

SILVER CITY MINES

Report White River Property

Yukon Territory

Aug. 1972

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White River Property 1972
Yukon Territory

~~091323~~

Wm. V. SMITHERINGALE

MINING & GEOLOGY

P. O. Box 1238
Comox, B. C.
Sept. 27, 1972

Silver City Mines Ltd.
580 Howe Street
Vancouver 1, B. C.

Gentlemen:

I wish to submit the following report, covering the underground diamond drill program on your White River, Y. T. copper property for the period June-August 1972.

In general the drilling emphasized the irregular characteristic of the mineralization at the White River copper property but was somewhat unsatisfactory due to a general low core recovery in portions of the drilling and an unsatisfactory recovery of sludge samples which amounted to approximately half of the theoretical possible amount per 10 ft. section (a large proportion less than $\frac{1}{2}$) and in one or two cases practically nothing. This was due in part to loss of collection at the collar of the holes and also to loss of material or hangup in the fractured sections of the hole.

The results varied at the different drill sites:

Drill Site No. 1

The drilling from this site (7 holes - 902 ft.) confirms the existence of irregular but high copper values in irregular masses of native copper of widely varying size from fine grains to masses weighing in pounds. Some chalcocite (Cu_2S) is irregularly associated with the native copper.

The irregularity of values is well illustrated in sections 1 and 2 where drill holes (2,4 and surface hole 6) passing within 2 to 4 ft. show marked differences in values.

In reviewing the drilling done in this section of the property, there appears to be a body of volcanic rock (namely a chloritized tuff and an amygdaloidal type) roughly 200 ft. long: 100 ft. wide and 220 ft. deep. See surface drill hole sections 12 to 15 incl.; underground drill hole sections 1 to 4 incl.

Faulting or shears appear to mark the boundary of the mineralized rock sections, which makes projections of rock types and mineralization difficult and uncertain. Surface drill hole No. 9 passes under the original surface outcrop some 300 ft. below; no mineralization was noted. Rock types in this hole are similar to those exposed on the surface and in the workings. The portion of drill hole vertically below the outcrop is badly broken and core recovery was poor. Surface drill hole 102 - 1, roughly 150 - 200 ft. north and some 60 ft. east of the original outcrop shows a 5 ft. section assaying 0.37% Cu. This is in

a fault zone in amygdaloidal volcanic rock, and shows scattered bornite. The only other evidence of bornite was in muck derived from one of the early prospect tunnels located near the northern exposure of the original outcrop.

The above area under discussion is covered, in part, by an 8 millisecond chargeability contour. (see map 3)

Drill Site No. 2

In driving the adit, the section from roughly stn. 200+40 to stn. 500+70 exposed a porphyritic type of rock, with fine grained matrix varying from grey to slightly brownish with feldspar crystals 1/8" in length with some up to 1/2" in length. This could be classified as an andesite. Altho broken crystals suggest a possible tuffaceous origin.

The section from 200+70 to 400 is generally fractured in a NW - SE direction with dips from 55° - 75° SW. From 300+30 to 400 irregular veinlets of native copper and some chalcocite were exposed during the adit advance. The widely varying results of muck sampling are summarized on sections 5, 6 and 7 along with the low values obtained from sludge samples.

The low values in sludge samples is probably the result of the irregular type of mineralization, and low sludge recovery mainly less than 50% and in some sections as low as 30%. Core recovered was generally broken and in many sections less than 50%. Examination of the core showed irregularly spaced narrow (1/16" to 1/8") copper veinlets and some chalcocite. (see logs of drill holes 5 to 9 incl.)

In passing, it may be in order to mention surface drill hole No. 5 which showed 4 ft. of 6.81% Cu immediately east of the adit. (section 17) This value was mainly native copper and points up the irregularity of the mineralization.

The section of ground between drill site No. 1 and No. 2 in the adit shows no sign of mineralization, altho surface drill hole No. 7 exposed 6.5 ft. of 0.91% Cu just above and slightly east of the stn. 500 (see section 16). The induced polarization survey gave reading of 4 milliseconds, or less, chargeability for this section. All the drill holes at site No. 2 are within the 8 millisecond contour with portions of 7, 7A, 8 and 9 within the 12 millisecond contour. The low values obtained in the adit work and drilling do not appear to support these induced chargeability rates when compared to the results surrounding No. 1 drill site. A possible suggestion is there is more uniform mineralization in the foot-wall of the main shearing which crosses the adit between 200+70 and 300+30.

Drill Site No. 3

As it was not possible to establish drill site No. 3 as originally planned, two sites along the H drift were selected to give approximately the same cross sections of ground. (see map 3) The results in drill holes 12 and 13 were unsatisfactory as these holes crossed a wide zone of shearing at small down dip angles and core recovery, particularly in 12 was very poor.

In the section 0 - 87 the recovery of core varied around 20%; in section 88 - 113 and again from 114 - 117 it appeared as tho copper was rubbed into the

core; at 115 and 116 chalcocite appeared to have been rubbed on. This suggests pieces of native copper (and maybe chalcocite) had been lost from the core barrel and worked into the core as the hole advanced. Sludge samples in these sections were also small.

Drill Site No. 4

The two holes at this location were planned to intersect the ore section in surface drill hole No. 12 which returned 2.09% Cu along 68 ft. of core. There was some question as to whether or not the drill might have followed a narrow stringer of chalcocite.

Due to badly broken ground only one hole No. 15 was completed underground. From 80 ft. to the end of hole at 175 ft. small amounts of chalcocite were observed in the broken core and only 4 check sludge samples were taken. These returned values much better than anticipated and indicate the mineralized zone in this section has a width of some 65 ft.

There is badly broken and sheared ground either side of the projected intersection with surface drill hole No. 12 with very poor core recovery. The odd bit of chalcocite was observed in the fragments of core recovered. The remaining sludge samples of drill hole No. 15 from 100 through to 170 ft. should be brought out and assayed whenever anyone goes into the property. (The same applies to drill hole No. 12, sludges from 50 to 150 ft.)

These two holes, surface No. 12 and underground No. 15 indicate a block of ground roughly 60 - 65 ft. N-S and E-W over a rough vertical extent of 50 ft. The values in surface drill hole No. 12 (2.09% over 68 ft) were obtained from split core. Sludges recovered in hole No. 15 were less than 50% of the theoretical possible.

Surface drill hole 106-1 (section 23) returned an assay of 2.5% Cu across 5 ft.; the mineralization was disseminated chalcocite. This intersection at elevation 2800 ft. is about the mid point of the elevation of the mineralization exposed in the drill holes surface No. 12 underground No. 15. It is about 130 ft. west of the intersections and may or may not be related to them.

Apparent Anomalous Chargeability Readings Relative to Exposed Mineralization

In the above record your attention has been drawn to results of the induced polarization survey which seem to give anomalous values when associated to presently exposed mineralization. Around the original outcrop, and as exposed in surface drilling, the highest chargeability reading recorded is 8.2 milliseconds. This is over the heaviest and better exposed ~~mineralization~~ mineralization adjacent to cross section line 100 on the "A" Base line.

Along the apparent barren section in the adit, between drill site No. 1 and 2, -adjacent to section line 101 base line A, - the chargeability reading is 4 milliseconds or less, which seems to be in order.

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From section line 103 north to 107 on base line A, which embraces the area exposed by the adit work, underground and surface drilling, the peak chargeability readings are 13.8; 14 and 16 on lines 103, 105 and 107 respectively. As far as our sample results go these high readings are over less mineralized ground than that above the original outcrop which only gave 8.2 as a peak reading.

In referring to the plot of chargeability readings (see map 2 and note the corrected plotting of Base A to Base line and grid B) it will be noted that the magnetic anomaly with gamma readings greater than 2000 lie east of and separated from the high chargeability readings, which indicate the latter are not affected by any magnetite-ilmenite content of the rocks that is probably causing the magnetic anomaly.

This leaves the alternatives of:

- (a) The polarization survey is erroneous, - which is not accepted.
- (b) The sampling and assays to date in this northern section are not representative of the grade of mineralization. - i.e the results are too low.
- (c) There is a zone of more uniform and better mineralization than presently exposed.

There are two other factors to be mentioned:

- (a) The chargeability readings greater than 12, which extend from line 800 north to line 2400 (Base Line, Grid B) indicate a good induced polarization anomaly of reasonable continuity.
- (b) Axis A2 - see plate 3, Seigle and Assoc. report - has not been investigated to date. This axis is roughly 300 ft. west of axis A1 and is roughly parallel to but around 250 lower in elevation.

To carry on further evaluation of these indicated favourable factors, - which I believe warrant serious consideration, - is in my opinion somewhat beyond the resources of the company as presently constituted. Limited financing, as carried out in the past few years, is not sufficient to accomplish a proper evaluation and would be detrimental to the Company. I would suggest efforts be made to interest a large aggressive operating company, or a well organized exploration group, to make a careful review and assessment of present data with a view to financing and carrying out further required development.

Summary of Drill Program 1972

The drill crew arrived in camp the afternoon of June 19; Drilling equipment was dropped at the adit portal by helicopter the same afternoon. Between afternoon of June 19 and June 21, the lighting plant, bombardier and compressors were checked and put in operating condition; drill equipment was set up in the adit, air lines and water lines laid; camp reorganized.

Drilling started at drill site No. 1 in late afternoon of June 21 and continued without interruption to the night shift of August 11. During this period 2914 ft. of A.2. drilling were completed underground, divided as follows.

Drill Site No. 1

Drill hole	# 1 - 80 ft.	Drill hole	# 3B - 163 ft.
	2 - 153 ft.		3C - 105 ft.
	3 - 144 ft.		4 - 121 ft.
	3A - 136 ft.		
		Total	902 ft.

Drill Site No. 2

Drill hole	# 5 - 152 ft.	Drill hole	# 7A - 153 ft.
	6 - 144 ft.		8 - 138 ft.
	7 - 151 ft.		9 - 180 ft.
		Total	918 ft.

Drill Site No. 3

Adjusted from initially planned site due to physical difficulties preventing establishment of site as planned.

Drill hole	#10 - 135 ft.	Drill hole	# 13 - 176 ft.
	11 - 145 ft.		16 - 200 ft.
	12 - 197 ft.		
		Total	853 ft.

Drill Site No. 4

Drill hole	#14 - 66 ft.		
	15 - 175 ft.		
		Total	241 ft.

Between the night shift of August 11 and afternoon of August 14 all drill equipment was removed from the edit, taken to Rifle Lake and flown to Pick Handle Lake on the highway. Camp was winterized and closed of August 14. The drill equipment was delivered to Whitehorse by truck on August 15.

Drilling was stopped due to final consumption of diesel fuel. Presently at camp there is:

- (a) Approximately 260 gals. gasoline in tank at core shed plus approximately 50 gals. stove oil in drums.
- (b) A possible 250 gals. diesel fuel in service tank for lighting plant.
- (c) Service tanks for heating stoves at camp about $\frac{1}{2}$ full.
- (d) Approximately 30 lb. of propane remains in main supply tank for cookhouse plus 4 - 100 lb. stand by tanks.

Radio telephone was returned to C.N.T. at Whitehorse.
Minor lamps and charging units were taken to Whitehorse for overhaul and servicing.

All minor equipment taken to Whitehorse for storage to prevent repetition of camp thieving.
Water lines and pump drained.

The main compressor is in critical condition and should be taken to Whitehorse for complete overhaul before further operation. The standby compressor should likewise have inspection and overhaul prior to further operation.

The bombardier appeared to be in good running condition, but inspection and minor servicing would be in order. A new left track was installed just prior to leaving camp. A possible replacement of the right track should be considered.

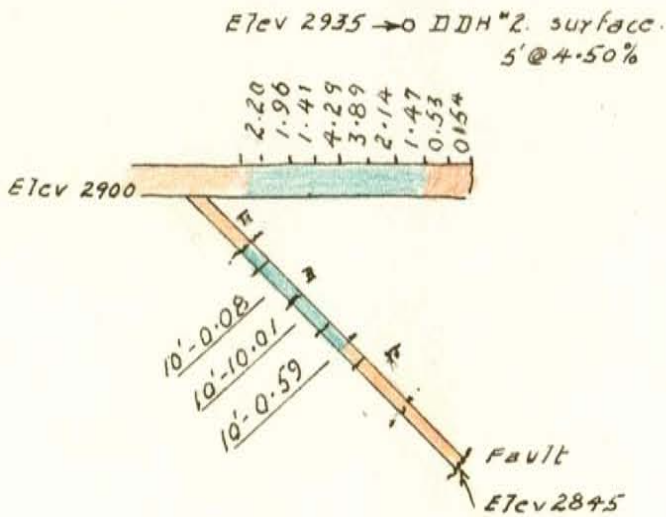
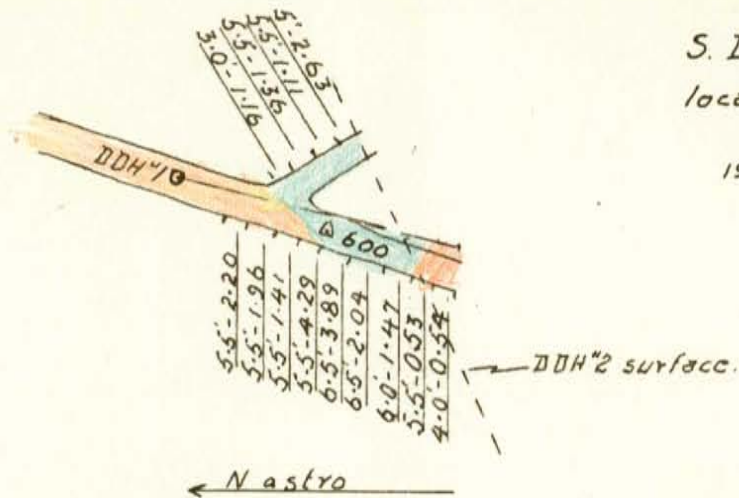
Respectfully submitted,

Wm. V. Smitheringale

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APPENDIX No.1
MAPS & SECTIONS



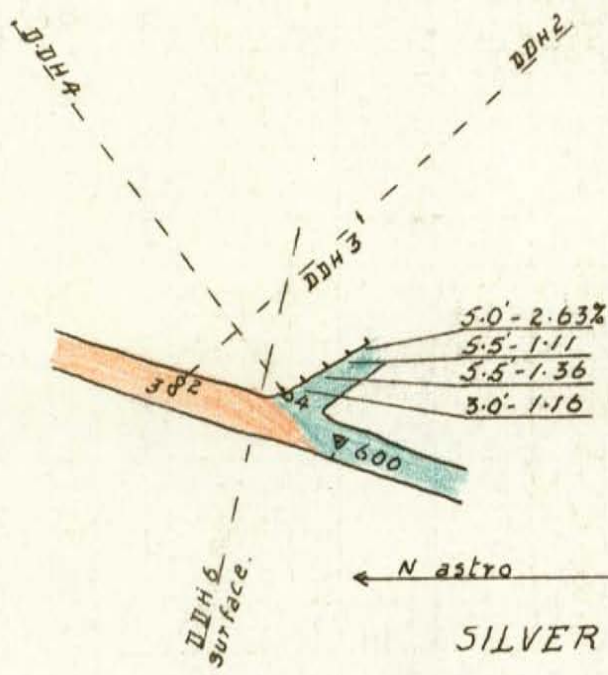
Plan & Section. DDH#1

Scale 1"=40'

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1972.

SECTION 1

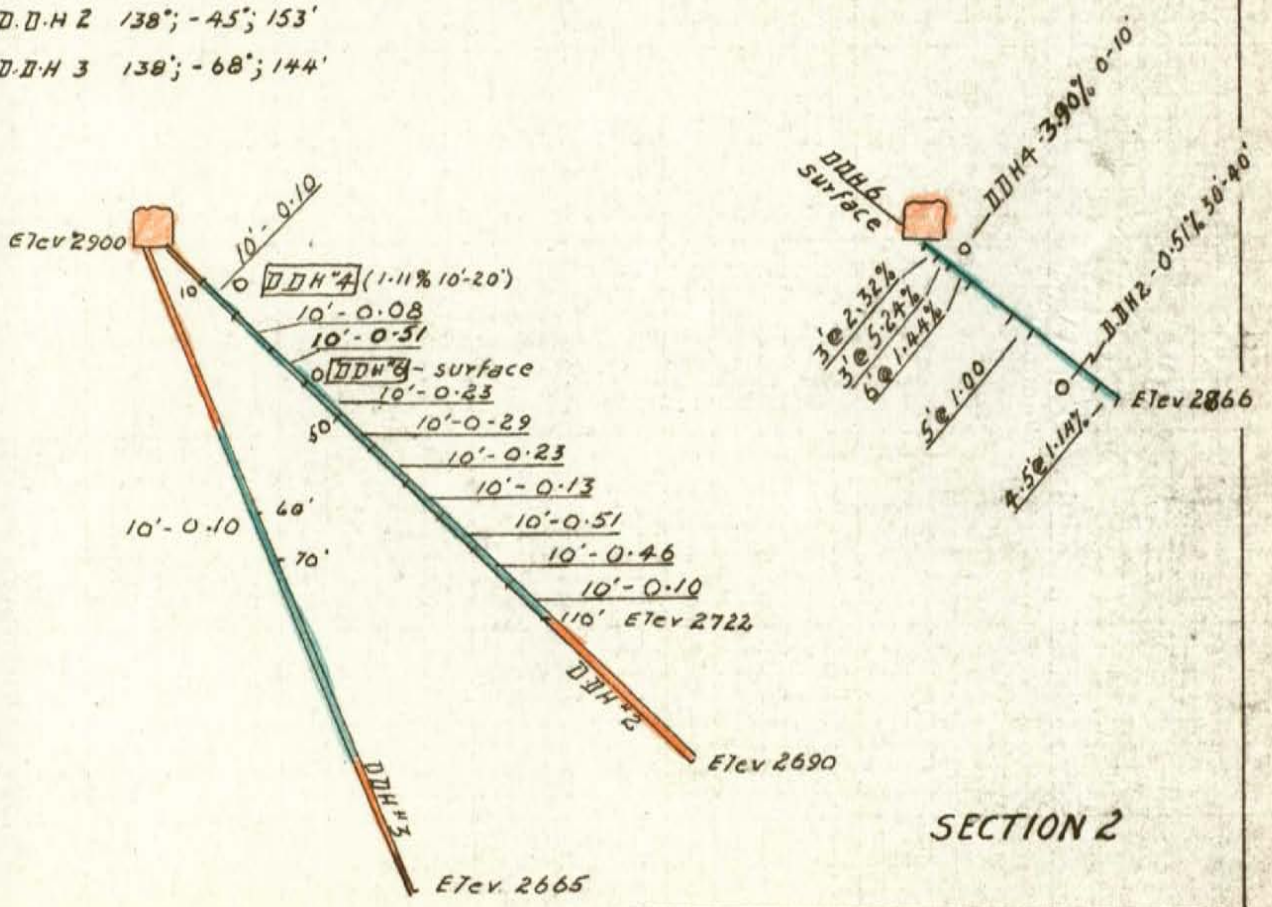


Plan S. Drift showing locations of D.D.H. 2, 3, 4 surface D.D.H. 6

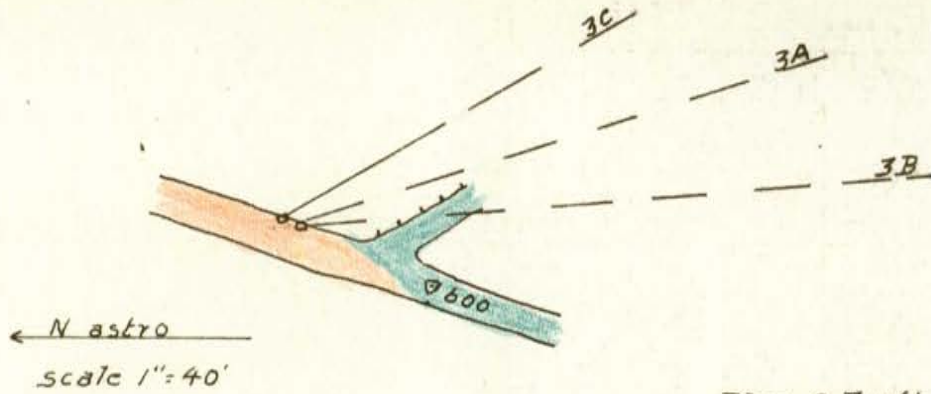
scale 1" = 40'

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1972

- D.D.H. 2 138°; -45°; 153'
- D.D.H. 3 138°; -68°; 144'

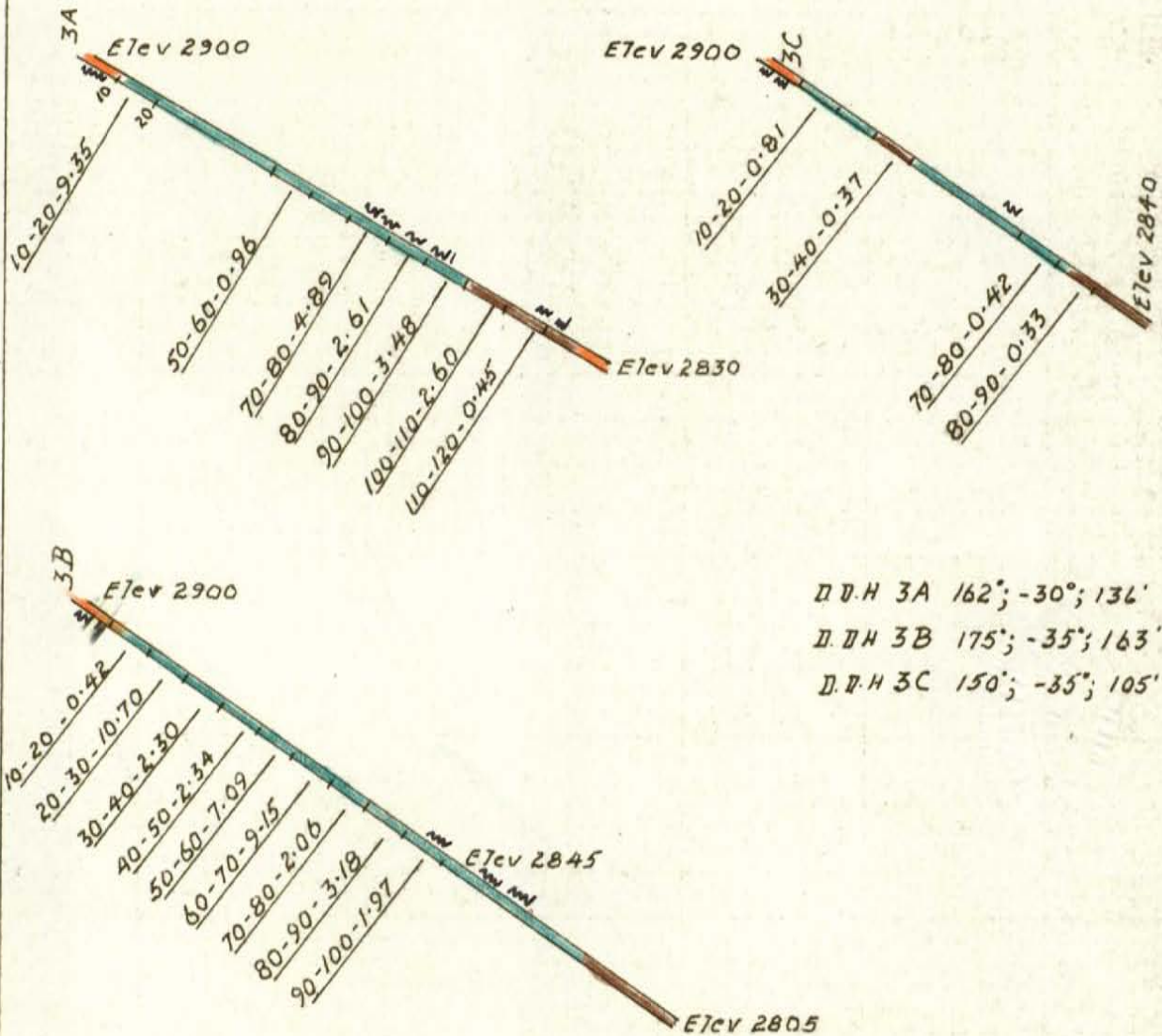


SECTION 2



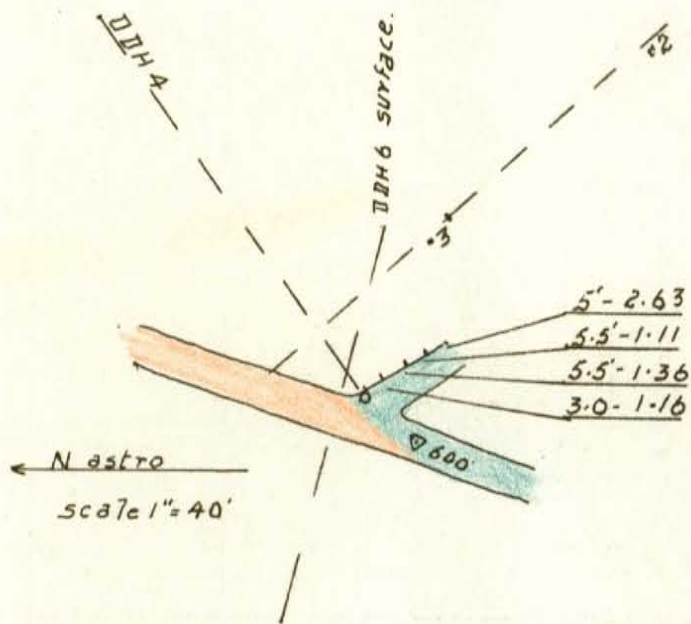
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1972.

Plan 5 Drift showing
locations of DDH 3A:3B:3C.

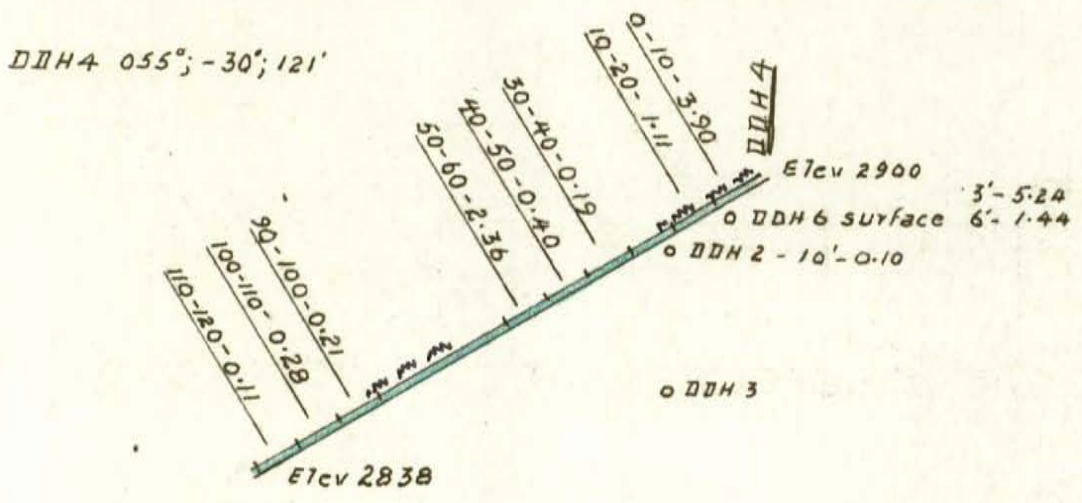


DDH 3A 162'; -30°; 136'
DDH 3B 175'; -35°; 163'
DDH 3C 150'; -35°; 105'

SECTION 3



Plan 5. Drift showing locations DDH 4; 2:3 6 surface.

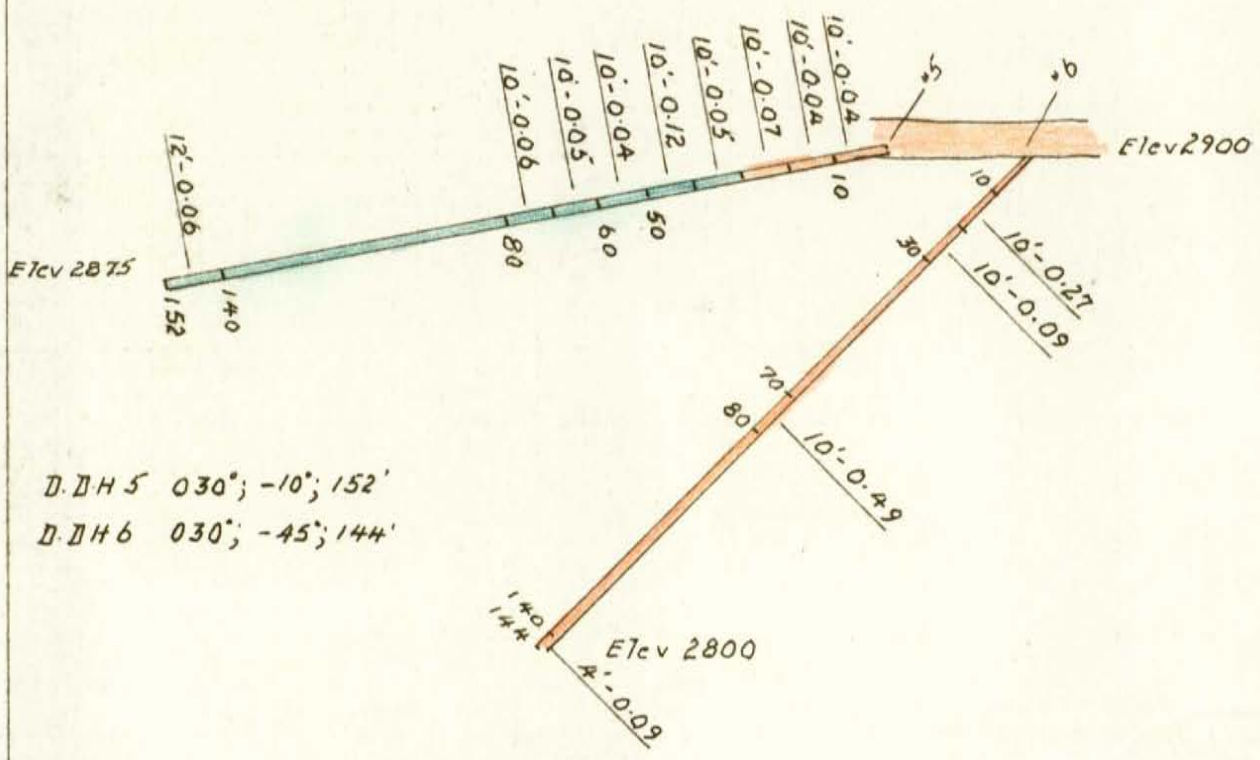
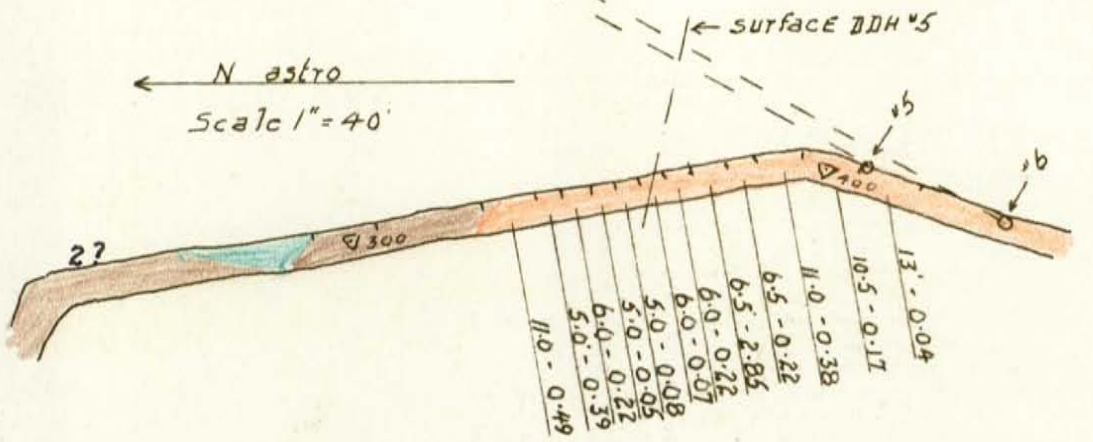


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1972

S Drift showing location.

DDH #5 & 6

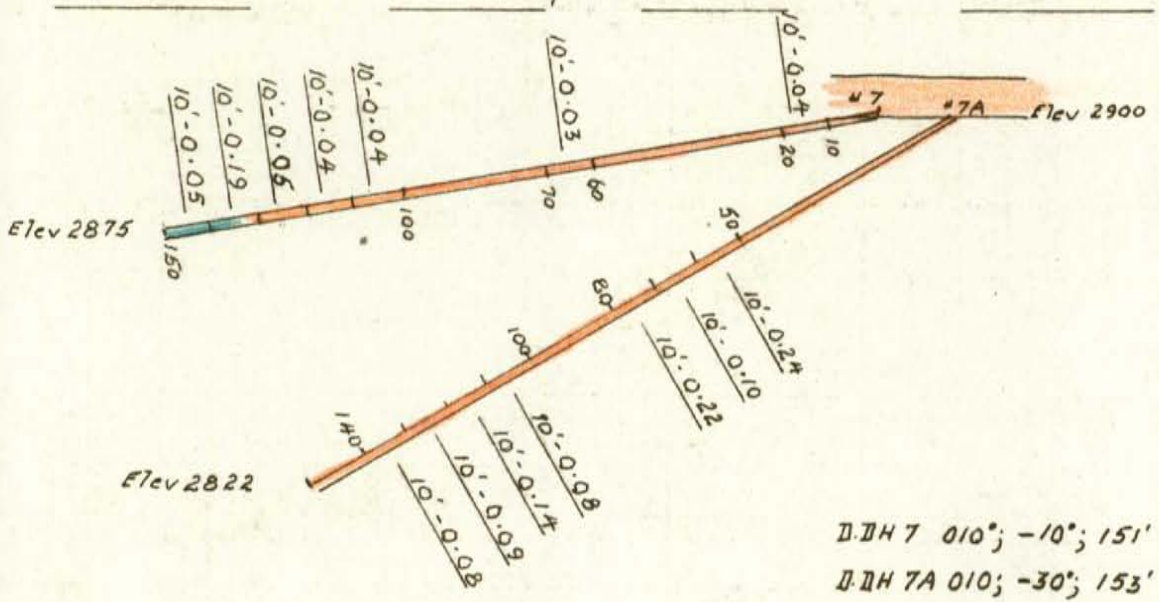
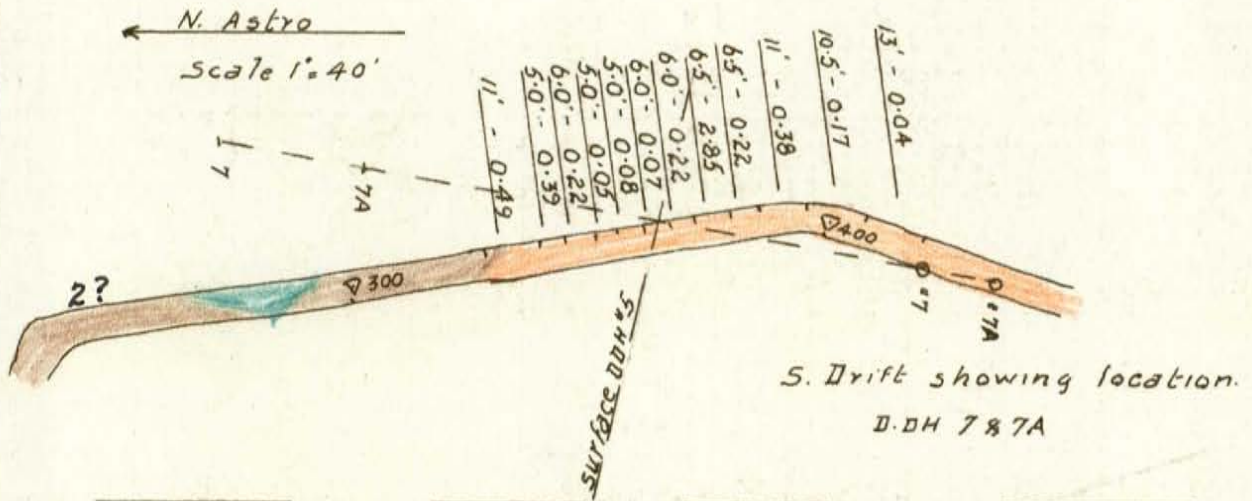
N astro
Scale 1" = 40'



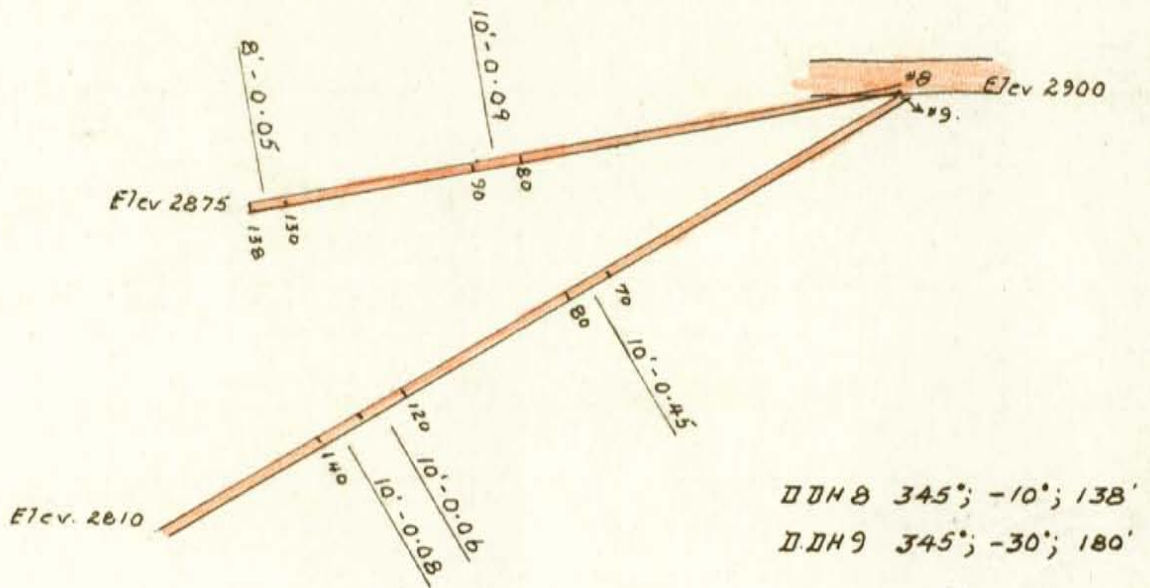
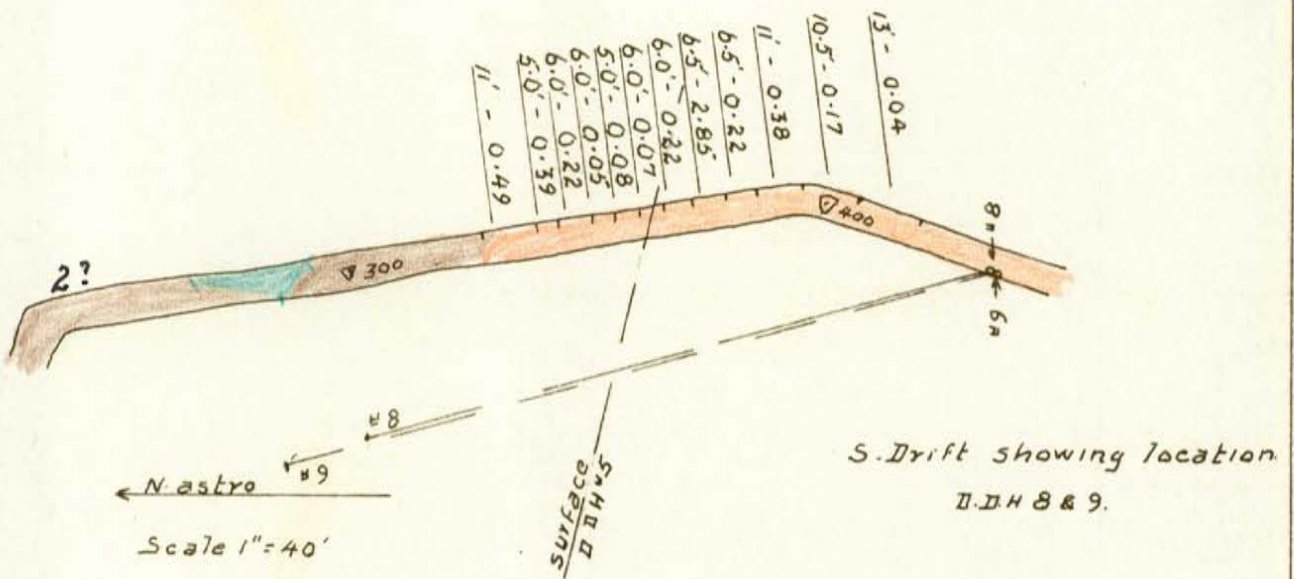
DDH 5 030°; -10°; 152'
 DDH 6 030°; -45°; 144'

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 1972

SECTION 5

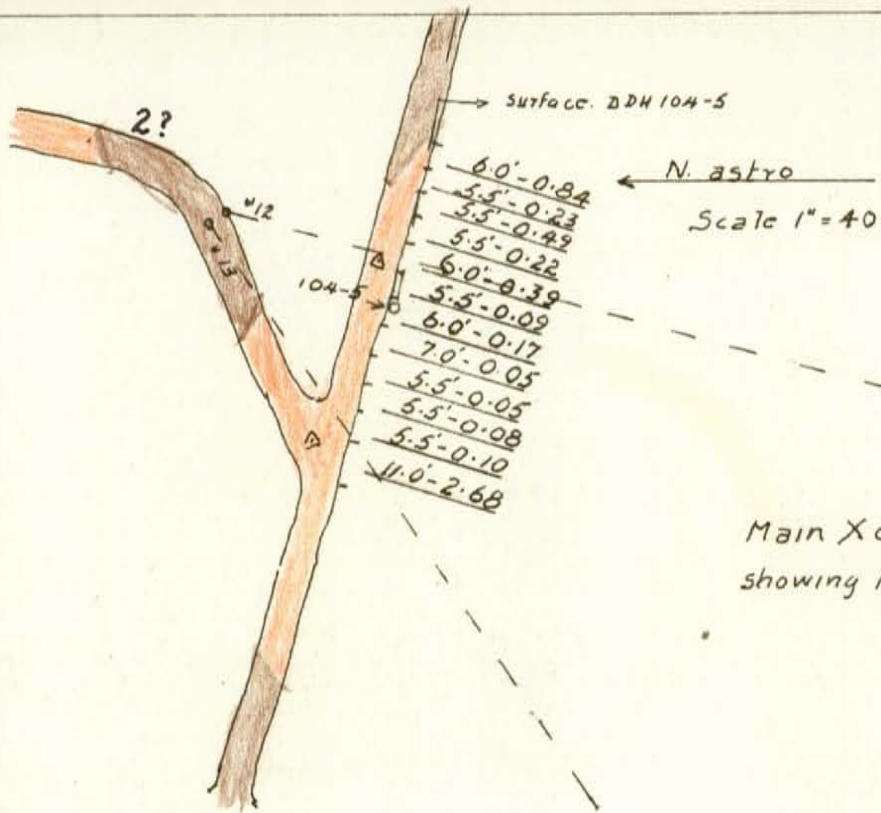


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1972.

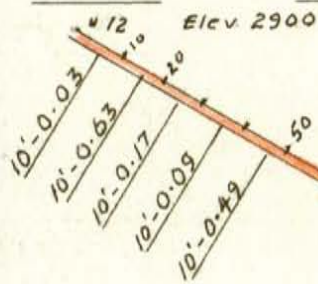


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1972.

SECTION 7

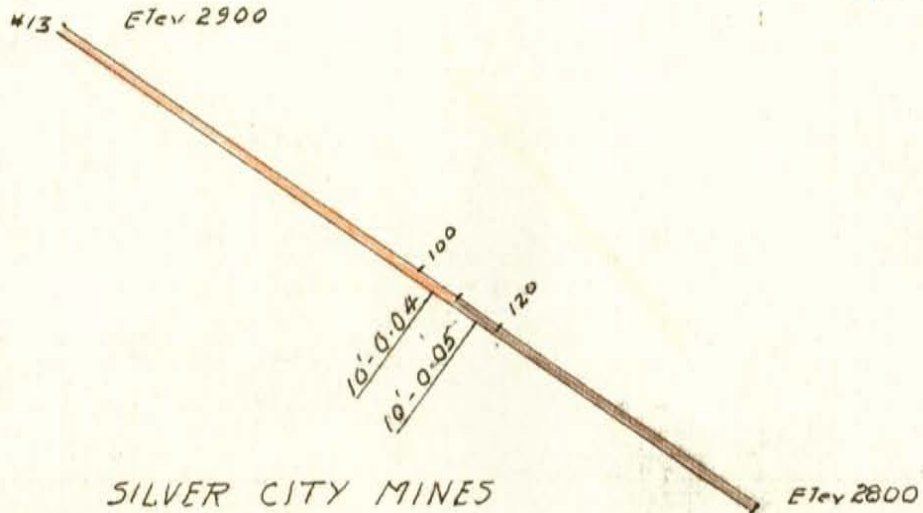


Main Xcut & N. Drift
showing location. DDH 12 & 13



DDH 12 195°; -30°; 197'

DDH 13 237°; -35°; 176'



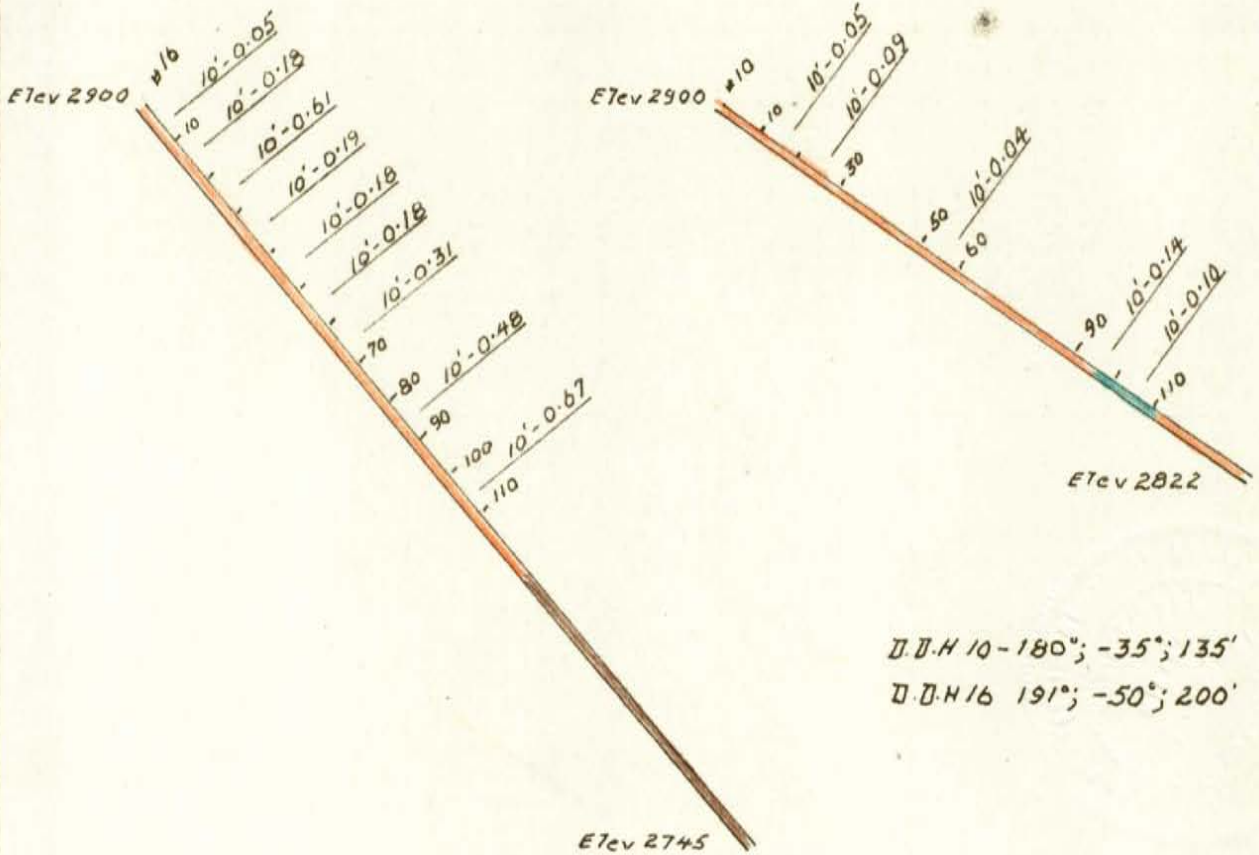
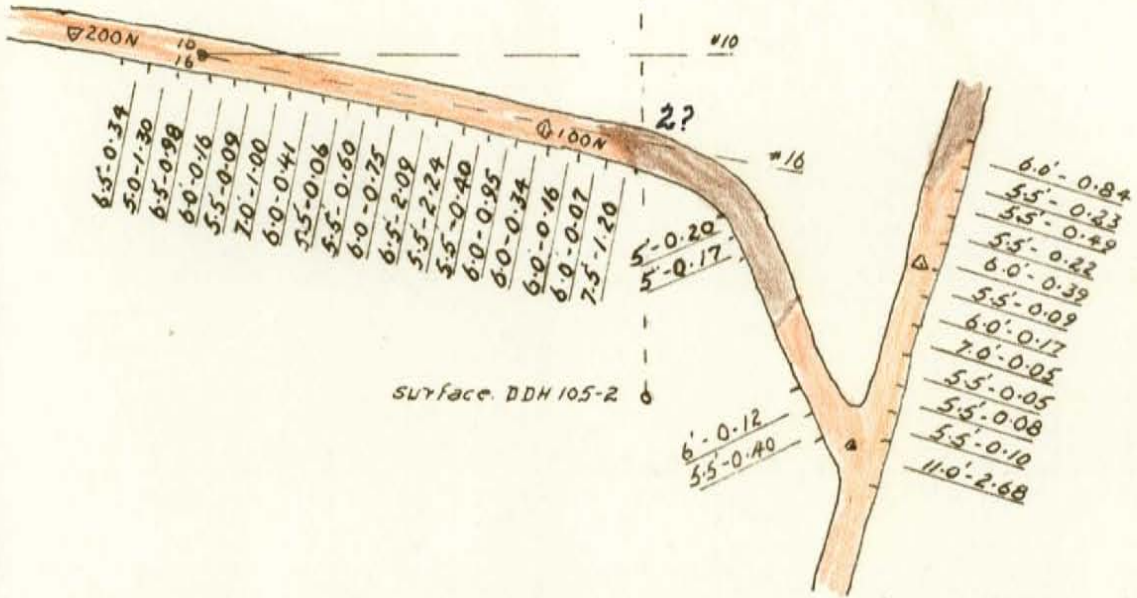
SILVER CITY MINES
1972.

SECTION 8

N Drift showing location

DDH #10 & #16

← N astro
Scale 1" = 40'

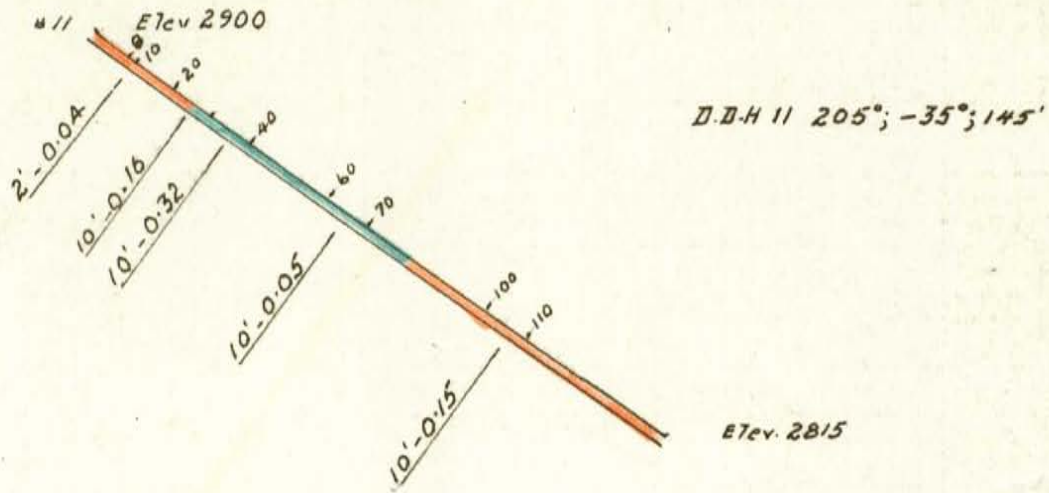
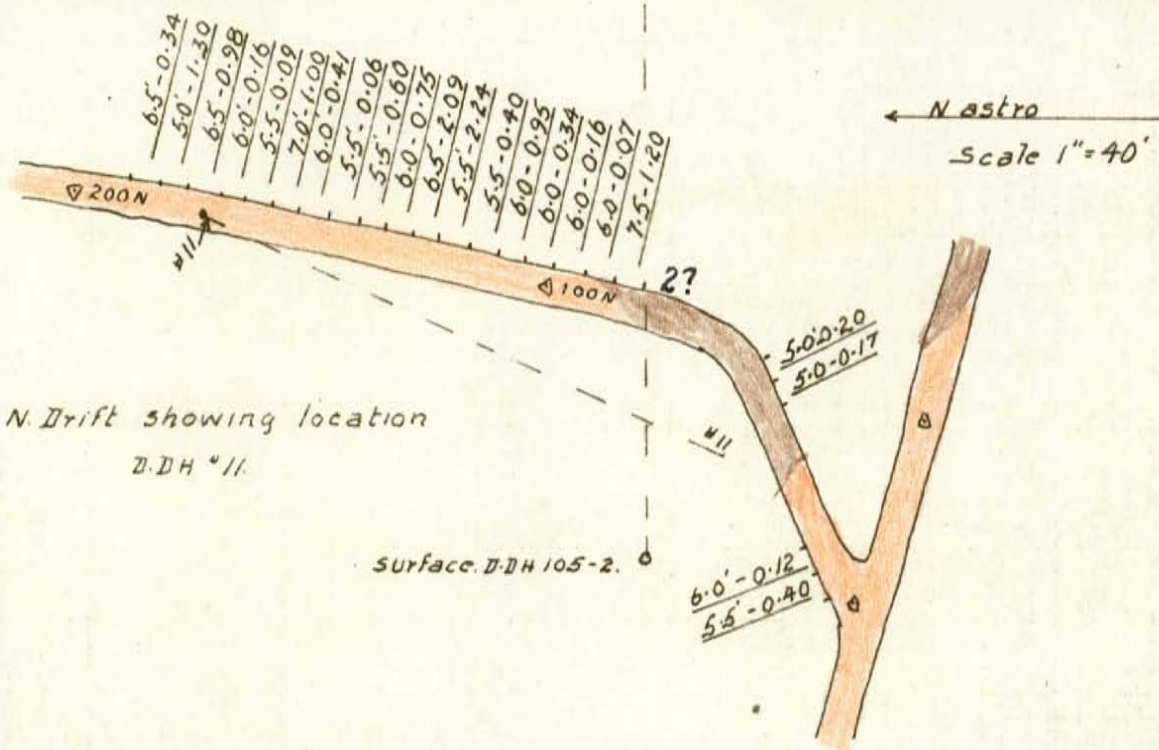


DDH 10-180°; -35°; 135'

DDH 16 191°; -50°; 200'

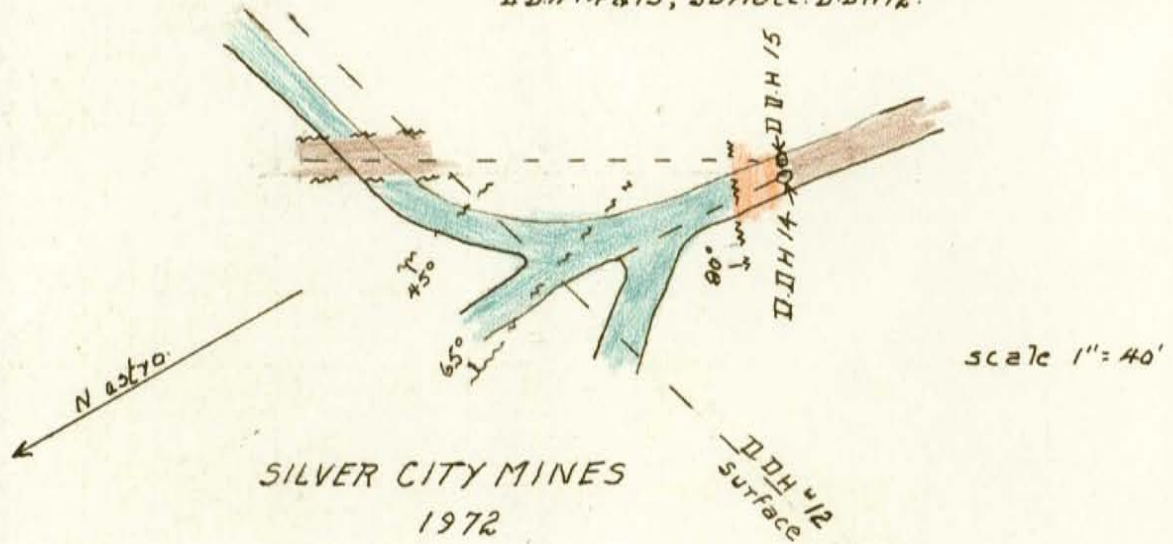
SILVER CITY MINES
1972

SECTION 9



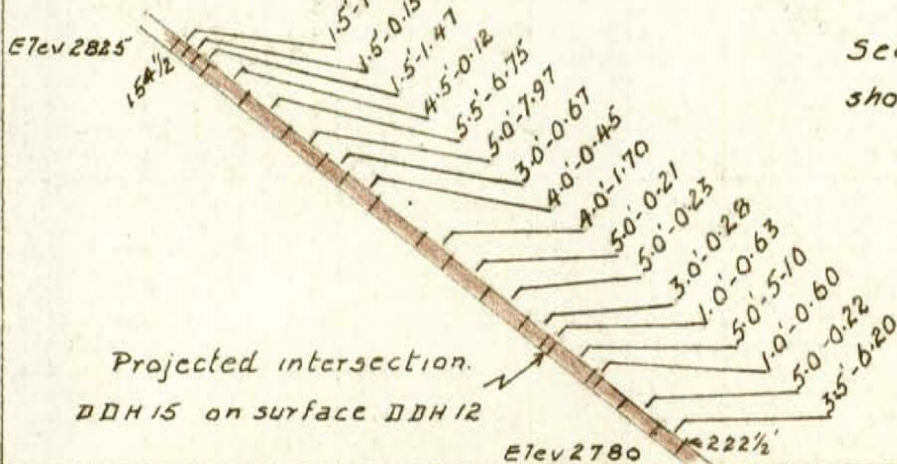
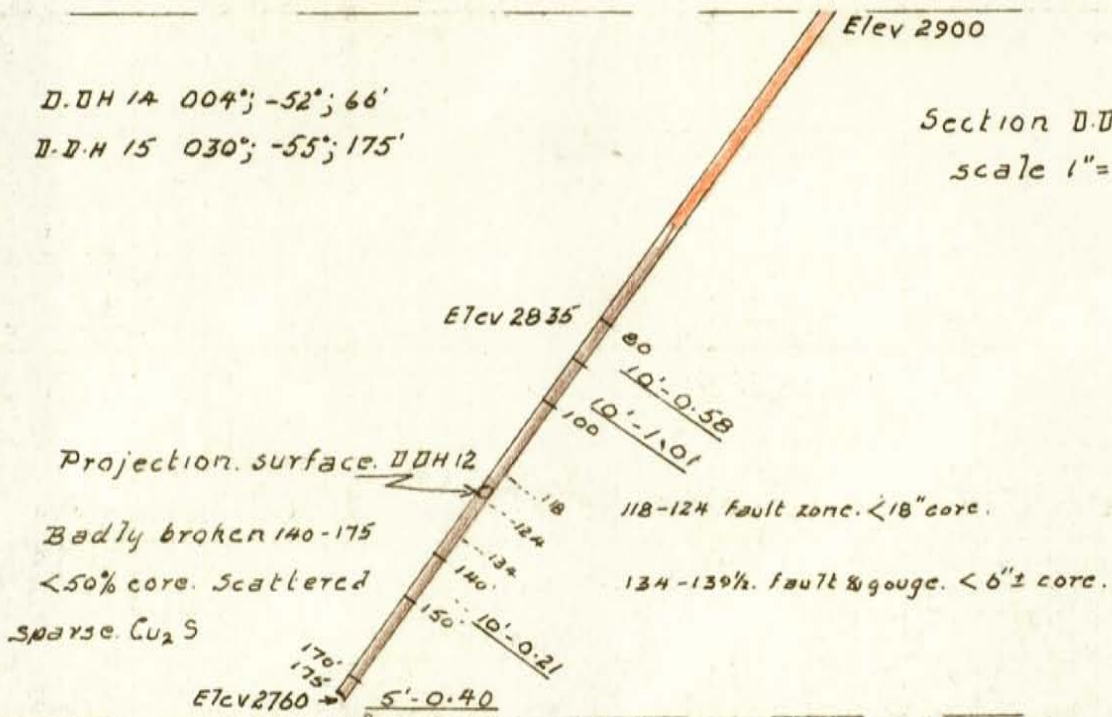
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1972

Plan N Drift showing locations
D.D.H 14 & 15; surface D.D.H 12.

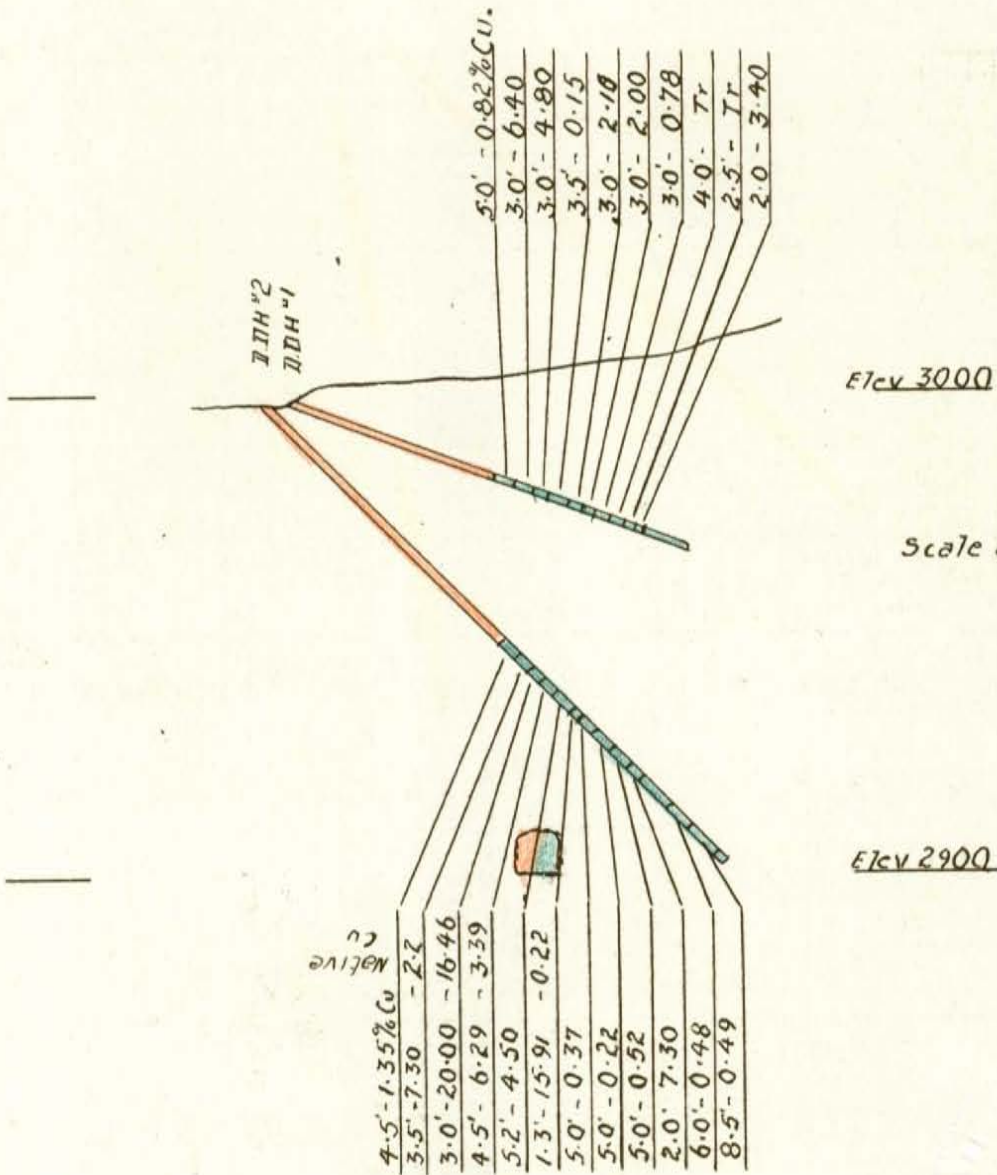


D.D.H 14 004°; -52°; 66'
D.D.H 15 030°; -55°; 175'

Section D.D.H 15
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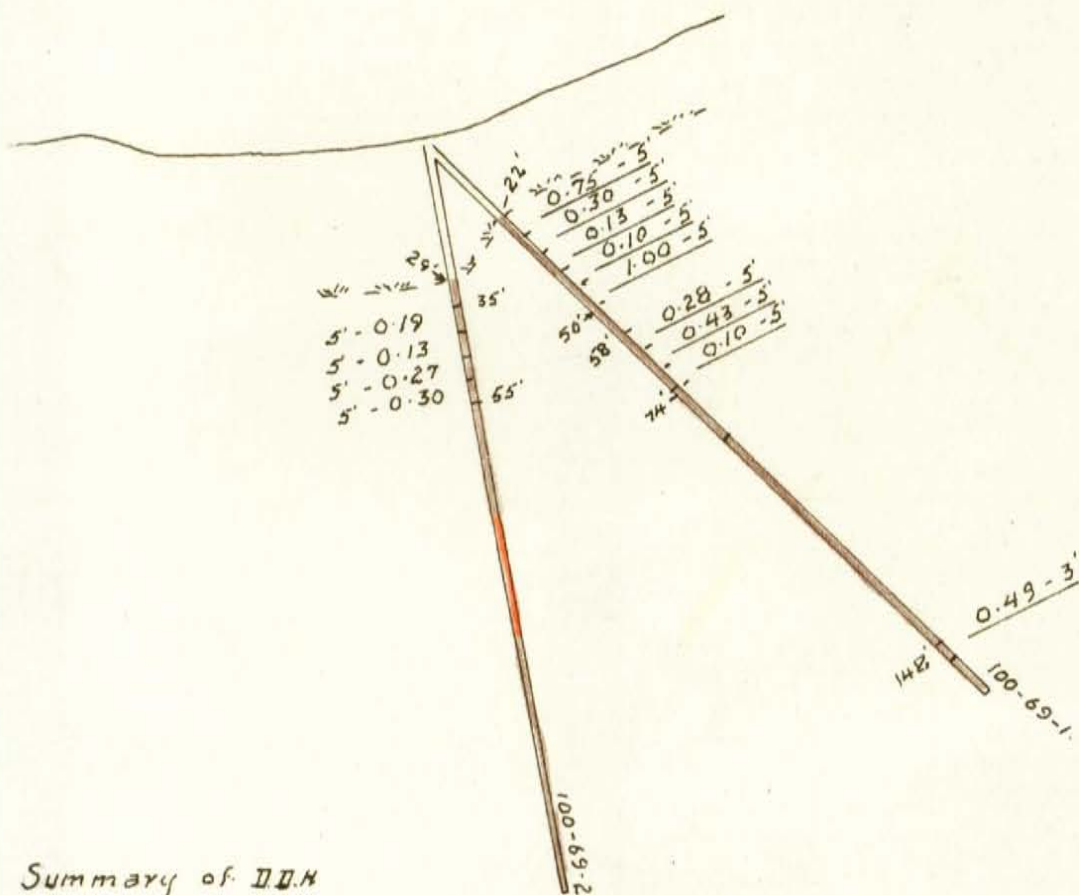


SECTION 11



SILVER CITY MINES.
1972

SECTION 12



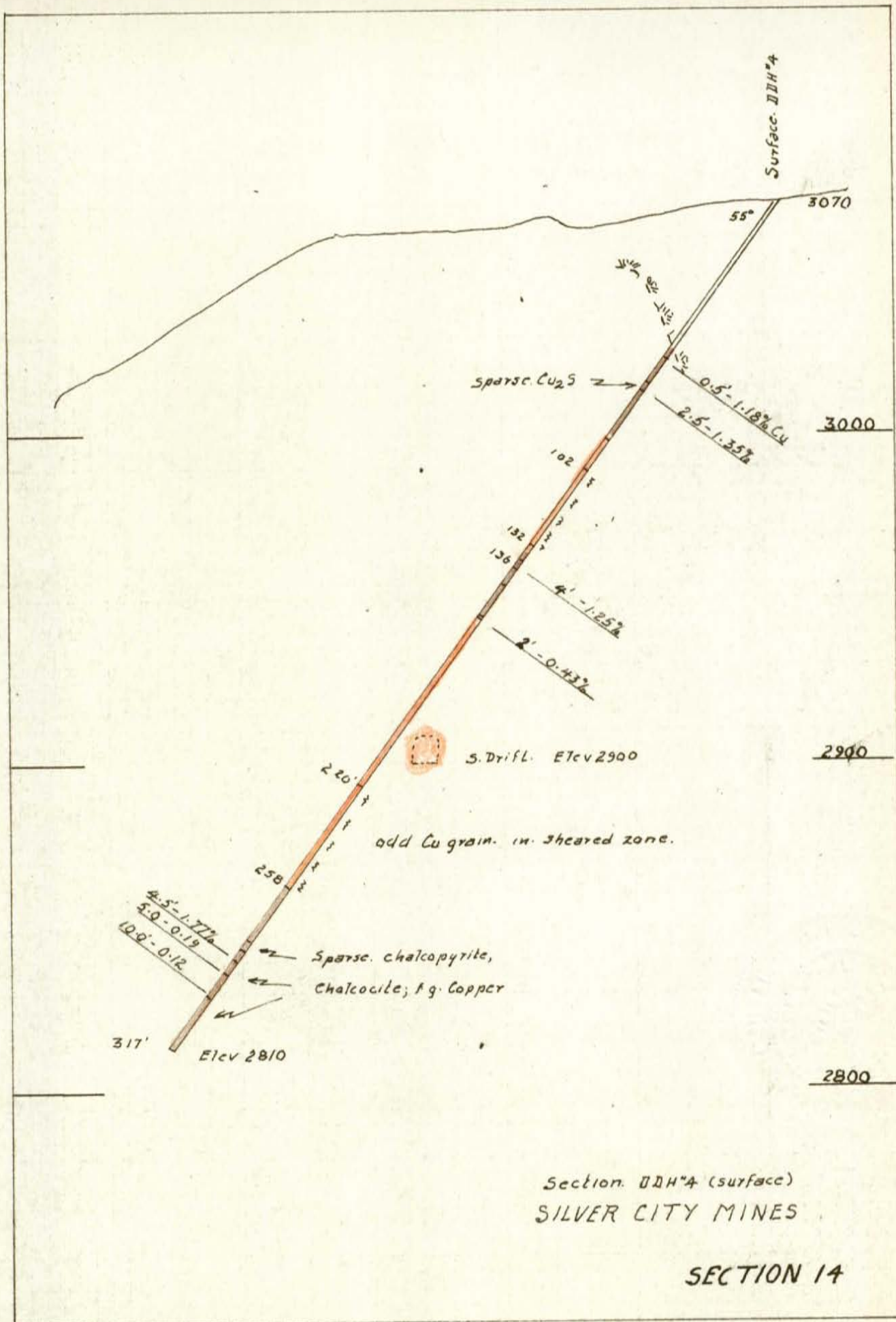
Summary of I.D.M.

100-69-1

Mainly amygdaloid andesite.
 except 75-87 = greenstone + traces
 dissem. native Cu
 22'-40' - 1% dissem. Cu_2S & tiny veinlets.
 48-49 - 5% Cu_2S + traces Native Cu
 51-52 1% " " "
 57 - 1/2% " " "
 63-64 - 1% Cu_2S in 1/2" veinlet
 66-67 2% Native Cu.
 149-150 1% dissem. Native Cu
 + traces Cu_2S .

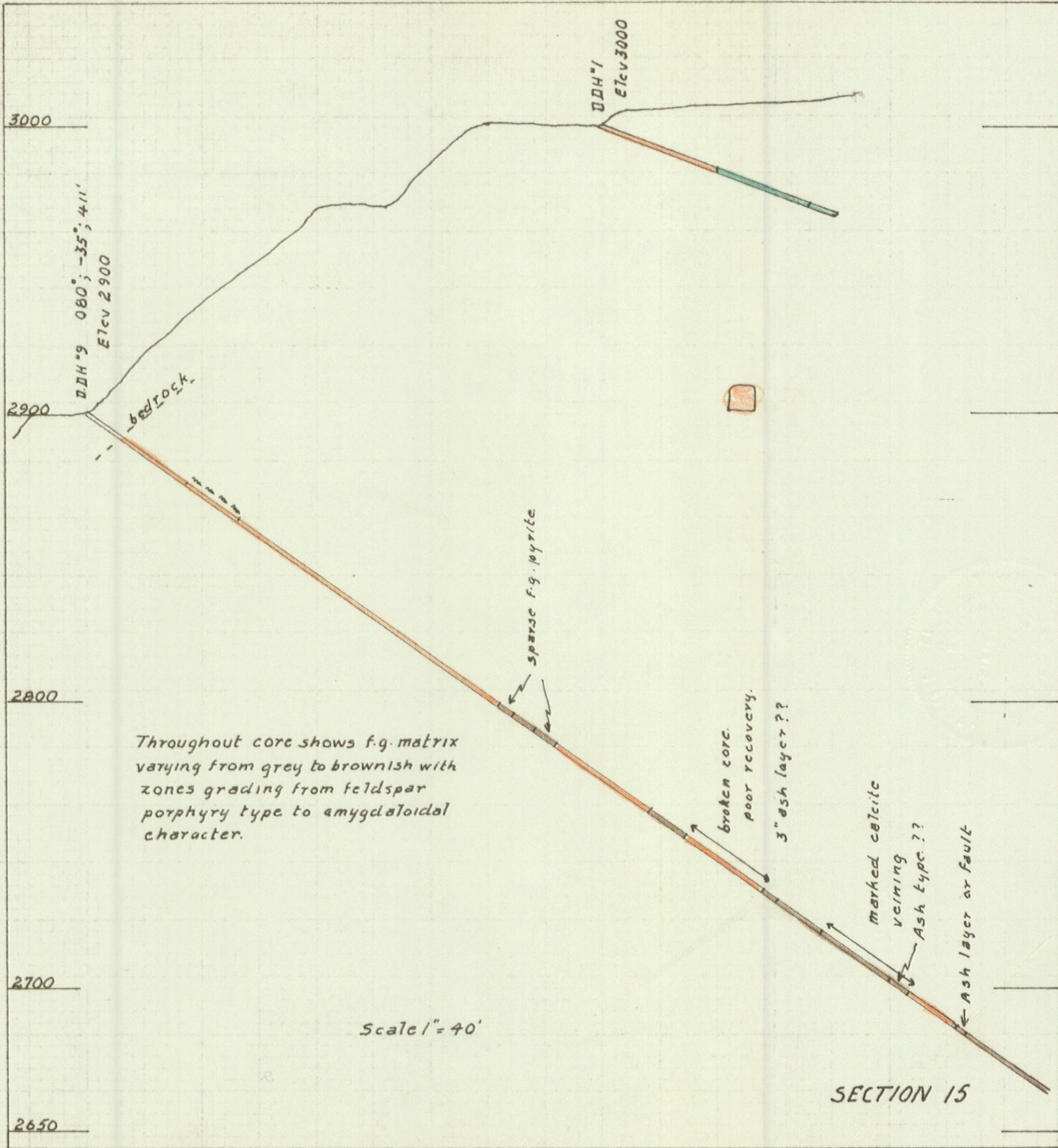
100-69-2.

29-80 amygdaloid andesite.
 80-86 greenstone + traces. dissem Cu.
 86-105 porphyritic andesite.
 105-159 amygdaloid andesite.
 38-40 - 1% chalcocite.
 45-52 - 3% Cu_2S in irreg. veinlets.



Section. DDH#4 (surface)
SILVER CITY MINES

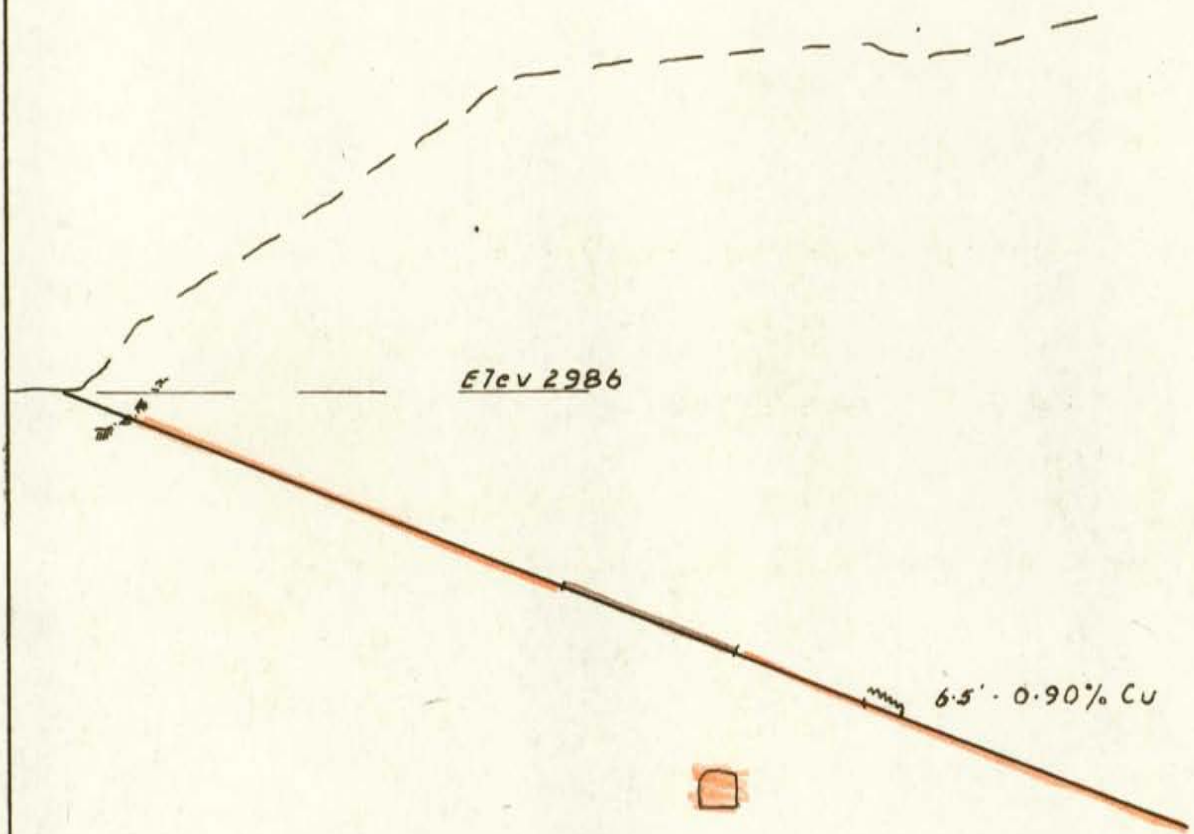
SECTION 14



Throughout core shows f.g. matrix
 varying from grey to brownish with
 zones grading from feldspar
 porphyry type to amygdaloidal
 character.

Scale 1" = 40'

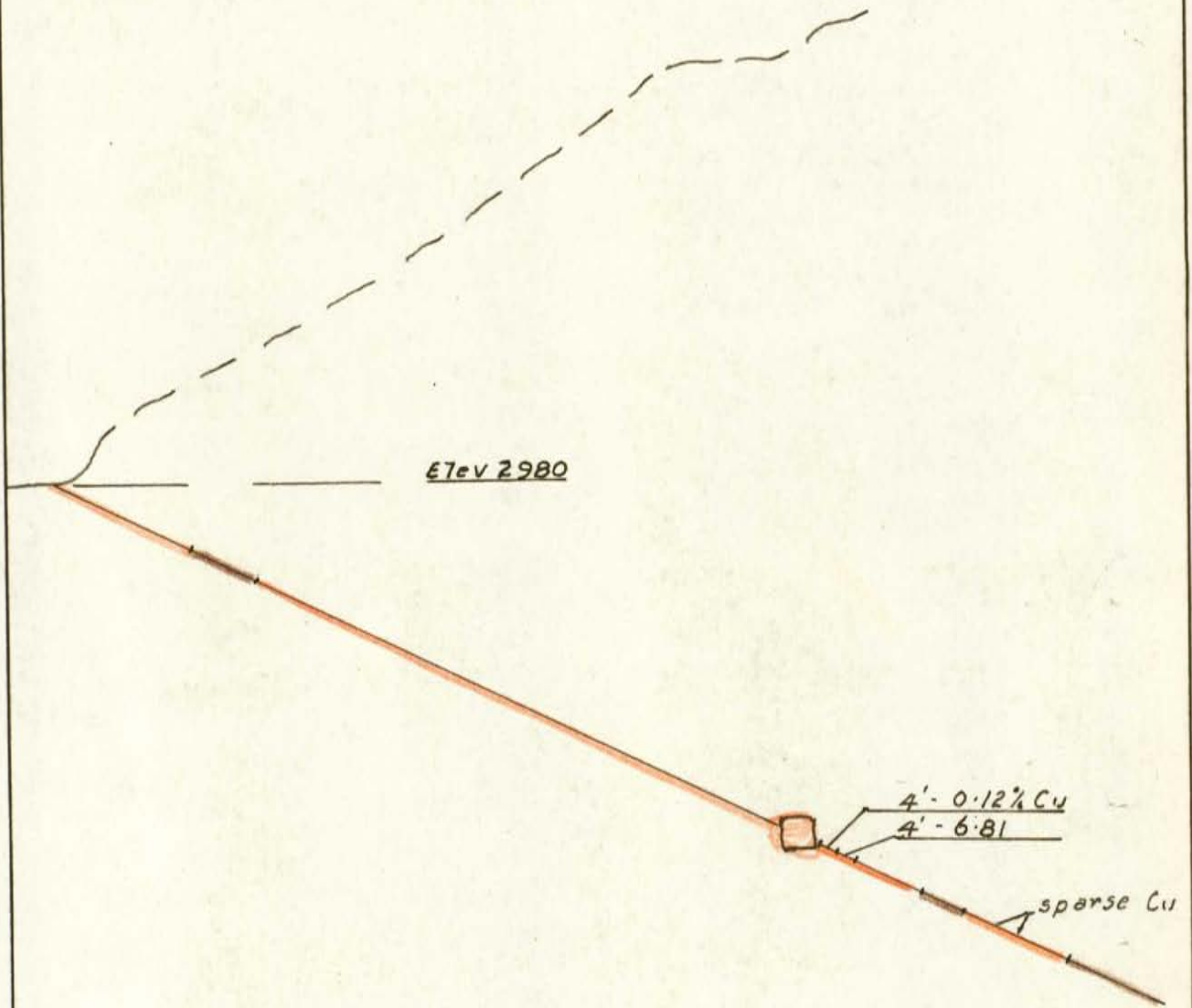
SECTION 15



SECTION D.B.H #7

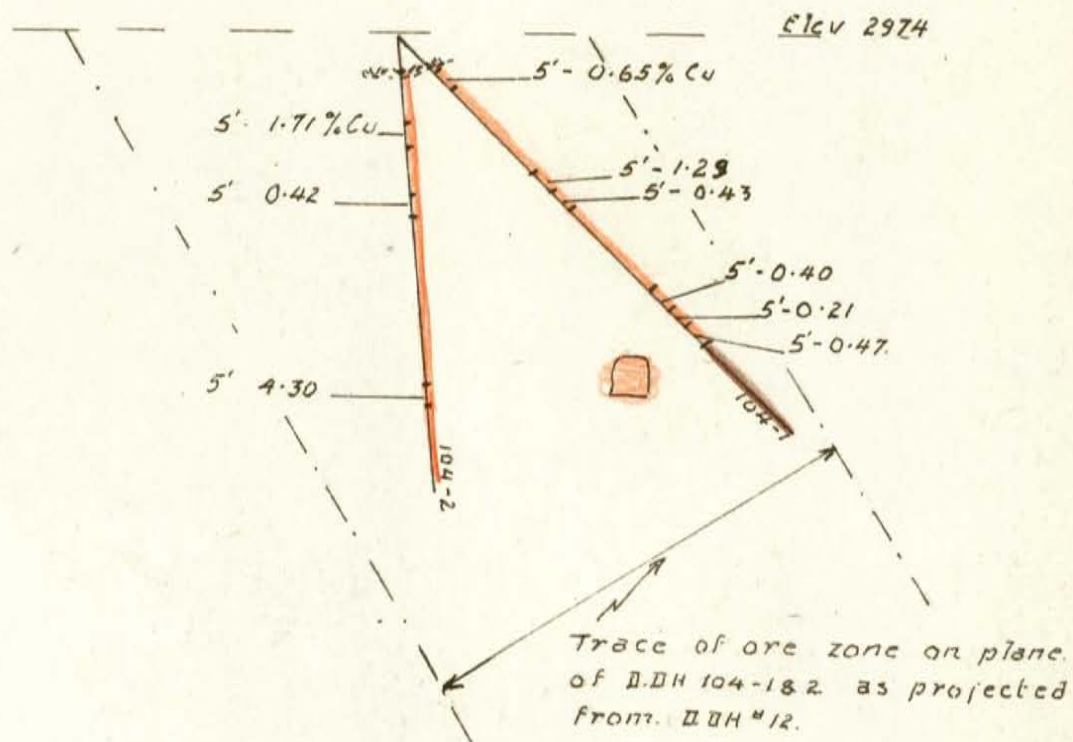
Scale 1" = 40' 30" June '70

Section #16



SECTION DDH#5
Scale 1" = 40' 30" June '70

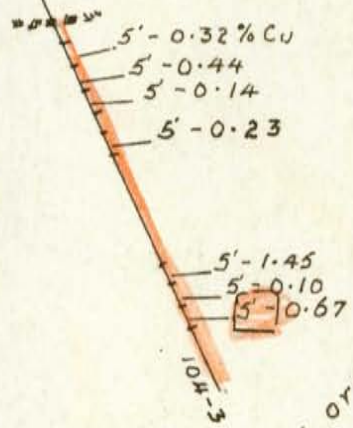
Section #17



Scale 1" = 40'

SECTION #18
D.D.H 104-182

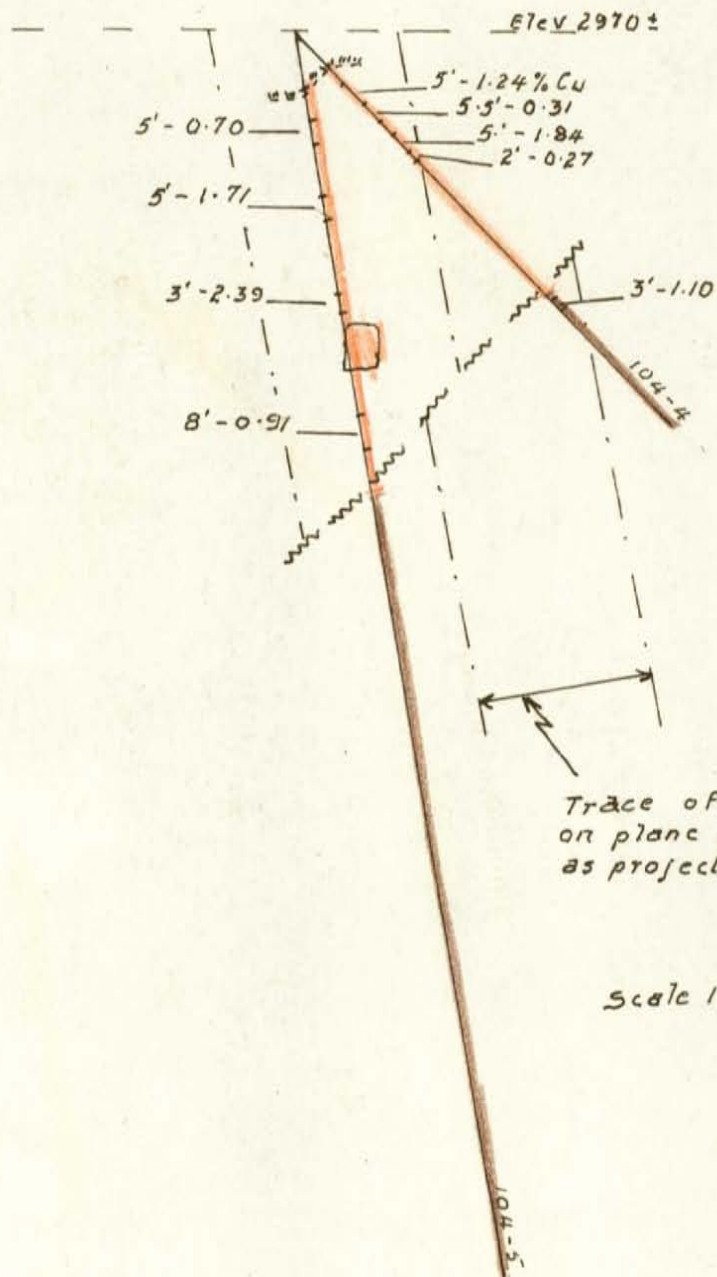
Elev. 2974



Trace of ore zone on plane
of ПДН 104-3 as projected
from ПДН=12.

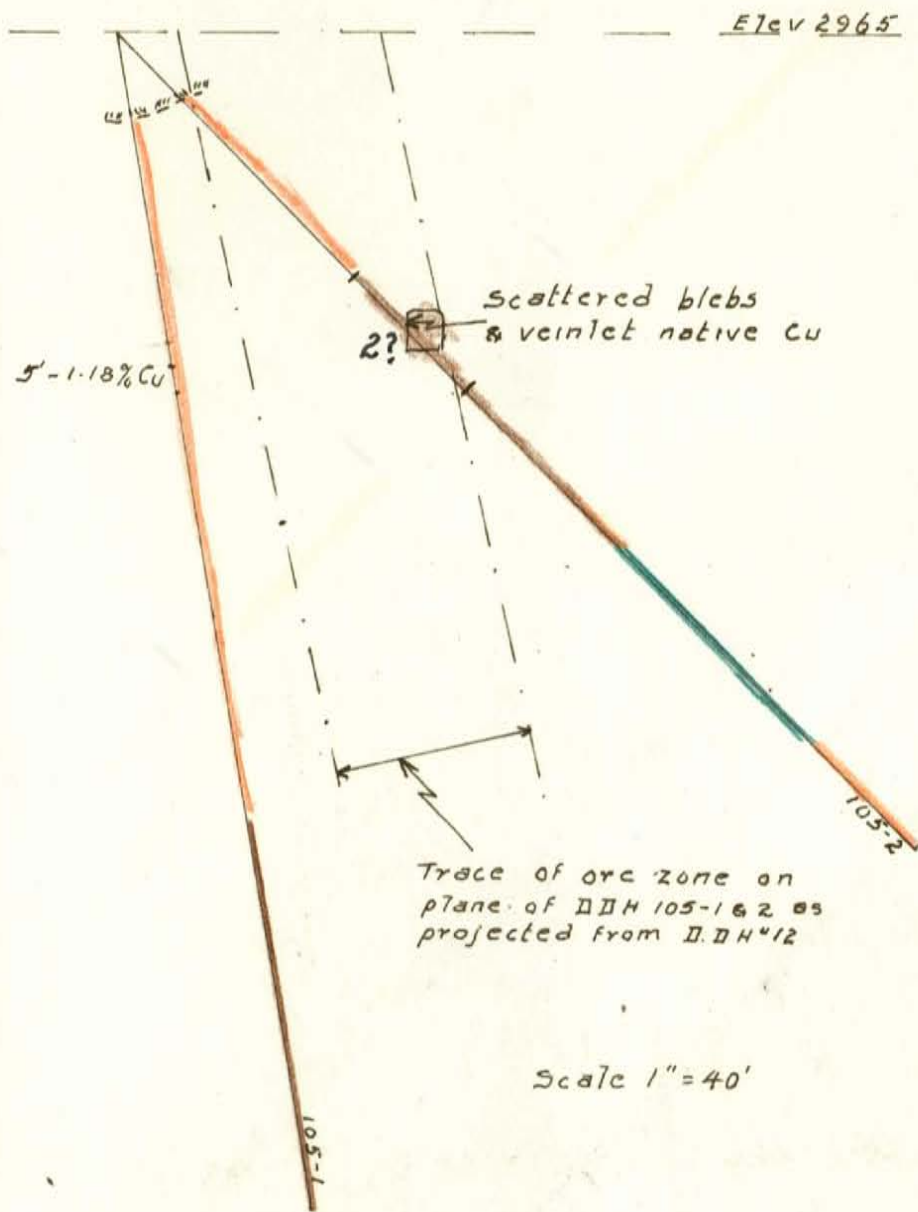
scale 1" = 40'

SECTION "19
ПДН 104-3

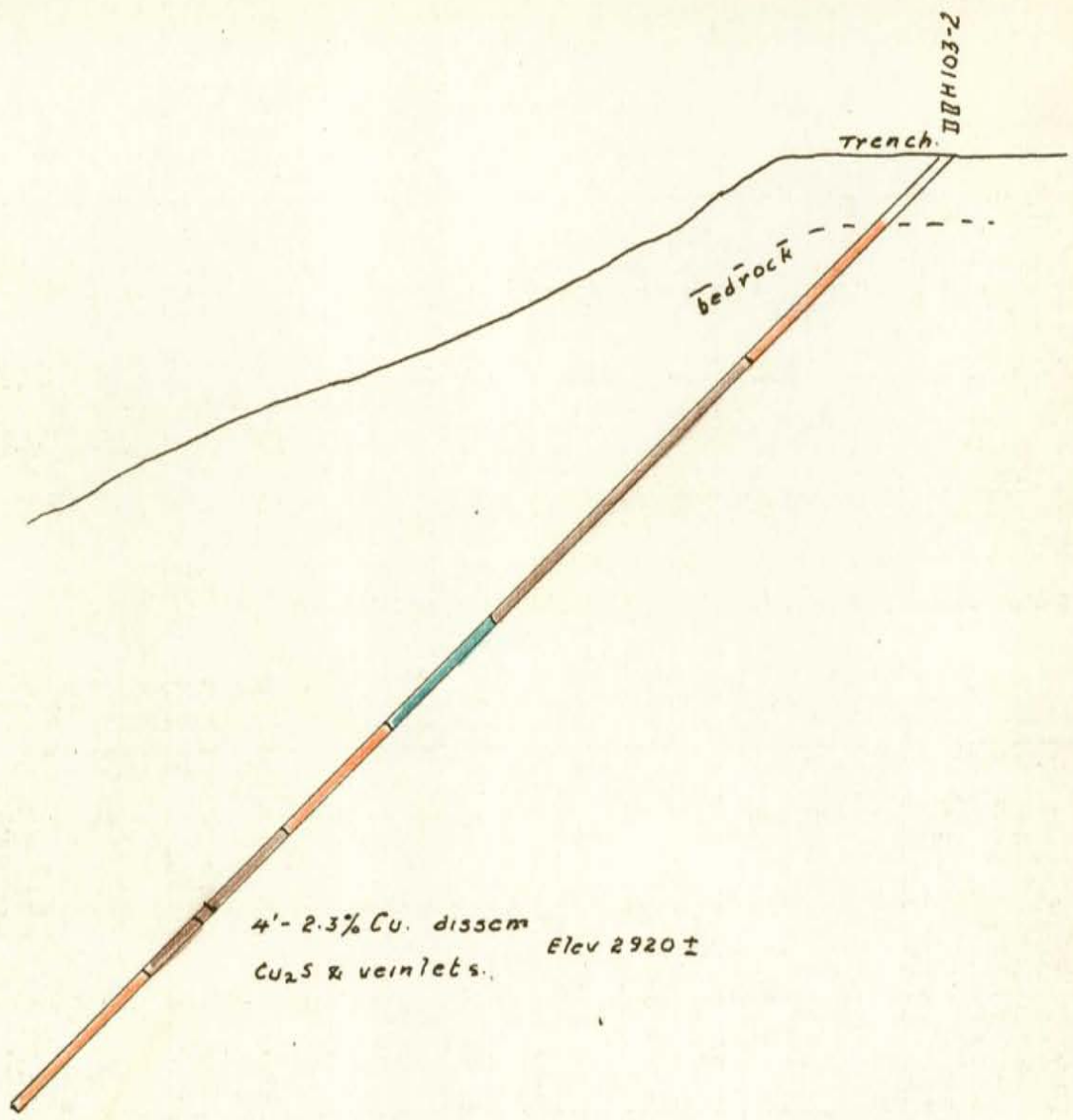


SECTION 20

ППН 104-485



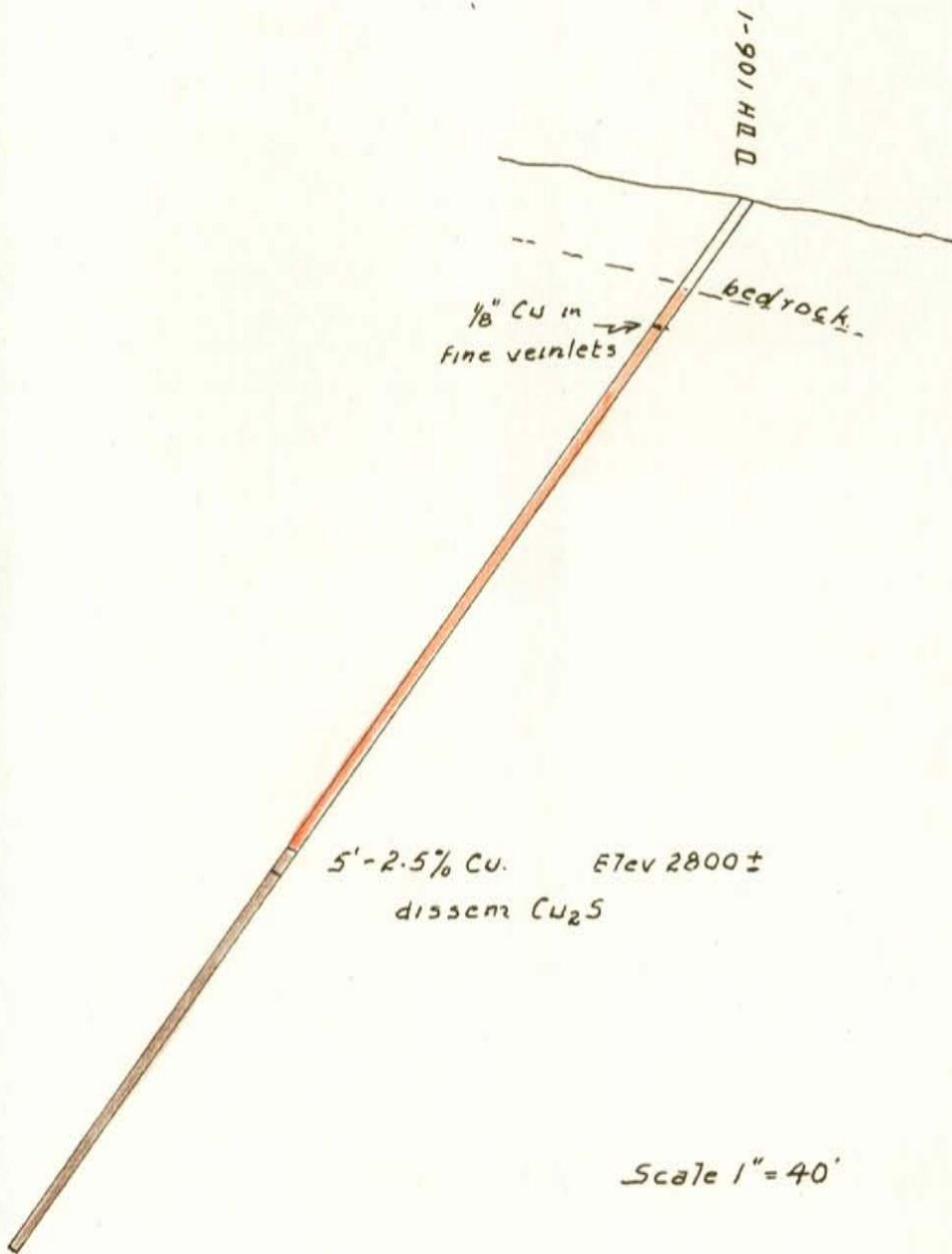
SECTION '21
D.D.H 105-1 & 2



4' - 2.3% Cu. dissem
Cu₂S & veinlets. Elev 2920 ±

scale 1" = 40'

SECTION "22
DDH 103-2



SECTION 23

DTH 106-1

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APPENDIX No. 2

LOGS of DRILL HOLES

Footage	Detail	Sludge Sample	
0 - 15	Porphyritic tuff with white to pale green feldspar crystals broken. Faint pinkish matrix when wet. 14' - 15' broken core.	20 - 30	0.08% Cu
		30 - 40	10.01%
		40 - 50	0.59%
15 - 45	Chloritized porphyritic tuff with feldspars light brown to pink in dark grey matrix which shows small rounded black blebs which may represent either serpentinized olivine. May be amygdaloidal 32.5 - 36 ore zone with heavy copper sparse Cu ₂ S in one or two places and irregular veinlet at 36.		
45 - 71	Porphyritic rock similar to 0 - 15; broken zone at 63'.		
71 - 80	Porphyritic rock with grey matrix showing irregular streaks of chlorite and calcite and some epidote veining. Fault crushing 79.5 - 80.		

Footage	Detail	Sludge Sample	
0 - 30	Grey porphyry type of varying grain size but all highly chloritized. 11 - 13 f.g. grey tuff with sparse irregular f.g. Cu. 13 - 19 dark porphyritic and porous; chloritized volcanic, odd malachite spotting from possible very f.g. Cu ₂ S.	10 - 20	0.10% Cu
		20 - 30	0.00%
		30 - 40	0.51%
		40 - 50	0.23%
		50 - 60	0.29%
		60 - 70	0.23%
		70 - 80	0.13%
		80 - 90	0.51%
		90 - 100	0.46%
		100 - 110	0.10%
30 - 53	30 - 35 badly broken, grey, porous chloritized volc. scattered sparse. fg. Cu. 35 - 40 pinkish porphyry with sparse scattered Cu ₂ S. 40 - 42 greyish porous volc. One grain Cu. 41½. 42 - 46 pinkish to red porphyry, no apparent mineral. Calcite veining 44½ - 46. 46 - 53 grey porphyry f.g. matrix, badly broken. 46 - 52 at 51 very thin streak Cu ₂ S, sparse Cu at 52.		
53 - 73	Greyish tuff, f.g. matrix with black spotty character suggesting serpentized grains of olivine, 53 - 64 badly broken; 64 - 73 blocky.		
73 - 93	Dark grey porphyry varying in texture. 86 - 93 rock takes on a pinkish caste. 78 - 82 broken section, odd grain Cu ₂ S around 76;85;87;92.		
93 - 115	93 - 107 generally pinkish porphyritic tuff of varying texture. 107 rock changes to dark grey f.g. porphyry with black spotty character suggesting serpentized olivine. 93½ - 95 odd irregular Cu ₂ S; 96½ - 99 irregular to fair Cu and odd Cu ₂ S; 102 - 104 irregular thin veinlets and spotty Cu ₂ S; 108½ sparse chalcocopyrite 110.		
115 - 137	Medium grained grey feldspar porphyry tuff.		
137 - 153	Medium grained grey feldspar porphyry tuff.		

Drill Hole # 3

Direction 138°

Dip -68°

Length 144'

Footage	Detail	Sludge Sample	
0 - 29	Dark grey generally f.g porphyry varying locally in texture. Spotty small grains serpentine. Feldspar crystals broken from 20 on. 20½ - 22 irregular sparse f.g Cu.	60 - 70	0.10% Cu
29 - 50	Rock similar; altered olivine more plentiful. From 40 on more chloritized.		
50 - 72½	Dark generally chloritized tuff varying in texture badly broken 59 - 63. Odd copper grain 59 - 62.		
72½ - 95½	Up to 86 a non discript chloritized rock then f.g. faintly porphyritic tuff. Generally broken particularly 73½ - 75; around 78 and 85 - 88.		
95½ - 116	Dark porphyritic tuff varying in texture; very f.g. around 105; from 108 on altered olivine scattered through rock, and matrix takes on faint pinkish to brownish tint when wet particularly from 112 on.		
116 - 138½	116 - 126 greyish feldspar porphyry tuff with f.g. matrix. Epidote veinlets start to develop around 120 and marked development 123 - 126. 126 - 130 badly mashed (fault zone?) oxidized to red hematitic material in places. Crushed zone at 132; 135; 138. From 131 on dark grey f.g. volcanic, irregularly porphyritic with scattered feldspars and altered olivine.		
138½ - 144	138 - 140 crushed zone 6" broken core. At 140 - 141 and 142 - 143 broken core. Rock greyish p.g. volcanic with scattered small grains black serpentine from olivine.		

Footage	Detail	Sludge Sample	
0 - 26	Dark grey fine textured tuff in part porphyritic 0 - 9 badly broken. 14 - 14½ chunky Cu; 14½ - 17 scattered grains of Cu; 17 - 17½ chunky Cu; 18½ - 21 scattered small grains Cu ₂ S.	10 - 20 50 - 60 70 - 80 80 - 90 90 - 100 100 - 110 110 - 120	9.35% Cu 0.96% 4.89% 2.61% 3.48% 2.60% 0.45%
26 - 48½	26 - 35 f.g. grey slightly porphyritic volc, 35 - 48½ f.g. matrix with scattered medium grain feldspars. Also irregular small black grains of altered olivine. When wet has pinkish to brownish caste particularly 44 - 48½.		
48½ - 70½	Appears to take on characteristic of amygdaloidal flow to about 62, varying from brownish to black matrix with irregular white and grey amygdules of varying size. 62 - 70½ rock greyish medium grained feldspar porphyry tuff. Cu ₂ S in grains and forming veinlets at 51; 53; 57½; 58½; 61; 61½.		
70½ - 97	70½ - 74 grey medium grained tuff. 74 - 97 tuff changes to amygdaloidal type vole. 70½ - 74 badly broken pore core; poor core around 76½ - 80. 87 - 92 badly broken, poor core. Thin seam Cu 74; Cu ₂ S 75½; 78; at 79 chunky Cu and Cu ₂ S; at 81½ and 82 Cu ₂ S; at 83 chunky Cu and Cu ₂ S; at 86 Cu ₂ S; 90 - 91½ thin Cu ₂ S veinlets; 91½ chunky Cu; 93 - 94 chunky Cu and Cu ₂ S.		
97 - 129	97 - 109 dark amygdaloidal rock well chloritized 109 - 121 crushed fault zone rock type uncertain. 121 - 129 porphyritic tuff brownish caste. 101½ - 104 very poor core recovery; poor recovery con- tinues to 109. Epidote development 124 - 129. Cu ₂ S at 101; 104; Cu at -104		
129 - 136	Grey tuff with epidote development to 132.		

Footage	Detail	Sludge Sample	
0 - 29½	0 - 14 f.g. greyish porphyritic tuff; 14 - 18 grading into amygdoloidal type. 18 29½ amygdoloidal with dark grey matrix. Core recovery: 0 - 7 = 8"; 7 - 10 = 2½'; 17 - 20½ = 2½'; 20½ - 23 = approx. 2'; 23 - 24½ = 1'; 24½ - 28½ = 2½' 13 - 18 light irregular sparse Cu; 18 - 23 irregular coarse Cu; 23 - 29 heavy slug type Cu with a little Cu ₂ S.	10 - 20 20 - 30 30 - 40 40 - 50 50 - 60 60 - 70 70 - 80 80 - 90 90 - 100	0.42% Cu 10.70% 2.50% 2.34% 7.09% 9.15% 2.06% 3.18% 1.97%
29½ - 50	29½ - 46 f.g. grey matrix with feldspar crystals broken in places and irregularly slightly amygdoloidal. 46 - 50 definite dark grey amygdaloidal volc. 47½ - 50 scattered Cu ₂ S plus some Cu.		
50 - 71	Generally dark amygdoloidal type grading in sections to slightly porphyritic type with dense matrix. 50 - 54 good Cu ₂ S; some Cu at 52; 57; 57½. 62½ - 64½ heavy copper, also 68 - 69½.		
71 - 96	71 - 73 dark amygdoloidal; 73 - 83 dense grey volcanic showing scattered porphyritic texture. 83 - 96 generally but irregularly amygdoloidal. 71 - 72 only 4" core. Small Cu grains 79; 81½; Cu at 83; heavy Cu at 88 - 89½; 91 - 92; 92 - 93 with Cu ₂ S at 95½, mud seam with copper grains.		
96 - 137	96 - 102 f.g. grey volcanic with tendency to porphyritic type. 102 - 122 badly beaten small chunky core rock uncertain. 122 - 137 generally amygdoloidal. 96 - 99½ crushed zone about 2½' core; 99 - 102 about 1' core. 102 - 108 about 6" core; 108 - 114 small fragments practically no core; 114 - 122 about 2' core; 1" of mud at 123'. 134½ - 136 scattered f.g. chalcopyrite.		
137 - 159½	Generally brownish amygdoloidal type with fine grain matrix and greenish to white amygdules. 143 - 153 matrix brown-grey with brown colour due to many small grains of hematitic material.		
159½ - 163	Same rock type as above. Epidote and carbonate veining at 162.		

Footage	Detail	Sludge Sample	
0 - 17.9	0 - 9 f.g dense rock showing some sign of porphyritic texture. 9 - 17.9 dark grey amygdoloidal rock. Core recovery: 3 - 4 = 6"; 4 - 7.3 = 2' or less; 11 - 14 about 80%; 14 - 17.9 about 2'. Some Cu ₂ S at 11½ and 12½; Cu scattered from 13½ - 14; 14½ - 18 heavy grains or specks in broken core.	10 - 20 30 - 40 70 - 80 80 - 90	0.81% Cu 0.37% 0.42% 0.35%
17.9 - 36	17.9 - 27 f.g. tuff slightly porphyritic. At 27 matrix assuming brownish tinge and grades to dark brown amygdoloid from 29 - 36. 20 - 27 badly broken and fractured with carbonate veining 50% recovery approximately. A few fine copper grains at 26; a little Cu ₂ S at 33.3.		
36 - 58½	36 - 45.5 dark grey amygdoloid; 45.5 - 58.5 f.g. matrix with f.g chloritized ferro mag mineral and has general appearance of porphyritic tuff (broken feldspars) but in places a suggestion of amygdoloidal character.		
58½ - 82	58½ - 60½ fault zone. Initial rock looks like f.g. grey porphyry: 60½ - 72 amygdoloidal with dark grey matrix with brownish tinge, increasing to 71' plus green and white amygdoloidal of varying size and quantity. Feldspar crystals broken in part. 72 - 77 72 - 77 appears to lose amygdoloidal character and becomes f.g. rock with brownish caste, but again amygdoloidal. 77 - 82; 80 - 82 dark brown. Odd speck of Cu ₂ S 69 - 71.		
82 - 103½	82 - 86½ deep reddish brown amygdaloid. 86½ - 103½ grey porphyritic tuff with f.g. matrix with chloritized, ferro-mag.		
103½ - 105	Same as 86½ - 103½.		

Footage	Detail	Sludge Sample	
0 - 26½	<p>f.g grey rock well chloritized. Generally poor recovery.</p> <p>0 - 5½ about 8" broken core 5½ - 7½ about 1' broken core 7½ - 9½ 12" to 15" core 13 - 15 6" core 15 - 26 about 50% core.</p> <p>Odd Cu at 5½; spotty heavy Cu 8; 9 - 9½ some Cu₂S in scattered pieces of core 7½ - 9½. 11 - 13 irregular Cu₂S.</p>	<p>0 - 10 10 - 20 30 - 40 40 - 50 50 - 60 90 - 100 100 - 110 110 - 120</p>	<p>3.90% Cu 1.11% 0.19% 0.40% 2.36% 0.21% 0.28% 0.11%</p>
26½ - 48	<p>f.g. tuffaceous rock with porphyritic texture around 32. Brownish caste increasing from 35½ - 48. At 27 odd f.g. Cu and Cu₂S; Cu grains around 29 Cu₂S spotty at 32; 33; 34; 42 - 43; 47½.</p>		
48 - 70	<p>Greyish f.g. tuffaceous rock in part porphyritic with zone of amygdaloidal character 54 - 62 Spotty Cu₂S at 48½; 52; Cu₂S veinlets and Cu 55 - 56½ scattered Cu₂S 59½ - 60½.</p>		
70 - 101½	<p>Grey tuffaceous rock chloritized and badly broken. Carbonate development with stringers running down core 92 - 96. Spotty grains of Cu 94; 97½; 101.</p>		
101½ - 121	<p>Grey tuffaceous rock in part porphyritic. Irregular carbonate veining 102 - 102. Crushing 108 - 109; 110 - 111. Fine grains of Cu at 102; 105; 105½; 106½ - 107; 108; 113½ these are very small and acattered. Two coarse grains at 113½.</p>		

Footage	Detail	Sludge Samples	
0 - 27	0-25 dark grey porphyritic type; 25 - 27 rock grades into amygdaloidal type with very small dark green amygdules, but broken feldspars present. Odd piece of Cu around 4' and core looks as the Cu ₂ S could have been rubbed on. Some Cu at 9', a speck or two at 12'. Copper veinlets around 20' plus some Cu ₂ S. Some Cu at 23'.	0 - 10 10 - 20 20 - 30 30 - 40 40 - 50 50 - 60 60 - 70 70 - 80	0.04% Cu 0.17% 0.07% 0.05% 0.12% 0.04% 0.05% 0.05%
27 - 54½	Rock dark grey amygdaloidal (??) type highly chloritized. Some feldspars with brownish caste. Rock has generally mealy appearance; 30 - 35 badly broken with 6" core; 35 - 37 about 1' broken core.		
54½ - 81	54½ - 61 mottled amygdaloid with brownish caste to matrix. 61 - 76 badly broken particularly 72 - 76 with less than 1' of fragments. 77½ - 81 dark grey volc. with dark green spotting and lenses suggesting amygdaloid with very f.g.l Cu sparingly disseminated. 60- 70 practically no sludge.		
81 - 107½	81 - 88 f.g. grey rock 88 - 107½ rock changing to medium grey f.g. matrix with marked development of dark green irregular shaped grains that may be serpentine amygdules. 84½ - 90 badly broken about 3' core. 81 - 83 fine copper scattered in broken core.		
107½ - 130	Similar rock. Around 122 green grains or blebs fade out and replaced by greyish fragments or grains. Some look like broken feldspars but large % seem very irregular and rounded. Scratch fairly easily (could be altered feldspars?) Cu ₂ S at 108; Cu at 129½		
130 - 152	Same rock to end of hole. Cu ₂ S veining at 147½ and 148½.		

Drill Hole # 6

Direction 030°

Dip -45°

Length 144'

Footage	Detail	Sludge Samples	
0 - 26	Porphyritic tuff with feldspars tending towards greenish hue. Broken core. 3 - 7 $\frac{1}{2}$ ' = 18" core broken sections around 16'; 18 - 19; 20 - 21 but recovery good. Cu grains 22 and 25; 1/32" Cu veinlet 24 $\frac{1}{2}$	10 - 20 20 - 30 70 - 80 140 - 144	0.27% Cu 0.09% 0.49% 0.09%
26 - 47	Greyish porphyritic tuff, broken core in sections 33 - 35 $\frac{1}{2}$ about 8" to 10" core; 38 - 40 about 12" core 40 - 42 about 18"		
47 - 72 $\frac{1}{2}$	Same greyish tuff; broken core, 56 $\frac{1}{2}$ to 58 $\frac{1}{2}$ less than 12" core; 58 $\frac{1}{2}$ - 61 $\frac{1}{2}$ about 3" to 4" core; 61 $\frac{1}{2}$ - 63 roughly 12" core. Cu and some Cu ₂ S around 69 $\frac{1}{2}$		
72 $\frac{1}{2}$ - 96 $\frac{1}{2}$	Same greyish porphyritic tuff. 91 $\frac{1}{2}$ - 94 about 70% recovery. 73.5 - 74 Cu and Cu ₂ S in fair amount.		
96 $\frac{1}{2}$ - 121	Greyish tuff, porphyritic in part. 109 $\frac{1}{2}$ - 111 about 6" core; 111 - 119 broken and about 80% recovery; 119 - 120 only 3" core and badly broken to 121. Recovery fair 120 - 121.		
121 - 141 $\frac{1}{2}$	f.g. greyish porphyry in part with brownish cast in places when wet. Generally broken core. Badly broken 121 - 124; 133 $\frac{1}{2}$ - 136 broken and 80% recovery. Cu grain at 140 $\frac{1}{2}$; Cu veinlet at 141.		
141 $\frac{1}{2}$ - 144	f.g greyish volc. porphyritic in part, broken core.		

Footage	Detail	Sludge Sample	
0 - 27½	Porphyritic tuff with faint brownish tinge when wet. Rock slightly chloritized towards 27½. Recovery 0-8 about 50%; 14-16 about 60%; broken core 16-27½ with fair to good recovery except 24-26 about 50% Small grains Cu & Cu ₂ S at 11'	10-20 60-70 100-110 110-120 120-130 130-140 140-150	0.04% Cu 0.03% 0.04% 0.04% 0.05% 0.19% 0.05%
27½-50	Same porphyritic tuff varying in texture. Generally broken core with 70-80% recovery		
50-71	Rock same as above, blocky core about 80% recovery. Quartz veinlet 54'; Cu at 61; at 64 looks like some fine Cu and Cu ₂ S		
71-93	Same rock as above with fair to good recovery. Broken sections 77-78; 85-87		
93-117½	Same porphyritic tuff to 98. Badly broken 98-99 and character changing to uneven greyish fine grained texture to matrix. 104½-106 about 4" core; 106-109 about 1'; 109-116 rock changes to f.g. dark greenish rock with hematite streaking		
117½- 145	117½ - 136 character varies markedly showing crumbling appearance in places while maintaining porphyritic tuff type with faint brownish tinge. Badly broken 133-136. 136-145 rock changes to f.g. dark greyish type with fine black specks. Around 133 irregular very fine sparse flecks of Cu.		
145-151	Fine grained greyish rock with fine black specks; chloritized. shows very fine grained Cu irregularly and sparingly disseminated		

Footage	Detail	Sludge Sample	
0 - 27½	Greyish porphyritic tuff. 0-5 only 6" broken core; broken around 12; 14-16 about 6" broken core; 24-26 about 12" core	50-60 60-70 70-80 100-110	0.24% Cu 0.10% 0.22% 0.08%
27½ - 49	Grey porphyritic tuff	110-120 120-130	0.14% 0.09%
49 - 73	Greyish porphyritic tuff with brownish tinge when wet Cu at 56; 57; spotty veinlike type to 57½; sparse Cu & Cu ₂ S at 61 & 62 in narrow veinlet form. One grain Cu at 72	130-140	0.08%
73 - 94½	Porphyritic tuff. 82-85 badly broken with less than 18" core. 74½ veinlet of Cu ₂ S		
94½-114½	Generally greyish porphyritic tuff. Cu in thin veinlet at 106½; 111½; two coarse grains at 112½; fine Cu & Cu ₂ S at 113; Cu at 113½; fine scattered Cu 114-114½		
114½ -138	Greyish porphyritic tuff. Broken core 130-132 with less than 12" core. One grain Cu at 125; very f.g. Cu at 130; 132 and on either side of broken section		
138-153	138-139½ grey porphyritic tuff. 139½-153 very f.g. chloritized grey tuff. core badly broken 146-149 with about 18" core; 150-153 about 4" core A few very fine specks Cu at 145; 145½ and 149		

Drill Hole #8

Direction 345°

Dip -10°

Length 138'

Footage	Detail	Sludge Sample	
0 - 26	Greyish porphyritic tuff with brownish caste when wet	80-90	0.09% Cu
26 - 49	Same rock One spot Cu at 35½	130-138	0.05%
49 - 72½	Same rock type		
72½-95	Porphyritic tuff with feldspar crystals around 1/16" to 1/8". Broken core 94-95. Cu and some Cu ₂ S in veinlet form at 88 and 89. Sparse Cu at 92.		
95-115½	Greyish porphyritic tuff. Broken 95-97 and 107-109 with about 50% recovery		
115½-138	Greyish porphyritic tuff varying in texture. 136-138 broken with about 6" core. At 134½ a 1/32"- 1/16" copper veinlet		

Drill Hole #9 Direction 345° Dip -30° Length 180'

Footage	Detail	Sludge Sample	
0 - 29	Grey porphyritic tuff with varying texture	70 - 80	0.45% Cu
29 - 51	Same rock type. Two Cu grains at 31½; one at 48	120-130	0.06%
51 - 73½	Same rock type. 63-65 broken with about 15" core At 62 Cu in epidote veinlet	130-140	0.08%
73½ - 98	Same rock type. 91½-93½ badly broken with 18" core Two narrow (1/8") Cu veinlets at 73½; one grain at 90½		
98 - 120½	Generally f.g. tuff with varying porphyritic sections. 116-118 about 15" core. Cu grains at 116		
120½-145½	Fine grained grey tuff porphyritic in part. Core generally broken. 125-128½ less than 12" core. Three small broken pieces of Cu ₂ S at 128½. Cu at 135 in veinlet form		
145½-174	Fine grained tuff badly broken. 149-154 about 6" core; 157½-160 less than 15" core. 164-166 about 12" core; 169-172 about 18" core		
174-180	Fine grained grey tuff; broken core about 60% recovery		

Drill Hole #10 Direction 180° Dip -35° Length 135'

Footage	Detail	Sludge Sample	
0 - 31	Fine grained grey porphyritic tuff with faint brownish caste when wet. 7-10 about 1' core; 10-12 about 18"; broken around 17'; shear section at 31 narrow Cu stringer at 21	10 - 20 20 - 30 50 - 60 90 - 100 100-110	0.05% Cu 0.09% 0.04% 0.14% 0.10%
31 - 51½	Similar rock with varying development of chlorite. A few specks of Cu in epidote around 49¾		
51½ - 71	Same porphyritic rock type; 57½-61 about 18" core A few grains of Cu at 51½		
71 - 93	Similar rock generally blocky core		
93 - 120½	At 94 rock changes to one with marked development of chlorite apparently replacing augite??. This continues to 108 and then back to greyish porphyritic tuff. 116½-120½ about 2' core. (116½-118½ about 4") Heavy Cu at 95; fair Cu 100-101½		
120½-135	Fine grained tuff slightly porphyritic in places. badly broken. 121½-125½ about 18" core; 127-129 about 6"; 130-135 less than 6" core.		

Drill Hole #11 Direction 205° Dip -35° Length 145'

Footage	Detail	Sludge Sample	
0 -29½	0 -27 grey porphyritic type. 27-29 grey tuffaceous type with much chlorite replacing earlier ferro-mag. Core broken at 12' & 13½' 17-19 only 1' core Cu grains at 6; Cu ₂ S at 21; 23; 27½-28. In places some metallic has been rubbed on core; also possibility of Cu ₂ S.	8 - 10 20- 30 30- 40 60- 70 100-110	0.04% Cu 0.16% 0.32% 0.05% 0.15%
29½-53½	29½-40 chloritized rock as above. 40-53½ grey tuffaceous rock irregularly porphyritic. Generally poor core. 30-31½ about 1'; 31-34 about 2'; 36-40 badly broken less than 3'; 40-45 about 2'; 45-51½ poor core; 51½-53½ about 6" core Cu at 30; Cu ₂ S at 38½; Cu at 38½; Cu ₂ S at 40; Cu at 36½ disseminated.		
53½-82½	Generally f.g. grey porphyritic tuff with matrix well chloritized. Poor core 53-55½; 62-65 less than 1' core; 78-80 less than 1' core Cu at 68½; Cu ₂ S at 65 % 82		
82½-105½	Fine grained grey porphyritic tuff. general fair core but broken. 101-104 less than 1' core. Cu at 102		
105½-134	Same rock badly broken. at 109; 115; 126-134		
134-145	Same rock type badly broken. 134-142 less than 4' core; 142-145 less than 2" core		

Footage	Detail	Sludge Sample	
0 - 30	Porphyritic tuff, faint brownish tinge in places, feldspar crystals greenish hue here and there. 0-5 no core; 22-25 about 12" (23-25 barely 5") 26½-27½ fault gouge; 28½-30 only 6" broken core. ½" Cu veinlet at 13½; 1/16-1/8" veinlet at 14; 1/16" veinlet at 16; 3/8" Cu ₂ S at 18. Spot Cu at 21½	0 - 10 10- 20 20- 30 30- 40 40- 50	0.03% Cu 0.63% 0.17% 0.09% 0.49%
30 - 57	Generally porphyritic tuff; 35½-38 about 8-10" core; 55-57 only 4" core. Coarse scattered Cu 33½-34; at 41 Cu in quartz-calcite veinlet ½" wide followed by broken core. 48½-49 heavy Cu veinlet 3/8"-½" wide; At 53 thin slab Cu but this may have jumped over from 48½-49	NOTE; sludge samples from 50 - 150 should be brought out from property and assayed	
57- 87½	Rock porphyritic tuff with brownish caste and feldspars showing greenish hue. 82-84 rock shows greenish blotchy character.		
87½ -112½	Rock same as above . Broken core at 89 and following 6" core has Cu. rubbed on. Broken at 90.		
112½-135½	Similar porphyritic tuff. Broken section 113-113½; core at 114 clean but from 114-117½ core has copper rubbed on consistently for 2'; at 115 & 116 there appears to be some Cu ₂ S rubbed on along with the copper. Around 117½ core badly broken with one piece well marked with copper rubbed on. 3" green gouge at 133, broken at 135.		
135½-161	Fine grained porphyritic tuff with varying texture. From 152 on porphyritic texture fading out. Core broken but fair recovery except 149-152 with only three small pieces core.		
161-179	Same rock type. blocky core but fair recovery		
179-197	179-184 same rock type with varying texture. Core broken; 184-187½ about 2' core; 190-193 about 18" core; 195-197 about 18" core		

Footage	Detail	Sludge Sample	
0 -24	Greyish porphyritic tuff with varying texture of matrix. In places speckled with chloritized ferro-mag (14-24). Brownish section 18-24 one speck Cu at 9½	100-110	0.04% Cu
		110-120	0.05%
24 - 44½	24-28 same brownish section grading back to greyish porphyritic rock with brownish tinge when wet. chloritized ferro-mag common. 30-38 broken and blocky core but fair to good recovery.		
44½-68½	Similar grey tuff, broken. 50-54 about 1' core; 56-57 about 3-4"; 60-62 about 15"		
68½-91	Similar grey porphyritic tuff with varying chlorite development. Good recovery.		
91 -116½	91-95 similar rock. 95-98 rock changing to brownish matrix no chlorite. 98-102 definite brown matrix. 102-116½ dark brown amygdaloidal with varying texture. Colour varies from chocolate to brownish black Fine pyrite 102-103. Narrow Cu veinlet at 97.		
116½-140½	116½-129½ grey amygdaloid with chlorite speckled through matrix. 129½-140 hematite grains in matrix and 2" to 3" hematite zones here and there. Rock looks more like tuff than flow rock. 129½-140 about 7' core.		
140½-165	140½-141½ fault zone with 10" brick red gouge adjacent to 141½. 141½-144 about 1' poor core. 144-165 amygdaloidal varying colour to matrix. Amygdules calcite? & serpentine? irregular through rock		
165-176	Amygdaloidal with dark grey matrix. Amygdules dark grey and white		

Drill Hole #14 Direction 001° Dip -52° Length 66'

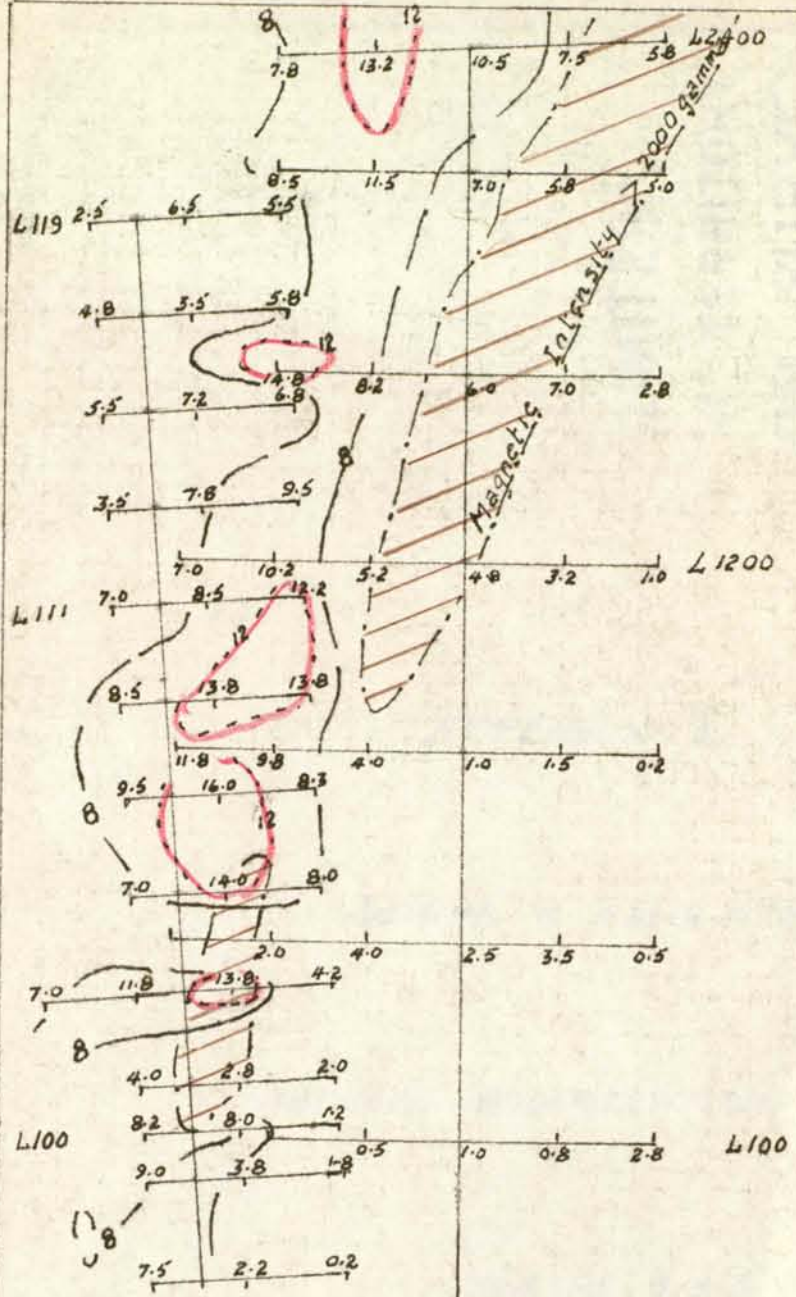
Footage	Detail	Sludge Sample
0 - 38 $\frac{1}{2}$	Fine grain porphyritic tuff chloritized and badly broken. Poor core. 36-38 gouge zone. Possible Cu ₂ S 14-17 ??	
38 $\frac{1}{2}$ - 66	Same rock type badly broken. 38 $\frac{1}{2}$ -45 about 4 $\frac{1}{2}$ ' core; 45-48 about 18"; 48-50 about 1'; 50-54 $\frac{1}{2}$ about 18"; 54 $\frac{1}{2}$ -56 about 1'; around 56 sandy and crushed. 56-66 about 1' with nobby pieces and sand	

Hole stopped due to caving

Footage	Detail	Sludge Sample	
0 - 41	Fine grained porphyritic tuff brownish tinge to matrix towards 41. Badly broken. 0-5 about 1' core; 5-10 about 2'; 10-15 about 2½'; 15-20 about 2' with fault gouge at 17; 22-30 nobby pieces with less than 1' core; 30-33 about 2'; 33-41 about 4'	80 - 90 90 - 100 140- 150 170- 175	0.58%Cu 1.01% 0.21% 0.40%
41 - 79	41-50 f.g. porphyritic tuff with brownish tinge to matrix. On fracture surfaces blotchy green to reddish brown. 50-79 amygdaloidal character develops, matrix darkening to browns with hematite grains and streaks noticeable. In places rock dark chocolate brown.	NOTE; sludges 70-80 and 100-140 and 150-170 should be brought out for assaying	
79 - 101	Amygdaloidal flow varying in colour and texture. Amygdules white and green. 95-101 marked hematitic development in streaks and blotches. Odd speck Cu ₂ S at 85; 88-89; fairly common 94-101		
101 - 126½	101-110 amygdaloidal; 110-124 apparently changes to porphyritic type with matrix brownish tinge. 124-126½ amygdaloidal with matrix grey speckled with dark grains and hematitic material. 114-117 about 18" core; 117-119 about 1'; 119-121 about 1'; 118-124 fault gouge zone with a few fragments blotchy red with a little Cu ₂ S		
126½-157	Amygdaloidal to 148 with speckled grey matrix. Rest very badly broken but apparently amygdaloidal. 130½-134 about 18" core; 134-137 apparently no core, then 3" broken core; 139-139½ fault gouge? 141-144 badly broken and gougy; 148½-151 broken, epidote developed in core fragments; 152-157 about 3½' core 141-144 two fragments show Cu ₂ S; at 151 three short pieces show Cu ₂ S		
157 - 175	Amygdaloidal with matrix varying in colour and texture. Broken 161½-162; and 164-175. badly broken with about 1' core. Blotchy red matrix with dark green amygdules. no Cu ₂ S observed. Some Cu ₂ S at 158 and 161-161½		

Footage	Detail	Sludge Sample	
0 - 31	Fine grained porphyritic tuff with matrix well chloritized in small grains. 0-4 no core; 4-7 $\frac{1}{2}$ about 2 $\frac{1}{2}$ '; 7 $\frac{1}{2}$ -9 about 9"; 9-10 $\frac{1}{2}$ about 6"; 11-13 about 1'; 18-30 about 6 $\frac{1}{2}$ ' Cu at 4; Cu ₂ S at 5; Cu 6-6 $\frac{1}{2}$; Cu ₂ S at 12 $\frac{1}{2}$ & 16 $\frac{1}{2}$; Cu at 23 $\frac{1}{2}$ -26; 28 $\frac{1}{2}$ and 30	0 - 10	0.05% Cu
		10 - 20	0.18%
		20 - 30	0.61%
		30 - 40	0.19%
		40 - 50	0.18%
		50 - 60	0.18%
		60 - 70	0.31%
31 - 55	Same rock type, broken core at 32-33 & 41-42; 44 $\frac{1}{2}$ -47 about 2' core. Finely disseminated Cu & Cu ₂ S 31-34; 39; 41 $\frac{1}{2}$; 42; 42 $\frac{1}{2}$ -44 $\frac{1}{2}$; Cu at 46-47; 49 $\frac{1}{2}$; 53 $\frac{1}{2}$ -54	80 - 90	0.48%
		100 - 110	0.67%
55 - 79 $\frac{1}{2}$	Same rock with varying texture. 56-58 about 1' core; 60-62 about 18"; 62-64 about 1'; 72 $\frac{1}{2}$ -73 $\frac{1}{2}$ about 6". Cu irregular 55-58; heavy Cu at 61 $\frac{1}{2}$; Cu grains 69.		
79 $\frac{1}{2}$ -101 $\frac{1}{2}$	Same rock type with f.g. matrix taking on a "salt & pepper" character. Good core. Cu ₂ S at 81 $\frac{1}{2}$; heavy Cu at 82; copper rubbed on at 97		
101 $\frac{1}{2}$ -126 $\frac{1}{2}$	101 $\frac{1}{2}$ -124 similar rock type with brownish tinge developing in matrix near 124; 124-126 $\frac{1}{2}$ definite amygdaloidal rock with brownish matrix Good section of Cu & Cu ₂ S 105-110; a little Cu ₂ S at 125.		
126 $\frac{1}{2}$ -152	126 $\frac{1}{2}$ -137 amygdaloid with deep brown to red matrix. Amygdules varying from white to green. 137-152 few if any amygdules with matrix showing "salt & pepper" appearance. Matrix brownish tone due to hematitic mineral. Broken core 143-146		
152-176	Similar rock type amygdaloidal		
176-200	Similar amygdaloidal rock with matrix varying in colour brownish to grey depending upon amount of hematitic grains in matrix. Amygdules dark green. Mud seam at 187. From 191 on matrix gradually takes on greyish colour and becomes grey around 195		





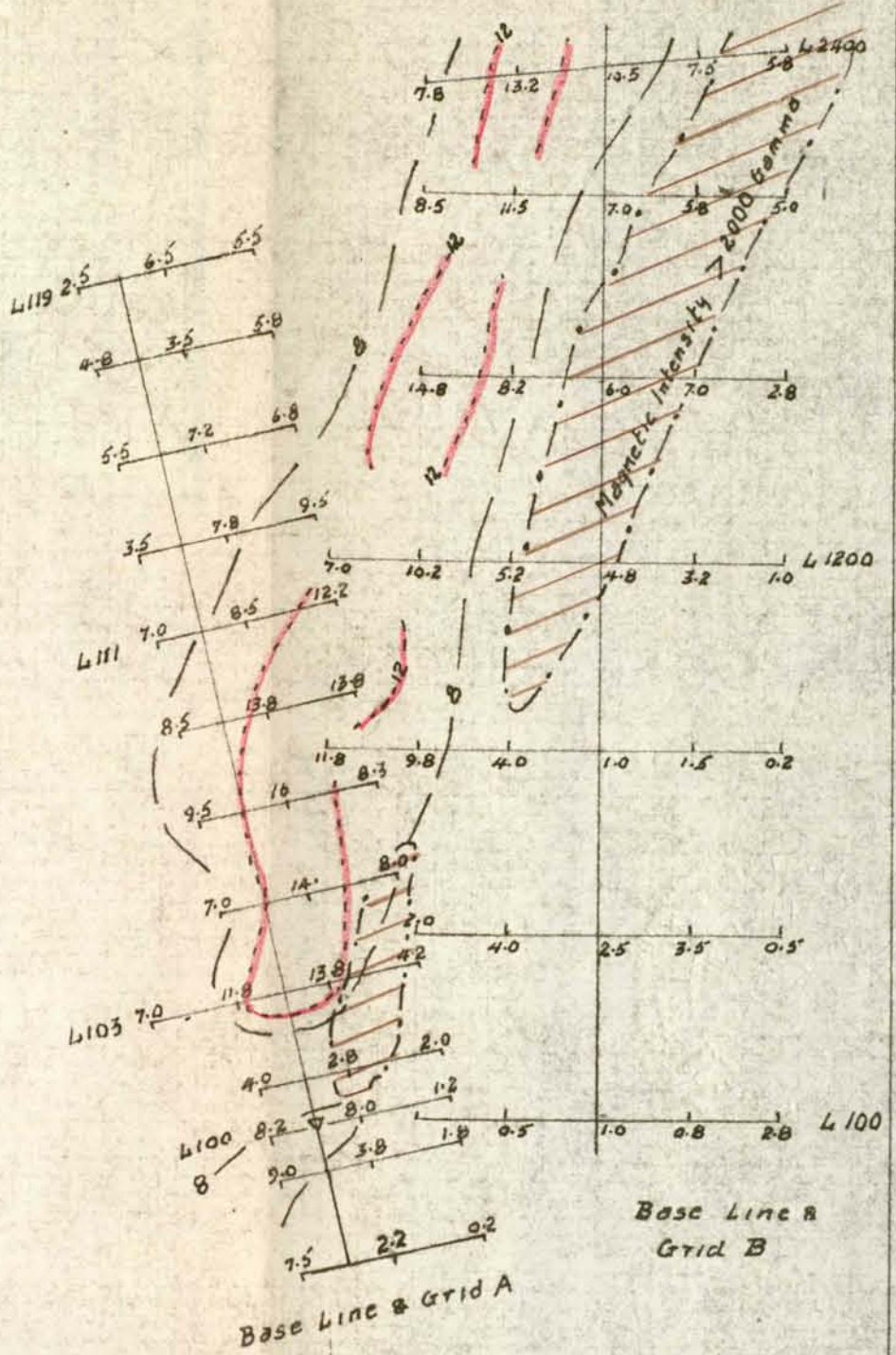
Base Line & Grid A

Base Line &
Grid B

Induced Polarization Survey showing
8 & 12 millisecond chargeability contours
as plotted by SEIGEL & ASSOCIATES
July - August 1968.

NOTE
Base Line & Grid "A" in wrong
position. relative to Base
Line & Grid "B."

Scale 1" = 400'



Base Line &
Grid B

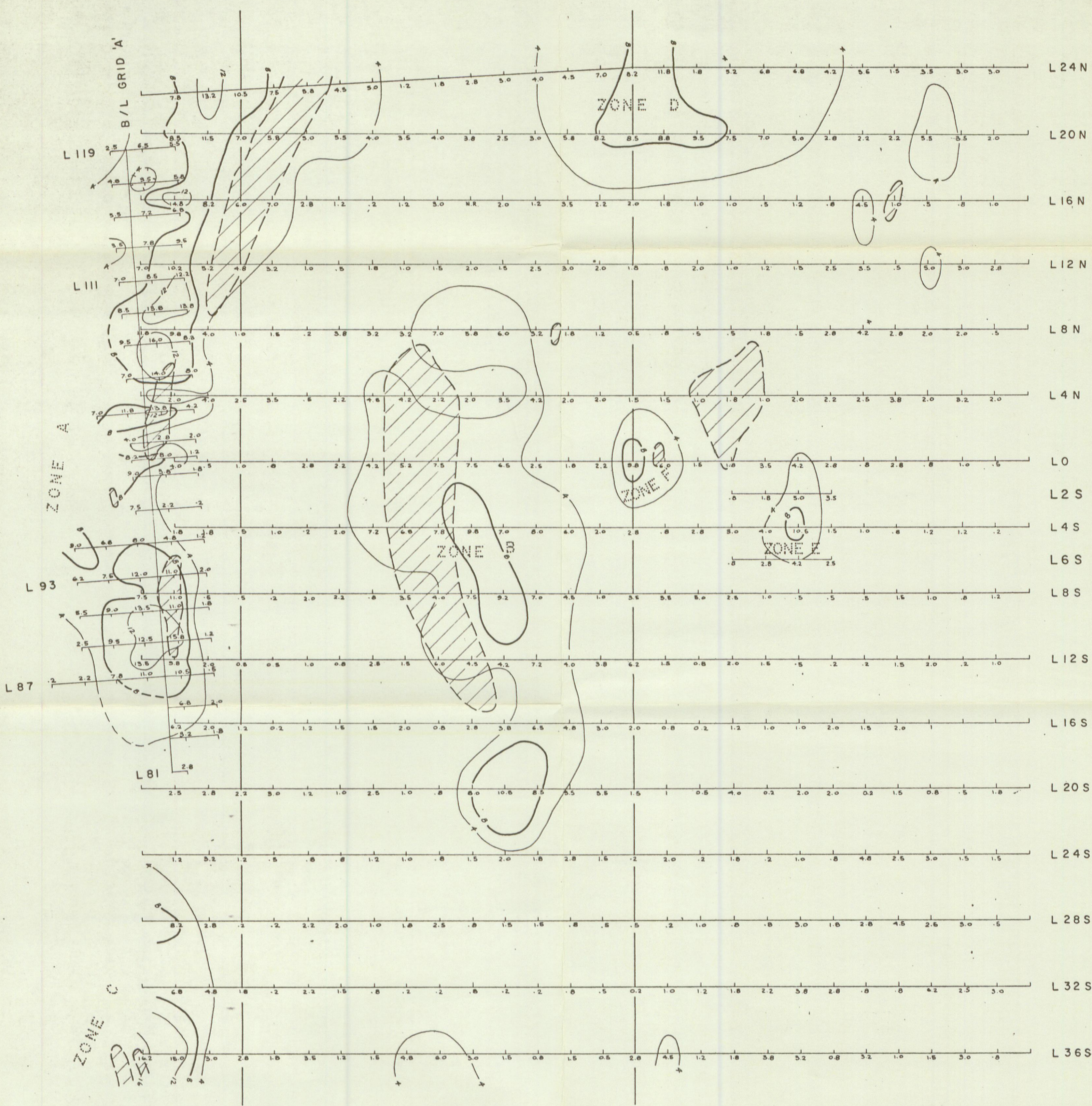
Base Line & Grid A

Replot of SEIGEL & ASSOCIATES
chargeability values on Base Lines
"A" & "B" with Base Line "A" in correct
location relative to Base Line "B."

NOTE
1- Change in 8 & 12 chargeability
contours.
2. Magnetic high (>2000 gammas)
is East of chargeability high.
on North end B/4 "B" & only
partially overlappn. South end B/4 "A"

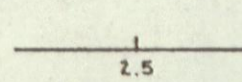
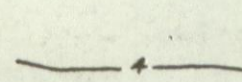
MAP 2

0 4E 8E 12E 16E 20E 24E 28E 32E 36E 40E 44E 48E
 B/L B/L



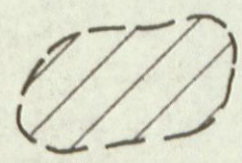
CHARGEABILITY CONTOUR PLAN

LEGEND:

-  LINE TRACE WITH CHARGEABILITY VALUE IN MILLISECONDS
-  CHARGEABILITY CONTOURS 4 MILLISECOND INTERVAL

NOTES:

THREE ELECTRODE ARRAY
 ELECTRODE SPACING $a = 200'$
 SEIGEL MK. VI INDUCED POLARIZATION DATA



AREA OF MAGNETIC INTENSITIES IN EXCESS OF 2000 GAMMAS

TO ACCOMPANY A GEOPHYSICAL REPORT BY J.G. BAIRD DATED AUGUST 22, 1968

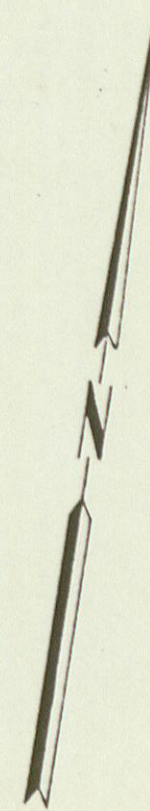
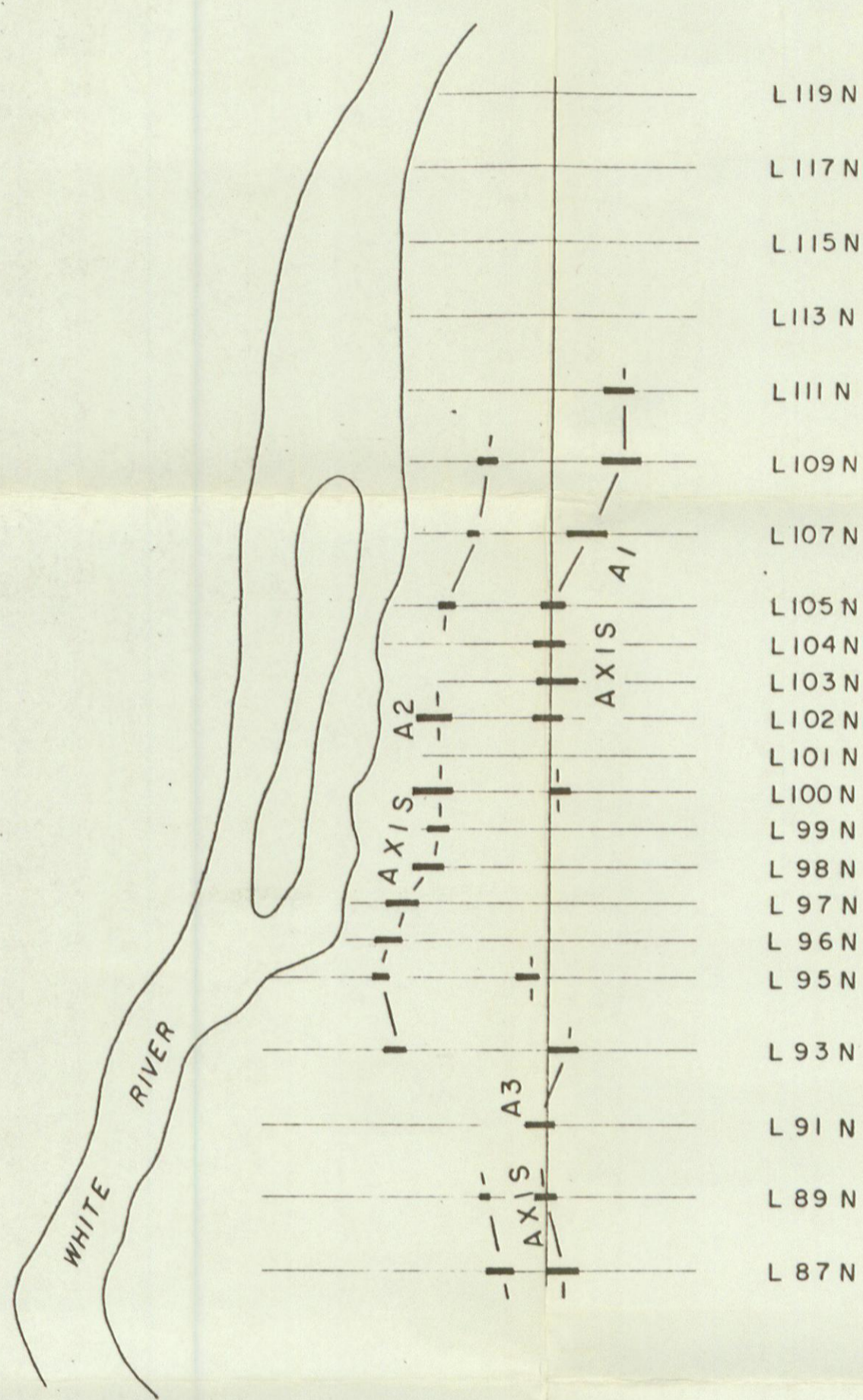
PLATE 2

UNITED PEMETEX LIMITED
 WHITE RIVER AREA, YUKON TERRITORY
 INDUCED POLARIZATION SURVEY

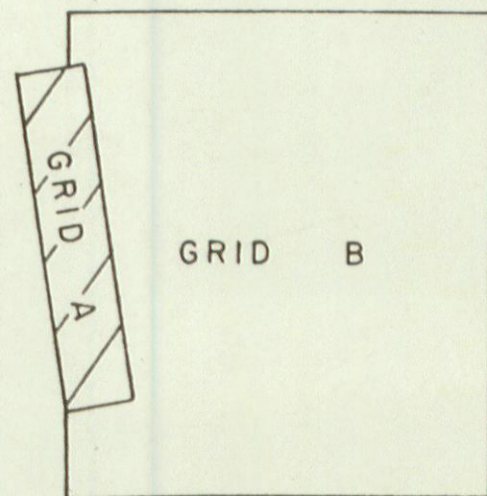
SCALE: 1" = 400'

SURVEY BY SEIGEL ASSOCIATES LIMITED
 JULY - AUGUST, 1968

92 E 96 E 100 E 104 E



L 119 N
L 117 N
L 115 N
L 113 N
L 111 N
L 109 N
L 107 N
L 105 N
L 104 N
L 103 N
L 102 N
L 101 N
L 100 N
L 99 N
L 98 N
L 97 N
L 96 N
L 95 N
L 93 N
L 91 N
L 89 N
L 87 N



LEGEND:

— INTERPRETED CHARGEABILITY
ANOMALY AXIS

PLATE 3

UNITED PEMETEX LIMITED
WHITE RIVER AREA, YUKON TERRITORY
DETAIL INTERPRETATION, ZONE A

SCALE: 1" = 400'

SURVEY BY SEIGEL ASSOCIATES LIMITED
AUGUST, 1968

TO ACCOMPANY A GEOPHYSICAL REPORT
BY J.C. SAUNDERS DATED AUGUST 22, 1968

92E 96E 100E 104E

92E 96E 100E 104E

L 119

L 117

L 115

L 113

L 111

L 109

L 107

L 105

L 104

L 103

L 102

L 101

L 100

L 100 RESISTIVITY

L 99

L 98

L 97

L 96

L 95

L 93

L 91

L 89

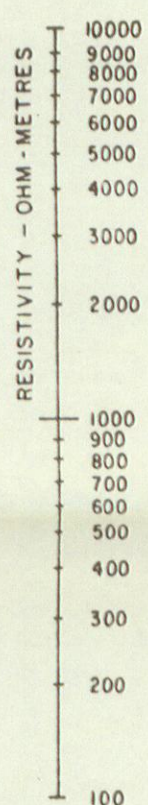
L 89 RESISTIVITY

L 87

L 85

L 83

L 81



LEGEND:

CHARGEABILITY: SCALE 1" = 10 MILLISECONDS

ELECTRODE SPACING

- a = 400' x-----x-----x
- a = 200' .-----.
- a = 100' o-----o-----o
- a = 50' +-----+
- a = 25' •-----•-----•

RESISTIVITY: SCALE 2" = 1 LOGARITHMIC CYCLE, WITH LINE TRACE TAKEN AS 1000 OHM-METRES

ELECTRODE SPACING

- a = 400' x-----x-----x
- a = 200' .-----.
- a = 100' o-----o-----o
- a = 50' +-----+
- a = 25' •-----•-----•

NOTES:

THREE ELECTRODE ARRAY
ELECTRODE SPACING AS INDICATED
MOVING CURRENT ELECTRODE TO EAST OF ARRAY
INTERLINE SPACING NOT TO SCALE
— INTERPRETED CHARGEABILITY ANOMALY AXIS.

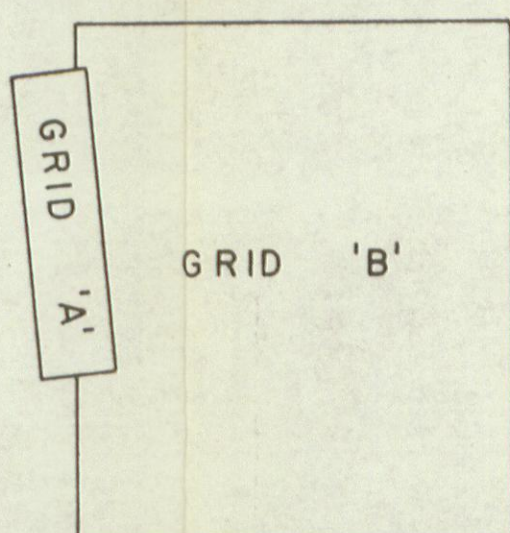


PLATE 5

UNITED PEMETEX LIMITED
WHITE RIVER AREA, YUKON TERRITORY
INDUCED POLARIZATION SURVEY

GRID A
CHARGEABILITY AND RESISTIVITY PROFILE
SCALE: 1" = 400'

SURVEY BY SEIGEL ASSOCIATES LIMITED
JULY - AUGUST 1968

TO ACCOMPANY A GEOPHYSICAL REPORT
BY J. G. BAIRD DATED AUGUST 22, 1968