6489

1977 DRILLING PROGRAM

CHEHALIS PROPERTY (Ku Claims)

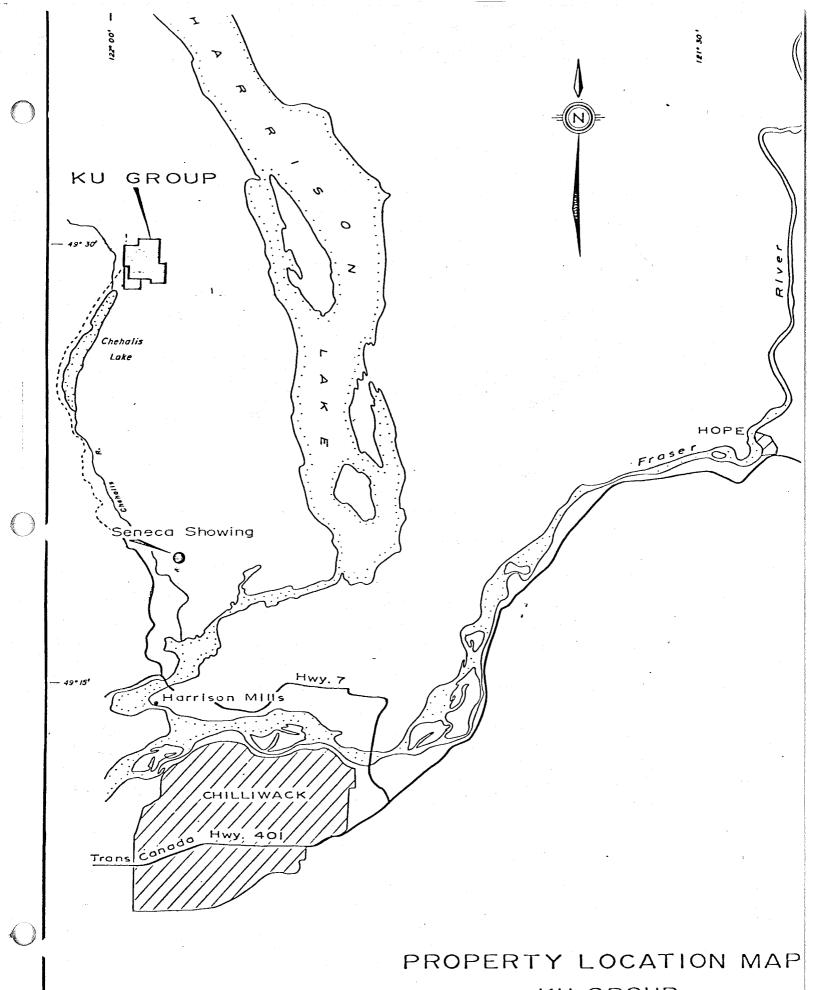
 $49^{\circ} 29' N$ $\frac{122^{\circ} 02' W}{|2| 58}$

for

Chevron Standard Limited
Minerals Staff
901 - 355 Burrard Street
Vancouver, B. C.

by

M. Fox, D. Arscott



KU GROUP

1" = 4 Miles

SUMMARY OF DRILLING

The diamond drill program on the Ku Claims was carried out between May 27 and June 26, 1977.

The holes drilled may be summarized as follows:

Hole #	Grid Location	<u>Orientation</u>	Angle	Length, Feet	Core
1	24+50S-23+50E	225 ⁰ Az	-40 ⁰	403	BQ
2	37+50S-11+00E	230 ⁰ Az	-45 ⁰	665	BQ
3	23+00S-2+50E	230° Az	-60 ⁰	310	BQ
4 ,	14+70S-4+30W	190 ⁰ Az	-50 ⁰	1233	BQ
		Total Foota	ge	2601	

The core is stored on the property at the approximate grid point of 12S 5W.

STATEMENT OF COSTS 1977 DRILLING PROGRAM KU CLAIMS, B.C.

Drilling Contract (back-up attached)		27		
May 27 - 31		6,191.48		
June 1 - 15		24,372.01		
June 16-26		19,017.86		
		49,581.35		49,581.35
Chevron Costs				
Helicopter - drill moves -	May 29	952.00		
	June 2	2,179.52		
	June 7	1,777.23		
	June 9	640.50		
	June 14	2,422.52		
	June 24/26	419.32		
- Special supply run -	June 15	223.64	q	
		8,614.73	8,614.73	8,614.73
Salaries (approx.,for 1 mont direct field super				2,000.00
Drill site preparation and m	oves 622. 280. 250.	00		
	1,152.	00	1,152.00	1,152.00
TOTAL DRILI	LING COST			61,348.08

I hereby certify that the listed costs truly represent the 1977 drilling program on the Ku Claims.

David arealt

INVOICE

D.W. COATES ENTERPRISES LTD.

2560 A SIMPSON ROAD RICHMOND, B.C. V6X 2P9 INVOICE NO.: 1121

JOB NO.:

299

DATE: June 6/77

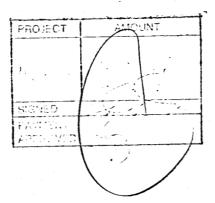
Chevron Standard Ltd. 901 - 355 Burrard Street Vancouver, B. C. V6C 2G8

Harrison Mills Area Drilling

PERIOD: May 27, - 31, 1977

RE:

Drilling Detail
Transportation
Reaming Casing
Drilling with Mud
Travelling Time
Board & Lodging
Core Boxes



2,031.00 53.90 227.48 75.00 60.00 534.00 \$6,191.48

\$3,210.10

All charges reasonable

16 Jun 77

D.W. COATES ENTERPRISES LTD.

2560 A SIMPSON ROAD RICHMOND, B.C. V6X 2P9 INVOICE NO.: 1130

JOB NO.:

DATE: June 21/77

299

Chevron Standard Ltd. 901 - 355 Burrard St. Vancouver, B. C. V6C 2G8

Harrison Mills Area Drilling

RIOD: June 1 - 15, 1977

Drilling Detail
Reaming Casing
Setting Up, Tearing Down & Moving
Drilling With Mud
Travelling Time
Standby Time
Board & Lodgings

3,784.96 1,567.50 688.50

\$16,099.80

1,031.25 780.00

420.00

\$24,372.01

All charges are o.k. to pay D. a. satisfactory.

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M411 24, 3721.01

INVOICE

D.W. COATES ENTERPRISES LTD.

2560 A SIMPSON ROAD RICHMOND, B.C. V6X 2P9

INVOICE NO.: 1138

JOB NO.: 299

DATE: July 6/77

RECEIVED

JUL 1 1 1977

Post is defi CHARL CERC. . COMMITTED

CALLUCYER OFFICE

Chevron Standard Ltd. 901 - 355 Burrard Street Vancouver, B. C. V6C 2G8

Harrison Mills Area Drilling PERIOD: June 16 - 26, 1977

RE:

Transportation Reaming Cementing Drilling with Mud Core Boxes Acid Tests Travellino Time Standby

Board & Lodgings

Drilling Detail

M411 O.K. to pay - Da.

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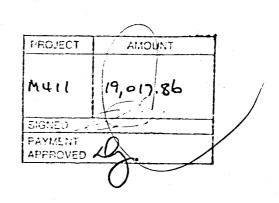
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41.85 281.25

180.00

135.00

\$19,017.86



HIGHLAND HELICOPTERS LTD.

424 Agar Drive, International Airport South, Vancouver, B.C. (604) 273-6161

THE STATE OF THE S

IN ACCOUNT WITH:

Chevron Standard Minerals Staff, 901 - 355 Burrard Street, Vancouver, B. C.

DATE: May 31, 1977

INVOICE No. 2721

CUSTOMER P.O. #

DATE TICKET No. FLIGHT TIME RATE-HR CHARGE

Lay 29/77 12213 3.4 260.00 884.00

Fuel and Oil Charges 80.0 GAl. @ 0.85¢

\$ 952.00

PROJECT AMOUNT

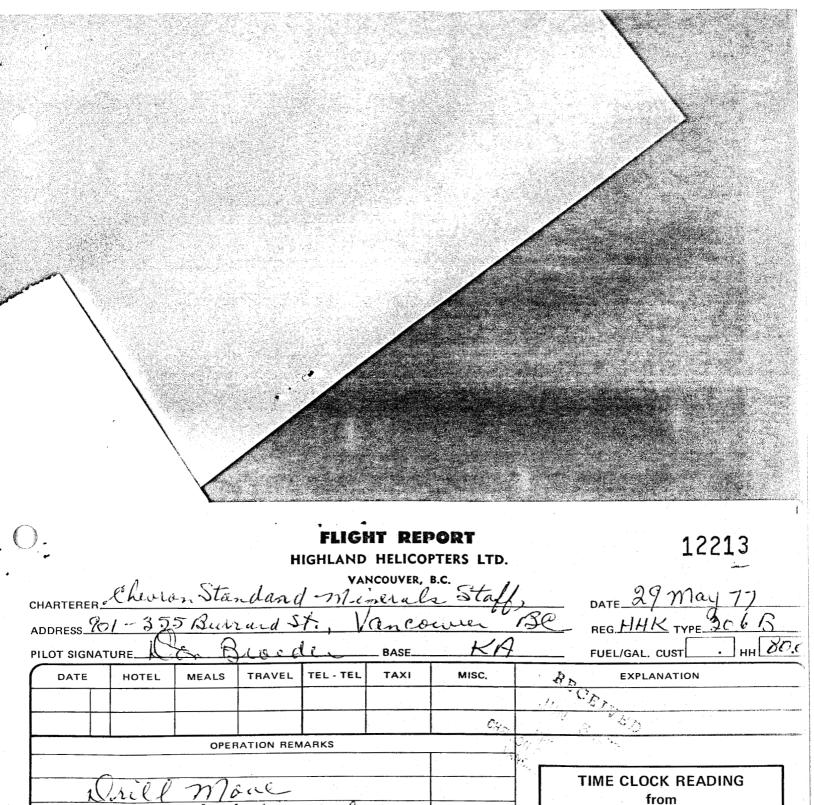
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SIGNED PAYMENT APPROVED

RATE: Class 4 Charter



Terms: Net 30 days from date of invoice. Interest at 1.5% per month will be charged on all overdue accounts.



ADDRESS 801 - 375 BURY and St., Vancoure BC REGHHK TYPE 20 B

PILOT SIGNATURE BLIS CALL BASE KA FUEL/GAL. CUST . HH &

DATE HOTEL MEALS TRAVEL TEL-TEL TAXI MISC. EXPLANATION

OPERATION REMARKS

TIME CLOCK READING from COLLECTIVE CONTROLS

END READING 1295 7

START READING 1292 3

TOTAL FLT. TIME 3 4

MICHAEL FOX .

INVOICE RATE C 4 7 7

HIGHLAND HELICOPTERS LTD.

RECEIVED

424 Agar Drive, International Airport South, Vancouver, B.C. (604) 273-6161

JUM1 4 1977

Minerals Staff CHEVRON STANDARD LIMITED YANCOUYER DEFICE

IN ACCOUNT WITH:

Chevron Standard Minerals, 901 - 355 Burrard Street, VAncouver, B. C.

DATE: June 13, 1977

2766

CUSTOMER P.O. #

DATE

TICKET No.

FLIGHT TIME

RATE-HR.

CHARGE

une 9/77

12053

2.3

260.00

598.00

Fuel and Oil Charges 50.0 Gal.

0.85¢

42.50

\$ 640.50

PROJECT AMOUNT

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SIGNED H-With

PAYMENT
APPROVED 9.

RATE: Class 4 Charter

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Terms: Net 30 days from date of invoice. Interest at 1.5% per month will be charged on all overdue accounts.

HIGHLAND HELICOPTERS LTD.

424 Agar Drive, International Airport South, Vancouver, B.C. (604) 273-6161

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JUN2 4 1977

CHEVRON STATE OF THE VANCOUVER OF THE

IN ACCOUNT WITH:

Chevron Standard Minerals, 901 - 355 Burrard Street, Vancouver, B. C. DATE: June 23, 1977

INVOICE No. 2860

CUSTOMER P.O. #____

DATE

TICKET No.

FLIGHT TIME

RATE - HR.

CHARGE

June 15/77

13617

0.8

260.00

208.00

Fuel and Oil Charges 18.4 Gal. @ 0.85¢

15.64

223.64

PROJECT AMOUNT

MUII 233.64

SIGNED
PAYMENT
APPROVED

RATE: Class 4 Charter



Terms: Net 30 days from date of invoice. Interest at 1.5% per month will be charged on all overdue accounts.

FLIGHT REPORT

HIGHLAND HELICOPTERS LTD.

VANCOUVER, B.C.

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HIGHLAND HELICOPTERS LTD.

4240 Agar Drive, Vancouver International Airport South, Richmond, B.C. V7B 1A3 (604) 273-6161

IN ACCOUNT WITH

Chevron Standard Minerals Staff, 3901 - 355 Burrard Street, VAncouver, B. C. RECEIVED

Minerals Stall CHEVRON STANDARD LIMITED

DATE VANDONNER STICE 1977

INVOICE N2910

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Fuel and Oil Charges 55.2 Gal. 0 0.850

46.92

670.92

PROJECT AMOUNT

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SIGNED Vave Urrell

PAYMENT

APPROVED

Dillupplicable = $670.92 \times \frac{0.5}{2.4}$

= 419.32

RATE: Class 4 Charter



Terms: Net 30 days from date of invoice.
Interest at 1.5% per month will be charged on all overdue accounts.

'FLIGHT REPORT

HIGHLAND HELICOPTERS LTD.

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Minerals Staff
CHEVRON STANDARD LIMITED
VANCOUVER OFFICE

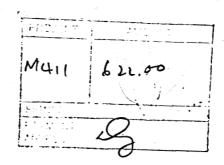
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MIN'ERALS DEPT CHEVRON.

3.5 DAYS @ 140.00 - \$490.00 440 MILES @,304 _ \$132.00

Balance awing \$622.00

O.K. to pay D.A.



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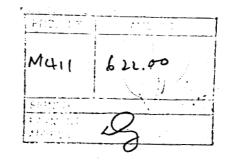
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THIS AGREEMENT made this 16th day of May 1977.

BETWEEN:

CHEVRON STANDARD LIMITED 901 - 355 Burrard Street Vancouver, B. C. V6C 2G8

Hereinafter referred to as "The Company"

OF THE FIRST PART

AND:

D. W. COATES ENTERPRISES LTD. 2560 A Simpson Road Richmond, B. C. V6X 2P9

Hereinafter referred to as "The Contractor"

OF THE SECOND PART

WHEREAS the Company has requested the Contractor to complete a minimum of 3000 feet of drilling and other services as set forth, on the property of the Company in the Harrison Mills area in the Province of British Columbia.

AND WHEREAS the Contractor has agreed to do the said diamond drilling and to perform the other services requested upon the terms, conditions and provisos herein contained.

NOW THEREFORE this Agreement Witnesseth that in consideration of the payment of the amounts herein stipulated and of the mutual covenants hereinafter contained, the parties hereto agree as follows:

SCHEDULE OF RATES - CORING

THAT the Company hereby employs the Contractor to drill on the said property a series of bore holes using a BQ core barrel producing a core of approximately 1 5/16 inches. The Company agrees to pay the Contractor on a footage basis for all drilling according to the following schedule of rates:

From		<u></u>	<u>Price/Foot</u>
0'	-	500' in depth	\$12.45
500'	-	1000' in depth	\$13.00

It is understood that measurement of all bore holes shall be from the top of the casing or stand pipe as the case may be.

THAT the Contractor will provide all necessary equipment, machinery, tools, pumps, drill rods, diamond articles and other equipment to carry out the work.

OVERBURDEN

THAT the Company agrees to pay for casing or stand pipe for the first 100 feet in any hole according to the following schedule of rates:

From			<u></u>	<u>Price/Foot</u>
0'	_	25' in	depth	\$12.25
25'	-	50' in	depth	\$14.25
50'	· -	100' in	depth	\$16.50
100' plu	IS ·			Field Cost

The Company further agrees that in the event that casing or stand pipe on any hole exceeds 100 feet, then charges for casing or stand







piping on that hole shall be charged on a field cost basis from 100 foot depth to bedrock.

Whenever pipe or casing is lost, or left in a hole on the instructions of the Company's engineer, the Company agrees to pay for said casing or pipe at prices F.O.B. drill site plus fifteen percent.

The Company further agrees to compensate the Contractor at the rate of \$0.80 per foot of casing employed for that portion of the hole completed on a field cost basis. Said amount per foot to compensate for the wear and tear on the casing.

MOVING BETWEEN HOLES - SETTING UP - TEARING DOWN

THAT the Contractor agrees that the above schedule of rates includes the first 20 man hours employed tearing down, moving between holes and setting up the drill. Hours employed moving greater than 20 man hours will be charged on a field cost basis.

The Company agrees to supply a helicopter or tractor if needed to move between holes at no cost to the Contractor.

Should a tractor be necessary then the Contractor and Company would co-operate in obtaining a tractor to prepare drill sites and help in moving the equipment between drill locations.

WATER SUPPLY

THAT the Company agrees that the above schedule of rates is deemed to include laying, maintaining and removing waterlines up to a





distance of 1000' feet, and/or a vertical lift of 150 feet.

Should the distance be greater than 1000 feet and/or the lift greater than 150 feet, then the laying, maintaining and removing of the waterlines will be charged on a pro-rata basis: the above distances to the Contractor's account and the "over" to the Company's account on a field cost basis.

TRANSPORTATION

THAT the Contractor agrees to move his men, equipment and supplies from his base to truck unload point and return from load point to base for the lump sum of \$1200.00.

The movement of men, equipment and supplies from truck unload point to first drill site and from last hole to load point will be charged on a field cost basis.

The erection and teardown of a suitable camp is included in the schedule of rates.

The Company would supply a helicopter or tractor for the mobilization and demobilization and for continuing supplies as the job progresses at no cost to the Contractor.

REAMING AND CASING

THAT the Company agrees that all reaming and casing that is necessary to stop cave-ins or maintain the return flow of water shall be completed at the Company's request and that the cost of performing such reaming and placing of such casing as may be required



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will be charged on a field cost basis.

Casing would be charged at the rate of \$0.80 per reamed foot.

CEMENTING

THAT the Company agrees to pay the Contractor for the cementing of bore holes to stop cave-ins on an operating field cost basis.

Waiting for cement to set would be charged on a non-operating field cost basis.

DRILLING WITH MUD

THAT it is mutually agreed that should mud be required to penetrate the overburden and/or aid in core recovery while core drilling, such mud employed will be charged on a cost at job site plus ten percent.

Time employed mixing mud and stabilizing the drill hole would be charged on a field cost basis.

DRILLING SITES

THAT the Contractor agrees to case and drill on the sites and at angles and azimuths selected by the Company representative and to follow the instructions of the said representative relating to place and time of drilling.



ACID TESTS

THAT the Contractor agrees to take acid tests at the depths as instructed by the Company's engineer. Such tests will be charged at the rate of three feet of drilling at the depth the tests were taken.

TRAVELLING TIME

THAT the Company agrees that should the time required to walk or ride from the camp to the drill site and return per man shift be greater than $\frac{1}{2}$ hour, then that "over" will be recovered on a field cost basis.

DIRECTIONAL AND CONTROLLED DRILLING

THAT it is mutually agreed that directional drilling to change the direction of a bore hole and controlled drilling to maintain the angle of a bore hole shall not be part of this agreement.

SECURITY

THAT the Contractor will not give out any information regarding drill results or access to core to any person other than to the Company's representative.

BOARD AND LODGING

THAT the Contractor agrees that the above schedule of rates include the board and lodging for his drill crew.





The Contractor would agree to supply board to Company personnel at the rate of \$5.00 per meal.

CORE BOXES

THAT the Company agrees to pay the Contractor \$4.20 per box and \$1.50 per lid, supplied at their request.

RADIO COMMUNICATION

THAT the Company agrees to supply a radio communications at no cost to the Contractor.

CAVED OR BROKEN GROUND

THAT in the event cavities or loose and caving materials are encountered of a nature as to prevent the successful completion of any hole, the Contractor does not, under such conditions, guarantee to drill to a predetermined depth and in the event that it becomes necessary to abandon the hole, the Company agrees to pay for such incompleted holes at the rates herein specified for all footage completed.

In the event it becomes necessary to resort to cementing, reaming or casing, the Company agrees to reimburse the Contractor to the extent of field cost.

ENVIRONMENT

THAT during the course of the work, the Contractor shall at all times keep the clients premises free from accumulation of waste





materials or rubbish and upon completion of the work shall remove all tools, scaffolding and surplus material and leave the premises 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, sanitation in the bush.

COMPENSATION

THAT the Contractor agrees that the men employed by him in the performance of this Contract shall be fully covered under the Workmens' Compensation laws according to the Province of British Columia and will keep such men covered and will pay the assessment required and will protect the Company from any action arising therefrom, excluding however, claims arising out of any negligent act or omission of the Company, its servants or agents.

INDEMNITY

- a) THAT the Contractor will indemnify and save harmless the Company against and from all claims whatsoever arising by reason of any injury or injuries sustained by any employee or workman of the Contractor while engaged in the employment of the Contractor.
- b) THAT the Contractor will indemnify and save harmless the Company against and from all claims, damages, costs and expenses resulting from the conduct whether by omission or commission of the Contractor under this agreement.

INSURANCE

THAT the Contractor, during the entire term of this agreement, will keep in full force and effect a policy of public liability and property damage insurance with respect to the work undertaken in this agreement, in the amount of \$1,000,000.00 for any one accident.

The insurance shall be with an insurance company duly licensed to do business in the Province of British Columbia.

RIGHT TO AUDIT

If any payment provided for hereunder is to be made on the basis of Contractor's costs, the Company shall have the right to audit



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Contractor's books and records relating to such costs. Contractor agrees to maintain such books and records for a period of two (2) years from the date such costs were incurred and to make such books and records available to the Company at any time or times within the two-year period.

FIELD COSTS

THAT the Company agrees that the following rates shall apply when certain work as defined in this contract is performed on a field cost basis. "Field Cost" is defined as all direct labour, including supervision, drill and support equipment per hour, and cost of pipe or casing lost, diamond loss, and materials and supplies consumed in this work.

Operating Field Costs:

Labour	\$16.50 per man hour
Drill	\$12.50 per hour
Pump	\$ 1.00 per hour
Mud Mixer (when applicable)	\$.90 per hour
Materials Consumed	Cost at job site plus
	15 percent.

Note: No charge is made for drill or pumps when mobbing or demobbing and moving between holes.

Non-Operating Field Costs or Standby Time: (Max. 8 hrs./day)

Labour -----\$15.00 per man hour

Drill - Equipment -----\$8.00 per hour





PAYMENTS

THAT the Company agrees to make payments at the rates hereinbefore specified in accordance with the terms hereinafter set out, that is: For all workdone hereunder between the first and 15th day and the 16th and last day of the month, payment shall be due and payable in 15 days. Interest at a rate of twelve percent per annum shall be added to all accounts more than thirty days overdue, from date of invoice. These payments shall be made as the work proquesses in conformity with the Contractor's semi-monthly invoices.

RIGHTS OF WAY

THAT the Company agrees at its own expense to provide all rights—of—way, all rights of ingress and egress and all real property that may be required in connection with said work, including real property upon which all necessary temporary buildings may be erected, and other facilities required, and shall also warrant the quiet and peaceful possession of all such real property and shall save the Contractor harmless from any and all damages, claims, demands, costs or charges of whatever kind or character incident to the occupation of said real property.

RIGHT OF CANCELLATION

THAT the Contractor reserves the right to cancel this contract should its fulfillment be rendered impossible by:

(a) War, invasion, insurrection, riot, the order or regulations of any civil or military authority, or by strikes, lockouts, or labour disputes, whether in or in the neighbourhood of the Contractor's plant or of that of any supplier of materials necessary



for the completion of the contract.

- (b) The inability to obtain essential materials and supplies due to priority restriction.
- (c) The inability to secure labour due to restrictions or causes beyond the Contractor's control and the Contractor shall not be liable for any loss or damage directly or indirectly suffered by the Company by reason of exercise of such right of cancellation.

THAT it is mutually agreed that this agreement shall be binding upon and enure to the benefit of the parties hereto, their respective successors and permitted assigns, but shall not be assignable by either party without the consent in writing of the other party first had and obtained.

THAT it is further agreed that this agreement and any dispute arising hereunder shall be interpreted and determined in accordance with the laws of the Province of British Columbia.

THAT any notice required to be given hereunder shall be properly given if mailed by registered letter addressed to the Company as follows:

Chevron Standard Limited 901 - 355 Burrard Street Vancouver, B. C. V6C 2G8

or to the Contractor by registered letter addressed as follows:

D. W. Coates Enterprises Ltd. 2560 A Simpson Road Richmond B. C. V6X 2P9



IN WITNESS WHEREOF these presents have been executed by the parties hereto the day and year first above written:

SIGNED, SEALED AND DELIVERED In the presence of

M. Mila

Chevron Standard Limited

D. W. Coates Enterprises Ltd.

Hole No.

Casing Collar Elev: 3050

Ground Elev: 3050

Date Started: May 30, 1977

Chehalis

Page No: 1 Of 1

Co-Ordinates: 24 + 50S

23 + 50E

Core Size: BQ

-40⁰ Inclination:

Date Finished: June 1, 1977

Scale: N/A

Bearing: 225⁰ Az

403' Total Depth:

Project:

Logged By: M. Fox

ion	AI	TER	ATION		COMMENTS:		Ave Core Rec'y/Hole	lphides	Drilling Interval.	re	a G	y. In	Assay	Assay	say	Accav
Section				Fracturing Geology	Section	Descriptive Geology		ns %	Dril Inte	% Co	Samp Inter	% Rec Sample	Cu. A	MOS ₂	Au As	(
<u> </u>					0 - 32 32 - 403	Undifferentiated and interbedded marine to the pyritic black shales; Marine (aquagene) include black silty to cherty tuff and black grey chert and cherty tuff; banding from very thin laminae (1/32") of alternate composition to thicknesses of several fee consistent at 50° against the drill hole carbonate veinlets of varying widths (1/6) and average fracture density of 1/inch are throughout the section and intersect the roughly perpendicular to the bedding plane tuffs and shales; bedded (syngenetic) pyr present in all lithologic horizons except leucocratic cherts and constitutes from of the rocks; pyrite content increasing a fraction of each horizon increases.	tuffs ack to varies ting t;dips are axis; 4" - ½") e present core at 45°, es of the ite is the more <1 to 30%									

Hole No. 2

Casing Collar Elev: 3460

Inclination: -45⁰

Co-Ordinates: 37 + 50S 11 + 00E

Ground Elev: 3460

Bearing: 230⁰ Az

Chehalis Project:

Date Started: June 2, 1977

Date Finished: June 6, 1977

Total Depth: 655'

Page No: 1

9 Of

Core Size: BQ

Scale: N/A

Logged By: M. Fox

			 		Total bepth: 055	rogge	u b	у.	171.	107	· 				
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Sect			Geo	Section	Descriptive Geology	-	S %	Dri	C C	Sam	% Rec Sample	Cu.	MOS ₂	Au A	
				0 - 22	<u>Overburden</u>										
-				22 - 27	Fault zone Sheared and comminuted rock fragments in a pyriti and sericitic matrix, cut by carbonate and serici filled fractures.			=							
				27 - 49	Dacite tuff Mottled greenish grey lithic tuff up to 10% vfg. pyrite in fractures and small shears. minor (<1% fracture - controlled sphalerite.	%)									
1				49 - 53	Fault zone Highly sheared and chloritized gouge; a carbonate sericite filled fracture cuts the gouge at 45° to the DDH axis at the 50' mark.	e and									
	·			53 - 67	Dacite tuff Mottled greenish - grey lithic tuff similar to section 27-49; vfg. fracture - filling and disseminated py. constitutes 5-10% of the rock; < 1% fracture-controlled sphal. in carbonate veinlets cutting core at 45°.										
la en la cont															

2 Hole No.

Casing Collar Elev:

Ground Elev:

Chehalis Project:

Page No: 2

Of

Co-Ordinates:

Inclination:

Date Started:

Date Finished:

Core Size: BQ

Scale: N/A

Bearing:

Total Depth:

Logged By: M Fox

						Dear Ing.	Total Depth:	Logge	1 B	у:	M.	rox					
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ection				turi	eology		Rec'y/	Hole	ulph	Drilling	ore	ple	-, e	Assay	Assay	Assay	Assay
Sec				Fracturing	Ge	Section	Descriptive Geology		% S	Dri	, C	Sam	% Red Samp	Çu.	MOS ₂	Au A	Ag A
						76 - 79 79 - 98 98 - 113	Rhyodacite tuff Lapilli to breccia size fragments of pinkish rhyolite or rhyodacite in a dark green chloritic matrix; minor (<1%) disseminated py. and very m (<1%) disseminated chalcopyrite present in pink clasts; the quartz-chlorite matrix contains disseminations and stringers of py., sphal., and cpy. and an abundance of vfg. disseminated py.; total sulphide content ranges from 5-10%; cpy. ranges from 05%; sphal. ranges from 0-2%. Rhyolite breccia Similar to section 67-76 but pinkish rhyolitic clasts predominate over chloritic matrix. Rhyodacite tuff Description same as for section 67-76; minor liggrey zones and narrow zones where pinkish rhyol fragments predominate over chloritic matrix; cpg 05%; sphal. 0-2%. Rhyolite breccia Description same as section 76-79 cpy. 05%; sphal. 0-1%; total sulphides 5%.	ght itic									

Co-Ordinates:

Inclination:

Casing Collar Elev:

Ground Elev:

Chehalis Project:

Page No: 3

Of

Date Started:

Core Size: BQ

Date Finished:

Scale: N/A

Bearing:

Total Depth:

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Sect			Fract	Se	Section	Descriptive Geology		% S1	Dri	% Co	Sam	% Rec'y. Sample Int	Ğ.	MOS ₂	Au A	Ag A
•					113 - 116 116 - 122	Dacite tuff Fine-grained light greenjsh-grey lithic carbonate veinlets at 45° to drill hole fracture-controlled sphal. 0-1%; cpy. 0-total sulphides 5%. Dacite tuff Mottled greyish-green Lapilli tuff; light	axis; 5%;									
					122 - 123	Fragments in a dark green matrix. KSPAR breccia Potassic feldspar breccia; or perhaps a lapilli-sized elongate and subangular, scolored fragments with preferential original amedium to dark green highly chlorical	salmon-pink entation 20 ^o ich rims									
1					123 - 137	Dacite tuff Mottled greyish-green Lapilli tuff; greygreenish subangular fragments in a darkomatrix 05% cpy.; 0-1% sphal.	yish and er green									
					137 - 149	Rhyolite breccia Greyish-green subangular, breccia-sized fragments in a medium-grey aphanite ma unusually high in cpy., containing up to	trix;									
							•									A WALL BY LOOK SALES AND THE STREET WAS RECOGNIZED TO

Casing Collar Elev:

Ground Elev:

Project: Chehalis

Page No: 4

Of 9

Co-Ordinates:

Date Started:

Core Size: BQ

Inclination:

Date Finished:

Scale: N/A

Bearing:

Total Depth:

ALTI	ERAT	ION	ing	787	COMMENTS:		Ave Core Rec'y/Hole	phides	ing	e	e ale No	y. Int.	say	ssay	ay	say
			Fractur	Geol	Section	Descriptive Geology		% Sul	Drill	% Cor	Samp1 Interv	% Rec' Sample	Cu. As	MOS ₂ A	Au Ass	Ag Ass
						Vfg. dark green gouge; atypical of 'usua shears encountered so far in section. Dacite tuff Medium greyish-green fine-grained crystatuff occasionally cut by calcite veinlet drill hole axis; minor sericitic shears; controlled sphal. and cpy. mineralizatic present.	ul or lithic s at 45° to fracture									
						Very similar to section 122-123. The da (151-206), over a thickness of 2', grade rock containing an increasing proportion	es into a n of elongate									
					217 - 226	Dacite tuff Medium greyish green lithic to lapilli to ing very minor (≪1%) galena associated like concentrations of py.	tuff contain- with bleb-							·		
					226 - 239											
	ALTI	ALTERAT	ALTERATION	ac ac	ac turing Geology	Section 149 - 151 151 - 206 206 - 217	Section Descriptive Geology 149 - 151 Fault Vfg. dark green gouge; atypical of 'usua shears encountered so far in section. 151 - 206 Dacite tuff Medium greyish-green fine-grained crystatuff occasionally cut by calcite veinlet drill hole axis; minor sericitic shears; controlled sphal. and cpy. mineralization present. 206 - 217 KSPAR breccia Very similar to section 122-123. The da (151-206), over a thickness of 2', grade rock containing an increasing proportion and rounded salmon-pink clasts, cut by veinlets at 70° to the drill hole axis. 217 - 226 Dacite tuff Medium greyish green lithic to lapilliting very minor (<1%) galena associated like concentrations of py. Dacite tuff Breccia sized fragments of light grey ria darker medium grey matrix containing to a darker med	Section Descriptive Geology 149 - 151 Fault Vfg. dark green gouge; atypical of 'usual' sericitic shears encountered so far in section. Dacite tuff Medium greyish-green fine-grained crystal or lithic tuff occasionally cut by calcite veinlets at 45 to drill hole axis; minor sericitic shears; fracture controlled sphal. and cpy. mineralization still present. 206 - 217 KSPAR breccia Very similar to section 122-123. The dacite tuff (151-206), over a thickness of 2', grades into a rock containing an increasing proportion of elongate and rounded salmon-pink clasts, cut by carbonate veinlets at 70° to the drill hole axis. 217 - 226 Dacite tuff Medium greyish green lithic to lapilli tuff containing very minor (<1%) galena associated with bleblike concentrations of py. Dacite tuff Breccia sized fragments of light grey rhyodacite in a darker medium grey matrix containing up to 20%	Section Descriptive Geology 149 - 151 Fault Vfg. dark green gouge; atypical of 'usual' sericitic shears encountered so far in section. 151 - 206 Dacite tuff Medium greyish-green fine-grained crystal or lithic tuff occasionally cut by calcite veinlets at 45 to drill hole axis; minor sericitic shears; fracture controlled sphal, and cpy. mineralization still present. 206 - 217 KSPAR breccia Very similar to section 122-123. The dacite tuff (151-206), over a thickness of 2', grades into a rock containing an increasing proportion of elongate and rounded salmon-pink clasts, cut by carbonate veinlets at 70' to the drill hole axis. 217 - 226 Dacite tuff Medium greyish green lithic to lapilli tuff containing very minor (K1%) galena associated with bleblike concentrations of py. Dacite tuff Breccia sized fragments of light grey rhyodacite in a darker medium grey matrix containing up to 20%	Section Descriptive Geology 149 - 151 Fault Vfg. dark green gouge; atypical of 'usual' sericitic shears encountered so far in section. 151 - 206 Dacite tuff Medium greyish-green fine-grained crystal or lithic tuff occasionally cut by calcite veinlets at 45 to drill hole axis; minor sericitic shears; fracture controlled sphal, and cpy. mineralization still present. 206 - 217 KSPAR breccia Very similar to section 122-123. The dacite tuff (151-206), over a thickness of 2', grades into a rock containing an increasing proportion of elongate and rounded salmon-pink clasts, cut by carbonate veinlets at 70 to the drill hole axis. 217 - 226 Dacite tuff Medium greyish green lithic to lapilli tuff containing very minor (<\frac{1}{3}\) galena associated with bleblike concentrations of py. Dacite tuff Breccia sized fragments of light grey rhyodacite in a darker medium grey matrix containing up to 20%	Section Descriptive Geology 149 - 151 Fault Vfg. dark green gouge; atypical of 'usual' sericitic shears encountered so far in section. 151 - 206 Dacite tuff Medium greyish-green fine-grained crystal or lithic tuff occasionally cut by calcite veinlets at 45 to drill hole axis; minor sericitic shears; fracture controlled sphal. and cpy. mineralization still present. 206 - 217 KSPAR breccia Very similar to section 122-123. 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Inclination:

Casing Collar Elev:

Ground Elev:

Project: Chehalis

Page No: 5

Of

Co-Ordinates:

Date Started:

Core Size: BQ

Date Finished:

Scale: N/A

Bearing:

Total Depth:

						Dear Ing.	Total Depth:		Logg	ed E	3y:	Μ.	rox					
	ALTE	RAT	ION			COMMENTS:		Ave	e Core	des			9	j.				
:ion				Fracturing	logy			Red	c'y/Hole	ulphic	Drilling	ore	ple rvalt		rn l	Assay	Assay	Assay
Section			-	Fract	Geol	Section	Descriptive Geology			s %	Dri	20% C	Sam	% Rec Sample	Cu.	MOS ₂	Au A	Ag A
						239 - 241	Gradational zone	-										
						241 - 256	Andesite flow Breccia (226-239) grades into (239-241) epidote freckledandesite.) dark	-green									i
_						256 - 263	Andesite flow Sheared, sericitized zone in andesite.											
· · · · · · · · · · · · · · ·						263 - 271	Andesite flow Description as for section 241-256.											
1						271 - 284	Fault zone Light grey sericitic and chloritic gous rhyolite and rhyodacite "eyes", py. dis on fractures through zone.	ge; oc ssemin	casional ated and	,								
<u></u>						284 - 296	Rhyodacite tuff Medium greyish-green <u>lithic</u> tuff.											
- 1						296 - 298	Andesite flow Identical to sections 241-256 and 263-2	271.										
1						298 - 307	Rhyodacite tuff Medium greenish-grey fine-grained tuff	•										
1									·									
•					Ï !										y			

Casing Collar Elev:

Ground Elev:

Chehalis Project:

Page No: 6

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Co-Ordinates:

Inclination:

Date Started:

Date Finished:

Core Size: BQ

Scale: N/A

Bearing:

Total Depth:

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Assa	2 Assay Assay Assay
Samp Cu.	MOS ₂ Au Ai
	Sample Int.

Casing Collar Elev:

Ground Elev:

Project: Chehalis

Page No: 7

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Co-Ordinates:

Inclination:

Date Started:

Core Size: BQ

Date Finished:

Scale: N/A

Bearing:

Total Depth:

	r						Total Depth. Lo	586	u p	у: 	J'1•	FU)	`				
	ALTE	ERAT	1017	Fracturing	Geology	COMMENTS:	Ave Core Rec'y/Hol	e	Sulphides	ling	re	le vale No	y.	Assay	Assay	Assay	say
Section				Fract	Geo	Section	Descriptive Geology		% Su	Drilling Interwal	00 %	Samp	% Rec Sampl	Cu. A	MOS ₂	Au As	Ag As
Washing along treatment and						432 - 437	Marine (aquagene) tuff Light grey cherty rocks with very faint composition banding at 35° against drill hole axis, bedded py.	a l									
						437 - 439	Shale Distinctly bedded pyritic black shale with bedding 30° against drill hole axis.	at									
						439 - 440	Shear or Fault Light-grey finely-comminuted pyrite rich sericitic gouge enclosing subrounded quartz fragments up to 30 mm diameter.										
						440 - 455	Shale Distinctly-bedded and occasionally brecciated pyritic black shale with beds 30° against drill hole axis.	-						,			
						455 - 466	Rhyodacite flow Light green, brittle, fine-grained rock cut by py. and carbonate veinlets.		·								
						466 - 471	Andesite flow Sheared, chloritized andesite flow but recognizably the same rock type as in sections 241-256 and 263-271	-									

Co-Ordinates:

Inclination:

Casing Collar Elev:

Chehalis Project:

Page No: 8 Of 9

Ground Elev:

Core Size: BQ

Date Finished:

Date Started:

Scale: N/A

Bearing:

Total Depth:

ALTERATION COMMENTS: Ave Core Rec'y/Hole quiling % Soliphide willing % Soliphide will	Interval. % Core	ered le val¢ No.	네 . 드	say	ay		
			- a	Assa	Assay	say	,
Section Descriptive Geology	In %	Samp Inter	% Rec Sampl	Cu. A	MOS ₂	Au As	i
Dacite tuff Mottled, medium greyish green well-pyritized (5%) lapilli tuff in which occasional white quartz clasts are visible; most fragments are light grey felsic material; rock is cut by ov. minor sphal. and cpy. in carbonate veinlets at 45; rocks become increasingly felsic towards bottom of section with lapilli-sized clasts forming an increasing proportion of the rock, until it grades into: 508 - 594							

Inclination:

Casing Collar Elev:

Ground Elev:

Chehalis Project:

Page No: 9

of 9

Co-Ordinates:

Date Started:

Core Size: BQ

Date Finished:

Scale: N/A

Bearing:

Total Depth:

		·					Hogged by: 11. 10x		
	ALTE	RAT	IOI		x	COMMENTS:	Ave Core Phides Say Say	ay	
tion				cturing	eology		Rec. 11 ing ervale ore all ing Assay	2 Assay	ssay
Sect				Fract	<u>ල</u>	Section	Sample Intervale N. Sample	MOS ₂	1
				,		607 - 616	Rhyodacite flow Shattered(?) light-greenish-grey fine-grained brittle rock Cut by a very high number of calcite veinlets (10-20/inch) approximately .25 mm wide; vfg. fracture- controlled cpy. and sphal. (<1%).		
•						616 - 631	Shale/Fault Black angular clasts of shale containing up to 20% py. in a dark grey finely comminuted matrix; only 4' core recovered; carbonate veinlets are subparallel to drill hole axis.		
!						631 - 636	Dacite tuff Light greyish-green mottled fractured and sericitized rock with evenly distributed epidote flecks.		
						636 - 642	Rhyolite Light grey vfg. flow(?) with 2% evenly disseminated py.		
1						642 - 655	Dacite tuff/rhyodacitic tuff Light greyish-green mottled rock with evenly distributed epidote flecks lapilli-sized felsic fragments constitute 40% of the rock in a darker coloured greyish-green matrix, similar to section 631-636 disseminated py. 5-10%.		
-					!	655	END OF HOLE		

Casing Collar Elev: 2850

Ground Elev: 2850

23 + 00S2 + 50E.Co-Ordinates:

Inclination:

-60°

Bearing: 230⁰ Az

Chehalis Project:

Date Started: June 7, 1977

Date Finished: June 13, 1977

310'

Total Depth:

Core Size: BQ

Page No: 1

Scale: N/A

Logged By: M. Fox

2

Of

									97			1 6					- 1
	ALTE	RA'	101			COMMENTS:		Ave Core	Sulphide	8 d	า	Č N	nt	>	Assay		
				ng Bu	2			Rec'y/Hole	hd	ing	e H	a la	× 7	say	455	Assay	Assay
uo				ir.	0	•			17	11 er	or	np.	ec.	As		AS	As
ection				Fracturing	eology				3 %	Pri	» ecc	Sample Intervale	% Rec Sampl	G.	MOS ₂	2	8
Sec				r'a	S	Section	Descriptive Geology		• •		~ ~	1	% S	0	2	_	_
				E	-	Jection									1		
						0 - 32	<u>Overburden</u>	-		-	-						
-						32 - 70	Andesite tuff Dark green, angular, lapilli-sized fragmer	nts in a									
_							light grey, aphanitic siliceous matrix.										
10 1000 1000 1000						70 - 76	Andesite flow Porphyritic dark green andesite, epidotize	ed feldspars									
						76 - 87	Andesite tuff Description as for 32-70.								·		
						87 - 111	Andesite flow 87-97 l' core recovered 97-107 3' core recovered										
1							Weathered and oxidized appearance of rock core recovery indicated either deep weath fractured zone or near surface drilling c	iering in a							-		
						111 - 213	Andesite tuff Lapilli to breccia sized fragments (dark light grey aphanitic siliceous matrix; de	SCLIPCION				-					
1111							identical to section 32-70 but variable pof fragments (and fragment size) and matrin variable coloration of core throughout	rix result									
-																	
-																	
-			ì	-				and the section of the section is a second part of the section of			-						

Co-Ordinates:

Inclination:

Casing Collar Elev:

Ground Elev:

Project: Chehalis

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Page No: 2

Of 2

Date Started:

Core Size: BQ

Date Finished:

Scale: N/A

Bearing:

Total Depth:

				,	Dear Ing.	Total Depth:	Logg	ea E	y:	۱۳۰.	FUX					
	TERA	ATIO	1 60		COMMENTS:		Ave Core Rec'y/Hole	hides	gu	797	e e No	'. Int.	Assay	Assay	say	λε
Section			ic tur	Geology				Sulp	Drilling	Core	amp1	Rec'		MOS ₂ As	As	ASS
Se			Frac		Section	Descriptive Geology		%	Δ,	~ C	N L	% Sar	5	옷	Au	Ag
					213 - 229 229 - 236 236 - 243 243 - 310	Fault Light grey to mottled light grey and gree sericitized, silicified, chloritized and zone; bands of irregularly sericitized, cand silicified finely comminuted gouge in core at an average angle of 70° against daxis; a number of black, angular cherty fresult in a black and green mottled appearsection 224-229. Andesite tuff Lapilli to breccia sized fragments in a lasiliceous matrix. Andesite flow Description as for section 87-111. Rhyolite Brecciated rhyolite flow; angular fragmer and breccia sized) in a darker grey silic pyritic matrix; rhyolite fragments freque by py.; py: Si ratio fractuates so that spy >Si, but usually Si > Py. END OF HOLE	mylonitic hloritized, tersect rill hole ragments rance over ight grey its (lapilli ceous and ently rimmed									

4 Hole No. Casing Collar Elev:

2280

Ground Elev: 2280

Chehalis Project:

Page No: 1 Of

13

Co-Ordinates:

14 + 70S

4 + 30

Date Started: June 15, 1977

Core Size: BQ

-50⁰ Inclination:

Date Finished: June 24, 1977

Scale: N/A

	LTERATI	Fracturing Geology	COMMENTS:		Ave Core Rec'y/Hole	Sulphides	lling	Interval.	vered ole rval¢ No	- (1)	Assay	Assay	Assay	Assay
Section		Fract	Section	Descriptive Geology		ıs %	Dri	, Lut	Samp Interv	% Rec	Cu.	MOS ₂	Au A	A A
			0 - 15 15 - 98	Overburden Dacite Tuff Lapilli to Breccia sized fragments of didacite tuff in a light greyish-green si minor vfg py, oxidized to a depth of 64 sericitic, carbonate shears cut core fr 70-73, 79-80, 82, 83, and 86-87; sectio well-fractured, poorly cored.	liceous matrix ', chloritic, om 65-67,	ζ,								
			98-124 124-143	Dacite Tuff Breccia sized fragments predominant ove otherwise similar to section 15-98. Dacite Tuff Description as for 15-65.	r <u>lapilli</u> ;									
			143-189	Fault Zone Highly sheared, sericited and chloritiz tuff breccia; zone is cut by stringers of carbonate and fine-grained py.	ed dacite and veinlets									

Co-Ordinates:

Inclination:

Casing Collar Elev:

Ground Elev:

Project: Chehalis

Date Started:

Page No: 2

13

Of

Core Size: BQ

Date Finished:

Scale: N/A

Bearing:

Total Depth:

	ALTE	RAT	(0)		7,3	COMMENTS:			Core 'y/Hole	hides	gu	al.	eq	l¢ No.	Int.	ay	Assay	λ	
ection				turing	Geology					Sulphide	illi	Core	over	Sample Intervale N	ple	Assay	- 1	Assay	Assay
Sec				Frac	Ğ	Section	Descriptive Geology			%	占	u%	Rec	Int	Sam	G.	MOS ₂	Αu	Ag
<u> </u>						189 - 250	Dacite Tuff Lapilli to Breccia sized fragments of dardacite tuff in a light greyish-green sil	rk gr iceou	een s matrix										
<u>የ</u> ተ						250 - 256	Fault Highly sheared sericitized and chloritize	ed zo	ne.								ļ		
-						256 - 262	Dacite Tuff Tuff breccia similar to section 189-250.												
						262 - 278	Rhyolite Breccia Angular and subangular light grey rhyoliand light green rhyodacite fragments in a aphanitic siliceous matrix, py veinlets oup to 5% of rock	a dar	rk grey										-
						278 - 280	Rhyodacite Breccia Distinguished from section 262-278 only predominance of light green rhyodacite fover light grey rhyolite fragments.	by a ragme	ents										
						280 - 281	Rhyolite Breccia Description as for 262-278, py veinlets of rock.	from	5-15%										
																-			
-		WWW. N. P. C.	† encoperations					Talkane source of many con-							i 	was order a second			

Hole No. 4
Casing Collar Elev:
Co-Ordinates:

Inclination:

Ground Elev:

Project: Chehalis

Date Started:

Page No: 3

Of 13

Core Size: BQ

Date Finished:

Scale: N/A

Bearing:

Total Depth:

					beat Ing.	iotal Depth:	rogge	d D	<i>y</i> •	111						
	ALTE	RATIO		Geology	COMMENTS:		Ave Core Rec'y/Hole	ulphides	lling	ore	ple rval¢ No.	% Rec'y. Sample Int.	Assay	Assay	Assay	ssay
Section			Fracturing	Geo	Section	Descriptive Geology		ν 2 	Pri	0 %	Sam	% Re	Cu.	MOS ₂	Au A	Ag A
•					281 - 282	Rhyodacite Breccia Description as for 278-280, one fragment ex contact between rhyolite and rhyodacite.	hibits								-	
-					282 - 294	Rhyodacite Tuff "Equifragmental" breccia of dark green rhyofragments; cut by py veinlets with 6" serical alteration envelope.	odacite citic	·								
- -					294 - 298	Rhyodacite Breccia Description as for section 278-280.										
. 1 1					298 - 299	Rhyolite Breccia, py matrix; Pyrite cuts rock in fractures but forms up rock in places, so that rhyolite fragments py matrix.	to 40% of are in a									
					299 - 301	Rhyodacite Breccia Description as for 278-280, py veinlets.										
					301 - 302	Rhyolite Breccia Description as for 298-299, locally up to py.	50% massive			-						
					302 - 304	Rhyodacite Breccia Description as for 278-280, py veinlets.										
-				}									!			

Co-Ordinates:

Inclination:

4

Casing Collar Elev:

Ground Elev:

Project: Chehalis

Page No: 4

Of 13

Dand Elev:

Date Started:

Core Size: BQ

Date Finished:

Scale: N/A

Bearing:

Total Depth:

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*	ALTE	ERAT	LON		2y	COMMENTS:		Ave Core Rec'y/Hole	phides	ng 1 s	þď	I¢ No.	'. Int.	say	Assay	say	λE
ection				turi	Geology	\			ulp	111	ore	nple irva	sc'y	Assay		4556	Assay
Sect				Fracturing	Gec	Section	Descriptive Geology		% 8	Pri	0 %	Sam	% Rec'y. Sample Int	Cu.	MOS ₂	Au /	Ag /
<u> </u>						304 - 308	Rhyolite Breccia Lapilli to Breccia sized fragments, subar subrounded in a dark grey siliceous matridissem. py and well pyritized veinlets up	ix; tinely	•							·	
						308 - 310	Rhyodacite Breccia Description as for 278-280.										
						310 - 325	Fault Highly sheared, sericitized and chloritized only 5' of badly broken and very soft (masericite) core recovered.	zed gouge; assive									
						325 - 370	Dacite Tuff Lithic to Lapilli mottled dark greyish-g cut by py stringers and more massive ble carbonate-filled cavities; finer grained fragmentals predominate.	bs in								-	
ر در د الدر د دا د د						370 - 384	Rhyodacite Tuff Lithic to Lapilli fragments of light gre rhyodacite welded tuff in a medium green matrix, fragments contain a myrmekitic, parallel intergrowth of small chloritize clasts containing dissem. py.	wavy, sub-									

4

Casing Collar Elev:

Co-Ordinates:

Inclination:

Ground Elev:

Bearing:

Project: Chehalis

Date Started:

Page No: 5

Core Size: BQ

Date Finished:

Scale: N/A

Total Depth:

Logged By: M. Fox

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ction GITERATIVE COLUMN CCTUTING COLUMN CCTUTING	COMMENTS:		ve Core Rec'y/Hole	% Sulphides Drilling	ore vered	ole rvale No.	le Int.	Assay	Assay	Assay
Section Fracturing	Section	Descriptive Geology		% St Dri	Reco	Sam Intel	Samp		Au A	AR A
	384 - 425 425 - 444 444 - 457 457 - 512	Rhyodacite Welded Tuff Breccia size light grey felsic fragments, and subparallel in a light green, brittle, grained rhyodacite matrix; preferential ori is 70% against drill hole axis; poor core rin brittle zone 400-415. Dacite Tuff Dark greyish-green fine-grained rock with clapilli to breccia size fragments of daciti rhyodacitic tuff; evenly disseminated py. Shear Sheared, sericitized, and chloritized zone and blocks (6"-24") of rhyodacitic tuff Rhyodacite Welded Tuff Lapilli size, elongated, white, light grey light green rhyolite and rhyodacite welded in a dark green fine-grained matrix; light rhyodacite fragments are by far predominan preferential orientation is 30° against draxis; py occurs as disseminations and indiveinlets in the matrix.	ine- ientation recovery occasional ic or fragments fragments t green it; rill hole							

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	ALTE	RATI	ON	ing	ogy	COMMENTS:		Ave Core Rec'y/Hole	hides	gu	ral	ed	% Rec'y. Sample Int.	Assay	Assay	say	λE
Section				ctu	Geolo	· · · · · · · · · · · · · · · · · · ·			, Sulp	rilli	ntery Core	ample	Rec'y	1. Ass	MOS ₂ As	As	Assay
Š				Fra		Section	Descriptive Geology		%		76%	A S	Sa Sa	C	¥	Αn	Y V
عليد والرواد المساه والمساه						(496 - 512) 512 - 522 522 - 592	Same description as above except for the of lapilli size fragmental sulphides (pyr against the drill hole axis and subparall preferential orientation of the welded rh fragments; at 496 py constitutes 10% of rincreasing to 15% at 512. Rhyolite Flow Dense, fine-grained, dark grey rhyolite; overlying rhyodacite welded tuff is perpedrill hole axis Rhyodacite Tuff Breccia or Stock Work Zon Uncertain textural classification for thi rock; compositionally similar to section	el to the yodacite ock, contact with endicular to									
<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>			1			592 - 625	except that breccia size subrounded fragmerhyodacite welded tuff are rimmed and veil irregular "island" texture by siliceous veyes consisting of a pyrite core (sometime with an aphanitic dark grey siliceous envolume some wide) and finally a very narrow pale grey chalcedonic "chill" zone where it is with the green rhyodacite fragments. Dacite Tuff Dark green fine-grained lithic tuff cut of narrow (.1-2mm) carbonate veinlets.	ments of ined in an veinlets and mes absent) velope (up to bluish in contact									

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ection	LTERATIO	Fracturing	logy	COMMENTS:	Ave Core Rec'y/Hole	Sulphides	Drilling	re	le val¢ No.	'y. e Int.	ssay	Assay	Assay	;;;;
Sect		Fract	Geol	Section	Descriptive Geology	ns %	Drill Late	CO %	Samp	% Rec'y	Cu. A	MOS ₂	Au As	ν ο γ -
				625 - 796	Andesite Tuff Lapilli size angular, pistacho green (epidotized) fragments in a dark green fine-grained andesitic matrix.									*
				796 - 818	Andesite Tuff Lapilli and lithic size dark green fragments in a pale bluish-grey to greyish-green matrix similar to the matrix in section 522-592. Note similarity to Dacite Tuff Breccia intersected from 15-262.									
-														
-				867 - 925	Andesite Tuff Lapilli; similar to section 796-818.								.	
				925 - 932	Fault Highly sheared sericitic and chloritic zone containing occasional lapilli size andesite clasts and cut by quartz veins; veinlets cut core at 20° against drill hole axis, one up to 2mm wide with a layered									
-							Total Company and September 1							

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	ALT	ERAT	ION	ng		COMMENTS:	Ave	Core	des		Ţ	Z	ند		>		
ection				turin	Geology	•	Rec	'y/Hole	ılphi	lling	erval ore	le vale	y. e In	Assay	Assay	ssay	ASSAV
Sect				Fracturi	Gec	Section	Descriptive Geology		% S1	Pril	% Cc	Samp	% Rec'y. Sample Int.	Cu.	MOS ₂	Au As	AP AS
Ī									-		1				1		
•							texture: .25mm rims of py 'preceding' quartz 5-10% of rock and occurs with or without quar a stockwork of stringers.	; py = tz in									
-						932 - 939	Andesite Tuff Dark green fine-grained lithic and/or crystal fragments in a pale bluish-grey to greyish-gr siliceous matrix; qtz-py stringers at 20 aga drill hole axis; py = 5-10%, occurs dissem. o rims on qtz. veinlets.	een inst									•
						939 - 941	Shear or Fault Zone Sheared, dark green andesite tuff fragments i sericite - chlorite matrix; fracture controll 5 - 10% of rock.	n a ed py =									
						941 - 946	Rhyolite Breccia Light greyish-green <u>lapilli</u> to <u>breccia</u> size r fragments in a <u>pyrite matrix</u> ; dark grey aphan siliceous rims around fragments.	hyolite itic									
						946 - 947	Shear Sheared, sericitized zone in rhyolite breccia										
-																	
-			!														

Hole No. Casing Collar Elev: Co-Ordinates: Inclination:

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ection COLITANATIVE COLITANATIV	eology	COMMENTS:		Ave Core Rec'y/Hole	ulphides	lling	erval. ore	Sample Interval No.	c'y. le Int.	Assay	Assay	Assay	ssay
Section	oəg	Section	Descriptive Geology		% S1	Dri	20% 20%	Sam	% Re	Cu.	MOS ₂	Au A	Ag A
		947 - 960 960 - 970 970 - 971.5 971.5 - 973 973 - 974 974 - 982	Rhyolite Light grey vfg rhyolite; 2-3% py dissemina narrow (.25mm) dark grey siliceous veinlet Rhyolite Description as for section 947-960 but widensity increasing from 2/foot to 60/foot concentrations in veinlet dilations and or gives the rock a crude "graphic" texture; py = 5%. Shear or Fault Zone Highly comminuted and rounded rhyolite from a sericite gouge; approx. 5% py disseminates small blebs. Rhyolite Description as for section 947-960. Shear Description as for 970-971.5 Rhyolite Description as for 947-960.	ts. th fracture py ffsets total agments in									

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ALTERATION .	Fracturing Geology	COMMENTS:		Ave Core Rec'y/Hole	 Iphides	ling	re	Sample Intervalt No.	'y. e Int.	Assay	Assay	Assay	200
Section	Fract	Section	Descriptive Geology		ns %	Dril Late	Co Co Co	Samp	% Rec Sampl	Cu. A	MOS ₂	Au As	Δ Δ
		982 - 985 985 - 1001	Rhyolite Description as for 947-960 but with sudde of white quartz veinlets up to lOmm wide, without sericite, cutting core at 30° aga hole axis. Rhyolite Medium grey, fine-grained, well-fractured	with or inst drill rhyolite									
		1001 - 1006	cut by occasional white quartz veinlets (Rhyolite Tuff Light to medium grey banded rhyolite tuff at 70° against drill hole axis; up to 5% disseminated and in fractures at 15°-20° drill hole axis.	; banding									
		1006 - 1013	Rhyolite Light grey, well-fractured, very fine gra containing py in disseminated euhedral cu py in fractures.		·								
		1013 - 1050	Rhyolite Welded Tuff Light greenish-grey, fine-grained, distin welded tuff containing 5% py in dissemina bands parallel and subparallel to foliati at 50° against drill hole axis.	tions and									

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Section NOTE TO THE TO	COMMENTS:	Ave Core Rec'y/Hole	Sulphides	ling	% Core	le valt No.		Issay	Assay	Assay	say
Sect Fract Geo	Section	Descriptive Geology	% Sn	Dril Tate	% Co	Samp Inter	% Rec Sample	Cu. A	MOS ₂	Au As	AR AS
	1050 - 1051	Shale Black silty section at base of welded tuff; highly pyritic - up to 15% bedded pyrite; bedding indeterminate.									
	1051 - 1085	Rhyolite Welded Tuff Medium grey, massively bedded tuff; lithic fragments are subrounded, but occasionally elongated and exhibit some preferential orientation at 50° against drill hole axis.] .								
	1085 - 1092	Shale Black pyritic shale with up to 15% py., disseminated and bedded; minor light grey tuffaceous horizons.									
	1092 - 1097	Rhylolite Tuff Light grey, fine-grained banded rhyolite tuff with 2-5% py in fractures and as disseminations.									
	1097 - 1108	Undifferentiated, Interbedded Marine (Aquagene) Tuffs and Black Pyritic Shale Silty to shaley black pyritic sediments interbedded with leucocratic aquagene tuffs similar to section 1092-1097; banding is at 45° to drill hole axis; py content varies from < 1% to 15%, occurring mainly as vfg py beds in the black shales.									
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tion turing turing ology	COMMENTS:	Ave Core Rec'y/Hole	lphides	ling	re	Sample Intervale No.	'y. e Int.	Assay	Assay	Assay	say
Section Fractur Geolo	Section	Descriptive Geology	ns %	Dril	Col	Samp	% Rec Sampl	Cu. A	MOS ₂	Au As	Ag As
	1108 - 1109	Rhyolite Tuff Angular and subangular Lapilli size fragments in a black silty matrix; rock composed of 70% fragments with weak preferential orientation at 45° against drill hole axis, up to 15% py in elongated (fragmental?) blebs.									
	1109 - 1169	Marine (Aquagene) Tuffs Silty and felsic tuffs, black cherts similar to section 1097-1108 with cherty tuffs predominant below 1125.									
-	1169 - 1175	Rhyolite Tuff Light grey lithic fragments in a darker greyish green matrix containing vfg py in blebs up to l0mm in diameter.									
	1175 - 1192	Marine Tuff Black cherts and minor felsic tuff horizons, similar to section 1109-1169 with silty tuffs now absent						-			-
	1192 - 1199	Multilithic Lapilli Tuff Lapilli to Breccia size, angular to rounded, light brownish-grey, porphyritic rhyolite fragments constituting 85% of fragmentals (approximately 60% of rock) and subangular to subrounded, white, soft									

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ection ACTEMATIVA ACTURING Geology	COMMENTS:		Ave Core Rec'y/Hole	% Sulphides Drilling	erval. ore	ole rval¢No. c'y. le Int.	4 :1 (Assay Assay
Sect Fract Geo	Section	Descriptive Geology		% St Dri	Inte	Samp Interv % Rec Sampl	Cu. MOS ₂	Au A Ag A
		barite or calcite lapilli size fragments size leucocratic rhyolite fragments (com and texturally different from the porphy fragmentals) constituting approximately rock; 5-10% py in "pseudofragmental" fra controlled blebs up to lOmm across and preplacing several altered rhyolite fragm is black, silty, calcareous. Marine Tuffs Interbedded and undifferentiated black pand felsic tuffs and light grey cherts e considerable brittle deformation; appare from 1199-1212 varies from 0° (parallel) against the drill hole axis; from 1212 t bedding is parallel to drill hole axis.	positionally ritic 10% of the cture-artly ents; matrix yritic cherts xhibiting nt orientation to 200					
	1233	End of Hole						

STATEMENT OF QUALIFICATIONS

I, Michael Fox, hereby certify that I am a qualified geologist, having graduated from the University of British Columbia with a B.Sc. degree in April, 1974.

I have worked at mineral exploration related jobs since 1965 and have 12 seasons' of exploration experience.

I personally supervised the 1977 program on the KU claims.

Michael Fox, B.Sc.

Vichael

CERTIFICATE

I, David Philip Arscott, am a Professional Engineer, registered in British Columbia, with office address at 901 - 355 Burrard Street, Vancouver, B. C.

The 1977 Drilling Program was supervised by Michael St.Clair Fox, and carried out at my direction.

David Arscott, P.Eng.

David arealt

