompanying map and indicate a small but definite anomaly in the area of the Section 11-14 quarter corner. The anomalous area is roughly triangular in shape and extends in taillike fashion north and south along the Ripsey fault. The area in which the soil is found to contain greater than 350 ppm Cu is approximately 2,500 feet long and averages 1,500 feet wide.

The character of the anomaly is generally weak, the highest Cu values being on the order of 400 ppm and the Mo values varying from 1-10 ppm. Background Cu is considered to be on the order of 50 ppm and background Mo appears to be 1 ppm.

## ROCK ALTERATION

The shape of the Ripsey alteration zone (see map) is fairly well defined and may be described as roughly elliptical. The central zone of intense alteration is approximately 300 feet by 400 feet and is surrounded by a broader zone of weaker alteration and iron staining 1,000 feet wide and 1,700 to 2,000 feet long in an east-west direction.

The alteration zone consists principally of three rock types. In order of decreasing prominence these are quartz porphyry, aplitic granite, and coarse Oraclelike granite. Each lithology is seen to grade into the other two suggesting metamorphic effects. The

quartz porphyry itself is probably the result of metamorphism of the coarse granite and/or the aplitic granite. Aplitic zones are, however, common in the coarse, granitic country rock and while they appear to have been modified by metamorphic processes it is hardly logical to attribute their formation to such an event. The most intense alteration observed is sericitic-argillic alteration and it should be noted that this "intense alteration" if compared to known porphyry copper alteration would most accurately be described as "moderate."

The small sericitic-argillic zone gives way to a broader zone of weak argillic alteration and yellow-brown iron staining having the dimensions noted above. Propylitic alteration, if present, was not observed. Deep weathering and base leaching of the coarse, granitic country rock prior to alteration would inhibit formation of of chlorite but should not preclude some expression of a propylitic zone if a tendency existed toward its formation. Unlike the geochemical anomaly, the alteration zone is not observed immediately west of the Ripsey fault nor is strong alteration noted west of the fault.

Copper stains are absent in the alteration zone as they are over most of the Futuro prospect but small isolated occurrences of brown, yellow-brown, and black relief limonite are noted.

INTERPRETATION

The attitudes of sedimentary strata in and about the Futuro prospect indicate tilting of a repetitive nature beginning during or after late Paleozoic time and continuing through mid-Tertiary time. This tilting has served to rotate a block on the west side of the San Pedro Valley through an angle of nearly 90°. The attitude of the Gila Conglomerate (see map) suggests that post-mineral rotation may amount to some 30° of arc. The Gila Conglomerate is likewise useful in estimating the vertical displacement on the Ripsey fault in the Futuro area. The conglomerate is preserved in small patches on the west side of Ripsey Wash in the Futuro area but is absent on the east side. Farther north, of course, it is observed on both sides of the wash. These occurrences of Gila Conglomerate suggest that the west side of the Ripsey fault is the downthrown side and that the vertical displacement is on the order of 200-300 feet.

The strongly pyritic mineralization discussed in connection with the Lopez shaft is noted on both sides of Ripsey Wash and if the east-west control of this mineralization is as specific as it appears, lateral displacement subsequent to pyritic mineralization must have been on the order of several hundred feet.

The parabolic aspect of the Ripsey geochemical anomaly and the vaguely elliptical configuration of the alteration zone suggest that alteration and mineralization assume the shape of a cylinder which plunges westward at 60°-70° and which has been truncated by the Ripsey fault as well as the present erosion surface (see Figure 1).

CONCLUSIONS

There are striking parallels between the features noted in and around the Futuro prospect and those associated with porphyry copper deposits in Southeastern Arizona. The alteration, structure, lithology, and geochemical anomaly all suggest relationship to the porphyry environment. It is to be noted, however, that in comparison to known porphyry copper deposits the alteration and mineralization zones noted during the examination of the Futuro prospect are small and weak. It is my opinion that if the prospect were drilled, a small, very low-grade body of disseminated copper and iron mineralization would be discovered and I do not recommend further work at this time.

Although drilling is not indicated at this time, there are several factors which should be given consideration. Should the circumstances arise when a small, low-grade body of disseminated copper mineralization located in the Ripsey-Futuro area could be exploited at a profit the Futuro prospect should be reevaluated. Similarly, if the weak geochemical anomaly and weak alteration can be shown in some way to be related to strong copper mineralization or if the Ripsey fault can be shown to have significant vertical or lateral displacement the prospect deserves reevaluation.

LCA:h
March 31, 1967

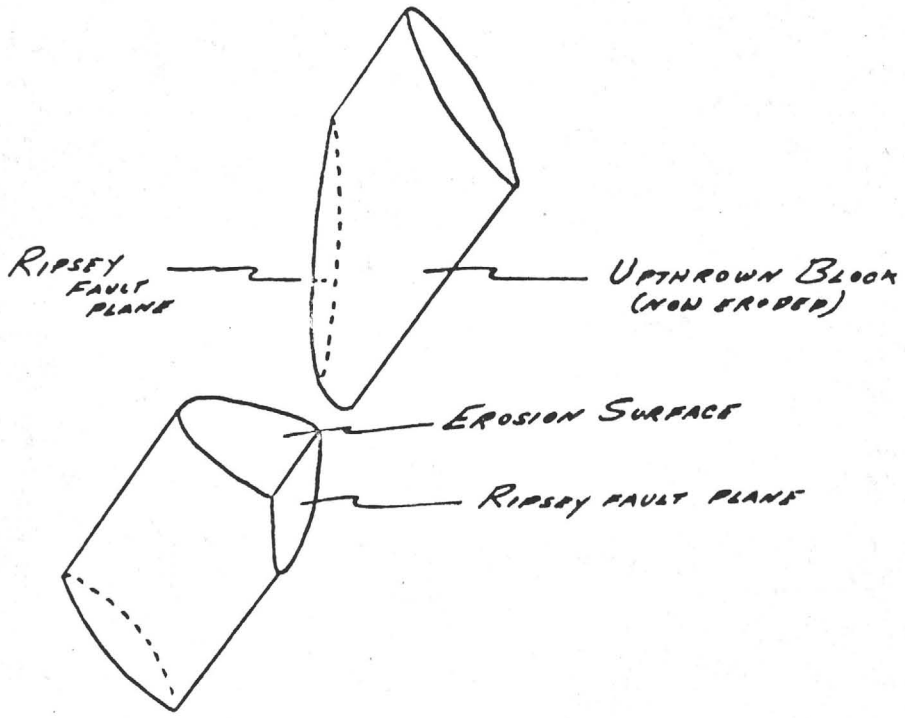



Figure 1. Diagramatic Representation of the Salas Futuro Alteration Zone. Ripsey Fault Strikes N-S. Cylinder Plunges Westward About 65°.

Trace Analysis

Assays

# ROCKY MOUNTAIN GEOCHEMICAL LABORATORIES

519 North Washington Ave.
Phone: 445-4393
PRESCOTT, ARIZONA 86301

## ANALYTICAL REPORT

Date February 8, 1967



Client Mr. J. David Lowell
Consulting Geologist
5215 N. Oracle Rd.
Tucson, Arizona 85704

Report on 13 Soil Samples

Sample Data Sheet of Letter 2-3-67 Submitted by J. D. Lowell Date 2-3-67

Analysis Copper, Molybdenum

Remarks Copper done by Atomic Absorption method.

Molybdenum done by Colorimetric method.

Sample pulps to be returned.

cc: encl. (3 copies)
file

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

13 Soil Samples

| Sample No. | Copper | Molybdenum |
|---|---|---|
| R-1 | 150 | 1 |
| R-2 | 30 | 1 |
| R-3 | 30 | -1 |
| R-4 | 50 | 6 |
| R-5 | 435 | 6 |
| R-6 | 80 | 11 |
| R-7 | 450 | 5 |
| R-8 | 100 | 2 |
| R-9 | 60 | -1 |
| R-10 | 90 | -1 |
| R-11 | 60 | -1 |
| R-12 | 145 | -1 |
| R-13 | 30 | -1 |

E A Johnson

E. A. Johnson

Trace Analysis

Assays

# ROCKY MOUNTAIN GEOCHEMICAL LABORATORIES

519 North Washington Ave.

Phone: 445-4393

PRESCOTT, ARIZONA 86301

## ANALYTICAL REPORT

Date February 28, 1967



Client Mr. J. David Lowell
Consulting Geologist
5215 N. Oracle Road
Tucson, Arizona 85704

Report on 21 Soil & 15 Pulp Samples

Sample Data Sheet of (no letter) Submitted by J. D. Lowell Date 2-25-67

Analysis Copper, Molybdenum

Remarks Copper done by Atomic Absorption method.

Molybdenum done by Colorimetric method.

Sample pulps to be returned.

cc: encl. (3 copies)
file

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

R- Soil Samples

| Sample No. | Copper | Molybdenum |
|---|---|---|
| R-14 | 30 | -1 |
| R-15 | 35 | -1 |
| R-16 | 45 | 1 |
| R-17 | 35 | -1 |
| R-18 | 250 | -1 |
| R-19 | 60 | -1 |
| R-20 | 9500 | 15 |
| R-21 | 800 | 27 |
| R-22 | 70 | -1 |
| R-23 | 100 | 1 |
| R-24 | 90 | -1 |
| R-25 | 100 | 1 |
| R-26 | 100 | -1 |
| R-27 | 120 | 2 |
| R-28 | 70 | -1 |
| R-29 | 55 | -1 |
| R-30 | 65 | 1 |
| R-31 | 375 | 3 |
| R-32 | 110 | 1 |
| R-33 | 30 | -1 |
| R-34 | 65 | -1 |

G- Series Pulp Samples

| Sample No. | Copper | Molybdenum |
|---|---|---|
| G-35 | 65 | -1 |
| G-36 | 230 | -1 |
| G-138 | 160 | 6 |
| G-139 | 115 | 3 |
| G-152 | 330 | 1 |
| G-160 | 120 | 2 |
| G-213 | 115 | -1 |
| G-265 | 425 | 3 |
| G-266 | 70 | 3 |
| G-270 | 300 | -1 |
| G-271 | 60 | -1 |
| G-272 | 210 | -1 |
| G-310 | 240 | -1 |
| G-311 | 115 | -1 |
| G-312 | 25 | -1 |

E A Johnson

E. A. Johnson

Trace Analysis

Assays

# ROCKY MOUNTAIN GEOCHEMICAL LABORATORIES

519 North Washington Ave.
PRESCOTT, ARIZONA 86301
Phone: 445-4393

## ANALYTICAL REPORT

Date March 15, 1967



Client Mr. J. David Lowell
Consulting Geologist
5215 N. Oracle Road
Tucson, Arizona 85704

Report on 6 Soil & 2 Pulp Samples

Sample Data Sheet of (none) Submitted by J. D. Lowell Date 3-10-67

Analysis Copper, Molybdenum

Remarks Copper done by Atomic Absorption method.
Molybdenum done by Colorimetric method.
Sample pulps to be returned.

cc: encl (3 copies)
file

| Sample No. | Copper | Molybdenum |
|---|---|---|
| R-35 soil | 65 | -1 |
| R-36 soil | 125 | 1 |
| R-37 soil | 115 | -1 |
| R-38 soil | 85 | 1 |
| R-39 soil | 100 | 3 |
| R-40 soil | 110 | 2 |
| G-515 a pulp | 290 | 12 |
| G-573 pulp | 95 | 3 |

E. A. Johnson

E. A. Johnson

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

Trace Analysis Assays

# ROCKY MOUNTAIN GEOCHEMICAL LABORATORIES

519 North Washington Ave. Phone: 445-4393
PRESCOTT, ARIZONA 86301

## ANALYTICAL REPORT

Date March 21, 1967 Page 1 of 1

Client Mr. J. David Lowell
Consulting Geologist
5215 N. Oracle Road
Tucson, Arizona 85704

Report on 3 Rock & 6 Soil Samples

Sample Data Sheet of Inst. 3-17-67 Submitted by J. D. Lowell Date 3-17-67

Analysis Copper, Molybdenum

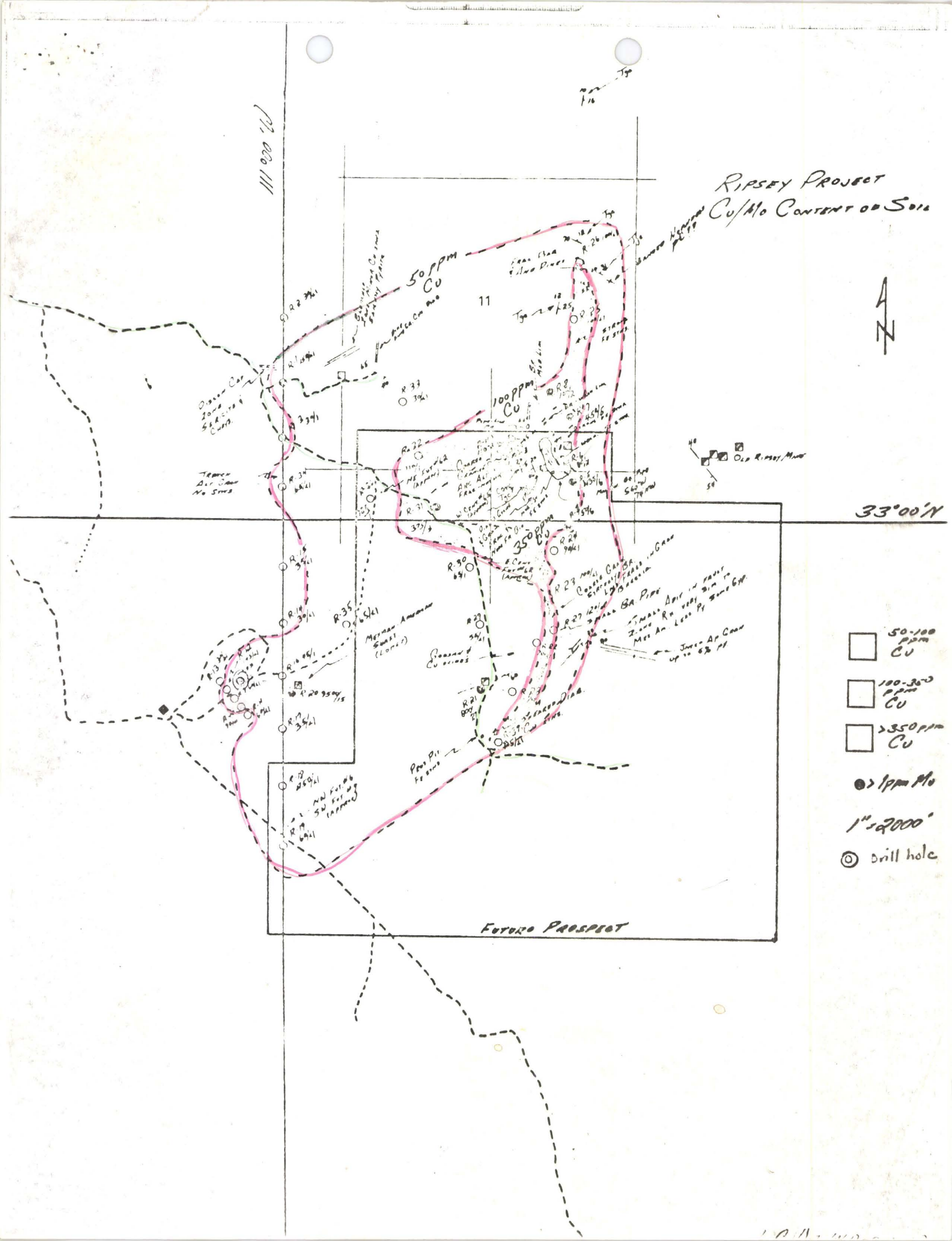
Remarks Copper done by Atomic Absorption method.
Molybdenum done by Colorimetric method. Pulps to be returned.

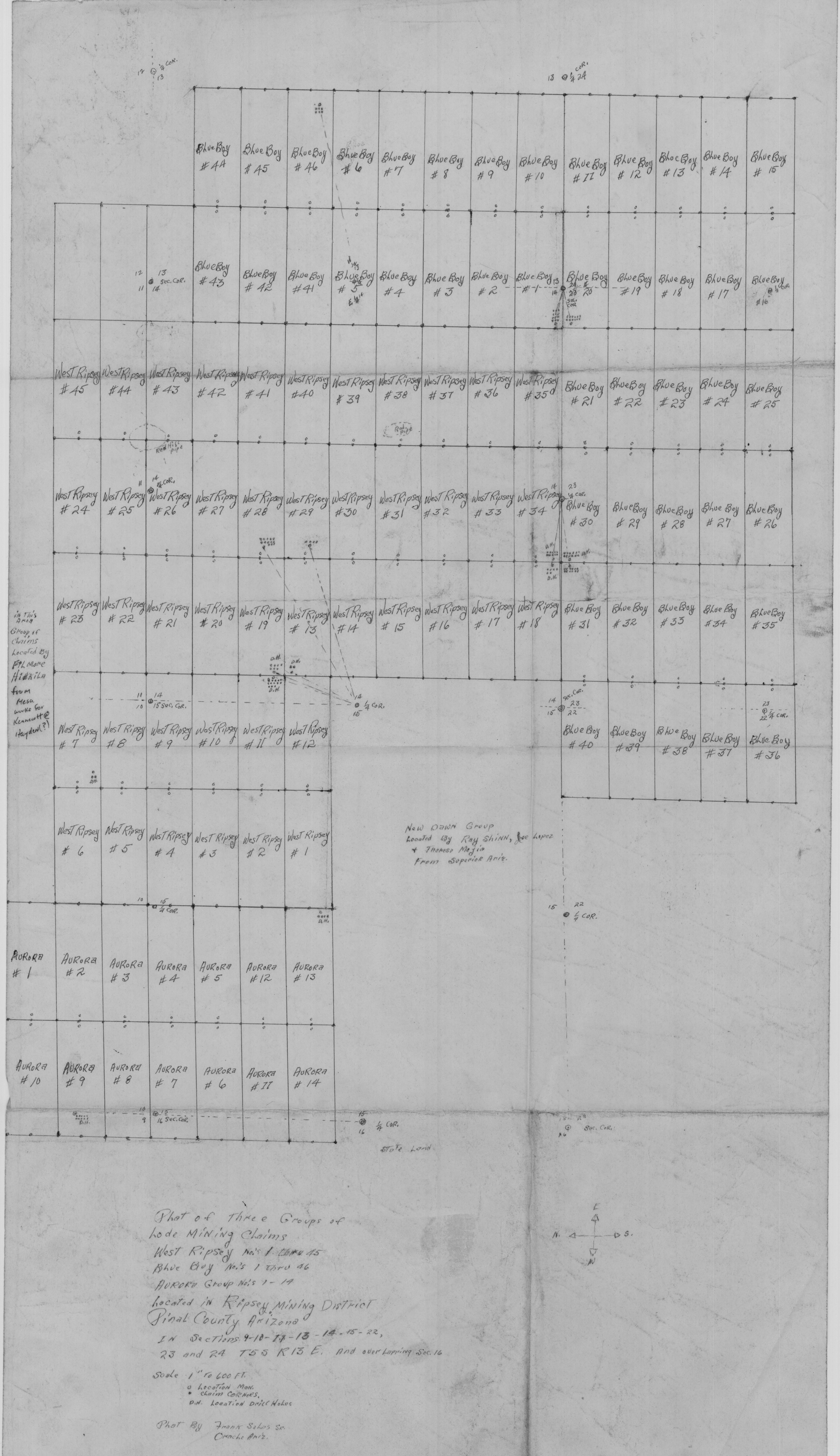
cc: encl. (3 copies)
file

| Sample No. | Copper | Molybdenum |
|---|---|---|
| R-41-R rock | 50 | 5 |
| R-43-R rock | 25 | 5 |
| R-45-R rock | 30 | 2 |
| R-41-S | 75 | 6 |
| R-42-S | 125 | -1 |
| R-43-S | 70 | 6 |
| R-44-S | 65 | 5 |
| R-45-S | 100 | 1 |
| R-46-S | 95 | 3 |

E. A. Johnson

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


RIPSEY PROJECT
Cu/Mo CONTENT OF SOIL
50 PPM Cu
100 PPM Cu
350 PPM Cu
11
33°00'N
FUTURE PROSPECT
50-100 ppm Cu
100-350 ppm Cu
>350 ppm Cu
>1ppm Mo
1" = 2000'
Drill hole

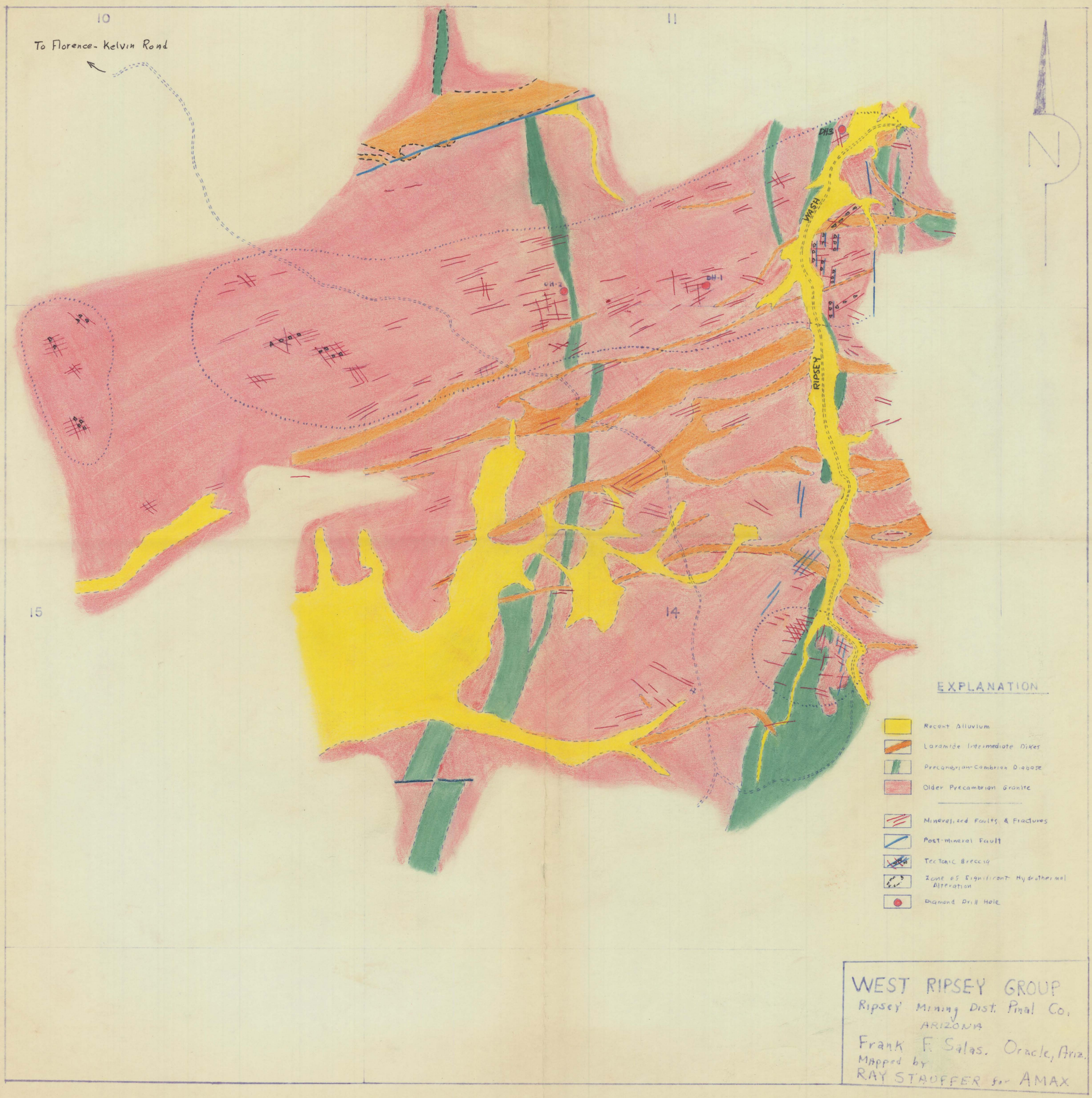



Phat of Three Groups of
Lode Mining Claims
West Ripsey No.'s 1 thru 45
Blue Boy No.'s 1 thru 46
Aurora Group No.'s 1 - 14
located in Ripsey Mining District
Pinal County Arizona
In Sections 9-10-11-13-14-15-22,
23 and 24 T5S R13 E. And overlapping Sec. 16

Scale 1" to 600 ft.
o Location Mon.
• Claim Corners.
D.H. Location Drill Holes

Phat By Frank Salas Sr.
Oracle Ariz.

AMERICAN EXPLORATION AND MINING COMPANY
Sketch Map
New Year & Blue Boy Groups of Mining Claims
Pinal County, Arizona.
Scale 1" = 400' approx.
Based on sketch by F.F. Salas, with additions by C.W. Ball.
May 14, 1955.




WEST RIPSEY GROUP
Ripsey Mining Dist. Pinal Co.
ARIZONA
Frank F. Salas. Oracle, Ariz.
Mapped by
RAY STAUFFER for AMAX

PRELIMINARY

Badgett Ripsey Project

R-HM indicates recon heavy metals (No results yet)

A-1 indicates sample #

| | | | | | |
|---|---|---|---|---|---|
| Value 1. | 20 | " | Cu | p.p.m. | exceeds 100 p.p.m. Cu |
| " 2. | 6 | " | Mo | " | exceeds 3 p.p.m. Mo |
| " 3. | 10 | " | Zn | " | exceeds 100 ppm Zn |
| " 4. | 150 | " | Pb | " | exceeds 100 ppm Pb |
| | | | | | exceeds 200 RPm Pb |

exceeds 300 ppm Cu

exceeds 6 p.p.m. Mo

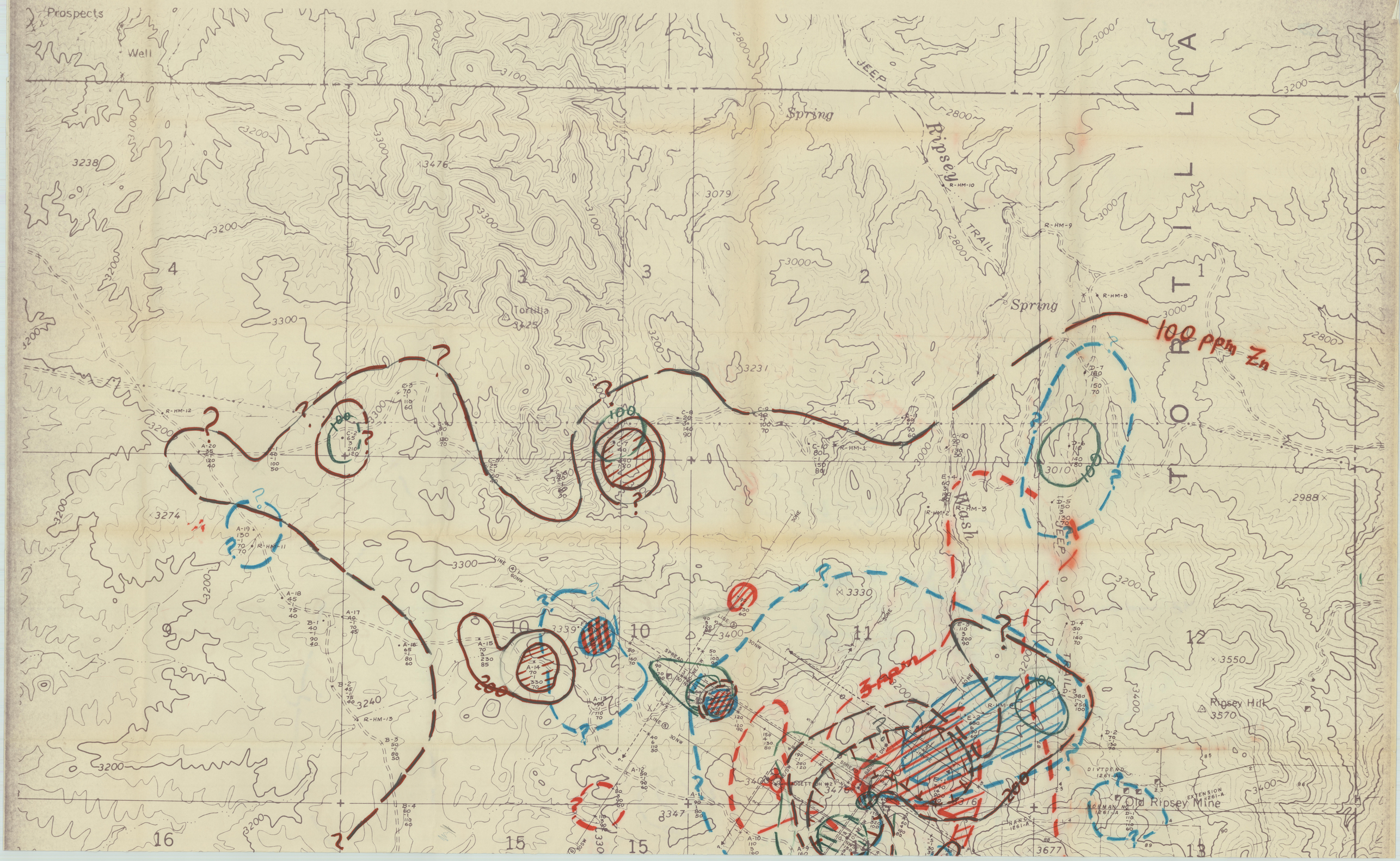
exceeds 300 ppm Zn

Geochem SKETCH
9-6-68

Revised 9-10-68

GEOPHYSICAL ENGINEERS
TUCSON, ARIZONA
P. O. Box 5671
Tucson, Arizona

Copy sent
Badgett
9-6-68
9-10-68
Tuc Office Copy



Prospects
Well
Spring
Ripsey
JEEP
TRAIL
Spring
Tortilla
3425
Wash
JEEP
TRAIL
Ripsey Hill
3570
Old Ripsey Mine
100 ppm Zn
3 ppm