

DRILLING REPORT

on the

EXPO GROUP A

Owned by: UTAH MINES LTD. and HEINZ VEERMAN and WILLIAM G. BOTEL

Located: 7 Kilometers northeast of Holberg, B.C.

NANAIMO MINING DIVISION

50° N 127° W

NTS 92 L/12

FILMED

H.R. Muntanion
Project Geologist
Utah Mines Ltd., Vancouver

February, 1983
Vancouver, B.C.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

11'048
part 1 of 2

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INTRODUCTION

On Expo Group A additional diamond drilling and the construction of a drill access road were carried out from November 16 to December 22, 1982. The work was performed on the Red Dog 5, Red Dog 7 and Red Dog Fraction claims. Drilling totalled 1059m in seven holes. Short sections of existing road were upgraded and the road was extended by 580m of new construction.

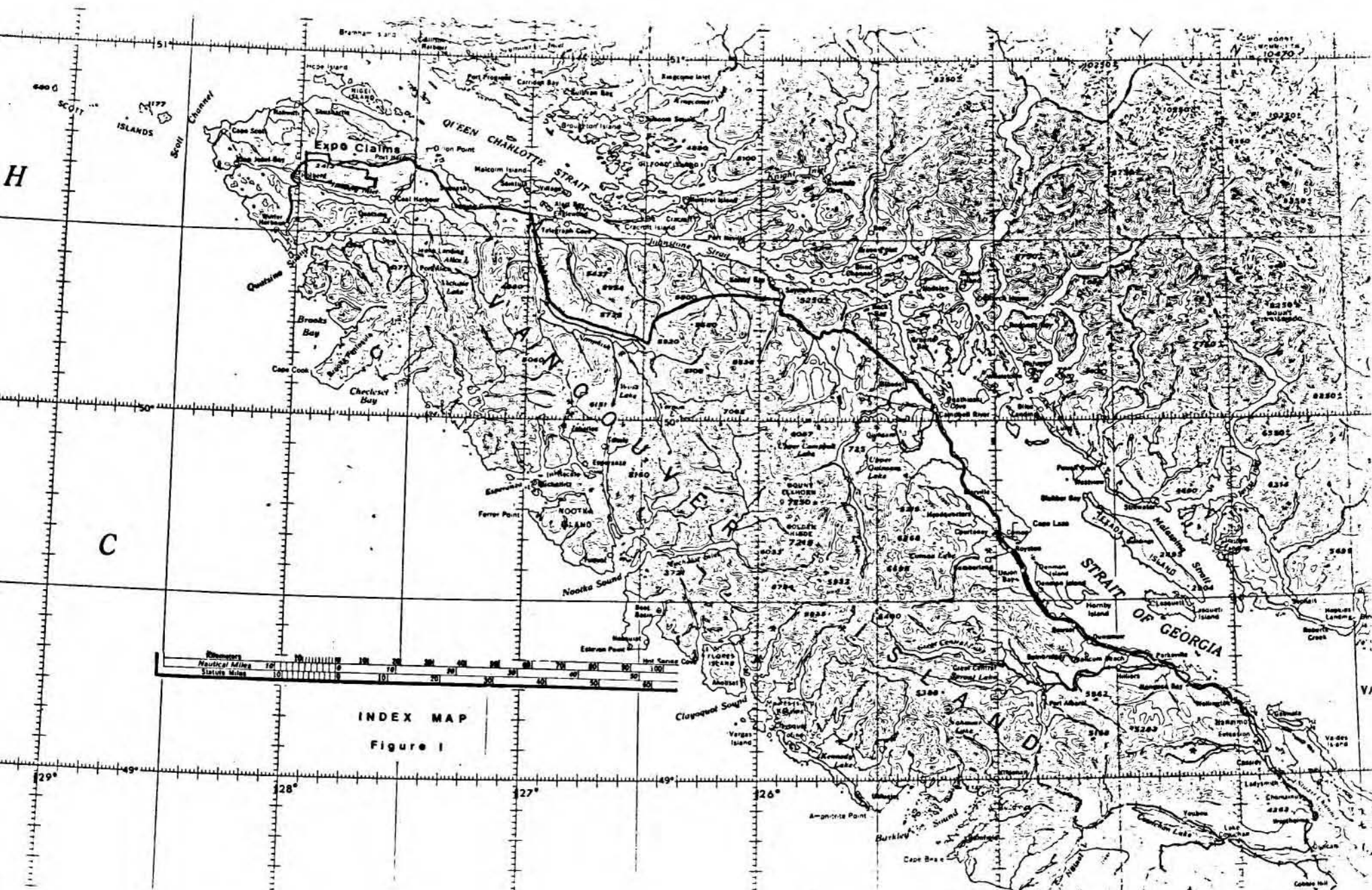
Expo Group A consists of 46 Expo claims owned by Utah Mines Ltd. and 28 Red Dog claims owned by Heinz Veerman and William G. Botel. The group is part of a large west-northwest trending claim block occupying an area of approximately 24 by 11 km.

Field work was performed or caused to be performed by Utah Mines Ltd. under the supervision of geologists H. Muntanion and J.B. Richards. Road building and drilling were contracted to Bruner Bros. and D.W. Coates Enterprises Ltd., respectively. The geological work was carried out by H. Muntanion, assisted by L. Gibbons.

Accommodation for Utah personnel and the drill crew was found at the Trails End Motel in Holberg and meals were provided by Glenora's Kitchen. Statements of qualifications and costs, together with contractors' invoices, are included in this report in Appendices A and B, respectively.

Location and Access

The area of interest is located 34 km west of Port Hardy and 7 km north-northeast of Holberg on Vancouver Island (Fig. 1). It is



INDEX MAP
Figure 1

accessible on Western Forest Products logging road NE 62 and spur roads 62 H and 62 B (Plate 1).

Daily flights originating from Vancouver service Port Hardy. A helicopter charter service is available at the Port Hardy airport.

Physiography

Within Claim Group A elevations range from about 240m to 560m. The topography is generally rugged with steep slopes incised by streams. Maximum relief is about 320m above the Goodspeed River Valley which crosses the claim group. The Red Dog claim is dominated by a northeast trending hill which attains an elevation of about 560m.

North of the logging road NE 62 and west of the south-flowing tributary, which joins the Goodspeed River on the Red Dog 12 claim, the area has been logged off and is littered with slash. Secondary growth is heavy, particularly on the south facing slopes. Gulleys and several landslides have developed on some of the steeper slopes. A few small swamps occur in the river valley. This area lies within the Western Forest Products Tree Farm Licence.

At Holberg the average annual precipitation is about 400 cm. At sea level snow rarely remains for more than a few days at a time but depths increase rapidly with an increase in altitude. At elevations of 600m the cumulative annual snowfall is about 240 cm. The period from mid June to early September is normally relatively dry. Mean daily temperatures range from a few degrees above zero centigrade in January to about 14 degrees centigrade in July.

History

The first report on the geology of Northern Vancouver Island was published by the Geological Survey of Canada in 1887. Since then, both the Geological Survey of Canada and the British Columbia Department of Mines have sponsored field parties in the region at various times. In 1962, the Department of Mines released data from an airborne magnetometer survey of Northern Vancouver Island which generated an interest in a search for iron deposits. During 1963 and 1964 copper exploration programs consisting mainly of stream sediment sampling were conducted by numerous companies. No significant discoveries were made, however, and by 1965 very little interest was being shown in the region.

Following the discovery of the Island Copper deposit the Red Dog claims were staked by Westcoast Mining Co. in 1967. The surrounding Expo claims were staked by Utah Mines Ltd. in the same year with a few additions in 1972 and 1974. During the spring of 1982 Utah staked the Expo 900 claims, consisting of eight units, adjoining the northwestern end of the claim block.

Between 1967 and 1969 the claim block was covered with detailed soil sampling and was geologically mapped on a scale of 1 inch to 1,000 feet. Between 1970 and 1973 areas of primary interest, totalling 70.4 sq.km., were mapped on a scale of 1 inch = 200 feet and covered by magnetometer surveys on lines spaced 400 ft. (120m) to 500 ft. (150m) apart. The bulk of this area was also covered by induced polarization surveys. About 10 holes, mostly XRT, were drilled between 1968 and 1974 to test several of these anomalies.

The Red Dog Cu-Mo claims were geologically mapped on a scale of 1 inch to 400 ft., soil sampled and covered by magnetometer and EM surveys. From 1968 to 1970 24 holes were diamond drilled. From 1972

to 1977 the property was optioned by City Services Ltd., and remapped. An additional six holes were also drilled.

During the summer of 1982 Utah Mines Ltd. conducted 10.2 line kilometres of I.P. survey on these claims. In addition, five holes were diamond drilled. The 1982 activity has been documented in a previous assessment report.

Claim Status

Expo claim expiry dates range from 1983 to 1988. The Red Dog claims are valid until 1989. In May 1982, Utah Mines Ltd. entered into an option agreement with H. Veerman and W.G. Botel for the Red Dog claims.

Geological Setting

The Expo/Red Dog claim block is underlain by volcanic and sedimentary rocks of the Vancouver Group, which consists of Karmutsen basic volcanic rocks of Triassic age overlain successively by Quatsino limestone, of Triassic age, Parson's Bay sediments of Upper Triassic age and Bonanza volcanics of Upper Triassic-Lower Jurassic age. The above rocks are intruded by several isolated stocks which are part of a belt of intrusive stocks extending from Rupert Inlet, northwesterly, to the mouth of the Stranby River. In proximity to the northwesterly trend of acid intrusive stocks are zones of silicified (+ pyrophyllite) breccia bodies, apparently crosscutting Bonanza rocks.

Dominant fault and shear trends in Bonanza rocks are northwest and northeast, with subordinate east-west and north-south trends. Most major faults have a northwest trend.

Pyrite is the most widespread and abundant sulphide mineral. Sulphides, including chalcopyrite, occur as disseminations and in veinlets in the Bonanza volcanics. At Red Dog, two mineralized zones are known. One of these has an indicated surface dimension of 450m east-west and 200 to 300m north-south. It is hosted by very silicified and magnetite-enriched volcanics in contact with the Red Dog Porphyry stock of intermediate to felsic composition. A Cu-Mo zone is centred on the Red Dog 1 claim and has a surface extent of about 350 by 300m. The mineralization is somewhat erratic and appears to be controlled by steeply dipping, narrow leucocratic dikes and fracture zones.

DIAMOND DRILLING

Drilling was restricted to Red Dog Hill to test Cu-Mo porphyry mineralization hosted in a quartz-magnetite breccia unit. This is a follow-up on a drilling program conducted earlier in 1982.

Drilling was performed by D.W. Coates Enterprises Ltd. using a skid-mounted Super "38" drill unit equipped to drill BQ, NQ and HQ core sizes. The drill was operated by two 2-man crews each working ten to twelve hour shifts seven days per week.

All drill sites are accessible by road. Minor repair work was required on logging roads NE 62H and NE 62B. The latter road was extended by 580m and a 50m spur was constructed to provide access to DDH-140 (Plate 2). An excess of 5000 yards of surfacing rock was used. This work was contracted to Bruner Bros. Contracting Ltd.

Below is a summary of the holes drilled. Locations are plotted on Plate 2.

<u>Hole Number</u>	<u>Located on Claim</u>	<u>Elev.</u>	<u>Angle</u>	<u>Azimuth</u>	<u>Total Depth</u>
EC-133	Red Dog 5	357.4m	-45°	180°	203m (666')*
EC-139	Red Dog Fraction	393.8m	-90°		183m (600')
EC-140	Red Dog Fraction	374.5m	-62°	000°	178.5m (586')
EC-141	Red Dog 7	373.9m	-45°	000°	117.5m (386')
EC-142	Red Dog 7	376.5m	-90°		163.5m (536.5m)
EC-143	Red Dog 7	390.4m	-90°		166.7m (547')
EC-144	Red Dog 7	389.5m	-57°	000°	199m (653')

* drill hole deepened from 152m to 203m

Drill holes EC-133 and EC-139 generally encountered moderate to good ground conditions, with average core recovery in the 90 to 95% range. The volcanics in the steeper parts of the south-facing slope of the hill are generally badly broken, particularly near the surface. Average core recoveries in drill holes EC-140 to EC-144 are fairly poor ranging from 51 to 79%. To improve recovery, EC-143 and EC-144 were drilled with HQ equipment from surface to depths of 66.9 and 61.0m, respectively. In EC-141, at a depth of 93m, it was necessary to reduce to BQ equipment which succeeded in extending the hole for only an additional 24.5m.

Core was logged by a Utah geologist, then split in half. Half the core was sent for analyses to Chemex Labs Ltd. in North Vancouver via Pacific Coach Lines. The remainder was placed in storage in the core storage facility located on Expo claim No. 237.

Drilling data, accompanying the report in Appendix D, consists of complete diamond drill logs for holes EC-139 to EC-144 and the bottom 51m (166') of EC-133. A copy of the drilling contract is given in Appendix C. The drill logs submitted in Appendix D were done by H. Muntanion whose signature is given below to cover all log sheets.

A handwritten signature in cursive script that reads "Harry Muntanion". The signature is written in dark ink and is positioned above a horizontal line.

H. Muntanion, B.Sc.
Project Geologist

REFERENCES

DAWSON, G.M. 1886

Geology of Rupert Inlet, Annual Report, Geological Survey of Canada.

MULLER, J.E. 1971

Chemistry and Petrology of Some Mesozoic Volcanic Rocks of Vancouver Island, British Columbia, G.S.C. Paper 71-1B, p. 5.

NORTHCOTE, K.E. 1970

Geology, Exploration and Mining in British Columbia, B.C. Department of Mines and Petroleum Resources pp. 267 - 269.

MULLER, J.E., NORTHCOTE, K.E., CARLISLE, D. 1973

Geology and Mineral deposits of Alert Bay-Cape Scott Map Area (92 L - 1021) Vancouver Island, British Columbia.

MUNTANION, H.R., WITHERLY, K.E.

Geophysical, Geochemical and Drilling Report on the Expo Group A, 1982.

APPENDIX A

STATEMENT OF QUALIFICATIONS

Field work for the report was done by H. Muntanion whose qualifications are outlined below:

H. Muntanion, Project Geologist for Utah Mines Ltd.,
Vancouver, B.C.

Completed B.Sc. in 1970 at the University of Manitoba; employed by: Canadian Nickel Co. in the summers of 1969 and 1971 as a student and field geologist, respectively; Amax, Vancouver, B.C. during the summer of 1970 as a geological assistant in the Yukon; The Manitoba Mines Branch during the 1972 field season as a field geologist; Hudson Bay Oil and gas Ltd., Toronto, Ontario during May to December, 1973 as a temporary geologist; Mindeco Ltd., Lusaka, Zambia from May 1974 to May 1977 as a geologist; Canadian International Development Agency, Ottawa, Ontario from August, 1977 to December, 1979 as geologist in Malaysia; Utah Mines Ltd. from April, 1980 to present under the supervision of A.J. Schmidt, P. Eng.

APPENDIX B

STATEMENT OF COSTS AND INVOICES

Road Building and Drill Site Preparation

Road Construction (Dec. 1 invoice)	\$ 22,892.89
Road Repair (Dec. 1 invoice)	400.00
Salaries (supervision):	
J.B. Richards Sr. Geologist 7 days @ \$175.00/day	1,225.00
H. Muntanion Proj. Geologist 5 days @ \$119.23/day	596.15
Accommodation:	
12 man days @ \$40.20/man day	<u>482.40</u>
Total	\$ 25,596.44

Diamond Drilling

Drilling (Invoices 2396, 2400, 2401, 2411)	\$ 112,170.88
Bulldozer Rental (Dec. 15, 22, Jan. invoices)	3,100.00
Drill Mobilization (Dec. 1, 15, 22, Jan invoices)	2,125.00
Core Assays:	
(Analyses: 251 Cu, 219 Mo, 251 Au, 92 Ag)	4,459.40
Core Geochemical Analyses:	
(72 Cu, 42 Mo, 52 Au, 5 Ag)	569.62
Salaries (supervision and geology):	
H. Muntanion Proj. Geologist 37 days @ \$119.23/day	4,173.05
J.B. Richards Sr. Geologist 9 days @ \$175.00/day	1,225.00
L. Gibbons Assistant 41.5 days @ \$65.00/day	2,697.50
Accommodation (including 4-man drill crew):	
174 man days @ \$40.20/day	<u>6,994.80</u>
Total	\$ 137,515.25

Miscellaneous Costs

Gasoline		\$	192.00
Vehicle Repairs			55.92
Airfares:			
7 airfares @ \$86.40 each			604.80
Map Reproduction			38.49
Report Preparation:			
H. Muntanion 3 days @ \$119.23/day			357.69
R. Gopal 1 day @ \$100.00/day			100.00
F. Haworth 0.5 day @ \$100.00/day			<u>50.00</u>
	Total	\$	1,398.90
	GRAND TOTAL		<u>\$ 164,510.59</u>

STATEMENT

BRUNER BROS. CONTRACTING LTD.
Box 193, Port Hardy, B.C.

12/14/82

DATE Dec 1 19 82

Utah Mines Exploration

Suite 1600, 10900 Pender St. Va. B.P. 66-357

Re D-6 road contract + Hourly for Nov/82

DATE	DETAILS	DEBIT	CREDIT	BALANCE
	as per contract			
	1800 ft of road @ 3000.00			3000 00
	227 ft of road @ 1.67 per ft			379 09
	5774 yds of rock placed @ 370 per yd.			19513 80
	Total on contract			22892 89
	Re-D-6 rental to repair existing road			
	remove slide + move drill			
Nov 16/82	✓ 8 hrs repairs to road + remove slide			
✓ 20	5.5 hrs move drill onto site			
✓ 21	2.25 hrs move drill onto site			
✓ 25	1 hr move drill			
✓ 29	1.25 hrs move drill			
	18 hrs @ 50.00			900 00
				23792 89

BRUNER BROS. CONTRACTING STATEMENT
 Box 193, Port Hardy, B.C.

12/21/82

DATE Dec 15 19 82

Utah Mines Exploration Dept.
Suite 1600, 1050 W. Pandar St.
Van. B.C. V6E 3S7

DATE	DETAILS	DEBIT	CREDIT	BALANCE
Re:	1-6 rental to move Drill			
	Dec 2-15 inclusive			
	14 days @ \$100.00		\$ 1400 00	
Dec 6	4.5 hrs.			
11	5.5 hrs.			
15	5 hrs.			
	15.0 hrs @ \$50.00		750 00	
			\$ 2150 00	
RECEIVED				
DEC 20 1982				
UTAH MINES LTD. EXPLORATION DEPT.				
			OK [Signature]	
			[Signature]	
			#	

STATEMENT

Bruner Bros. Contracting Ptd.
 Box 193 Pt. Hardy BC
 WOV 290

DATE Jan 1983

Utah Mines Exploration Dept

DATE	DETAILS	DEBIT	CREDIT	BALANCE
	Re P-6 rental to move drill			
	Dec 23 + Dec 26-31 inclusive			
	Jan 2-4 inclusive			
	10 days @ \$100			1000.00
Jan 5	move drill 7.5 hrs @ 10.00			1375.00
				1375.00
	Red Dog			
	W/LOG OFF			
	OK			
	JRM			

UTAH MINES EXPLORATION DEPT.



D.W. COATES
ENTERPRISES LTD.
 DIAMOND DRILLING CONTRACTORS

2560 A Simpson Road, Richmond, B.C. V6X 2P9
 Phone: (604) 273-0985
 Telex No.: 04357618

Utah Mines Ltd.
 1600 - 1050 West Pender Street
 Vancouver, B.C.
 V6E 3S7

INVOICE NO: 2396
 JOB NO: 474
 DATE: Dec. 2, 1982

TO: Holberg, B.C. Drilling
 PERIOD: November 18 - 30, 1982

DRILLING DETAIL	26,914.30
MOBILIZATION	4,408.00
MOVING BETWEEN HOLES	1,134.00
WATER SUPPLY	500.50
REAMING AND HOLE STABILIZING	1,664.00
MATERIAL LEFT IN HOLES	994.87
DRILLING WITH MUD	8,983.14
TRAVEL TIME	517.00
	<u>\$ 45,115.81</u>

J. K. Richards
Red Dog

* 32.79/ft.

RECEIVED

DEC 3 - 1982

UTAH MINES LTD.
 EXPLORATION DEPT.



UTAH MINES LTD.
DIAMOND DRILLING CONTRACTORS

2500 A. Simpson Road, Richmond, B.C. V6X 2P9
Phone: (604) 273-0111
Telex No.: 04357618

Utah Mines Ltd.
1600 - 1050 West Pender St.
Vancouver, B. C.
V6E 3S7

INVOICE NO.: 2400
JOB NO.: 474
DATE: December 22/82

Handwritten notes:
1000
1000
1000

RE: Holling, B. C. Drilling
PERIOD: December 1 - 15, 1982

Drilling Detail	\$25,462.40
Moving Between Holes	2,341.75
Water Supply	1,074.50
Reaming and Hole Stabilizing	4,369.75
Drilling with Mud	1,050.06
Standby	465.00
Travel Time	716.75
Material Left in Holes	1,711.71
Special Trip	2,336.28
	<u>\$39,528.20</u>

Handwritten:
OK
1. ed Day
9/3/82

UTAH MINES LTD. - LOCATION DEPT.					
DISTRIBUTION					
Location	Meter	Meter	Art	Exp	Amount
	1000	1000	0	0	21,100.00
	1000	1000	0	0	2,428.20
00			0	0	0
00			0	0	0
00			0	0	0
Job Received			Invoice & Amount		
Est. & prices			Amount		
Approved by			Amount Payable		
			Check No.		

UTAH MINES LTD.
DIAMOND DRILLING CONTRACTORS



D.W. COATES
ENTERPRISES LTD.
 DIAMOND DRILLING CONTRACTORS

Utah Mines Ltd.
 1600 - 1050 West Pender St.
 Vancouver, B. C.
 V6E 3S7

2560 A Simpson Road, Richmond, B.C. V6X 2P9
 Phone: (604) 273-0985
 Telex No.: 04357618

SET 12/23/82
ENTR 01/3/83

INVOICE NO.: 2401
 JOB NO.: 474
 DATE: Dec. 23/82

RE: Holberg, B. C. Drilling
 PERIOD: December 16 - 21, 1982

Drilling Detail	\$11,757.75 ✓
Demobilization	4,079.00 ✓
Moving Between Holes	1,235.00 ✓
Water Supply	225.50 ✓
Hole Stabilizing	525.00 ✓
Material Left in Holes	1,360.53 ✓
Drilling with Mud	3,663.80 ✓
Travel Time	282.00 ✓
Standby	58.00 ✓
	<u>\$23,186.58 ✓</u>

OK
Richard

UTAH MINES LTD. -- EXPLORATION DEPT.					
DISTRIBUTION					
Location	Major	Minor	Act.	Exp.	Amount
00	A405	040	0	0	11,757.75
00	A405	041	0	0	11,428.83
00		0	0	0	
00		0	0	0	
00		0	0	0	
Date Received			Invoice Amount		
Ext. & Prices			Discount		
Approved by			Amount Payable		
			Check No.		

RECEIVED
 DEC 23 1982

UTAH MINES LTD.
 EXPLORATION DEPT.



D.W. COATES
ENTERPRISES LTD.
 DIAMOND DRILLING CONTRACTORS

2560 A Simpson Road, Richmond, B.C. V6X 2P9
 Phone: (604) 273-0985
 Telex No.: 04357618

Utah Mines Ltd.
 # 1600 - 1050 West Pender Street
 Vancouver, B.C.
 V6E 3S7

1/13/83

INVOICE NO.: 2411
 JOB NO.: 474
 DATE: Jan. 12, 1983

RE: Holberg, B.C. Drilling
 PERIOD: December 16 - 22, 1982

DRILLING DETAIL	3,411.30
DEMOBILIZATION	211.50
DRILLING WITH MUD	717.49
	\$ 4,340.29

UTAH MINES LTD. -- EXPLORATION DEPT.					
DISTRIBUTION					
Location	Major	Minor	Act.	Exp.	Amount
00	A 405	040	0	0	3411.30
00	A 405	041	0	0	928.98
00		0	0	0	
00		0	0	0	
00		0	0	0	
Date received			Invoice Amount		4340.29
Ext. & Prices			Discount		
Approved by			Amount Payable		
			Check No.		

Red Dot

RECEIVED

JAN 13 1983

UTAH MINES LTD.
 EXPLORATION DEPT.

OK
Harry Montano

APPENDIX C

DIAMOND DRILLING AND ROAD CONSTRUCTION

CONTRACTS

AGREEMENT

THIS AGREEMENT, entered into this 15th day
of November, 1982 by and between
Utah Mines Ltd.

, a
corporation, hereinafter referred to as "Owner" and

Bruner Brothers Contracting Ltd.
P.O. Box 193
Port Hardy, B.C.

hereinafter referred to as "Contractor",

WITNESSETH:

WHEREAS, Owner desires to have Contractor carry out
a work program on certain lands controlled by Owner and
located in British Columbia, specifically on the Red Dog
claims, near Holberg, about 25 miles west of Port Hardy.

; and

WHEREAS, Contractor is desirous of performing such
work program for Owner and is fully equipped and capable to
perform such work;

NOW THEREFORE, in consideration of the covenants and
conditions hereinafter set forth, Owner and Contractor mutually
agree as follows:

1. WORK TO BE PERFORMED: Contractor agrees to
perform fully and completely all work requested by Owner
to be done by Contractor on the above mentioned lands,
such performance by Contractor to be in strict conformance
with the terms and provisions of this agreement and specifically
in conformance with those provisions set forth on Schedule I
attached hereto and by this reference incorporated herein.

All work to be performed by Contractor hereunder
shall be done at such times, such locations and in such
manner as requested by Owner, subject, however, to the specific
provisions set forth in Schedule I hereto.

It is understood that Owner may employ other contractors to perform work upon the subject property and Contractor shall conduct its operations so as to best cooperate with such other contractors, if so requested by Owner.

2. WORKMEN AND EQUIPMENT: Contractor agrees to furnish and maintain in first class operating condition the equipment, and supplies specified in Schedule I hereto, or necessary to perform the work as set forth in said Schedule I hereto, and all labor, including superintendence, and all other things whatsoever required or convenient to properly perform the work specified in this agreement and within the time herein required. Owner may require Contractor to discharge from the performance of this contract any employee deemed to be in any way objectionable by Owner. No equipment furnished by Contractor hereunder for use in the performance of this agreement shall, without the prior consent by Owner, be removed from the site of the work until such time as the performance of this contract shall be completed by Contractor.

3. COMMENCEMENT AND PROGRESS OF WORK: Unless otherwise specified in Schedule I herein, Contractor shall, within three (3) days after being notified by Owner to start work, commence work in the field at such locations as Owner may designate and shall thereafter continue diligently in the performance of the work at such rate of progress and at such locations as may be required by Owner and shall fully complete said work to the satisfaction of Owner.

4. NO REPRESENTATIONS TO CONTRACTOR: It is understood that Contractor has satisfied itself as to the nature and location of the work, the character of the soil, rock, or other materials to be encountered, the character, kind and quantity of equipment needed for the prosecution of the work, and the conditions under which the work is to be performed and Owner has made no representations to Contractor concerning the conditions to be

encountered in the performance of the work. No verbal agreement or statement shall affect or modify any of the terms or provisions of this contract and no change, amendment, or modification of the terms or conditions of this contract shall be valid unless reduced to writing and signed by Owner and Contractor.

5. LIENS AND CLAIMS: Contractor shall discharge at once all liens, claims, stop notices, or attachments which may be filed or levied in connection with the work done by Contractor under this agreement and shall pay all taxes levied upon Contractor, its employees, equipment, property, or operations and Contractor shall hold Owner, Owner's property, and the lands upon which the work called for in this contract is being performed harmless therefrom. Contractor shall pay promptly and in full the claims of all persons, firms, or corporations performing labor upon or furnishing equipment, materials, supplies, or power used in the performance of or contributing to the work described in this agreement.

Upon completion of work under this agreement, Contractor, if required by Owner, shall deliver to the Owner a complete release of all claims for taxes, liens, claims, stop notices, or attachments arising out of this agreement or receipts in full in lieu thereof and if required in either case, an affidavit that, to Contractor's knowledge, such releases or receipts include all labor and material for which a lien, claim, stop notice, or attachment could be filed.

6. LIABILITY FOR INJURIES AND PROPERTY DAMAGE: Contractor shall save harmless Owner, Owner's property, and the lands upon which the work called for in this agreement is being performed from all liability for injury to or death of persons and for damage to property in any way arising out of Contractor's performance under this agreement.

7. PATENT RIGHTS: Contractor shall save harmless Owner, Owner's property, and the lands upon which the work called for in this agreement is being performed from any claim, damage, or expense arising out of any action or proceeding for the infringement or alleged infringement of any patent arising out of Contractor's performance under this agreement.

8. PAYMENT: In consideration of the covenants of the Contractor herein set forth and the full and prompt performance of this agreement by Contractor, Owner agrees to pay to Contractor and Contractor agrees to receive and accept as full compensation for Contractor's performance of this agreement, and also for any loss or damage to Contractor arising out of this agreement or from action of the elements or from unforeseen difficulties or obstructions which may be encountered in the performance of the contract, and for all risks of every description to Contractor in connection with the work, those sums set forth in Schedule II attached hereto and by this reference incorporated herein.

9. TERM OF CONTRACT: Unless the provision of Schedule I shall specify a different length of time during which Contractor shall be bound to perform under the terms of this agreement, Contractor shall be obligated to perform for Owner under the provisions of this contract upon the lands hereinabove described, all work requested by Owner to be performed by Contractor during a period of six (6) months from and after the date of this agreement, provided, however, that Owner may, at any time after the completion of the minimum amount of work guaranteed to Contractor under the provisions set forth in Schedule I, terminate this agreement by giving notice of such termination to Contractor.

10. INSURANCE: Contractor shall obtain and carry during the period of this agreement at Contractor's sole cost the following insurance coverage:

Insurance Coverage	Minimum Limits
Comprehensive Liability Bodily Injury and Property Damage Liability including Contractual Liability and Completed Operations	Each Occurrence \$500,000.00 Aggregate \$500,000.00
Automobile Liability (Including Owned and Non-owned automobiles) Bodily Injury and Property Damage Liability	Each Occurrence \$500,000.00
Workers' Compensation and Employer's Liability	Statutory Each Accident \$100,000.00

No work under this contract shall be started until certificates of insurance conforming with the above minimum requirements are obtained and submitted to the Owner. Insurance companies must be satisfactory to Owner, and policies must provide that ten (10) days' written notice be given to Owner prior to cancellation or annulment.

11. COMPLIANCE WITH THE LAW: Contractor and its employees shall at all times observe and comply with all statutes, ordinances, and regulations of any nation, state, province, municipality or other governmental authority or agency having jurisdiction over the place where the work hereunder is being carried on.

12. PERMITS: Contractor shall obtain all permits and licenses necessary for the performance of this contract and shall give all necessary notices and pay all fees required by governmental agencies or by other authorities in connection with the performance of this contract.

13. SUPERINTENDENT: The Contractor shall have a competent superintendent, satisfactory to Owner, on the work at all times with authority to act for Contractor. The superintendent shall not be changed except with the consent of Owner unless the superintendent ceases to be in the employ of the Contractor.

14. CONTRACTOR NOT AGENT OF OWNER: In the execution of the work to be performed hereunder, Contractor shall operate as an independent contractor and not as an agent or employee of Owner. Contractor shall hold Owner harmless from any liability which may arise by reason of any action or representation of Contractor, its agents, or employees.

15. NOTICE AND PLACE OF PAYMENT: All notices to be given to Owner by Contractor hereunder shall be delivered to Owner's office at #1600 - 1050 West Pender Street,
Vancouver, B.C.. Any notice to be given by Owner to Contractor hereunder may be given by delivering such notice personally to Contractor's superintendent at the job site, or at Owner's option, such notice may be given by depositing said notice in any post office in an envelope, postage prepaid, and addressed to Contractor at P.O. Box 193, Port Hardy, B.C.

Such notice to Contractor shall be deemed to have been given either upon its delivery to Contractor's superintendent or by deposit in said post office as the case may be.

16. ASSIGNMENT: Contractor will not, without the previous written consent of Owner, assign this agreement nor subcontract any part or portion of work to be performed hereunder to any other party.

17. PROTECTION OF INFORMATION: No information whatsoever regarding the conduct, records, or results of any work performed by Contractor under this agreement shall be given or discussed by Contractor or any of Contractor's agents or employees in any manner to or with any party other than the Owner without the prior written consent of Owner.

18. SUCCESSORS: This agreement and each and every provision hereof shall insure to the benefit of and be binding upon the parties hereto and their successors and assigns.

IN WITNESS WHEREOF, the parties hereto have executed
this agreement as of the date hereinabove set forth.

OWNER
Utah Mines Ltd.

By _____

CONTRACTOR
Bruner Brothers Contracting Ltd.

By _____

SCHEDULE I

WORK PROVISIONS:

Bruner Brothers Contracting Ltd. agrees to comply with the following work provisions to efficiently complete the road building program on the Red Dog claims:

1. The Contractor will supply an experienced road building crew and suitable equipment in good repair (bulldozer, trucks, etc.).
2. Approximately 2,000 feet of sub-grade will be built, as previously indicated to the Contractor by the Owner's representatives, extending westerly from the end of the existing logging spur.
3. This sub-grade will be covered by approximately 18 inches of crushed, broken rip-rap rock, hauled by truck to site, and distributed over the sub-grade.
4. The completed road will be approximately 12 feet in width, with a shallow drainage ditch on the higher side. The surface will be compacted smooth, and will be suitable for travel by 2-wheel drive pick-up trucks.
5. Some minor road maintenance work is also planned for the access road leading to the construction site. This work to be done at the hourly rate.
6. Where needed, culverts will be installed by Contractor's crews working on an hourly rate.
7. The Contractor's D-6 bulldozer will remain on site for the use of the Owner's drilling Contractor for the movement of one diamond drill between holes.
8. The work will start on or about November 16, 1982. The work will be supervised and inspected by the Owner's field representatives.

SCHEDULE I (cont'd)

9. The Owner shall provide, at its own expense, all rights of way that may be required to enable Contractor to move to and from, and to operate on the sites specified by Owner. Contractor shall be permitted to fell and cut such timber as may be required in the course of the work hereunder upon the property controlled by Owner, provided, however, that Contractor shall comply with all the terms of Owner's permits allowing such timber cutting. Owner shall save the Contractor harmless from any assessments for stumpage.
10. This Agreement and any disputes arising hereunder shall be interpreted and determined in accordance with the laws of the province of British Columbia.
11. During the course of the work, the Contractor agrees at all times to keep operations free from accumulation of waste material, rubbish and garbage, and upon completion of the work, shall remove all tools, surplus materials and rubbish, and leave sites in a clean condition. The Contractor shall observe and comply with all applicable Federal and Provincial laws, regulations and orders relating to prevention of forest fires and sanitation.

SCHEDULE II

PAYMENT PROVISIONS

1. It is agreed that the 2,000 feet of sub-grade will be built at a cost of \$3,000.00.
2. It is agreed that suitable quality road surfacing rock will be delivered to the site and spread and smoothed at a cost of \$3.70 per cubic yard. Approximately 4,000 cubic yards are anticipated to be used (Contractor's verbal estimate).
3. Other road maintenance and culvert installation work shall be done at a cost of \$50.00 per hour.
4. The D-6 bulldozer shall be rented to Utah for its drilling Contractor's use at a cost of \$700.00 per week, plus \$50.00 per operating hour.
5. These above costs include all mobilization and demobilization, and all other transportation costs, as well as all fuel costs.
6. Contractor shall submit all invoices to the Owner at Utah Mines Ltd. twice monthly, that is for the period from the 1st to the 15th day and the 16th day to the last day of the month. Invoices shall be due and payable within thirty (30) days of receipt of an invoice by the Company. Payment shall be made to the Contractor in accordance with Paragraph 8 of this agreement. The prices set forth in this SCHEDULE II shall include all applicable taxes.

AGREEMENT

THIS AGREEMENT, entered into this 27 day
of April, 1982 by and between

Utah Mines Ltd.

, a
corporation, hereinafter referred to as "Owner" and

D.W. Coates Enterprises Ltd.

hereinafter referred to as "Contractor",

WITNESSETH:

WHEREAS, Owner desires to have Contractor carry out
a work program on certain lands controlled by Owner and
located in British Columbia, specifically the Expo Project
near Holberg, B.C.

; and

WHEREAS, Contractor is desirous of performing such
work program for Owner and is fully equipped and capable to
perform such work;

NOW THEREFORE, in consideration of the covenants and
conditions hereinafter set forth, Owner and Contractor mutually
agree as follows:

1. WORK TO BE PERFORMED: Contractor agrees to
perform fully and completely all work requested by Owner
to be done by Contractor on the above mentioned lands,
such performance by Contractor to be in strict conformance
with the terms and provisions of this agreement and specifically
in conformance with those provisions set forth on Schedule I
attached hereto and by this reference incorporated herein.

All work to be performed by Contractor hereunder
shall be done at such times, such locations and in such
manner as requested by Owner, subject, however, to the specific
provisions set forth in Schedule I hereto.

It is understood that Owner may employ other contractors to perform work upon the subject property and Contractor shall conduct its operations so as to best cooperate with such other contractors, if so requested by Owner.

2. WORKMEN AND EQUIPMENT: Contractor agrees to furnish and maintain in first class operating condition the equipment, and supplies specified in Schedule I hereto, or necessary to perform the work as set forth in said Schedule I hereto, and all labor, including superintendence, and all other things whatsoever required or convenient to properly perform the work specified in this agreement and within the time herein required. Owner may require Contractor to discharge from the performance of this contract any employee deemed to be in any way objectionable by Owner. No equipment furnished by Contractor hereunder for use in the performance of this agreement shall, without the prior consent by Owner, be removed from the site of the work until such time as the performance of this contract shall be completed by Contractor.

3. COMMENCEMENT AND PROGRESS OF WORK: Unless otherwise specified in Schedule I herein, Contractor shall, within 7 days after being notified by Owner to start work, commence work in the field at such locations as Owner may designate and shall thereafter continue diligently in the performance of the work at such rate of progress and at such locations as may be required by Owner and shall fully complete said work to the satisfaction of Owner.

4. NO REPRESENTATIONS TO CONTRACTOR: It is understood that Contractor has satisfied itself as to the nature and location of the work, the character of the soil, rock, or other materials to be encountered, the character, kind and quantity of equipment needed for the prosecution of the work, and the conditions under which the work is to be performed and Owner has made no representations to Contractor concerning the conditions to be

encountered in the performance of the work. No verbal agreement or statement shall affect or modify any of the terms or provisions of this contract and no change, amendment, or modification of the terms or conditions of this contract shall be valid unless reduced to writing and signed by Owner and Contractor.

5. LIENS AND CLAIMS: Contractor shall discharge at once all liens, claims, stop notices, or attachments which may be filed or levied in connection with the work done by Contractor under this agreement and shall pay all taxes levied upon Contractor, its employees, equipment, property, or operations and Contractor shall hold Owner, Owner's property, and the lands upon which the work called for in this contract is being performed harmless therefrom. Contractor shall pay promptly and in full the claims of all persons, firms, or corporations performing labor upon or furnishing equipment, materials, supplies, or power used in the performance of or contributing to the work described in this agreement.

Upon completion of work under this agreement, Contractor, if required by Owner, shall deliver to the Owner a complete release of all claims for taxes, liens, claims, stop notices, or attachments arising out of this agreement or receipts in full in lieu thereof and if required in either case, an affidavit that, to Contractor's knowledge, such releases or receipts include all labor and material for which a lien, claim, stop notice, or attachment could be filed.

6. LIABILITY FOR INJURIES AND PROPERTY DAMAGE: Contractor shall save harmless Owner, Owner's property, and the lands upon which the work called for in this agreement is being performed from all liability for injury to or death of persons and for damage to property in any way arising out of Contractor's performance under this agreement.

7. PATENT RIGHTS: Contractor shall save harmless Owner, Owner's property, and the lands upon which the work called for in this agreement is being performed from any claim, damage, or expense arising out of any action or proceeding for the infringement or alleged infringement of any patent arising out of Contractor's performance under this agreement.

8. PAYMENT: In consideration of the covenants of the Contractor herein set forth and the full and prompt performance of this agreement by Contractor, Owner agrees to pay to Contractor and Contractor agrees to receive and accept as full compensation for Contractor's performance of this agreement, and also for any loss or damage to Contractor arising out of this agreement or from action of the elements or from unforeseen difficulties or obstructions which may be encountered in the performance of the contract, and for all risks of every description to Contractor in connection with the work, those sums set forth in Schedule II attached hereto and by this reference incorporated herein.

9. TERM OF CONTRACT: Unless the provision of Schedule I shall specify a different length of time during which Contractor shall be bound to perform under the terms of this agreement, Contractor shall be obligated to perform for Owner under the provisions of this contract upon the lands hereinabove described, all work requested by Owner to be performed by Contractor during a period of 6 months from and after the date of this agreement, provided, however, that Owner may, at any time after the completion of the minimum amount of work guaranteed to Contractor under the provisions set forth in Schedule I, terminate this agreement by giving notice of such termination to Contractor.

10. INSURANCE: Contractor shall obtain and carry during the period of this agreement at Contractor's sole cost the following insurance coverage:

Insurance Coverage	Minimum Limits
Comprehensive Liability Bodily Injury and Property Damage Liability including Contractual Liability and Completed Operations	Each Occurrence \$500,000.00 Aggregate \$500,000.00
Automobile Liability (Including Owned and Non-owned automobiles) Bodily Injury and Property Damage Liability	Each Occurrence \$500,000.00
Workers' Compensation and Employer's Liability	Statutory Each Accident \$100,000.00

No work under this contract shall be started until certificates of insurance conforming with the above minimum requirements are obtained and submitted to the Owner. Insurance companies must be satisfactory to Owner, and policies must provide that ten (10) days' written notice be given to Owner prior to cancellation or annulment.

11. COMPLIANCE WITH THE LAW: Contractor and its employees shall at all times observe and comply with all statutes, ordinances, and regulations of any nation, state, province, municipality or other governmental authority or agency having jurisdiction over the place where the work hereunder is being carried on.

12. PERMITS: Contractor shall obtain all permits and licenses necessary for the performance of this contract and shall give all necessary notices and pay all fees required by governmental agencies or by other authorities in connection with the performance of this contract.

13. SUPERINTENDENT: The Contractor shall have a competent superintendent, satisfactory to Owner, on the work at all times with authority to act for Contractor. The superintendent shall not be changed except with the consent of Owner unless the superintendent ceases to be in the employ of the Contractor.

14. CONTRACTOR NOT AGENT OF OWNER: In the execution of the work to be performed hereunder, Contractor shall operate as an independent contractor and not as an agent or employee of Owner. Contractor shall hold Owner harmless from any liability which may arise by reason of any action or representation of Contractor, its agents, or employees.

15. NOTICE AND PLACE OF PAYMENT: All notices to be given to Owner by Contractor hereunder shall be delivered to Owner's office at #1600-1050 West Pender Street, Vancouver, B.C. V6E 3S7. Any notice to be given by Owner to Contractor hereunder may be given by delivering such notice personally to Contractor's superintendent at the job site, or at Owner's option, such notice may be given by depositing said notice in any post office in an envelope, postage prepaid, and addressed to Contractor at 2560 A Simpson Road, Richmond, B.C. V6X 2P9.

Such notice to Contractor shall be deemed to have been given either upon its delivery to Contractor's superintendent or by deposit in said post office as the case may be.

16. ASSIGNMENT: Contractor will not, without the previous written consent of Owner, assign this agreement nor subcontract any part or portion of work to be performed hereunder to any other party.

17. PROTECTION OF INFORMATION: No information whatsoever regarding the conduct, records, or results of any work performed by Contractor under this agreement shall be given or discussed by Contractor or any of Contractor's agents or employees in any manner to or with any party other than the Owner without the prior written consent of Owner.

18. SUCCESSORS: This agreement and each and every provision hereof shall insure to the benefit of and be binding upon the parties hereto and their successors and assigns.

IN WITNESS WHEREOF, the parties hereto have executed
this agreement as of the date hereinabove set forth.

OWNER _____

By _____

CONTRACTOR _____

By _____

D.W. Coates
President

SCHEDULE I

WORK PROVISION

1. The Contractor will provide equipment, supplies and crew to operate one Longwell Sizer 38 drilling rig, equipped for tractor or helicopter access, two ten hour shifts per day, including, but not limited to all necessary drilling machinery, bits, associated tools, and oils, repair parts, casing, rods, corebars, equipment required for pumping water, personnel and all necessary labour and supervision. Contractor shall at the commencement of work hereunder, transport all such equipment, supplies and crew to a discharge point, as near as practical to the land upon which the drilling programme is to begin.

2. Holes will be drilled NO wireline. In all instances, reasonable care shall be exercised to obtain the recovery of as high a percentage of core as the formation being drilled will reasonably permit. All such core shall be properly identified in correct order and placed in core boxes provided by Contractor. Contractor shall furnish a daily record sheet with holes drilled and footage noted. Said record is to be signed by the driller and will be used in computing payment for work done.

3. The location, depth and angle of each hole to be drilled by Contractor shall be specified by the Owner. Holes shall have a maximum depth of one thousand five hundred (1500) feet. The Owner guarantees four thousand (4000) feet of NO drilling under this agreement.

5. Should cavities or loose and caving materials, or other adverse conditions be encountered, so that in the opinion of the Owner and Contractor, further drilling in a hole is not practical, the hole may be abandoned, and the Contractor shall be paid at the rates specified in Schedule II attached hereto for the footage actually drilled, provided however, that the Contractor shall

SCHEDULE II

PAYMENT SCHEDULE

The Owner shall pay the Contractor, in Canadian funds, for work completed according to the following schedule:

1. Schedule of Rates - Coring: NQ

<u>From</u>		<u>To</u>	<u>Inclinations</u>	<u>Price/Foot</u>
0'	-	500' in depth	-45 to -90	\$19.40
500'	-	1000' in depth		\$20.55
1000'	-	1500' in depth		\$22.40

The schedule of rates includes a \$3.00 per foot diamond allowance for core bits, shells and casing shoes. Due to the potential for encountering extremely hard and broken quart-magnetite breccias, all diamonds consumed in excess of \$3.00 per foot shall be charged to the Owner. Diamond bits "burned" due to operator neglect shall not be included in the diamond cost. All other labour costs and other operating expenses shall be for the Contractor's account, except when reimbursed to Contractor by Owner as hereinafter provided.

2. Overburden: Triconing and Setting Casing:

<u>From</u>		<u>To</u>	<u>Price/Foot</u>
0'	-	50' in depth	\$19.50
50'	-	100' in depth	\$20.50
100' plus	-		Field Cost

It is understood that all holes are to be left cased unless the Owner specifically orders casing to be removed. The Contractor shall employ used HQ rod as casing when it is available and charge the Owner at its depreciated value.

3. Moving Between Holes - Setting Up - Tearing Down:

All time spent tearing down, moving the drill and equipment between sites, and setting up shall be charged to the

Company on a field cost basis for all labour, plus standby rates for the drill equipment.

The Company shall supply a suitable tractor or helicopter as required to aid in moving between sites at no cost to the Contractor.

4. Water Supply:

The laying, maintaining and removing of the waterlines and supply pump shall be performed on a field cost basis.

5. Mobilization - Demobilization:

The Contractor shall move his men, drill, equipment and supplies from his base to truck unload point and return from truck load point to his base for the lump sum of \$7,500.00.

The movement of men, drill, equipment and supplies from truck unload point to first hole site and return from last hole site to truck load point, including unloading and loading, shall be performed on a field cost basis.

The Company shall supply a suitable tractor or if necessary a helicopter to aid in mobbing and demobbing and for continuing supplies as the job progresses, at no cost to the Contractor.

6. Drill Sites:

The Owner shall prepare the access roads, and level suitable drill sites and pumping stations at no cost to the Contractor.

7. Reaming Casing and Cementing:

If ever necessary to help prevent cave-ins and maintain circulation, reaming casing and cementing shall be performed on a field cost basis.

8. Mud and Additives:

The mud and additives required to help penetrate the overburden and/or aid in core recovery if ever necessary, shall be supplied at cost on job site, plus twelve percent.

Time spent mixing mud and/or stabilizing the hole if ever necessary shall be charged on a field cost basis.

9. Core Boxes:

The Schedule of rates includes the supply of NO core boxes complete with a lid for each.

10. Fuel:

The schedule of rates includes the fuel required for operation of the drill and equipment.

11. Board and Lodging:

The Company would supply free room and board to the Contractor's personnel in the Company's camp.

12. Tests:

If requested by the Company, the Contractor shall take acid tests at the rate of three feet drilled at the depth the test is taken. Other surveys shall be performed at the field cost rate.

13. Travelling Time:

The schedule includes the first one-half hour spend travelling from the lodging site to job site and return per man per shift. Should the time be greater than one-half hour per man per shift, the "over" would be charged on a field cost basis.

14. Operating Field Costs:

When functions as noted above are performed on a field cost basis, the following schedule shall apply:

Labour	\$23.50 per man hour
38 Drill with Tower	\$23.00 per hour
Pump	\$ 2.50 per hour, per pump
Mud Mixer (when applicable)	\$ 1.50 per hour
4 x 4 Truck (when applicable)	\$10.00 per hour
Materials Consumed	At cost on job site + 12%

15. Standby Rate:

Waiting for instructions from the engineer, waiting for cement to set, or other delays beyond the Contractor's control:

Labour (max. 8 hrs/man/shift)—————\$20.00 per man hour

Drill & Equipment (max. 8 hrs/day)—————\$18.00 per hour

16. Billing and Payment:

Contractor shall submit all invoices to the Owner at Utah Mines Limited. Payment shall be made to the Contractor in accordance with Paragraph 8 of this agreement form. The prices set forth in this Schedule II shall include all applicable taxes and insurance.



D. W. COATES

ENTERPRISES LTD.

diamond drilling contractors

2560 A Simpson Road, Richmond, B.C. V6X 2P9 — Phone: (604) 273-0985
Telex No.: 04357618

November 9, 1982

Mr. J. B. Richards
Senior Geologist
Utah Mines Ltd.
1600 - 1050 W. Pender Street
Vancouver, B.C. V6E 3S7

Dear Byron:

Re: Addendum to the Agreement Between
Utah Mines Ltd. and D.W. Coates
Enterprises Ltd., for diamond
drilling at the Red Dog Property

As per our meeting and discussion of November 8, 1982 regarding further drilling at the Red Dog project under the terms of our present agreement, we enclose for your perusal and approval three copies of the following addendum made necessary due to the present winter climatic conditions:

Reference: Agreement Dated 27th day of April, 1982

Schedule II, PAYMENT SCHEDULE

Item 4. Water Supply

add:

The Owner agrees that should it become necessary to heat water due to freezing conditions, the Contractor would employ a coil stove and charge the Owner at the rate of \$1.50 per hour of actual use plus the fuel consumed.

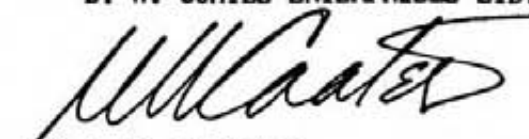
There are no further addenda to the agreement.

Should this addendum meet with your approval, would you kindly so signify by returning one signed copy and retain two copies for your files.

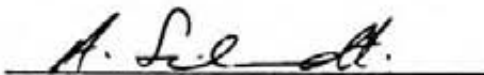
Should you have any questions, please do not hesitate to contact us.

Yours very truly,

D. W. COATES ENTERPRISES LTD.


For J. R. Forsythe

Accepted on Behalf of
UTAH MINES LTD.



Accepted on Behalf of
D. W. COATES ENTERPRISES LTD.

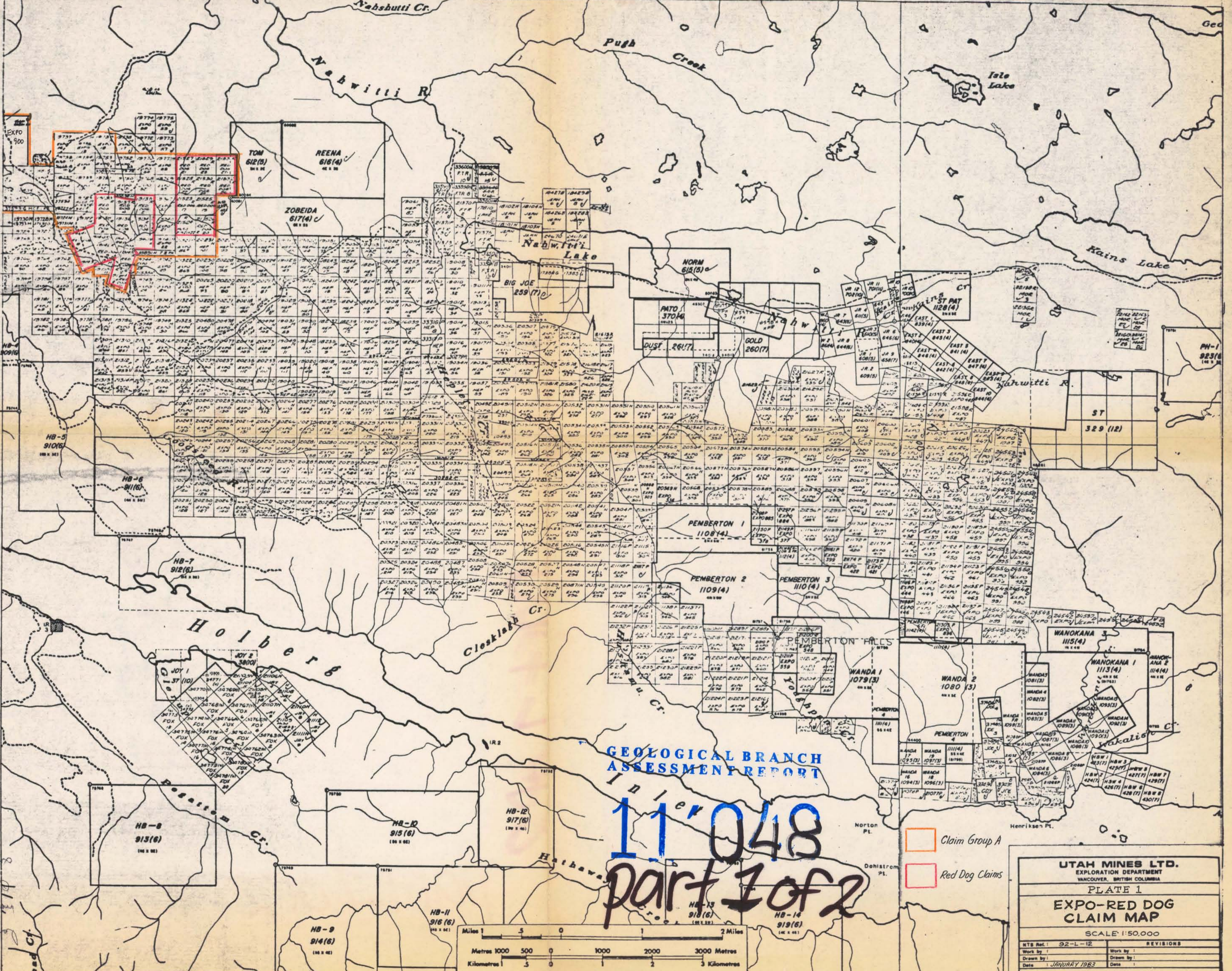


M92L/12W

5

TO WEST SEE MAP 1021/9E

3



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

11048
part 1 of 2

- Claim Group A
- Red Dog Claims

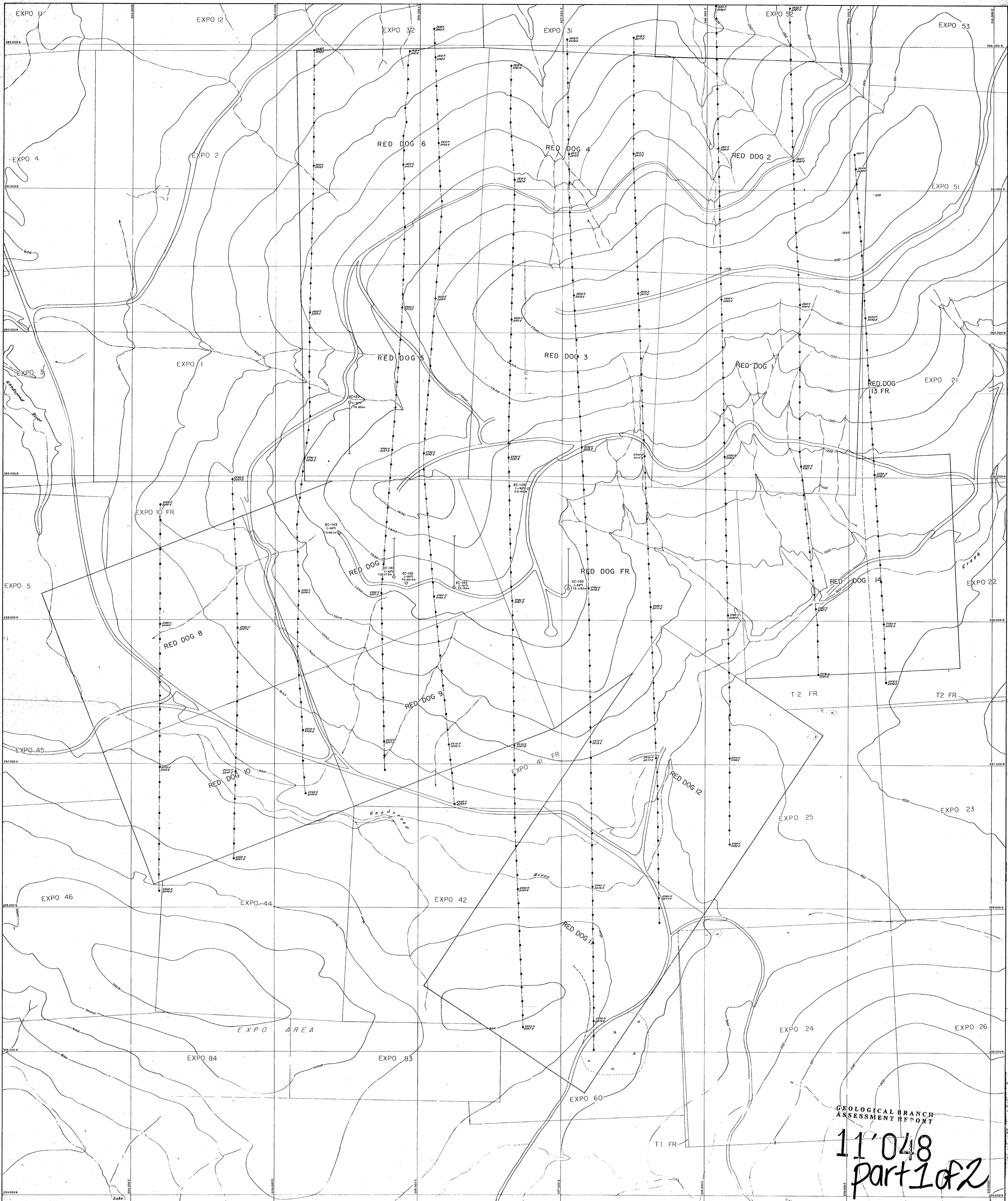
UTAH MINES LTD.
EXPLORATION DEPARTMENT
VANCOUVER, BRITISH COLUMBIA

PLATE 1

**EXPO-RED DOG
CLAIM MAP**

SCALE 1:50,000

NTS Ref: 92-L-12	REVISIONS
Work by:	Drawn by:
Date: JANUARY 1983	Data:



GEOLOGICAL BRANCH
ASSESSMENT REPORT

11'048
part 1 of 2

Diamond Drill Hole (100--Dec. 1952)
 Showing direction (Approx) of drilling
 Drill Number — EC-140
 Inclination — 1-45°
 Total Depth — 10,165' ±

Contours in feet
 Note: Date of Photography 10/1/51
 Latest topographical has been added above the grid line
 254,000' N

UTAH MINES LTD.	
EXPLORATION DEPARTMENT	
HARCOVER, BRITISH COLUMBIA	
RED DOG PROPERTY — Expo Area	
DRILL HOLE LOCATION	
Sheet No. 11	Scale 1:2400
Work by: J. H. MONTAGNO	Work by: J. H. MONTAGNO
Drawn by: J. H. MONTAGNO	Drawn by: J. H. MONTAGNO
Date: MAY 1951	Date: MAY 1951