DU PONT OF CANADA EXPLORATION LIMITED

REPORT ON EXPLORATION

ATLIN-MCKEE PROJECT

MCKEE CREEK, ATLIN MINING DISTRICT

BRITISH COLUMBIA

SEPTEMBER 1976 - APRIL 1977

NTS: 104-N-5

by

C.B. Gunn, P.Eng.

MINERAL RESOURCES BRANCH ASSESSMENT REPORT

NO.

Vancouver, B.C.

May, 1977

TABLE OF CONTENTS

	Page No.
SUMMARY	1
INTRODUCTION	1
PROPERTY	1
LOCATION AND ACCESS	1
HISTORY AND PRODUCTION	2
GEOLOGY AND MINERALIZATION	2
DU PONT OF CANADA EXPLORATION RESULTS	4
CONCLUSIONS AND RECOMMENDATIONS	5

*

LIST OF MAPS

Dwg.	No.	AM.76-3	PROPERTY LOCATION MAP	Facing page 1
Dwg.	No.	AM.76-4	CLAIM MAP	Facing page l
Dwg.	No.	AM.76-6a	SEISMIC REFRACTION STUDY	In pocket
Dwg.	No.	AM.76-6b	SEISMIC REFRACTION STUDY	In pocket
Dwg.	No.	AM.76-7c	GENERAL SURFACE PLAN	In pocket
Dwg.	No.	AM.77-2	DRILL PLAN AND SECTIONS	In pocket

APPENDICES

APPENDIX 1

Report on Seismic Refraction Study

APPENDIX 2

Schedule A - Parts 1 and 2

APPENDIX 3

,

Drill Logs - Becker Hammer Drill

APPENDIX 4

Assay Certificates

APPENDIX 5

Drilling Costs

SUMMARY

In order to test a hypothesis that a prtentially valuable buried gold placer channel exists in the McKee Creek Valley, a group of placer leases and mineral claims were optioned by Du Pont of Canada Exploration Limited in 1976. In September and October the property was mapped and a reconnaissance refraction seismic survey made. А feature which warranted drilling was outlined. Test drilling with a Becker hammer drill was carried out in April 1977 which proved that the feature suspected to be a buried channel is a bedrock shear zone with no placer potential. Surface examination and chip sampling of exposed bedrock shear zones in the vicinity of the existing placer workings revealed only minor and subeconomic values in precious metal and other mineral contents. No further work is recommended and the property is to be returned to the owners.

INTRODUCTION

This report describes the exploration work carried out by Du Pont of Canada Exploration Limited on McKee Creek in 1976 and 1977. The object of this work was to discover and evaluate a supposed buried gold placer channel in the upper reaches of McKee Creek. The work was carried out under the direction of C.B. Gunn of Du Pont of Canada Exploration Limited under an option agreement with John Harvey and Harvey Evenden, joint owners of a group of placer and mineral claims on McKee Creek.

PROPERTY

The property covered by the agreement consists of 9 placer leases and 3 mineral claims as shown on the report claim map (Dwg. AM.76-4) and described in Schedule A, (Appendix A). Under the terms of the option any additional leases or mineral claims acquired within a 4 mile radius of the junction of McKee and Eldorado Creeks would be included in the agreement. The granting of placer leases Rain #1 and Rain #2, staked by Du Pont in 1976 and also placer leases 465 and 464, staked by Harvey has been delayed pending a visit of the mining inspector to the area on May 29, 1977.

On April 19, 1977, 3 mineral claims were grouped into a new unit called the Canary claim (39 units) and assessment work was recorded sufficient to hold this claim in good standing until April 19, 1978.

LOCATION AND ACCESS

The property is on McKee Creek, 15 km (9 miles) southeast of the town of Atlin, Atlin Mining District, B.C. It is in NTS quadrangle 104-N-5 at 59°29'N, 133°32'W at an elevation of approximately 3250'.





The property is accessible by all weather gravel road from Atlin as far as the McKee Creek bridge. From there a private 2-wheel drive mine access road leads to the claims, one mile upstream. A jeep road runs from the mine site to the Du Pont camp area. The camp has been removed.

A full range of essential services, including airport, float base, helicopter base and Mining Recorder, as well as accommodation is available in Atlin. A 96 km (60 mile) road links Atlin with the Alaska Highway at Jakes Corner, Y.T. The city of Whitehorse is 192 km (120 miles) by road from Atlin and is accessible on a year round basis. Whitehorse is serviced daily by commercial air, rail and truc! transport services.

HISTORY AND PRODUCTION

Placer gold was discovered on McKee Creek in 1898 although it is possible that Russian trappers visiting from the Alaska coast were aware of its presence before then. Mining on the creek has been almost continuous to the present day by a number of companies, among them the following:

1900-1904	Atlin Mining Co.
1904-1908	Amalgamated McKee Creek Mining Co. Ltd.
1908-1913	Pittsburgh British Gold Co. Ltd.
1913-1932	Delta Mining Co. Ltd.
1934-1937	Atlin Gold Mines Ltd.

Thereafter work continued intermittently to the present day.

There are presently two mines on the creek. Antonio Vesnaver is drift mining gold bearing gravels under the north bank of the lower creek and John Harvey has been hydraulicking on the optioned property. Harvey has been active on the creek since 1973 when he acquired leases previously held and worked by Bruce Morton. Lacking sufficient funds and expertise to explore for the buried channel he optioned the property to Du Pont in 1976. During 1976 Du Pont examined and mapped the property and carried out a seismic reconnaissance survey.

Harvey has recovered in his sluice box a number of large very angular gold nuggets intimately mixed with white quartz vein. From their appearance these have been washed more or less directly from pyrite bearing quartz veins and shear zones in the bedrock.

In 1976 an assay of pyrite, recovered from Harvey's sluice box, returned a value of 172.8 oz/ton Au, and 53.52 oz/ton Ag.

GEOLOGY AND MINERALIZATION

The area lies in the northern part of the Intermontane Belt of the Canadian Cordillera. McKee Creek and the surrounding area north to Atlin and south to O'Donnel River is underlain by a thick sequence of Late Paleozoic Cache Creek group limestones, cherts and basalts. These are intruded by irregularly spaced and sized ultramafic bodies (the Atlin intrusions). Further to the north, northeast and southeast are large areas underlain by granitic rocks of the coast intrusions and Cretaceous alaskite-quartz monzonite bodies. Granitic intrusive rocks may underlie the McKee Creek area at no great depth.

The geology of the Atlin area is described by J.D. Aitken in G.S.C. Memoir 307. In the area of the property the Cache Creek rocks are folded into broad, generally northeast-southwest trending, faulted fold structures.

Monger (G.S.C. Paper 74-47) has ascribed the rocks underlying McKee Creek to the Nakina and overlying Kedahda formations. The Nakina Formation contains three main lithologies, basalt, diabase and lithic tuff. The basalt is conformable with bedded chert of the Kedahda Formation, the diabase locally intrudes it and the lithic tuff is gradational with it so that the junction between the two formations is ill defined. Observations by Du Pont confirm the above observations except that significant pods and lenses of banded limestone and limestone breccia are also present in the creek beds and banks.

The basalt is typically yellowish or greenish grey but may be locally maroon or purple. Much of the volcanic rock is dense and fine grained. Occasionally pillows weather out as discrete boulders.

In the southern part of the property where bedrock has been exposed by hydraulic mining, at least two north-trending zones of strong shearing underlie the existing placer workings. The shear zones are extensively weathered to red and yellow clay and blue chloritic In many parts of the shear zone conspicuous emerald green mud. sheens of mariposite coat the fault breccia fragments. Small outcrops of pale cream talcose rock represent sheared lenses of ultramafic In the vicinity of the Harvey sluice box the shear zone rocks. is shot through with guartz veins and stringers with disseminated pyrite, arsenopyrite, minor galena and chalcopyrite. The recovery in the sluice box of free nugget gold attached to white guartz vein and an assay of pyrite which contained 172.8 oz/ton Au and 53.52 oz/ton Ag suggest that the shear contains potentially economic concentrations of gold. However, chip samples taken by Du Pont of Canada Exploration Limited in 1977 returned only low values (see Appendix 4). This shear zone is at least 25 m wide and of unknown length. A second and similar zone is present in the bedrock drain 150 m to the northeast. Shearing of this magnitude can be expected to have considerable strike continuity and may well by a source of the placer gold.

Fragments of bedrock brought to the surface by blasting during the seismic survey indicate that the north bank of McKee Creek is underlain largely by greenstones. Becker drilling showed that the seismic "low velocity" zone on lines 2+50N and 5+00N was due to underlying sheared greenstone with included chert and limestone and particularly to talcose sheared ultrabasic rocks similar to those seen in McKee Creek close to the J.R. Harvey workings.

DU PONT OF CANADA EXPLORATION RESULTS

According to Harvey and others, a buried channel should run parallel to McKee Creek on the north bank from a point at the head of the previous hydraulic workings and about opposite the confluence cf Eldorado and McKee Creeks. Such a view has been current for a long time among those prospectors and miners familiar with McKee Creek. In order to test this hypothesis, Du Pont in September and October of 1976 surveyed the area at a scale of 1:1000, cut a grid and ran a seismic reconnaissance survey. The seismic survey was carried out under contract to Du Pont by Geotronics Surveys under Du Pont supervision and their report is attached for reference as Appendix 1. The results of the seismic survey are shown as profiles superimposed on Du Pont's property map. (See Seismic Refraction Study, Dwg. AM.76-6 a, b).

The seismic survey indicated that much of the area of interest is underlain by bedrock at shallow depths. However, in the area where the buried channel was thought to lie a low velocity zone was discovered which could be interpreted as indicating the presence of a buried channel.

To confirm the presence or absence of such a channel a drilling contract was negotiated with Becker Drills Limited of Vancouver and after construction of access roads the drill was hauled on to the property on April 14, 1977. The Becker hammer drill, commonly used for placer exploration, drives a double wall drive pipe and retrieves the cuttings continuously by compressed The unusually early breakup this year made the positioning air. and operation of this truck mounted drill unusually difficult. However, between April 14th-21st, 10 holes were drilled to bedrock. Seven of these were in the vicinity of line 2+50N, 1 on line 5+00N and 2 on the access road in McKee Creek. (See Drill Plan and Sections, Dwg. AM.77-2). A total of 93.65 m (307 ft) was drilled.

The results of the drilling showed conclusively that the seismic feature which might have represented a buried channel was caused by sheared greenstones and ultrabasic lenses at shallow depths. No buried channel is present. The discovery of till in Hole #10 in the bottom of the existing McKee Creek indicates that the present line of the creek was in existence at least some time during the glacial period. It had previously been thought that

TABLE 1

BEDROCK CHIP SAMPLE ASSAYS

EASTER CLAIM (P.L. 1790)*

Sample #	Length	Туре	% <u>Cu</u>	Ag oz/ton	Au oz/ton	
2161	1.0 m	Panel Chip	0.01	0.02	0.003	Weathered pyrite shear zone at mouth of sluice box.
2162	0.75 m	Panel Chip	< 0.01	0.01	0.005	Adjacent to 2161
2163	1.0 m	Panel Chip	< 0.01	<0.01	<0.003	0.5 m white quartz vein in sheared volcanics, strong green stain on north side.
2164	2.65 m	Panel Chip	<0.01	<0.01	۲۵.003	Weathered shear zone with quartz vein. Rusty weathering & green stair
2165	1.3 m	Panel Chip	۲0.01	<0.01	۲0.003	As 2164
2166	1.25 m	Panel Chip	< 0.01	<0.01	<0.003	Manganese stained shear zone with quartz vein containing fine pyrite cubes.

Semi quantitative spectrographic analyses of the above samples did not reveal the presence of any unrecognized mineral content of commercial significance.

*For locations see "General Surface Plan" Dwg. AM.76-7c. See assay sheets Appendix 4.

.

.

ł

the existing course of McKee Creek above the placer workings was probably a post-glacial feature.

The positions and depths of the drill holes are shown on the profiles on Dwg. AM.77-2. The drill logs are included in the report as Appendix 3. All the material obtained from the drilling was bagged in 1 metre lengths in heavy polythene sacks, identified by sample tag, and stored at the property for future reference if required.

In addition to the drilling, chip sampling was carried out on exposed bedrock sections in the vicinity of the placer workings where shearing, quartz veining and red and green staining indicates the possible presence of economically significant mineralization. The results of this sampling are shown in Table 1 and the locations of the samples are shown on Dwg. AM.77-2. Assay sheets are included as Appendix 4.

CONCLUSIONS AND RECOMMENDATIONS

The supposed buried channel, long thought to exist on the north flank of McKee Creek above the old hydraulic workings, has been shown by a combination of seismic refraction and Becker drilling not to exist.

The ambiguous interpretation of parts of the seismic profiles on lines SL 0, SL 1 and SL 2 has been satisfactorily resolved by drilling. The "zone of lower velocity" is due to the presence of a bedrock shear zone in which ultrabasic rocks now altered to serpentine and talc are included.

The discovery of glacial till below the water table in the existing McKee Creek gorge indicates that the gorge section of the creek is older than was supposed and it is no longer necessary to postulate the presence of a preglacial drainage in another location.

In view of the lack of encouragement, both with respect to placer and bedrock gold potential, no recommendations are being made for further work.

CERTIFICATION

I, Christopher B. Gunn, of 2867 Panorama Drive, North Vancouver, B.C. hereby certify that:

- 1. I am a professional geologist and have been engaged in the practice of geology and mineral exploration since 1962 in Europe, Africa, Central and North America.
- 2. I hold a B.Sc. Honours degree in geology from the University of Wales and a Master of Science degree in geology from the University of Western Ontario.
- 3. I am a Registered Professional Engineer in the provinces of British Columbia and Ontario. I am also a Chartered Engineer of the United Kingdom.
- 4. The work described in this report was carried out by me or under my personal supervision.
- 5. I do not hold any beneficial interest, direct or indirect, in the subject property; nor do I expect to receive any such interest.



APPENDIX 1

REPORT ON SEISMIC REFRACTION STUDY



🗡 Telephone 687-6671

302 - 475 HOWE STREET

VANCOUVER, B.C. V6C 2B3

Du Pont of Canada Explorations Ltd 102-1550 Alberni Street, VANCOUVER, B.C. V6G 1A5

December 3, 1976

Attention: Christopher B. Gunn

Dear Sirs:

RE: SEISMIC REFRACTION SURVEY ATLIN-MCKEE CREEK PLACER DEPOSIT ATLIN M.D., B.C. Our Job No. 76-46

The interpretation of data obtained from the seismic refraction survey carried out on McKee Creek has been completed. A total of seven lines, located as shown on the accompanying drawing AM76-5,* were profiled. The purpose of the survey was to locate a buried river channel that was postulated to occur in this area. The geophysical information presented here is based upon our best interpretation of field data which were collected according to generally accepted field procedures.

The procedure was as follows: 12 geophones were planted at 50 or 100 foot intervals along the line of investigation. The 'two-way, in-line' seismic refraction method was used. The data were generally recorded from seven shots, two offend, one at each end and three at 1/4-spread intervals within the spread. A 12-channel, SIE Dresser refraction seismic system was used for recording.

A 100-foot spread was used only on SL-1 (L2+50N) which was the first line completed. It was found that the overburden was too shallow for accurate depth determinations and therefore a 50-foot spread was used from then on.

*Now Dwg. AM.76-6a, b

The data were first interpretted in the field by calculating the delay time for each geophone. The procedure is as follows:

- 2 -

- Pick the first arrivals from the field records and draw time-distance graphs for each spread;
- 2. With the help of a 'Russian', determine which points are bedrock and which are overburden, and how many layers occur in the overburden;
- 3. Draw a delay line for each end shot and from this determine the delay time for each geophone;
- 4. Proportion the delay time for each geophone into the various times spent in the various layers. Multiply each layer time by the corresponding layer velocity to obtain the layer thickness. Adding the layer thickness together will give the total overburden depth.

Profiles were drawn in the field for lines SL-0 to SL-4. SL-5 and SL-6 were completed on the last day and therefore the field profiles were not calculated for these two lines.

In two or three of the lines, some difficulty was encountered in the field interpretation and therefore the data was put through a computer-assisted interpretation developed by the U.S. Bureau of Mines. The procedure consisted of the following steps:

- 1. Calculate the depth and velocity of the overburden after making elevation corrections;
- 2. Decide the number of layers represented by the data and assign each data point a correct layer number;

3. The computer program then went through a modelling sequence whereby the delineation of the interface was done by a ray-tracing procedure which started out by computing the time taken by the ray to reach each geophone location. Any discrepancy between the calculated and observed times was corrected by the subsequent adjustment of the boundaries.

- 3 -

4. The program does not take into account lateral variations in the velocities. This could lead to erroneous depths. All computer assisted interpretations were therefore checked manually with the observed travel time plots. Any discrepancies were subsequently corrected in the final interpretation.

The computer assisted interpretted profiles are shown on drawing No. AM76-6 which is drawn at a scale of 1:1,000 (1 cm = 1 meter). The profiles are placed so that the separation between each line along the baseline is drawn to the same scale. The overburden/bedrock interface as interpretted in the field is shown by a dashed line on each profile. This was put in because of the added information contained in the field profiles, that did not show on the computer interpretation.

We would like to bring the following points to your attention:

- In general, the depth to bedrock is apparently rather shallow. It varies from only 20 meters on SL-5 to 2 meters on SL-2.
- 2. The bedrock is shown to have a velocity of 2,900 to 3,500 meters/sec as interpretted by the U.S. Bureau of Mines program. This program averages the velocity over the entire spread length and does not take into

- Geotronics Surveys Ltd. ----

account lateral variations. On spreads SL-1 and SL-2, the field interpretation showed a bedrock velocity of about 1,400 feet/sec with a zone of lower velocity within both spreads of 3,000 to 3,350 meters/sec. The lower velocity could be reflecting a shear zone, or, very possibly, a clayfilled channel (see Note No. 3)

- 3. From field examinations of clay layers, we feel the clay could easily have velocities of about 3,000 meters/sec. It is, therefore, strongly possible there are velocity inversion layers in this area, that is, clay layers underlain by sands and gravels. The clay layers then could mistakenly be interpretted as bedrock. The depth to bedrock could then be much deeper than is shown on profiles SL-3 to SL-6.
- 4. Except for SL-3, the fit is generally quite good between the two interpretations. The variation on SL-3 is caused by the inability of the field interpretation to calculate the proper thickness of one or more of the overburden layers.
- 5. The shot between geophones 3 and 4 exposed a fractured rock that appeared to be a bedrock exposure of peridotite. However, the velocity in this area is only 1,400 meters/sec, which is rather low, even for fractured bedrock. If it is bedrock, then all such velocities on this and the other profiles could be reflecting fractured bedrock. We feel the more likely possibility is that the rock is in fact a large boulder.

6. If the channel is comparatively narrower to depth, the first arrivals from such an interface may be refractions from the channel side rather than the bottom and the channel may appear shallower.than it actually is.

- 5 -

VELOCITY CLASSIFICATION

Velocity (meters/sec)

340 - 490 600 - 760

1,000 - 1,500

2,900 - 3,500

Material

Loose surface material

More compacted surface material

Sands, gravels (around 1,500 probably wet sands and gravels) fractured bedrock?

bedrock, possibly clay lenses

Respectfully submitted, GEOTRONICS SURVEYS LTD.,

David G. Mark Geophysicist

DGM:vsm

APPENDIX 2

.

į

.

r

SCHEDULE A

APPENDIX 2

SCHEDULE A - PART 1

Placer Leases

Lease No.	Name	Tag No.	Lease Expiry Date (3)	Anniv. Date
PL 1790	Sunrise #2	269481M	13/4/81	23/10/77
PL 1791 .	Sunrise #3	269482M	13/4/81	23/10/77
PL 1796	Sunrise #4	269024M	13/4/81	23/10/77
PL 465	Sunrise #5	416927M	-/-/87 ⁽²⁾	
PL 464	Sunrise #6	416928M	-/-/87 ⁽²⁾	
(1)	Rain #1	416948M	$-/-/87^{(2)}$	
(1)	Rain #2	416949M	-/-/87 (2)	
PL 1655	Fido	872935M	1/6/90 ⁽⁴⁾	23/10/77
PL 1690	Fortuna	80689M	1/6/90 ⁽⁴⁾	23/10/77

Notes

- 10 year lease applied for by Du Pont 27/8/76. Lease No. not yet assigned. Staked in the name of T.M. Harrison, to be transferred to Du Pont.
- 2. 10 year terms applied for but not yet granted.
- 3. Rental and assessment work required each and every year to maintain lease in good standing. Rental for each lease is \$50 annually and work requirement for each lease is \$250. Cash in lieu may be paid once in a three year period.
- 4. Assigned to J.R. Harvey by Antonio Vesnaver 23/8/76.

APPENDIX 2 (continued)

SCHEDULE A - PART 2

Mineral Claims

Claim	Units	Tag No.	Recorded	Anniv. Date
Easter	12	19011	20/4/76	20/4/77 (2)
Sunday ·	9	19140	15/6/76	15/6/77
J.R. Harvey	18	19139	15/6/76	15/6/77

Notes

1. 30 day extension for filing work permitted.

2. On April 19, 1977 application was made to group the Easter, Sunday and J.R. Harvey claims into the Canary group and work filed sufficient to hold this group until 19/4/78.

3. Assessment work requirement is \$200/unit/year.

4. Rental requirement is \$10 per \$200 work or \$20 per \$200 cash in lieu.

APPENDIX 3

DRILL LOGS - BECKER HAMMER DRILL

													•		
			·•								-•				
			· · ·												
					• =				-					•	
-		•			~		- · -							-	
												•			
			— <u> </u>		· - •	• •							- ·		
			•			<i></i> ,									
		_	5 			· - *									
			DRILL HOLE RECORD							SHEE	T No.(Oi	f:2			
00111		. Becker	Drills Limited	AC	10 8/	OR TR	0 - PAR		STS	. HOLE	NUMBER	PD	DE 77-	1	
UNICE			-1 LENGTH 19.5 I	FOOTAGE	DIP	AZIMUTH	FOCTAGE	DIP	AZINALH	PROP	ERTY:	A:	tlin-Me	cKee	
HOLE		McKee (Creek DIP: Vertical							ACCC	UNT No.3.		25-00		
				1	1					CODE	C:75.	6	5/8"	CD	
	TUDE .	2+50 N	DEPARTURE : 1+84 E		<u> </u>	i				00002	31251		· · —		
LATI	TUDE :	2+50 N	DEPARTURE : 1+34 E		·	ļ			ļ	% CO	RE RECOVI	ERY:	· · · · · · · · · · · · · · · · · · ·		
LATI	TUDE : ATION	2+50 N	DEPARTURE : 1+84 E AZIMUTH :							% CO	RE RECOVI	ÉRY:C.	Gunn		
LATI ELEV HOLE	TUDE = ATION START	2+50 N	DEPARTURE : 1+34 E AZIMUTH : 14, 1977 HOLE COMPLETED: April 15, 1977							% CO	RE RECOVI	ÉRY:C.	Gunn		
LATIT ELEV HOLE	TUDE = VATION START FCOT	2+50 N ED: April	DEPARTURE : 1+34 E AZIMUTH : 14, 1977 HOLE COMPLETED: April 15, 1977		 			SAM	MPLE	LOGG	IED BY:	ÉRY:C.	Gunn A S	SAYS	
LATIT ELEV HOLE	TUDE = VATION START FCOT	2+50 N FED: April FAGE WIDTH RCVRY	DEPARTURE: 1+84 E AZIMUTH: 14, 1977 HOLE COMPLETED: April 15, 1977 DESCRIPTION			NUNBER	SULFIDES	S A 1	APLE	% CO	RE RECOVI	ERY:C.	Gunn A S	SAYS	
E LATIT ELEV HOLE FROM	TUDE - ATION START FCOT TO	2+50 N ED: April AGE WIDTH RCVRY 1 m -	DEPARTURE:1+34 E AZIMUTH: 14, 1977 HOLE COMPLETED: April 15, 1977 DESCRIPTION Organic material - peat and muck			NUNSER	SULFIDES	SA	APLE Foo	% C0 L066	RE RECOVI	C.	Gunn A S	SAYS	
LATIT ELEV HOLE FROM 0 1 1 2	TUDE = ATION START FCOT TO	2+50 N ED: April AGE W:DTH RCVRY 1 m - 1 m	DEPARTURE:			NUNBER 2801	SULFIDES	S A 1	APLE To	% C0	RE RECOVI	ERY:C.	A S	SAYS	
ELEV HOLE FROM 0 1 1 2 2 3	TUDE = VATION START FCOT TO I m 2 m 3 m	2+50 N FED: April FAGE WIDTH RCVRY 1 m - 1 m 1 m	DEPARTURE:			NUNBER 2801 2602	SULFIDES	S A 1	APLE Fee		SIZE	ERY:C.	A S	SAYS	
ELEV HOLE FROM 0 1 1 2 2 3 3 4	TUDE = VATION START FCOT 10 10 20 3 m 4 m	2+50 N ED: April AGE WIDTH RCVRY 1 m - 1 m 1 m 1 m	DEPARTURE:			NUWBER 2801 2602 2503	SULFIDES	SA:	APLE 700	% C0	RE RECOVI	ERY1C	A S	SAYS	
LATIN ELEV HOLE FROM 0 1 1 2 2 3 3 4 4 5	TUDE = VATION START FCOT TO I I I I I I I I I I I I I	2+50 N FED: April FAGE W:DTH RCVRY 1 m - 1 m 1 m 1 m 1 m	DEPARTURE:			NUWBER 2801 2602 2303 2504	SULFIDES	S A !		% C0	RE RECOVI	ERY1C.	A S	SAYS	
LATIN ELEV HOLE FROM 0 1 1 2 2 3 3 4 4 5 5 6	TUDE = VATION START FCOT TO III 2 ID 3 III 4 III 5 III 5 III 5 III	2+50 N FED: April FAGE W:DTH RCVRY 1 m - 1 m 1 m 1 m 1 m 1 m 1 m	DEPARTURE:			NUNDER 2801 2802 2803 2804 2805-	SULFIDES	SA:		% C0 L066	RE RECOVI	ERY:C.	A S	SAYS	
LATIN ELEV HOLE FROM 0 1 1 2 2 3 3 4 4 5 5 6 7	TUDE = /ATION START FCOT 10 10 10 20 30 40 50 50 50 50 70 70 10 10 10 10 10 10 10 10 10 1	2+50 N ED: April AGE W:DTH RCVRY 1 m - 1 m 1 m 1 m 1 m 1 m 1 m 1 m	DEPARTURE: 1+34 E AZIMUTH: 14, 1977 HOLE COMPLETED: April 15, 1977 DESCRIPTION DESCRIPTION Organic material - peat and muck Sandy, gravelly buff till Sandy, gravelly buff till Sandy, gravelly buff till	r 5		NUNDER 2801 2802 2803 2804 2805- 2807-	SULFIDES	SA!			RE RECOVI		A S	SAYS	
LATIN ELEV HOLE FROM 0 1 1 2 2 3 3 4 4 5 5 6 6 7 7 8	TUDE = /ATION START FCOT 70 1 m 2 m 3 m 5 m 5 m 5 m 5 m 5 m 5 m 5 m	2+50 N FED: April FAGE WIDTH RCVRY 1 m - 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m	DEPARTURE: 1+84 E AZIMUTH:	rs		NUWBER 2801 2802 2803 2805- 2805- 2807- 2809-	succioes succioes succioes s s s s s s s s s s s s s s s s s s	SA:			RE RECOVI	ERY1C.	A S	SAYS	
LATIT ELEV HOLE FROM 0 11 1 2 2 3 3 4 4 5 5 4 6 7 7 8 8 5	TUDE = /ATION START FCOT 10 10 20 30 40 50 50 50 50 50 50 50 50 50 5	2+50 N FED: April AGE WIDTH RCVRY 1 m - 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m	DEPARTURE: 1+84 E AZIMUTH: 14, 1977 HOLE COMPLETED: April 15, 1977 DESCRIPTION Organic material - peat and muck Sandy, gravelly buff till Sandy, gravelly buff till, large limestone boulder	rs boulders y clay wi		2801 2801 2802 2803 2805- 2805- 2807- 2809- 2811	sulfides	SA:		% CO	RE RECOVI	ERY1C	A S	SAYS	
LATIN ELEV HOLE FROM 0 1 1 2 2 3 3 4 4 5 5 4 6 7 7 5 8 5	TUDE = /ATION START FCOT 10 10 10 10 10 10 10 10 10 10	2+50 N ED: April AGE W:DTH RCVRY 1 m - 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m	DEPARTURE: 1+34 E AZIMUTH: 14, 1977 HOLE COMPLETED: April 15, 1977 DESCRIPTION Organic material - peat and muck Sandy, gravelly buff till Sandy, gravelly buff till, large limestone boulder Sandy, gravelly buff till buff till, large limestone boulder Sandy, gravelly buff till buff	rs boulders y clay wi		NUNDER 2801 2802 2803 2805 2805 2807 2807 2809 2811 2812	SULFIDES				RE RECOVI		A S	SAYS	
LATIN ELEV HOLE FROM 0 1 1 2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 1	TUDE = VATION START FCOT TO C TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO S TO TO S TO S TO S TO S TO S TO S TO S TO S TO TO S TO TO TO TO S TO S TO S TO TO TO TO TO TO TO TO TO TO	2+50 N FED: April FAGE WIDTH RCVRY 1 m - 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m	DEPARTURE: 1+84 E AZIMUTH: 14, 1977 HOLE COMPLETED: April 15, 1977 DESCRIPTION DESCRIPTION Organic material - peat and muck Sandy, gravelly buff till Sandy, gravelly buff till Sandy, gravelly buff till Sandy, gravelly buff till Sandy, gravelly buff till Sandy, gravelly buff till Sandy, gravelly buff till Sandy, gravelly buff till, large limestone boulder Sandy, gravelly buff till, large limestone boulder Sandy, gravelly buff till, large limestone boulder Sandy, gravelly buff till, large limestone boulder Sandy, gravelly buff till, large limestone boulder Sandy, gravelly buff till, large limestone boulder Sandy, gravelly buff till, large limestone boulder Sandy, gravelly buff till, large limestone boulder Sandy, gravelly buff till, large limestone boulder Sandy, gravelly buff till, large limestone boulder Sandy, gravelly buff till, large limestone boulder Sandy, gravelly buff till, large limestone boulder Sandy, gravelly buff till, large limestone boulder Sandy, gravelly buff till, large limestone boulder Sandy, gravelly buff till, large limestone boulder Sandy, gravelly buff till, large limestone boulder Sandy, gravelly buff till passing down to bluish grey powder Sandy buff till	rs boulders y clay wi	ch	NUWBER 2801 2602 2803 2805- 2805- 2807- 2809- 2811 2812 2813	succides succides succides same same same same same same same sa	SA:			RE RECOVI	ERY1C.	A S	SAYS	
LATIN ELEV HOLE FROM 0 1 1 2 2 3 3 4 4 5 5 6 7 5 8 5 8 5 9	TUDE = VATION START FCOT TO E C TO S E 7 m S E 7 m S E 9 m 10 m	2+50 N FED: April FAGE WIDTH RCVRY 1 m - 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m	DEPARTURE: 1+84 E AZIMUTH: 14, 1977 HOLE COMPLETED: April 15, 1977 DESCRIPTION Organic material - peat and muck Sandy, gravelly buff till Sandy, gravelly buff till, large limestone boulder Sandy, gravelly buff till, larg	rs boulders y clay wi	th	VUWBER 2801 2802 2803 2804 2805- 2809- 2811 2812 2812 2813	5UL FIDES	SA:			RE RECOVI		A S	SAYS	
LATIT ELEV HOLE FROM 0 1 1 2 2 3 3 4 4 5 5 6 7 8 8 9 9	TUDE : VATION START FCOT TO C C C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S C S S S S S S S S S S S S S	2+50 N FED: April FAGE W:DTH RCVRY 1 m - 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m	DEPARTURE: 1+84 E AZIMUTH: 14, 1977 HOLE COMPLETED: April 15, 1977 DESCRIPTION DESCRIPTION Organic material - peat and muck Sandy, gravelly buff till Sandy, gravelly buff till Sandy, gravelly buff till Sandy, gravelly buff till Sandy, gravelly buff till Sandy, gravelly buff till Sandy, gravelly buff till Sandy, gravelly buff till, large limestone boulder Sandy, gravelly buff till, large limestone boulder Sandy, gravelly buff till, large limestone boulder Sandy, gravelly buff till, large limestone and center Sandy, gravelly buff till, large limestone boulder Sandy, gravelly buff till, large limestone and center Sandy, gravelly buff till, large limestone and center Sandy are powder Course angular rock chips with minor blue clay Course angular rock chips with minor blue clay	rs boulders y clay wi	th	NUNDER 2801 2602 2803 2804 2805- 2807- 2809- 2811 2812 2813 2814-	5ULFIDES 6 8 10				RE RECOVI		A S	SAYS	
LATIT ELEV HOLE FROM 0 1 1 2 2 3 3 4 4 5 5 6 6 7 7 8 8 5 8 5 9 1 10 11	TUDE = VATION START FCOT TO E C C TO S E 7 m S E 7 m S E 9 m 10 m 11 E 12 m	2+50 N FED: April FAGE WIDTH RCVRY 1 m - 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m	DEPARTURE: 1+84 E AZIMUTH: 14, 1977 HOLE COMPLETED: April 15, 1977 DESCRIPTION Organic material - peat and muck Sandy, gravelly buff till Sandy, gravelly buff till, large limestone boulder Sandy, gravelly buff till, large limestone and clay balls. Bluish powdery clay with angular greenstone and chips. Course angular rock chips with minor blue clay Blue grey chloritic clay with rock chips passing	rs boulders y clay wi hert rock	th	NUWBER 2801 2602 2303 2504 2805- 2807- 2809- 2811 2812 2813 2814- 2814- 2816-	5. 5. 5. 5. 5. 7. 7.	SA:					A S	SAYS	
LATIT ELEV HOLE FROM 0 1 1 2 2 3 3 4 4 5 5 6 7 5 8 5 8 5 8 5 9 1 10 11	TUDE = VATION START FCOT TO E C TO S E C TO S E C TO S E C TO S E C TO S TO S TO S TO S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART S TART TART S TART TART S TART S TART T	2+50 N FED: April FAGE WIDTH RCVRY 1 m - 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m	DEPARTURE: 1+84 E AZIMUTH:	rs boulders y clay wi hert rock	th	xUwBER 2801 2602 2503 2804 2805- 2807- 2809- 2811 2812 2813 2814- 2814- 2816-	5ULFIDES 4 5 5 10 10 10 10 10 10 10 10 10 10	S A 1					A S	SAYS	
LATIT ELEV HOLE FROM 0 1 1 2 2 3 3 4 4 5 5 6 7 8 8 5 8 5 8 5 8 5 9 1 10 11	TUDE : VATION START FCOT TO C C C TO C C C TO C C C C C C C C C C C C C	2+50 N FED: April FAGE WIDTH RCVRY 1 m - 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m	DEPARTURE:	rs boulders y clay wi hert rock down into velly with	th	NUNDER 2801 2602 2803 2804 2805- 2807- 2809- 2811 2812 2813 2814- 2816- 2816- 2818	5ULFIDES 6 8 10 				RE RECOVI		A S	SAYS	

FOOTAGE					SAMPLE							ASSAYS					
	+00	I MOL		DESCRIPTION		%			TAGE		r		<u></u>	<u> </u>	<u> </u>		
		TIOTH	RUYRT		2020	SULFIDES	FROM	-TO	WIDTH	ROVRY							
	<u>14 E</u>	<u>l e</u>		Buff orange sand with angular peoples 2.5 cm with rock chips	2020	┼──								 	┢╌		
	·····	¦ 		and rock flour. Small piece of wood recovered (may have	2821	1							¦				
_			ļ	cropped from above).	• ···										<u> </u>		
	15 m -	Im	L	Rusty sandy gravel becoming less rusty with depth. Most rock	2822	ļ									┝		
	- <u>.</u>			fragments over 2.5 cm.	2823												
	16 m	1 =		Rusty sandy gravel. Little sand	2824-	25									L		
	17_m	1 m		Rusty sandy gravel. Much sand rock fragments mostly larger than	2826	<u> </u>											
_]		[2.5 cm.													
	18 1	1 -		Rusty sandy gravel with rounded and angular fragments up to	2827										<u> </u> _		
				5 cm. Last 40 cm material gets finer and wet.	2828										Ĺ		
	19 m	1 =		Rusty sendy gravel.	2829-	·\$ο									_		
	19.5	0.5		Rusty gravel with increasing course angular rock calps.	2831										L		
					Ĺ	Í											
Π				Could not make any more progress, rock too hard.											L		
•																	
			1	Fole stopped.													
															Γ		
			1	· · · · · · · · · · · · · · · · · · ·											Γ		
┦		 	1		1										Γ		
		<u> </u>	1			1									Γ		
-	·	+	1		<u> </u>	1									L		
-			†									1			F		
-	 -				<u> </u>										┢		
\neg] 		.					·	┢		
_		<u></u>	 		↓	+					·				₽		

• •

· - •• -

.

. *

· · _..

		- HOLE	RECORD				0 - 84 3		279	SHEET No.1 OF: 1
DRILLED BY	Becker Drills Limi PDH 77-2		<u>14 m</u>	FOOTAGE	012	AZINGTH	FOOTAGE	DIP	AZINOTH	PROPERTY:Atlin-McKee
	McKee Creek	_ DIP =	Vertical 1+50 E						┽──╶┥	ACCOUNT No.: 325-00
ELEVATION :	April 16 1977	_ AZIMUT8 :	April 17, 1977							% CORE RECOVERY:
HOLE STARTED						, <u></u>				ACCAYC

<u> </u>	FOOT	TAGE					SAM	PLE_				ASSAYS				
FROM	τo	WIDTH	RÉVRY	DESCRIPTION	NUMBER	SULFIZES	FROM	700 T0	WOTH	BOV TY				<u> </u>		
0	3 =	3 🖬		Peat and organic muck.						l						
3	4 m	1 m	L	Buff to grey gravelly till.	2832	ļ		.	Ĺ							
4	5 =	1 1		Buff to grey with linestone and greenish chert pebbles.	2833				 					_		
5	6 =	1 ::		Grey gravelly till.	2834											
6	7 =	1 =		Grey gravelly till.	2835	ļ			<u> </u>							
?	3 -	1 1		Light grey to white massive powdery talc.	2836	¦								_ <u>_</u>		
8	9 =	1 =		Light grey massive powdery tale with sericite chlorite pebbles.	2837-	38							<u> </u>			
9	10 m	1 =	1	White powdery talc.	2839				ļ	<u> </u>	·····			_ 		
10	11 =	1 =		White powdery talc:	2840-	41			ļ	↓ ↓						
11	12 =	1 m		White powdery talc.	2842	ļ	{		Į	╞╡		<u> </u>		_}		
12	i3 m	1 1	1	White powdery talc.	2843-	44			↓							
13	14 m	1 11		White powdery tale with increasing chlorite and sarpentine rock	2845		ļ		<u> </u>	┝			•			
	ļ			fragments.	2846	<u> </u>	+		<u>∔</u> . —			<u> </u>				
				Drill rods stuck in bedrock. Rods blasted free. Hole stopped.		+	+- ·	· · · · ·	 ↓							
┝					 					+						

			· · ·										-	
			DRILL HOLE RECORD		9/09 TP	0 - 949	1 765	<u>, , , , , , , , , , , , , , , , , , , </u>	SHE	ET No.I O	7: <u>1</u>			
DRI	LLED B	r: <u> Becke</u>	r Drills Limited	ACIO I		learner	010		, HGF1	E NUMBER	·	<u># 11-3</u>		
HOL	E NUME	ER: PDH 7	7-3 LENGTH : 16.25 m	1465 UN	Y 14219015	FOULAGE		A	PRO	PERTY:		1111-110	<u>ee</u>	
LOC	ATION	McKee	Creek DIP: Vertical	<u> </u>					ACCO	DUNT No.1.	32	5-09 <u></u>		—
LAT	TITUDE :	2+35	N DEPARTURE 1+64 E			<u> </u>			COR	£ \$!ZE;		5/8. 01)	_
ELE	EVATION	l :	AZIMUTH :			<u> </u>	· · ·		%0	ORE RECOV	ER¥1			
HOL	E START	ED: April	17, 1977 HOLE COMPLETED: April 17, 1977			1		ن ــــــــــــــــــــــــــــــــــــ	LOG	GED BY:.	<u>-</u> C.	B. Gunz		
							\$ 7.14	21 5	<u> </u>	4		4554	YS	
	FOOT	AGE	DESCRIPTION		E	%		7001	A0E .		<u>-</u>		<u> </u>	1
FROM	10	WIDTH REVRY		<u> </u>		SULFIDES	FROM	, 7 ⊃	wist-			<u>i</u>	_ <u>+</u>	Ť
0	2 =	2 0	Peat and organic muck.							┨────┟╼				-
2	3 = -		Grey buti sancy gravelly till.		2047	-		—		<u> </u>				
3	4 🖻		Grey buit sindy gravelly till.		2040					<u>} </u>				
4	5 -	1 12	Coarse boulder till.		2849-	10				<u></u>				-
5	6 =	1 2	Coarse boulder limestone and greenstone boulders.	<u></u>	2851-	<u>,</u>				<u>}</u> }	-			
6	7 33		Coarse boulder with gravel.		2853-	1.				 -				-
	8 m	1 =	Gravel till with cobbles up to 15 cm.		2835-	36								\dashv
7	9 🖽	1 =	Sandy gravel till.		2857-	38	<u> </u>			<u> </u>		{		\dashv
7 8	1 10 -	1 m	Shattered greenish buff greenstone fragments passing in	to mass	ive2859					┼──╶┤─		+		
7 8 9	10 5	•	tale rock at 10 m.				 _			┢╺╍┝				-
7 8 9	10 5				1		ł			└─── ├─				4
7 8 9 10	10 ±	1 =	White talc.		2860-	<u>61</u>	<u> </u>	1	(ł	
7 8 9 10 11	10 <u>1</u> 11 <u>m</u> 12 m	1 m 1 m	White talc. White talc with soapstone pebbles and chloritc nodules.		2860- 2862-	61						-+		. i
7 8 9 10 11 12	10 m 11 m 12 m 13 m	1 m 1 m 1 m	White talc. White talc with soapstone pebbles and chloritc nodules. As above with larger soapstone sepentine rock fragments	· · · · · · · · · · · · · · · · · · ·	2860- 2862- 2864-	61 63 65	·					_		_
7 8 9 10 11 12 13	10 m 11 m 12 m 13 m 14 m		White talc. White talc with soapstone pebbles and chloritc nodules. As above with larger soapstone sepentine rock fragments As above.	· · · · · · · · · · · · · · · · · · ·	2860- 2862- 2864- 2866-	61 63 65 67							 	
7 8 9 10 11 12 13 14	10 m 11 m 12 m 13 m 14 m 15 m	1 m 1 m 1 m 1 m 1 m	White talc. White talc with soapstone pebbles and chloritc nodules. As above with larger soapstone sepentine rock fragments As above. Ultrabasic rock chips with talc.	·	2860- 2862- 2864- 2866- 2868-	61 63 65 67 69								

		"··-		· . 				
· •				×		•		
				· ·	-		•	
	-		~				~	-
	•	• •	a		·	.	·	

DRILL HOLS LOCS	DRILL HOLE RECORD LED BY: Becker Drills Limited E NUMBER: PDH 77-4 LENGTH: 4.2 m ATION: McKee Creek DIP: 2+26 N DEPARTURE: 2+07E VATION: AZIMUTH:			A C FOOTAGE	1D 8/	OR TR	0 - PAR	I TES DIP	T S A2:MUTH	SHEET NO.1 OF HOLE NUMBER PROPERTY: ACCOUNT No:. CORE SIZE:	07: 1 ER: PDH 77-4 Atlin-McKee 325-00 : 6 5/8" 0D : 6 5/8" 0D			
ELEN HOLE	ATION	ΓΕD :	April_	AZIMUTH: 17, 1977 HOLE COMPLETED: April 17, 1977			·				LOGGED BY:C.B. Gunn			
	FOOT	TAGE							SAM	PLE	ASSAYS			
204	70	W:078	RCYRY	DESCRIPTION			NUNBER	% SULFIDES	FROM	7007	MOTH ROVEY			
		, _		Organic material.			1							<u> </u>
-+	<u>, </u>	· ····		Sandy gravelly till.			2873							
<u> </u>	2			Sandy erayelly till.			2874							
<u> </u>	<u>, , , , , , , , , , , , , , , , , , , </u>			Sandy gravelly till with chert fragments from large	boulde:	r	2875							
	4	L_		or bedrock.			2876							
	4.2 m	0.2	 	Coarse angular fresh chert fragments.			2877	· ·						
		<u> </u>) 	Too hard to drill - bedrock.										
				End of hole. Moved forward 3 m for PDH #5.				Į.			· · · · · · · · · · · · · · · · · · ·			
		<u> </u>	1					 -						_
					· · · ·									
		ļ							↓		$\left \cdot \cdot \cdot \cdot \cdot \right = \left \cdot $			
								+	+ ·	+···-··	╪╴╶╌┃┄╼╍╍╪╼ ╡╶╍╍┽╵╾╌╌┶╪╼			1
		·	<u> </u>				<u> </u>		+					
		-								· · · · · · · · · · · · · · · · · · ·				

. DRILL HOLE RECORD SHEET NO.1 OF: 1 DRILLED BY Becker Drills Limited ACID &/OR TRO-PARI TESTS HOLE NUMBER : ____ PDL 77-5 FOCTASE DIP AZIMUTH FOCTASE DIP AZIMUTH HOLE NUMBER: _____ PDH 77-5 ____ LENGTH .____ 5.2 m PROPERTY: Atlin-McKee LOCATION McKee Creek DIP Vertical ACCOUNT No.: 325-00 _ DEPARTURE 2+07E 2÷29N CORE SIZE: ____6 5/8"_OD_____ LATITUDE ELEVATION ____AZIMUTH -..... % CORE RECOVERY HOLE STARTED: April 18, 1977 HOLE COMPLETED: April 18, 1977 LOGGED BY: C.B. Gung FOOTAGE SAMPLE ASSAYS DESCRIPTION FOOTAGE NUMBER STILLES PROM FROM τo WIDTH ROVRY TO I WOTH | POVEY 1 = 0 1 = Peat and organic muck. IЕ 2 m 1 🏚 Greenish buff sandy till with chert boulders. 2878 2 = Greenish buff sandy till with chert boulders. 3 🖻 1 📼 2879 3 🛥 4 m | 1 m Angular chert fragments. Boulder or bedrock. 2880 4 = 5 m l m Coarse angular chert fragments and fragments of quartz vein. 2881 2882 4 m 5.2 Coarse angular chert fragments and fragments of quartz vein. 2883 Bedrock. End of hole.

-

				• • • • • • • • • • • • • • • • • • •												
				• •		•					•					
					· · -	-			-					•		-
				- -			· · ·				-			-	•	
						·		·					. • .	<u> </u>		
				•			. <u> </u>									
				DRILL HOLE RECORD		0 (0D TD	0 040		Te	SHEET	No.1 (DF =	1			_
DRIL	LED 8	Y :	Becke	r Drills Limited	ACID	aron in	Sonties		•	HOLE	NUMBER	₹: <u>_</u>		-0 Votar		
HOL		BER :	PDH 7	7-6 LENGTH : 5 m	FOOTAGE	IP ALINUTA	FUUTASE			PROPE	RTY:	···· ·	325-00	ACKEE		—
100	ATION	· • • •	McKee	Creek DIP: Vertical						ACCOU!	NT No.ª	•••	929-90 6 5/8"		· <u> </u>	
LAT	TUDE	• • • •	2+30	N DEPARTURE: 1+95 E			 	'		CORE	SIZE:					
ELĒ	VATION			AZIMUTH :		···			{	% cor	E RECON	VERY <u>-</u> _				
HOL		TED:	April	18, 1977 HOLE COMPLETED: April 18, 1977						LOGGE	D 9Y:	••••	<u>.</u>	<u> </u>	• · · · · · · · · · · · · · · · · · · ·	
	E STAR	,	`•													
,	- 5148							SAM	PLE				A	SSAY	s	
e	F001	TAGE	BOURY	DESCRIPTION		NUMBER	% 511 51755	SAM		AGE WOTH I P			A	SSAY	s I	
FROX	F00 ⁻	TAGE	RCVRY	DESCRIPTION		NUMBER	50LFJDE5	SAM	PLE To I	AGE W2TH 1 P	CVRY .		A	SSAY	s	
FROX O	F00 ⁻ T0 3 m	TAGE KIDIS 3 m	RCVRY	DESCRIPTION Peat and organic muck.		NUMBER	% SULFIDES	SAM From		AGE WIITH I P			A	SSAY	s I	
FROM 0 3 m	F00 ⁻ T0 3 m 4 m	TAGE 1 E	RCVRY	DESCRIPTION Peat and organic muck. Green grey and buff sandy pebbly till. Orena apply till or gravel. Weathered appular up	ock chips a	NUMBER 2884 t 2885	SULFIDES	SAM FROM		AGE WOTH J	RCVRY		A	SSAY	S	
FROX 0 3 m 4 m	FOO ⁻ TO 3 m 4 m 5 m	TAGE 1 m	RCVRY	DESCRIPTION Peat and organic muck. Green grey and buff sandy pebbly till. Orange pebbly till or gravel. Weathered angular weit (S at 5 m fresh greenstone chips and quartz veit	ock chips a	NONBER 2864 t 2885 2886	SULFIDES	SAM From					A	SSAY	\$	
f7:0¥ 0 3 m 4 m	FOO [*] TO 3 m 4 m 5 m	TAGE 1 m 1 m	RCVRY	DESCRIPTION Peat and organic muck. Green grey and buff sandy pebbly till. Orange pebbly till or gravel. Weathered angular weight 4.5. At 5 m fresh greenstone chips and quartz veight	ock chips a a.	NUMBER 2384 t 2885 2886	SULFIDES	S A M					A	SSAY	S	
FROX 0 3 m 4 m	FOO ⁻ TO 3 m 4 m 5 m	TAGE 1 m 1 m	RCVRY	DESCRIPTION Peat and organic muck. Green grey and buff sandy pebbly till. Orange pebbly till or gravel. Weathered angular up 4.5. At 5 m fresh greenstone chips and quartz veis End of hole.	ock chips a a.	NUMBER 2884 2885 2886	502 F13 <u>F5</u>	SAM From					A	SSAY	S	
FF0X 0 3 m 4 m	FOC ⁻ TO 3 m 4 m 5 m	TAGE 100778	RCVRY	DESCRIPTION Peat and organic muck. Green grey and buff sandy pebbly till. Orange pebbly till or gravel. Weathered angular weight 4.5. At 5 m fresh greenstone chips and quartz veight End of hole.	ock chips a a.	NUMBER 2384 t 2585 2886	5 <u>0</u> 5 <u>0</u> 5 <u>0</u> 5 <u>0</u> 5 <u>0</u> 5 <u>0</u> 5 <u>0</u> 5 <u>0</u>	SAM From						SSAY	5	
FROX 0 3 m 4 m	FOC ⁴ TC 3 m 4 m 5 m	TAGE 1075 1 m 1 m	RCVRY	DESCRIPTION Peat and organic muck. Green grey and buff sandy pebbly till. Orange pebbly till or gravel. Weathered angular we 4.5. At 5 m fresh greenstone chips and quartz vels End of hole.	ock chips a a.	NUMBER 2864 E 2885 2886	50LF1255	SAM FROM						SSAY	S	
FF0¥ 0 3 m 4 m	FOO ⁻ TO 3 m 4 m 5 m	TAGE 1078 1 m 1 m	RCVRY	DESCRIPTION Peat and organic muck. Green grey and buff sandy pebbly till. Orange pebbly till or gravel. Weathered angular weit 4.5. At 5 m fresh greenstone chips and quartz veit End of hole.	ock chips a a.	NUMBER 2384 t 2885 2886	SULFIDES	SAM FROM					A	SSAY	S	
FROX 0 3 m 4 m	FOC ⁻ TC 3 m 4 m 5 m	TAGE 10178 3 m 1 m 1 m	RCVRY	DESCRIPTION Peat and organic muck. Green grey and buff sandy pebbly till. Orange pebbly till or gravel. Weathered angular us 4.5. At 5 m fresh greenstone chips and quartz vein End of hole.	ock chips a a.	NUMBER 2384 t 2885 2886		SAM FROM						SSAY	S	
FF0¥ 0 3 m 4 m	FOC ⁻ TC 3 m 4 m 5 m	TAGE 1078 1 m 1 m		DESCRIPTION Peat and organic muck. Green grey and buff sandy pebbly till. Orange pebbly till or gravel. Weathered angular up 4.5. At 5 m fresh greenstone chips and quartz veis End of hole.	ock chips a a.	NUMBER 2884 t 2885 2886		S A M						SSAY	S	
FROX 0 3 m 4 m	FOO [*] TO 3 m 4 m 5 m	TAGE *:278 3 m 1 m 1 m		DESCRIPTION Peat and organic muck. Green grey and buff sandy pebbly till. Orange pebbly till or gravel. Weathered angular weit 4.5. At 5 m fresh greenstone chips and quartz veit End of hole.	ock chips a a.	NUMBER 2384 t 2885 2886		S A M						SSAY	S	
		TAGE 1075 1 m		DESCRIPTION Peat and organic muck. Green grey and buff sandy pebbly till. Orange pebbly till or gravel. Weathered angular weither 4.5. At 5 m fresh greenstone chips and quartz veither End of hole.	ock chips a a.	NUMBER 2864 E 2885 2886		SAM FROM						SSAY	S	
FF:0¥ 0 3 m 4 m	FOC ⁻ TC 3 m 4 m 5 m	TAGE 1078 100 100		DESCRIPTION Peat and organic muck. Green grey and buff sandy pebbly till. Orange pebbly till or gravel. Weathered angular vois 4.5. At 5 m fresh greenstone chips and quartz veis End of hole.	ock chips a a.	NUMBER 2884 2885 2886		S A M						SSAY	S	
FROX 0 3 m 4 m		TAGE *:278 3 m 1 m 1 m 		DESCRIPTION Peat and organic muck. Green grey and buff sandy pebbly till. Orange pebbly till or gravel. Weathered angular weit 4.5. At 5 m fresh greenstone chips and quartz veit End of hole.	ock chips a a.	NUMBER 2384 t 2885 2886		SAM						SSAY	S	
		TAGE 1078 1 m		DESCRIPTION Peat and organic muck. Green grey and buff sandy pebbly till. Orange pebbly till or gravel. Weathered angular to 4.5. At 5 m fresh greenstone chips and quartz veit End of hole.	ock chips a	NUMBER 2864 t 2885 2886		S A M						SSAY	S	
		TAGE *1078 3 m 1 m 1 m 		DESCRIPTION Peat and organic muck. Green grey and buff sandy pebbly till. Orange pebbly till or gravel. Weathered angular to 4.5. At 5 m fresh greenstone chips and quartz veit End of hole.	ock chips a a.	NUMBER 2384 2885 2886		S A M						SSAY	S	

•

				DRILL HOLE RECORD	ACIE	0 8/0	R TRC) - PAR	TES	TS	SHEET No.1 OF	1 PDH 77-	7		
DRIL	LED BY	/ : . <u></u>	ecker		COTAGE	C1P 1	ZINDTR	FOCTASE	C:P	AZIMUTH	AGAGEDTY.	Atlin-M	cKee		
HOL	E NUMB	ER :)년 77- 	LENGTR		+ 	f				PRVPERIT*****	325~00		-	
LOC	ATION	<u> X</u>	chee C	reek DIP: Vertical						·	ACCOUNT NO.1	6 5/8"	00	···· · ·	
LAT	ITUDE :	2	+41.5	DEPARTURE : 1+82.5 E		- +					CORE 5125:				
ÉLE	VATION	<u> </u>		AZIMUTH /			——†				C-B. Gunn				
HOL	E START	ED:A	pril 1	8, 1977 HOLE COMPLETED: April 21, 1977	}	. !	l			<u> </u>	LOGGED BY: CLD. CLLL				
			·	· · · · · · · · · · · · · · · · · · ·					SAM	FLE		A	SSAY	5	
	F001	AGE		DESCRIPTION		l.	EWAER 1	%		F001	AGE			1	
10083	70	WIETH .	RCVRY					SULFIGES	PROM			<u>(</u>	<u> </u>	İ	
<u> </u>	2 🗈	2 🖻		Peat and organic muck.			2897			<u>├</u> - ┤					
2 🗉	3 =	Ιm		Grey-buff gravelly till.			1000							[-
3 =	4 e	1 =		Grey-buff gravelly till with boulders.			2000								
3 =	4 🖻	1 =		Grey-buff gravelly till with large boulders.			2987		<u>}</u>					<u>+</u>	
5 m	6 m	Ιъ		Grey-buff gravelly till.		{	2390		.				<u> </u>		
6 🖻	7 =	1 12		Grey-buff gravelly till.		-	<u>2891-</u> \$	2		<u> </u>			ł		
7 m.	8 m	1		Till with angular rock chips of greenstone.			2893-	4		 			┢╾┈╺╺╄	<u> </u>	
8 m	9 m	1 =		Angular grey rock chips, minor sand or rock flour.			2895						┟───┤		
9 -	10 m	1 =		Angular grey greenstone rock chips, various sizes.			<u>2897</u>	L	ļ	ļ!		·	∤	/	
┟╧╼═┈	10		· · ·				2898		_	└──			 		
10 -	11 7		1	As above, with parrow white quartz veins and some fra	gments		2899		<u> </u>	_	· ·		ļ.,		
	<u> </u>	<u> • − −</u>	1	showing slickenside faces.			2900			<u> </u>			╞╴╶┥		
11 -	12 m	1	<u> </u>	Coarse angular rock chips. Passing down at 11.5 to w	hite to	alc.	2901-	02			_				
	12 =	<u> </u>		thits tale passing to rusty tale at 12.6			2903-	ç4	T						
12 =	1 1 2 2	$\frac{1}{1}$		- milet for passing to rearly the second sec					Ţ ·	1					
<u> </u>		<u> </u>						ļ	†· · -	+		- T			
		+		EAD OF BOLL.				† 	t		1 -1 1				
	┨		+					<u>†</u> ·───		• • • • • • • •	i		}		
L	ł	Í	ļ .		+			┝──╸	┉	+	┟╸╶┈╶ ┥╌╸╺╸╞╴╤╸		1		<u> </u>

DRILL HOLE RECORD	ACID &/OR TRO-PARI TESTS HOLE NUMBER: PDE 77-8
DRILLED BY: DECRET DITAIS DALIGN HOLE NUMBER: PDH 77-8 LOCATION: McXee Creek DIP: Vertical LATITUDE: 5+01 N DEPARTURE: 2+18 E ELEVATION: AZIMUTH: HOLE STARTED: ADTIL 21, 1977	FOOTAGE DIP AZINUTH FOOTAGE DIP AZINUTH PROPERTY: Atlia-MiKee

	F001	AGE					ŞAM	PLE			A	SSAY	<u> </u>	
	T0	אזמוש	ECVRY	DESCRIPTION	NUMBER	SULFICES	PROM	F007/	NGE WOTH MON	'AY				
		1 -		Gravel till	2905						<u> </u>			
	2 -	1		Gravel till.	2906									{
2 3	2.5	0.5		Coarse angular buff coloured rock chips with quartz vein.	2907									
						<u> </u>								
				Bedrock. END OF HOLE.		<u> </u>					ļ — —	 	<u> </u>	
		<u> </u>	<u> </u>			<u> </u>			<u> </u>		┨────┤			
-	 	ļ 				1				<u> </u>				
	<u> </u>	<u> </u>	<u> </u>	·	_ <u>_</u>	+				·	<u> </u>		;	
	ļ		1			+					+			
		↓	<u> </u>			1	<u> </u>							
<u> </u>	!	<u> </u>									<u> </u>			
							† - ——							
 	+	<u> </u>	+				T ·							
<u>├</u>	<u> </u>	1												
	<u> </u>	+	+								 			
-	┥ <i></i> -	† —	†			_	ļ				<u> </u>		<u></u>	<u> </u>
	<u> </u>		<u> </u>				┨────	<u></u> }	-+		÷			<u> </u>

				•											
						٠					+				
				· · · · · ·	· -				-						
				·										_	
-	-	<u> </u>								<u> </u>					
		<u> </u>										. 1		_	
			. –	DRILL HOLE RECORD	CID 8/	OR TR	D - PAR	I TES	rs	SHEET	NUMBER	26 ·2	DH 77-	9	
RILL	.EQ 91	<u>ا</u> ۲	Becker	-9 FCOTAGE	E DIP	АZIMUTH	FOOTAGE	D:5	AZINGLE	PROPI	ERTY:	A	tlin-M	(cRee_	
OLE	кима	ER:	Yokaa	Creek DUD: Vertical						ACCOL	INT No.	3	325-00	· • - -	
A 30.	TION	••••	6+20 N	DERARTURE 2+54 E						CORE	SIZE:	6	5/8"		
A71	TUDE	· · · · <u> </u>		A7140TH :				_		% co:	RE RECON	VERY:			
						1 .									
1254	A 110A		April	21, 1977 HOLE COMPLETED: April 21, 1977				<u> </u>	L]	LOGG	ED BY:	···	2.3. Ģu	iou -	
OLE	START	red:	April	21, 1977 HOLE COMPLETED: April 21, 1977		r		SAM	P1 F	L066	ED BY:	(2.3. Gu	SSAYS	 S
(OLE	START FOOT	TED:	April	21, 1977 HOLE COMPLETED: April 21, 1977		NUVSER		SAM	PLE	L066	ED BY:	···	2.3. GU	SSAYS	s I
	START FOOT	TED:	April RCVRY	21, 1977 HOLE COMPLETED: April 21, 1977		NUVSER 2903	% BULFIDES	SAM	PLE	L066	ED BY:		A :	SSAYS	5
	STARI FOOT		April RCVRY	21, 1977 HOLE COMPLETED: April 21, 1977 DESCRIPTION Coarse sand gravelly till.		NUVBER 2908 2909	SULFIDES	SAM	PLE PC27	L066	ED BY:		с. в. Gu	SSAYS	S
	FOOT To 1 = 2 m		April RCVRY	21, 1977 HOLE COMPLETED: April 21, 1977 DESCRIPTION Coarse send gravelly till. Coarse send gravelly till. Coarse send gravelly till.		NUVEER 2908 2909 2910	SULFIDES	SAM	PLE PC07	L066	ED BY:		A S	SSAYS	S
	START FOOT TO 1 = 2 m 4 m		April RCVRY	21, 1977 HOLE COMPLETED: April 21, 1977 DESCRIPTION Coarse sand gravelly till. Coarse till with angular rock fragments Till changing to till mixed with grey talcy powder 3 4.5 m		NUWBER 2908 2909 2910 2911	SULFIDES	SAM	PLE 70 70	L066	ED BY:		А (SSAYS	S
	START FOOT TO 1 = 2 = 4 = 4 = 6 =	ED: TAGE WIDTH 1 E 2 E 1 E 1 E	April RCVRY	21, 1977 HOLE COMPLETED: April 21, 1977 DESCRIPTION Coarse send gravelly till. Coarse send gravelly till. Coarse till with angular rock fragments Till changing to till mixed with grey talcy powder 3 4.5 m Talc with scenatione and serpentinite rock fragments.		NUVEER 2908 2909 2910 2911 2912	SULFIDES	SAM PARM	PLE F007 70	L066	ED BY:			SSAYS	5
	STARI FOOT To 1 = 2 = 4 = 4 = 6 =	red: rage width 1 = 1 = 2 = 1 = 1 = 1 =	April RCVRY	21, 1977 HOLE COMPLETED: April 21, 1977 DESCRIPTION Coarse sand gravelly till. Coarse sand gravelly till. Coarse till with angular rock fragments Till changing to till mixed with grey talcy powder 3 4.5 m Talc with soapstone and serpentinite rock fragments.		NUVBER 2908 2909 2910 2911 2912 2913	SULFIDES	SAM Pacm	PLE reor	L066			A S		5
	FOOTTO1 = 2 = 4 = 4 = 6 = 100000000000000000000000000000000	FED:	April RCVRY	21, 1977 HOLE COMPLETED: April 21, 1977 DESCRIPTION Coarse sand gravelly till. Coarse sand gravelly till. Coarse till with angular rock fragments Till changing to till mixed with grey talcy powder 3 4.5 m Talc with soapstone and serpentinite rock fragments. END OF HOLE.		NUVEER 2908 2909 2910 2911 2912 2913	SULFIDES	SAM	PLE FCOT TO 1	L066	ED BY:		A :	SSAYS	S
	STARI FOOT TO 1 = 2 m 4 m 4 m 6 m	rED: rAGE width 1 E 1 E 2 E 1 E 1 E 1 E	April RCVRY	21, 1977 HOLE COMPLETED: April 21, 1977 DESCRIPTION Coarse sand gravelly till. Coarse sand gravelly till. Coarse till with angular rock fragments Till changing to till mixed with grey talcy powder 3 4.5 m Talc with soapstone and serpentinite rock fragments. END OF HOLE.		NUVEER 2908 2909 2910 2911 2912 2913	SULFIDES	SAM PAEM	PLE FC37	L066				SSAYS	S
	STARI FOOT 1 = 2 = 4 = 6 = 6 =	FED: TAGE WIDTH 1 E 1 E 2 E 1 E 1 E 1 E	April RCVRY	21, 1977 HOLE COMPLETED: April 21, 1977 DESCRIPTION Coarse sand gravelly till. Coarse sand gravelly till. Coarse till with angular rock fragments Till changing to till mixed with grey talcy powder 3 4.5 : Talc with soarstone and serpentinite rock fragments. END OF HOLE.		NUVEER 2906 2909 2910 2911 2912 2913		SAM PAEM	PLE FCOT TO TO TO TO TO TO TO TO TO	L066	ED BY:			SSAYS	5
	START FOOT TO 1 = 2 m 4 m 4 m 6 m	TAGE WIDTH 1 E 2 E 1 E 1 E	April RCVRY	21, 1977 HOLE COMPLETED: April 21, 1977 DESCRIPTION Coarse send gravelly till. Coarse sand gravelly till. Coarse till with angular rock fragments Till changing to till mixed with grey talcy powder 3 4.5 m Talc with sompstone and serpentinite rock fragments. END OF HOLE.		NUVEER 2908 2909 2910 2911 2912 2913		S A M		L066				SSAYS	S
	STARI FOOT TO 1 = 2 m 4 m 6 m	red: rage width 1 = 1 = 2 = 1 = 1 = 1 =	April RCVRY	21, 1977 HOLE COMPLETED: April 21, 1977 DESCRIPTION Coarse sand gravelly till. Coarse sand gravelly till. Coarse till with angular rock fragments Till changing to till mixed with grey talcy powder 3 4.5 m Talc with soapstone and serpentinite rock fragments. END OF HOLE.		NUVEER 2908 2909 2910 2911 2912 2913	SULFIDES		PLE FCD7 T0 1 1 1 1 1 1 1 1 1 1 1 1 1	L066				SSAYS	S
	STARI FOOT 1 = 2 = 4 = 6 = 6 =	FED: FAGE WIDTH 1 E 2 E 1 E 1 E 1 E 1 E 1 E 1 E	April RCVRY	21, 1977 HOLE COMPLETED: April 21, 1977 DESCRIPTION Coarse sand gravelly till. Coarse sand gravelly till. Coarse till with angular rock fragments Till changing to till mixed with grey talcy powder 3 4.5 : Talc with soapstone and serpentinite rock fragments. END OF HOLE.		NUVEER 2908 2909 2910 2911 2912 2913		S A M		L066				SSAYS	5
	STARI FOOT TO 1 = 2 m 4 m 4 m 6 m	FED:	April RCVRY	21, 1977 HOLE COMPLETED: April 21, 1977 DESCRIPTION Coarse send gravelly till. Coarse send gravelly till. Coarse till with angular rock fragments Till changing to till mixed with grey talcy powder 3 4.5 m Talc with soarstone and serpentinite rock fragments. END OF HOLE.		NUVEER 2908 2909 2910 2911 2912 2913	SULFIDES	S A M		L066				SSAYS	S
	STARI FOOT TO 1 = 2 m 4 m 6 m 6 m	FED:	April RCVRY	21, 1977 HOLE COMPLETED: April 21, 1977 DESCRIPTION Coarse sand gravelly till. Coarse sand gravelly till. Coarse till with angular rock fragments Till changing to till mixed with grey talcy powder 3 4.5 m Talc with soarstone and serpentinite rock fragments. END OF HOLE.		NUVEER 2908 2909 2910 2911 2912 2913			PLE FCD7 TO I I I I I I I I I I I I I	L066				SSAYS	S
	STARI FOOT TO 1 = 2 m 4 m 4 m 6 m 	FED: FAGE WIDTH 1 E 2 E 1 E 1 E 1 E 1 E 1 E 1 E 1 E 1	April RCVRY	21, 1977 HOLE COMPLETED: April 21, 1977 DESCRIPTION Coarse sand gravelly till. Coarse sand gravelly till. Coarse till with angular rock fragments Till changing to till mixed with grey talcy powder 3 4.5 : Talc with soapstone and serpentinite rock fragments. END OF HOLE.		NUVEER 2908 2909 2910 2911 2912 2913		SAM		L065					5
	STARI FOOT TO 1 = 2 m 4 m 6 m 6 m	FED:	April RCVRY	21, 1977 HOLE COMPLETED: April 21, 1977 DESCRIPTION Coarse sand gravelly till. Coarse sand gravelly till. Coarse till with angular rock fragments Till changing to till mixed with grey talcy powder 3 4.5 m Talc with soapstone and serpentinite rock fragments. END OF HOLE.		NUVEER 2908 2909 2910 2911 2912 2913		S A M		L066				SSAYS	S
	STARI FOOT TO 1 = 2 m 4 m 6 m 6 m	FED:	April RCVRY	21, 1977 HOLE COMPLETED: April 21, 1977 DESCRIPTION Coarse sand gravelly till. Coarse sand gravelly till. Coarse till with angular rock fragments Till changing to till mixed with grey talcy powder 3 4.5 s Talc with soapstone and serpentinite rock fragments. END OF HOLE.		NUVEER 2908 2909 2910 2911 2912 2913			PLE FCD7 T0 1 1 1 1 1 1 1 1 1 1 1 1 1	L065				SSAYS	S

				· · · · · · · · · · · · · · · · · · ·	٠			_				
						- -					•	•
		-		• • •	 			•	· · · · · · · · · · · · · · · · · · ·		· ·	
				DRILL HOLE RECORD		0 - PA	RI TE	STS	SHEET No.1 OF	- <u>I</u>	7-10	
ORILLE	ED BY	(·	PDH 7	77-10 8 m FOOTAGE DIP	AZINUTE	FOOTASI	D:P	AZIWUTH	NOLE NUMBER	Atlin	-McKee	
HOLE	NUMB	ER:	McKee	Creek Vertical		1	1		ACCOUNT NAME	325-0	0	
LOCA	TION -		1+12	Σ		1			CORE STEEL	6 5/8	" OD	
FLEV	ATION			A2IMUTH :					% CORE RECOVE	RY:	·	
HOLE	START	ED:	April	21, 1977 HOLE COMPLETED: April 21, 1977					LOGGED BY:	C.B.	Guaa	<u></u>
آ	FOOT	AGE		DESCRIPTION		[v .	SA	MPLE	40 E		ISSAYS	
FROM	70	MEDIH	RCVRY		RUNBER	SULFIDE	5 7804	TO	WOTH FEVRY	<u>i</u>		
<u> </u>	1 = 1	1 =		Till with angular rock chips.	2914	<u> </u>				•	<u> </u> <mark></mark> -	
	2 -	1 11		Coarse angular rock chips and gravel. Could be old failings or	7412	-					<u> </u>	
	2 -			Corres appular rack object probably boulder tailings	2916						<u>}</u> }-	
3 -	5 a 4 m	1		de above	2917	<u> </u>	+-				<u> </u>	
	5 -			As above.	2918-	.29	- 					
5	7 -	2 -	· ~	Sandy gravel with coarse angular rock chips, probably till.	2920	Ī —						
7 11	7.5	0.5	<u> </u>	Gravel till with angular rock chirs.	2921		1		·····		<u> </u>	
7.5	8 =	0.5		Grevel till with rock fraggents passing down into coarse	2922	<u>†</u>	1					
				fresh angular rock chips with abundant water.	2923	1	1	- <u> </u>				
						1	1					
	—— {	<u> </u>		To hard to drill.	[
<u> </u>												
				END OF HOLE.	ļ	l						
					ļ	_			·			
					 .	∔		-			↓ ↓	
∮↓			_				1	1			. 1	1
			.		 	÷			╽╶╶┧╼╺╸╀╺	· _ _ .	┦	

, ·

-

•

•

ASSAY CERTIFICATES

i

APPENDIX 4

.

,



CHEMEX LABS LTD.

212 BROOKSBANK AVE. NORTH VANCOUVER, B.C. CANADA V7J 2C1 TELEPHONE: 985-0648 AREA CODE: 604 TELEX: 043-52597

. ANALYTICAL CHEMISTS

GEOCHEMISTS

REGISTERED ASSAYCRS

	CERTIFICATE	OF ANA	LYSIS		CERTIFICATE	NO.	SP 0592
TO:	Dupont of Canada Expl	oration Lt	:d.,		INVOICE NO.		19947
	Vancouver, B. C.				RECEIVED	May 2	2/77
ATTN:	C,B,Gunn				ANALYSED	May 1	11/77
SAMPLE	NO. : Lower Concentration Limit (PPM)	2161	2162	2163	2164	2165	2166
Antimony	/ 50	· bcl	bcl	bcl	bc1	bcl	bcl
Arsenic	. 50	50	500	200	bc1	bcl	bcl
Barium	1 5	500	500	150	150	150	200
Beryllium	5	bc1	bcl	bcl	bcl	bcl	bc1
Bismuth	5	bc1	bcl	bcl	<u>bcl</u>	<u>bç1</u>	<u>bc1</u>
Boron	20	hol	50	bel	hel	hc1	20

Beryllium	5	bc1	bcl	bcl	bcl	bcl	bcl
Bismuth	5	<u>hc1</u>	bcl	bcl	<u>bcl</u>	<u>bç1</u>	<u>bc1</u>
Boron	20	bcl	50	bcl	bcl	bc1	20
Cadmium	20	bcl	bcl	bcl	bcl	bc1	bcl
Calcium	0.05%	7%	10%	10%	10%	7%	10%
Chromium	10	1000	1500	1500	2000	2000	200
Cobalt	10	50	50	20	70	70	10
Copper	1	70	30	50	50	50	30
Gallium	2	20	10	5	10	5	10
Germanium	20	bel	bcl	bcl	bcl	bcl	bcl
tron	0.05%	10%	10%	5%	5%	5%	2%
Lead	5	5	bcl	5	bc1	<u>bcl</u>	5
Magnesium	0.02%	5%	7%	7%	7%	10%	5%
Manganese	5	1000	1000	1000	700	500	500
Molybdenum	10	bcl	bcl	bcl	bcl	bcl	bcl
Nickel	5	150	200	200	1000	1000	50
Niobium	50	bcl	bcl	bcl	bc1	bc1	bcl
Silver	1	bcl	bc1	bcl	bcl	bcl	bcl
Strontium	20	100	300	200	100	50	50
Tantalum	200	bcl	bc1	bel	bcl	bcl	bcl
Tellurium	200	bcl	bc1	bcl	bcl	bcl	bcl
Thorium	100	bc1	bcl	bcl	bcl	bc1	bcl
Tin	10	bcl	bcl	bcl	bc1	20	10
Titanium	5	5000	2000	700	1500	1500	1500
Vanadium	10	300	150	100	200	100	100
Zinc	50	100	100	100	50	50	70
Zirconium	20	30	50	20	70	50	70

SEMI QUANTITATIVE SPECTROGRAPHIC ANALYSES 100 opm

>5000 ppm ≈> 5000 ppm	50 ppm	- 25-100 ppn
5000 ppm * 2500-10000 ppm	20 ppm	= 1050 ppm
2000 ppm ≈ 1000- 4000 ppm	10 ppm	≈ 5 –20 ppm
1000 ppm = 5002000 ppm	5 ppm	- 2-10 ppm

500 ppm = 250-1000 ppm 2 ppm = 1-4 ppm 200 ppm = 100-400 ppm 1 ppm = = 0.5 -2 ppm 100 ppm = 50--200 ppm bel

= below concentration limit

....

Ranges for Iron, Calcium & Magnesium are reported in %



CEATIFIED BY:

		MAY	6	1077
212	BROOKSBANK	AVE.		13/7



CHEMEX LABS LTD.

· ANALYTICAL CHEMISTS

GEOCHEMISTS

• REGISTERED ASSAVERS

CERTIFICATE OF ASSAY

TO: Dupont of Canada Exploration Ltd., 1550 Alberni Rm 102 Vancouver, B.C.

CERTIFICATE NO	Э.	32398
INVOICE NO.		19887
RECEIVED	Мау	2/77
ANALYSED	May	5/77

V7J 201

985-0648

043-52597

604

NORTH VANCOUVER, B.C.

CANADA

TELEX:

TELEPHONE:

AREA CODE:

ATTN: B.B.Gunn

SAMPLE NO 1	%	Oz/Ton	Oz/Ton		
SAWRLE NU, :	Copper	Silver	Gold		
2161 ·	0,01	0.02	0.003		
2162	< 0.01	0.01	0.005		
2163	< 0.01	< 0.01	< 0.003		
2164	< 0.01	< 0.01	< 0.003		
2165	< 0.01	< 0.01	< 0.003		
2166	< 0.01	0.01	< 0.003		
~ 1 00					
· ·				······	
	<u></u>				
				·····	
· · · · · · · · · · · · · · · · · · ·	·····				
				·····	
	,				
	·····				
L	<u></u>	···		/	
CTA, MEMBER			the twatter		
	10		REGISTERED ASSAVER, PROVINCE OF BIRT	ISH COLUMBIA	

DECKER DRILLS LTD.

HEAD OFFICE: P.O. BOX 3487 STN. " CALGARY, ALBERTA T2M 4M2



.

.

felephone: (604) 254-0217

TO:	Du Pont of Canada Exploration Li	Exploration Limited	mited INVOICE No.: 53046		
	Vancouver, B.C.		DATE: May 5, 1977.		
			4 	OUR JOB No.: DO 1	50-51
	:				
OUR P.O), 🖸	Locati	^{on:} Atlin, B.C.	BILLING PERIOD. April 1	2 to April 23/1977.
		HOURLY	46½ hour	s @ \$80.00/hr.	3720.00
		FOOTAGE	327' feet	@ \$ 3.00/ft.	981.00
		M & D		@ \$3500.00/lump sum	. 3500.00
		[c	MAY 9 19		
		C	HARGE 3,25-90-1	<u></u>	
		7	PPROVED (ASAMA	ater	
				D.O.X. DISBURSEMENT	
				TX NO. 02212	
				MAY 18 1977	
				DM 10 1	
				TOTAL	
					This Invoice is Due
			URIGINAL INVO	CE	Upon Receipt 1½% per month charged after 10th of the month following receipt of Invoice Chargeable after:
Subsidio	ary of U	pper Canada Resources Ltd			
	l	1 1		<u> </u>	1 1

DRATION DuPont of Canada Exploration Limited () 02212 Exploration DuPont du Canad mitée La Sociét MONTREAL, QUEBEC, CANADA **ΦΕ CANADA** DU CANADA AMOUNT DATE MONTANT have \$8,546.00 i May 18/77 \$8,546.00 **DuPont of Canada Exploration Limited** TO THE ORDER OF Becker Drills Ltd. 1217 Francis Street Vancouver, BC V6A 124 IJ L'ORDRE DE t DuPont of Canada Exploration Limited DETACH STATEMENT BEFORE DEPOSITING VEHILLEZ OFTACHER AVANT DE OFPOSI La Société d'Exploration DuPont du Canada Limitée NET AMOUNT MONTANE MCF DISCOUNT ESCOMPLE GROSS AMOUNT MONTANT BRUT YOUR NEEFACNEE DETAILS DATE \$8,546.00 Per your invoice 53046 May 18/77 ö 02212

i

- - -



subsidiary of UPPER CANADA RESOURCES LIMITED

March 25/1977

Du Pont of Canada Exploration Limited #102-1550, Alberni Street Vancouver, B.C. V6G. 1A5

ATTENTION: MR. Chris Gunn

Dear Sir

Referring to previous discussions regarding a drilling program in Northern B.C., we are pleased to offer this letter of proposal.

PROGRAM OUTLINE

LOCATION: Near Atlin, B.C..

ACCESS: All drillholes will be accessible by truck-mounted equipment. Du Pont of Canada Exploration Limited (hereafter "Du Pont") will provide a tractor and will be responsible for access roads, drill site clearing, and any towing assistance required.

FORMATION: Till, Sand and Gravel, Sand, Gravel and Boulders.

PURPOSE OF Gold Placer Exploration.

EXTENT OF Approximately 1,300 feet.

WORK:

DRILLING:

HOLE DEPTH: Approximately 50-150 feet.

HOLE ANGLE: Vertical

DRILLING: Becker Hammer Method using 6 5/8" x 4 1/4" wall drive pipe, bringing up a sample of the formation by airlifting through the centre pipe.

EQUIPMENT: One Becker Truck-mounted Hammer Drill complete with 160 feet of drive pipe, and one pick-up for transportation.



ont/

Driller and Helper. PERSONNEL: We will pperate 11 hours per day, 7 days per week. **OPERATION:** Becker will provide all supplies required for the drilling. SUPPLIES: Becker will provide a cyclone for collection of the drilled material. Du Pont will be responsible for logging the soil form-SAMPLING: ation and marking and handling the samples. We will assist as convenient. No coring is required. CORING: Room and board for our crew will be provided by Du Pont in ACCOMMODATION: Atlin. Fuel for our drill and service vehicle will, free of charge, be provided and delivered to the drill by Du Pont. FUEL: In order to provide sufficient pipe for this job, Becker has to ship extra pipe from Calgary to site and back. The SHIPMENT OF PIPE: charge for this will be a lumpsum in the amount of \$1700.0 If mobilization to the site is prevented by roadban, or if work on the site becomes impractical because of break-up cond-BREAK-UP DELAY: ittions at the property, Becker agrees to delay the work for a per day for every day that the delay exceeds 15 days. Should road ban threaten to tie up the drill for a long period of time, either party will have the option of cancelling PROLONGED the job. In case of such cancellation, Du Pont will pay DELAYS: Becker for all charges incurred to that time. Should the Becker Rig, upon completion of your work, be delayed on its return to Calgary because of road bans, DEMOBILIZATION and if such a delay would not have occurred had the rig travel-DELAY: led direct to Calgary from Cogasa, then Du Pont shall reimburse Becker for the delay by a lumpsum payment of \$1500.0 RATES To and from end of reasonably good road \$3,500.00 This low M & D charge is valid only if job is MOBILIZATION awarded prior to our rig leaving the Cogasa AND DEMOBILIZ-ATION: property. All working time, including drilling, sampling, HOURLY CHARGE:

area a



OVERBURDEN FOOTAGE	In addition to the hourly rate, drilling of overburden footage will be charged at aprate per foot of
STANDBY:	For reasons beyond our control, for example: waiting for orders, waiting for access, etc., to be charged at an hourly rate of \$ 80.00
	(Standby calculated on the basis of 8 hour work day, 70days per week). Except as provided for under "BREAK-UP DELAY".
TRAVEL TIME:	Daily travel time for our crew to be charged at an hourly rate of

TERMS

- DAILY APPROVAL: We will complete and sign a daily drill report. Your representative will daily approve and sign this report. Upon signing, the quantities of the report shall become binding on both parties.
- PAYMENT: Invoices will be submitted monthly and are due on receipt. A 1% per month interest charge will apply to balance unpaid on the 10th of the following month.

WORKMEN'S Becker will pay all dues and assessments payable under the COMPENSATION: Workmen's Compensation Act or other sumilar Acts within the Province or Territory in respect of its employees.

INSURANCE: Becker will maintain such insurance as will protect it from all claims and damage for personal injury including death resulting therefrom and from claims for property damage arising from the operation contemplated hereunder.

Pending an early notification, we expect to be able to start this work approximately the middle of April.

Completion of this program is expected to take 12 days.

Thank you for the opportunity of quoting this job.

Yours very truly.

Lars G. Anderson

LGA/cb

Annell A S Uni Pres. March 31, 1977.



.

LEGEND

1.00







