REPORT ON HAND TRENCHING, BULLDOZER TRENCHING, ENGINEERING EVALUATION AND DIAMOND DRILLING

on

PAY MINERAL CLAIMS
Watson Lake Mining Division
Yukon Territory

Claim Sheets 105-J-1, 105-J-2
105-G-15, 105-G-16

Latitude 62 deg. 00' N.

Longitude 130 deg. 35' W.

Atlas Explorations Limited

by

Robert J. Darney

November 8, 1967

PAY MINERAL CLAIMS

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PAY MINERAL CLAIMS

PAY 87 - 166	Y16981 - 17060	Recorded November 6, 1966
PAY 168 - 203	Y17793 - 17829	Recorded June 23, 1967

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ATLAS EXPLORATIONS LIMITED
(N.P.L.)
330 MARINE BUILDING
355 BURRARD STREET
VANCOUVER 1, B.C.

INTRODUCTION

The Pay Mineral Claims 1 - 16, were optioned from R. McBean of Vancouver, B. C. on August 13, 1966. During October, 1966, Pay 17 - 86 were added to the original group for protective measures. As a result of reconnaissance prospecting and geochemical soil sampling during September and October of 1966, Pay 87 - 166 were staked in November of the same year. Further claims, Pay 167 - 203 were added in June, 1967 when geologic, geochemical and geophysical surveys proved encouraging.

In August, 1967, Pay 204 - 221 were staked for protective measures. In August 1968, Zn. Mineral Claims 1 - 2 were optioned from Gunter Lishy of Cassier, B. C. The Phil Mineral Claims 1 - 42 were staked in late August, 1967 for protective measures.

During the 1967 field season, a grid was cut on the Pay Mineral Claims. This grid consists of 496,900 feet of cut line with a 14,800 foot base line, bearing 312 deg. Cross lines at 400 foot spacing with 100 foot station intervals have been cut. A second base line at 50+00S was cut. Using grid stakes for location, geologic, geochemical and geophysical surveys were done. As a result of these surveys, broad areas of anomalous geochemistry and electromagnetics were discovered. An outcrop of Line 48+00W., 51+00S disclosed veined and disseminated zinc mineralization in a silicified dolomite. It was in this area that hand trenching and Winkie Drilling was initiated.

LOCATION AND ACCESS

The center of the Pay group is located about 4-1/2 miles east of Fortin Lake and approximately eight miles southwest of the Pelly Lakes post, at latitude 62 deg. 00' North and longitude 130 deg. 35' West. Fortin and Pelly Lakes are suitable for all types of float-equipped aircraft. For much of the 1967 field season, the Pay base camp was situated north of the Pay grid on a small unnamed lake (Pay Lake). In early August, 1967, this base camp was moved to a new location on the east shore of Fortin Lake where access by float aircraft was much easier.

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 can be travelled in summer by wide-tracked vehicles and tractors, and most wheeled vehicles during winter months.

GEOLOGY

Geologic mapping on the Pay grid was done on 1:1000 (photo overlay) and 1:400 (grid plan).

Geology consists of a sequence of folded and faulted metasediments that have a general northwesterly attitude. The structure consists of three structural blocks separated by two southwesterly-dipping normal faults. The northeasterly block (north of base line 0) consists of banded chert, phyllite and dolomite in an open anticlinal structure plunging 20 deg. to the northwest.

The center block, to the southeast is composed of younger phyllites, spotted phyllites and dolomite which have an isoclinal syncline structure also plunging to the northwest.

The third block, southeast of the Boundary Fault, an upward extension of the center block is composed of carbonaceous dolomite and phyllite. The isoclinal style of folding is retained within this block, but to a lesser amplitude than in the center block. It is in this carbonaceous dolomite of the third block that the host dolomite appears as an interbedded member.

GEOCHEMISTRY

A broad zone of anomalous geochemistry occurs in the southwestern section of the grid area. The extent of the anomaly is 13,200 feet in length and averages about 800 feet wide. The zone consists of at least five elongate highs of over 1,000 ppm. Zn. with peak values up to 9,000 ppm.

TRENCHING

On July 1, 1967, a hand trenching program was initiated by T. Skonseng at L48W, 51S where a mineralized outcrop was coincident with a broad zone of anomalous geochemistry. Between this time and August 1st, a total of three hand trenches and 24 pits were dug. These pits and trenches were concentrated in an area between Line 40W and 60W from 48S to 59S.

The following is a tabulation of the hand trenches and pits:

Trench	Dimensions (in feet)	Volume (in cubic feet)
1	110 x 3.5 x 4.0	1540
2	25 x 2.5 x 3.5	218.75
3	17 x 3.5 x 5.5	327.25

Pit	Dimensions (in feet)	Volume (in cubic feet)
1	7 x 4.5 x 8	252
2	5 x 4.5 x 6	135
3	5 x 3 x 2.5	37.5
4	4 x 4 x 4	64
5	2 x 2 x 1.6	6.4
6	8 x 4 x 6	192
7	4 x 4 x 2	32
8	6 x 3 x 7	126
9	17 x 3.5 x 2	119
10	7 x 3.5 x 5	122.5
11	9 x 3.5 x 4	126
12	10 x 3.5 x 5	175
13	10 x 3.5 x 4	140
14	6 x 3.5 x 5	105
15	5 x 3 x 3.5	52.5
16	4 x 3 x 3.5	42
17	4 x 3 x 3	36
18	5 x 3.5 x 2	35
19	6 x 3 x 3.5	63
20	6 x 4 x 3	72
21	8 x 4 x 4.5	144
22	7 x 4 x 5	140
23	7 x 4 x 8	224
24	6 x 3 x 4	72
	TOTAL	4,599 cubic feet
		170.3 cubic yards

Depth of overburden in this general area made hand trenching highly impractical therefore in early August, a D-7E Cat was used for further trenching. A total of three trenches were dug on the Pay,

The following is a tabulation of bulldozer trenching done:

Number	Dimensions (in feet)	Volume (in cubic feet)
Pay		
1	110 x 25 x 8	22,000
2	180 x 25 x 15	67,500
3	110 x 35 x 6	23,100
		112,600 cubic feet
		4,170 cubic yards

Total Volume Removed in hand and bulldozer trenches - 4,340 cubic yards.

Work was under contract by Liard Construction. One shift of 10 hours per day was run during the first two weeks in August of 1967.

During the same period, a tote-trail was constructed from the area of the main showing (Line 48W,51S) to the east shore of Fortin Lake.

Methods of Sampling and Assaying

All sampling of hand and bulldozer trenches was done by R. Darney and W. Roberts. "Overall chip" samples, bagged in five-foot sections, were taken in hand trenches 1 and 2. The "continuous chip" method, bagged in five-foot sections was used in Cat Trench #2

Samples from hand trenches were sent to Atlas Explorations Geochemical Laboratory, Ross River, Y. T. and run for Pb., Zn., Cu., Ag., then forwarded to Whitehorse Assay Office to be run for Cd. All bulldozer trench samples were sent directly to Whitehorse Assay Office and run for Pb., Zn., Cu., Ag., Cd.

Tabulated Results of Assays

The following are lists of assay results from trench samples as well as average results for Zn. across potential sections:

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
Avg. 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. length 90 feet
Avg. 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'
Avg. Zn. 1.42%

Diamond Drilling

A Winkie Drill, purchased by Atlas in October, 1966, was used in an attempt to find the extension of the main showing. However, the extreme depth of overburden and highly fractured nature of the rock units made drilling difficult and core recovery low. Several holes were abandoned at only a few feet. The driller was B. Morrisson, and he was assisted by C. Boiteau.

The following is a list of drill holes and locations:

No.of Hole	Latitude	Departure	Depth	Remarks
WDH # 1	50' NE of L48W, 8N		97'	Overburden
WDH # 2	20' NE of L48W, 52S	70' SE of L48, 52S	10'	No log
WDH # 3	25' NE of L48W, 52S	50' SE of L48, 52S	8'	No log
WDH # 4	15' NE of L48W, 52S	40' SE of L48, 52S	8'	No log
WDH # 5	40' NE of L48W, 53S	70' SE of L48, 53S	6'	No log
WDH # 6	L32W, 45S		49'	
WDH # 7	25' NE of L32, 48S	140' NW of L32, 48S	58'	Overburden, No log
WDH # 8	15' SW of L32, 47S	160' NW of L32, 47S	98'	
WDH # 9	50' NE of L32, 44S		28'	No log
WDH #10	70' NE of L32, 44S		51'	
WDH #11	50' SW of L88, 71S		94'	
WDH #12				
(a)	50' SW of L88, 70S		22'	Dip 90 deg. No log
(b)	50' SW of L88, 70S			Dip 60 deg. NE - No log
WDH #13	L124, 71S		72'	Overburden
WDH #14	50'S of L88, 69S		88'	
WDH #15	30' NE of L48, 52S	120' SE of L48, 52S		No log
WDH #16	28' NE of L48, 52S	120' SE of L48, 52S		No log
WDH #17	35' NE of L48, 52S	120' SE of L48, 52S		No log

Logs of drill holes attached.

DIAMOND DRILL RECORD,

HOLE NO. WDH #6

PROPERTY ATLAS-SHELDON-PAY

SHEET NUMBER 1 | SECTION FROM ____ TO ____ | STARTED July 9, 1967

LATITUDE L32W, 45S | DATUM ____ | COMPLETED July 10, 1967

DEPARTURE ____ | BEARING ____ | ULTIMATE DEPTH ____

ELEVATION ____ | DIP 90 deg. | PROPOSED DEPTH ____

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS AG.	CU.	PB.	ZN.	SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS AG.	CU.	PB.	ZN.
0-18	O.B.													
18-28		light grey-black argillaceous dolomite	1	18'		40 ppm	3,440 ppm	200 ppm						
		laminated and cut by calcite stringers	2	23'		40 ppm	656 ppm	36 ppm						
		Contains up to 5% pyrite concentrated												
		along lamination. Core angle 45 deg.												
		Very slightly conductive. Reactive with HCL.												
28-33		Black finely laminated carbonaceous	3	28'		34 ppm	408 ppm	82 ppm						
		dolomite. Slowly reactive with HCL.	4	33'		32 ppm	360 ppm	24 ppm						
		Moderately conductive. Contains												
		disseminations & concentrations of pyrite-												
		5%. Some blebs range to 1/4 inch in dia.												
		Core angle 40 deg.												

DIAMOND DRILL RECORD,

HOLE NO. WDH #8

PROPERTY ATLAS-SHELDON-PAY

SHEET NUMBER 1 | SECTION FROM 0 Feet TO 61 Feet | STARTED July 14, 1967

LATITUDE 15' SW of L32, 47S | DATUM | COMPLETED July 17, 1967

DEPARTURE 160' NW of L32, 47S | BEARING | ULTIMATE DEPTH

ELEVATION | DIP 90 deg. | PROPOSED DEPTH

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS AG.	CU.	PB.	ZN.	SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS AG.	CU.	PB.	ZN.
						PPM	PPM	PPM						
0-41	O.B.													
41-42	30%	Light-grey-black, laminated argillaceous	1	41'		23	136	30						
		dolomite. Finely disseminated pyrite 1-												
		10%. Core angle 55 deg. Moderately												
		reactive with HCL. Slightly conductive.												
42-61	55%	Black, finely laminated carbonaceous	2	42'		41	90	3500						
		dolomite. Slowly reactive with HCL.	3	45'		18	102	70						
		Between 5-10% carbon. Pyrite is	4	50'		24	76	160						
		disseminated throughout, but is mostly	5	55'		50	60	260						
		concentrated parallel to laminations.												
		Pyrite 5%. Core angle 52 deg. Rock highly												
		conductive.												
61-65	85%	Light grey-black, laminated argillaceous	6	61'		18	80	35						
		dolomite. Finely diss. pyrite 1-10%												
		Core Angle 50 deg.												

DIAMOND DRILL RECORD,

HOLE NO. WDH #8

PROPERTY ATLAS-SHELDON-PAY

SHEET NUMBER 2 | SECTION FROM 61 Feet TO 73 Feet | STARTED July 14, 1967

LATITUDE 15' SW of L32, 47S | DATUM | COMPLETED July 17, 1967

DEPARTURE 160' NW of L32, 47S | BEARING | ULTIMATE DEPTH

ELEVATION | DIP 90 deg. | PROPOSED DEPTH

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS AG.	CU. PPM	PB. PPM	ZN. PPM	SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS AG.	CU.	PB.	ZN.
61-65	(cont'd.)	moderately reactive with HCL. Dolomite	7	65'		9	66	26						
		itself is very slightly conductive, but												
		pyrite concentrations on lamination planes												
		is highly conductive.												
65-72	40%	Light-grey-black laminated argillaceous	8	66'		9	62	23						
		dolomite. Moderately reactive with HCL.	9	72'		15	52	21						
		Pyrite 5% More massive than previous run.												
		Core angle 50 deg. Very slightly conduct.												
72-73	50%	Dark grey-black carbonaceous dolomite	10	72.5 pyrite	bleb	27	110	26						
		finely laminated; minor diss. pyrite.												
		Core Angle 55 deg. Moderately conductive.												
73-76	60%	Grey, finely crystalline dolomite	11	75'		11	38	17						

DIAMOND DRILL RECORD,

HOLE NO. WDH #8

PROPERTY ATLAS-SHELDON-PAY

SHEET NUMBER 3 | SECTION FROM 73 TO 79 | STARTED July 14, 1967

LATITUDE 15' SW of L32, 47S | DATUM | COMPLETED July 17, 1967

DEPARTURE 160' NW of L32, 47S | BEARING | ULTIMATE DEPTH

ELEVATION | DIP 90 deg. | PROPOSED DEPTH

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS AG.	CU. PPM	PB PPM	ZN PPM	SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS AG.	CU.	PB.	ZN.
73-76	Con't.	Moderately reactive with HCL. Cut by												
		carbonate stringers 1/16" in width.												
		Core angle 35 deg. Several of the												
		carbonate stringers are vertical. Not												
		conductive and contains only very minor												
		pyrite.												
6-79	85%	Dark grey-black carbonaceous dolomite.	12	77'		24	68	30						
		Has lighter coloured appearance due to												
		extremely irregular interlayering with												
		segregated carbonate (calcite)												
		Moderately conductive and reactive with												
		HCL. Minor diss. pyrite. Core angle												
		60 deg.												
79-90	20%	Dark grey, laminated carbonaceous	13	80		18	48	30						
		dolomite. Slowly reactive												

DIAMOND DRILL RECORD,

HOLE NO. WDH #8

PROPERTY ATLAS-SHELDON-PAY

SHEET NUMBER 4 | SECTION FROM 79 TO 98' | STARTED July 14, 1967

LATITUDE 15' SW of L32, 47S | DATUM | COMPLETED July 17, 1967

DEPARTURE 160' NW of L32, 47S | BEARING | ULTIMATE DEPTH

ELEVATION | DIP 90 deg. | PROPOSED DEPTH

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS AG.	CU PPM	PB PPM	ZN PPM	SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS AG.	CU.	PB.	ZN.
9-90	(cont	d.) with HCL. Moderately conductive.	14	90'		20	54	23						
		Core angle 50 deg. Pyrite 1%												
		diss. and in blebs up to 1/2" in dia.												
0-98	65%	dark grey-black, laminated carbonaceous	15	95'		22	46	17						
		dolomite. Slightly conductive. Slowly	16	98'		19	46	17						
		reactive with HCL. Core angle 50 deg.												
		Hole terminated in same at 98'												

DIAMOND DRILL RECORD,

HOLE NO. WDH #10

PROPERTY ATLAS-SHELDON-PAY

SHEET NUMBER 1 | SECTION FROM 0 TO 49' | STARTED July 19, 1967

LATITUDE 70' NE of L32, 44S | DATUM | COMPLETED July 22, 1967

DEPARTURE | BEARING | ULTIMATE DEPTH

ELEVATION | DIP 90 deg. | PROPOSED DEPTH

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS AG.	CU. PPM	PB. PPM	ZN. PPM	SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS AG.	CU.	PB.	ZN.
-22	O.B.													
2-30'	15%	Dark grey carbonaceous dolomite. Several	1	25'		22	62	26						
		quartz veins 1/2 inches wide with minor												
		pyrite. Slowly reactive with HCL and												
		weakly conductive. Core angle 6 5 deg.												
0-49	50%	Light grey, finely laminated carbonaceous												
		dolomite. Core angle 60 deg. Very weakly	2	30'		34	62	17						
		conductive Moderately reactive with HCL.	3	35'		18	64	30						
		Several calcite stringers from 1/16" - 1/4"	4	40'		11	70	48						
		width. Minor pyrite.	5	45'		19	78	26						
			6	49'		13	78	21						
		Hole terminated.												

DIAMOND DRILL RECORD,

HOLE NO. WDH #11

PROPERTY ATLAS-SHELDON-PAY

SHEET NUMBER 1 | SECTION FROM 0 TO 68' | STARTED July 23, 1967

LATITUDE 50' SW of L88, 71S | DATUM | COMPLETED

DEPARTURE | BEARING | ULTIMATE DEPTH

ELEVATION | DIP 90 deg. | PROPOSED DEPTH

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS AG.	CU. PPM	PB. PPM	ZN. PPM	SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS AG.	CU.	PB.	ZN.
0-20'	O.B.													
0-30'	15%	dark grey carbonaceous dolomite with dis-	1	20-25'		33	70	200						
		cordant quartz stringers up to 1/2" in dia.												
		with minor disseminated pyrite in dolomite												
		(2%). weakly conductive; moderately												
		reactive with conc. HCL; core angle 60deg.												
0-68'	20%	Dark grey to black finely laminated very	2	30'		70	100	90						
		carbonaceous dolomite, moderately to good	3	35'		15	50	40						
		conductivity, slow reaction with HCL.	4	40'		61	90	1,640						
		Discordant calcite stringers with or with-	5	45'		36	65	200						
		out small lenses and pods of pyrite; also	6	50'		25	65	70						
		disseminated grains of pyrite in dolomite	7	55'		36	65	126						
		1%. Graphite very lustrious on	8	60'		28	70	150						
		bedding planes. Core angle -20 deg.	9	65'		28	70	200						

DIAMOND DRILL RECORD,

HOLE NO. WDH #11

PROPERTY ALTAS-SHELDON-PAY

SHEET NUMBER 2 | SECTION FROM 68' TO 94' | STARTED July 23, 1967

LATITUDE 50' SW of L88, 71S | DATUM | COMPLETED

DEPARTURE | BEARING | ULTIMATE DEPTH

ELEVATION | DIP 90 deg. | PROPOSED DEPTH

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS AG.	CU. PPM	PB. PPM	ZN. PPM	SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS AG.	CU.	PB.	ZN.
68-75'	10%	Light grey to white interbed of crystalline	10	68'		26	50	60						
		limestone with discordant bands of dark												
		grey undulating dolomite. Very minor												
		pyrite.												
75-94'	50%	Dark grey to black finely laminated, very	11	75'		15	45	30						
		carbonaceous dolomite with discordant light												
		grey to white calcite veins. Moderate to	12	80'		28	50	77						
		strongly conductive and slightly	13	85'		38	60	40						
		reactive with HCL. Calcites stringers	14	90'		58	55	170						
		generally less than 1/4" in diameter.	15	94'		66	130	80						
		1% disseminated pyrite in dolomite.												
		Core angle 25 deg. (in some sections it												
		appears to be between 20 deg. & 25 deg.												
		Hole Terminated.												

DIAMOND DRILL RECORD,

HOLE NO. WDH #14

PROPERTY ATLAS-SHELDON-PAY

SHEET NUMBER 1 | SECTION FROM 0' TO 67' | STARTED

LATITUDE 50' S of L88, 69S | DATUM | COMPLETED

DEPARTURE | BEARING | ULTIMATE DEPTH

ELEVATION | DIP 90 deg. | PROPOSED DEPTH

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS				SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS			
					AG.	CU. PPM	PB. PPM	ZN. PPM			AG.	CU.	PB.	ZN.
0-21'	O.B.													
21-25'	10%	Light brown grey dolomite and limestone	1	21-25'		33	85	90						
		h fragments average dia 1/4". Also												
		quartz fragments present. No												
		mineralization observable.												
25-67'	25%	Dark grey finely laminated dolomite with	2	25 - 30'		18	50	176						
		discordant calcite veins (light grey)	3	30-35'		36	75	176						
		minor disseminated pyrite (1%) moderate	4	35-45'		18	60	62						
		% of carbon. Slow reaction with	5	45-55'		13	50	60						
		concentrated HCL. Core angle 75 deg.	6	55-67'		15	85	73						

DIAMOND DRILL RECORD,

HOLE NO. WDH #14

PROPERTY ATLAS-SHELDON-PAY

SHEET NUMBER 2 | SECTION FROM 67' TO 88' | STARTED

LATITUDE 50' S of L88, 69S | DATUM | COMPLETED

DEPARTURE | BEARING | ULTIMATE DEPTH

ELEVATION | DIP 90 deg. | PROPOSED DEPTH

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS AG.	CU. PPM	PB. PPM	ZN. PPM	SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS AG.	CU.	PB.	ZN.
67-70'	15%	Light grey to white lens of limestone in the	7	67-70		11	55	200						
		dark grey dolomite, contains minor pyrite,												
		very reactive with HCL, not conductive.												
70-88'	10%	Dark grey to black very carbonaceous	8	70-75'		40	50	200						
		dolomite with carbon sheen on bedding	9	75-80'		40	50	66						
		planes. Finely laminated. Contains fine	10	80-88'		28	50	200						
		calcite veinlets up to 1/4 dia. discordant												
		to bedding; very conductive, very slow												
		reaction to HCL. Core angle 40 deg.												
		Hole Terminated.												

CONCLUSIONS

Through Winkie drilling and bulldozer trenching, it has been found that overburden depths in the main area of interest are much deeper than previously expected. At points where the bulldozer trenches succeeded in reaching bedrock, the mineralized zones were highly oxidized. As a result, these areas were unreliable for detailed sampling.

Although trenching has given an explanation of the anomalous geochemistry in the Line 48, 52S region, the major portion of the broad anomalous zone is unexplained.

Further trenching or Winkie drilling would be impractical due to depth of overburden. Therefore, further drilling on a larger scale would be warranted.

SUMMARY OF COSTS

Bulldozer Trenching, Bay Mineral Claims

Total volume material moved - 4,170 cubic yards

Value for trenching in accordance with "Schedule of Representation Work" $.75 per cu yd

Total Value 4,170 cu yds @ $.75 per cu yd $3,127.50

Hand Trenching, Bay Mineral Claims

Total volume material moved - 170.3 cubic yards

- Pick and shovel, through gravel 113.3 cu yds
- Frozen material and rock requiring the use of drill and explosives 57. cu yds

Value for hand trenching in accordance with Schedule of Representation Work,

113.3 cu yds @ $5.00 cu yd $ 566.50

57. cu yds @ $25.00 cu yd $1,425.00

Diamond Drilling

Costs supported by Vouchers and Invoices, copies of which are attached.

689 feet at a total cost of $17,521.42

The value for this submission is averaged at $25.00 per foot.

TELEPHONE 685-4331

(APPENDIX I(a)

ATLAS EXPLORATIONS LIMITED
(N.P.L.)
330 MARINE BUILDING
355 BURRARD STREET
VANCOUVER 1, B.C.

AFFIDAVIT SUPPORTING SUMMARY OF COSTS:

I, John S. Brock, Operations Manager, Atlas Explorations Limited of Vancouver, B.C., do hereby state that, to the best of my knowledge and belief, the statement of costs as presented in Appendix I of this Report "Hand Trenching, Bulldozer Trenching, Engineering Evaluation, and Diamond Drilling on Pay Mineral Claims" is both true and correct.

John S. Brock

A Commissioner for taking
Affidavits in the
Yukon Territory

November 14, 1967.

PAY MINERAL CLAIMS

Ground Development Personnel: May - September 1967

Party Chief	P. Nielsen, 1600 Beach, Vancouver, B.C.
Geologist	R. Darney, 304-908 6th Ave., N. Westminster
Magnetometer Operator	P. Dean, North Vancouver, B.C.
Crone EM Operators	M. Simpson, Tofino, B.C. J. Galeski, Calgary, Alberta
EM 16 Operator	V. Pratico, Vancouver, B.C.
Soil Sampler	C. Wicks, Antagowish, N.S.
Linecutters	J. Acklack) M. Shorty) F. Charlie) Ross River, Y.T. R. Etzel) W. Etzel)
Hand Trenching	T. Skonseng, Ross River, Y.T.
Helper	S. McLeod, Ross River, Y.T.
Driller	B. Morrison, Ottawa, Ont.
Driller's Helper	J. Boiteau, Quebec, P.Q.
Bombardier Driver	P. Lundt, Watson Lake, Y.T.
Cook	G. Gray, Whitehorse, Y.T.
Flunky	
Senior Geologist	C. Smith, Vancouver, B.C.
Geophysicist	J. Brock, Ross River, Y.T.

(0' – 90')

Ag	Pb	Zn	Cu	Cd
ND	ND	2.20	TR	TR
ND	.08	.8	.01	.01
ND	.01	1.45	.01	.01
.13	.45	2.15	.01	TR
ND	ND	1.05	.01	.03
ND	.01	2.75	.01	.02
.29	.03	4.3	.01	.01
.25	.01	1.5	.01	.01
ND	ND	1.4	.01	.01
ND	ND	1.95	.01	.01
ND	.05	1.40	.01	.01
ND	.06	1.65	.01	.01
ND	.01	1.55	.01	TR
ND	.16	.89	.01	TR
ND	.04	1.4	TR	TR
ND	.01	2.8	.01	.01
ND	ND	.83	.01	.02
ND	.01	4.2	.01	.01

(80' – 0')

Ag	Pb	Zn	Cu	Cd
TR	TR	TR	TR	TR
TR	TR	TR	TR	TR
TR	TR	TR	TR	TR
TR	TR	TR	TR	TR
TR	TR	TR	TR	TR
TR	TR	.3	TR	TR
TR	TR	TR	TR	TR
TR	TR	TR	TR	TR
TR	TR	TR	TR	TR
TR	TR	TR	TR	TR
TR	TR	0.1	TR	TR
TR	TR	TR	TR	TR
.02	TR	2.6	TR	0.2
TR	0.1	0.6	TR	TR

(110' – 0')

Ag	Pb	Zn	Cu	Cd
TR	TR	.5	TR	TR
TR	TR	1.3	TR	TR
TR	.1	1.9	TR	TR
TR	TR	.7	TR	TR
TR	TR	.5	TR	TR
TR	TR	.5	TR	TR
TR	TR	5.9	TR	.035
TR	TR	1.6	TR	TR
TR	TR	.6	TR	TR
TR	TR	2.3	TR	.01
TR	TR	2.9	TR	.013
TR	TR	1.2	TR	TR
TR	TR	1.6	TR	TR
TR	TR	.7	TR	TR
TR	TR	1.3	TR	TR
TR	TR	.7	TR	TR
TR	TR	TR	TR	TR
TR	TR	1.0	TR	TR
TR	TR	.4	.01	TR
TR	TR	TR	TR	TR

ATLAS EXPLORATIONS LIMITED

ROSS RIVER (Y.T.)

SHELDON REGION

PAY MINERAL CLAIMS

TRENCH & PIT LOCATION MAP

COMPILED BY: R. DARNEY, W. ROBERTS
DRAWN BY: R. DARNEY
DATE: OCT. 1967

100 0 100 200
scale in feet

ATLAS EXPLORATIONS LIMITED

ROSS RIVER (Y.T.)

PAY MINERAL CLAIMS

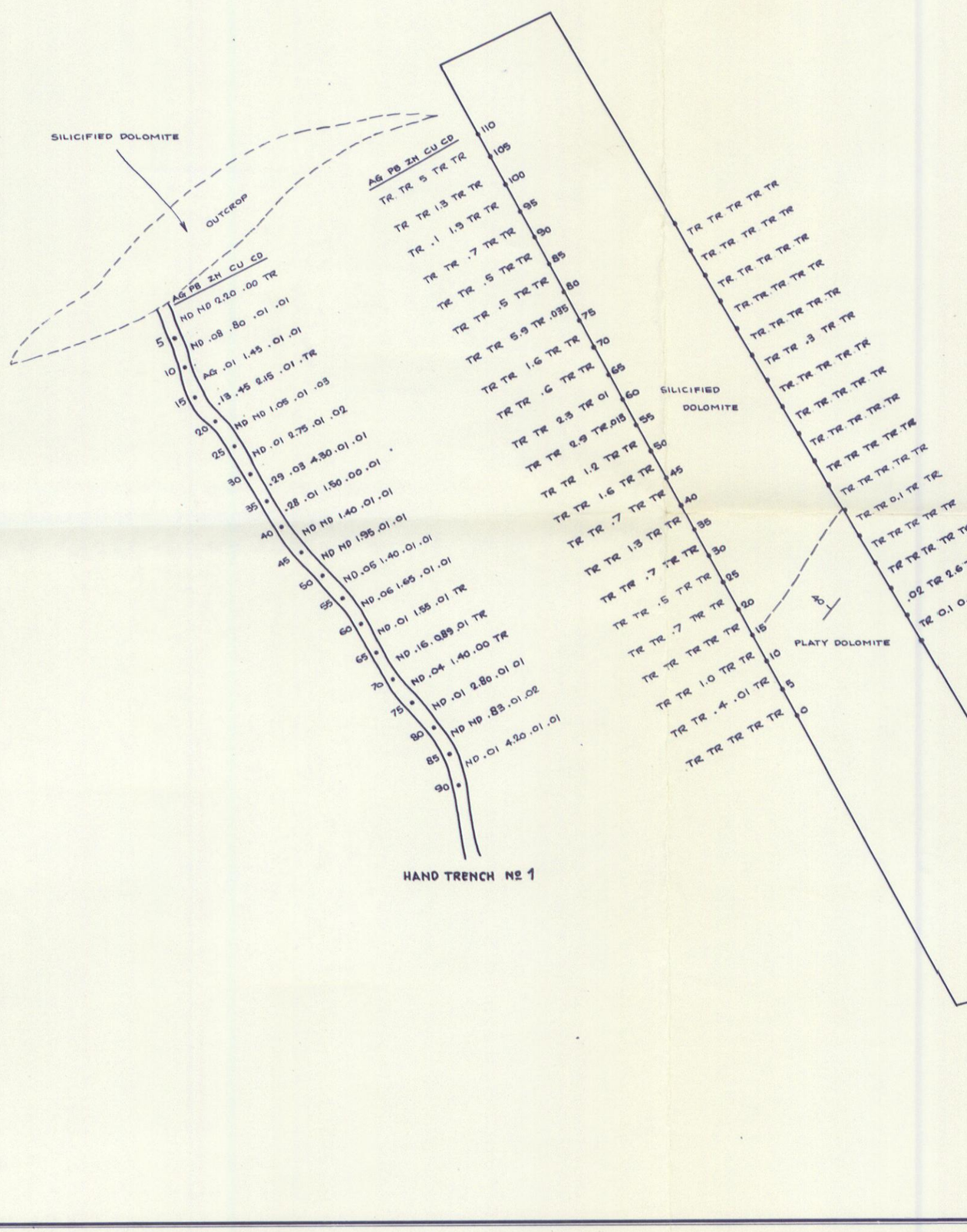
MAP OF CAT TRENCH Nº 2
" " HAND TRENCH Nº 1

scale 1" = 20'

L48W

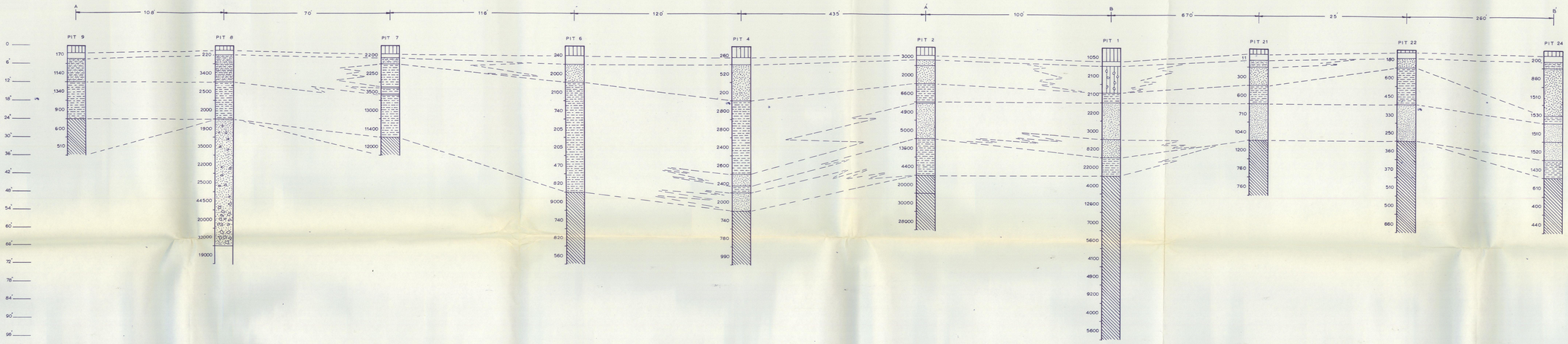
51S

53S



DRAWN: P.V.

SOIL PROFILES AA'



SOIL PROFILES BB'

SOIL PROFILES CC'

SOIL PROFILES DD'

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

F16-C.

ATLAS EXPLORATIONS LIMITED

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

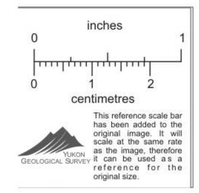
ATLAS EXPLORATIONS LIMITED

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



PELLY RIVER

130° 30'

62° 00'

FORTIN LAKE

PAY

PHIL

LINE 148 W

BASELINE 0

LINE 0

LINE 24 E

BASE LINE 50 S

LINE 80 S

OUTLINE OF GRID

6000

3000

3500

4500

P.V.