

5987

DRILL REPORT - KUTCHO DDH # 41

MOE 1, JEFF 63, 64, 101-116,  
135-138 Mineral Claims

Liard Mining Division

104 I - 1W/2E

by

D.A. Bridge

Imperial Oil Limited  
Vancouver, B.C.

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT

NO. 5987 MAP.....

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Location Map -DDH # 52	Scale: 1 in. = 1,000 ft.

DIAMOND DRILL CORE LOG

PROPERTY: Kutcho Creek

DRILL HOLE NO. 41

LOCATION: 52 E - 21 N

CLAIM: Jeff 64 (70359)

AZIMUTH: 180°

CORE SIZE: BQ

CONTRACTOR: Arctic Diamond Drilling  
Whitehorse, Yukon

CORE STORAGE: Imperial Oil Camp,  
Kutcho Creek

INCLINATION: -48°

LENGTH: 352'

ELEVATION: 5,800'

DESCRIPTION

FROM	TO	DESCRIPTION
0	6	Overburden
6	42	Metagabbro, medium-grained, foliated, dark greenish black mafic unit with epidote around chloritized mafics
42	53.5	Rhyolite
53.5	58.0	Porphyritic andesite, carbonate altered feldspar phenocrysts in a chlorite schist matrix
58	245	Rhyolite lapilli tuff breccia, very soft, fissile, foliated sericite-quartz schist with abundant fragments
245	352	Rhyolite lapilli tuff, soft, fissile, foliated sericite-quartz schist with fine quartz eyes

Percent Core Recovery

6	47	84%
47	71	36
71	187	0.03
187	217	87
217	352	98

*Gene A. Bridg*

COST STATEMENT

Dates Drilled: July 26 to 29, 1976

Direct Drilling Costs

352 feet at \$10.75/ft. \$3,784.00

Labour

63 man-hours at \$13.30/hr. 837.90

Core Boxes

14 boxes at \$6.00/ea. 84.00

Fuel

45 gal. at \$1.80/gal.\* 81.00

Helicopter Support

10.6 hrs. at \$300.00/hr. 3,180.00

Helicopter Fuel

10.6 hrs. at 23 gal/hr. at \$1,80/gal.\* 438.84

Drill Supervisor

Dane Bridge, Geologist - 4 days at \$70.00/day 280.00

Camp Costs

20 man-days at \$30.00/day 600.00

Office and Secretarial Costs

1 day at \$60.00/day 60.00

Total Cost: \$9,345.74

Cost per foot: \$26.55

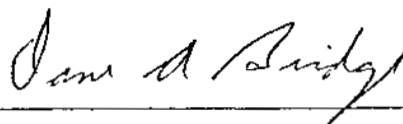
\* Fuel cost delivered to Kutcho Camp

STATEMENT OF QUALIFICATIONS

I, Dane A. Bridge, of West Vancouver, British Columbia, hereby certify the following qualifications:

(a) I obtained a B.Sc. Hons., in 1969, and a M.Sc., in 1972, in geology from the University of Manitoba, Winnipeg, Manitoba

(b) I have been practising my profession as a geologist in Canada for seven years.



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Dane A. Bridge  
Geologist  
Imperial Oil Limited

SCHEDULE A

BID SHEET AND JOB SPECIFICATIONS

1. DESCRIPTION OF WORK:

The work is to consist of a series of drill holes, drilled at locations specified by Imperial. A total minimum footage of 4,000 feet shall be drilled, but total footage may be extended by mutual consent. Maximum depth of any hole shall not exceed 1,000 feet and minimum depth shall be 200 feet. The Contractor will not be called upon to drill any hole at a flatter angle than -50 degrees. Measurement of all holes shall be taken from the top of the casing pipe. If holes of a greater depth than 1,000 feet are desired, such drilling shall be performed only upon such conditions and at such rates as may be agreed upon before commencement of such drilling.

2. SCHEDULE OF RATES:

Imperial agrees to pay the Contractor for footage drilled and other services performed as follows:

(a) Coring at Bedrock

Depth Intervals	BQ	Size	Size
0 - 500 Ft.	\$ 10.75	/Ft.	\$ /Ft.
500 - 1000 Ft.	\$ 11.25	/Ft.	\$ /Ft.
1000 - 1500 Ft.	\$ 11.75	/Ft.	\$ /Ft.
_____ - _____ Ft.	\$ _____	/Ft.	\$ _____/Ft.

(b) Casing of Overburden

Depth Interval	
0 - 50 Ft.	\$ 10.75 /Ft.
50 - 100 Ft.	\$ _____/Ft.
_____ - _____ Ft.	\$ _____/Ft.

(c) The following services will be provided on an operating Field Cost basis:

1. Casing of overburden over 50 ft.
2. Reaming and setting casing for borehole reduction, borehole stabilization, and control of return water.
3. Drilling caved or broken ground.
4. All cementing operations, excluding setting time but including drilling of set cement.
5. Supplying water to the drill when water supply over 2,500 ft. lateral and/or 250 ft. vertical lift

from borehole collar under non-freezing conditions and all costs ~~ft. lateral and/or~~ ~~ft. vertical lift~~ under freezing conditions.

- 6. Recovering pipe and/or casing at Imperial's request.
- 7. Hole orientation tests.
- 8. Setting of wedges, at Imperial's request, for the purpose of directional drilling.

Where operating Field Costs are defined as:

Operating Field Costs

Labour (including Supervision) \$13.30 per man hour.  
 Tractor N/A per hour.  
 Water Truck (excluding driver) N/A per hour.  
 Equipment

Drills	Type	Operating Hourly Rate
<u>1</u>	<u>C/L Model 38</u>	<u>\$8.00</u>
<u>1</u>	<u>B.B. BBS-1 /12 BH</u>	<u>8.00</u>
Pumps	Type	Operating Hourly Rate
<u>          </u>	<u>N/A</u>	<u>          </u>
Other	Type	Operating Hourly Rate
<u>          </u>	<u>N/A</u>	<u>          </u>

While operating on a Field Cost basis, supplies consumed or damaged beyond use, including diamond articles, mud ingredients, cement, rods, core barrels, etc. shall be for Imperial's account at site replacement value plus 10 %. However, if due to Contractor negligence, or through poor drilling practices, equipment is damaged or lost and hole is not completed, then these costs shall be for Contractor's account.

(d) The following services would be provided on a non-operating Field Cost basis:

- 1. Setting time for cement.
- 2. Delays caused by Imperial.

Where non-operating Field Costs are defined as:

Non-Operating Field Costs

Labour (including supervision)	\$13.30	per man hour.
Drill, pumps and service vehicle	-	per drill hour.
Tractor - operating	-	per hour.
Tractor - non-operating	-	per hour.

(e) Travelling Time

Imperial agrees to pay for travelling time from camp site  
\_\_\_\_\_ to drill site and return per shift on the  
following basis:

Labour \$11.50 per ~~day~~ man-hour, after the first ½ hour  
Vehicle \_\_\_\_\_ per day. per man

(f) Mobilization and Between Hole Moves

Labour \$13.30 per man-hour.

(g) Room and board for Contractor's personnel will be provided by  
Company.

Contractor will provide meals and accommodation for up to  
N/A of Imperial's representatives at a price of N/A  
per day.

Room and board will be provided by Imperial to Contractor at  
- per man day.

(h) Core boxes, including lids, will be provided by Company  
\_\_\_\_\_. Contractor's rates for core boxes on site shall  
be \$ -.

(i) Core splitter to be supplied by Company  
Contractor to supply core splitter at - per -.

(j) Standby Rental

It is agreed that, at the completion of the present active  
drilling program, Imperial may retain the Contractor's drilling  
equipment at the drill area for a rental rate of -  
per - per drilling unit. The standby rental charge will  
cease to apply upon commencement of continuous drilling program,  
or on the giving of a written notice to the Contractor by  
Imperial that the drilling equipment is no longer required.

\*\* Should drilling not recommence by June 10, 1977, the  
Company will pay the Contractor \$100.00 per day from  
June 10, 1977 until recommencement of drilling, or  
demobilization of equipment.



(k) Special Agreements

- (1) The Contractor will mobilize and demobilize his drill and supplies to and from Dease Lake and will charge \$1,600.00 for same. This charge will be divided equally between the Company and Sumitomo Metal Mining Ltd.
- (2) The Contractor will mobilize and demobilize his crew to and from Rainbow Lake and will charge \$1,800.00 for same.
- (3) Delays caused by lack of transportation will be charged at Non-operating Field Cost.
- (4) Fuel, gas, oil and propane for drills, pumps, heaters and camp will be supplied by the Company at no cost to the Contractor.



Scale: 1:250,000 P. A. T. S. I. Z. P. h to 4 miles approx.

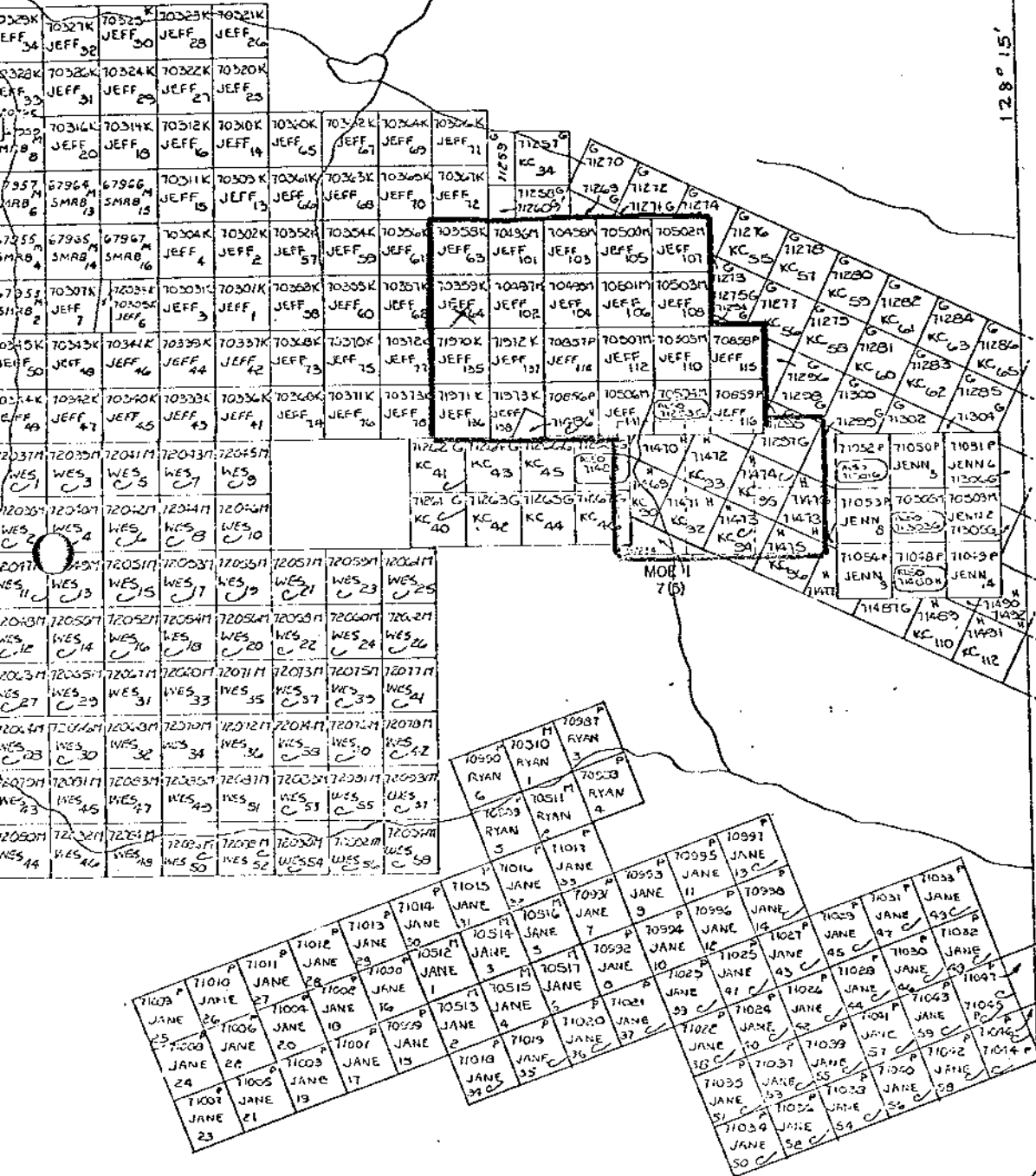
PLAN OF MDE JEFF CLAIMS 128° 15' 1:50,000

ry Lake Sheet 104-I

Contour interval 500 Feet. All Elevations in Feet above Mean Sea Level.

#5987

128°	Lower Part
Jennings	1115



INDEX MAP OF MINERAL CLAIMS

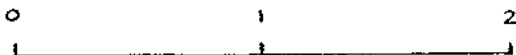
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PLAN OF MOE 1, JEFF 63, 64, 101-116, 135-138 Mineral claims

Land M.D., B.C

1047 I/W

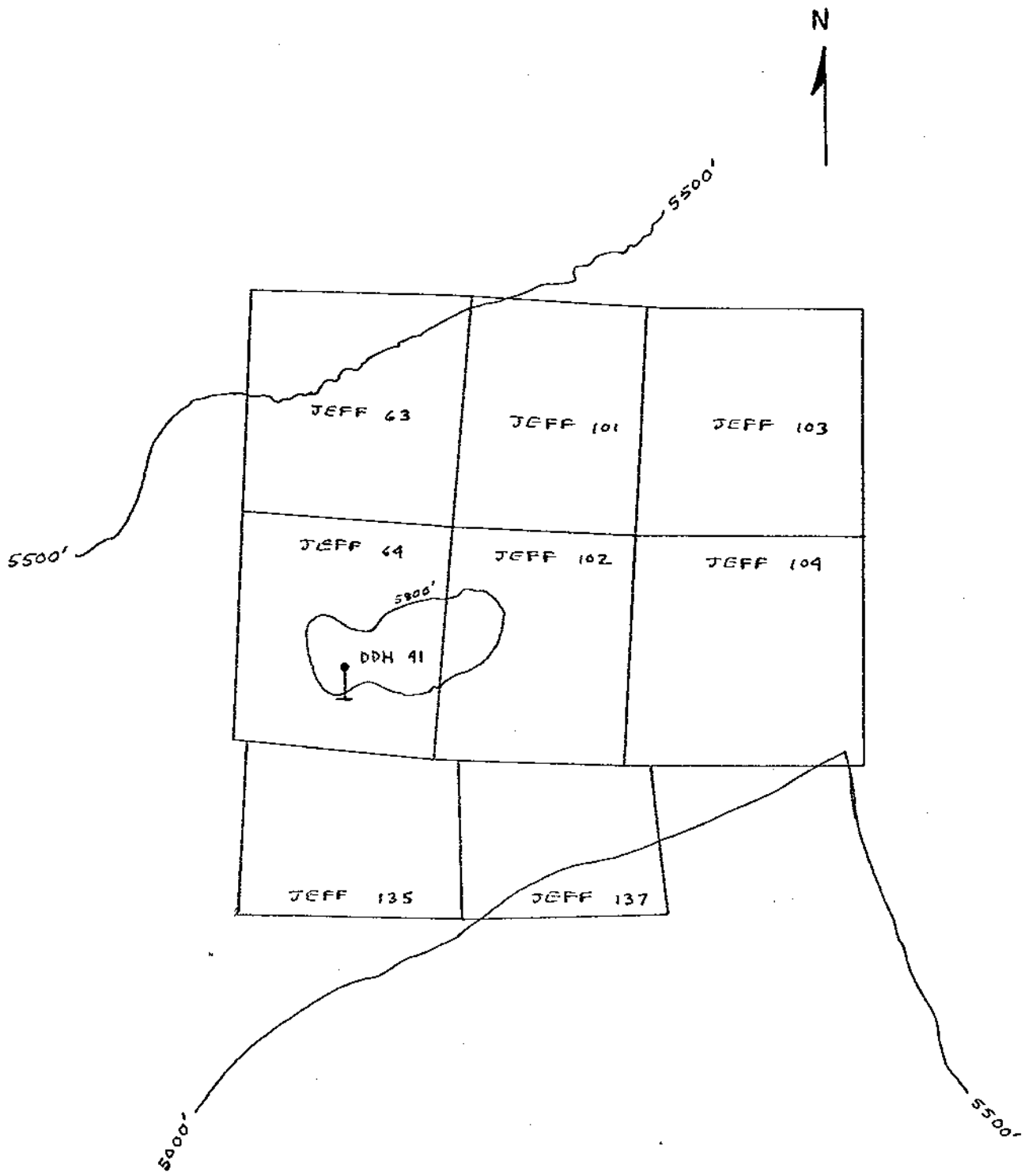
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SCALE IN MILES

ST SEE MAP 1041/1E

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Location Map DDH # 41

1" = 1000'

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