# 5883

ASSESSMENT REPORT ON THE

Caro 17, 18, 19, 21, 23, 3 frc. and DI 1 claims

Situated on Ladner and Siwash Creeks

12 air miles N. E. of Hope, B. C.

New Westminister M.D.

British Columbia

CARO 3 Fr. 92H/11W

On behalf of

CAROLIN MINES LTD.

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO 5883

MAD

Report by:

D. Griffith, B.A., B.Sc. February, 1976
Delta, B. C.

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#### GENERAL

During the fall of 1975, Precambrian Shield Resources Ltd. of Edmonton, Alberta, conducted a diamond drilling program on the Ladner Creek Project, New Westminster Mining Division, Hope, B.C.

Most of the expenditures incurred are being applied for assessment work credits as detailed on the "Affidative on Application to Record Work".

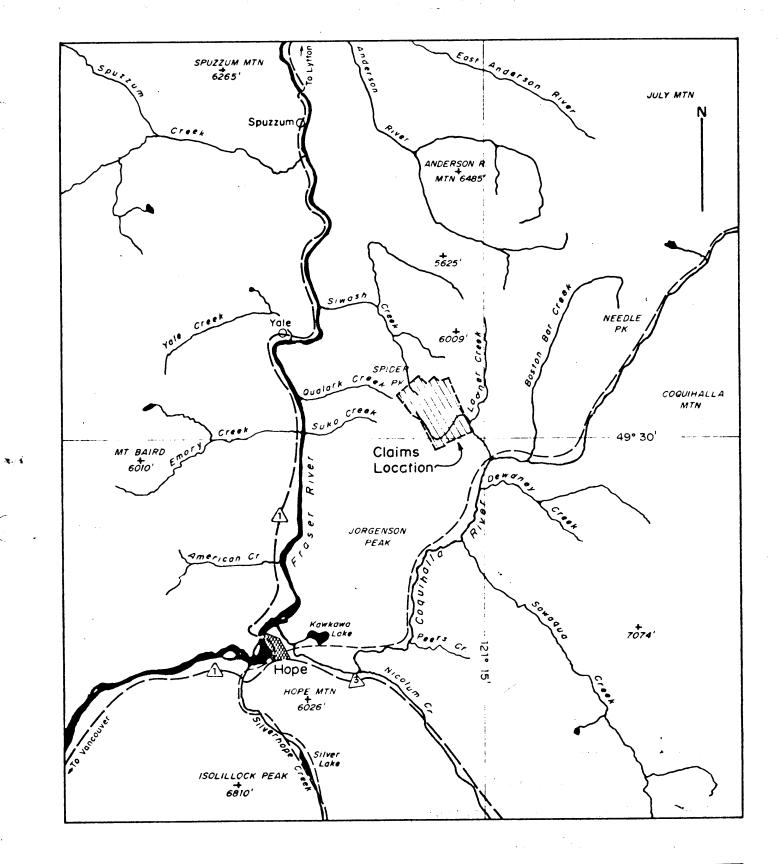
All work was performed on the Caro 3 frc, and is being applied to the DI group of claims.

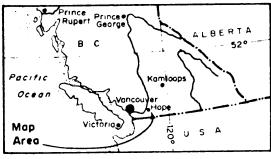
All drill core is stored at the project base camp which is at the junction of the Coquihalla River and Ladner Creek.

#### ITEMIZED COST STATEMENT

Drilling, site preparation (Shepard Enterprises Ltd)	25,587.87
Trenching, road building (H. E. Sanders Ltd.)	1,126.00
2½ cases Forcite 40% @ 16.50	41.25
105 cfm compressor & l jackhammer @ 26.00/day	26.00
Assaying 285 samples @ 5.00/sample (Bondar Clegg & Co. Ltd.	1,425.00
Core spliting B. Chase, D. Heino 30 days @ 60.00/day	1,800.00
Supervision, core logging D.J. Griffith 23 days @ 100.00/	
day	2,300.00
Surveying D.R. Cochrane P. Eng. 2 3/4 days @ 160.00/day	440.00
B.A. Cochrane 2½ days @ 60.00/day	150.00
Report preparation D.J. Griffith 2½ days @ 100.00/day	250.00
B.A. Cochrane 46½ hr. @ 7.35/hr.	341.78
ΤΟΤΛΙ	\$33,487,90

\$31,600.00 of this total is being applied for assessment work credits.





## LOCATION MAP E POFIG.1

#### CAROLIN MINES

LTD.

Ladner Creek Project
Caquihalla River/Ladner Creek Area
New Westminster Mining Division, B. C.

Contraine Consultants Limited only conditions to the United U.S.

N.T.S. 92 H/11 92 H/6 Scale 1:250,000

#### PERSONNEL & DATES WORKED

Date	D.J. Griffith	B. Chase	D. Heino
Oct. 3 4 6 7 8	½ day ½ '' 3/4 '' 1 '' ½ ''		l day
9	1 " 1 " 1 " 1 " 1 " 1 " 1 " 1 " 1 "		
10	1 "	3 3	
11	1 "	l day l "	
12 13	1 " 1 "	1 "	
15 15	1 1 11	•	
16	] "		1 "
17	ī "		1 " 1 "
18	1 " ½ " 3/4 "	1 "	
19	3/4 "	1 "	
20	1 "	1 "	
22	1 "		
23	1/2 11	1 "	•
24	<b></b>	1 "	
25	3/4 "	1 "	
26	1 " ½ " ½ " 3/4 " ½ " ½ "		1 "
28	2 " L 11		1 "
29 30	2 " 1 11		
31	3/6 II	4	1 " 1 "
Nov. 1	5/ → ⅓ #	•	
	1 11		•
2 3 4	-		l "
4			1 "
5	· 12 11		1 " 1 "
5 6 7 9			1 "
7	3/4 "		*
9			<u>]</u> "
12	3/4 "		-
13	子 11 子 11 子 11		1 " 1 " 1 "
14 15	₹ " } !!		1 "
16	3		i "
17	ት !!		-
20	4		1 "
21			1 "
22			1 "

DATE	D.R. Cochrane	B.A. Cochrane
Sep. 30		½ day
Oct. 1	l day	1 day
2	1 "	1 "
20	<b>}</b> 11	
21	1 <sub>5</sub> ti	

#### STATEMENT OF QUALIFICATIONS

David J. Griffith

1970 graduated Queen's University at Kingston, B.A. (English)

1970 - 72 seasonal work as geophysical operator/crew chief for Cochrane Consultants Ltd., Delta, B.C.

1973 graduated University of British Columbia, B.Sc. (Hon. Geology)

Summer 1973 Union Carbide Exploration geologist

Sept. 1973 - present employed full time on the Ladner Creek Project as the Project Geologist.

Mager frag sammer

McMASTER ZONE

LADNER CREEK PROJECT

DIAMOND DRILL LOGS

D.D.H. Ml - M7

CAROLIN MINES LTD.

December, 1975 Delta, B. C.

#### "GEOLOG SYSTEM" FOR ANALYSIS OF GLOLOGIC DATA

#### TABLE 2. Four-Letter Rock Type Code

The first four letters of a rock name form its preferred code, with the fourth letter, if a vowel, being replaced with the next consonant. One letter of a double consonant group, occurring with the first four letters, is usually excluded. Agglomerate becomes AGLM.

Some rock names in the following list are followed by a two-character contraction or short form. These are in brackets and preceded by an equal sign. They are used, as will be seen, to form four-character codes for compound rock names or to facilitate print-out.

tate prin	t-out.				•
ALAS	alaskite		feldspathic (= F:)	PLUT	plutonic rock (= P.)
APLT	Aplite		feldspathoidal (= F.)	PEGM	pegmatite $(= PG = P:)$
ADAM		F.XX	feldspathoidal rock,	PERD	peridotite
	monzonite	1 ,1111	where $XX = 2$ character	PYRX	pyroxinite
ANIAD					• • • • • • • • • • • • • • • • • • • •
ANØR	anorthosite	E A A E	contraction of rock type	PHØN	phonolite
ANDS	andesite (= AN)	F.AN	feldspathoidal andesite	PARG	paragneiss
ARGL	argillite	F.BS	feldspathoidal basalt	PHYL	phyllite
ARKS	arkose	F.DR	feldspathoidal diorite	PYRC	pyroclasite
AGLM	agglomerate	F.GB	feldspathoidal gabbro	PHØS	phosphorite
	36	F.LT	feldspathoidal latite	PPZZ	porphyry, general
		F.MZ	feldspathoidal monzonite		Z may be replaced by the
		F.SY			
DACI	to te ( De)		feldspathoidal syenite etc.		2-letter code of the
BASL	basalt (= BS)	FELS	felsite		dominant mineral or
BRXX	breccia, general	F:SS	felspathic sandstone		mineral combination; e.g.
	Third character X:				PPKF, PPK, PPQZ.
	X alphabetic =		grano = granu (= GR)		Qualifying mineral (Cols.
	genetic origin		green (= G#)		17 & 18) is less dominant
	X numeric =	GABR	gabbro (= GB)		than above, unless Z
	provenience*	GRAN	granite (= G:)		not specified.
	provenience	GRFL	granofels		not specifica.
	(				annumber annumbers in 1 = 0.7
	(see lower left tables,	GRLT	granulite (CN)	0/1110	quartz-quartzose (= QZ
	below)	GNES	gneiss $(= GN = G^*)$	QZDR	quartz diorite (= QD)
	Fourth character X:	G#S#	greenschist		= tonolite
	Sphericity-roundedness**	G#SN	greenstone	QZMZ	quartz monzonite (= QM)
	(see chart at lower	GREY	greywacke	~	= adamellite
	right, below)	GRIT	grit	QZGB	quartz gabbro (= QG)
	right, below,	ĞRDR	granodiorite (= GD)	<b>QZBS</b>	quartz basalt (QB)
		GRNT		ÖZLT	quartz latite (= QL)
		GKNI	granite igneous		
			rock (= G.)	QUAR	quartzite
				<b>QZSS</b>	quartzone sandstone
CGXX	conglomerate, general		hornblende (= HB)		
	Third character X:	HBIT	hornblendite	RHYL	rhyolite (= RH)
	Fourth Character X:	HØRN	hornfels	RHYD	rhyodacite
		HOKK	normeis		
	(as above, see tables and			ROCK	rock (= RK)
	chart below)				4 (1941)
			igneous (IG)		stone (= SN)
CØQN	coquina	IGRK	igneous rock	SASN	sandstone ( $=$ SS)
CAŜI	calc-silicate rock		iron (= 1R)	SLSN	siltstone (= SL)
CATC	cataclasite	IRSN	ironstone		silicate (= SI)
CYSN	claystone	IGNM	ignimbrite	F:SS	feldspathic sandstone
CIGH	clay (= CY)	101111	Smillerite	SERP	serpentinite
		LAMP	lanunganhuga (= 1 M)	SCHS	
(3.4%)	carbonaceous (= C:)		lamprophyre (= LM)		schist $(= S#)$
C:SS	carbonaceous sandstone	D/LM	lamprophyre dyke	SHAL	shale (= SH)
C:SH	carbonaceous shale	LATT	latite (= LT)	SYEN	syenite
C:RK	carbonaceous rock		lit-par-lit (= L>)	SEDM	sedimentary rock
CARB	carbonatite	L>GN	lit-par-lit gneiss		•
CHER	chert	L>LS	lit-par-lit limestone	TONL	tonalite
			limey (= 1.:)		= quartz diorite
DACT	dacite	LISN	limestone (= LS)	TACT	tactite
	diabase (= DB)	L:DØ	limey dolomite	TUFF	tufi
DIAB				TRAC	
DIØR	diorite (= DR)	LAVA	lava (= LV)	INAC	tractyte
DUNT	dunite				
DØLM	dolomite (= $D\emptyset$ = $D$ .)	MØN	monzonite $(= MZ)$		
D.LS	dolomitic limestone	MIGM	migmatite	UNCN	unconsolidated material
DYKE	dyke or $(= D/)$		mixed (= MX)		(soil, clay, silt, sand,
DIKE	dike, as preferred, or	MXGN	mixed gneiss		gravel)
D/XX	dyke, where XX is	MARB	marble		<b>0</b> · · · · · · · · · · · · ·
/ 4848	2-character contraction	MYLN	mylonite	VEIN	vein (= V/)
		141 1 1714	mudstone	V/XX	
D/De	or rock type, as	MILTON		v /	vein, general
D/BS	basaltic dyke	METM	metamorphic rock		where XX may be replaced
D/G.	granitic dyke				by the 2-letter code of the
D/DR	diorite dyke	NØRT	norite		dominant mineral. Qualify-
D/DB	diabase dyke				ing mineral (cols. 17, 18) is
D/LM	lamprophyre dyke, etc.		ortho $(=\emptyset)$ :		less dominant than XX
. ,	* - * · * * * * * * * * * * * * * * * *		oolitic (ØØ)		above
EVAP	evaporite	Ø:GN	orthogneiss	VOLC	volcanic rock
	e tuloute	ØØLS	oolitic limestone	. 5	volume von
		ייוטקען	John Hingstone		

Table 3. Two-Letter Mineral Code
The first two letters of the mineral name form its preferred code. Note particularly the two-mineral combinations.

AC	<u>ac</u> tinolite	FA	famatinite (43% Cu)	мм	montomorillonite
AD	<u>ad</u> ularia	FL	feldspars	MU	muscovite
AL	alunite	FR	ferberite (61% W)	MØ	<del></del>
AB	albite ·	FM	[errimolybdite (40% Mo)		molybdenite (60% Mo)
AA	andalusite	FU		мп	molybdenite rosettes
AG	anglesite (68% Pb)		<u>flu</u> orite	M;	molybdenite dissemmate
		FD	[eldspathoids	M/	molybdenite vein(lets)
AH	<u>a</u> n <u>h</u> ydrite				
AK	<u>ank</u> erite				
AN	<u>an</u> orthite			NP	nepheline
AP	apatite			NI	
AR	aragonite	GL	galena (86% Pb)	147	nicolite (44% Ni)
AS	argenopyrite (45% As)	av.			
AØ		CX.	galena/sphalerite		
	<u>a</u> ebest <u>o</u> e		mineral combination	ØL	olivine, chrysolite
AU	augite	GX	proportion unspecified	ØР	opal
AZ	azurite (58% Cu)	GL	galena alone	KF	orthoclase, K-spar
	See also MX =	G>	galena > sphalerite		See also KX =
	malachite/azurite	G∦	galena = "		KF/PF combination
	combination	G<	galena < "	φx	oxide, general
		SL	sphalerite alone		
		GA	garnet	ØQ	opaques, general
BA	barite	GS	glass(es)		
BE	<u>be</u> ryl	GC			
BI	biotite		glaucophane	PF	plagioclase
D.	Dionie	GN	glauconite		See also KX =
		GØ	goethite		KF/PF combination
BX	biotite/hornblende	GR	graphite	PH	phlogopite
	mineral combination	GK	greenockite (78% Cd)	PY	pyrite
ВX	proportions unspecified	GY	gypeum	PL	pyrolusite
BI	biotite alone	GD	gold	PX	
B>	biotite > hornblende				pyroxene
B#	" = "			PR	pyrhotite
B<	" < "	HE	hematite (70% Fe)	PP	pyrophillite
HØ	hornblende alone	-		PØ	powellite (58% Mo and W
	·			PT	platinum
BS	<u>bis</u> muthanite (70% Bi)	нх	hematite/magnetite		
ВØ	<u>bo</u> rnite (63% Cu)		mineral combination	QZ	
BR	brochantite (56% Cu)	нх	proportion unspecified	-	quartz
	_	HE	hematite alone	QA	quartz, agate
		H>	" > magnetite	QC	, Chert
CA	calcite	H#	" = "	QV	", yein, massive
٠	See also DX =	H <	., < ,,	QX	" , crystal(s) .
		MG	ma metite alone	QR	" , rutilated
	dolomite/calcite	MC	magnetite alone		· <del>-</del>
	combination				
CB	carbonate(s)	HS	hematite, specularite	RN	rhodonite
CE	cerussite (77% Pb)	НΦ	hornblende - See also BX	RC	
СН	chalcanthite (25% Cu)	HU	<u>hu</u> ebnerite (61% W)	RU	<u>r</u> hodo <u>c</u> hrosite
CC	chalcocite (80% Cu)	нм	hydromica	X.	<u>ru</u> tile
c!	chalcocite on gangne	HY	hypersthene		
C\$	chalcocite alone or on				
•				, SA	<u>eanadine</u>
	economic mineral(s)	1L	1997-	* sc	gcapolite
	e.g., CC on CP		illite	SH	scheelite (64% W)
CP	<u>c</u> halcopyrite	IM	<u>ilm</u> enite (32% Ti)	MS	
CL	<u>c</u> h <u>l</u> orite			SE	gericite, muscovite
CD	chloritoid				<u>serpentine</u>
CR	chromite (46% Cr)	JA	jarosite	SD	<u>siderite</u>
CS	chrysotile			SI	<u>si</u> llimanite
ØL	chrysolite - See olivine			sv	<u>eilver</u>
CK				SØ	sodalite
CK	chrysocolla (K as in Coke)			HS	specularite, hematite
	(36% Cu)			SL	sphalerite
CN	<u>cin</u> nabar	KA	<u>ka</u> olin	SP	sphene
CY	<pre>clay - See also CX = clay/</pre>	KY	<u>ky</u> anite	ST	staurolite
	muscovite combination	KF	K-spar, orthoclase		<del></del>
			<del>-</del> ·	SB	stibnite (72% Sb)
		KX	K-spar/plagioclase	sx	sulfides, general
CX	clay/muscevite		mineral combination		
<u>~~</u>	CIZY/IIIUSCOVITA	кx	proportion unspecified		
<b>_</b>	I .	KF		TA	taic
CX	proportions unspecified	K.>	K-spar alone	TL	tellurides, general
C>	clay > muscovite		K-spar > plagioclase	TN	tennantite (50% Cu.
C#	clay = "	K#	K-spar = "	•••	26% Sb and As)
C<	clay < "	K<	K-spar < "	TE	
MU	muscovite alone	PF	plagioclase alone	TT	tenorite (80% Cu)
CZ	clinozoisite			1.1	tetrahedrite (50% Cu.
CU	copper				26% Sb and As)
CØ		LU	leucite	TZ	topa z
CV	cordiorite	Li	limonite(s)	TØ	tourmaline
_	coxellite (66% Cu)		minomite(B)	TR	tremolite
CI	cuprite (89% Cu)				_
		MA	magnesite		
DC	dickite	MG	magnetite - See also MX =	UR	uraninite (92% U)
DG	digenite		HE/MG combination		
DI	diopside	MC	malachite (58% Cu)		
DØ	dolomite			VA.	vanadinite, (73% Pb,
	<del></del>				11% V)
DX	dolomite/calcite	MX_	malachite/azurite	VE	vesuvianite
	mineral combination	_	mineral combination	V E.	
DX	proportion unspecified	MX	proportion unspecified		
DØ	dolomite alone	MC	malachite alone		
D>	dolomite > calcite	M>	•	WF	wolframite (62% W)
D#	" = "		)	WN	wulfenite (56% Pb,
D<		M/	1		26% Mo)
CA		M <	1	WD	wad
U.A.	calcite alone	AZ	azurite alone	wø	wollastonite
		MN			
EN	ana maita (42# C)		manganite		
	enargite (47% Cu)	MZ	monazite	8E	zeolite(s)
EP	epidote	MT	<u>m</u> arcasi <u>t</u> e	21	<u>si</u> rcon
ES	enstatite	MR	mariposite	20	soisite
ER	erythrite (30% Co)	MI	micas, general	22	any mineral
					,

Used particularly for remarks and comments on GEOLOG, these abbreviations are now finding far wider use in the System. The first three letters are again the preferred form, with the third letter, if a vowel, being replaced with the next consonant. However, common usage or principal letters that readily suggest the sound of the word often take precedence.

Compound words are usually first letters, as in DDH for diamond drill hole. The preferred method of pluralizing is by adding 's or \*s to the 3 letter ab-

breviation, thereby converting it to 5 characters. On key punching and other computer input/output, the apostrophe, if used, will be converted to the asterisk because the use of the apostrophe in computer language has been pre-empted for other purposes.

Both upper and lower case letters are permissible with lower case being preferred. Computer input/output will of necessity be in upper case.

dda							
Acs	abbreviation	Day a o		ID.	identity =	Pos	pegmatite+
Ace to	Accessory	Mon Tues	Monday		identification		pegmatitic
alt	alteration =	Wed	Tuesday Wednesday	imp ia,	important	11	parallel
	altered, or	The	Thursday	ie.	inch(es) that is =	per	per, or per ,
alted	altered	Frd	Friday		in other words	ppd	perpendicular
		Sat	Saturday	iface	interface	pdh	percussion drill hole
_	an .	Sua	Sunday	ipb	improbable(ly)	pluc	phenocryst, or
<b>.</b>	and			ips	impossible(ly)	pheno	phenoc ryst
ang	angle : angled, or	/4	per day	inpol	interpolation =	pic	picture .
ang*d	angled, or	deg	degree		interpolate		photo
Ani	analysis	dduct	deduct =	interp	interpret =	pic *s	pictures =
anl*s	analyses	dduce	deduction deduce	int	interpretation interval		photo s
495	Apex	den	density =	int*s	intervals		
499	approximate =	44.1	dense	111-8	intervate		
	approximately =	ddh	diamond drill hale			rdh	rotary drill hole
	approximation	ddh≖s	diamond drill holes	Jul	July	rem	remark
Apr	April	dik	dike, or	Jun	June	205	resistivity
asy a	8002y 2552yo	dyk	dyke; also	jux	juxtaposition	rhe	right-hand-side
Aug	August	D/				rt.	right
~-6	Noget.	dzo	ditto =			rox	rock(s)
		dwa	down	kg	kilogram(s)	ratyp Ftp	rock type, or rock type
		447	40wn	km.	kilometre(s)	7.4	ruck type
bnk	bank			w.r.	KIJUINGET G(E)		
bra	barren			irg	large		
bla	baseline			Lat	latitude	Sat	Saturday
•:	because		equal, or	ihe	left-hand side	Sep	September
bed	bed =	•	equal	<	less than	sol	solution
	bedding =	1	not equal	ln e	line	slb	eoluble
	bedded	el.	elevation	lum	lineament	206	same old stuff
ped*s	beds	end	end =	lar	linear	eec 2nd	second (time) second (order)
blk	black		ended ending	lna L	lineation	400	second (order)
blu	blue	end-d	end of data	ing	light long =		polished section
pra pra	boxwork breccia	eoh	end of hole	ing	long =	pe.	post script
brz*d	brecciated	est	estimate(d)	Lng	longitude	pa: pt.	point
bka	broken	•6.	example	loc	location a	(+)	positive(ly), or
hrw	brown	*6. *2	examples		locate *	***	positive(ly)
		acept	except :		locality	posit	position
			exception		- ·•	prp	purple
		×	extrense =			po s	positive(ly)
			extremely =			prb	probable(ly)
cap	cap =		exceptionally	Mar	March	peb	possible(ly)
	capping a capped	etc.	etc.	mater	matter a	•	•
103	capped certain(ly)	expol	extrapolation =		material	493	questionable(ly), or
erg	charge :		extrapolate	mts	matrix	(?) ???	very questionable(ly)
***	chargeability			May	May		very questionmentally
elr	clear			m	metre(a)		
color	seler •			M	medium =		
	colour				middle = middling =	alp	since last point
er e	C00788				moderate(ly) or	slk*s	stickensides
				mod	moderate(ly)	*6.	specific gravity =
				mid	middle =	-44	density
					middling = mid	etb etn	stable station
				min	minute(s)	atw	stockwork, or
				mec	miscellaneous	stkwk	etockwork
				mgl	milligal	at.	etraight
Colors		fac	face	mm.	millimetre(s)	etr	structure
yel	yellow	fac*e	facies	. ml.	millilitre(s)		
grn	green	_/	fault, or	Mon	Monday	sup.	supergene, general
blu	blue	fit	fault =	mth	niopih	Bupes	supergene, oxide
						an Proper	
era	erange		faulted, or	med	medium	sural	supergene, sulphide
red	red	Ωι+d	faulted	med	medium	sursi	
	red purple	Ωt	faulted faulting, or	med	medium	aurs) elace	surface, or
red prp tan	red purple ten	Ωt Ωt*g	faulted faulting, or faulting	med	medium	sural siace sic	surface, or surface
red prp tan brw	red purple tan brown	Πι Πι*g Feb	faulted faulting, or faulting February	med	medium	aurs) elace	surface, or
red prp tan brw wte	red purple tan brown white	Ωt Ωt*g	faulted faulting, or faulting	med	medium	sural siace sic	surface, or surface
red prp tan brw wte blk	red purple tan brown white black	fit fit*g Feb fel	faulted faulting, or faulting February felsenmere	med	medium	supsi sface sfc s/x S/XXX S/LGL	surface, or surface survey, or
red prp tan brw wte	red purple tan brown white	fit fit*g Feb fel	faulted faulting, or faulting February felsenmere flank	med Month o		sursi sface sfc s/x S/XXX S/LGL S/EMA	eurlace, or eurlace eurvey, or eurvey, general
red prp tan brw wte blk	red purple tan brown white black	fit fit <sup>e</sup> g Feb fel fik	faulted faulting, or faulting February felsenmere		(Year   January	surst sface sfc s/x S/XXX S/LGL S/EMA S/EMG	surface, or surface survey, or survey, seneral legal electromag, airborne electromag, ground
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#### APPENDIX

List of Abreviation to accompany zeroxed sheet for Drill Logs

assoc.	associated
c/v	cleavage
cltic	chloritic
clzd	chloritized
cncr	concretions
dec	decreasing (to)
fold(d)	fold(ed)
fln	foliation
G	gradational
inc	increasing (to)
irr	irregular
par	parallel (to)
perp	perpendicular (to)
sec	secondary
sft	soft
SHR (d)	shear(ed)
str	strong
supar	subparallel
T	tension gashes
trc	trace (s)
unkn	unknown
var	variable

Unless otherwise stated, all angles are measured against the core axis.

Note: All lengths of sample sections are subject to slight errors due to loss of core, grinding, etc.

# Footage Reading Corrected casing -37

#### Diamond Drill Record

HOLE No. MI Sheet No. 1 of 3	Lat. 4291.4
Pate Begun Oct. 6 , 1975	Bearing 225 T
Date Finished Oct 7 , 1975	Flex Coller /476 · 7



Cochrane Consultants Limited

DEPTH	DESCRIPTION DESCRIPTION	SAMPLE No.	FROM	то	WIDTH of SAMPLE	AU oz/ton	
0 - 3.66 m	oub						
3.66 m ~/6.80 m.	QUARTS - ALBITE ROCK; BED	M1 - 1	3.66	4.16	0.50	0.020	<u> </u>
	20° INC 70°; CLV 70°; QZ	- 2	4.16	4.80	0.64	0.005	
	PAR CLV. 72 QZ PAR CLV.	- 3	4.80	5.70	0.90	0.010	
	10°; 17. CA: 2.07. (0.1/-7.0%) PR.	-4	5.70	6.30	0.60	0.080	
	3.0% (0% - 15%) PY; O% AS eCP	-5	6.30	7.20	0.90	0.010	
		- 6	7.20	8.30	1.10	0.010	
		-7	8.30	9.20	0.90	0.010	
		-8	9.20	10.65	1.45	0.020	
		- 9	10.65	12.10	1.45	0.030	
		-/0	12.10	12.65	0.55	0.005	
		-//	12.65	13.25	0.60	0.015	
		-12	13.25	14.13	0.88	0.015	
		-13	14.13	15 .40	1.27	0.035	
		- 14	15.40	16.80	1.40	0.16	
16.80 m 27.49 m.	INTERBEDDED WACKE & ARGL; BED /	- 15	16.80	17.70	0.90	0.010	<del></del>
	CLV 70°. 1% QZ PAR CLV;	-/6	17.70	20.10	2.40	0.005	
	2 ? CA : 0.2 ? PR : 09 HS CP, PY.	-17	20.10	2 1.75	1.65	trc	
		-/8	2 <i>  75</i>	23·35	1.60	tro	

	DIP TEST		
	Angle		
Footage	Reading	Corrected	
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#### Diamond Drill Record

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HOLE No. M.1 Sheet No. 2 of 3	Lat	Total Depth
Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	FROM	то	WIDTH of SAMPLE	AU oz/ton	
		11-19	23.35	25.50	2.15	trc	
		- 20	25.50	26.08	0.58	0.005	
		-21	26.08	27.49	1.4/	0.005	
2749 4877	GREEN WACKE GREEN ARCL BED /CLV/	22	27.46	070			
27.49m - 49.70m	GREEN WACKE, GREEN ARGL; BED/CLV/ CL 70°-80°; 10% (0%-25%) QZ	- 22 - 23	27·49 27·85	27.85 <sup>-</sup> 29.15	1	0.020	
-	PAR CLU; 14. CA; tre (01-tre) As.		29.15	30.69		0.015	
	0.89 (0.1? - 6.0%) PR : tre CP ;	- 25	30.64	31.20	0.56	tre	
	0.3 9. (0 ? - 15.09.) PY.	-26	31.20	32.01	0.81	0.005	
		-27	32.01	32.51	0.50	0.025	
		-28	32.51	33.60	1.09	0.010	
		-29	33.60	34.70	110	0.050	
		-30	34.70	35.40	0.70	0.030	
		-3/	35.40	35.75	0.35	0.020	
		-32	35.75	37.55	1.80	0.035	
		-33	37.55	37.80	0.25	0.025	<u> </u>
		- 34	37.80	39.05	1.25	0.020	
		-35	39.05	39.5 <b>3</b>	0.48	tre	
		-36	39.53	41.14	1.61	0.040	
		-37	41.14	42.04	0.90	0.005	
		-38	42.04	42.64	0.60	trc	

	DIP TEST				
	Angle				
Footage	Reading	Corrected			
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#### Diamond Drill Record

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Cochrane Consultants Limited

		- Cochiane Constituting Diffited
HOLE No. M! Sheet No. 3 d. 3	Lat	Total Depth
Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	FROM	то	WIDTH of SAMPLE	AU oz/ton	
		MI- 39	42.64	43.00	L I	0.010	
		-40	43.00	44.52	1.52	trc	
		- 41	44.52	46.20	1.68	0.005	
		-42	46.20	47.40	1.20	tra	
		-43	47.40	48.74		tre	·
		-44	48.74	49.70	0.96	tre	
·							
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	DIP TEST		
Angle			
Footage	Reading	Corrected	
Casing	-35°		

#### Diamond Drill Record

\_\_ Cochrane Consultants Limited

HOLE No. M2 Sheet No. 1 & 3	Lat. 4295 · 6
Section	Dep. 2316.9
Date Begun Oct. 9, 1975	
Date Finished Oct. 10, 1975	Elev. Collar 1463.0

Total Depth 68·19 m,
Logged By D. J. G.
Claim CHR0 #3 FRC
Core Size BQWL

DEPTH	DESCRIPTION	SAMPLE No.	FROM	το	WIDTH of SAMPLE	AU oz /ton	
0 - 5.60 m.	OVB						
5.60 m 11.53 m.	QUARTZ - ALBITE ROCK . ALBITE -	M2 - 1	5.60	7.38	1.78	0.24	<del>-</del>
	QUARTZ - ALBITE ROCK, ALBITE -  CARBONATE ROCK. BED 70°-0° VAR.  CLV /CL 50°-70°; 25 %. QZ PAR	- 2	7.38	7.78	0.40	0.31	
- · · · · · · · · · · · · · · · · · · ·	CLV /CL 50 - 70°; 25 %. QZ PAR	- 3	7.78	10.80	3.02	0.055	
	CLV & 10°; 3% CA; 0.1% AS; 1.0%. PR; 3.0! PY; 0% CP.	- 4	10.80	11.53	0.73	0.070	·
	PR; 3.0! PY; 0% CP.						
11:53 m = 25:47m	INTERBENDED WACKE - ARGL : BEO/	-5	11:53	12.43	0.90	tre	
1. 35 m. == 1. m.	CLV 1GR /CL 55°-80°. 10%.(0%-	- 6	12.43	12.86	0.43		
	TO LO QZ PAR CLV & 10 · 2/6	- 7	12.86	14.26	1.40		
	CA, 0.6 %. PR . tru (0%-3.0%) PY;	- 8	14.26	16.04	1.78	0.010	
	09. AS CP.	- 9	16.04	16.90	086	0.010	
		- 10	16.90	17.90	1.00	0.020	
		- //	17.90	18.30	0 40	0.015	
		-/2	18.30	19.19	0.89	0.015	
		-/3	19.19	20.55	1.36	0.010	···
		-14	20.55	22.15	1.60	0.010	
		- 15	22./5	23.98	1.83	L	
		-/6	23.98	25.47	1.49	0.005	

# DIP TEST Angle Footage Reading Corrected

#### Diamond Drill Record

Cochrane	Consultants	Limited
Total Death		

HOLE No. M 2 Sheet No. 2 4 3	Lat	Total Depth
Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	FROM	то	WIDTH of SAMPLE	AU oz/ton	
25.47m - 43.75m.	BEDDED ARGL MUDBALL SLATE:	M2 - 17	25.47	27.87	2.40	tre	
	BED/CLV 70-85°; 2% QZ PAR	- 18	27-87	31.30	3.43	trc	
	CLV . 10 : 10% CA . 01% PR;	- 19	31.30	<b>3</b> 3·25	1.95	tic	
	O, As, CP, PY.	- 20	33.25	36.43	3.18	tre	
		15 -	36.43	39·3 <u>3</u>	2.90	trc	:
		- 22	39.33	41.17	1.84	tre	
		- 23	41.17	43.75	2.58	4rc	
43.75 m 68.19	GREEN ARGL GREEN WACK MINOR	- 24	43.75	44.71	0.96	0.015	
	QUARTZ - ALBITE ROCK. BED / CLV /CL	- 25	44.71	45.55	0.84	0.005	
	70°-90°; 2% (0%-60%) QZ PAR	-26	45.55	48.39	2.84	trc	
	CLV & 0°: 1.5% CA: tre (0%-tre)	-27	48.39	49:33	0.94	0.010	
	AS; 0.2% PR; tre (0%-tre) CP: 0.4%	- 28	49.33	44.93	0.60	0.020	
	(09-5.0%) PY	- 29	4 9.93	50.68	0.75	0.005	
		-30	50.68	52:57	1.89	tre	
		· -31	52.57	55.87	3.30	tre	
		-32	55.87	<i>57.05</i>	1.18	tre	
		- 33	57.05	60.55	3.50	tre	
		-34	60.55	6/.00	0.45	0.005	
		- 35 <sup>-</sup>	61.00	61-50	0.50	tra	
		-36	61.50	62.90	1.40	0.005	

DIP TEST					
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### Diamond Drill Record

Cochrane	Consultants	Umited

HOLE No. M.2 Sheet No. 3 of 3		Total Depth
Date Begun	Bearing	

DEPTH	DESCRIPTION	SAMPLE No.	FROM	то	WIDTH of SAMPLE	AU oz/ton	
		M2 - 37	62.90	66.52	3.62	fre	
		-38	66.52	67.92	1.40	tre	
		- 3 9	67.92	68.19	0.27	tre	
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DIP TEST				
Angle				
Reading	Corrected			
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	An Reading			

#### Diamond Drill Record

HOLE No. M3 Sheet No. 1 4 3 Lat. 4310.7

Section Dep. 2332.8

Date Begun Oct 15 ,1975 Bearing 225° True.

Date Finished Oct 17 ,1975 Elev. Collar 1461.5

Total Depth 100 6 M.

Logged By D. J. G.

Claim CARO # 3 FRC

BQUL

DEPTH		DESCRIPTION	SAMPLE No.	FROM	то	WIDTH of SAMPLE	AU oz Ifon
0 - /	9.90m	oub 10%. RECOVERY	M3 - 1	6.30	19.90	/3.60	0.005
19.90 m 28		QUARTZ - ALBITE ROCK, MINOR SERP;	- 2	19.90	21.64	1.74	0.12
		BED/ CLV /CL /GR 50° INC 65°.	- 3	21.64	55.88	1.24	0.17
		157 (57-50%) QZ PAR CLV &	- 4	22.88	24.34	1.46	0.035
		0°. 2.0? (07.10%) CA; 0.3% HS.	- 5	24.34	25.32	0.98	0.14
		1.0% PR; +ru (07-017.) CP :15%	-6	25.32	26.26	0.94	0.10
		PY.	-7	26.26	27.20	0.94	0.030
			- 8	27.20	28.93	1.73	0.015
28.93 <sub>m.</sub> - 50	0.90 <sub>m</sub> .	INTERBEDDED ARGL WACKE; BED/	- 9	28.93		i	0.015
		CLV / GR / CL 65° INC 80°; 12 7. (17-257) QZ PAR CLV 8 0°; 17.	-10 -11	30·16 30·96	30.96 32.37	0.80	0:020
		CA; tr. (01-001) AS. 0.2 ? PR. 0.3%		32.37	34.45	2.08	trc
		PY: 0% CP.	- /3	<i>34.45</i>	35.45	1.00	trc
			• -/4	35.45	36.90	1.45	0.005
		-	-15	36.90	39.20	2.30	tre
			-16	39.20	40.24	1.04	trc
			-17	40.24	41.10	0.86	tre
			-/8	41.10	44.60	3.50	trc
	_		-/9	44.60	45.80	1.20	0.005

# DIP TEST Angle Footage Reading Corrected

### Diamond Drill Record

 Cochrane Consultants Limited
 Total Depth

HOLE No. M 3 Sheet No. 2 of 3	Lat	Total Depth
Section		Logged By
Date Begun	Bearing	Claim
Date Finished	Elev. Coltar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	FROM	то	WIDTH of SAMPLE	AU 02/ton	
		M3 - 20	45.80	47.80	2.00	0.005	
_		- 21	47.80	5-0.30	2.50	trc	
		- 22	50.30	50.90	0.60	tre	
50.90 m 62.10 m.	MUDBALL SLATE, GR ARGL; BED/CLU/	-23	50.90	53.20	2.30	trc	<del> </del>
	GR 80°: 41. GZ PAR CLV & 10°	- 24	53.20	55.35	2.15	trc	
	GR 80°; 41. GZ PAR CLV \$ 10°; 5% CA; 0.2% PR; 0.2% PY; 0%.	_ 25	55.35	56.15	0.80	tre	,
	AS, CP.	- 26	56.15	59.10	2.95	tre	
		- 27	59.10	61.32	2.22	tre	
	LOST WATER 61.0 m.	-28	6/.32	62.10	0.78	trc	
62:10 m 79:26 m.	CREEN WACKE GREEN ARGL · BED /CLV/	- 29	62.10	64.00	1.90	0.070	
4.1	CL 80°-90°; 3? (17-20%) QZ	- 30	64.00	66.00	2.00	tre	
	PAR CLV . 10° . 21 CA . trc (0%	- 3/	66.00	66.20	0.50	<del>                                     </del>	
	1-027) PS 037 PK + tre (0/-0.1/) CP;	- 32	66.50	69.48	3.2B	tre	
	2.6% (0% - 9.0%) PY.	-33	69.48	73.05	3.57	tre	·
		- 34	73.05	74.71	1.66	tre	
		- 35	74:71	76.70	1.99	0.005	
		- 36	76.70	79.03	2.33	trc	
		- 37	79.03	79.26	0.23	0.015	

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Footage	Reading	Corrected				
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Diamond	Drill	Record
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Cochrane	Consultai	nts	Limited

HOLE No. M3 Sheet No. 3 of 3	Lat	Total Depth
Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	FROM	то	WIDTH of SAMPLE	AU oz/ton	
79.26 m 100.60 m.	DEDDED ARGL INTERBEDDED ARGL &	M3 - 38	79.26	81.30	2.04	0.005	
	WACKE, GREEN ARGL . BED /CLV /CL	- 39	81.30	84.33	3.03	tre	
	65°-90°; 3 % (1.0%-50%) QZ PAR CLV & 20°; 3 % (CA; 0.2% PR. 0.1% (0%-2.0%) PY; 0% AS, CP.	- 40	84.33	86.80	2.47	tra	
	CLV 220° . 3 % CA ; 0.2 % PR.	-4/	86.80	88.48	1.68	tre	
	0.17. (07 2:07) PY; 0% AS, CP.	-42	88.48	89.30	0.82	0.015	
		- 43	89.30	92.58	3.28	0.005	
		-49	92.58	94.60	2.02	tru	-
		-45	94.60	97.60	3.00	Ire	
		-46	97.60	99.75	2.15	tr:_	
		-47	99.75	100.60	0.85	tre	
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# DIP TEST Angle Footage Reading Corrected Casing -35°

### Diamond Drill Record

IOLE No. M. 4 Sheet No. 1 of 3	Lot 4276.0
ection	Dep. 23 44 · 1
Date Begun Oct 21 1975	Bearing 225° True
Pate Finished Oct 22, 1975	Elev. Collar. 1464.2



#### Cochrane Consultants Limited

Total De	epth	67.5	0 m.
Logged (	By D.	J. 6	<del>.</del>
Claim	CARO	#3	FRC
Core Size	. BQ	WL	

DEPTH	DESCRIPTION	SAMPLE No.	FROM	то	WIDTH of SAMPLE	AU oz /ton	
0 - 6.32 m.	015						
6:32 m 9.70 m.	FELDSPATHIC WACKE, QUARTS- ALBITE	M4-1	6.35	7:35	f·u3	0.035	
	ROCK, MINOR SERP, BED/CLV/CL/GR/ SE 55° INC 70°; 12%. QZ PAR	- 2	7.35	8.37	1.02	0.050	
/	SE 55° INC 70°; 12% QZ PAR	- 3	8.37	9.70	1:33	0.11	
	CLV & 10°, tre CA; 0.2% PS; 0.4% PR; tre CP; 2.5% (0.5%-			!			
,	5.01.) PY.						
9.70 m 18.15 m.	INTERBEDDED ARGL & WACKE . BED/CLV/	- 4	9.70	/0.05	0.35	0.015	
	CL/GR 55°-65°, 20% (4150%)	- 5	10.05	12.41	2.36	0.005	
	QZ PAR CLV & 10°; 1% CA:	- 6	12.41	13.65	1.24	0.015	
·	tre (01 - tre) AS. 1.57 (0.21 - 4.01)	-7	13.65	15.45	1.80	0.015	
	PR: tru (0% - 0.2%) CP: 0.4% PY	_ 8	15.45	16.80	/:35	0.035	
		- 9	16.80	18.15	1.35	0.030	
18.15 m 39.62 m.	BRECCIATED CHER, MUDBALL SLATE;	-10	18.15	19.20	1.05	tre	
	BED/CLV/GR/CL 75°; 25% QZ	- 11	19.20	19.65	0.45	0.015	
	PAR CLV 10° 27. CA . 0.2/, PR.	-12	19.65	20.92	1.27	0.005	
	0.4% PY. 0% AS CP.	-13	20.92	2.2.18	1.26	tre	
	,	- 14	22.18	23.94	1.76	tre	

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### Diamond Drill Record

#### . Cochrane Consultants Limited

HOLE No. M4 Sheet No. 2 of 3	Lot	Total Depth
Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Elev. Collar.	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	FROM	то	WIDTH of SAMPLE	AU oz/ton	
		M4 - 15	23.94	25.50	1.56	tre	
		- 16	25.50	27.35	1.85	tre	
		-17	27·35	28.60	1.25	tre	
		-18	28.60	30.50	1.90	fre	
		-19	30.50	33.81	3.3/	fre	
		. 20	33.81	35.75	1.94	0.005	
		- 21	35-75	<i>37</i> ·4 <b>7</b>	1.72	tre	
		-52	37.47	38.52	1.05	trc	
<del></del>	'	_ 23	38.52	39.62	1.10	0.005	
					·		
39.62m - 49.10 m.	INTERBEODED WACKE & ARGL BED/	-24	39.62	40.75	1.13	0.015	
	CLV 80°; 3%. QZ PAR CLV 2	- 25	40.75	42.38	1.63	trc	
	CLU 80°; 3%. QZ PAR CLU 2 11°; trc PR; 0.4% PY; 0% AS.	-24	42.39	42.70	0.32	0.005	
	CP.	-27	42.70	43.40	0.70	0.005	
		-28	43.40	44.11	0.7/	trc	
		-29	44.11	45:33	1.22	trc	
		-30	45:33	48.00	2.67	tru	
		-3/	48.00	49.10	1.10	hri	

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#### Diamond Drill Record

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HOLE No. M. 4 Sheet No. 3 4 3	Lat	Total Depth
Section		Logged By
Date Begun	Bearing	Claim
Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	FROM	то	WIDTH of SAMPLE	AU oz/fon	
49.10 m - 67.5 m	GREEN ARGL, ARGL: 6LV/CL 80°. 67. (+ 80%) QZ PAR	M4 - 32	49.10	50.58	1.48	trc	
	80°. 67. (+ 80%) QZ PAR	-33	50.58	51.80	1.22	0.020	
	CLV & 0 2 % CA . 0.3 % PR .	-34	51.80	54.60	2.80	trc	
	tre CP. 0.49. Py; 0% As	- 35	54.60	57.05	2.45	tre	
		- 36	<i>57.05</i>	58.85	1.80	0.005	
		- 37	5885	60.23	/38	tre	
		- 38	60.23	61.70	1.47	0.005	
		-39	61.70	62.85	1.15	tra	
		- 40	62· <i>85</i>	65.17	2.32	tre	
		-41	65-17	67.50	2.33	tru	
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Casing	-40°	
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### Diamond Drill Record



Cochrane Consultants Limited

HOLE No. M5
Sheet No. 1 of 3
Lat. 4291.0

Section. Dep. 2356.9

Date Begun Oct. 27, 1975
Date Finished Oct. 29, 1975
Elev. Collar 1462.8

DEPTH	DESCRIPTION	SAMPLE No.	FROM	то	WIDTH of SAMPLE	AU oz/ton
0 - 23.00m	oub					
23.00m - 24.75m.		M5- 1	23.00	24.15	1.75	0.0/0
	CLV / TA /5E 65° . 5%. QZ PAR CLV . 0%. CA; 0.1%. PY; 0%.					
	AS, PR, CP			· .		
24.75 m - 26.14m	QUARTZ - ALBITE ROCK 35% QZ 2	- 2	24.75	26./4	1:39	0.050
	70° e 20° . 01 CA . 0.11 AS; 0.3 1 PR; tre CP: 5.01 PY					
26-14 m - 49-70 m		- 3	26./4	29.16	3.02	tru
	CLV/GR/CL 80° · 5/2 (1.07 30%)	- 4	29.16	30.43		<del></del>
	QZ PAR CLV; 47. CA; 0.27. PR; 0.2? PY; 0% AS, CP.	- 5 - 6	30·4 <b>3</b> 31· <b>45</b>	31.45 32.88		tre fre
		- 7	32.88	<i>34</i> ·37	·	tre
		- 8 - 9	34·37 36·33	36·33 38·00		tre tre
		- / 0	38.00	40.00	2.00	
		~//	40.00	40.60		tre
		- /2	40.60	43.04	2.44	tre

# PROPERTY Ladner Creek Project Diamond Drill Record

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Reading	Corrected				
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#### . Cochrane Consultants Limited

HOLE No. M 5 Sheet No. 2 43	Lat	Total Depth
Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	A4 02/fbm	
		15 - 13	43 · 04	44.60	1.56	trc	
		-/4	44.60	46 35	1.75	trc	
	·	-/5	46.35	48.25	1.90	trc	
	,	-/6	48.25	49.70	1.45	trc	
49.70 m - 64.85m.	BRECCIATED CHER INTERBEDDED WACKE	-17	49.70	52.47	2.77	0.010	
	8 ARGL . FED / CLV / CL /GR 80°;	-18	52.47	53.90	1.43	tre	
	12% (3130%) QZ PAR CLV & 0°;	-19	53.90	56.05	2.15	3.005	
<u> </u>	3 " CA: tre (01, - tre) AS. 0.21. PR.	- 20	56.05	50.50	2.45	tre	
	tre (0% - tre) CP; 0.3 7. (0.17 - 1.5%) PY.	- 21	50.50	59.20	0.70	0.005	
		- 22	59.20	61.70	2.50	trc	
		- 23	61.70	63.65	1.95	0.005	
		- 24	63.65	64.85	1.20	0.005	
			•				
64.85 m - 79.30 m	GREEN ARGL, GRIEJEN WACKE, MINOR	- 25	64.85	67.65	5.80	0.025	
	QUARTZ - PLBITIE ROCK BED/CLV 80°-	- 26	67.65	70.60	2.95	trc	
	90°: 87. (11- 80%) QZ PAR CLV	- 27	70.60	71.20	0.60	0.010	
	e 0° · trc (010.31.) As: 0.11. PR;	-28		71.95	0.75	trc	
	tre (0%- tre) CP . 0.5% PY.	-29	71.95	72.85	0.90	0.0/0	
		-30	72.85	76.30	3.45	tre	
		-3/	76.30	77:30	1.00	tre	

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### Diamond Drill Record

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	_Cochrane Consultants Limited
	Total Depth

HOLE No. M5 Sheet No. 3 6/3	Lat.	Total Depth
Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Elev. Collar.	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	FROM	то	WIDTH of SAMPLE	OZ/fon	
		M5- 32	77.30	78.20	0.90	0.005	
		- 33	78.20	79.30	1.10	0.005	
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# DIP TEST Angle Footage Reading Corrected Casing - 35'

#### Diamond Drill Record

HOLE No. M 6 Sheet No. 1 of 3 Lat. 4248.1

Section Dep. 2376.3

Date Begun Nov. 1, 1975 Bearing 225° True

Date Finished Nov. 2, 1975 Elev. Collar. 1468.1

\_\_Cochrane Consultants Limited

Total Depth. 67.40 m.
Logged By. D. J. G.
Claim CARO #3 FRC
Core Size BQ W L

DEPTH	DESCRIPTION	SAMPLE No.	FROM	то	WIDTH of SAMPLE	AU oz/ton	
0 - 6.70 m	orb						
6.70 m - 15.20 m	QUARTZ - ALBITE ROCK INTERBEDOE	M6 -1	6.70	8.62	1.12	0.030	
	WACKE & ARGL . BED O' INC	- 2	8.62	10.22		0.11	
	80°. CLV/CL/6R 60° /NC 80°.	- 3	10.22	11.12	0.90	0.040	,
	10%. QZ PAR CLV & 0° . 2%		11.12	12.70	1.58	0.075	
	CA. 0.19. AS: 1.01. PR: 1-c	- 5	12.70	14.72	2.02	0.010	
	CP; 0.3 %, PY	- 6	14.72	15.20	0.48	0.010	· · · · · · · · · · · · · · · · · · ·
15.20m - 28.70 m	INTERBEDDED WACKE & ARGL . BED /	- 7	15.20	16.48	1.28	·l-> .	
<i>,,,</i>	INTERBEDDED WACKE & ARGL : BEN / CLV / GR 80° . 10% (21 20%) QZ	- 7 - 8	16:48	17.87	1.39	·fre	•
	PHR CLV & 0° . 2% CA. 0.2! PR.	- 9	17.87	19.60	1.73	tre	
	0.7% PY, 0% AS, CP.	-/0	19.60	21.45	1.85	tra	
		-//	21.45	23.25	1.80	0.005	
		-12	23.25	25.45	2.20	tre	· · · · · · · · · · · · · · · · · · ·
		13	25.45	26.20	0.75	tre	
		-/4	26.20	27.03	0.83	trc	·
		-15	27.03	28.70	1.67	tre	··-
29.70 - 37.65	BRESCIPTED CHER BED /CIV /CI 75°	- 16	28.70	29.90	1.20	tra	
COIPA- JIWM.	BRECCIATED CHER: BED/CLV/CL 75°.	-17	29.90	30.20		, ,	· · · · · · · · · · · · · · · · · · ·

# DIP TEST Angle Footage Reading Corrected

#### Diamond Drill Record

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Cochrane Consultants Limited

HOLE No. M6 Sheet No. 2 13	Lot	Total Depth
Section		Logged By
Date Begun	Bearing	Claim
Date Finished	Elev. Cotlar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	FROM	то	WIDTH of SAMPLE	AU oz/ton
	tre CA: fre PR; 0.3 1. PY; 01. AS,	M6 - 18	30.20	31.70	1.50	tre
	CP.	- /9	31.70	32.40	0.70	0.010
		_ 20	32.40	33.60	1.20	t ye
		_ 2/	33.60	34.10	0.50	0.035
		- 2 2	34.10	34.99	0.89	tre
		- 23	34.99	37.65	2.66	
37.65m - 47.32m.	INTERBEDDED ARGL & WACKE. BED /CLV	- 24	37.65	37.96	0.3/	trc
	80° . 5% QZ PAR CLU . 0° . 1%	- 25	37.96	40.00	2.04	trc
	INTERBEDDED ARGL & WACKE BED /CLV 80° . 5% QZ PAR CLU . 0° . 1%. CA: 0.1% PR . 1.0% PY; 0% AS, CP	- 26	40.00	40.45	0.45	tre
		- 27	40.45	43.26	2.8/	trc
		- 28	43.26	43.68	0.42	tre
·		-29	43.68	45.00	/-32	0.015
		-30	45.00	45.40	0.40	U·025
		-3/	45.40	47.32	1.92	tra
47.32m - 67.40 m.	GREEN ARGL GREEN WACKE; BED/	-32	47.32	48.05	0.73	tre
	CLV 80°: 51. QZ PAR CLV & O.	- 33	48.05	48.78	···-	
	0.11 PR: 0.41 (01 - 5.01) PY;	- 34	48.78	49.50	<del></del>	0.010
	01. AS CP	- 35	49.50	52.40	290	til
		- 36	52.40	54.50	2.10	tre

PROPERTY.	Leuisel	ling the Oak	<u> Militaj</u> us,
PROPERTY.	المعتمدة المعتمدة	الربيع الإنجازية ال	<u>rijajo</u> ,

Diamond	Drill	Record
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	DIP TEST					
	Angle					
Footage	Reading	Corrected				
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HOLE No. M6 Sheet No. 3 of 3	Lat	Total Depth
Section		
Date Begun	Bearing	Claim
Date Finished	Elev. Collor	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	FROM	то	WIDTH of SAMPLE	AU 02/ton	
		M6- 37	54.50	57.65	3.15	tre	
		- 38	57.65	58.40	0.75	tru	
		- 39	58.40	60.50	2.10	0.010	
		- 40	60.50		0.70	0.065	
		-41	61.20	63.25	2.05	+tc	
	•	-42	63.25	64.00	0.75	0.005	
		-43	64.00	67.40	3.40	+rc	
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# DIP TEST Angle Footage Reading Corrected Casing -40°

### Diamond Drill Record

HOLE No. M7 Sheet No. 1 d. 3	Lat. 4336.7
	2000.2
Date Begun Nov. 13 1975	Bearing 225° True
Date Finished Nov. 14, 1975	Fley Collar 1460 · 2

Total Depth	84.4	m.
Logged By		
Claim CARU	#3	FRC
Cora Siza B	041	

Cochrane Consultants Limited

DEPTH	DESCRIPTION	SAMPLE No.	FROM	то	WIDTH of SAMPLE	AU 02/ton
0 - 25.35 m.	0-15					
25.35 <sub>m.</sub> - 26.71 <sub>m.</sub>	SERPENTINE; C7. QZ . 3 / CA. 0.27.  PR : 0 / As, CP , PY.	M7-1	25.35	26.7/	1.36	0.005
26.71m 40.90 m.	QUARTZ - ALBITE - CARBONATE ROCK,	- 2	26.71	27.54		0.055
	WEAK CL SCHS; BED VAK INC 60°; CLV/CL /GR /SE 50°-60°;	- 3	27.54 28.76	2 8·76 2 9·7/	1.22 0.95	0.025
	13% (3% - 25%) UZ PAR CLV'& 0°; 1% CA; 0.1% A5; 0.4% PR;	-5°	29·7/ 3/·45	3/·45 32·45	1.74	tre 0.020
	tri CP: 0.4% PY	-7 -8	32·45 33.00	33.00 33.85	0.55	0.075 tra
		- 9	33.85	34.86	1.01	0.075
		-10	34.86 36.90	36·90 38·72	1.82	0.050
		-/2	38·72 40·00	40.90	1.28	0.13
40.90 m - 42.54 m.	BRECCIATED CHER WEAK CL SCHS · CLV/CL	- 14	40.90	41-40	0.50	tre
	60°; 201, QZ PAR CLV: 0% CA; 0.11. As; tre PR; 04? PY; 0%. CP	-/5	41.40	42.54	1.14	0-010

## PROPERTY Ladiest Creek Project Diamond Drill Record

### DIP TEST Angle Reading Corrected Footage

		Cochrane Consultants Limited
HOLE No. M7 Sheet No. 2 4 3	Lot	Total Depth
ection	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Fley Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	FROM	то	WIDTH of SAMPLE	AU 02/67
42.54m 59.40 m	INTERBEDOED ARGA a WACKE : BED/	M7- /6	42.54	44.20	1.66	0.005
	CLV / CL /GR 60° INC 80° . 12% QZ	-17	44.20	45.40	1.20	0.005
	PAR CLV a v. tre CA: 0.29. PR.	-/8	45.40	46.25	0.85	0.005
	0.7% PY: 07. AS, CP.	-19	46.25	47.17	0.92	0.005
		- 20	47.17	49.10	1.93	tri
		- 21	49.10	50 85	1.75	0.030
-		-22	50.85	51.90	1.05	0.010
		-23	51.90	53.90	2.00	0.010
		- 24	53.90	54.71	0.81	trc
		- 25	54.7/	57 90	3.19	U. 005
		- 26	57.90	59.40	1.50	0 · 0 0 5
59.40m -	GREEN ARGL MINOR QUARTZ - MLBITE	- 27	59.40	60.75	1.35	0.040
	ROCK BED/CLV 75° INC 85°.	- 28	60.75	62.77	2.02	tre
	37. QZ PAR CLU 2 0°. tri CA.	-24	62.77	63.47	0.70	tre
	tru (01 1/c) AS. tru PR: 0.2% PY.	- 30	63.47	65.95	2.48	tra
	0% CP.	- 3/	65.95	68.50	2.55	trc
		-32	68.50	70.70	2.20	tre
		- 33	70 70	73.95	3.25	tre
		- 34	73.95	76.50	2.55	tra
		- 35	76.50	78.50	2.00	trc

DIP TEST							
	An	gle					
Footage	Reading	Corrected					
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### Diamond Drill Record

		Cochrane Consultants Limited
HOLE No. M. 7 Sheet No. 3 of 3	Lat.	Total Depth
Section	Dep	Logged By
Date Begun	Bearing	Claim
Date Finished	Elev. Collar	Core Size

DEPTH	DESCRIPTION	SAMPLE No.	FROM	то	WIDTH of SAMPLE	1-1 U 02 /toa	
		M7-36	78.50	81.50	3.00	tre	
		-37	81.50	83:11	1.61	tre	
		-38	83.//	84.40	1.29	0.030	
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DIAMOND DRILL HOLE # M 5

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DIAMOND DRILL HOLE # M 6

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DIAMOND DRILL HOLE # M 7

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### CANADIAN DIAMOND DRILLING ASSOCIATION STANDARD DRILLING CONTRACT

THIS AGREEMENT m	ade and entered i	nto by and	between.	PREC	AMB	RIAN	SHIE	LD R	ESOU	RCE	LI	MIT	ED,
11th Floor	Petroleum	Plaza,	9945	- 108	St	reet	, Edm	onto	n, A	lbei	ta		•
		•			•	<b></b>					-		
hereinafter called Compa	any, and SHE	PHERD	ENTER	PRISES	LT	D.,	804 -	470	Gra	nvi]	lle	Str	e <b>et</b> ,
Vancouver,	British Co	lumbia	·						:				
				•	•							٠.	
hereinafter called Contra WITNESSETH: THAT.	ictor							.•				٠.	

WHEREAS, Company is the owner, part owner and/or Operator, of certain properties on which it desires to have a program drilled and completed and,

WHEREAS, Contractor represents that it has adequate equipment in good working order and fully trained personnel capable of efficiently operating such equipment with which it desires to drill for Company:

NOW, THEREFORE, the parties hereto, each in consideration of the promises and agreements of the other, mutually agree as follows:

- 1. WORK TO BE DONE, LOCATION, COMMENCEMENT DATE, AND DEPTH:
- 1.1 Contractor agrees to drill and complete the hereinafter designated program in accordance with all provisions hereof and other conditions and specifications set forth in the Bid Sheet and Job Specifications, identified as Exhibit A attached hereto and made a part hereof.
- 1.2 Contractor further agrees to commence operations for the drilling of the project at the location, on the date, and to the depths agreed upon in Sections 1 and 2 of Exhibit A hereof.
- 2. LABOR, ÉQUIPMENT, MATERIALS, SUPPLIES, AND SERVICES:
- 2.1 All labor, equipment, material, supplies and services necessary to the normal operation or maintenance of the drilling equipment shall be furnished by Contractor. Additional material, equipment, special tools, supplies and services necessary or proper to the drilling and completion of the job shall be furnished at the drill site by the party designated in Exhibit A. Should tools, materials, apparatus or services, other than those set forth herein or designated in Exhibit A be necessary to the drilling of the program, the cost of such tools, materials, apparatus or services and the manner in which they are to be furnished are to be agreed upon by the parties hereto.
- 2.2 Should Contractor purchase for Company at Company's request any materials, supplies, or equipment which Company is obligated to furnish under the terms of this agreement, Company agrees to pay Contractor within (30) days after date of receipt of Contractor's invoice the actual cost of such materials, supplies, or equipment. Contractor agrees to furnish Company copies of suppliers', vendors', or third party invoices covering such materials, supplies, or equipment.
- 3. FOOTAGE RATE, HOURLY RATE, STAND-BY RATE, BASIS OF DETERMINING AMOUNTS PAYABLE TO CONTRACTOR:
- 3.1 Subject to all of the other provisions hereof, Company agrees to pay Contractor for the work performed, services rendered, and the materials, equipment and supplies furnished by Contractor, a sum computed as hereafter prescribed.
- 3.2 For work performed on a footage basis, Contractor shall be paid the rate agreed upon and specified in Section 3 of Exhibit A, multiplied by the linear footage of hole drilled. Such linear footage of hole drilled shall be determined in the manner specified in Exhibit A.
  - 3.3 For work performed on an hourly basis, the hourly rate shall be as agreed upon in Section 3 of Exhibit A.
- 3.4 If it is necessary to shut down Contractor's drill for repairs while Contractor is performing work on an hourly basis, Contractor shall be allowed compensation in the manner set out in Section 3(L) of Exhibit A.
- 3.5 In determining the amount of hourly time for which Contractor is to be compensated, it is agreed that such day work time shall begin when Contractor, suspends normal drilling operations being conducted on a footage basis, and shall include the time required to restore the hole to the same drilling conditions which existed when operations on a footage basis were suspended.

#### 4. ACCESS:

1. 12.

Preparation of drill sites and access roads is the responsibility of the \_\_Company\_\_\_\_\_. The Company shall provide, at no cost to the Contractor, all rights of ingress and egress to all lands that may be required to enable the Contractor to carry out the specified work.

#### 5.: DRILLING SITES:

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 Company representative relating to place and time of drilling.

Company and Contractor respectively agree to comply with all laws, rules and regulations Federal or Provincial, which are now or may become applicable to operations covered by this Agreement and any work order issued in connection herewith. If any of the terms hereof are in conflict with any applicable rule, regulation, order or law of a Provincial or Federal Regulatory Body, the terms of this Contract so in conflict shall not apply and the applicable Provincial or Federal rule, regulation, order or law shall prevail.

### 6. CAVITIES:

In the event that cavities or loose and caving materials or excessive water flows are encountered of a nature so 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 uncompleted holes at the rates herein specified for all footage completed. However, should the Company request that further work be carried out in the hole beyond this point, then the Contractor shall continue work in the hole, but such continuing work shall be at Field Cost rates.

### 7. TIMBER RIGHTS:

The Contractor shall be permitted to cut and fell any timber on the Company's property as may be required in the course of the work hereunder, and the Company shall indemnify and save harmless the Contractor from any assessment for stumpage or other charges of every kind and nature whatsoever.

### 8. LOSS OR DAMAGE:

In addition to all other indemnifying provisions contained herein, Contractor represents and warrants that the use or construction of any and all tools and equipment furnished by Contractor and used in the work provided for herein does not infringe on any license or patent which has been issued or applied for, and Contractor agrees to indemnify and hold Company harmless from any and all claims, demands, and causes of action of every kind and character in favor of or made by any patentee, licensee, or claimant of any right or priority to such tool or equipment, or the use or construction thereof, which may result from or arise out of furnishing or use of any such tool or equipment by Contractor in connection with the work under this agreement and applicable work orders.

Contractor shall be liable at all times for damage to or destruction of Contractor's surface equipment and materials, regardless of how such damage or destruction occurs. Company shall be under no liability to reimburse Contractor for any such loss except loss or damage thereto caused by negligence or wilful acts or omissions of Company or Company's agents, servants, or employees.

Contractor shall not be responsible for damage to the hole on which Contractor performs services nor to property of Company unless such damage shall be caused by or the result of the gross negligence or wilful misconduct of Contractor, its agents or employees, this provision applying to sub-surface damage and surface damage resulting from subsurface damage.

Company shall be responsible for and protect, indemnify and save Contractor harmless from any liability for injury to or death of persons or damage to property (including, but not limited to, injury to the job) growing out of or in any way connected with the use of radioactive material in the hole, unless such damage shall be caused by the gross negligence or wilful misconduct of Contractor, its agents or employees.

Except as otherwise provided, Contractor will indemnify and hold Company harmless from and against all damages and claims for damage by reason of injury or death of persons or damage to property caused by the negligence of Contractor, its employees or agents, in the performance of work hereunder and not caused or contributed to by the negligence of Company, its agents or employees.

### 9. CORE:

The drilling shall be conducted so as to produce as high a percentage of core as the nature of the ground being drilled shall allow. All cores recovered shall be delivered to the COMPANY at the drill site, carefully marked.

### 10. HOLE DIRECTION AND DEPTH:

The Contractor does not guarantee the direction of the hole beyond the collar nor guarantee to drill any hole to any specified depth. The Contractor will however, expend every reasonable effort to complete all holes to the satisfaction of the Company.

### 11. COMPANY REPRESENTATIVE:

The Company will have a representative on site authorized to approve Company charges on a daily basis.

### 12. SECREGY:

The Contractor will not give out any information regarding drill results or permit any access to drill core to any individual other than the Company's representative, except upon specific permission of responsible officials of the Company.

### 13. DISCIPLINE

The Contractor shall at all times enforce discipline and maintain good order among its employees, and shall not retain on the job any person not skilled in the work assigned to him.

Any employees of the Contractor who are objectionable or unsatisfactory to the Company shall be removed from the job and replaced by an employee satisfactory to the Company.

### **14. LIENS:**

The Contractor shall be responsible for, and will pay promptly all costs and charges, incurred by itself for labor, machinery, tools, transportation, and supplies used.

#### 15. PAYMENTS

The Company shall pay Contractor for the work and/or equipment or materials furnished by Contractor at the rate stipulated in the work orders provided for herein, subject to the same being accepted by Company as fully complying with all the terms, conditions, specifications and requirements of this Contract and such work orders; provided Contractor shall have satisfied Company that there are no liens or claims on or against Company or its property by reason of the operations of Contractor hereunder. Invoices will be submitted TWICE monthly. Payment to be made 15 days days thereafter. Interest on overdue accounts will be charged at 1/2 percent per month.

### 16. ECOLOGY AND SANITATION:

Ouring the course of the work, the Contractor shall keep the site of any drilling and camp areas free from accumulation of waste materials, rubbish or garbage and upon completion of the work, shall remove all tools, scaffolding, surplus materials, rubbish and garbage and leave the working and camp site in a clean condition. The Contractor shall observe and comply with all applicable Federal and Provincial laws, regulations and orders relating to prevention of forest fires and sanitation in the bush and shall bear all costs arising from any violation thereof.

### 17. INSURANCE:

At any and all times during the term of this Agreement, Contractor agrees to carry insurance of the types and in the minimum amounts as follows:

- 17.1 Workmen's Compensation insurance in full compliance with all applicable Provincial laws and regulations.
- 17.2 Employer's liability insurance in the minimum limits of \$ 1,000,000.00 \_\_\_\_ per accident covering injury or death to any employee which may be outside the scope of the workmen's compensation statute of the province in which the work is performed.
- 17.3 Comprehensive general liability insurance with minimum limits of \$1,000,000.00 for injury to or death of any one person and \$1,000,000 for any one accident and with minimum limits of \$10,000.00 for property damage.
- 17.4 Automobile liability insurance covering owned, non-owned, and hired automotive equipment with minimum limits \$200,000.00 for injury to or death of any one person and \$200,000.00 for any one accident and \$200,000.00 property damage.
- 17.5 All such insurance shall be carried in a company or companies acceptable to Company and shall be maintained in full force and effect during the term of this Agreement, and shall not be cancelled, altered, or amended without ten (10) days' prior written notice having first been furnished Company. Contractor agrees to have its insurance carrier furnish Company a certificate or certificates evidencing insurance coverage in accordance with the above requirements and, when requested by Company, to furnish certified copies of all said insurance policies.

### 18, RIGHT TO VACATE:

Upon completion of the work herein contracted to be performed the Contractor shall have the right to remove within a reasonable length of time all temporary buildings and other fixtures including trade fixtures, machinery, equipment and appliances placed by the Contractor upon such lands.

### 19. DISPUTES

This Agreement and any dispute arising hereunder shall be interpreted and determined in accordance with the laws of British Columbia

In the event there is a conflict between the provisions hereof and any papers or documents, which may have been executed or passed between the parties hereto in connection with the subject matter hereof, it is understood and agreed that the provisions hereof shall be controlling. It is expressly understood and agreed by the parties hereto that no provision of any delivery ticket, invoice or other instrument used by Contractor in setting forth the operations conducted hereunder shall supersede the provisions of this Agreement.

### 20. FORCE MAJEURE

Neither Company nor Contractor shall be liable to the other for any delays or damages or any failure to act due, occasioned, or caused by reason of Provincial laws or the rules, regulations or orders of any public body or official purporting to exercise authority or control respecting the operations covered hereby, including the use of tools and equipment, or due, occasioned, or caused by strikes, action of the elements, or causes beyond the control of the elements, or causes beyond the control of the parties affected hereby, and delays due to the above causes, or any of them shall not be deemed to be a breach of or failure to perform under this Agreement.

### 21. NOT ASSIGNABLE:

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.

### 22. MAILING ADDRESSES:

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

11th Floor Petroleum Plaza
9945 - 108 Street
Edmonton, Alberta

or to the Contractor by registered letter addressed as follows:

804 - 470 Granville Street Vancouver, B. C.

This AGREEMENT may be altered only by written consent of both parties hereto.

## 23. TIME IS OF THE ESSENCE:

Time is expressly declared to be the essence of this Contract. If either party hereto defaults in the performance of this Contract of work commenced under work orders as provided for herein, the other party has the option to terminate this Contract and the work order involved.

WITNESSES:

WITNESSES:

WITNESSES:

PRECAMBRIAN SHIELD RESOURCES LIMITED

11th Floor, 9945 - 108 Street

Edmonton, Alberta

Company

By:

SHEPHERD ENTERPRISES LTD.

804 - 470 Granville Street

Vancouver, B. C.

Contractor

By:

MITNESSES:

By:

WITNESSES:

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SHEPHERD ENTERPRISES LTD.

Contractor

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# **BID SHEET AND JOB SPECIFICATIONS**

•	
•	11th Floor Petroleum Plaza
	9945 - 108 Street
	Edmonton, Alberta
Shepherd Enterprises Ltd.	
804 - 470 Granville Street	
	•
Vancouver, B. C.	
ntiemen:	
We solicit your bid to drill and complete the hereinaft	er designated project.
iired. If you desire to submit a bid, please complete this in	cessary to identify the project, the quantity, and size of core instrument in every respect, execute the original and two copies,
I return to our office at	Total day
	Very truly yours,
	Trecombinin Shield Mesouces A
•	
	Carl Comm
•	Company
INTRODUCTION:	
Minimum footage 1,500'	No. of drills ONE (1)
Starting date October 1, 1975	Completion date As soon as possible
Location (attach map) LADNER CREEK -	HOPE, B. C.
	1) about marifu
Access — all weather road ( ), winter road ( ), aircraft	( ), others specify
DESCRIPTION OF WORK:	
th BQWL tools producing 1 7/16"  800 feet, and minimum depth shall be gegrees. Meas	d at locations specified by the Company. A total minimum foots otage may be extended by mutual consent. Holes shall be driller diameter core. Maximum depth of any hole shall not exceed 150 feet. The Contractor will not be called upon to drill surement of all holes shall be taken from the top of the casing ed, such drilling shall be performed only upon such conditions ment of such drilling.
SCHEDULE OF RAFES:	•
The Company agrees to pay the Contractor for foota	ge drilled and other services performed as follows:
(a) Coring at Bedrock	_
Depth Intervals	BQWL Size Size
n _ 500 Ft \$	9.75 /Ft. S/Ft.
500 – 1000 Ft. \$ _1	10.50 /Ft. \$/Ft.
1000 1500 E+ S	/Ft. \$/Ft.

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			•					
(P)	Casing	of Overburden						
		•	Depth Interval 0 - 50 Ft. 50 - 100 Ft. 		\$_9.75_ \$			
(c)	The fo	ollowing services v	vill be provided o	on an operat	ing Field Cost pl	us <u>15</u> %	basis.	
	1.	Casing of overbur	den over 50	ft.				
	2.	Reaming and sett	ing casing for bo	rehole reduc	tion, borehole st	tabilization, and cor	ntrol of return water.	
		Drilling caved or I		•				
	4.	All cementing op	erations excludin	g setting tim	e but including	drilling of set ceme	nt.	
	5.	Wedging of boreh	oles,			<b>~</b> .		
•	•	Supplying water to from borehole counder freezing co	llar under non-fr	water suppl eezing condi	y over <u>2,000</u> tions and <u>1,0</u>	ft. lateral and/or_ 100ft. lateral and/o	250 ft, vertical lift r200 ft, vertical lif	lt ft
	7.	Recovering pipe a	and/or casing at (	Company's r	equest.			
	Where	operating Field (	Costs are defined	as:				
	OPER/	ATING FIELD C	osts.				•	
	Labou	r (including Supe	rvision)	9	. 75 pe	er man hour.		
	Drill,	8.00/hr_pu	imps and service	vehicles incl	uding normal op	erating repairs,	N/A per drill h	our.
	Tracto	or	\$1,5	00.00 p	er month	er hour.		
	Water	truck (excluding	driver)	N/A	ре	er hour.		
	Pump	s for water supply	′					
		Туре		•		Operating hour	ly Rate	
		42	0 Bean Ro	yal		1.00/h	<u> </u>	
	Suppl	lies consumed or o	damaged beyond els, etc. Site repl	use due to s acement val	ite conditions in	ncluding diamond a	rticles, mud ingredien	ıts,
(d)	The fo	ollowing services	would be provide	ed on a non-	operating field c	ost plus 15	% basis.	
	1.	Setting time for a	cement.			•	,	
	2.	Delays caused by	Company.					
	3.	Travelling time o	f crew in excess	of 30	minutes pe	er man shift (Labou	r only).	
	Where	e non-operating fi	eld costs are defi	ned as:				

# NON-OPERATING FIELD COSTS Labour (including supervision)

Drill, pumps and service vehicle 6,50 per drill hour.

## (e) Testing of borehole

The Contractor, when instructed so to do, shall take any clinometer dip tests desired by the Company. The Contractor's charge for such test shall be at the rate of 28.00 feet of drilling at the depth where tested.

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### (f) Transportation and moves

Mobilization and Demobilization will be charged at a flat rate of \$800.00.

Moving between holes shall be charged at field cost plus 15% over 8 Rig Hours.

If Cat is used for building roads and site, it shall be charged at \$26.00 per hour.

(g)	Room and board for Contractor's personnel will be provided by Contractor
	Contractor will provide meals for up to $N/A$ of Company's representatives at a price of $N/A$ per meal.
	Room and board will be provided by Company to Contractor atN/Aper man day.
(h)	Core boxes will be provided by <u>Company</u> Contractor's rates for Core boxes on site
	Nominal core length Core Size Rate
	BQWL \$2.75 ea.
(i)	Core Splitter to be supplied by Company
	Contractor to supply core splitter atN/A per month.
(j)	Controlled Drilling
	The Contractor agrees to use controlled feeds when requested by the Company. An extra charge per foot will apply to all such controlled feed drilling as follows:
	Controlled drilling on $\frac{N/A}{N/A}$ Feed at $\frac{N/A}{N/A}$ extra per foot extra per foot
(k)	Standby Rental
	It is agreed that, at the completion of the present active drilling program, the Company may retain the Contractor drilling equipment at the drill area for a rental rate of $N/A$ per month, per drilling unit. The standby renta charge will cease to apply upon commencement of continuous drilling Program, or, on the giving of a written noti to the Contractor by the Company that the drilling equipment is no longer required.
(1)	Equipment Repairs
	If it becomes necessary to shut down the Contractor's equipment for repairs while the Contractor is performing work on an hourly basis, Contractor shall be allowed compensation for such repairs at the appropriate rate.  The number of hours for which Contractor is to be compensated shall be limited as follows:
	For any one repair job N/A hours.

(m) Specjal Agreements

Date: September 17, 1975

In response to the above request our bid for the drilling of the project hereinabove described is submitted as set forth above.

SHEPHERD ENTERPRISES LTD. 804 - 470 Granville Street Vancouver, B. C.

Contractor

E. Tessmer, General Manager

# SHEPHERD ENTERPRISES LTD.

# INVOICE NO. 0090 PERIOD 1-15 OCT, 1975

		INVO	ICE NO. OC	190 PERIO	OD 1-15 OCT,	1975	
						voli	ember 13, 1975
DRILLING							
HOLE #	FROM Metres	TO Metres	Feet	TOTAL FOOTAGE	· PRICE	TOTAL	•
M-1 M-2 M-3	0 0 0 19.8	49.7 68.5 15.2 29.5	163 224 50 32	163 224 50 32	\$9.75 9.75 9.75 9.75	\$1,589.25 2,184.00 487.50 312.00	
							\$ 4,572.75
TRAVELLIN	NG TIME						
56 Man Ho	ours @ \$9.	.75/hour				٠.	546.00
CAT TIME	·						•
36 Hours	@ \$26.00/	/hour					936.00
NON-OPERA	ATING FIEL	D COST					
Move M-1							
HOVE II-1	8 man ho	ours @ \$9. ne hours @	.75/hour 9 \$6.50/ho	= our =	\$ 78.00 13.00		
	Plus 15%	%		٠.	\$ 91.00 13.65		
		·			·	\$104.65	
Move M-2	to M-3	•					
•	14 man h 3 machi	nours @ \$9 ine hours	9.75/hour @ \$6.50/h	our =	\$136.50 19.50		
	Plus 15%	6			\$156.00 23.40		
						\$179.40	284.05
OPERATING	FIELD CO	OST					
	PULLING	CASING M-	.]		·		

Plus 15% 11.48

\$ 58.50 16.00 2.00 \$ 76.50

\$ 87.98

6 man hours @ \$9.75/hour 2 machine hours @ \$8.00/hour 2 pump hours @ \$1.00/hour PULLING CASING M-2

	2 man hours @ \$9.75/hour 1 machine hour @ \$8.00/hour 1 pump hour @ \$1.00/hour	=======================================	\$ 19.50 8.00 1.00			
	Plus 15%		\$ 28.50 4.28			
				\$ 32.78		
	DRILLING CASING M-3				٠	
	4 man hours @ \$9.75/hour 2 machine hours @ \$8.00/hour 2 pump hours @ \$1.00/hour	= .	\$ 39.00 16.00 2.00		•	
• •	Plus 15%		\$ 57.00 8.55			
				\$ 65.55		
<b>i</b>	•				\$	186.31
					\$	6,525.11
LESS CHAR	GES TO CONTRACTOR'S ACCOUNT					
	Gas 235 gals. @ 0.75/gal. Diesel 270 gals. @ 0.55/gal.	=	\$176.25 148.50			
		>	•	•	\$	324.75
	NET INVOICE				\$	6,200.36

# SHEPHERD ENTERPRISES LTD.

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Period 16-31 October, 1975

November 13, 1975

DRILLING
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HOLE #	FROM Metres	TO Metres	Feet	TOTAL FOOTAGE	PRICE	TOTAL
M-3 M-4 M-5	29.5 0 0 24.4	100.6 68.5 15.2 79.3	330 225 50 260	233 225 50 180	\$9.75 9.75 9.75 9.75	\$2,271.75 2,193.75 487.50 1,755.00

\$ 6,708.00

# TRAVELLING TIME

113 Man Hours @ \$9.75/hour

1,101.75

# CAT TIME

**1** 

54.5 hours @ \$26.00/hour

1,417.00

# NON-OPERATING FIELD COST

Move M-3 to M-4

<b>18</b> Man Hours @ \$9.75	_	\$175.50	-
<b>4.5</b> Machine Hours @ \$6.50	-	29.25 204.75	
Plus 15%	-	30.71	\$235.46
Move M-4 to M-5			
4 Man Hours @ \$9.75	-	\$ 39.00	
1 Machine Hour @ \$6.50	-	$\frac{6.50}{45.50}$	•
Plus 15%	-	6.83	\$ 52.33

Move M-5 to M-6

16 Man Hours @ \$9.75 4 Machine Hours @ \$6.50	<u>-</u>	156.00 26.00 182.00	
Plus 15%	-	27.30	\$209.30

497.09

# OPERATING FIELD COST

	PULLING CASING M-3					
	9 Man Hours @ \$9.75	<b>-</b> ,	\$ 87.75			
	3 Machine Hours @ \$8.00 - 3 Pump Hours @ \$1.00 -	- -	24.00 3.00			•
	Plus 15%	•	114.75 17.21			
	1143 15%		17.21	\$131.96		
	PULLING CASING M-4					÷
	4 Man Hours @ \$9.75 . 2 Machine Hours @ \$8.00 .	<b>-</b> .	\$ 39.00 16.00		•	
	2 Pump Hours @ \$1.00	- -	2.00			•
-	Plus 15%	_	57.00 8.55			
•	1143 15%	-	0.00	\$ 65.55		
	DRILLING CASING M-5 50-80	FEET				
Ę:≰	12.8 Man Hours @ \$9.75 - 6.4 Machine Hours @ \$8.00-		\$124.80 51.20			
	6.4 Pump Hours @ \$1.00	- -	6.40		4	
	D7 750		\$182.40			
•	Plus 15% PULLING CASING M-5	•	27.36	\$209.76		
	6 Man Hours @ \$9.75	-	\$ 58.50			
	3 Machine Hours @ \$8.00 -	-	24.00			
	<b>3</b> Pump Hours @ \$1.00	-	3.00 85.50			
	Plus 15%		12.83	£ 00 22	•	
		•		\$ 98.33		<sup>3</sup> 505.60
			•			\$10,229.44
FSS CHARG	ES TO CONTRACTOR'S ACCOUNT			•		
EE33 CHARGE						•
	Gas 225 gals. @ 0.75/ga Diesel 360 gals. @ 0.55/ga		_	\$168.75 198.00		
•	bieser 500 gars. e 0.55/ga	u 1 .	•	150.00		366.75
	NET INVOICE					\$ 9,862.69
	1101 2111 2 2 7 6		•			

## PRECAMBRIAN SHIELD RESOURCES LIMITED

11TH FLOOR, PETROLEUM PLAZA, NORTH TOWER 9945 • 108 STREET, EDMONTON, ALBERTA T5K 2G6 TELEPHONE (403) 429-0785

## SHEPHERD ENTERPRISES LTD.

INVOICE NO. 0102

PERIOD 1-15 NOVEMBER, 1975

12 December, 1975

## DRILLING

NO HOLE	FROM Metres	TO Metres	Feet	TOTAL FOOTAGE	PRICE	TOTAL
M-6 M-7	0 0 25.6	67.4 15.2 84.4	221 50 277	221 50 193	9.75	2,154.25 487.50 1,881.75

\$4,524.00

## TRAVELLING TIME

140 man hours @ 9.75/hour

1,365.00

## CAT TIME

49.5 hours @ 26.00/hour

1,287.00

## NON-OPERATING FIELD COST

Move M-6 to M-7

Less: 20 machine hours 80 man hours 32 man hours

Charge: 12 machine hours 48 man hours

48 man hours @ 9.75 = \$468.00 12 machine hours @ 6.50 = 78.00 546.00

Plus 15% 81.90

627.90

# OPERATING FIELD COST

Drilling Casing Hole M-7 50-	-84¹		
8 man hours @ 9.75 4 machine hours @ 8.00 4 pump hours @ 1.00	- 78.00 - 32.00 - 4.00		
Plus 15%	114.00 17.10	131.10	
		101110	
Pulling Casing Hole M-7		· .	
6 man hours @ 9.75 3 machine hours @ 8.00 3 pump hours @ 1.00	- 58.50 - 24.00 - 3.00		
Plus 15%	85.50 12.82		•
F145 13/6	12.02	98.32	<b>.</b>
			\$ 229.42
MOBILIZATION AND DEMOBILIZATION		•	800.00
	<b>V</b>		\$8,833.32
LESS CHARGES TO CONTRACTOR'S ACCOUNT			•
Gas 190 gals. @ 0.75/gal. Diesel 225 gals. @ 0.55/gal.		142.50 123.75	
			266.25
NET INVOICE		•	\$8,567.07

; Phone Merritt 378-2186

# H. E. SANDERS LTD.

In Account With

LOGGING

CONSTRUCTION

Box 80 - Lower Nicola, B.C.

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