

Diamond Drilling

105-F-10

GULL, MAT & M claims

1977



DU PONT OF CANADA EXPLORATION LIMITED
SUITE 102, 1550 ALBERNI STREET,
VANCOUVER, B.C. V6G 1A5
TELEPHONE: (604) 684-9264

November 16, 1977

Mr. V.W. Johanson
Mining Recorder
Watson Lake Mining District
P.O. Box 269
Watson Lake, YT
Y0A 1C0

Dear Mr. Johanson:

Further to your letter of November 4, 1977, the drill core for the diamond drilling completed on the MAT and M claims is located at the core library of D.I.N.A. in Whitehorse.

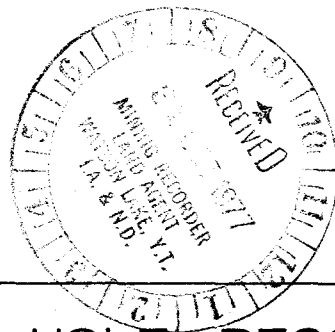
No diamond drilling was completed on the GULL claims.

Yours truly,

D. A. Barr
Vice President

DAB/ap

091145



DIAMOND DRILL HOLE RECORD

DRILLED BY: Arctic Diamond Drilling
 HOLE NUMBER: M-77-1 LENGTH: 155.8 m
 LOCATION: Mat Creek DIP: -45°
 LATITUDE: 2810S DEPARTURE: 850E
 ELEVATION: AZIMUTH: 90°
 HOLE STARTED: Sept. 2/77 HOLE COMPLETED: Sept. 7/77

ACID &/OR TRO-PARI TESTS					
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

SHEET No. 1 OF: 3
 HOLE NUMBER: M-77-1
 PROPERTY: Seagull, Mat Creek
 ACCOUNT No.: 328-03-16
 CORE SIZE: BQ Wireline
 % CORE RECOVERY: 90
 LOGGED BY: F.M. Smith

INTERVALS METRES				UNIT	DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO	WIDTH	RCVRY			NUMBER	% SULFIDES	FROM	TO	WIDTH	RCVRY				
0	9.8	9.8	0		Overburden										
9.8	11.3	1.5	100%	5b4	Talcose green brecciated pyritic rhyolite? minor quartz veining calcite veins.		5								
11.3	12.5	1.2	10%	5b4Z	Muddy, quartz lean graphite zone. 43° angle to core at top 1.2 m in part as above.										
12.5	16.0	3.5	20%	5b4Z	Rubble of siliceous graphitic unit as above and below. Minor green talcose rhyolitic unit.										
16.0	94.2				Major graphite/quartz unit ^{with} minor lentils as below unit +10 graphite throughout becoming predominantly graphite with calcite lentils plus minor talcose rhyolite shards, lentils and blebs. Foliation parallel to 45° to diamond drill hole but predominantly 48° , pyrite nil to 1%.										
27.1	27.2				Grey green lapilli rhyolite.										
31.3	31.5				Quartz vein										
33.5	34.5		80%		Siliceous talcose rhyolite.										
34.8	36.0		90%		Siliceous talcose pyritic rhyolites.		10								
49.1	49.7				Siliceous talcose pyritic rhyolites.		5								

DIAMOND DRILL HOLE RECORD

DRILLED BY: Arctic Diamond Drilling Ltd.
 HOLE NUMBER: M-77-3 LENGTH: 118.9 m
 LOCATION: Mat Creek - MAT 4 DIP: - 60°E
 LATITUDE: 2800S DEPARTURE: 700E
 ELEVATION: AZIMUTH: Grid 270°
 HOLE STARTED: Sept. 11/77 HOLE COMPLETED: Sept. 12/77

ACID &/OR TRO-PARI TESTS					
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

SHEET No. 1 OF: 2
 HOLE NUMBER: M-77-3
 PROPERTY: MAT
 ACCOUNT No.: 328-03-16
 CORE SIZE: BQ Wireline
 % CORE RECOVERY: 90
 LOGGED BY: F.M. Smith

INTERVALS (METRES)				DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FOOTAGE				Pb	Zn	Ag		
							FROM	TO	WIDTH	RCVRY					
0.0	1.9	1.9	0	OVERBURDEN											
1.9	8.5	6.6		5c Graphitic argillaceous phyllite, iron stain, banding normal to 60° to diamond drill hole, pyrite chert blebs ubiquitous		2-5									
								10.1				29	182	1.8	
6.6	73.8	67.2	95%	5b4 Talc, grey white siliceous rhyolite (tuff?) with thin lamellae of green (andesitic) tuff intercalated. Banding parallel to normal to diamond drill hole, much folding of beds. Graded and truncated bedding at 10.2 m becoming graphitic 23.4-33.7								73	96	1.6	
								41.4				184	1050	3.7	
33.7	42.5			Graphitic rich unit of above with 5-10% pyrite angle 80°.	3956		39.4	40.4	1.0	95%	0.01%	0.22%	0.62	ppm	
												0.01%	0.08%	0.31	ppm
73.8	84.8	11.0		5b4Z Graphitic rich rhyolitic, cherty, pyrite broken ground often-muddy seams occasionally garnet zones 76.3-76.4, 83.6-84.1 angle 65-90°			50.7					220	940	1.4	
												0.01%	0.02%	2.2	ppm
							73.8	75.3				66	1160	1.4	
							73.9					90	192	1.3	
84.8	103.1			5b4 Talcose rhyolitic zone with variable 5b4Z zones heavily folded 11 - 90° predominantly 60° 5b4V	3958		83.6					90	192	1.3	
							94.7					163	330	1.4	

DIAMOND DRILL HOLE RECORD

DRILLED BY: Arctic Diamond Drilling
 HOLE NUMBER: M-77-4 LENGTH: 62.5 m
 LOCATION: MAT #62 DIP: -90°
 LATITUDE: 18+00N DEPARTURE: 12+50E
 ELEVATION: AZIMUTH:
 HOLE STARTED: Sept. 15/77 HOLE COMPLETED: Sept. 16/77

ACID &/OR TRO - PARI TESTS

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

SHEET No. 1 OF: 3
 HOLE NUMBER: M-77-4
 PROPERTY: MAT
 ACCOUNT No.: 328-02
 CORE SIZE: BQ Wireline
 % CORE RECOVERY: 100%
 LOGGED BY: L.K. Eccles

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS						
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FOOTAGE				Pb Ppm	Zn Ppm	Ag Ppm		
							FROM	TO	WIDTH	RCVRY					
0	1.8	1.8	0	Overburden											
1.8	8.5	6.7	99%	2A Dark-medium grey dolostone showing faint laminations at at times. In areas rock is fragmental with frags as large as 2 cm across. In fragmental portions the fragments often have fuzzy boundaries probably indicating later alteration and/or solution. Thin stringers of calcite up to 2 mm across and quartz veins, often with pink k spar envelopes up to 3 cm wide cross cut the rock at many different angles. Less than 0.5% py occurring in veinlets and as disseminated.	M19	0.5	5.2	5.3			44	17	1.8		
8.5	22.4		100%	2A Dark-medium grey fine grained dolostone with lighter coloured, green-grey, talcose, mud clasts and layers widely dispersed throughout. About 2% py occurring in disseminated blebs and veinlets and fine grained disseminations 22.25 - calcite vein 5 cm wide.	M20	0.5	19	19.1			41	16	1.7		

DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: M-77-4

 SHEET NUMBER 2 OF 3

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO	WIDTH	RCVRY		NUMBER	% SU/ FIDES	FOOTAGE				Pb ppm	Zn ppm	Ag ppm	
							FROM	TO	WIDTH	RCVRY				
22.4	36.0		100	2A	M13	24	24.1			7	12	0.4		
				Dark-medium grey dolostone with green-grey talcose mud layers and clasts. Much more "mud" in this section than above - platform high energy environment 23.6 - 25.2 = altering layers of mud and dolostone - layers are 1 cm - 5 cm wide at 45°.										
				2A	M15	29.3	29.35			6	18	0.5		
				25.2-31.7 = many grey green, talcy mudclasts set in the darker grey, fine grained dolostone - mottled appearance. Clasts look as though they have been squeezed and often their edges are ill-defined.										
				- rock is quite vuggy in places										
				- pyrite occurs in small blebs										
					M14	32.9	33.0			13	12	0.5		
				31.7-36.0 - amount of mud clast material decreases rapidly so that rock has a dark to medium-grey overall appearance with quite widely separated lighter grey frags long rectangular mud clasts are oriented in many directions.										
36.0	39.3			2A	M16	36.6	36.7			41	17	1.8		
				Dark grey, massive, fine grained dolostone. Some narrow carbonate (and/or dolostone) stringers from 1 mm to 1 cm wide cut the rock at widely spaced intervals. Some of the wider veins are vuggy.										
				Py (0.5-1%) occurs in coloform patches. Rock seems quite rich in carbon.										

DIAMOND DRILL HOLE RECORD

DRILLED BY: Arctic Diamond Drilling
 HOLE NUMBER: S 77-1 LENGTH: 61.0 m
 LOCATION: DM #4 DIP: -90°
 LATITUDE: 4810N DEPARTURE: 785E
 ELEVATION: AZIMUTH:
 HOLE STARTED: Sept. 19/77 HOLE COMPLETED: Sept. 21/77

ACID &/OR TRO - PARI TESTS					
FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH

SHEET No. 1 OF: 2
 HOLE NUMBER: S-77-1
 PROPERTY: SUN/DM
 ACCOUNT No.: 328-03
 CORE SIZE: BQ-wire line
 % CORE RECOVERY: 95
 LOGGED BY: F.M. Smith

INTERVAL (METRES)				DESCRIPTION	SAMPLE				ASSAYS					
FROM	TO	WIDTH	RCVRY		NUMBER	% SULFIDES	FOOTAGE		RCVRY	Pb	Zn	Ag		
							FROM	TO	WIDTH	RCVRY	ppm	ppm	ppm	
0	1.83	1.83	∅	Overburden										
1.83	61.0			4cb Black graphitic argillite with lentils of quartz (1 mm - 2 cm). There are 3° of folding visible in core but overall angle of beds/lentils is 90° to diamond drill hole. Dark colour varies to grey zones where pyrite and quartz increase. Pyrite (visible to eye) only as accumulations on bedding planes. There are three phases of quartz veining (a) bull quartz (white to grey) parallel to bedding but pinched and swelled but no visible folding at the same site as variable thickness. (b) transective veins of bull quartz that are flexed by folding. (c) bull quartz veins at 60° to diamond drill hole with no pyrite on kinks.										
1.83	5.2			Quartz content + 20%										
5.2	9.5			Quartz content to 5%										
9.5	10.4			Fault with quartz vein at base (unknown width)										
10.4	11.5			Pyrite 2-5%	M24		10.5				44	43	2.3	
11.5	12.2			Pyrite 1-2%										



LEGEND

- CLAIM POST
- PROVISIONAL LOCATION
- DIRECTION OF STAKING
- ⊙ DIAMOND DRILL HOLE
- ==== CAT ROAD



DUPONT EXPLORATION
CANADA

D.D.H. LOCATION MAP
GULL, MAT, SUN, DM, D & M CLAIMS
S, D & M FRACTIONS
WATSON LAKE MINING DISTRICT
SEAGULL CREEK AREA, YUKON TERRITORY

1" = 10,000'
SCALE

DATA BY	F.M.S.	REVISED	N.T.S. No. 105 F 10
DATE	OCT. 1977		ACCT No. 328-00
DRAWN BY	K.L.J.		DRWG. No. SE. 77-24
DATE	OCT. 1977		

ONT EXPLORATION
CANADA

DuPont of Canada Exploration Limited
La Société Exploration DuPont du Canada)mitée
MONTREAL, QUEBEC, CANADA

02637

THE ROYAL BANK OF CANADA
LA BANQUE ROYALE DU CANADA
MONTREAL, QUEBEC

PAY
PAYEZ

DATE	MONTANT	AMOUNT
Oct 17/77	\$12,276.33	\$12,276.33

TO
THE
ORDER
OF

Arctic Diamond Drilling Ltd
184 Industrial Road
Whitehorse, YT
Y1A 2V1

A
L'ORDRE
DE



DuPont of Canada Exploration Limited

[Handwritten Signature]

NOT NEGOTIABLE

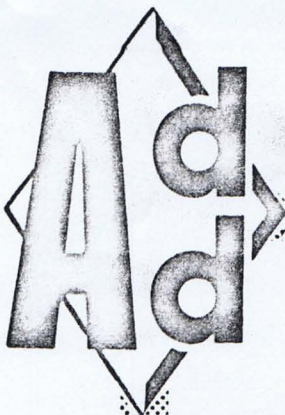
DuPont of Canada Exploration Limited
La Société d'Exploration DuPont du Canada Limitée

DETACH STATEMENT BEFORE DEPOSITING VEUILLEZ DÉTACHER AVANT DE DÉPOSER

DATE	YOUR REFERENCE VOTRE RÉFÉRENCE	DETAILS	GROSS AMOUNT MONTANT BRUT	DISCOUNT ESCOMPTE	NET AMOUNT MONTANT NET
Oct 17/77	1962	Per your invoice	32,357.33		
		<u>LESS</u> Payment made on Oct.6/77			
		Our cheque #2613	(20,025.00)		
		<u>LESS</u> Ross River Service Centre			
		Inv. 1781 (copy attached)	(56.00)		\$12,276.33

02637

091145



ARCTIC DIAMOND DRILLING LTD.

184 Industrial Road, Whitehorse, Yukon Y1A 2V1 (403) 667-6434

INVOICE #1962

September 30, 1977

IN ACCOUNT WITH:

DuPont of Canada Exploration Ltd.,
102 - 1550 Albernie Street,
Vancouver, B.C.
V6G 1A5

Drilling charges re: Seagull Creek for the period September 1 - 25, 1977

Hole: #M-77-1 x 45° x BQ

Overburden

0 - 30 = 30 feet @ \$13.35 per foot = \$ 400.50 ✓

Reaming Casing

30 - 42 = 12 feet @ \$9.00 per foot = \$ 108.00 ✓

Core Drilling

30 - 500 = 470 feet @ \$13.35 per foot = \$6,274.50 ✓

500 - 512 = 12 feet @ \$14.35 per foot = 172.20 ✓ 6,446.70

Reaming Through Cave

18 man hours @ \$15.85 per hour = \$ 285.30 ✓

9 machine hours @ \$6.00 per hour = 54.00 ✓ 339.30

Travelling Time

14 man hours less 7 =

7 man hours @ \$15.85 per hour = 110.95 ✓ \$7,405.45 ✓ 328-02
16

Hole: #M-77-2 - 60° x BQ

Moving

51 man hours @ \$15.85 per hour = \$808.35 ✓

14 machine hours @ \$6.00 per hour = 84.00 ✓ \$ 892.35

Overburden

0 - 20 = 20 feet @ \$13.35 per foot = 267.00 ✓

Core Drilling

20 - 150 = 130 feet @ \$13.35 per foot = 1,735.50 ✓

Travelling Time

2 man hours less 1 man hour =

1 man hour @ \$15.85 per hour = 15.85 ✓

Standby - waiting to move

16 man hours @ \$15.85 per hour = 253.60 ✓ \$3,164.30 328-0-
16

PAID
D.O.X.
DISBURSEMENT
ACCOUNT
CK. No. 02637

OCT 17 1977

...../2

Invoice #1962 - DuPont of Canada Exploration Ltd. - Cont'd

Hole: #M-77-3 - 60° x BQ

Moving

50 man hours @ \$15.85 per hour = \$ 792.50 ✓
 13 machine hours @ \$6.00 per hour = 78.00 ✓ \$ 870.50

Overburden

0 - 6 = 6 feet @ \$13.35 per foot = 80.10 ✓

Reaming Casing

6 - 24 = 18 feet @ \$9.00 per foot = 162.00 ✓

Core Drilling

6 - 390 = 384 feet @ \$13.35 per foot = 5,126.40 ✓

Travelling Time

12 man hours less 3 man hours =
 9 man hours @ \$15.85 per hour = 142.65 ✓ \$6,381.65 328-0
 -16

Hole: #M-77-4 x 90° x BQ

Moving

126 man hours @ \$15.85 per hour = \$1,997.10 ✓
 39 machine hours @ \$6.00 per hour = 234.00 ✓ 2,231.10

Overburden

0 - 6 = 6 feet @ \$13.35 per foot = 80.10 ✓

Reaming Casing

6 - 12 = 6 feet @ \$9.00 per foot = 54.00 ✓

Core Drilling

6 - 205 = 199 feet @ \$13.35 per foot = 2,656.65 ✓

Travelling Time

4 man hours less 1 man hour =
 3 man hours @ \$15.85 per hour = 47.55 ✓ \$5,069.40 02

Hole: #M-77-5 x 90° x BQ

Moving

128 man hours @ \$15.85 per hour = \$2,028.80 ✓
 35 machine hours @ \$6.00 per hour = 210.00 ✓ 2,238.80

Overburden

0 - 6 = 6 feet @ \$13.35 per foot = 80.10 ✓

Reaming Casing

6 - 22 = 16 feet @ \$9.00 per foot = 144.00 ✓

Core Drilling

6 - 200 = 194 feet @ \$13.35 per foot = 2,589.90 ✓

Repairing and re-running water line
 run over by Company's cat

38 man hours @ \$15.85 per hour = 602.30 ✓ \$5,655.10 328-0
 -16

Demobilization

186 man hours @ \$15.85 per hour = \$2,948.10 (10.4 + 328
 \$955.00)

Nodwell Rental - as per agreement dated June 27/77

Sept. 1 - 10 and Sept. 21 - 23
 = 13 days = 13/30 x \$4,000.00 = \$1,733.33 ✓ (776 = 328
 \$3706.4)

DATE	OCT - 6 1977
CHARGE	328-02-16 = \$25,147.22
APPROVED	328-03-16 = \$6,610.00
APPROVED	F. M. Smith

TOTAL INVOICE

PAID
 D.O.X.
 DISBURSEMENT
 ACCOUNT
 CK. No. 02637

OCT 17 1977

\$32,357.33

ARCTIC DIAMOND DRILLING LTD.
DAILY REPORT TIME SUMMARY

Whitehorse, Y.T.
184 Industrial Rd.
Ph. 667-6434

JOB Du Pont of Canada LOCATION SEAGULL CREEK RIG 9 DRILL MODEL 38 JOB # 7721

HOLE NO. M77-1 x 45° x BQ

DATE	SHIFT	1		2		3		4		5		6		7		8		9		10		11		12		13		OVER BURDEN FT.	CORING FT.	REAMING CASING	CORE RECOVERED FT.	
		MEN	MACHINE	MEN	MACHINE	MEN	MACHINE	MEN	MACHINE	MEN	MACHINE	MEN	MACHINE	MEN	MACHINE	MEN	MACHINE	MEN	MACHINE	MEN	MACHINE	MEN	MACHINE	MEN	MACHINE	MEN	MACHINE					
Sept 3	D/S																														0-30 NW	
																															0-30 BW	
4	D/S																	2												-147	-42 BW	
	N/S																	2												-237		
5	D/S																	2												-313		
	N/S																	2												-383		
6	D/S							12	6									2												-384		
	N/S							2	1									2												-444		
7	D/S							4	2									2												-512		
								18	7									14												30	30-512	30 NW
																														42	BW	
HOLE: # M77-2 -60° x BQ																																
Sept 7	D/S	6	3																													
	N/S																			16												
8	D/S	33	11																													
9	D/S	12																2												0-20	20-150	0-20 BW
		51	14															2	16											20	20-150	20 BW
HOLE: # M77-3 x 60° x BQ																																
Sept 10	D/S	48	12																													
11	D/S	2	1															4												0-6	6-105	0-6 NW
	N/S																	4												-306		0-24 BW
12	D/S																	4												-390		
		50	13															12												6	6-390	6 NW
																														24	BW	
HOLE: # M77-4 x 90° x BQ																																
Sept 12	D/S	10	5																													
	N/S	16	8																													
13	D/S	48	12																													
14	D/S	48	12																													
15	D/S	4	2																											0-6	6-18	0-12 BW
	N/S																	4												-205		
		126	39															4												6	6-205	12 BW

ARCTIC DIAMOND DRILLING LTD.
DAILY REPORT TIME SUMMARY

Whitehorse, Y.T.
184 Industrial Rd.
Ph. 667-6434

JOB DUBUT OF CANADA LOCATION SEAGULL CREEK RIG 9 DRILL MODEL 38 JOB # 7721

HOLE NO. M-77-5 x 90" x BQ

DATE	SHIFT	1		2		3		4		5		6		7		8		9		10		11		12		13		OVER BURDEN FT.	CORING FT.	REAMING CASING	CORE RECOVERY
		MEN	MACHINE	MEN	MACHINE	MEN	MACHINE	MEN	MACHINE	MEN	MACHINE	MEN	MACHINE	MEN	MACHINE	MEN	MACHINE	MEN	MACHINE	MEN	MACHINE	MEN	MACHINE	MEN	MACHINE	MEN	MACHINE				
Sept 15	N/S	8	4																												
16	D/S	36	10																												
17	D/S	44	11																												
18	D/S	40	10																												
19	D/S												38												0-6	6-22	0-22 BW				
20	D/S																														
21	D/S																														
		128	35										38												6	6-200	22 BW				
Sept 19	D/S	8																													
20	D/S	8																													
21	D/S	48																													
22	D/S	44																													
23	D/S	44																													
24	D/S	18																													
25	D/S	16																													
		186																													