

MAP NO.: ASSESSMENT REPORT X
105 H 6 PROSPECTUS
CONFIDENTIAL X
OPEN FILE

DOCUMENT NO: 092966
MINING DISTRICT: WATSON LAKE
TYPE OF WORK: DIAMOND DRILLING

REPORT FILED UNDER: PAMICON DEVELOPMENTS LIMITED

DATE PERFORMED: JULY 1-15, 1991

DATE FILED: July 24, 1991

LOCATION: LAT.: 61°29'N

AREA: E.ARM FRANCIS LAKE

LONG.: 129°24'W

VALUE \$: 5,600

CLAIM NAME & NO.: BARB 9-15, 17-28
BETH 2, 4-27
BINTI 1-8

WORK DONE BY: MIKE STAMMERS; PAMICON DEVELOPMENTS LIMITED

WORK DONE FOR: PULSE RESOURCES LIMITED

DATE TO GOOD STANDING:

REMARKS: THE 1991 DRILL PROGRAM WAS INITIATED TO TEST GEOPHYSICAL ANAMOLIES NEAR THE MATT BERRY LEAD ZINC AG DEPOSIT. THE DRILLING RESULTED IN SEVERAL INTERSECTIONS OF BANDED SULPHIDE MINERALIZATION. SOME BEDDED PYRITE WAS INTERSECTED POSSIBLY INDICATING A STRATAFORM MASSIVE SULPHIDE MODEL FOR THE MINERALIZATION PREVIOUSLY FELT TO BE STRUCTURAL REPLACEMENT IN RECEPTIVE HOST ROCKS.

DRILL LOG

PROJECT <p style="text-align: center;">BARB</p>	GROUND ELEV. <p style="text-align: center;">962 m</p>
HOLE NO. <p style="text-align: center;">DDH PUL 91-1</p>	BEARING <p style="text-align: center;">240°</p>
LOCATION <p style="text-align: center;">MONEY ZONE L8400N, 10275E BETH 7 CLAIM</p>	DIP <p style="text-align: center;">-72°</p>
	TOTAL LENGTH <p style="text-align: center;">81.4 m 267 ft</p>
LOGGED BY <p style="text-align: center;">MIKE STAMMERZ</p>	HORIZONTAL PROJECT
DATE <p style="text-align: center;">JULY 7, 1991 -</p>	VERTICAL PROJECT
CONTRACTOR <p style="text-align: center;">FALCON DIAMOND DRILLING</p>	<p style="text-align: center;">ALTERATION SCALE</p> <p style="text-align: center;">0 1 2 3</p> <p style="text-align: center;">absent slight moderate intense</p>
CORE SIZE <p style="text-align: center;">BQ , RECOVERY 75%</p>	
DATE STARTED <p style="text-align: center;">JULY 6, 1991 DAY</p>	<p style="text-align: center;">TOTAL SULPHIDE SCALE</p> <p style="text-align: center;">0 1 2 3 4</p> <p style="text-align: center;">traces only < 1% 1% - 3% 3% - 10% > 10%</p>
DATE COMPLETED <p style="text-align: center;">JULY 6, 1991 NITE</p>	
DIP TESTS	
COMMENTS <p style="text-align: center;">HOLE DRILLED TO TEST STRATIGRAPHIC HORIZON ELSEWHERE HOSTING MATT-BERRY DEPOSIT COINCIDENT IP</p> <p style="text-align: center;">CORE STORED AT CAMP LOCATED AT THE MOUTH OF THOMPSON CREEK ON THE EAST ARM OF FRANCES LAKE</p> <p style="text-align: center;">HOLE INTERSECTED SHORT INTERVALS OF DISSEMINATED AND SEMI-MASSIVE SULFIDES, SIGNIFICANT INTERCEPTS @ 58.7-59.2 AND 61.9-62.4</p>	<p>LEGEND</p>

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.			
					A	B	C	D	E					
0-16.8				CASING										
16.8-44.5				QUARTZ-SERICITE ± PYRITE SCHIST cf Quartz-Angen Schist % CONSTITUENTS VARY THROUGH PORPHYROBLASTIC TEXTURES PHYLITIC PARTINGS (SERICITE) LIGHT GREY TO BLEACHED WHITE WISPY BANDING, NON CALCAREOUS, STRUCTURE S ₁ : 65° TCA dominant - MINOR KINK BANDING, CROSS FRACTURES - LOCAL FOLDING AS NOTED. @ 17.0 S ₁ 70-80° TCA @ 17.5 KINK FOLD F ₂ ? 10° TCA @ 19.0 S ₁ 70° TCA @ 19.1 small gray zone 50° TCA (opp S ₁) @ 20.3 limonitic fracture 5° TCA 20.5-22.2 Broken Core @ 20.5 S ₁ = 65° TCA 21.4-22.2 Low Recovery Fault Zone Gouge 20° TCA, LIMONITIC @ 22.7 S ₁ = 70° TCA 22.95-23.5 Broken Core @ 10° TCA @ 26.0 S ₁ = 65° TCA; QVL = 60° TCA opp S ₁ @ 28.4 10cm wide QVL SUB TO S ₁ 75° TCA @ 28.9 4cm wide QVL To S ₁ @ 29.0-29.6 Broken Core Gouge 50% Recovery @ 29.6-29.7 8cm wide QVL to S ₁ @ 30.2 Broken Core 10° TCA @ 31.0-31.8 BADLY BROKEN CORE, MINOR Gouge RECOVERY ~ 20%; S ₁ 10° TCA MINOR 5cm WIDE QVL 32.6-33.1 MINOR BROKEN CORE, JUGGY QUARTZ @ 34.0 S ₁ = 60° TCA @ 35.3 MINOR SLIP 50° TCA & QVL (4cm) ± CALCITE S ₁ = 65° TCA 36.9-37.1 Broken Core, MINOR Gouge 35° TCA S ₁ = 72° TCA 37.7-38.7 BROKEN CORE, @ 38.8 S ₁ = 70° TCA 40.5-40.8 BROKEN CORE 38.6-39.5 Area of Quartz Veinlets, Clay bands ± MINOR CO ₃ 41.7-41.8 Broken Core, Slip 20° TCA @ 42.0 new fabric S ₂ ? showing in core @ 40° TCA; S ₁ = 65° TCA @ 42.1 2cm QVL 80° TCA										

(down)
Box 4

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS		
		FROM	TO	WIDTH				
PYRITE A SIGNIFICANT MINERAL THROUGHOUT ; % AS NOTED TRACE TO MINOR		1						
Pyrrhotite (Po)								
Arsenopyrite (Aspy)								
Spineliferite (SP)								
@ 16.8 - 27.0 PY ≤ 1% less pyrite		16.8	18.3	1.5	2301			
		18.3	19.8	1.5	2302			
19.8 - 21.0 Local incr in Aspy to 1-2% also Po to 1-2% (in fractures, dissemin) OR PORPHYROBLASTS WISPY LAMINAE		19.8	21.3	1.5	2303			
27.0 - 29.6 INCR IN Py/Po To 1-2%		21.3	22.8	1.5	2304			
		22.8	24.3	1.5	2305			
		24.3	25.8	1.5	2306			
@ 28.2 5% soft Dirty McCallie Grey Sulphide (Aspy?) in 1.5 cm Qv // S.		25.8	27.3	1.5	2307			
		27.3	28.8	1.5	2308			
		28.8	30.3	1.5	2309			
		30.3	31.8	1.5	2310			
29.6 - 47.6 Py decr to ≤ 1% Some trace Aspy Minor Po to ≤ 1% Py > Po		31.8	33.3	1.5	2311			
		33.3	34.8	1.5	2312			
@ 30.3 - 30.7 Loc Incr Po to 2-3%								
33.6 - 34.8 " "								
@ 35.3 TRACE GALENA IN QVL / Cal		34.8	36.3	1.5	2313			
		36.3	37.8	1.5	2314			
@ 35.9 Coarse blebs of Po assoc. c a narrow Q-Cal VL		37.8	39.3	1.5	2315			
		39.3	40.8	1.5	2316			
		40.8	42.3	1.5	2317			

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
16.8-44.5				QUARTZ SERICITE SCHIST @43.5 4cm wide Qu, c Trace Gn @80° tca							
44.5-51.1				QUARTZ EYE-SERICITE SCHIST as above unit but with very distinctive smoky quartz eyes, plus white quartz in sericite matrix, pale green-grey 45.2-46.1 Broken Core, minor gouge Slips @ 35° tca @46.8 10 cm wide Qu @47.3 Slip @ 20° tca, some broken core @48.4 S ₁ = 75° tca							
51.1-53.1				QUARTZ EYE-SERICITE-PYRITE = SERICITE SCHIST unit as above but with increase in sphalerite, pyrite occurring as wispy laminations and porphs (py only) more of a 'zone'; very coarse py chlorite patches @49.8 Sp laminae S ₁ = 60° tca @52.3 S ₁ = 60° tca EYE							
53.1-58.7				QUARTZ SERICITE SCHIST AS 44.5-51.1 generally < 1% Pyrite increase chlorite laminae meta tuff fragments 53.8-53.9 broken core, minor gouge 54.1 S ₁ = 70° tca 55.8 2cm wide Qu to S ₁ = 66° tca 57.3 Fracture 10° tca (chloritic) 57.75-57.90 15cm Qu @ 80° tca 58.4 S ₁ = 70° tca							
58.7-59.2				SEMI-MASSIVE PYRITE - 50% each porphyroblastic and fine laminated pyrite. - quartz-sericite schist host rx - S ₁ 65° tca							
59.2-61.9				QUARTZ SERICITE PYRITE SCHIST as 51.1-53.1 but less quartz eyes S ₁ = 65° tca 60.8-61.9 v. broken core, gouge							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
e 43.5 Tr. Gn in Qu		42.3	43.8	1.5	2318				
		43.8	45.3	1.5	2319				
@46.8 Po bleb in Qu		45.3	46.8	1.5	2320				
@47.6 - First signs of "bedded pyrite" total Py <10%		46.8	48.6	1.8	2321				
		48.6	49.4	0.8	2322				
		49.4	49.9	0.5	2323				
48.6-49.6 Sub Vertical hairline fractures containing Po-Sp plus Boulangerite??									
49.6-49.9 Sp 2-3% Py 1-2%, Tr Gn.									
49.9-51.1 Very Low Py No Sp		49.9	51.4	1.5	2324				
51.1-53.1 Coarse Py Blebs 3-5% Py total		51.4	52.9	1.5	2325				
53.1-58.4 <1% Pyrite with local increases at 55.6 2cm band 70-4ca		52.9	54.4	1.5	2326				
54.1 minor sp in Qu		54.4	55.9	1.5	2327				
		55.9	57.4	1.5	2328				
57.75 minor po in Qu									
58.0 4cm wide band of semi-massive pyrite plus boulangerite(?)		57.4	58.4	1.0	2329				
58.7-59.2 40% Pyrite trace to minor po, gn		58.4	59.4	1.0	2330				
		59.4	60.4	1.0	2331				
		60.4	61.4	1.0	2332				
59.2-61.9 3-7% Pyrite laminated to porphyrobls		61.4	61.9	1.0	2333				
59.2-60.4 2-3% ASPY coarsely crystalline									
@61.8 stringers of sphalerite									


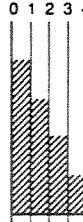

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
61.9-62.4				DISSEMINATED & BANDED SPHALERITE MINERAL ZONE; stringers to 7-10% SPHALERITE, 3% Pb 1-2% GALENA, <1% CPY remobilized medium grain purple grey sphalerite. $S_1 = 73^\circ$ tca fluid deformation broken core.							
62.4-72.3				QUARTZ - SERICITE SCHIST as previous units pyritic broken to badly broken core to end of hole; low recoveries 62.6-62.8 Qv + Pb blebs chlorite fl.							
63.7				$S_1 = 75^\circ$ tca							
63.2-63.6				badly broken core							
66.2				2cm wide pyrite band 72° tca							
64.9-66.2				badly broken core low recovery							
67.5				$S_1 = 72^\circ$ tca							
68.8-69.3				badly broken core							
70.9-72.7				"							
@ 72.4				3 cm wide QvL 70° tca and fracture 20° tca.							
@ 72.9-75.3				badly broken core minor QvL							
72.3-81.4				SERICITE QUARTZ SCHIST FROM 75.3 new fabric developing 55° tca							
@ 77.2				S_1 55° tca							
@ 78.6				S_1 70° tca							
79.5-81.4				Badly broken core							
@ 80.0				S_1 70° tca							
81.4				END OF HOLE							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
61.9-62.4 ZnS zone see geological description		61.9	62.4	0.4	2334				
62.4-63.1 1-2% Aspy 2-3% Po 1-2% Py		62.4	63.4	1.0	2335				
63.1-72.3 1-2% Pyrite down hole. minn po < 1% @ 67.7-69.2 po to 1-2%		63.4	64.9	1.5	2336				
		64.9	66.4	1.5	2337				
		66.4	67.9	1.5	2338				
		67.9	69.4	1.5	2339				
		69.4	70.9	1.5	2340				
@ 72.4 Ga (traces) in Qz		70.9	72.4	1.5	2341				
		72.4	73.9	1.5	2342				
72.3-81.4 Py < 1% Po < 1%		73.9	75.4	1.5	2343				
		75.4	76.9	1.5	2344				
		76.9	78.4	1.5	2345				
		78.4	79.9	1.5	2346				
		79.9	80.4	1.5	2347				
81.4 END OF HOLE									

PAMICON DEVELOPMENTS LIMITED

092966

DRILL LOG

PROJECT BARB	GROUND ELEV. 941m
HOLE NO. DDH PUL 91-2	BEARING 240°
LOCATION MONEY ZONE L8650N, 10150E BETH 5 CLAIM	DIP -72.5°
	TOTAL LENGTH 55.47m
LOGGED BY MIKE STAMMERS	HORIZONTAL PROJECT
DATE JULY 8-9, 1991	VERTICAL PROJECT
CONTRACTOR FALCON DRILLING	ALTERATION SCALE  <ul style="list-style-type: none"> 0 absent 1 slight 2 moderate 3 intense
CORE SIZE BQ RECOVERY 65%	
DATE STARTED JULY 6N, 1991	TOTAL SULPHIDE SCALE  <ul style="list-style-type: none"> 0 traces only 1 < 1% 2 1% - 3% 3 3% - 10% 4 > 10%
DATE COMPLETED JULY 7N, 1991	
DIP TESTS	
COMMENTS HOLE DRILLED TO TEST LOWER CONTACT WITH QUARTZ- SERICITE SCHIST AND CARBONACEOUS PYLULITE CORE STORED AT CAMP LOCATED AT THE MOUTH OF THOMPSON CREEK ON THE EAST ARM OF FRANCIS LAKE.	LEGEND 

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
0-17.2				OVERBURDEN (CASED) includes 6.1-8.2 granite boulder 8.2-11.3 ferrocrete 13.7-17.2 mixed till and Quartz Sericite schist							
17.2-20.42				FAULT GOUGE, very low recovery - originally carbonaceous to graphitic phyllite, some bixia, no contacts or preferred structure.							
20.42-20.6				GREY CARBONACEOUS PHYLLITE - finely laminated - dark grey with some fine green grey laminations - ubiquitously crosscut by quartz veinlets/stringers with \pm pyrite							
20.6-21.6				FAULT GOUGE; as 17.2-20.42							
21.6-				GREY CARBONACEOUS PHYLLITE - as 20.42-20.6 - all core is broken, blocky to badly broken, poor core recoveries - fine quartz veinlets, fracture fillings - S_1 variable, strongly crumpled with lineations on partings @ 21.9 $S_1 = 63^\circ \text{tea}$ @ 23.4 $S_1 = 60^\circ \text{tea}$, fractures 30°tea @ 24.1 minor gouge with a little py @ 26.0 $S_1 = 35^\circ \text{tea}$ @ 24.9 $S_1 = 60^\circ \text{tea}$, $Q_{v1} = 70^\circ \text{tea}$ and minor gouge/slip 25°tea @ 27.0 $S_1 = 45^\circ \text{tea}$							
27.1-28.2				Fault Zone, very low recovery Quartz Veining $\approx 1\%$ Py @ 29.7 $S_1 = 35^\circ \text{TCA}$ @ 30.6 10cm wide $Q_{v1} = 60-65^\circ \text{TCA}$ @ 30.0-30.1, 30.4-30.8, 31.2-31.5 $Q_{v1} \approx$ TRACE TO MINOR SULFIDES. @ 31.6 $S_1 = 55^\circ \text{TCA}$ @ 32.4 5cm wide $Q_{v1} = 50^\circ \text{TCA} \parallel S_1$ @ 33.9 $S_1 = 40^\circ \text{TCA}$							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
No significant accessory sulphides in unit.									
Mineralization is generally associated with quartz veins									
@ 17.5 minor pyrite fragments in gouge.		17.5							
@ 24.1 minor gouge & pyrite									
@ 26.0 minor po in QvL									
27.1-28.2 QvL & 1% Py									
@ 29.4 TRACE Po in 5cm WIDE QvL		29.4	30.9	1.5	2348				
		30.9	32.4	1.5	2349				
A 30.6 COARSE BLEBS OF Po IN QvL									
ALSO QvL & TRACE TO MINOR Po, Py, Gn @									
30.0-30.1, 30.4-30.8, 31.2-31.5									
@ 32.4 5cm QvL & Po, Py = 2-3%									

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					A	B	C	D	E			
				@ 34.6 Minn Gouge, low recovery broken core, a few Q stringers & pyrite.								
				@ 35.2 S ₁ = 35° TCA								
				@ 35.5 Minn Gouge zone								
				@ 36.1 "								
				36.6 S ₁ = 50° TCA, SLIP 38° TCA								
				@ 37.5 S ₁ = 55° TCA, SMALL ISOC'S FOLD								
				@ 38.1m 4cm WIDE QU								
				<u>38.4-41.76</u> GREY CARB. PHYLITE CUT BY 25% QU - QUARTZ VEINS 1-30cm WIDE - TRACE TO MINOR PY, PO; ± chlorite - IRREGULAR CONTACTS @ 41.6 S ₁ = 55° TCA								
				<u>41.76-48.7</u> FAULT ZONE; gouge, badly broken core, highly graphitic, irregular core angles. S ₁ @ 46.9 = sub II tca Fracture 30° TCA @ 48.2								
				<u>48.7-55.47</u> GREY CARBONACEOUS PHYLITE @ 50.2 S ₁ = 15° TCA @ 50.9 S ₁ = 30° TCA LOCAL INCR IN LAMINATIONS 48.7-54.0 @ 52.6 S ₁ = 30° TCA 53.5-53.95 FAULT Gouge @ 55.3 S ₁ = 55° TCA								
				55.47 END OF HOLE								

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
38.1 Qm ± Minor P _o , AsP ₄									
38.4 - 41.8 Qv ± <1-3% P _o > P _g		38.4	39.9	1.5	2350				
		39.9	41.4	1.5	2351				
		41.4	42.9	1.5	2352				
55.47 END OF HOLE									

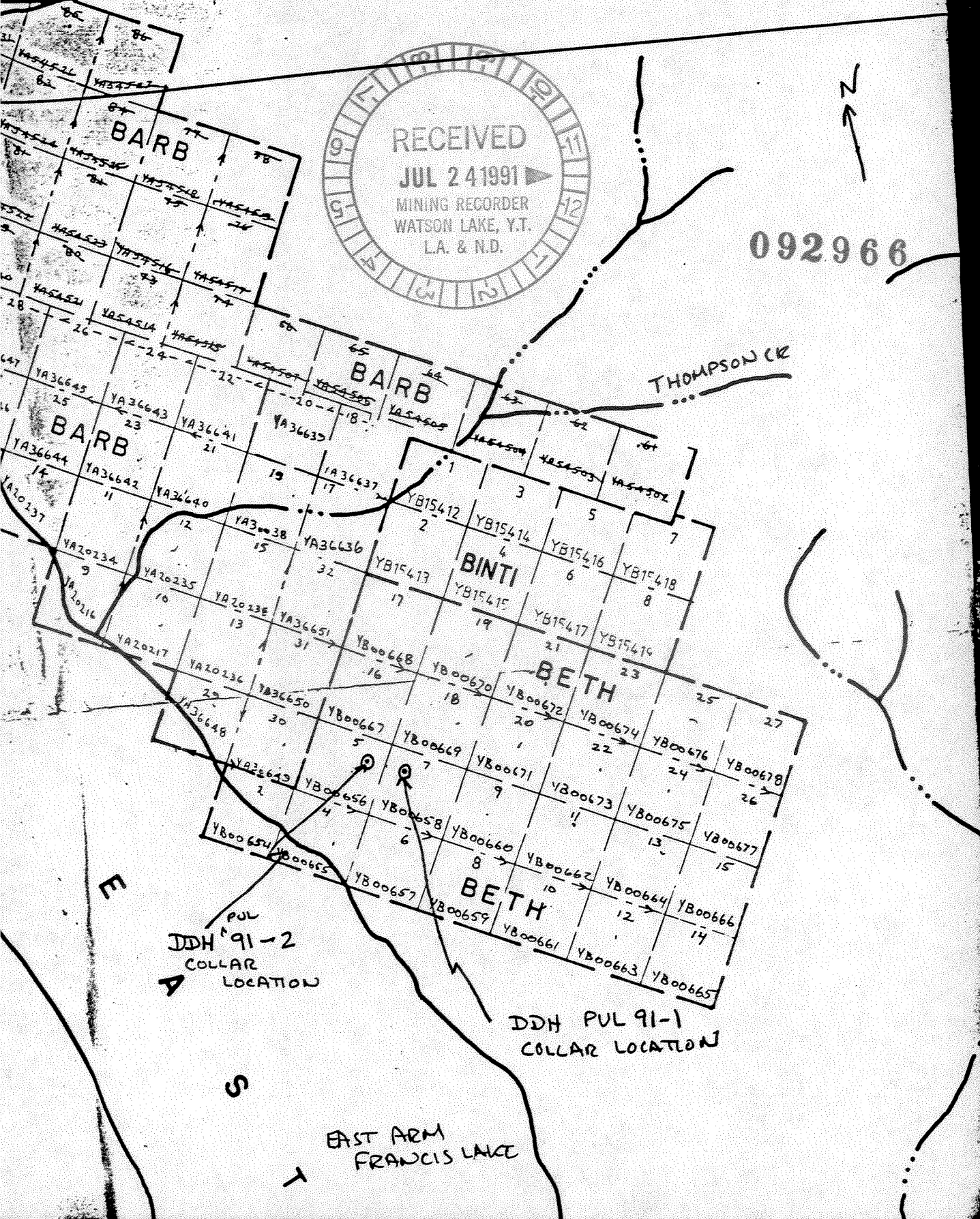
DRILL HOLE

PLAN MAP TO ACCOMPANY APPLICATION FOR WORK

NTS 105 H 6



092966



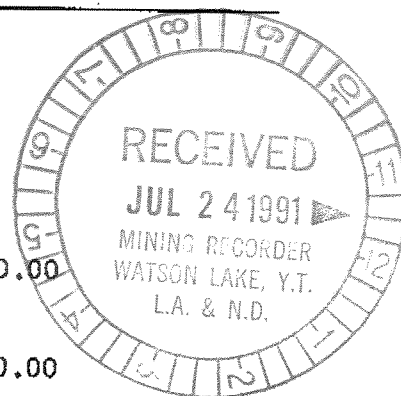
PAMICON DEVELOPMENTS LIMITED
#711-675 WEST HASTINGS ST., VANCOUVER, B.C.
CANADA V6B 1N4
TELEPHONE: (604) 684-3901
FAX: (604) 684-0279

INVOICE

To: Pulse Resources Ltd.
Box 10
11th Floor, 808 West Hastings Street
Vancouver, B.C. V6C 2X6

Date: July 15, 1991
Amount: \$81,484.49
Invoice No.: 1884

Re: Barb Project
July 1-15, 1991 (Interim Billing)



WAGES

Pre-field

M. Stammers - 8 days @ \$375.00

\$ 3,000.00

Drilling Project

M. Stammers (Project Geologist)

July 1 - 12, 1991 - 12 days @ \$375.00

4,500.00

A. Montgomery (Senior Prospector)

July 3 - 12, 1991 - 11 days @ \$300.00

3,300.00

J. Anderson (Sampler/Prospector)

July 2 - 11, 1991 - 10 days @ \$225.00

2,250.00

C. O'Brien (Cook)

July 1 - 11, 1991 - 11 days @ \$225.00

2,475.00

\$15,525.00

Project Supervision

3,993.34

GENERAL EXPENSES

Truck Rental - 4 days @ \$75.00

\$ 300.00

Travel, Accommodation and Airfare

1,672.50

Expendible Field Supplies

1,120.89

Northwest Tel Communications

300.00

Radio Rental (2 ICOMS)

150.00

Helicopter - 17.2 hours @ \$700.00

12,040.00

Drilling - 303 metres @ \$100.00

30,300.00

Fixed Wing - 4 Otter/1 Beaver Flights

4,224.00

Groceries

2,528.00

56,635.39

GST

76,153.73

5,330.76

TOTAL THIS INVOICE

\$81,484.49

GST Registration Number: R104056957

Balances outstanding over 30 days subject to
interest charges calculated at 1.5% per month (18% per annum)



CONFIDENTIAL

25 July, 1991

340-13-3

DIRECTOR GENERAL, YUKON REGION

ATTENTION: REGIONAL MANAGER MINERAL RIGHTS

RESTRICTED

Enclosed are Diamond Drill Logs etc. submitted by Mike Stammers for Pamicon Developments Limited for assessment on the BARB, BETH and BINTI mineral claims located on 105-H-06.

Diamond Drilling was as follows:

Drill Hole #PUL 91-1	BETH 7	81.4 metres
Drill Hole #PUL 91-2	BETH 5	55.47 metres
TOTAL		136.87 metres

Assessment Credit requested is \$5,600.00. The drill core is stored on the property.

Yours truly,

Patti L. McLeod
Mining Recorder
Watson Lake Mining District
Box 269
Watson Lake, Yukon
YOA 1C0

092966

encls.

cc: Regional Manager, Geological Services

NJM