



C.M.R. Y59041 ARROW 3.

OVERLAND

DD-210

see grouping
4530Q - 4536Q

EXPLORATION SERVICES (1969) LTD.

- GRAVITY
- MAGNETICS
- I.P. SURVEYS
- RADIO ACTIVE SURVEYS
- DRILLING
- LINE CLEAN UP
- LINE CUTTING
- GEOLOGY

1347 - 12th AVENUE S.W.
CALGARY 3, ALBERTA, CANADA

TELEPHONE
403 - 244-2191

February 17, 1972

Canadian Reserve Oil & Gas Ltd.
1600, 639 - 5th Ave. S.W.
Calgary, Alberta

W.M.D. 105-L-9

HOLE NO. 5

Location Hole #5 was drilled along the south boundary of Arrow claim #3 (Y59041), 600 feet east of the southwest corner of the claim.

Depth The hole was drilled at BQ core size to a depth of 600 feet.

Dates Drill moved on to hole Nov. 10, 1971
Drill moved out on Nov. 16, 1971

Costs

Arctic Drilling #1016	\$ 6,789.50
Trans North #861-71	<u>18,002.32</u>
Total	\$24,791.82

Comments Hole #5 was drilled with BQ core to a depth of 600 feet. Men moved off hole on Nov. 16 - Helicopter continued move equipment to Nov. 20.

091260

DIAMOND DRILL RECORD

LOCATION Twoopete Cr. Gip DIRECTION _____ DIP 90° HOLE No. 4LOGGED BY J.T. Neelands CASING _____ SHEET No. _____

STARTED _____ CORE SIZE _____ CORRECTED TESTS _____

FINISHED _____

PROPERTY _____

FROM	TO	Summary Log	DESCRIPTION
0	42		Presumed to be overburden. Core is composed of broken and ground pieces of rock of varying composition.
42	86		<u>Hornfels</u> The rock is thin bedded, fine grained, hard and mainly black. Thickness of beds vary from 1 to 3 mms. The original rock is presumed to be a shale. Beds of quartz-feldspar mixture occur throughout and compose < 10% of rock. The rock breaks with a conchoidal fracture.
86	160		Poor recovery of core due to fracturing and possible faulting. Fractures are filled with calcite. Fracture angle is approximately 10°. <u>Hornfels</u>
160	270		<u>Hornfels</u> are more siliceous. A greenish grey quartzite occurs from 269 feet to 268 feet.
270	410		<u>Black Hornfels</u>
410	411		Pyrite and pyrrhotite occur less than 10% in <u>Hornfels</u>
411	420		<u>Hornfels</u>
420	530		<u>Hornfels</u> are more siliceous
530	601		<u>Hornfels</u> .

DIAMOND DRILL RECORD

LOCATION Tay River Group DIRECTION _____ DIP 90° HOLE No. 5
 LOGGED BY J. T. Neelands CASING _____ SHEET No. _____
 STARTED _____ CORE SIZE _____ CORRECTED TESTS _____
 FINISHED _____
 PROPERTY _____

FROM	TO	Summary Log	DESCRIPTION
0	10	Overburden	
10	100	Gneiss. Composed essentially of quartz and biotite. Siliceous layers of quartz are separated by biotite rich layers. Thickness of layers varies from 3mm to 4cm. Chlorite and hornblende occur less than 10% of total mafic layers.	
100	103	Quartz-biotite schist. Almost impossible to distinguish between siliceous and mafic layers. Pyrite and pyrrhotite found < 1% throughout mafic layers	
103	223	Gneiss Garnets < 3mm in diameter occur in the following length of core. 116'6" to 117'6" at 152' to 253'. Chlorite layering is more prominent < 10% of mafic. Between 199' and 200' chalcopyrite occurs < 2%.	
223	292	Quartz-biotite schist	
292	292'6"	Massive hornblende contains < 2% chalcopyrite and < 1% pyrite and pyrrhotite combined.	
292'6"	213	Quartz biotite hornblende schist	
213	363	Quartz biotite schist	
363	383	Quartz biotite chlorite schist	
383	408	Quartz biotite chlorite hornblende schist	
408	597	Quartz biotite chlorite schist	
597	598'6"	Sulphides compose approximately 40% of core of which 5% is chalcopyrite, 15% is pyrrhotite and 20% is pyrite.	

ARCTIC DIAMOND DRILLING LTD.

P.O. Box 3204,
Whitehorse, Yukon Territory

Marwell Area - Phone 668-2440

730 - 510 W. Hastings Street,
Vancouver, B.C.

Phone 688-3328

November 20, 1971

INVOICE #1016

Overland Exploration Services (1969) Ltd
1347 - 12th Ave S.W.
Calgary, Alberta

HOLE #4 (cont from Invoice #1006)

REMOVING CASING

2 machine hours @ \$5.00 = \$10.00
4 man hours @ \$6.00 = \$24.00 \$ 34.00

CORING

370 -500 = 130 feet @ \$7.75 = \$1007.50
500 - 601 =101 feet @ \$8.75 = \$ 883.75 \$ 1891.25
\$ 1925.25

HOLE #4 - 90° x BQ

Moving

262 man hours @ \$6.00 \$ 1572.00

REMOVING CASING

8 man hours @ \$6.00 = \$ 48.00
4 machine hours @ \$5.00 = \$ 20.00 68.00

WATER SUPPLY

59 man hours @ \$6.00 354.00

PENETRATING OVERBURDEN

0-4 = 4 feet @ \$7.75 31.00

CORING

4-500 = 496 feet @ \$7.75 = \$3844.00
500-600 = 100 feet @ \$8.75 = 875.00 4719.00

REAMING CASING

4-11 = 7 feet @ \$6.50 45.50

6789.50
\$8714.75

TRANS NORTH TURBO AIR LTD.



BOX 1977 PHONE 668-2177
WHITEHORSE, YUKON

TO:

Overland Exploration Services Ltd.
1347-12th Avenue S.W.
Calgary 3, Alberta

Date: November 22, 1971

Invoice No: 861-71

P.O. No.

TO: Charge you with the charter of Bell 206-A Jetranger
Helicopter CF-MBT
Crew: Armstrong, Dunbar and McKnight

FLYING: November 5, 10-20, 1971
Daily Flight Report No's: 1048-1059
less 3.8 for Nov 5th
72.1 hrs. at \$248.00 per hour \$17,880.80

PLUS: Excess cost of fuel at Faro
Charterer assessed with cost
of fuel over \$.60 per gallon

1364 gallons at \$.78 per gallon 1,063.92

PLUS: Prorated crew expenses at Faro
(Per Faro Hotel Oct. 25, 26 & 27, 1971) 66.95

INVOICE TOTAL \$19,011.67

TERMS: One per cent interest per month will be charged
on all invoices not paid within 30 days of date issued.

less
18,002.32

ANUIC

Total for 126 #5
211.44

CK1480 - 9011.67
CK1481 - 5000.00
CK1482 - 5000.00

Whitehorse, Y. T.
Marwell area
Box 2824-Ph 668-2440

ARCTIC DIAMOND DRILLING LTD.

Vancouver, B. C.
730 510 W. Hastings St.
Ph 688-3328

DAILY REPORT TIME SUMMARY

OVERLAND JOB EXPLORATION LOCATION TRY RIVER RIG # 15 DRILL MODEL PBS1 JOB # 112

HOLE NO. 4-90° x 30 (cont from Inv # 1006)

DATE	SHIFT	MOVING		CORE DRILLING		NON CORE DRILLING		STAND PIPING		REMOVING CASING		MAINTENANCE & REPAIRS		CEMENTING		SAMPLING		TESTING		WATER SUPPLY		TRAVELLING TIME PAID		STAND BY TIME		TIME NOT ACCOUNTED		OVER BURDEN FT.		CORING FT.		CEMENTING FT.		CORE RECOVERED FT.									
		MEN HRS.	MACHINE	MEN HRS.	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	MEN	MACHINE	MEN	MACHINE										
NOV 5 th	D-N																																					370 / 445					
" 6 th	"																																				-503						
" 7 th	"									2.4																										-601							
" 8 th	"									2.4																										370 / 401							
HOLE # 5 - 90° x 30																																											
NOV 7 th	N	4.8																																									
" 8 th	D	36	Tearing down equipment on hole #4																																								
" 9 th	D	40	Waiting on Helicopter																																								
" 10 th	D	60	Moving to hole #5																																								
" 11 th	D	52	"																																								
" 12 th	D	55	Setting up on Hole #5																																								
" 13 th	D	19																																				10' 0-11 4-17 4-8					
" 14 th	N																																					-58 -11					
" 15 th	D-N																																					-243					
" 16 th	D-N																																					-438					
" 17 th	N																																					-600					
" 18 th	N	36.2																																				59 0-11 4-600 4-11					