014152

COMPILATION REPORT

PAY CLAIM GROUP - FORTIN LAKE AREA

Watson Lake Mining District
Yukon Territory

Longitude : 130°30' W
Latitude 62°00' N

N.T.S. 105-G-15,16,

Field Work done
August 1966 to August 1969

By:

W. J. Roberts

CIMA RESOURCES LIMITED

January, 1975

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ILLUSTRATIONS

Compilation Map (1"= 1000') Pocket

Compilation Map (1"= 400') "

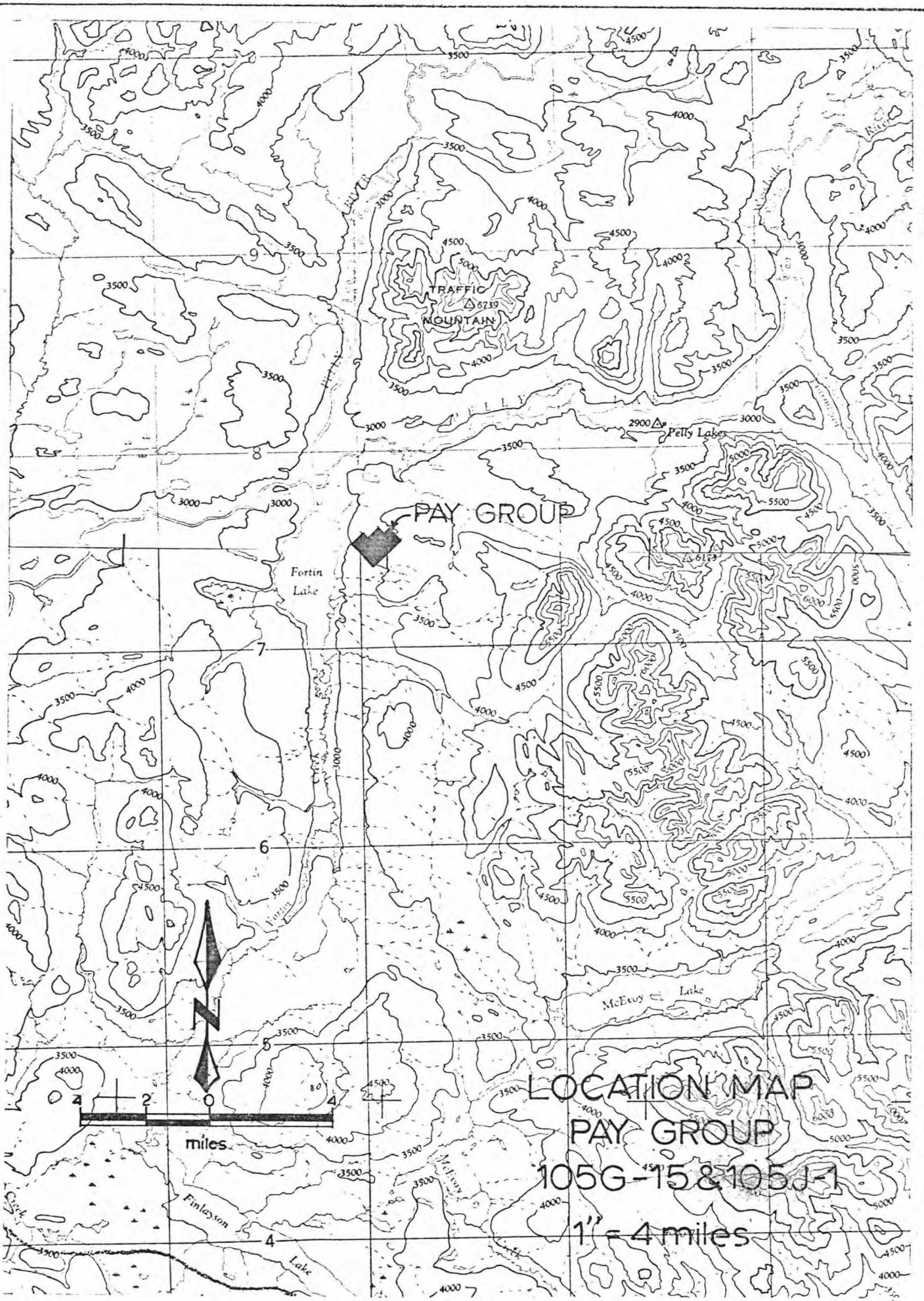
Profile #1, Drill Hole Sections "

Profile #2, Drill Hole Sections "

Drill Holes 19 and 20 Cross Sections "

LIST OF CLAIMS

Claim Number		Grant Number	Date Recorded
PAY	87-90	Y16981-Y16984	November 7, 1966
	92	Y16986	November 7, 1966
	94	Y16988	November 7, 1966
	103-112	Y16997-Y17006	November 7, 1966



LOCATION MAP
PAY GROUP
105G-15 & 105J-1
1" = 4 miles

TELEPHONE 685-4331

CIMA RESOURCES LIMITED
FORMERLY
ATLAS EXPLORATIONS LIMITED
330 MARINE BUILDING
355 BURRARD STREET
VANCOUVER, B.C.
V6C 2G8

COMPILATION REPORT
PAY CLAIM GROUP
FORTIN LAKE AREA

INTRODUCTION

Pay claims 1-16 were optioned from R. McBean of Vancouver, B.C. on August 13, 1966. During late 1966 and early 1967, a further 205 Pay claims were staked due to encouraging results obtained from reconnaissance prospecting and soil sampling. Of the original 221 Pay claims, 16 remain in good standing.

The Pay claims cover a northwest trending zone of zinc anomalies outlining low grade zinc-lead replacement and breccia-filling deposits in the host dolomite. Mineralized dolomite has widths of 10 to 90 feet with grades varying between .5 and 5 percent zinc. Numerous mineralized erratics occurring northwest of the detailed area are of higher grade with visual estimates of up to 20 percent zinc.

Much of the property has been investigated by magnetic, electromagnetic, gravity, geochemical and geological surveys. Cat trenching and diamond drilling were successful in tracing the favourable northwest trending dolomitic host unit containing zinc mineralization. Further diamond drilling is required to fully assess the potential of the property.

LOCATION AND ACCESS

The Pay Group is located directly east of Fortin Lake, approximately 62 miles east of Ross River, Y.T. The main base camp was located on the east shore of Fortin Lake, which is suitable for

float-equipped aircraft from mid-May to mid-October. Aircraft equipped with skis can be used during winter months.

During April, 1967, Atlas Explorations constructed a winter tote-trail from the Ross River - Watson Lake Highway at a point northwest of Finlayson Lake to Pelly Lakes via the Pay Group. This 40 mile tote-trail is suitable for winter travel but requires further construction for all-season use.

SUMMARY OF WORK DONE

Claim staking, reconnaissance sampling and prospecting were undertaken in the fall of 1966.

During the 1967 field season a grid, consisting of 496,000 feet of cut line, was used for controlling geological, geochemical and geophysical surveys. Prospecting outlined zinc mineralization in a silicified dolomite. Hand trenching and 17 Winkie drill holes attempted to evaluate the showing. In early August, cat trenching was employed to trace mineralization but failed due to deep frozen overburden.

During the 1968 field season, 22 diamond drill holes were primarily laid out on two profile lines perpendicular to the trend of zinc geochemical anomalies and regional geologic strike.

Twenty miles of gravimetric survey were completed during 1969. No additional field work has been done to the present.

The following table summarizes expenditures on the Pay Group.

	1966	1967	1968	1969	1970-74	Total
Salaries & Wages	1,370	43,600	23,481	5,892	1,103	75,446
Staking	1,628	1,190				2,818
Consulting Fees	53		2,260			2,313
Surveys-Geochem	3,225					3,225
-Geophysical				5,438		
-Other	1,305		2,635	375		4,315
Drilling		4,266	72,944	539		77,749
Trenching		5,050				5,050
Roads		4,734				4,734
Assays & Geochem	502	9,807	1,686			11,995
Field Equip.& Supplies	157	3,593	8,001	262		12,013
Camp Maintenance	281	25,615	17,215	813		43,924
Fuel	350	2,444	4,489			7,283
Rotary Wing		10,697	6,692	852		18,241
Fixed Wing		745		2,984		3,729
Misc. Transportation	1,212	2,211	18,515	685		22,623
Property Maintenance		4,362	384		4,980	9,726
OEX Pro-rate	2,755					2,755
District Expense	10,864	33,067	19,772	1,469		65,172
Administration	3,167	43,100	48,350	3,693	1,931	100,241
	26,869	194,481	226,424	23,002	8,014	478,790
Mineral Properties Staked		150				150
Option Payment		10,881	15,000	25,000		50,881
	26,869	205,512	241,424	48,002	8,014	529,821

GEOLOGY

The Pay claims, situated in the central portion of the Selwyn Basin, are underlain by a succession of northwesterly trending folded and faulted Cambrian to Devonian metasediments. Structurally, all units are isoclinally folded and plunge roughly 20 to 30 degrees to the northwest. Two major southwesterly dipping normal faults form three major displaced structural blocks.

The oldest unit, Middle-Upper Cambrian, grey, well foliated phyllite comprises the centre block which has a synclinal structure plunging to the northwest. This syncline has a

core of dark brown, massive, cryptocrystalline, Silurian-Devonian dolomite. The southwest block, probably an upward extension of the centre block, is composed of dolomitic shales and sandy silicified dolomites.

The youngest rocks, of probable Devonian age, occur in the northeastern grid area and are composed of banded chert, phyllite and dolomite in an open anticlinal structure plunging 20° to the northwest.

GEOCHEMICAL SURVEYS

Topography and Ground Conditions

Topography in the area of the Pay geochemical anomaly is gently-rolling and slopes westward to Fortin Lake. Local relief is up to 50 feet between northwesterly trending elongate depressions and irregular, elongate ridges. Drainage is sluggish and stream flow is minimal except in major westerly-flowing streams. Ground water level is high and emerges in abundant seepages, swamps and small creeks. Permafrost is erratic in distribution but occurs over about 70 percent of the area. Vegetation consists mainly of dwarf birch with stands of spruce, poplar and tamarack.

Glacial striations are clearly recognizable in the field and on air photos; the direction of glacial movement was east to west.

Survey Technique

Over 6,000 geochemical soil samples were taken at 100 foot intervals over the entire cut grid. In addition, a geochemical research program including soil profile sampling in pits and trenches, bedrock sampling of drill core, stream silt sampling, vegetation sampling and pH determinations was carried out. Soil samples were taken by mattock from the upper B-horizon.

A large area around the Pay Group, extending as far as 12 miles to the southeast, was covered by reconnaissance soil sampling on lines spaced from 1000 ft. to half a mile apart. Sampling technique was identical to that used on the grid and stations were flagged.

Geochemical Results

The northwest trending en echelon configuration of zinc anomalies stretching over 2 miles in length appears to reflect mineralized dolomite. Lead geochemical anomalies coincident with and adjacent to zinc anomalies are likely caused by galena-filled veins and breccias.

Zinc anomalous zones were generally contoured above 1000 ppm Zn with peak values over 9000 ppm. Attempts were made to reach bedrock by test pits, hand and cat trenching as well as Winkie drilling but in most instances frozen overburden thwarted all attempts. However, the cause of anomalies in this area was shown to be predominantly zinc mineralized dolomite blocks occurring as float in phyllite-rich ground moraine. Glacial dispersion of anomalies indicates mineralization should occur beneath or east of the northeastern edge of the anomalies.

GEOPHYSICAL SURVEYS

Survey Techniques

Magnetic surveys were run over the entire grid with a Jalander fluxgate, vertical component instrument. Diurnal drift and gamma conversions were done in a conventional manner.

Two types of electromagnetic survey were used over the Pay grid. Complete coverage has been obtained with a Crone JEM unit using the horizontal loop method, which has been adequate in outlining major conductive areas. A Ronka EM 16 was also used to supply more detailed information over conductors delineated by the Crone JEM.

Twenty line miles of gravity survey were done on selected cross lines throughout the grid area. Gravity readings were taken at every 100 ft. station, which was surveyed with a transit. All readings were adjusted for Diurnal Tidal Drift, Bouguer free-air correction, latitude correction and terrain correction. The resulting residual map was constructed by subtracting the regional gradient from the Bouguer map.

Geophysical Results

Although the magnetometer survey has not outlined any possible areas of economic mineralization, it has aided geological mapping by outlining magnetite-bearing phyllite units.

The electromagnetic survey was successful in locating graphitic-bearing horizons which outline regional structure and more specifically, economically important, stratabound zinc mineralization in adjacent dolomite.

Regional gravity is hard to contour with any precision since each line was surveyed independently. A density contrast caused by 15-20% sphalerite with no other sulphides is approximately 0.5. Large tonnages of this material may not necessarily be distinguishable from overburden effect.

TRENCHING

Only three trenches, hand trenches 1 and 2, as well as cat trench #2, adequately exposed mineralized bedrock. All trenches are located in the area of the initial showing between Lines 40W and 48W. Assays may be noted on the following pages. All other cat trenches failed to reach bedrock.

Hand Trench #1

	Ag	Pb	Zn	Cu	Cd
0 - 5	ND	ND	2.20	ND	TR
5 - 10	ND	.08	.8	.01	.01
10 - 15	ND	.01	1.45	.01	.01
15 - 20	.13	.45	2.15	.01	TR
20 - 25	ND	ND	1.05	.01	.03
25 - 30	ND	.01	2.75	.01	.02
30 - 35	.29	.03	4.30	.01	.01
35 - 40	.28	.01	1.50	ND	.01
40 - 45	ND	ND	1.40	.01	.01
45 - 50	ND	ND	1.95	.01	.01
50 - 55	ND	.05	1.40	.01	.01
55 - 60	ND	.06	1.65	.01	.01
60 - 65	ND	.01	1.55	.01	TR
65 - 70	ND	.16	.89	.01	TR
70 - 75	ND	.04	1.40	.00	TR
75 - 80	ND	.01	2.80	.01	.01
80 85	ND	ND	.83	.01	.02
85 - 90	ND	.01	4.20	.01	.01

From 0 - 90, i.e. 90 feet, Average Zn = 1.95%

Hand Trench #2

	Cu	Pb	Zn
0 - 10	.017	.13	8.4
10 - 15	.01	ND	1.6
15 - 20	ND	.18	3.85
20 - 25	ND	.01	1.35

From 0 - 25, i.e. 25 feet, Average Zn = 3.82%

Cat Trench #2

	South Side					North Side				
	Ag	Pb	Zn	Cu	Cd	Ag	Pb	Zn	Cu	Cd
0 - 5	TR	.1	.6	TR	TR	TR	TR	TR	TR	TR
5 - 10	.02	TR	2.6	TR	.2	TR	TR	.4	.01	TR
10 - 15	TR	TR	TR	TR	TR	TR	TR	1.0	TR	TR
15 - 20	TR	TR	.1	TR	TR	TR	TR	TR	TR	TR
20 - 25	TR	TR	TR	TR	TR	TR	TR	.7	TR	TR
25 - 30	TR	TR	TR	TR	TR	TR	TR	1.3	TR	TR
30 - 35	TR	TR	TR	TR	TR	TR	TR	.7	TR	TR
35 - 40	TR	TR	TR	TR	TR	TR	TR	1.6	TR	TR
40 - 45	TR	TR	TR	TR	TR	TR	TR	2.9	TR	.013
50 - 55	TR	TR	TR	TR	TR	TR	TR	2.3	TR	.01
55 - 60	TR	TR	TR	TR	TR	TR	TR	.6	TR	TR
60 - 65	TR	TR	TR	TR	TR	TR	TR	1.6	TR	TR
65 - 70	TR	TR	TR	TR	TR	TR	TR	5.9	TR	.035
70 - 75	TR	TR	TR	TR	TR	TR	TR	.5	TR	TR
75 - 80						TR	TR	.5	TR	TR
80 - 85						TR	TR	.7	TR	TR
85 - 90						TR	.1	1.9	TR	TR
90 - 95						TR	TR	1.3	TR	TR
95 - 100						TR	TR	.5	TR	TR
100 - 105										
105 - 110										

From 5 - 100, i.e. length 95', Average Zn = 1.42%

DIAMOND DRILLING

The Winkie drill was found to be entirely inadequate for drilling in the Pay area. Although 17 holes were drilled, only 5 holes, WDH #6, #8, #10, #11 and #14 reached bedrock. Most holes were spotted on geochemical anomalies, or rarely on electromagnetic targets, in an attempt to locate the host dolomite unit. In most holes, bedrock was found to be carbonaceous dolomite or argillite.

The following table summarized the better sections intersected in the 1968 diamond drilling program.

Hole	From	To	Length	Assay	Length x Assay	Average Assay (Zn)
PDDH 68-2a	19	23	4	2.1	8.4	
	23	26	3	4.0	12.0	
	26	49	23	2.0	46.0	
	49	57	8	.1	.8	
	57	59	2	Tr	0	19'-59' or 40 ft.@ 1.68%
			40		67.2	19'-49' or 30 ft.@ 2.20%
PDDH 68-4	116	126	10	.65	6.5	
	126	136.5	10.5	.4	4.20	
	136.5	147	10.5	.66	6.93	
	147	157	10	.38	3.80	
	157	166.5	9.5	.33	3.13	
	166.5	176.5	10	.115	1.15	
	176.5	187	10.5	.25	2.62	
	187	197	10	.28	2.8	
			81		31.13	116'-197' or 81 ft.@ .38%
PDDH 68-5	32	37	5	.44	2.20	
	37	43	6	.16	.96	
			11		3.16	32'-43' or 11 ft. @ .28%
	45.5	50	4.5	.58	2.61	
	62	67	5	.18	.90	
	67	72	5	.54	2.70	
	72	79	7	.28	1.96	62'-79' or 17 ft. @ .32%
			17		5.56	
	142	148	6	.46	2.76	
	148	154	6	.28	1.68	
	154	159	5	.12	.6	
	159	163	4	.16	.64	
	163	168.2	5.2	.74	3.85	
	168.2	174.8	6.6	1.50	9.90	
	174.8	179.8	5	.84	4.20	
			37.8		23.63	142'-179.8' or 37.8 ft. @ .62%

Hole	From	To	Length	Assay	Length x Assay	Average Assay (Zn)
PDDH 68-7	96	102	6	5.3	31.8	
	102	107	5	2.6	13.0	
	107	110	3	Tr	0	
	110	114	4	4.0	16.0	
	114	119	5	.6	3.0	
			23		63.8	96'-119' or 23 ft.@ 2.77%
PDDH 68-8	90	105	15	.27	4.05	
	105	110	5	.47	2.35	
	110	115	5	.165	.825	
	115	120	5	.36	1.80	
	120	125	5	.62	3.10	
	125	130	5	.78	3.90	
			40		16.025	90'-130' or 40 ft.@ .40%
PDDH 68-15	47	52	5	8.7	43.5	
	52	57	5	1.25	6.25	
	57	62	5	.30	1.50	
			15		51.25	47'-62' or 15 ft.@ 3.41%
	93	97	4	4.3	17.2	
	97	104	7	2.7	18.9	
	104	109	5	2.2	11.0	
			16		47.1	93'-109' or 16 ft.@ 2.9%
	190	194	4	4.5		4 ft.@ 4.5%
PDDH 68-16	62	67	5	1.3	8.5	
	67	71.6	4.6	2.3	10.58	
	71.6	77.8	6.2	.65	4.03	
	77.8	81	3.2	.5	1.10	
	81	87	6	.27	1.62	
	87	92.6	5.6	3.6	20.16	
	92.6	98.6	6	.47	2.82	
			36.6		48.81	62'-98.6' or 36.6 Ft. @ 1.3%

Hole	From	To	Length	Assay	Length x Assay	Average Assay (Zn)
PDDH 68-19	108	112	4	.27	10.80	
	112	117.6	5.6	4.0	22.40	
	117.6	121.8	4.2	7.4	31.08	
			13.8		64.28	108'-121.8' or 13.8 ft.@ 4.6%
PDDH 68-20	322	326.6	4.6	6.9	31.74	
	326.6	331	4.4	1.45	6.38	
	331	336	5.0	2.45	12.25	
	336	340	4.0	.80	3.20	
			18.0		53.57	322'-340' or 18 ft.@ 2.9%

ECONOMIC GEOLOGY

Three basic types of mineralization occur in the Pay area: small Pb-Zn vein and breccia-filling bodies in banded chert, quartzite and chert-dolomite; Au-arsenopyrite veins; and Zn replacement and breccia-filling deposits in host dolomite. The first two types were found to be of little economic importance.

Zinc mineralization occurs in varying amounts in a thick sequence of interbedded black shales, dolomitic shales and silcified dolomites. Lead mineralization does not appear in significant amounts.

The mineralogy is simple, consisting of pale purplish-brown, fine grained sphalerite and fine grained pyrite with minor galena in a gangue of quartz, calcite, dolomite, siderite and minor gypsum.

The following two modes of mineralization have been observed.

1. As narrow open space filling veinlets, tension gash fillings and breccia fillings.

   The entire section is generally fractured and brecciated. Fillings are composed of quartz-carbonate carrying irregular amounts of fine-medium grained sphalerite. Amount of gangue bears little direct relationship to grade of sphalerite. Mineralization is independent of fracture orientations.

2. As disseminated replacements of altered dolomite.

   Disseminations of fine grained sphalerite occur primarily within moderately silicified zones and interbedded siliceous members.

   Pyrite, the most abundant sulphide mineral, is present as both a primary constituent within the sediments and as a hydrothermal alteration. Where pyritization does occur, sphalerite may or may not be associated.

A northwesterly trending broad open syncline bordered by anticlines on both limbs, the major structural control for mineralization, was outlined by the two profile lines of drill holes. Although mineralization discovered at depth was sufficient to explain the extensive zinc geochemical anomalies, mineralization was also found (Drill Hole 68-19) where there is no zinc geochemical expression. Lead geochemical anomalies remain unexplained due to the lack of galena discovered in drill holes.

Disseminated 'replacement-type' sphalerite mineralization is almost entirely restricted to silicified zones which appear to occur at or near inflection points throughout the folded sequence.

All mineralization encountered in drill holes and trenches is of sub-economic grade. The location of high grade sphalerite float commonly found in pits over a large portion of the geochemical zone remains unexplained.

CONCLUSIONS AND RECOMMENDATIONS

The intense, linear, northwest trending zinc geochemical anomaly, with a length of over two miles, accurately reflects sphalerite mineralization in a thick host of brecciated, silicified, and pyritized dolomite. To date drilling has revealed sub-economic grades of mineralization but has not discovered the source of higher grade zinc float. Extensive glacial transport of float probably explains lack of apparent geochemical expression of near-surface mineralization near Drill Hole No. 68-19. Results to date are encouraging, the Pay Group still has excellent potential for development of an economic large tonnage, low grade zinc deposit. Further drilling is warranted to fully assess the 2-3 mile long belt of zinc mineralization.

The following budget is offered for the proposed drilling program of 5 holes totalling 2,000 feet.

Diamond Drilling

Contract 2,000 ft. of NQ wireline
at overall cost of $30/ft..... $ 60,000

Total direct cost of initial program = $60,000

Respectfully submitted,

W. J. Roberts

January, 1975

GRID LAKE

A

B

C

D

E

PDDH-68-1
PDDH-68-2
PDDH-68-3
PDDH-68-4
PDDH-68-5
PDDH-68-6
PDDH-68-7
PDDH-68-8
PDDH-68-9
PDDH-68-10
PDDH-68-11
PDDH-68-12
PDDH-68-13
PDDH-68-14
PDDH-68-15
PDDH-68-16
PDDH-68-17
PDDH-68-18
PDDH-68-21
PDDH-68-22

LEGEND

- RESIDUAL GRAVITY (milligals)
- 40 ppm Lead } GEOCHEMISTRY
- 600 ppm Zinc }
- PDDH — DRILL HOLE LOCATIONS
- FAULT
- ANTICLINAL AXIS — DEFINED, ASSUMED
- SYNCLINAL AXIS
- ELECTROMAGNETIC ANOMALY
- PROPOSED DRILL HOLES

LITHOLOGY

- 3a - Silicified, brecciated, sandy dolomite
- 3 - Platy dolomite to dolomitic shale
- 2 - Grey to black phyllite

ATLAS EXPLORATIONS LIMITED

PAY CLAIMS COMPILATION MAP

N. T. S.: 105-G-16		SCALE: 1"= 400'
DATE OF SURVEY:		PARTY CHIEF:
DATE DRAFTED: 12-3-71		DRAFTED BY: J.A.D.
DATE REVISED:		REVISED BY:
CHECKED BY:		FIGURE No.:

YUKON GEOLOGICAL SURVEY

This reference scale bar was plotted from the original image. It will scale at the same rate as the image and may be used as a reference for the original size.

L 120 W
L 100 W
L 80 W
L 60 W
L 40 W
L 20 W
PAY LAKE
GRID LAKE
B.L. 0+00
B.L. 50+00 S
FORTIN LAKE
PAY GROUP
61°57' N
130°35' W

DRILL HOLE ASSAY RESULTS

DRILL HOLE	INTERVAL	LENGTH	% Zn.
68 - 2a	19' - 59' 19' - 49'	40' 30'	1.68 2.20
68 - 4	116' - 197'	81'	0.38
68 - 5	32' - 48' 62' - 79'	11' 17'	0.28 0.32
68 - 7	96' - 119'	23'	2.77
68 - 8	90' - 130'	40'	0.40
68 - 15	47' - 62' 93' - 109' 190' - 194'	15' 16' 4'	3.41 2.9 4.5
68 - 16	62' - 98.5'	36.5'	1.3
68 - 19	108' - 121.8'	13.8'	4.6
68 - 20	322' - 340'	18'	2.9

LEGEND

- 4 — GREEN TO GREY BONDED CHERT
- 3 — MEDIUM GREY HOST DOLOMITE TO DOLOMITE SHALE.
- 2 — LIGHT GREY TO BLACK PHYLLITE
- APPROXIMATE GEOLOGIC CONTACTS
- PRESUMED FAULTS
- ANOMOLOUS LEAD GEOCHEM.
- ANOMOLOUS ZINC GEOCHEM.
- RESIDUAL GRAVITY ANOMOLIES
- DIAMOND DRILL HOLES
- CAT TRENCHES
- PROPOSED DRILL HOLES

1000 0 1000 2000 3000
SCALE IN FEET

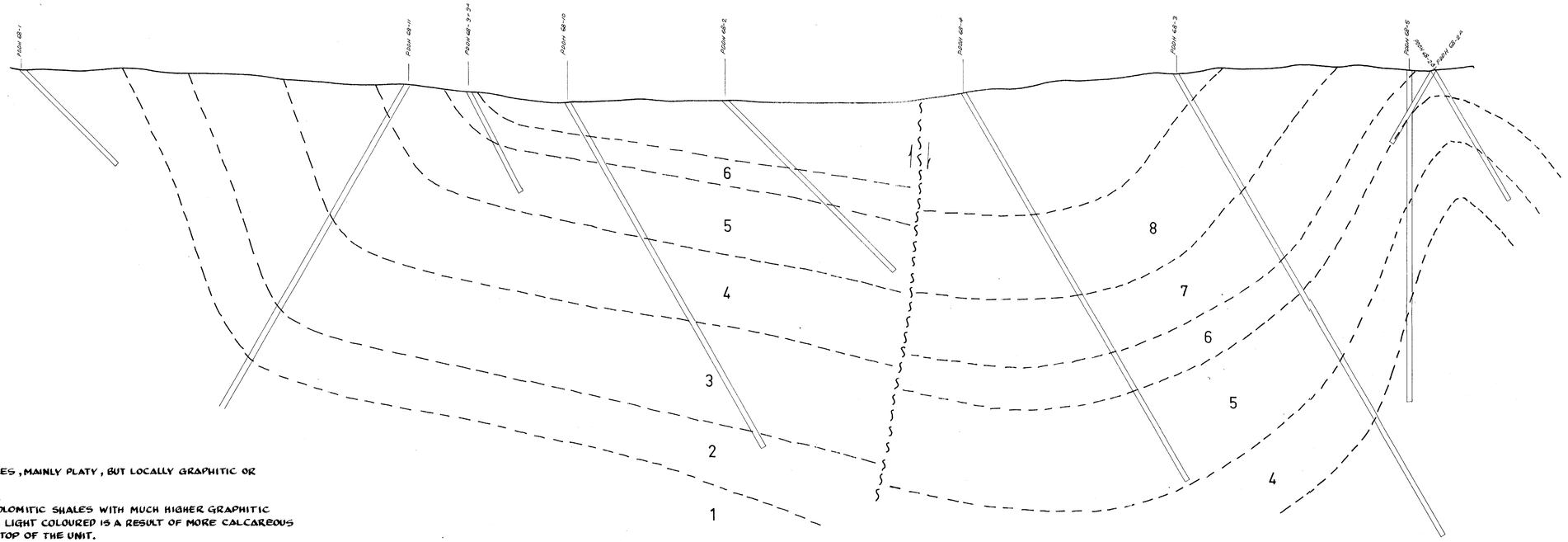
ATLAS EXPLORATIONS LIMITED
SHELDON PROJECT
PAY GROUP
COMPILATION MAP

DATE NOV./ 78 | NTS-105-G-16

inches
0 1 2
0 1 2 3 4 5
centimetres

YUKON GEOLOGICAL SURVEY

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.



LEGEND

8	DARK GREY DOLOMITIC SHALES, MAINLY PLATY, BUT LOCALLY GRAPHITIC OR BRECCIATED.
7	LIGHT-DARK GREY FINE DOLOMITIC SHALES WITH MUCH HIGHER GRAPHITIC CONTENT THAN UNIT 1. THE LIGHT COLOURED IS A RESULT OF MORE CALCAREOUS BANDING PRESENT AT THE TOP OF THE UNIT.
6	SANDY SILICIFIED DOLOMITE CHANGING LATERALLY TO LIGHT GREY SANDY DOLOMITIC SHALES AND ORGILLACEOUS DOLOMITE.
5	DARK GREY-BLACK GRAPHITIC SHALE OR PHYLLITE, LOCALLY PLATY.
4	DARK GREY-BLACK DOLOMITIC SHALE WITH INTERBEDDED LIGHT-DARK GREY MORE CALCAREOUS SHALES.
3	LIGHT-DARK GREY DOLOMITIC SHALE WITH LIGHT MEDIUM GREY BAND OF SANDY MATERIAL. THIS SANDY MATERIAL IS NOT PREDOMINENT THROUGHOUT THE ENTIRE UNIT
2	DARK-GREY BLACK GRAPHITIC DOLOMITIC SHALE.
1	CHLORITIC PHYLLITE.

——————— GEOLOGIC CONTACT

~~~~~~ FAULT

FIG. 4

ATLAS EXPLORATIONS LIMITED

SHELDON REGION

GEOLOGICAL CROSS-SECTION

HOLE # 1, 11, 9, 9a, 10, 2, 4, 3, 5 & 2a

DRAWN BY: P.VLASVELD
JAN. 1969

SCALE IN FEET

105-G-16

inches
centimetres
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YUKON GEOLOGICAL SURVEY
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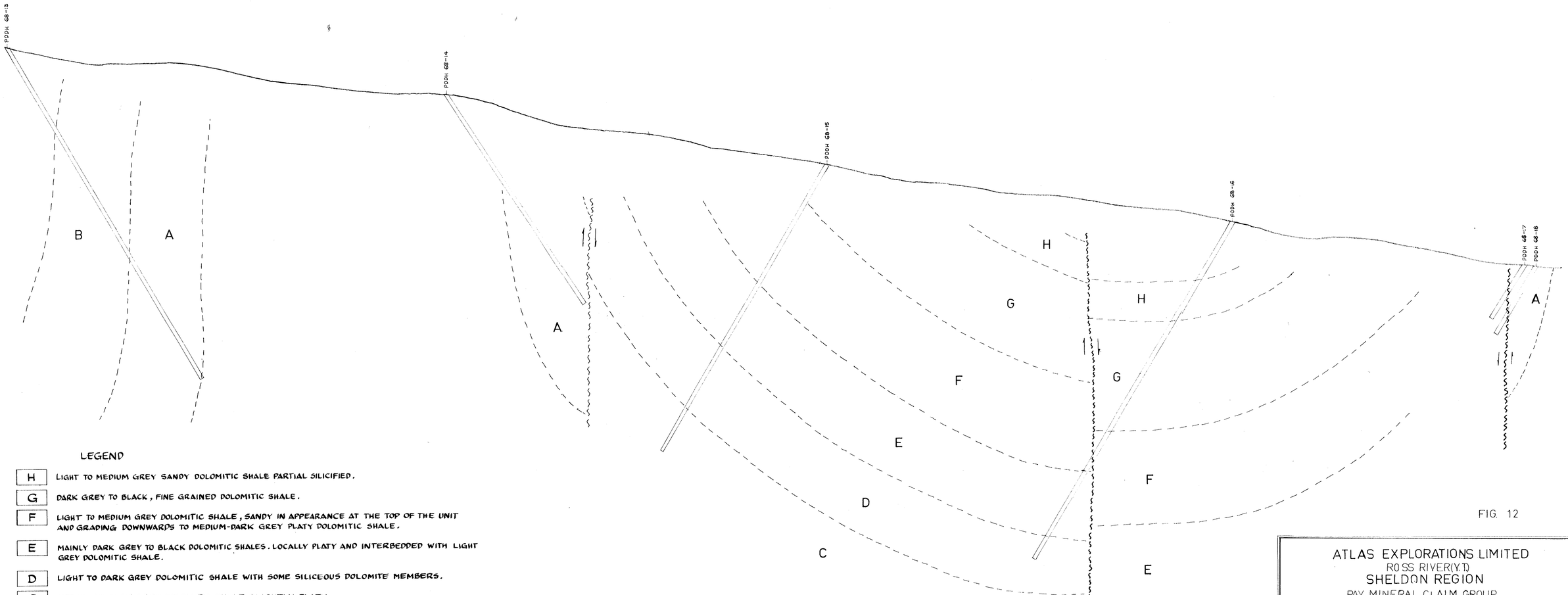


FIG. 12

LEGEND

H	LIGHT TO MEDIUM GREY SANDY DOLOMITIC SHALE PARTIAL SILICIFIED.
G	DARK GREY TO BLACK, FINE GRAINED DOLOMITIC SHALE.
F	LIGHT TO MEDIUM GREY DOLOMITIC SHALE, SANDY IN APPEARANCE AT THE TOP OF THE UNIT AND GRADING DOWNWARDS TO MEDIUM-DARK GREY PLATY DOLOMITIC SHALE.
E	MAINLY DARK GREY TO BLACK DOLOMITIC SHALES. LOCALLY PLATY AND INTERBEDDED WITH LIGHT GREY DOLOMITIC SHALE.
D	LIGHT TO DARK GREY DOLOMITIC SHALE WITH SOME SILICEOUS DOLOMITE MEMBERS.
C	MEDIUM TO DARK GREY DOLOMITIC SHALE SLIGHTLY PLATY.
B	DARK GREY TO BLACK DOLOMITIC PHYLLITE INTERBEDDED WITH LIGHT-MEDIUM GREY DOLOMITIC SHALE.
A	BLACK GRAPHITIC PHYLLITE.

SYMBOLS

GEOLOGIC CONTACTS

FAULTS

inches 0 1 2

centimetres 0 1 2 3 4 5

This reference scale bar has been added to the original image. It will scale at the same ratio as the image, therefore it can be used as a reference for the original size.

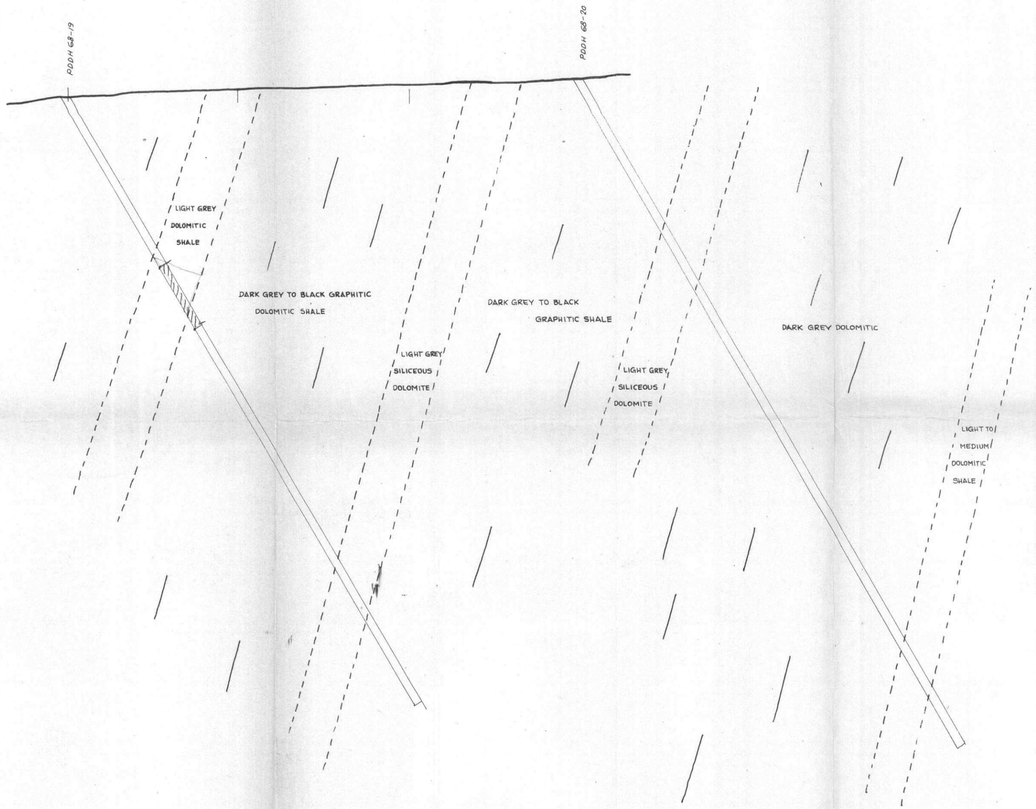
YUKON GEOLOGICAL SURVEY

ATLAS EXPLORATIONS LIMITED
ROSS RIVER(Y.T.)
SHELDON REGION
PAY MINERAL CLAIM GROUP
GEOLOGICAL CROSS-SECTION
HOLE # 13,14,15,16,17 & 18

DRAWN BY: PV & D.W.G
JAN. 1969

50 0 50 100
SCALE IN FEET

105-G-16



GEOLOGIC CONTACT

FIG. 15

ATLAS EXPLORATIONS LIMITED
ROSS RIVER (Y.T.)
SHELDON REGION
PAY MINERAL CLAIM GROUP
GEOLOGICAL CROSS-SECTION
HOLE 19 & 20

DATE: DEC. 16-1968

DRAWN BY: P.J.F. VLASVELD

SCALE IN FEET

105-G-16

inches
centimetres

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YUKON GEOLOGICAL SURVEY

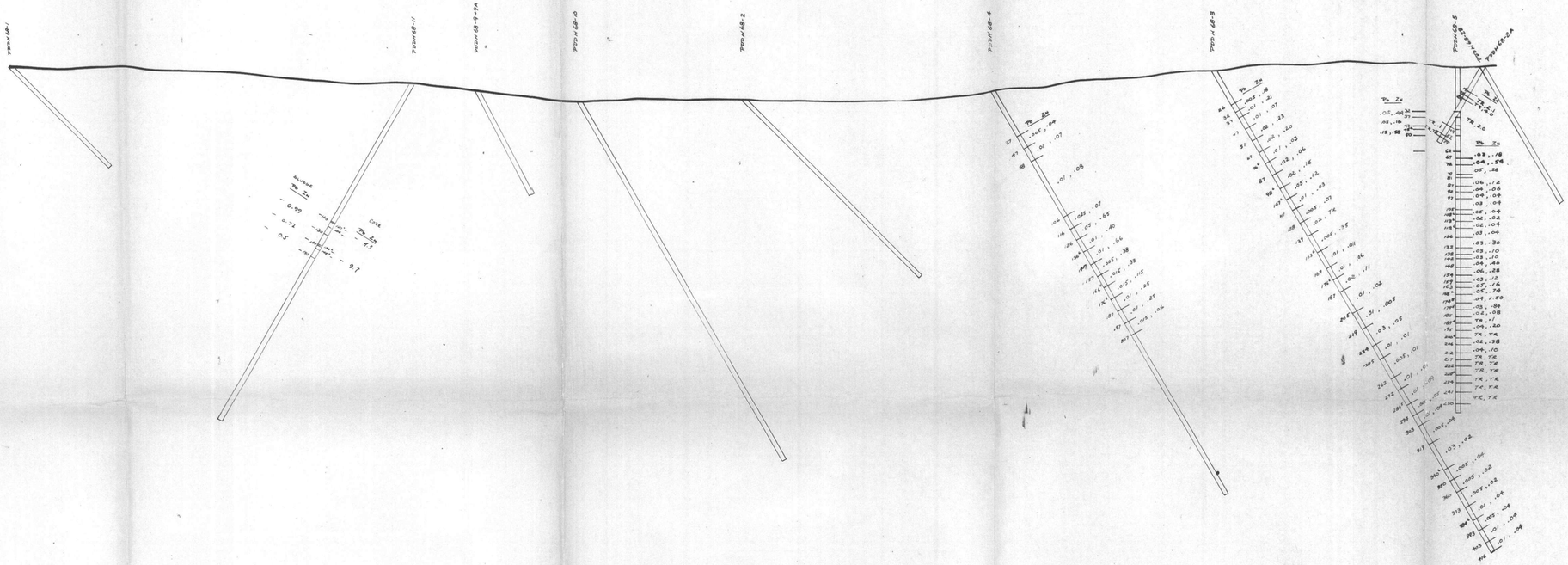

FIG. 17

ATLAS EXPLORATIONS LTD.

PAY MINERAL CLAIMS

ASSAY RESULTS

HOLES 2A,3,4,5 & 11

DATE:- AUGUST 12 1968

DRAWN BY:- R DARNEY

0 50 100 150

scale 1=50

inches
0 1 2
0 1 2 3 4 5
centimetres

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YUKON GEOLOGICAL SURVEY

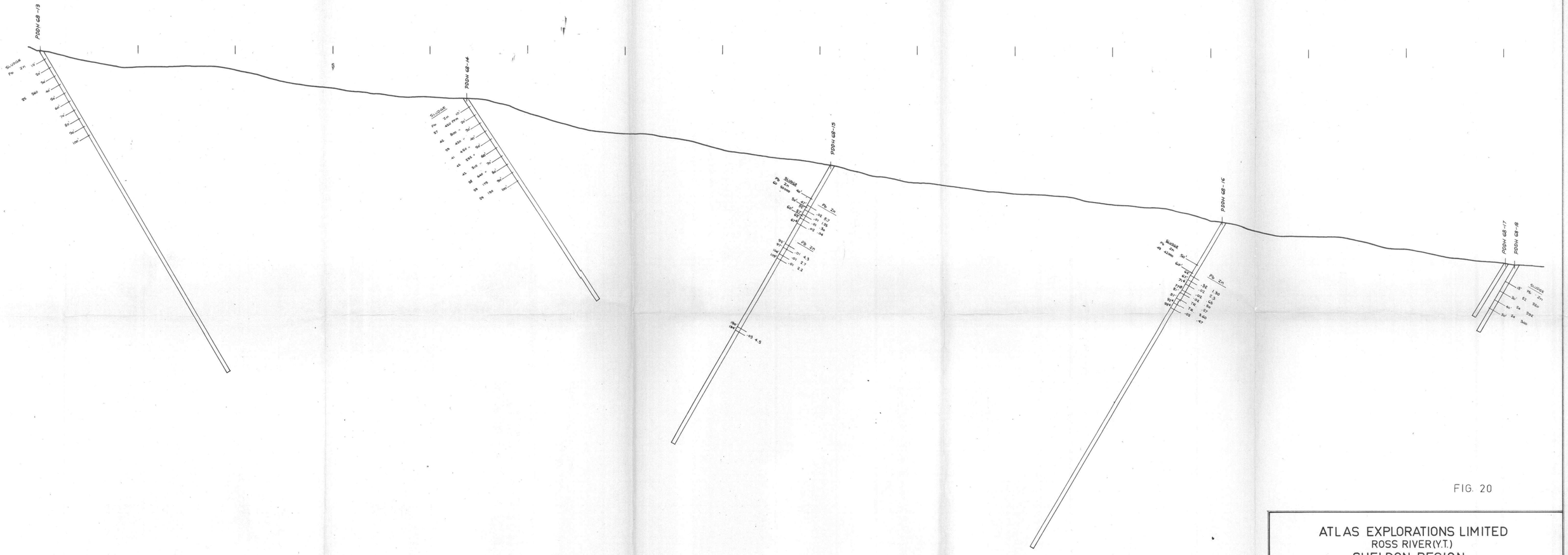

FIG. 20

ATLAS EXPLORATIONS LIMITED
ROSS RIVER(Y.T.)
SHELDON REGION
PAY MINERAL CLAIM GROUP
DRILLHOLE PROFILES
HOLE # 13,14,15,16,17 & 18.

DRAWN BY : R.DARNEY

SCALE IN FEET
50 0 50 100

105-G-16

inches
0 1 2
centimetres
0 1 2 3 4 5

YUKON GEOLOGICAL SURVEY

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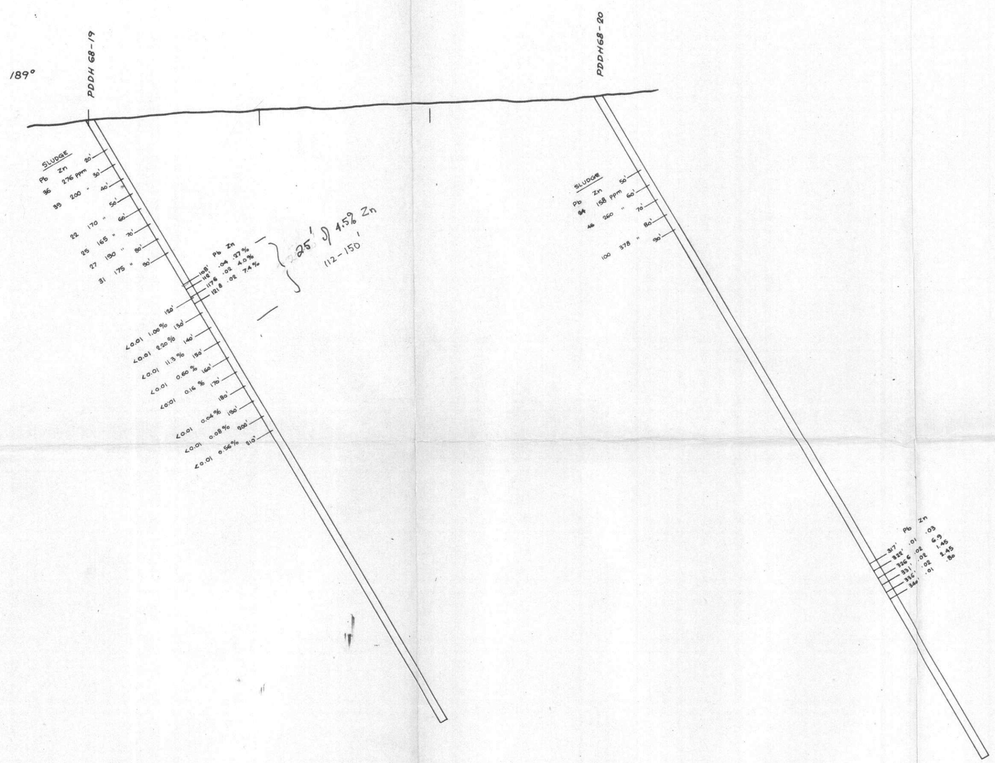

FIG. 21

ATLAS EXPLORATIONS LIMITED
ROSS RIVER (Y.T.)
SHELDON REGION
PAY MINERAL CLAIM GROUP
ASSAY RESULTS
HOLE # 19&20

DRAWN BY: R.DARNEY

inches
0 1 2
0 1 2 3 4 5
centimetres

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YUKON GEOLOGICAL SURVEY

50 0 50 100
SCALE IN FEET

105-G-16

GRID LAKE

A

B

C

D

E

PDDH-68-1
PDDH-68-2
PDDH-68-3
PDDH-68-4
PDDH-68-5
PDDH-68-6
PDDH-68-7
PDDH-68-8
PDDH-68-9
PDDH-68-10
PDDH-68-11
PDDH-68-12
PDDH-68-13
PDDH-68-14
PDDH-68-15
PDDH-68-16
PDDH-68-17
PDDH-68-18
PDDH-68-21
PDDH-68-22

LEGEND

- RESIDUAL GRAVITY (milligals)
- 40 ppm Lead } GEOCHEMISTRY
- 600 ppm Zinc }
- PDDH — DRILL HOLE LOCATIONS
- FAULT
- ANTICLINAL AXIS — DEFINED, ASSUMED
- SYNCLINAL AXIS
- ELECTROMAGNETIC ANOMALY
- PROPOSED DRILL HOLES

LITHOLOGY

- 3a - Silicified, brecciated, sandy dolomite
- 3 - Platy dolomite to dolomitic shale
- 2 - Grey to black phyllite

ATLAS EXPLORATIONS LIMITED

PAY CLAIMS COMPILATION MAP

N. T. S.: 105-G-16		SCALE: 1"= 400'
DATE OF SURVEY:		PARTY CHIEF:
DATE DRAFTED: 12-3-71		DRAFTED BY: J.A.D.
DATE REVISED:		REVISED BY:
CHECKED BY:		FIGURE No.:

YUKON GEOLOGICAL SURVEY

This reference scale bar was plotted from the original image. It will scale at the same rate as the image and may be used as a reference for the original size.

L 120 W
L 100 W
L 80 W
L 60 W
L 40 W
L 20 W
PAY LAKE
GRID LAKE
B.L. 0+00
B.L. 50+00 S
FORTIN LAKE
PAY GROUP
61°57' N
130°35' W

DRILL HOLE ASSAY RESULTS

DRILL HOLE	INTERVAL	LENGTH	% Zn.
68 - 2a	19' - 59' 19' - 49'	40' 30'	1.68 2.20
68 - 4	116' - 197'	81'	0.38
68 - 5	32' - 48' 62' - 79'	11' 17'	0.28 0.32
68 - 7	96' - 119'	23'	2.77
68 - 8	90' - 130'	40'	0.40
68 - 15	47' - 62' 93' - 109' 190' - 194'	15' 16' 4'	3.41 2.9 4.5
68 - 16	62' - 98.5'	36.5'	1.3
68 - 19	108' - 121.8'	13.8'	4.6
68 - 20	322' - 340'	18'	2.9

LEGEND

- 4 — GREEN TO GREY BONDED CHERT
- 3 — MEDIUM GREY HOST DOLOMITE TO DOLOMITE SHALE.
- 2 — LIGHT GREY TO BLACK PHYLLITE
- APPROXIMATE GEOLOGIC CONTACTS
- PRESUMED FAULTS
- ANOMOLOUS LEAD GEOCHEM.
- ANOMOLOUS ZINC GEOCHEM.
- RESIDUAL GRAVITY ANOMOLIES
- DIAMOND DRILL HOLES
- CAT TRENCHES
- PROPOSED DRILL HOLES

1000 0 1000 2000 3000
SCALE IN FEET

ATLAS EXPLORATIONS LIMITED
SHELDON PROJECT
PAY GROUP
COMPILATION MAP

DATE NOV./ 78 | NTS-105-G-16

inches
0 1 2
0 1 2 3 4 5
centimetres

YUKON GEOLOGICAL SURVEY

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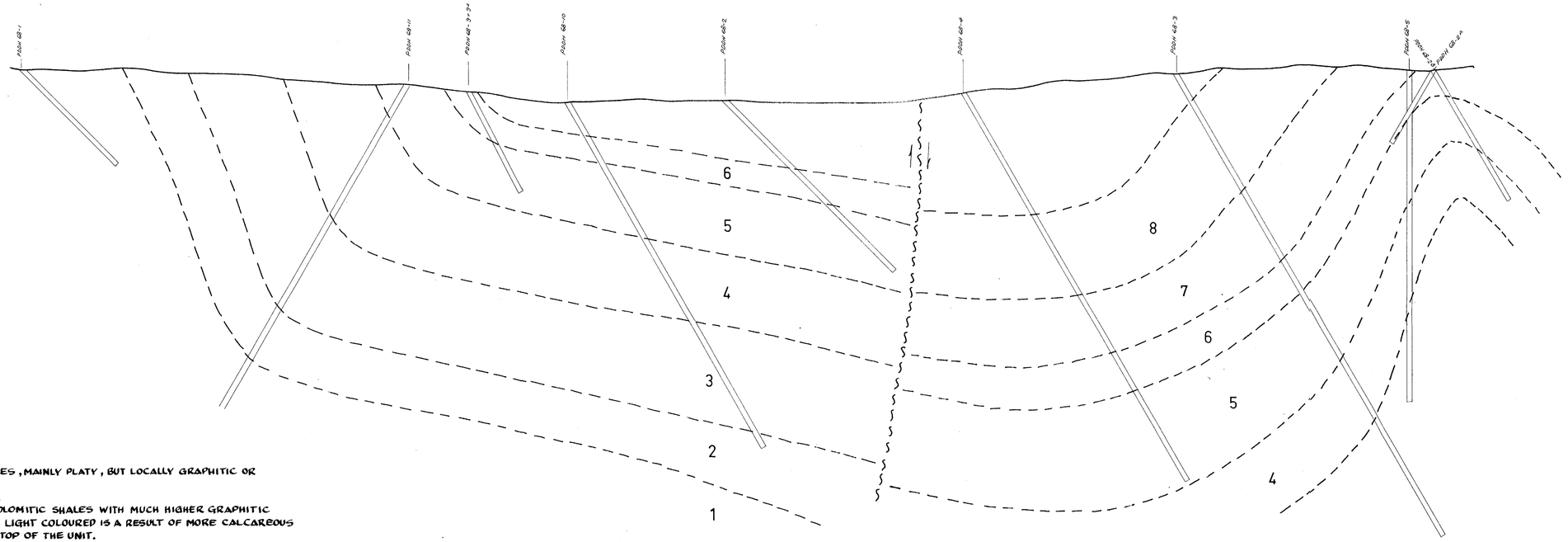

LEGEND

8	DARK GREY DOLOMITIC SHALES, MAINLY PLATY, BUT LOCALLY GRAPHITIC OR BRECCIATED.
7	LIGHT-DARK GREY FINE DOLOMITIC SHALES WITH MUCH HIGHER GRAPHITIC CONTENT THAN UNIT 1. THE LIGHT COLOURED IS A RESULT OF MORE CALCAREOUS BANDING PRESENT AT THE TOP OF THE UNIT.
6	SANDY SILICIFIED DOLOMITE CHANGING LATERALLY TO LIGHT GREY SANDY DOLOMITIC SHALES AND ORGILLACEOUS DOLOMITE.
5	DARK GREY-BLACK GRAPHITIC SHALE OR PHYLLITE, LOCALLY PLATY.
4	DARK GREY-BLACK DOLOMITIC SHALE WITH INTERBEDDED LIGHT-DARK GREY MORE CALCAREOUS SHALES.
3	LIGHT-DARK GREY DOLOMITIC SHALE WITH LIGHT MEDIUM GREY BAND OF SANDY MATERIAL. THIS SANDY MATERIAL IS NOT PREDOMINENT THROUGHOUT THE ENTIRE UNIT
2	DARK-GREY BLACK GRAPHITIC DOLOMITIC SHALE.
1	CHLORITIC PHYLLITE.

——————— GEOLOGIC CONTACT

~~~~~~ FAULT

FIG. 4

ATLAS EXPLORATIONS LIMITED

SHELDON REGION

GEOLOGICAL CROSS-SECTION

HOLE # 1, 11, 9, 9a, 10, 2, 4, 3, 5 & 2a

DRAWN BY: P.VLASVELD
JAN. 1969

SCALE IN FEET

105-G-16

inches
centimetres
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YUKON GEOLOGICAL SURVEY
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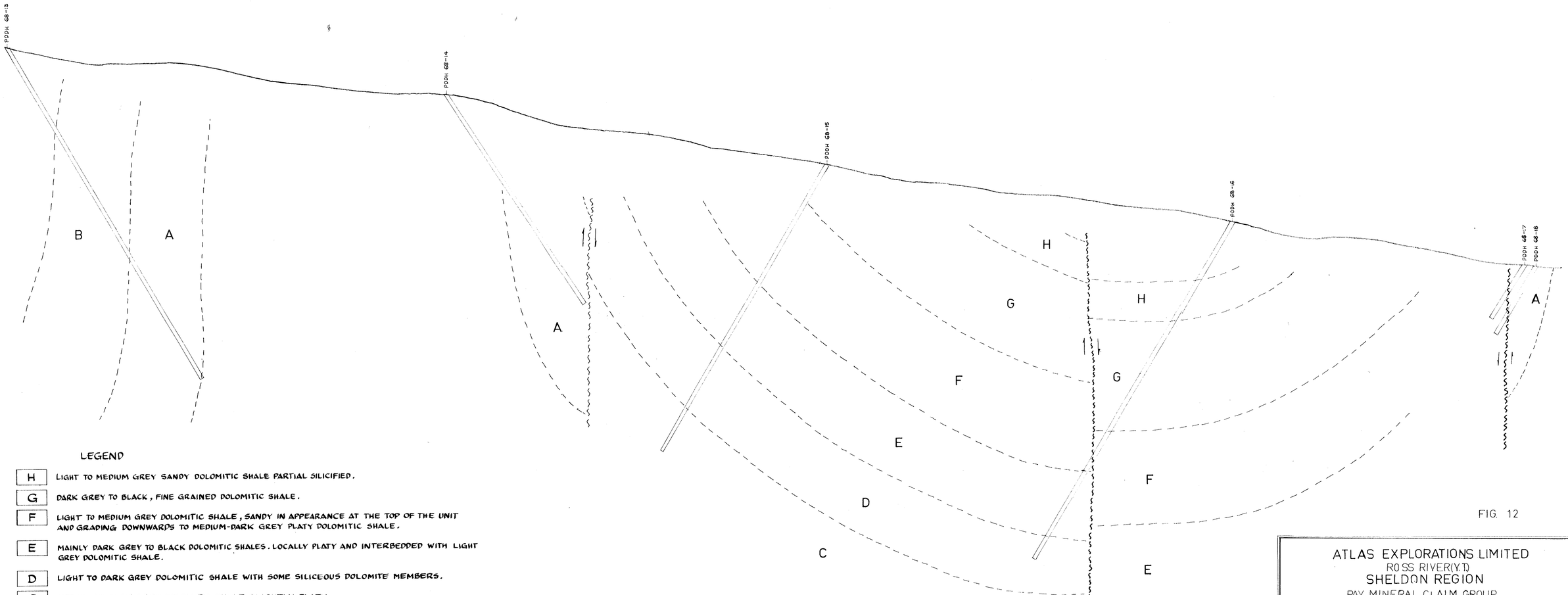

FIG. 12

LEGEND

H	LIGHT TO MEDIUM GREY SANDY DOLOMITIC SHALE PARTIAL SILICIFIED.
G	DARK GREY TO BLACK, FINE GRAINED DOLOMITIC SHALE.
F	LIGHT TO MEDIUM GREY DOLOMITIC SHALE, SANDY IN APPEARANCE AT THE TOP OF THE UNIT AND GRADING DOWNWARDS TO MEDIUM-DARK GREY PLATY DOLOMITIC SHALE.
E	MAINLY DARK GREY TO BLACK DOLOMITIC SHALES. LOCALLY PLATY AND INTERBEDDED WITH LIGHT GREY DOLOMITIC SHALE.
D	LIGHT TO DARK GREY DOLOMITIC SHALE WITH SOME SILICEOUS DOLOMITE MEMBERS.
C	MEDIUM TO DARK GREY DOLOMITIC SHALE SLIGHTLY PLATY.
B	DARK GREY TO BLACK DOLOMITIC PHYLLITE INTERBEDDED WITH LIGHT-MEDIUM GREY DOLOMITIC SHALE.
A	BLACK GRAPHITIC PHYLLITE.

SYMBOLS

GEOLOGIC CONTACTS

FAULTS

inches 0 1 2

centimetres 0 1 2 3 4 5

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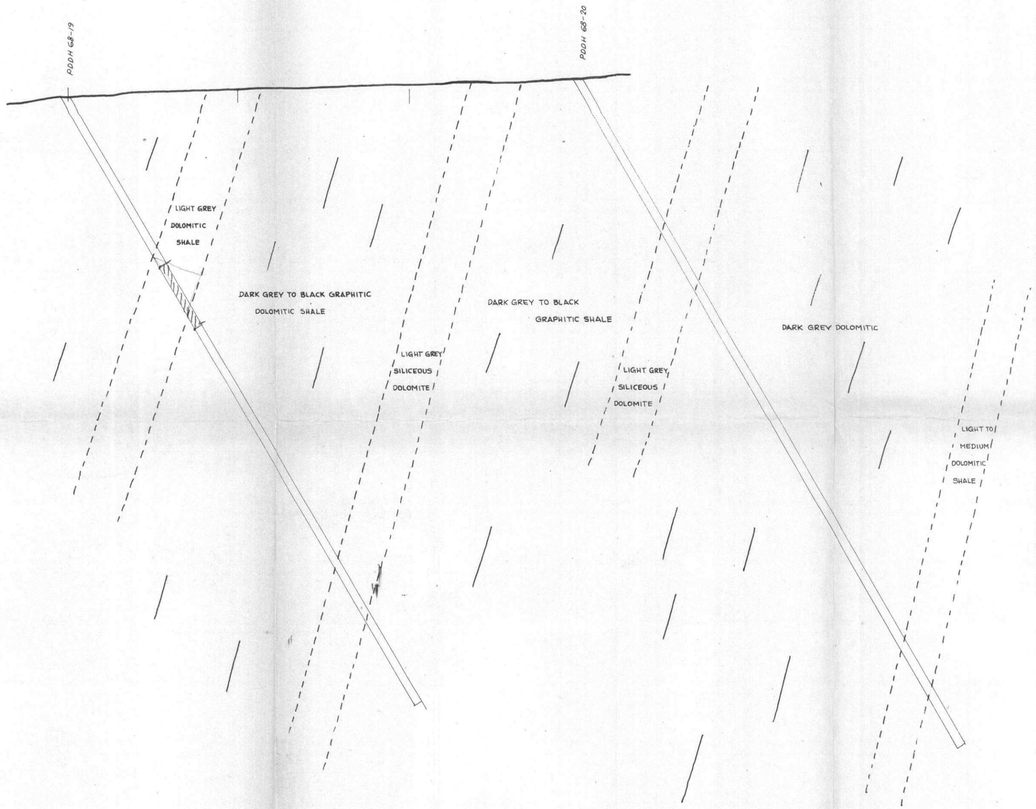
YUKON GEOLOGICAL SURVEY

ATLAS EXPLORATIONS LIMITED
ROSS RIVER(Y.T.)
SHELDON REGION
PAY MINERAL CLAIM GROUP
GEOLOGICAL CROSS-SECTION
HOLE # 13,14,15,16,17 & 18

DRAWN BY: PV & D.W.G
JAN. 1969

50 0 50 100
SCALE IN FEET

105-G-16



GEOLOGIC CONTACT

FIG. 15

ATLAS EXPLORATIONS LIMITED
ROSS RIVER (Y.T.)
SHELDON REGION
PAY MINERAL CLAIM GROUP
GEOLOGICAL CROSS-SECTION
HOLE 19 & 20

DATE: DEC. 16-1968

DRAWN BY: P.J.F. VLASVELD

SCALE IN FEET

105-G-16

inches
centimetres

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YUKON GEOLOGICAL SURVEY

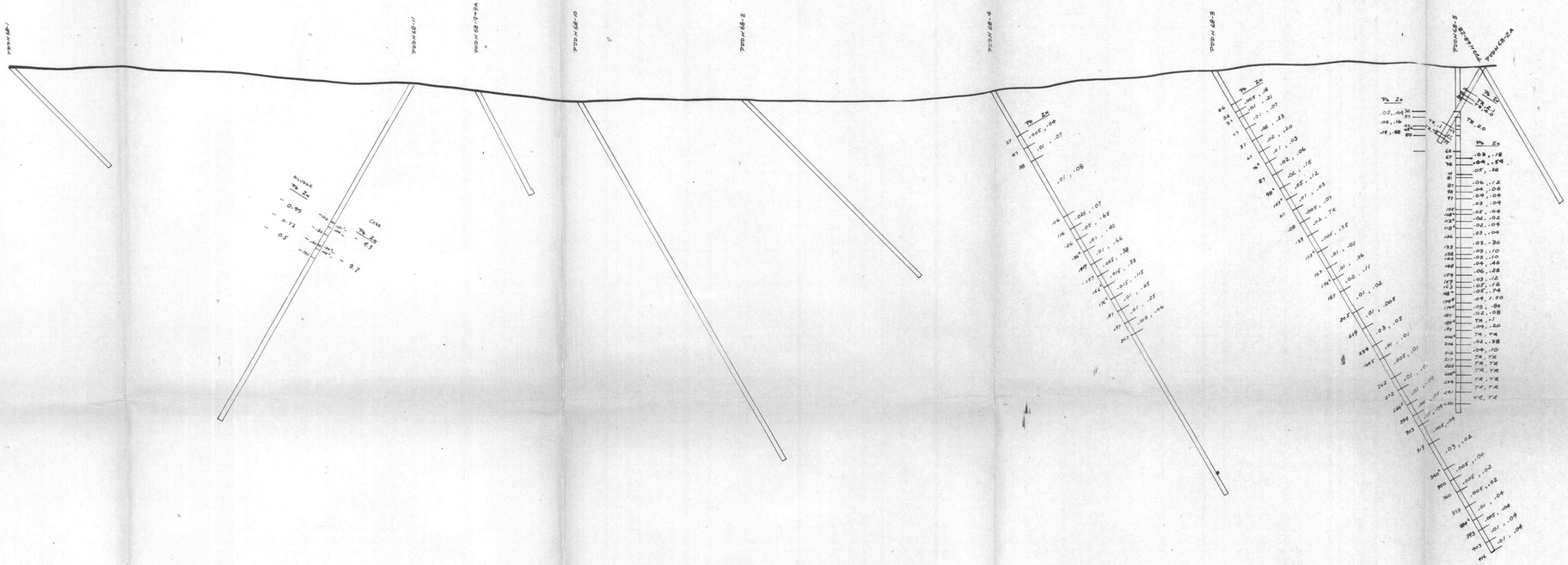

FIG. 17

ATLAS EXPLORATIONS LTD.

PAY MINERAL CLAIMS

ASSAY RESULTS

HOLES 2A,3,4,5 & 11

DATE:- AUGUST 12 1968

DRAWN BY:- R DARNEY

0 50 100 150

scale 1=50

inches
0 1 2
0 1 2 3 4 5
centimetres

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YUKON GEOLOGICAL SURVEY

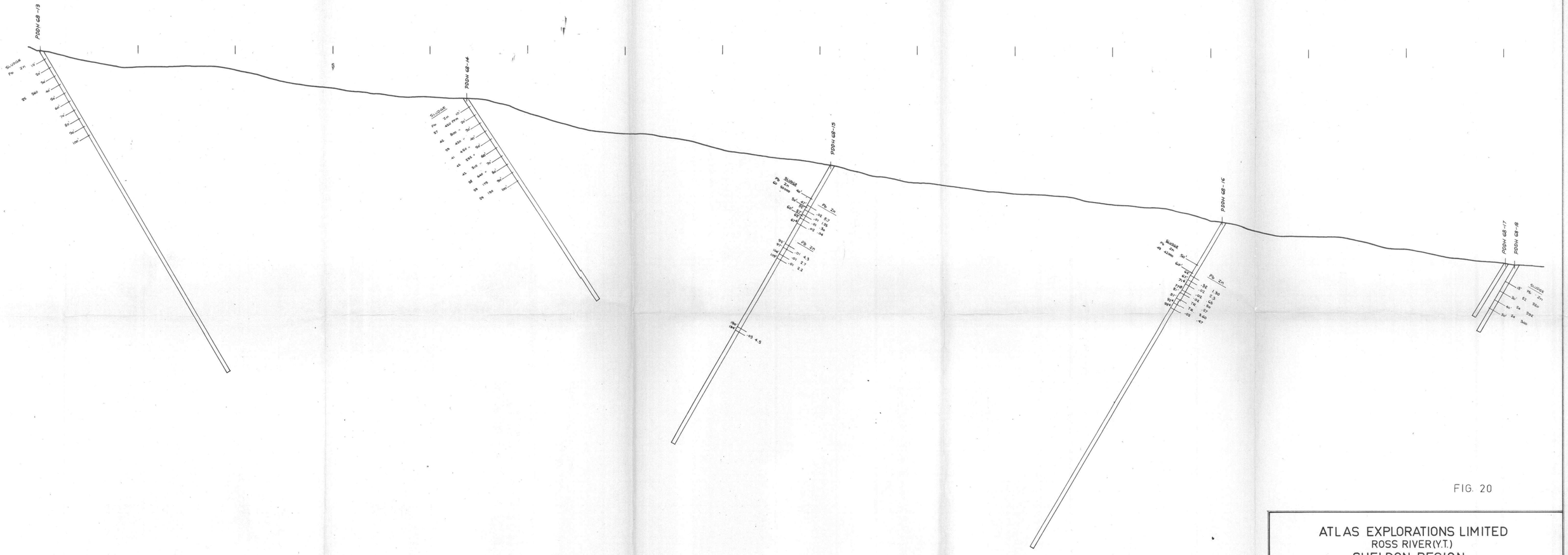

FIG. 20

ATLAS EXPLORATIONS LIMITED
ROSS RIVER(Y.T.)
SHELDON REGION
PAY MINERAL CLAIM GROUP
DRILLHOLE PROFILES
HOLE # 13,14,15,16,17 & 18.

DRAWN BY : R.DARNEY

SCALE IN FEET
50 0 50 100

105-G-16

inches
0 1 2
centimetres
0 1 2 3 4 5

YUKON GEOLOGICAL SURVEY

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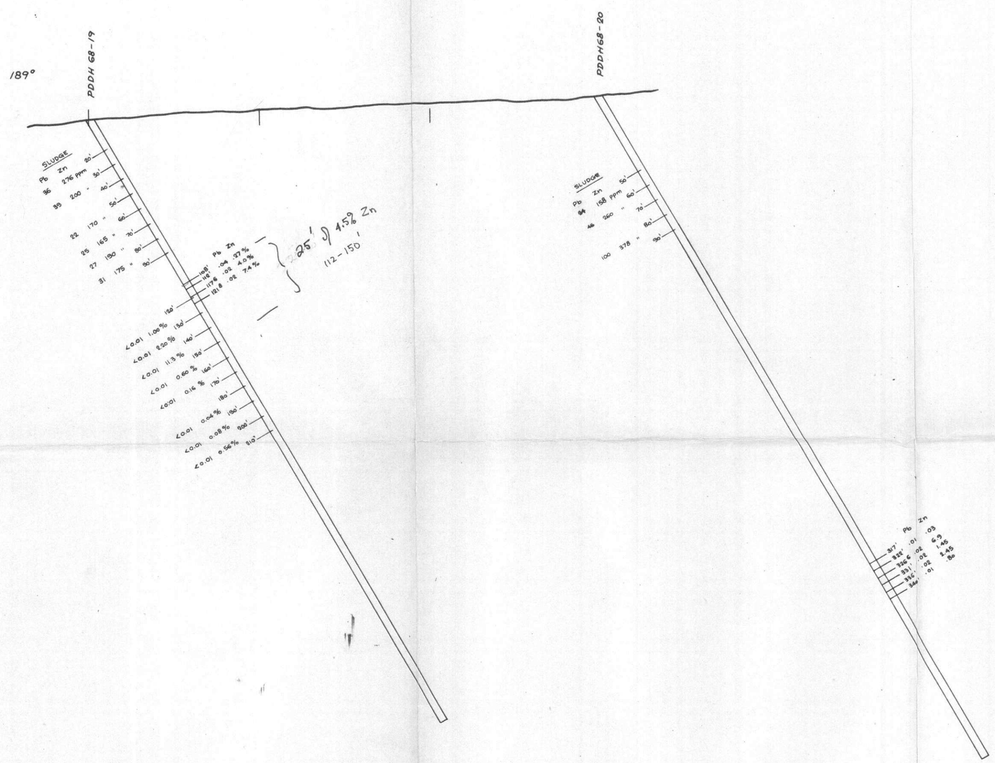

FIG. 21

ATLAS EXPLORATIONS LIMITED
ROSS RIVER (Y.T.)
SHELDON REGION
PAY MINERAL CLAIM GROUP
ASSAY RESULTS
HOLE # 19&20

DRAWN BY: R.DARNEY

inches
0 1 2
0 1 2 3 4 5
centimetres

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YUKON GEOLOGICAL SURVEY

50 0 50 100
SCALE IN FEET

105-G-16

FIG. 1

ATLAS EXPLORATIONS LIMITED

ROSS RIVER (Y.T.)

PAY MINERAL CLAIMS

KEY MAP OF CLAIMS AND GRID

CLAIM SHEETS: 105-G-16
" " 105-G-15
" " 105-J-1
" " 105-J-2

inches
0 1
0 1 2
centimetres

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YUKON GEOLOGICAL SURVEY

PELLY RIVER

130° 30'

62° 00'

FORTIN LAKE

PAY

PHIL

LINE 148 W

BASELINE O

LINE O

LINE 24 E

BASELINE 505

LINE 80S

OUTLINE OF GRID

Cat trench 3

Cat trench 2

Cat trench 1

3000

3500

4500

6000

P.V.

ATLAS EXPLORATIONS LIMITED

ROSS RIVER (Y.T)

PAY MINERAL CLAIMS

GEOLOGY

SCALE 1: 1000'

GEOLOGY: R. DARNEY
C.L. SMITH
W. ROBERTS

DATE: AUGUST 1967

LEGEND:

CRETACEOUS (?)

- 5a — QUARTZ MONZONITE PORPHYRY: QUARTZ AND ORTHOCLASE PHENOCRYSTS IN A GREY, MILDLY-ALTERED FINE- TO MEDIUM GRAINED MATRIX.

UPPER DEVONIAN

- 4e — BLACK PHYLLITE: EXTREMELY FINE-GRAINED WITH WELL DEVELOPED FOLIATION, CARBONACEOUS, LACKS SEGREGATED QUARTZ.
- 4d — CHERT-DOLOMITE: DARK GREY-BLACK, MASSIVELY-BEDDED. LOCALLY INTERBEDDED WITH GREY DOLOMITE UP TO 40%. UNIT IS QUITE EXTENSIVELY BRECCIATED AND CONTAINS ORIGINAL PAY-SHOWINGS ON 1-16 GROUP.
- 4c — DOLOMITE: DARK GREY, FINE GRAINED, MASSIVE TO WELL BEDDED. MINOR THINLY INTERBEDDED LIMESTONE.
- 4b — DOLOMITE - CHERT: CRYPTOCRYSTALLINE, DARK BROWN, THINLY-BEDDED WITH WELL DEVELOPED FOLIATION. LOCALITY N.E. OF GRID LAKE IS ESSENTIALLY DOLOMITE WITH MINOR INTERBEDS OF PHYLLITE AND CHERT WHILE AREA NORTH OF BARRY LAKE CONTAINED A MUCH HIGHER PERCENTAGE OF INTERBEDDED CHERT.
- 4a — BANDED CHERT: FINELY-BEDDED GREY GREEN CHERT. BANDING IS FINE, (1-2 M.M.) AND IN SOME LOCALITIES VERY REGULAR. IN AREA S.E. OF PAY LAKE THE BANDING CONSISTS OF ALTERNATE LAYERS OF GREY, GREENISH-GREY, AND PURPLISH BLACK COLOURED CHERT. BANDING IS REGULAR BUT CRENULATED.

SILURIAN-DEVONIAN

- 3a — GRAPHITIC DOLOMITE: MEDIUM-DARK GREY, FINE GRAINED, CRYSTALLINE AND LOCALLY PLATY.
- 3a — HOST DOLOMITE: LIGHT TO DARK GREY, FINE- TO MEDIUM-GRAINED LOCALLY BRECCIATED, SPORATICALLY HYDROTHERMALLY ALTERED BY SILICA AND PYRITE.
- 3a — DOLOMITE: CRYPTOXLINE, DARK BROWN, THINLY BEDDED AND FOLIATED. VERY SIMILAR TO UNIT 4b, BUT LACKS INTERBEDDED CHERT AND PHYLLITE.

MIDDLE-UPPER CAMBRIAN

- 2c — SERICITIC PHYLLITE: LIGHT-MEDIUM GREY, FINE GRAINED WITH WELL DEVELOPED FOLIATION UP TO 15% INTERBEDDED AND CROSS-CUTTING SEGREGATED QUARTZ.
- 2b — PHYLLITE: DARK GREY, FINE GRAINED, FOLIATED, AND CONTAINS UP TO 50% SEGREGATED QUARTZ, BOTH INTERBEDDED AND CROSS CUTTING. FOLIATION NOT AS WELL DEVELOPED AS IN UNIT #3.
- 2a — SPOTTED PHYLLITE: PHYLLITE SPOTTED WITH FINE-GRAINED CRYSTALS OF CORDIERITE AND ANDALUSITE.

PROTEROZOIC (?)

- 1c — QUARTZITE: FINE GRAINED, GREY TO BLACK, MASSIVE-BEDDED

MINERAL SHOWINGS:

A — SHEAR ZONE 12-18' WIDE IN BANDED GREEN-GREY CHERT. Pb-Zn OCCURS AS BRECCIA MATRIX. ASSAYS: Y1554

B — ARSENOPYRITE, PYRITE, PYRRHOTITE, AND MINOR Pb-Zn-Cu IN A SERIES OF 4 CROSS-CUTTING VEINS IN BANDED CHERT. VEINS WIDTHS VARY FROM 6" TO 12". ASSAYS: Y1555

C — ARSENOPYRITE, PYRRHOTITE, PYRITE IN CROSS-CUTTING QUARTZ VEIN (12" WIDE) IN BANDED CHERT. ASSAYS: 4855

D — Pb-Zn, ARSENOPYRITE AND PYRITE AS BRECCIA MATRIX IN NARROW SHEAR ZONE IN BANDED CHERT. ASSAYS: Y1601-1602-, Y1556

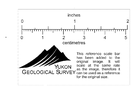
E — IRREGULAR Pb AND MINOR Zn REPLACEMENT WITH QUARTZ, BARITE GANGUE APPROXIMATELY 3 FEET WIDE IN MEDIUM TO DARK GREY QUARTZITE. SOME DISSEMINATION OCCURS ERRATICALLY OUTWARDS FOR 3-4 FEET FROM THE MAIN MINERALIZED AREA ASSAY: Y1603, Y1553.

F — MAIN SHOWING: VEINED AND TRUE DISSEMINATED LIGHT PURPLISH-BROWN Zn IN BRECCIATED SILICIFIED DOLOMITE. SOME PYRITE ALTERATION AND VEINED Pb IS ALSO PRESENT. GANGUE CONSIST OF QUARTZ, CALCITE, MINOR SIDERITE AND BARITE.
ASSAYS Y1674, 1675, 1676, 1677, Y1557, 1551-1552
HANDTRENCH # 1 1.9% Zn/90'
CAT TRENCH # 2 1.6% Zn/70'
FOR DETAIL ASSAYS SEE TRENCH ASSAY MAP.
HAND TRENCH #2 1.6% Zn/70'

G — REPLACEMENT Pb-Zn-Cu IN CHERT BRECCIA AND LOCALLY IN DOLOMITE ASSAYS: Y1604-Y1616.

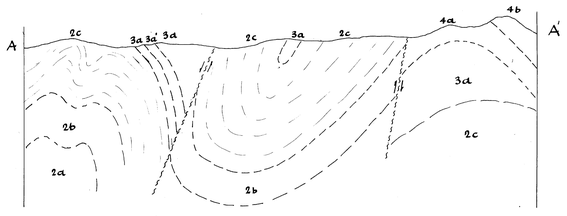
SYMBOLS:

- OUTLINE OF GRID
- OUTLINE OF CLAIMS
- GEOLOGICAL CONTACT (DEFINED, APPROXIMATELY, ASSUMED)
- BEDDING (HORIZONTAL, INCLINED, VERTICAL)
- FAULT (ASSUMED)
- FAULT (APPROXIMATELY)
- ISOCLINAL SYNCLINAL AXIS
- ANTICLINAL AXIS
- OUTLINE OF OUTCROP AREA
- OUTCROPS
- TOPOGRAPHIC CONTOURS

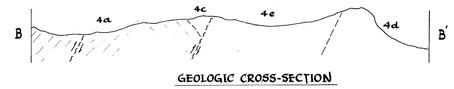


ASSAY RESULTS

	Au	Ag	Cu	Pb	Zn
Y1554	TR	.6	.15	.95	1.10
Y1555	.92	.5	.02	.15	NO
4855	.44	.15	—	NO	.02
Y1601	—	.77	—	3.0	4.0
Y1602	—	.91	—	2.0	0.66
Y1556	—	1.4	.07	3.15	1.95
Y1603	—	1.3	.005	11.8	.005
Y1553		.6	.01	1.75	.3
Y1674	TR	.15	—	TR	1.8
Y1675	—	TR	—	TR	1.6
Y1676	—	8.60	—	96.7	—
Y1677	—	—	—	—	1.5
Y1557		NO	.004	.015	1.00
Y1551		—	.02	NO	6.00
Y1552		.2	.02	NO	1.9
Y1604		1.7	.76	.09	.41
Y1605		1.5	.15	.06	.03
Y1606		2.1	.08	2.0	.005
Y1607		2.2	.08	2.5	.008
Y1608		0.5	.02	.99	.006
Y1609		0.5	.02	.09	.006
Y1610		.5	.01	.1	.007
Y1611		1.1	.06	.5	.006
Y1612		.4	.03	.02	.002
Y1613		5.4	.18	2.9	.01
Y1614		0.6	.04	3.0	1.07
Y1615		0.4	.1	4.6	.005
Y1616		9.9	.96	5.0	.004



GEOLOGIC CROSS-SECTION



GEOLOGIC CROSS-SECTION

OVERLAY OF AIRPHOTOS # A 12189-156 & A 12295-304

FIG. 3

N

Scale: 1" = 10'

Cat Trail

Decomposed Schist

Soil, Granite Boulders, and fragments of Dolomite Schist

Quartz lenses and Veins with predominant mineralization, mainly galena with minor Sphalerite and Chalcopyrite. — Azurite & Malachite common throughout schist.

Bearing 285°/45°S

Cat Trench #4

Rubbled Schist

	AG	PB	ZN	CU
10				
	1.80	6.5	TR	.10
5				
	1.30	5.5	TR	.45
0				

45

Side Elevation of the West Bank of Cat Trench

Talus of Fluvial Sand with fragments of Granite and Dolomite

35°

30°

40°

454

453

455

456

Very High % of Sphalerite ± Galena and Chalcopyrite

Lishy Showing

Creek

~210'

30°

R-457

PLAN OF THE LISHY SHOWING

(Zn Claims)

Legend

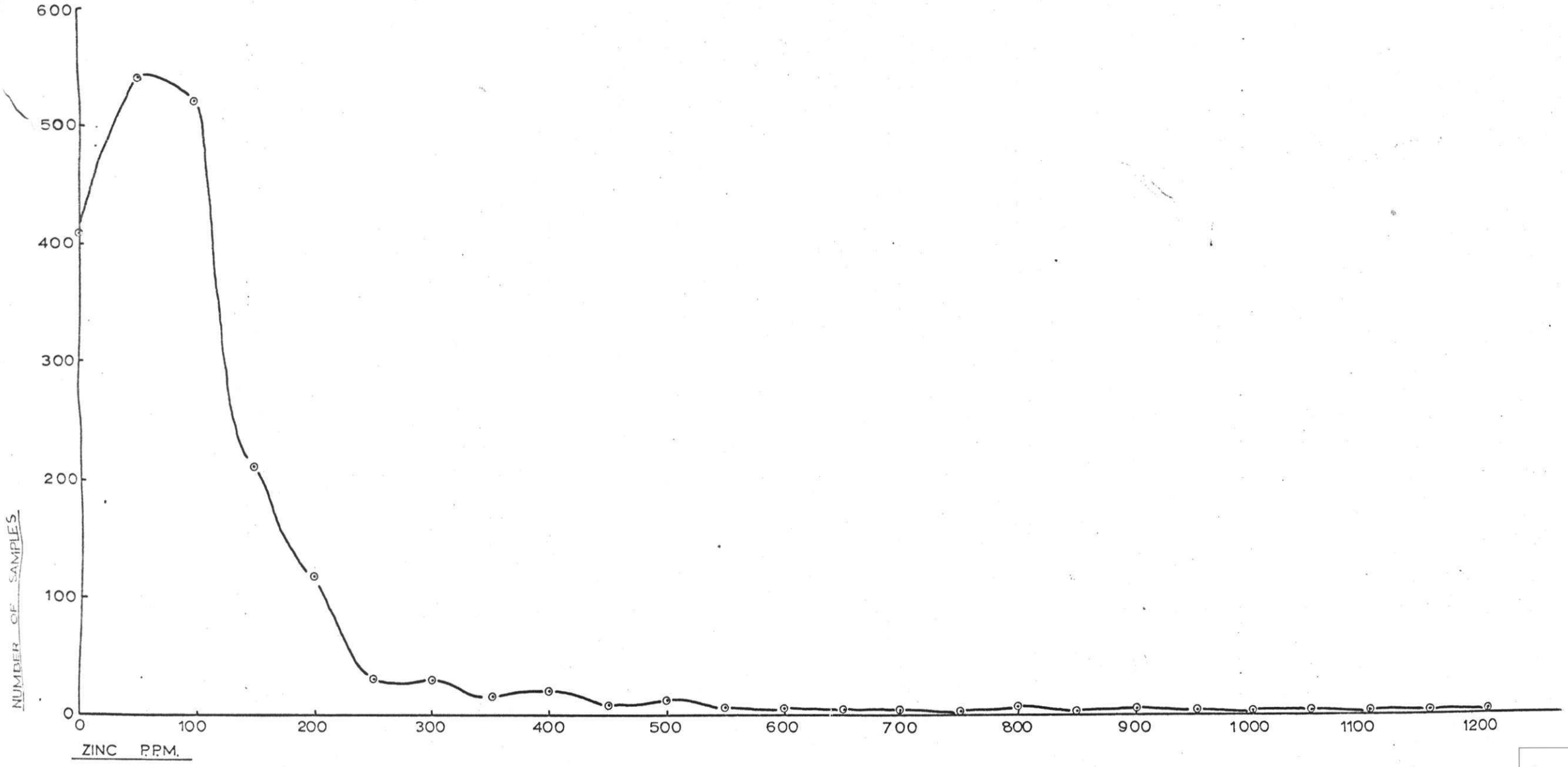
- Light creamy yellow to light grey highly weathered sericitic to a talc schist ? with minor qtz pods and lenses and minor mineralization. Contains some rust stains.
- Light creamy yellow to light grey highly altered sericitic quartzose schist with concordant quartz veins controlling predominant mineralization of which galena is more abundant with minor chalcopyrite, sphalerite and malachite and azurite stains ± some gypsum on foliation planes.
- Dark grey graphitic dolomite schist with many discordant quartz veins in areas, ranging to a breccia with dolomite schist fragments with a matrix of sphalerite and quartz. In some areas matrix is sphalerite with minor galena.
- Medium grey well bedded platy sericitic dolomite, some interbeds appear to be phyllitic. Does not appear to be metamorphosed.

W. Roberts

DATE : AUGUST 1967

inches
0 1 2
0 1 2 3 4 5
centimetres
YUKON GEOLOGICAL SURVEY
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

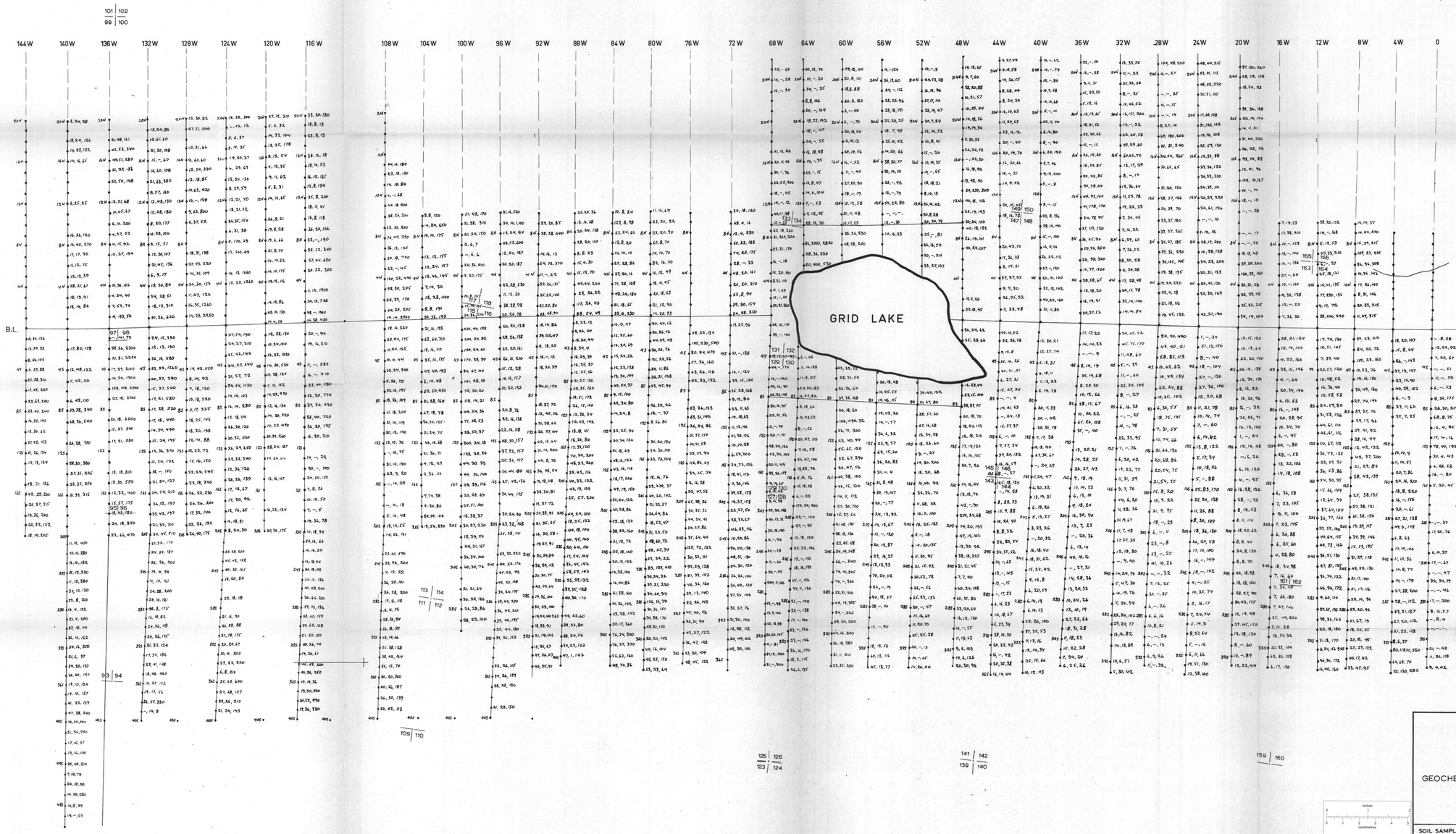
FIG. 4



ZINC FREQUENCY DISTRIBUTION HISTROGRAM

PAY MINERAL CLAIMS SHELDON AREA

inches
0 1
0 1 2
centimetres
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.
YUKON GEOLOGICAL SURVEY



ATLAS EXPLORATIONS LIMITED

ROSS RIVER (Y.T.)

SHELDON REGION

PAY MINERAL CLAIMS

GEOCHEMICAL SOIL SAMPLING SURVEY, COPPER LEAD & ZINC

RESULTS BY ATOMIC ABSORPTION

SPECTROPHOTOMETER ANALYSIS

VALUES

SOIL SAMPLERS: C.WICKS, F.CHARLIE + G.HAINE

DRAWN BY: J.N.B. + P.V.

DATE: AUGUST 1967

inches
centimetres
EUROPA GEOLOGICAL SURVEY
The reference scale bar on this map is that of the original image. It will change if this image, or a section of the image, therefore is enlarged or reduced from the original size.

Fig. 6

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SHELDON REGION

PAY MINERAL CLAIMS

GEOCHEMICAL SOIL SAMPLING SURVEY, COPPER, LEAD & ZINC
RESULTS BY ATOMIC ABSORPTION
SPECTROPHOTOMETER ANALYSIS

SOIL SAMPLERS: C. WICKS • B. ETZEL

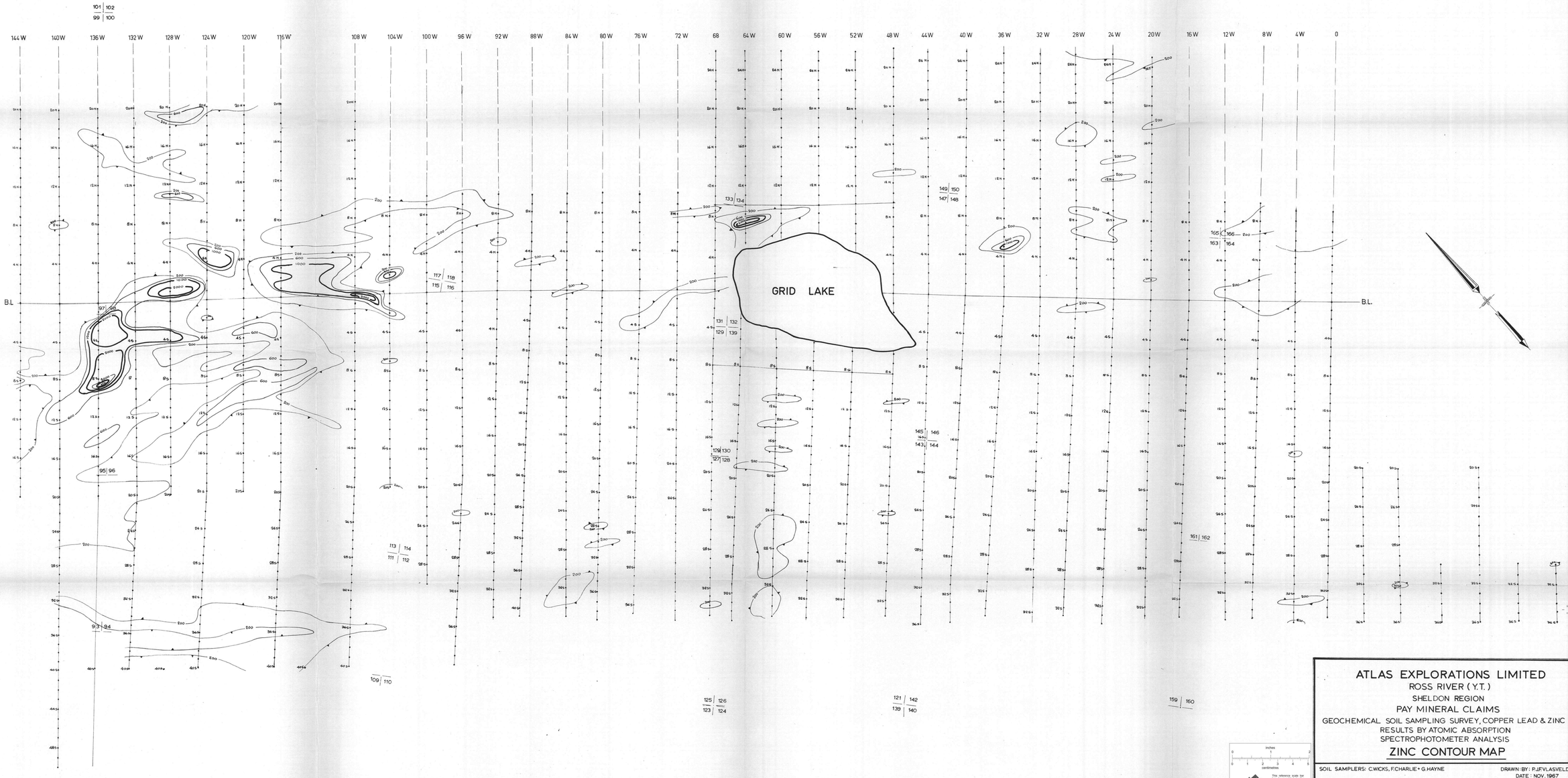
DRAWN BY: J.N. BOATENG

scale in feet

400 0 400 800

This reference scale has been reduced from the original drawings & will scale at the same size as the original drawings for the overall size.

YUKON GEOLOGICAL SURVEY



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ROSS RIVER (Y.T.)

SHELDON REGION

PAY MINERAL CLAIMS

GEOCHEMICAL SOIL SAMPLING SURVEY, COPPER LEAD & ZINC

RESULTS BY ATOMIC ABSORPTION

SPECTROPHOTOMETER ANALYSIS

ZINC CONTOUR MAP

SOIL SAMPLERS: C.WICKS, F.CHARLIE + G.HAYNE

DRAWN BY: P.J.F.VLASVELD

DATE : NOV. 1967

scale in feet

YUKON GEOLOGICAL SURVEY

This reference scale for centimetres is true to original image. It will scale at the same rate as the original drawing for the use and as a reference for the original size.

ATLAS EXPLORATIONS LTD
ROSS RIVER, YUKON
SHELDON PROJECT
PAY MINERAL CLAIMS
GEOCHEMICAL SOIL SAMPLING SURVEY
Zn. CONTOUR MAP

SOIL SAMPLER: C.WICKS

200, 600, contour
1000 p.p.m.

DRAWN BY: J.N. BOATENG
DATE: AUGUST 1967

400 0 400 800
scale in feet

Inches 0 1 2
centimetres 0 1 2 3 4 5

This reference scale bar was added to the original image. It will scale at the same rate as the original and can be used as a reference for the original size.

YUKON GEOLOGICAL SURVEY

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SHELDON PROJECT
PAY MINERAL CLAIMS
GEOCHEMICAL SOIL SAMPLING SURVEY
Pb. CONTOUR MAP

SOIL SAMPLER: C.WICKS

20 p.p.m. (60, 100 etc.)

40 p.p.m. (80, 120 etc.)

DRAWN BY: J.N. BOATENG

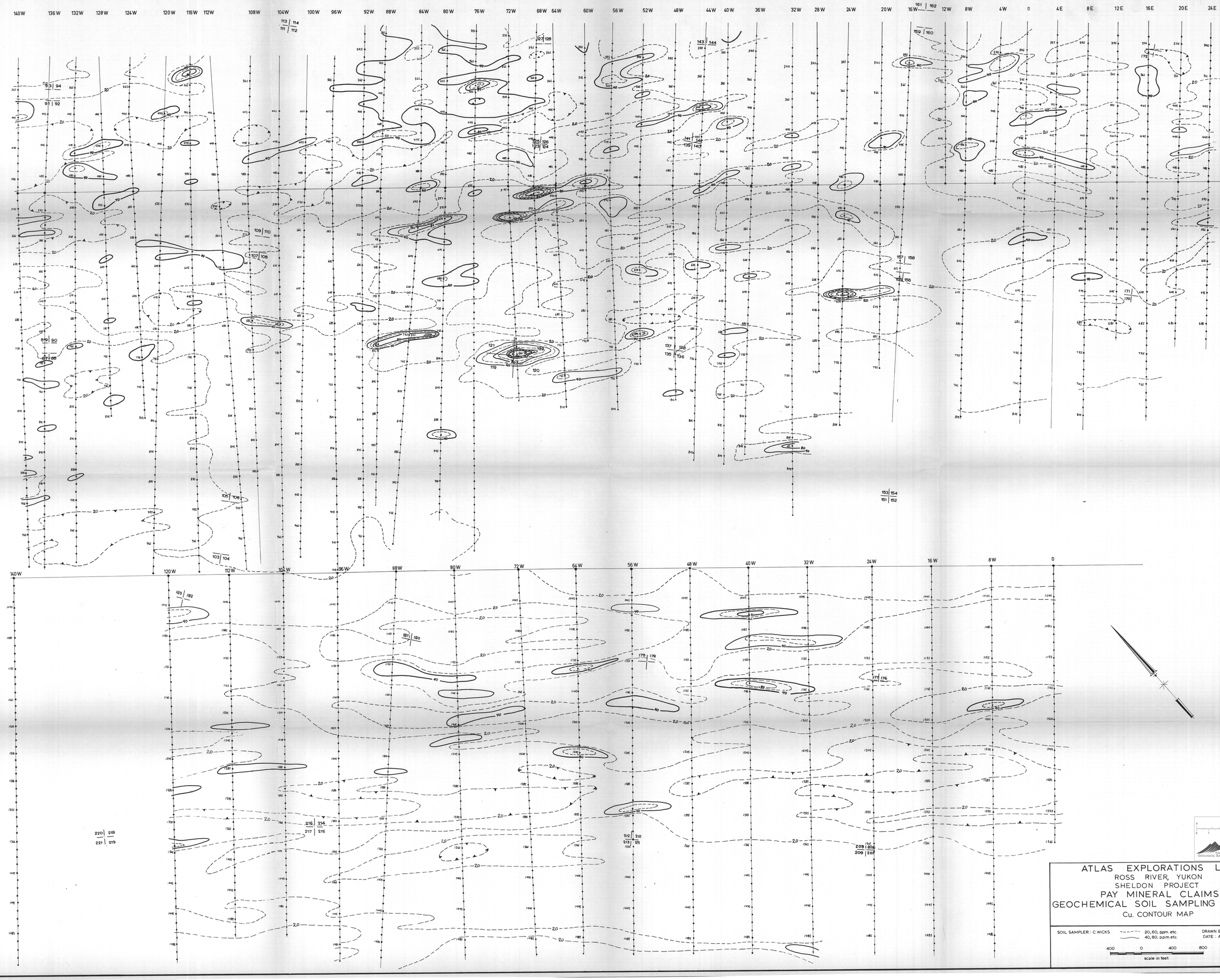
DATE: AUGUST 1967

400 0 400 800

scale in feet

This reference scale for the original map. A full scale at the same rate of reduction as this can be used as a guide for the original size.

YUKON GEOLOGICAL SURVEY



Inches
0 1 2
centimetres
0 1 2 3 4 5

YUKON GEOLOGICAL SURVEY

This reference scale for the original image. It will scale at the same rate as the original and can be used as a reference for the original size.

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ROSS RIVER, YUKON
SHELDON PROJECT
PAY MINERAL CLAIMS
GEOCHEMICAL SOIL SAMPLING SURVEY
Cu. CONTOUR MAP

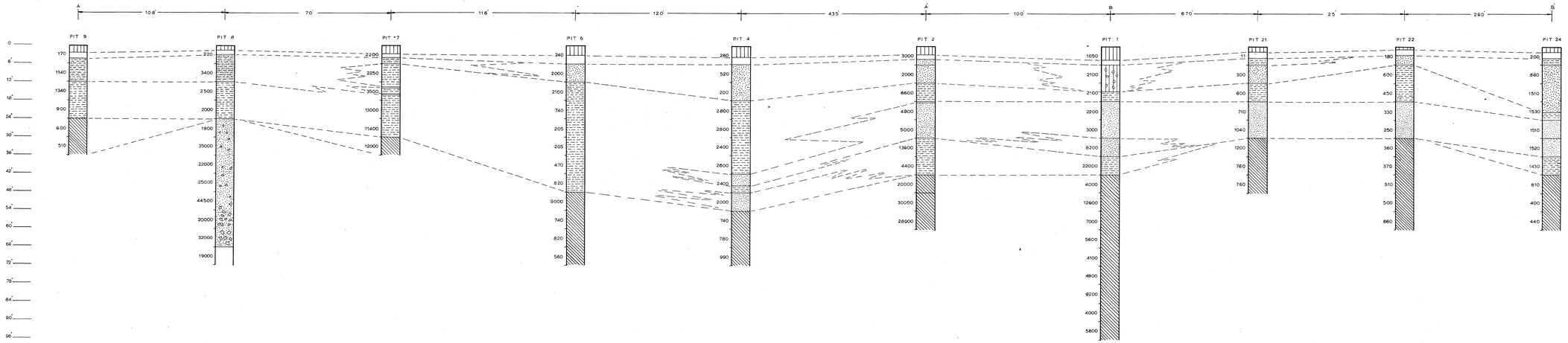
SOIL SAMPLER : C.WICKS

20, 60, ppm. etc.
40, 80. p.p.m. etc.

DRAWN BY: J.N. BOATENG
DATE : AUGUST 1967

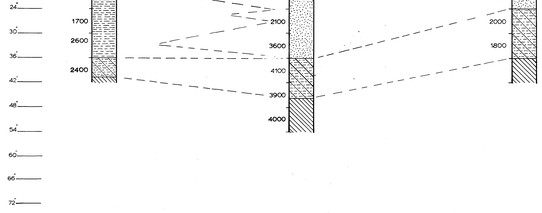
400 0 400 800
scale in feet

SOIL PROFILES A-A'

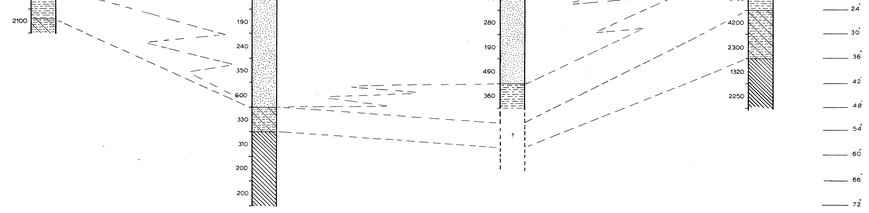


SOIL PROFILES B-B'

SOIL PROFILES C-C'



SOIL PROFILES D-D'



DARK BROWN - BLACK ORGANIC MATERIAL

ORGANIC MATERIAL MIXED WITH PEBBLES - 25%

VOLCANIC ASH

LIGHT BROWN TO GREY - BROWN SANDY CLAY

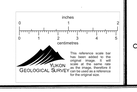
MEDIUM TO DARK GREY BROWN CLAY

DARK GREY TO BROWN SILTY TO SANDY SOIL

LIGHT GREY - BROWN SANDY SOIL

DARK GREY - BLACK CLAY. COMPOSED ENTIRELY OF DECOMPOSED PHYLLITE

BLACK FRAGMENTED PHYLLITE



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ROSS RIVER (Y.T.)

SHELDON REGION

PAY MINERAL CLAIMS

PIT SOIL PROFILES

COMPILED BY: R. DARNEY
W. ROBERTS

P.P.M. ZINC

DRAWN BY: R. DARNEY
DATE: NOV. 1967

144W 140W 136W 132W 128W 124W 120W 116W 108W 104W 100W 96W 92W 88W 84W 80W 76W 72W 68W 64W 60W 56W 52W 48W 44W 40W 36W 32W 28W 24W 20W 16W 12W 8W 4W 0 4E 8E 12E 16E 20E 24E

BASE LINE 2

BASE LINE 3

A

B

N

ATLAS EXPLORATIONS LIMITED

ROSS RIVER (Y.T.)

SHELDON REGION

PAY MINERAL CLAIMS

GROUND MAGNETOMETER SURVEY

VALUES & PROFILES

INSTRUMENT :

A JALANDER

B SHARPE MF1

OPERATOR: P. DEAN

DRAWN BY: Blb

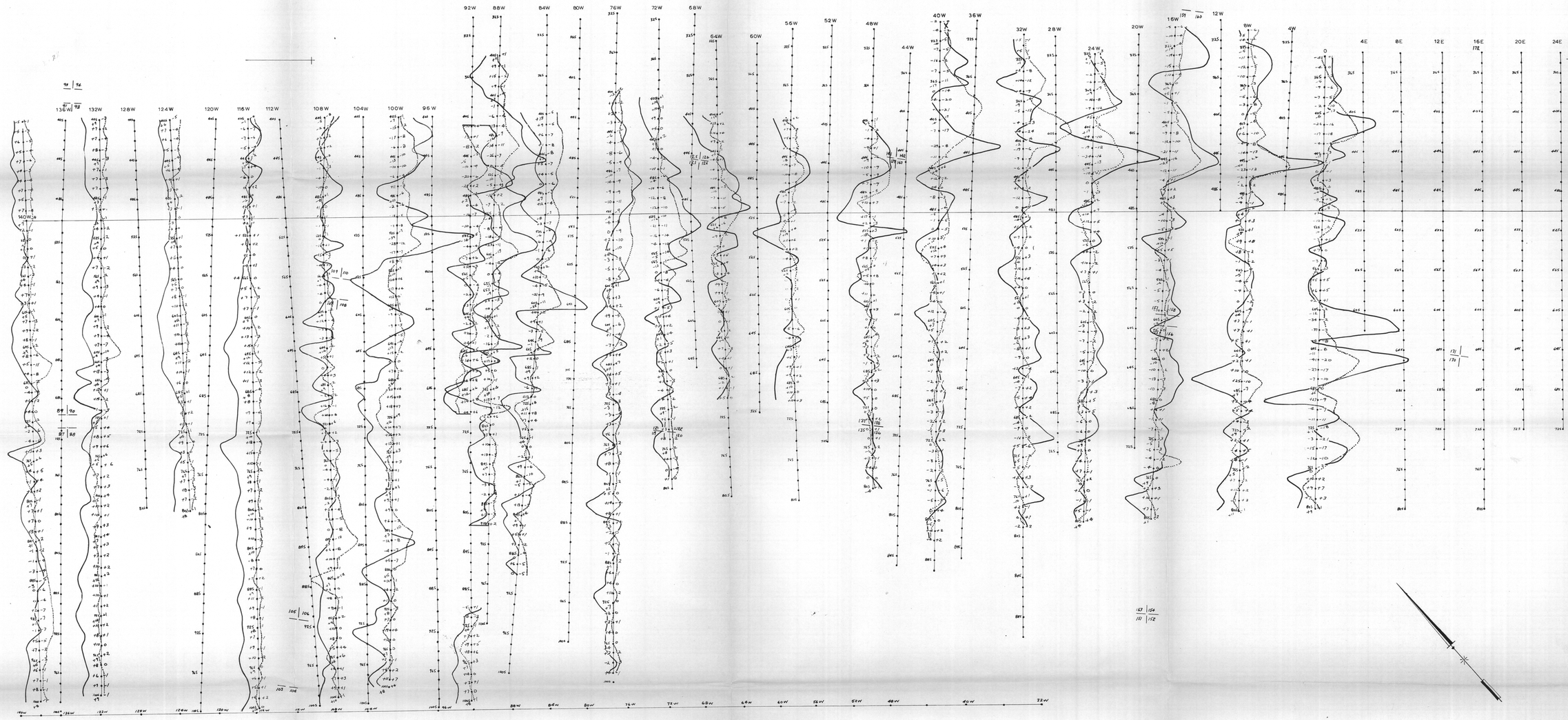
DATE: AUG./ 67

PROFILE SCALE: 1/10"= 100'

inches 0 1 2 centimetres 0 1 2 3 4 5

This reference scale bar has been added to the original plan by the Yukon Geological Survey. Some data may be illegible or missing on the image if reduction is made from the original size.

YUKON GEOLOGICAL SURVEY



ATLAS EXPLORATIONS LIMITED

ROSS RIVER (Y.T.)

SHELDON REGION

PAY MINERAL CLAIMS

GROUND ELECTROMAGNETIC SURVEY

VALUES & PROFILE MAP

INSTRUMENT: RONKA EM 16 — DRAWN BY: Blake

OPERATOR: V. PRATICO — DATE: NOV. 1967

high freq. — quadrature

+dip — −dip

PROFILE SCALE 1/10" = 2°dip angle

400 0 400 800

scale in feet

inches 0 1

centimetres 0 2 4 6

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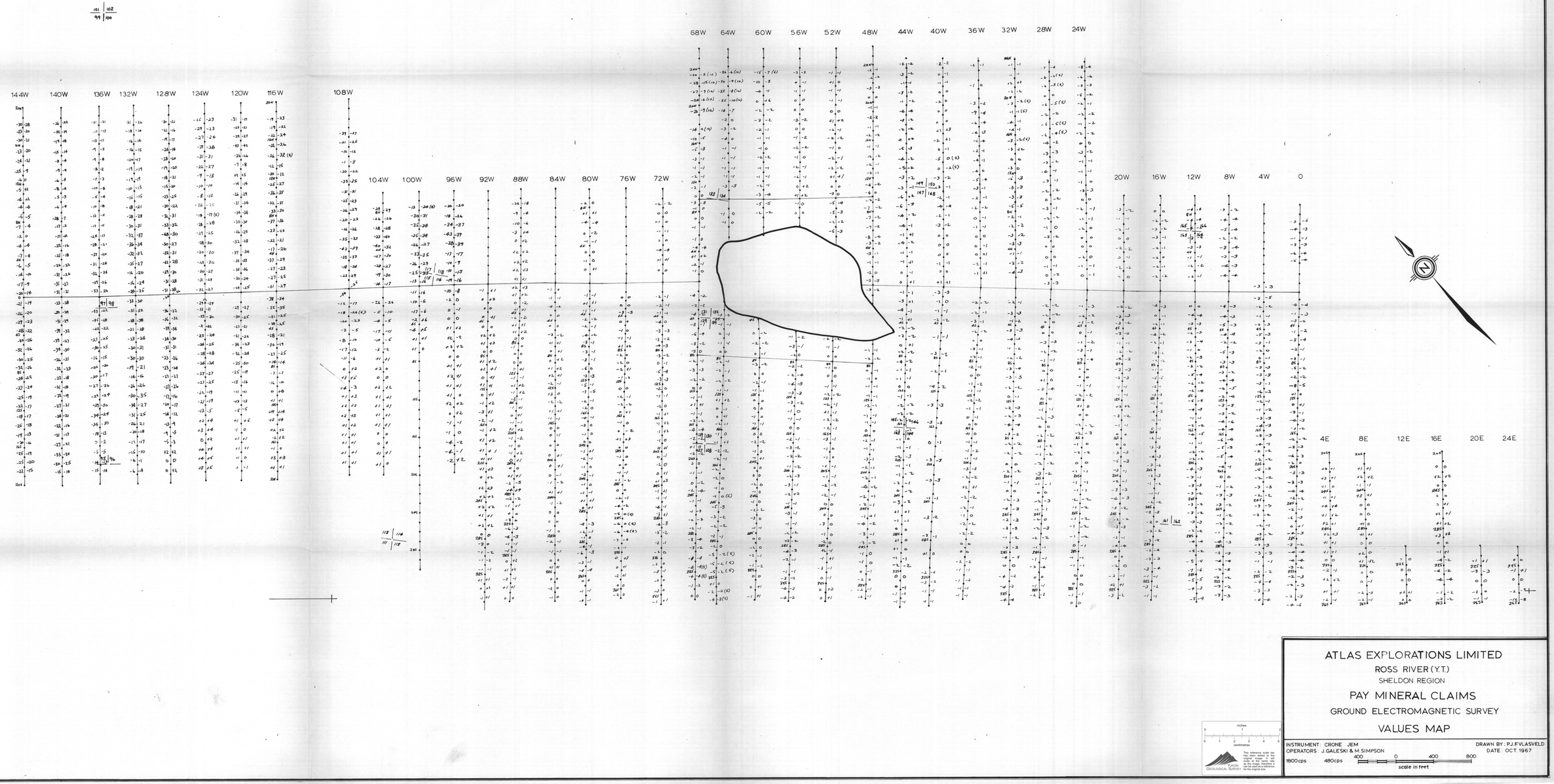
YUKON GEOLOGICAL SURVEY



ATLAS EXPLORATIONS LIMITED

ROSS RIVER (Y.T.)

SHELDON REGION

PAY MINERAL CLAIMS

GROUND ELECTROMAGNETIC SURVEY

VALUES MAP

INSTRUMENT: CRONE JEM
OPERATORS: J. GALESKI & M. SIMPSON

DRAWN BY: P.J.F.VLASVELD
DATE: OCT. 1967

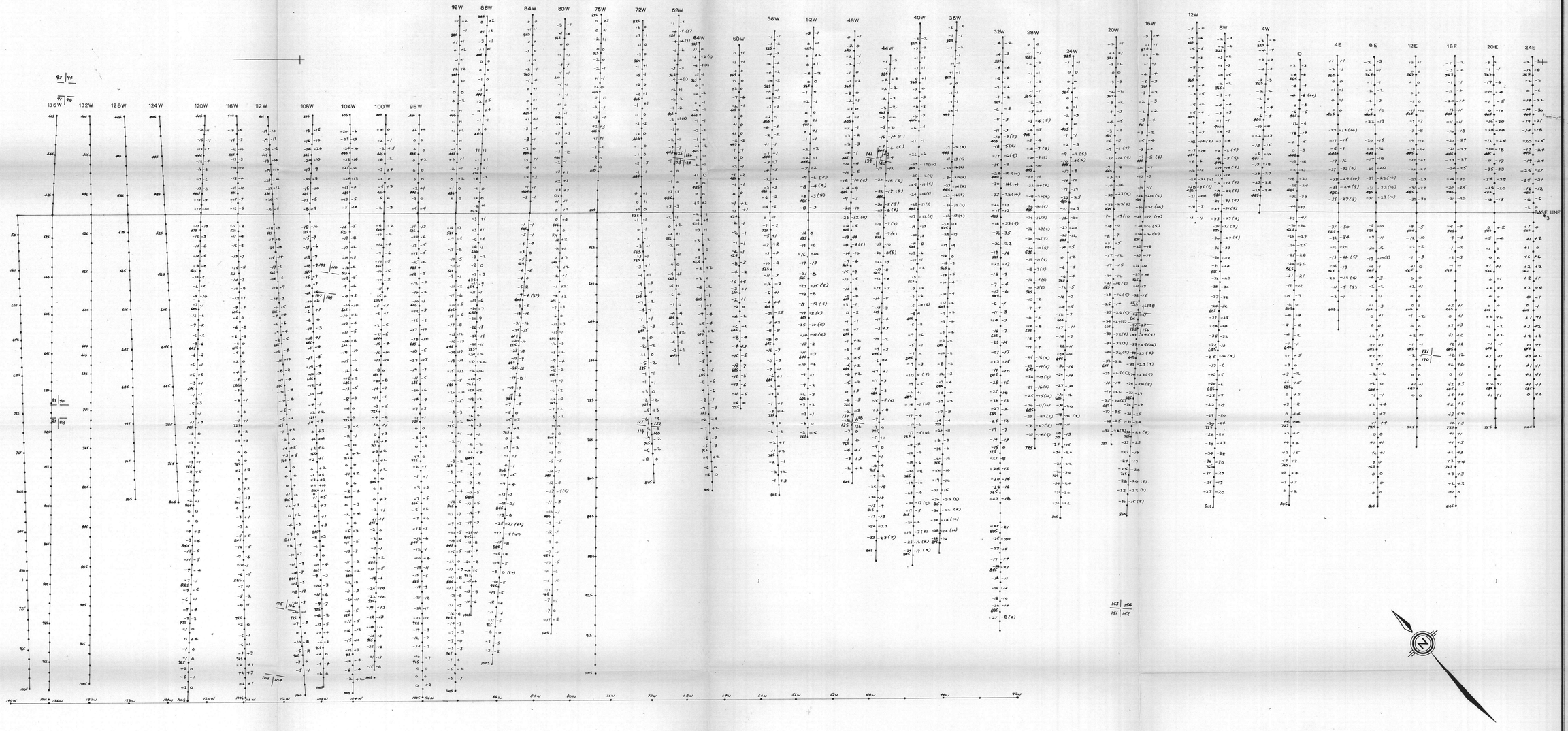
1800cps 480cps

400 0 400 800
scale in feet

inches
centimeters
This reference scale bar has been added to the original plan to allow for scale at the same ratio as the image, therefore a correct scale cannot be given for the original size.

YUKON GEOLOGICAL SURVEY

Fig. 15



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ROSS RIVER (Y.T.)

SHELDON REGION

PAY MINERAL CLAIMS

GROUND ELECTROMAGNETIC SURVEY

VALUES MAP

INSTRUMENT: CRONE JEM — DRAWN BY: [illegible]

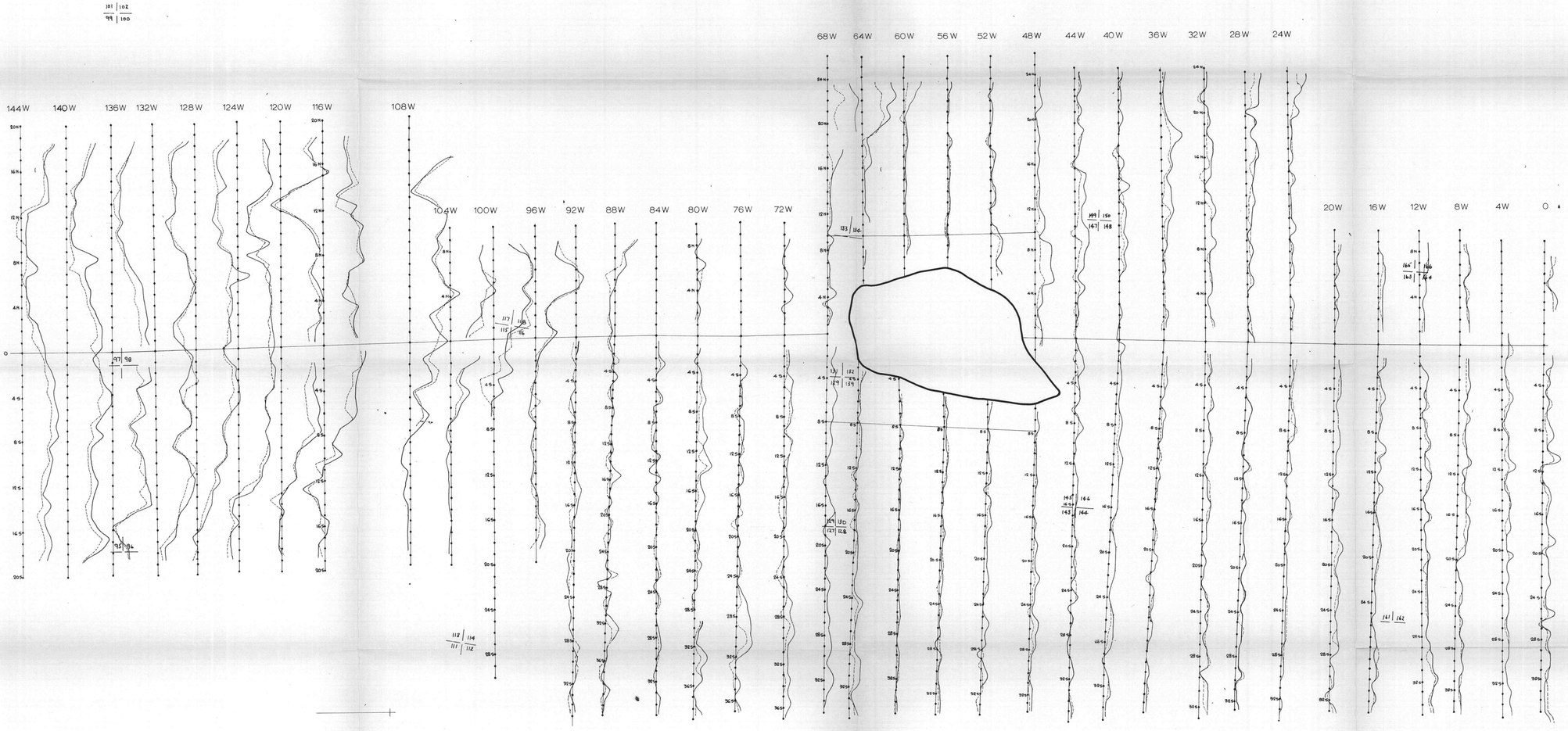
OPERATORS: J. GALESKI & M. SIMPSON — DATE: SEPT. 1967

1800cps | 480cps

400 0 400 800

scale in feet

This reference scale for the original map. A reduction of the same ratio should be used as a reference for the original size.
YUKON TERRITORY GEOLOGICAL SURVEY



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ROSS RIVER (Y.T.)

SHELDON REGION

PAY MINERAL CLAIMS

GROUND ELECTROMAGNETIC SURVEY

PROFILE MAP

INSTRUMENT: CRONE JEM — DRAWN BY: P.J.F. VLASVELD

OPERATORS: J. GALESKI & M. SIMPSON — DATE: OCT. 1967

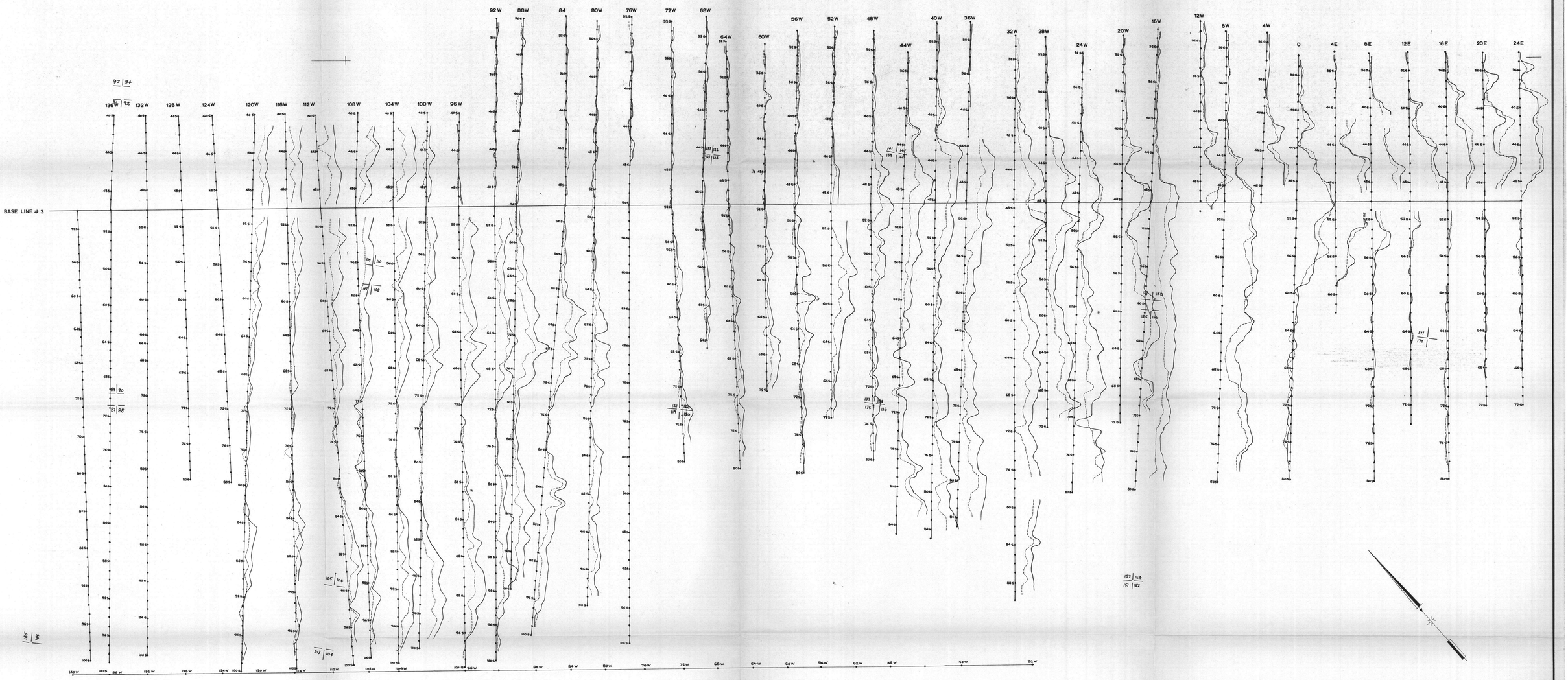
1800 cps — 480 cps

400 0 400 800

scale in feet

+ve — —ve

PROFILE SCALE: 1/10" = 4° dip angle



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ROSS RIVER (Y.T.)

SHELDON REGION

PAY MINERAL CLAIMS

GROUND ELECTROMAGNETIC SURVEY

PROFILE MAP

INSTRUMENT: CRONE JEM

OPERATORS: J.GALESKI & M.SIMPSON

1800 cps — 480 cps

DRAWN BY: P.J.F.VLASVELD

DATE: SEPT. 1967

400 0 400 800

scale in feet

PROFILE SCALE 1/10"=4" dip angle

YUKON GEOLOGICAL SURVEY

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Fig. 18

144W 140W 136W 132W 128W 124W 120W 116W 108W 104W 100W 96W 92W 88W 84W 80W 76W 72W 68W 64W 60W 56W 52W 48W 44W 40W 36W 32W 28W 24W 20W 16W 12W 8W 4W 0W 4E 8E 12E 16E 20E 24E

BASE LINE 2

BASE LINE 3

ATLAS EXPLORATIONS LIMITED

ROSS RIVER (Y.T.)

SHELDON REGION

PAY MINERAL CLAIMS

GROUND ELECTROMAGNETIC SURVEY

CONTOUR MAP

INSTRUMENT: CRONE JEM

OPERATORS: J. GALESKI M. SIMPSON

DRAWN BY: Blake

DATE: NOV. 1967

400 0 400 800

scale in feet

CONTOUR INTERVAL: 4 dip angle (high freq. 1800 c.p.s.)

YUKON GEOLOGICAL SURVEY

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144W 140W 136W 132W 128W 124W 120W 116W 108W 104W 100W 96W 92W 88W 84W 80W 76W 72W 68W 64W 60W 56W 52W 48W 44W 40W 36W 32W 28W 24W 20W 16W 12W 8W 4W 0 4E 8E 12E 16E 20E 24E

BASE LINE 2

NOTE: This section using profile scale 1/10" = 4"

ATLAS EXPLORATIONS LIMITED

ROSS RIVER (Y.T.)

SHELDON REGION

PAY MINERAL CLAIMS

GROUND ELECTROMAGNETIC SURVEY

VALUES & PROFILE MAP

INSTRUMENT: RONKA E.M. 16

OPERATOR: V. PRATICO

DRAWN BY: [illegible]

DATE: NOV. 1967

high freq. — quadrature — +ve — −ve

400 0 400 800

scale in feet

PROFILE SCALE 1/10" = 2° dip angle

YUKON GEOLOGICAL SURVEY

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48W

BL 50S

CAT TRENCH #1

CAT TRENCH #2

CAT TRENCH #3

WDH #1

WDH #2

WDH #3

WDH #4

WDH #5

WDH #6

WDH #7

WDH #8

WDH #9

Depth 2.5' - No bedrock. Dark brown silty clay overburden with abundant angular fragments of white quartz.

ATLAS EXPLORATIONS LIMITED

ROSS RIVER (Y.T.)

AY CLAIMS, SHELDON REGION

PAY TRANSIT-STADIA TRAVERSE OF CUT LINES ON GRID

400 0 400 800

scale in feet

SURVEYED BY : P. SANDALUK
ROD: M. SHORTY, P. DEAN, M. PETER

DRAWN BY : P.J.F. VLASVELD
DATE : JUNE 1967

YUKON GEOLOGICAL SURVEY

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