

# DIAMOND DRILLING



42A165W0061 21 MOODY

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IOWNSHIP	:	Mo
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REPORT No.: 21

WORK PERFORMED BY: Utah Mines Ltd.

CLAIM NO.	HOLE NO.	Footage	DATE	Note
L 610471-72 L 610471 L 610469	JL-85-B1 JL-84-B2 JL-85-B3	887' 561' 819'	Jan/85 Dec/84 Jan/85	(1) (2) (3)
		2267		

Notes:	(1)	<b>#85-85</b>
	(2)	#86-85
	(3)	#63-85

	OLE N ASINC OORD ICLIN	IO.	AR EL S: Le	5 · EV,; 52E, 104 55	31 4'a 32+8 TH C	-9- 15 N 5 R:D)	PROJECT: JIM'S LAKE GROUND ELEV.; DATE STARTED: JANJARY 9, 1985 N. E. DATE FINISHED: JANJARY 14, 1985 BEARING: 360* TOTAL DEPTH: 887'	PAGE NO: 1 REF. TO CLAH SCALE: 1"+ 1 LOGGED BY::	о и соян о' Д. М	F I IER: 41voj	I R				ı
SECTION	LORITE	RELATE ARBOWATE	THER	RACTURING	MINERAL	GEOLOGY	COMMENTS: DIP TESTS (CRARECTED); @ 300,56°; @ 500',51°; @ 700', 51°; @ 887'.46° - N.8. LOST 40' BW CASING DOWN HOLE ( & NO PLASTIC PIPE CASING) DESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE 100 %	UL PHIDES	DRILLING	% CORE ECOVERED	CORE SIZE	SAMPLE	% REC'Y	ESIT
- 280'	а U		0	<u> </u>		0.0.0.00 0.0.00 0.00	(SEE ATTATCHED TYPED NOTES)	(LOG 20 SCALE) 	~ ~	-	Ē			0.0	
- 290'-	W E A K	W E R			• • • fy	00 m.	- sch. @ 60° to c.a. - gtz-cale vn <u>290'-296.6' CARBONIATIZED ANDESITE</u> - wk remnant xilline tat. - henatized, vuggy - sch. @ 60°	0.1	0.52	290'	1007.	BQ	210'	1007.	
- 300'- - -	M O D E R A	VERY ST			a21	* / C. &	-lecally intensely carb <sup>e</sup> <u>Elsis-errors</u> <u>ChroomAttized Andesite to BASALT</u> - hen halos on tines - carb un = 57 diss inten 170 fg - grow usig carb (colc) iveins' 11 sch. z 1070 vsig diss inte & 1070 vsig diss fy - gc un - strongly chiz zone	0 > 0 1.5	09	<u>303</u>	100%		-/	1007	
- - - - -	T E T S	KONG - CALC			en R Rie		- carb. bands ë 5% nte. 57 Ry - carb. Ry vein - grav grandar calc. rhsë 570 Ry - calc rh e 5% nte. 2% Ry	0	<i>L</i> 1 <sub>0</sub>	314	1007		308 314	1007.	
- - - 320' -	- 2020				2		- locally strongly chloritized - irrag chlalt. bands lends fragmental appearance to rock - calcite bands - calc vn z s70 mte. z70 Ry	0	1%	312	10075		/ 317	1007.	
- - - - - - - - - - - - - - - - - - -	M O A	M o D	WK. C	11 12 1			- tuffaceous interbed = 27. mte - thin hem rich silicified bands cub (calc) blebs (luff frage?) to 25% <u>328:5-344</u> <u>CARBONATIZED BASALT TUFF</u>	0 		321		•	324 328.5 330'	1007.	
- - - - 340'	E R A T E	E R A T E	1 L 1 C.	\ 7 2	. Ry		-ry shiched ephes cale uns	1 0.1 1 0.2	0.257	<u>337</u> ' 70 347'	1007		325	100%	

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н	OLE	NO.	1r.	85 ·	BI			PROJECT: JIM'S LAKE	PAGE NO: 2	0	F 11					
c	ASIN	G CO	LLAR	ELE	EV,;	4'a.	g.	GROUND ELEV.; DATE STARTED: JAN- 09, 85	REF. TO CLA	I CORN	ER:					
C	00R(	DINA	TES:	L52	E, 3	2+8	5 N	N. E. DATE FINISHED: JAN 4.85	SCALE: 1":	10'						r
IN	ICLIN	ATIC	DN:	- 5	<b>5</b> *	·		BEARING: 360* TOTAL DEPTH: 887	LOGGED BY:	D. M	41 V 0	R				
	AL	TER	ATIO	)N				COMMENTS:	AVE CORE	T	T	Γ				ESTI-
z		İ			Ž	٩٢	Ϋ́		REC'Y / HOLE	ES	ہے ا			ب س ا		MATED
10	Ju	<b>"</b>	N N		3	a B	ŏ				N N	R R	Ч Ч Ч Ч Ч Ч	۳ ۲	ĽΩ <sup>2</sup>	
ы С С	ORIT	ç	Nore	HER	AC	N	0 E O		MAG. SUS.			000	Si	SAN	A di	
	1 H	SE	5	10	u L	-		DESCRIPTIVE GEOLOGY	(LOG 20 SCALE)	Sc		ů ů		=	83	
- 340'	M		M	WK.	7	· Cp	7	basail hff	10.2	9	$\frac{1}{2}$	<b></b>	2	- ·		
F	0 D		0 P	512				19. vhy diss mile		0.25%			50			
F		1			1	:4PY	ÿ	- CAIC VINS 344-368 CARBONATIZED ANDESITE TO BASALT TUFF	• 0.8		1	100%				
F	M		0			.41	1	Fomall calce minor ghe "frags" elongate is foll to 1070 rock .			341	<b>_</b>				
	D		E		X		50.9		1							
- 550.	Ē		A		6				°.3							
E	K		E	ĺ		1	2					100%				
F	T		т			.p.		miner diss mtc. to 2-3% in places	<b>)</b> • 14	0.25%						
-	E		0		2	1		-hen halo around calc. mte filled trac.			357	<b> </b>				
- 360'-			S T		/											
-			R O		$\mathbf{y}$	P <sub>u</sub>	976		1							
F			Ğ			Ĵ	Ø.	- V. kay rich inhered				1007.		363		
F					4		1	locally appears v. classic (wacke)	- 0.2						7	
ţ				-	2	-		C. 1 44 C (1. 1. 1. 348-374.7 ALTERED ACCIONERATIC ANDERITE	. 0.8		361	┠╼╾┥		368	100 1	
- 370'-	- 8		S T	s L	¥!	P.	Z	carphiand ( gray hard carb in chit (OR SLUMPED, BRECCIATED ANDESITE TUFF)	• 0.8					14		
F	To		R	ij		cry		-frags z nte : sulph.		1%		1.7		372'	1001.	
F	R		Ĝ	ì	3	· <u>^</u>		third gray carb interbeds z with the				100 1		11.	1002	ĺ
E		, E	1		$\overline{\Lambda}$		11	cale type with frags 314.7 - 105 CARBONATITED ANDESITE TO BASALT TUFF	0.2		• • • ·					
E	E	E	м	ľ		·		locally coul-gtx 'trags' to 30%			<u></u>					
- 380°	A	۱ ۲	о Ъ		1	ò			• 0.2					7.4.1		
Ł		Ĥ	ŧ		1	·')		aphanitic phase.						- 201		
F		Ň	Â		4	2	A	· alz trags (breccristed vein)				100%			100%	
		2	T E		1	2				0.5%	387			386		
È.		0 N		ł	Э́л		'n	flocally disconter to 57.						388	1002	
- 390'-	"   E	E		ł	1/:	•		- bd kinked yez.	.0.2							
F	A				4	ß		- cherr inrelocals of zone of infense silicitication - gray carb lich, mile-fly rich interbeds				1007.		392		
F	$\left  \hat{i} \right $				$\langle \cdot   \cdot$		Ŋ	call hedly a 27 me, miner Course.	• 2.1					395	1007.	
E					74	cont		- mte-le-ley bearing call bade			397'			376	1007	
400			١			1.1	1		. 0.6		To 407'	1002		- 3 (K		

н	DLE N	10.	<b>1</b> ∟ 8€	5 • B	1			PROJECT: JIM'S LAKE	PAGE NO:	30	F II					
C/	ASING	S COL	LAR I	ELE	V,:	4'0	·.g.	GROUND ELEV.; DATE STARTED: JAN-09-85	REF. TO CLA	IM CORN	ER:					
с(	DORD	INAT	ES: 1	. Sz	ε. :	32+8	IS N	N. E. DATE FINISHED: JAN. 14.85	SCALE: "	· 10'					•	1
IN	CLIN	ATIO	N:	- 5	5			BEARING: 360° TOTAL DEPTH: 887	LOGGED BY:	· D. A	101 00	- R				
z	ALT	TER.		N	5NG	AL	G۲	COMMENTS:	AVE CORE REC'Y / HOLE	DES	9			r ør	× + 7	ESTI- MATED
SECTIO	CHLORITE	SERICITE	CARBONATE	OTHER	FRACTUR	MINER	GEOLO	DESCRIPTIVE GEOLOGY	MAG. 505. (LOC 20 5CALE) Q5 1.0 5	SULPHI	DRILLI	% COF RECOVEI	CORI SIZE	SAMP	% REC SAMP I	
- 100 - - - -	WEAK	M O D	N O D			دوم ب ب		- cale uns - debmilite interbeds i large <u>405'- 410' ALTERED, ACGLOMERATIC ANDESITE</u> (DA SLIMPED DEFECTATED INTERATED FOR THE CONTRACTOR TO FEED)	, 0.6 , 0.2 , 0.2	0.51		100%	Ba	425'		
- - - - 410'	Ť R.	K.	Ť R.			R		eling, trags to 25 b. E 257. gray hard cale-gta-ser trags. in saft chloritic groundmass. - dolomitic interteds.	0.1	1%	-701.			410	1007.	
	WEA		M O D		 !	cf3	14 Miles	this cak seans to 207. All and an and and a second	- 0.1			1007.				
- 420' -	T		E R A T		/	, Pa		- 1010 small call. specified note mayo	       		417					
	M D E		C.		~			- 6d locally kinked, slumped appearing	       	0.257		100%				
- - 430'	A T E				YY Y	Print	シアノ	locally strongly frac, z this sile alt helps > glz-ade uns & this carb- Ry rich interbeds	ł ł • D.; ł		. 427			428' 1777 431	1007.	
	51	×			<i>i</i> , <i>i</i> ,	ີ. ໃ <sub>ນ</sub>	1.1.1	- gh- cale uns. - strong schristigs: () 45° 55° <u>434'- 512' SHEAMED, ALTERED DIORITE (WITH ANDERITE (TUFF?) INTERCEDS)</u> - attacede - fame uns	1 1 0.1 0.1			100%		<u>435</u>	1007	
- - - - 440'	. 8020	o D E R	Y. W E		$\langle \rangle$	Ŗį.		- finer grained chill margin'. locally moderately carba. . cale vn G and tuff: interbeds	( ; ; ;	RACE	-931			42		
	A L T. OF	T E	A K, P		1	Ry R		r pred mg. E 70% plag. 3.7. dl? fmegs Landcsite fulf interbed -gc. Vn	- 0.1	To		100%				
- - - 450'	FLARO		A T C H		/ /			- fant chi serms land 'mottled' appearance to rock - andesite full interbed	- 0.1	0.25	441	-				
	RAGS -		5		1] ]]			- qc vns	1 • 0-1			1007				
					1	•	Ż	ghe-cale va.	. 0.1		457 To 467	1007,				

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c	ASING	5 COI	LLAR E	LEV	.; 4	'a.g.	GROUND ELEV.; DATE STARTED: JAN- 09- 85	REF. TO CLAIN	CORN	ER:					
6	OORC		TES: L	-521	E , 32	+ 85	N. E. DATE FINISHED: JAN. 14.85	SCALE: 1"=	10					,	1
	NCLIN	ATIO	)N: -	- 55	•		BEARING: 360* TOTAL DEPTH: 887	LOGGED BY:	D. M	-Ivo	R				
	AL	TER	ATION	1	T		COMMENTS	AVE CORE	1	<u> </u>	T	[	[	T	EST
					2	<b>_</b>		REC'Y / HOLE	S		0				MATED
ŏ			2		AA	00			l ä	NN	E E E	wω	AL A	.≻ I	
10	u L	i TE	VNO	∡ E	ΪĽ	ត្ត		MAG. 505	ME	156	182	SIZ	TER	ũ di	
S	Log	ERIC	ARB		ĮΣ	อ	DESCRIPTIVE GEOLOGY	(LOG 20 SCALE)	Sul 1	δź	%ü		°.Z	%§	
- 460	5	~	0	<b>_</b>	-			0.5 1.0 5 1c							
	5	м	1	K	( ] . P.		- and tuff interted 434-512 CONT. (SHEARED, ALTERED DIORITE)	0.1	[			BQ			
ŀ	TR	0		1	1				ł		100%				
-	0	E	W	1		1	- and. full interled	• 0.1	Т						
	G	8	E				- should entrefree villing into langely overwinder		R	461	<u> </u>				
470'		- F	A K.	Ĺ		1	- calc- fispor va		c						
1.0	L L	٤				1	~ calc gta un		E						
ł	T	A	Å	ľ	"4		a and tuff interbods		Ť		1007.				
-	0	Ŧ	T	1		1		• 0-1	°						
E		0	н		·  ·	2	very mottled appearing. & xilline tat while overprinted by chl-ser-cale bands		0.252	411'			471'		
F	E	۶	9			2	- gtz-cale vn	1					1/1	100%	
- 480		F				VZ.	-1 hill what and	• • • •					481		
F	0	P		ľ	Py;	Ø.		<b>!</b>			1007.				
F	A	R		1		1	er vas	• 01					401		
-	5				R	1.	- strongly sheared. Sch Zone			487			41		
F , .				V	1	Te.	10.						46B	100 %	
- 490						125		+ 0.1	0.57						
-				K	1	1	- cake vn		1.		1007.				
- 				1	P.	5	- calcite vens to loto of lock I anderste intertion	• 0.1							
-				1	ן אין 	Z.	21 1			497			40.0'		
F.,				12		$\times$	S locally veg						418		
- 500	111			ľ	1	Ì	s and the interaction of the state	• 0.1					·	100%	
				12		[]					1007.		502		
-				X		6	- strengly sheared, ech. Alline that overprinted by chl-ser alt.	10.1							j
F.				1	4.	1	- vvcq. locally i 5% garnets.		0.5 10	507					1
L				11	. Py	K									
510'	11		↓ I	ľ		区		• • 1							
F	H			+	<b>b</b>		SIZ' SZA' ANDESTE TUFF	. 0.1			1007.				
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ի Ի	E		W E			1	- qhe vas	1 The second sec	0.5%	517					
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520				1	1~	1		1 0.1		527	,	T			

	IOLE I	NO. G COL	JL- LAR	BS- ELE LS2	· Bi V., 4	4'a 12+1	.g. 85 N	GROUND ELEV.; N. E.	PROJECT: JIM' DATE STARTED: DATE FINISHED:	5 LAXE JAN-09-85 JAN-14-85	PAGE NO: 5 REF, TO CLAIM SCALE: 1	OF CORNI	: 1) ER:				3	1
	NCLIN	ATIO	N:	- 55	5 •			BEARING: 360*	TOTAL DEPTH:	887	LOGGED BY:	Ъ٠	Met	VOR				
TION	AL	TER	ATIC	N	URING	ERAL	1.067	COMMENTS:			AVE CORE REC'Y / HOLE	* HIDES	LING	CORE VERED	ORE I Z E	MPLE	REC'Y. P. INT.	ESTI- MATED
SEC	CHLORITE	SERIGITE	CARBONI	OTHER	FRACT	NIN	GEO		DESCRIPTIVE	GEOLOGY	MAG. SUS. (LOG 20 ECALE) 0,5 10 5 10	SULP	DRI	ь КСО К	ΰø	SA	% R SAM	
F 320	W K		W K	5		Ry		- Va" cherty silicified bands			j 0.1	0.57			8Q 	521	100%	
	NIL	Moj	NIL	STR SIL	- 11 4			- by chill margin a state	524- 525.4 THINLY BEDDED, 525.4- 540 V. STRONLY ALTE	SILICIFIED AND TUFF OR ARGULITE RED, SHEARED, DIORITE TO, GABBRO	0	0.757.	527'	1007.		524 525 1	100%	• 1 Zh
- 530	TRONG	V. NJ E A X	H02 1	ት የ ነ ጊ ለ		Ro Pij		- cale vn z 270 fy-80. H. Cyy - andesite interflow - ghe- carb vn			0	0.25 <sup>%</sup>				528' ////	100%	
• • • • •	CLT FMAGS	A LT FMAG	N - 1	LTOFPLA	SAL AN		のないで	- my sheared divite. - cli bands - gla-calc-epid vn -			• •	0.25L	537	100%				
- 540 -	K) E A K	5	WEAX.	0	1	R		- wikly full @ 55° - 3" chl <sup>2</sup> shear. - 61 cale un - Fg diorite dykelet - Fa diorite dykelet	540-559.8 WEAKLY CARES	ANDESITE THEF (WITH DORITE DYKELETS)	1 1 1		547	1007.				
- 550 -	- H E A		5 A-MA UA		/	P.;;		- diorite dykelet - strongly chl? shear zone č 2 - my diorite dykelet	7. Py		1 1 1 • • • • 1 1	0.257		1007,		550 111 111 555	1007	
	K		L C			P4	5	- carb. fopal vns.					<u>557</u>					
- 560 -	S TR A	V. WE		He-DA		é.	15,000	- my text overprinted by sch & related chl-ser hit.	559.8- 567.3 SHEARED, ALTI	ERED DIORITE TO GABBRO	• 0 • 1	T R		1007.				
	T.F.M.W.K	A K	M	۲ ۹ ۱	/ ]. ]	- R - Rj	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		547.3-570-5 CARBONATIZE	D ANDESITE TUFF	• 01 • 01 • 01	Ē	561					
- 570 - - -	ST ST	MOD	D Nil	B	1 11 11/1	•.		- v. thinly (edded. v. soft, thinly bid, dark brown (bio rich?) any or mode biff	570.5'- 572' STRONGLY ALT. N 572'- 581' DARK BROWN, THIN OR EPICLASTIC	ND ASH TUFF OR EPICLANTIC AGE, EQ. LY BEDDED ALT. INT: ASH TOFF ARGILLAGEOUS EQUIVALENT	0	TR T R	4	1007.		512'	1007.	
	~~~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			0 ?	1/1/1/	P. 1.1.	1	- collecte searns to 107. - collecte searns to 107. - go vn	io fe .		           	2 E 37.	577' To 587'	1007.		571 581	1007,	

н		0. J	L • 8	s • 12	51		PROJECT: JIM'S LAKE	PAGE NO: 6	OF	- 11					
c/	SING	COLL	AR E	LEV,;	4'	2.g.	GROUND ELEV .: DATE STARTED: JAN. 09. 85	REF. TO CLAIM	CORNE	R					
C0	DORD	NATE	is: L	52E .	321	85 1	N. E. DATE FINISHED: JAN. 14 . BS	SCALE: 1"*	10'					•	
İN	CLIN	TION	l: '	- 55	•		BEARING: 360 TOTAL DEPTH: 887	LOGGED BY:	<del>ک</del> .	Melv	OR				
NOI	ALT	ERA	TION	URING	ERAL	LOGY	COMMENTS:	AVE CORE REC'Y / HOLE	± HIDES	LING	CORE VERED	ORE I Z E	MPLE ERVAL	EC'Y. P INT	ESTI- MATED
SEC1	CHLORIT	SERICITI	CARBON	FRACT	NIW	GEO	DESCRIPTIVE GEOLOGY	MAG. SUS. (LOG 20 SCALE) 0.5 1.0 5 10	SULP	DRII	RECO	ŭν	SA	% F SAM	
- 580 F	57R		E	2	7.R		- CHIS Shear Epne 501- 593.8' CHLORITIZED, CARBONATIZED ANDESITE TUFF	0.1	31.			BQ	SBL	1007	
	NEROEG	W E A K	STRONG		PTR Ky		· cale vn - cale vn	       	17.	<u>5</u> 87	1007.			1007.	
- 590'	4		Ĩ		Py			• 0.1					591		
ł		4		1	1	1	- alternation servarbrick vs chl rick 'beds'. 2 gc verning to 2570. 2 2" at - adde 'ven'z 20% va diss Ry-Po- Cpy	1	37.		1007		593.8	10070	
-		R W K	w K		· Ri		307 Ispar pleaser in 593.8-596.7' FELDSPAR PORPHYRY siliceous dacific groundmass	0.1	0.5%	697'			596-7	1007.	
F	5	M	5	$-\frac{i}{1}$	11	1	R locally thin sor rich interbeds 596.7-603 MINERAUZED CARGONATIZED ANDESITE TUFF	1		-971-	<b>†</b>				
- 600'	R	o D	R	1			-cale vns	0.1	3%					1007.	
	<u> </u>		63	τĹ	1		3 beatly nod etherhed 603-606.8' FEIDSPAR PORPHURH	:0.1			100%		603		
F		W K	5	4K, []] 1L, []/	· P.		- 40% fspar phonox in 'decitic' groundness.		0.5%	67'			606.5	1007,	
È	M	M	ş	7	E D	Y	- calc. Po vein 606. 8-612.5' CARBONATIBED ANDESITE TUFF	_	17.				'eoa.	10 07.	· · · - •
- 610'	- °.	D.	R		il a		tale é carb ifragis to 570.		29					1007.	
ł			4				- thinky bd, nierbedderd 612.5-614.5 INTERAEDDED ARGILLITES	• 0.1	<u> </u>	1	1001		612.5	1007.	
F	STR	STR	STR	-11		17	calcite rich-societe rich-chlorite rich argillites 64.5-622 SERICITIZED, CARBONATIZED DACITE LAPILLI TUFF	• 0.1 1		1.			-017/3		
Ē	W	5	S T R		Py		strongly sericitized gridmans	1 - 0-1	27.	617				1007.	
620'	A	N	0 N	- É	- 54	K	gh veins	- 0-1					1		
₽ ₽			<u>م</u>			14	- sit halo as for 7 17 div for 622-626.5 FELDSPAR PORPHURY	10			1007.		622		
F		W E	4	4.04 04			- sil halo on far. E 2.7. diss fy	• 0	0.57	625	ļ			1007.	
E		ĸ	f	<b>x.</b>	1.		AT 11 Contract Sector 1 and 626.5-633.2' FELSIC TO INT. SERICITIZED LATILI TOFF TO ACCIOMERATE	• 6.1					626.5	- · ·	
F		4	S				and made in service grindmass	• 0.1	17.				630	1007	
F 650	]	D.	0 2 0				· gle va	:		1	100%	1	1	1002	
Ł		M				1	633.2'- 636.7' SEARCITIZED FELDSPAR PORPHYRY	, O.I		1			633.2	•	
F		Ď	K.H	ALCS	, P	1	Sil haios an trace 2 ass 170 dies by	* 0	0.257	636		$\left  \right $	636.7	100%	
F. 640	, [	V SFR.	V SIA		Ŕ		1- 49-50% ling & interbeds dol in (36.7' 640.5' CARBONATIZED, SERICITIZED FEL. TO INT. LAPILLI TUFF Strongly serie it zed gradanes OR EPICLASTIC (WACKE) EQUIVALENT. To about this check interbeds.	. o.i	17.	T0 647	100	1	r. 640.5	100%	

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HOLE NO. JL- 85- BI CASING COLLAR ELEV.; 4'4.9' COORDINATES: LS2E, 32+85							.9. 82	GROUND ELEV.; N. E.	PROJECT: JIM DATE STARTED: DATE FINISHED:	5 LAKE JAN: 09 - 85 JAN: 14 - 85	PAGE NO: 1 REF. TO CLAIM SCALE: 1		)  R:					,
IN	CLIN	ATION	N: -	- 55	•		-	BEARING: 360*	TOTAL DEPTH:	887'	LOGGED BY:	D. M	4[vof	۷				
SECTION	ALI ALIE	ERA	AREONATE	DTHER Z	RACTURING	MINERAL	GEOLOGY	COMMENTS:	DESCRIPTIVE	GEOLOGY	AVE CORE REC'Y / HOLE MAG. 605 (Los 20 Scale)	SULPHIDES	DRILLING	% CORE RECOVERED	CORE SIZE	SAMPLE	% REC'Y SAMP INT	ESTI- MATED
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										Hole ENDS © B TB SAMPLES SPLI Duncon M	FOR ASSAY (-100R FEB.22.85							

# DESCRIPTIVE GEOLOGY NOTES

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### DDH JL - 85- B1

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290	- 296.5°	<pre>-carbz and. -fg v soft light green v strongly carbz (diss calc to 25%) and. rock, wkly to mod chlz, wkly serz in places -well foliated at 60° to ca (strong sch) weak remnant fg crystalline texture in places -weakly to mod frac, pred parallel foliation with pred calc, minor chlorite, hematite frac fill -frac appear to weakly brecciate rock in places -a few thin (1/4") calcite vn parallel fo÷ liation, occasionally w minor qtz, occasional qtz-calc blebs to 1/4" diss throughout rock -0.5% vfg diss Py -at 292.4', 1/2" calc vn weakly cross cuts foliation at 80° to the ca -a few thin elongate calc blebs to 1/8" parallel foliation, lends tuffaceous appearance to rock in places, but probably discontinuous calc seams -at 296.5', 2" zone of strong hematite staining, vuggy -sharp contact with underlying f (aphanitic) unit</pre>
296.5	- 328.5'	<ul> <li>-carbz and. to basalt</li> <li>-rock pred a med green (lighter and darker green phases w vary intensities of chlorite alteration) vfg to aphanitic (w a few slightly coarser phases w what appears to be a fg remnant crystalline texture) soft, mod sch (at 60° to the ca) and to bas</li> <li>-v strongly carbz w fg diss calc to 25% of rock</li> <li>-mod to strong chl alteration</li> <li>-numerous(to 5% of rock) thin calc and some qtz 'vn' to 1/4", usually grey, fg, appear granular, usually parallel to foliation, although highly contorted in places, often with minor diss magnetite and Py</li> <li>-mod frac, w pred calc, minor chl, qtz, Py frac fil, frac at random or -a few thin elongate (parallel fol) carbonate blebs, appear frag in places, lend tuffaceous appearance to rock</li> </ul>

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#### DDH JL - 85-B1

296.5 - 328.5'

-rock is v mottled appearing w irregular blebs of lighter green material in darker green ground mass (alteration ?) lends brecciated appearance to rock in places -sulph content, 2% Py pred as mineralization associated with grey carbonate vn, some minor vfg diss mineralization in host and some frac fil -at 296.5' to 300', lighter greyish green, v intensely carbz -from 297 to 297.5', numerous frac have bright orange hematite/limonite staining/ halos to 1/2", locally vuggy -at 298.5', 1/4" highly contorted carb vn /seams with 5% vfg diss magnetite and 1% Py -from 299 to 299.5', a few 1" pred calc minor qtz vn sub parallel foliation at 45° to ca -from 300.8' to 301.2', dark grey vfg carb vn parallel foliation to 2" and 70% of rock w associated vfg diss magnetite to 10% and diss Py to 10%, a few semi massive Py bands to 1/8" -at 302', 3" zone w numerous 1/4" gtz calc bands parallel foliation w associated 2% diss Py and Py blebs to 1/8" -at 300.3', 1/2" calc minor qtz vn weakly cross cuts foliation at  $80^\circ$  to the ca, highly contorted, minor associated light brown sub metallic appearing mineral, possibly sphalerite. -from 304 to 306.5', locally darker green more strongly chlz, appears slightly coarser w fg remnant crystalline texture -from 307 to 307.3', 4" zone w thin 1/4" hard carb bands/vn parallel foliation, often contorted, brecciated, w 5% associated

often contorted, brecciated, w 5% associated vfg diss magnetite and 5% associated Py as semi massive bands w vn to 1/8" parallel foliation

-at 308', a few 1/4" carb vn parallel bd w 3 to 5% diss Py -at 308.5' a few 1/4" carb Py bands parallel foliation

#### DDH JL- 85- Bl

296.5 - 328.5'

-at 309', 1/2" grey granular appearing fg carb (calc) vn parallel foliation w 5% Py as semi massive bands parallel foliation -at 312.5', 1/4" grey granular calcite vn parallel foliation w 5% associated Py -at 313', 1/2" grey granular carb vn parallel foliation w 5% vfg diss Py and Py frac fil -at 314', 1" grey granular fg carb vn parallel foliation w 5% diss magnetite 2% associated Py as thin semi massive seams parallel foliation and frac fil -from 314 to 317', v dark green, more strongly chlz

-from 317 to 326', v mottled appearing w lighter green irregular blebs and bands parallel foliation lending frag appearance to rock but probably an irregular alteration feature, in a few places contains locally 1/8 to 1/4" sub spherical qtz carb blebs that may be amygdules -at 322', numerous 1/2" grey granular calc bands/blebs parallel foliation -at 323.53, 1/2" grey granular carb vn parallel foliation w associated 5% vfg diss magnetite and 2% diss Py -from 326 to 328%, tuffaceous interbd thinly bd appearing, containing 2% vfg diss magnetite , and thin 1/2" banded appearing hard siliceous zones w 10% hematite as thin bands pll fol -relatively distinct contact w underlying coarser unit

-carbz bas (tuff)
-rock pred a dark green, fg, mod to well fol
(at 60 to the ca) (sch and bd ?) bas rock
-relatively soft, mod chlz,
-calc to 30% of rock as vfg granular blebs
to 1/8" elongate parallel to fol, resembling
tuff frag, and thin irregular diffuse seams
pll to fol

-contains 5% small thin slips (1/32" to 1/16") of pale pink unknown mineral -weakly to mod frac at random or, w pred calc, minor qtz, hematite, Py frac fil -numerous thin (to 1/2") grey calc vn or thicker infil frac to 5% of rock at ran or

328.5 - 344'

#### DDH JL - 85-B1

328.5 - 344'

-few zones contain minor (1 to 2%) vfg diss magnetite -appears weakly silicified in places

w irr bands and blebs to 1/2" of dark vfg granular qtz w minor calc -sulphide content, 0.25% Py and trace Cpy ass w carb blebs and frac fil -from 333 to 333.5', few elongate 1/4"diffuse bands of silicified rock, blebs appear frag, elongate pll to fol, maybe a lapilli size tuff frag -at 336', 1/2" porphyroblast of hexagonal unknown mineral -at 339.8', 1/2" calcite fil frac at 45<sup>°</sup> to the ca w minor diss Ρv -at 340.5", 1/2" contorted carb vn w minor diss Cpy -at 343.5', locally 1% fg diss magnetite

-arbitrary contact w underlying finer unit

-carbz and. to bas tuff -vfg dark green and. to bas tuff -weakly to mod sch and weakly bd at 55° to ca -mod to strongly carbz w small (1/32") elongate pll to fol thin calc blebs to 10% (tuff frag) and pervasive alt w vfg diss calc to 20% of rock. -tuff frags are pred carb some contain minor qtz -weakly to mod frac at ra or w pred calc minor chl, hematite, Cpy, qtz frac fil, -mod chlz -a few 1/2" calc w minor qtz vn at ra or -weakly mag w zones of 2 - 3% vfg diss mage netite -sulph content 0.25% Cpy, trace Py ass pred w calc vn and frac fil, some vfg

diss mineralization in carb tuff frags -some slightly more frag rich bds in places often w distinct contacts

-from 344 to 344.5', a few 1/2" light green contorted calcite vn w minor vfg diss Cpy

-at 346', 1/2"diffuse appearing contorted calc seams pll fol w 1% vfg diss Cpy

344

- 368'

#### DDH JL - 85-B1

-\*·368'

344

-from 346 to 350', small elongate tuff frag become light pink, minor Kspar ass w qtz and calc

-from 352 to 353', locally v strongly frac w thin 1/16 to 1/8" pred calc minor qtz infil frac at ran or, locally fol strongly contorted from 45° to 60° to the ca -at 357.2', 1/2" hematite and siderite halo around 1/4" calc magnetite fil frac halo is v magnetite rich (5% vfg diss) -at 360 and 360.5' bright orange 1/2" hematite - siderite halos on frac, locally v clastic appearing w small carb frag to 15% of rock

-from 363 to 364', distinct interbd w small (1/32") white carb frag to 20% of rock

-from 364.8 to 368', distinct small white carb frag coarsen to 1/8" and 20% of rock locally v well bd at 55° to the ca, appears to coarsen towards 368' where frag to 1/4"

-at 367.2', 1/2" highly contorted qtz calc vn

368

- 374.7'

-altered agg and. or slumped brecciated eq

-thinly bd ( to 1/2"), bd v well developed at 60° to the ca, although it appears slumped and contorted in places -pred a dark green, soft aphanitic mod to strongly chltz and. matrix/gr mass w 1) slightly harder grey green bands and elongate pl1 to bd frag appearing blebs to 1/2" of strongly carbz and. material appears bleached, to 25% of rock 2) frag appearing, elongate pl1 fol, blebs to 1/2" and thin discontinuous highly contorted bands/bds of grey to white hard carb w minor ass qtz, magnetite, Py, and Cpy, to 10% of rock.

#### DDH JL - 85- B1

368 - 374.7'

-these appear to be slumped brecciated interbds in places and agg frag in places -rock is mod frac at ran or, several generations, some displacement of up to 1" along frac, w pred calc, minor qtz chl, Py, Cpy, frac fil -sulph content approx 1%, 0.75% Py 0.25% Cpy, pred as vfg diss mineralization ass w carb frags and as frac fil w calc and chl

-from 368 to 369', numerous 1/4" to 1/2" highly contorted white carb vn and brecciated vn frags w minor ass magnetite Py and Cpy -at 369.7', 2" zone of strongly chlz ground mass w highly contorted white 1/8" bleached carbonate frags/interbds (slumped ?) locally a few thin 1/16" Py seams pll fol -at 370', a few 1/2" contorted white calc and hard grey carb frag, w 2% ass diss magnetite, and minor vfg diss Py - Cpy -from 370 to 371', locally hard grey carb and qtz blebs/ bands, and brecciated vn frag to 1/2" and 25% of rock, w 1% ass diss magnetite and 1% Py - Cpy -from 371.8 to 372', a few 1/8" light pink to grey chert interbds pll bd (or maybe intensely sil alteration zones around fracs) -from 372 to 374.7', bds of hard grey carb (highly frac and micro brecciated) pll bd to 2" and 40% of rock, containing 10% diss magnetite as crystals to 1/8", and ass 1 to 2% vfg diss Py, minor Cpy -at 374', 1/2" qtz calc vn pll fol w a few 1/4" Cpy blebs -at 374.5', 1/2" hematite-siderite halo around frac, locally host is v soft, strongly

chlz w a few bleached appearing zones, bd v well dev at  $60^{\circ}$  to the ca

#### DDH JL 85-B1

374.7 - 405'

-carbz and. to bas tuff -rock pred a mod soft, dark grey-green to green fg and. to bas tuff, well dev fol (bd and weak sch ) at 60 to the ca -weakly chlz, mod carbz w thin (less than 1/32")diffuse calc seams pll bd to 15% of rock, occasionally w minor qtz, -contains 10 to 15% small (less than 1/32") elongate pll to fol white tuff appearing frags of pred carb, some fspar, qtz, appears dirty in places (grwk ?) -contains a few aphanitic phases, appearing more volcanic but w well dev bd -weakly to mod frac, pred pll fol, although other orientations are present, with pred calc, minor chl, hematite, Py frac fil -contains a few light green bleached appear-m ing zones (sericite alteration) -contains a few 1/2" lighter green more strongly carb interbd w diss magnetite to 3 to 5% -contains a few thin 1/4" to 1/2" qtz calc vn pred pll fol, but often highly contorted brecciated into frags in places -occasional qtz carb blebs are pink in color v frag appearing, -contains 5% diss light pink mineral (?) as thin slips (less than 1/32") pll fol -0.5% fg diss Py, minor Cpy, often ass w carb seams and as frac fil -at 376', locally hematite frac fil, -from 377 to 378', locally a light brown carb (calc)- qtz frag appearing blebs to 30% -from 381 to 387', fg aphanitic phase a few tuffaceous appearing frags, contains numerous qtz calc blebs to 1/2" that appear to be brecciated vn frags, locally only weakly carbonatized -from 384 to 384.5', a few 1/4" to 1/2" gtz blebs that appear to be brecciated vn frag

# DDH JL 85-B1

374.7 - 405'

-from 386' to 387.3', numerous thin 1/16" to 1/8" calc blebs elongate pll to fol appear to be tuffaceous frag, locally more strongly frac, pred pll sub pll fol w bleached sericite alteration halos to 1/16", some qtz and calc frac fil and Py locally to 2%, trace Cpy, as frac fil and fine grained diss mineralization, appear brecciated by frac in places -from 387 to 387.3', diss partially hematized magnetite to 5% and highly frac zone

-from 387.3 to 389.5', locally foliation contorted, crenulated, from 45 to 60° to the ca, locally more strongly frac - micro frac pred pll sub pll fol w calc frac fil -from 389.5' to 391', fg to aphanitic phase, only weakly carbonatized -from 391 to 392', locally fol is kinked crenulated,

-at 392.5', 2" zone of v thinly bd (1/4") v hard green to light pinkish beige argillaceous rock, maybe cherty interbd or zone of intense silicification

-from 392.5', to 394', thin 1/2" to 1" interbd of dark grey to light green fine grained granular appearing v carb rich (to 30%) rock with associated 2% diss magnetite and 2% diss Py, locally bd is kinked, crenulated,

-at 394', 1" yellowish green intensely sericitized zone/interbd

-from 394.8', to 395.2', a few 1/2" lighter green v granular appearing carb rich magnetite bearing (5%) interbds and locally a few 1/4" chert interbds (or strong sil halos around frac pll fol)

-at 396.8', 1/2" carb 'vn' w 2% diss magnetite, minor diss Py-Cpy and Cpy frac fil -at 398', 4" zone w numerous thin 1/4" hard grey carb rich 'bds' w thin light green sericitic argillaceous seams pll foliation, w minor diss Py and Cpy, and Cpy frac fil

-from 403 to 404', a few 1/2" calc vn pred pll fol

-from 404 to 405', becomes increasingly carbz, w thin bands of light pink ser-carb to 30% of rock,

#### DDH JL- 85-B1

374.7 - 405'

-distinct contact at 405'

405 - 410'

-altered agg and., or slumped brecciated interbd tuffs

-rock thinly bd, to 1 to 2", bd v well dev at 60° to the ca,

-consists of aphanitic to arg dark green strongly chlz soft and. matrix/ground mass w 25% interbds to 2" of beige, harder, v dolomitic appearing rock, bleached appearing, maybe primary carb interbds or intensely carbz interbd/frags, as in places are elongate pll to fol, v agg appearing, w minor sericites alteration in places often stongly micro frac phl to bd, and

-25% grey hard frag appearing elongate pll to bd blebs and irregular interbds to 1/4" of calc w minor chl, sericite and qtz, v granular appearing -rock is mod frac pred pll foliation w chlorite, calc Py frac fil -sulphides to 1% pred Py, trace Cpy, as vfg diss mineralization usually ass w grey carb blebs, occ thin seams pll fol, and frac fil w calc -a few 1/4" secondary calc and minor qtz

vn, pred pll fol, often contorted or brecciated

-some slumpping, and movement along frac -at 406.5', to 407', harder beige, dolomitic interbds to 1/2" and 40% of rock -at 408', 2" hard beige dolomitic interbd -at 408.8', 1" hard beige dolomitic interbd -at 409.2', 2" zone w thin dolomitic appearing bds to 80% of rock -note, dolomitic zones maybe distinct interbds, or zones of intense carb alteration

#### DDH JL- 85-B1

410 - 434'

-carb and. to basalt -med green vfg and. to bas tuff, weakly to mod chlz, mod carbz, w thin diss calc & diffuse calc seams pll fol to 20% of rock -well fol, appears bd, maybe weakly sch at 55 to  $60^{\circ}$  to ca -numerous (10%) small thin elongate blebs (less than 1/32" to 1/16"), of white, pred calc, some fspr, tuff appearing frags occasionally to lapilli size, 1/4" -weakly to mod frac, at ran or, w pred calc frac fil -a few thin (to 1/2") secondary qtz calc vn pred pll fol -contains 5% thin slips (much less than 1/32" of pinkish grey micaceous mineral elongate pll fol -0.25% fg diss Py and Cpy -some displacement of up to 1/2" along frac -at 415', 1/4" calc fil frac w a few 1/16" Cpy blebs, locally a light green 1/8" chlsericite fil frac cross cuts fol at 45 to the ca -at 419', 1/2" fg granular qtz calc band pll fol w 0.5% fg diss Cpy and Py -from 422 to 425', fol is kinked, crenulated ranging from 45 to  $60^\circ$  to the ca, appears slumped, with offsets along frac, locally contains numerous 1/2" chl and lighter green calcite rich distinct bds -at 422.5', 1/2" calcite fil frac at  $30^{\circ}$ to the ca, locally numerous larger 1/4" calcite blebs elongate pll fol, appear to be frag, or brecciated vn frag, -at 427.5', 3" highly frac zone, frac exhibit prefered or of 0 to 20° to the ca are calcite infilled w strong grey hard sil alteration halos to 1/8", -from 428 to 429', numerous 1/2" contorted qtz calc vn pred pll fol w ass 1% Py, trace Cpy, a few irr black 1/2" modelled appearing calc-biotite ? blebs -at 429.7', 1/4" semi massive Py-carb band pll bd w a 1/4" cherty grey sil alteration halo/, locally vfg diss Py and Cpy to 1% over 2"

DDH JL -85	<u>5-B1</u>	
410 -	434'	-at 431', 1" fg granular calc vn pll bd, locally w diss Py and Cpy to 1% over 2" -from 431 to 434', becomes lighter green increasingly chlz, contact at 434', marker by numerous 1/2" qtz calc vn pll fol, locally at 55 to the ca,
434 -	- 512'	-sheared, altered diorite (w and. /and. tuff interbds) -rock pred a strongly sheared, altered dio- rite, pred med grained to coarse grained, w fg phases, composed of approx 70% anhedral to sub hedral 1/8" plagioclase crystals and 30% chlz ferromags -weakly dev sch at 45 to 55° to the ca, although highly variable throughout the unit crystalline texture often over printed by fol, and corresponding stretching of cry- stals pll to sch, and -where strongly fol, increasing correspond- ing alteration, pred ser and chl alteration (ser alt of fsp, chl alt of ferromags), lending v mottled appearance to rock -weakly carbz in places w minor fg diss calc -contains a few vfg and. tuff appearing

-rock is mod frac, pred pll fol, w chl, calc, minor hematite frac fil, frac often have thin chl-ser alteration halos -contains 5% small (less than 1/32") thin short slips of unknown white mineral pll to fol,

-sulph content, trace, to 0.25% fg diss Py, (excluding Py in tuff interbds) -from 434 to 443', fg zone, chill margin, v well dev fol/sch at 45° to the ca, locally mod carbz, w 5 to 10% diss calc crystalline texture only faint, contains a few qtz calc - fspr vn to 1-2" primarily pll to fol, contains a few 4" plagioclase phenocrysts

-from 335.8 to 336.5', qtz-calc-hard light green fspr(sausseritized plagioclase) vn to 1/2" pl1 sub pl1 fol at 40 to 60° to the ca, to 80% of rock, fol locally accentuated by numerous thin irr difuse 1/8" seams of

#### DDH JL-85 - B1

434 - 512'

chl, occasionally w minor ser, pll fol, lends mottled appearance to rock -at 439!, 1" difuse light green calc seam to the ca at 80` -from 440.8', to 441', and. (tuff?) interbd, sharp concordant contacts at 55° to the ca, a light green weakly sch at  $55^{\circ}$ to the ca, weakly chlz, carbz, and. interbd appears vfg but 'grainy' w numerous small white flecks that may be tuffaceous frags, 1% ass vfg diss Py, at 440.6' 1" qtz W calc light green fspr vn pll fol -from 441.5' to 442', similar and. (tuff?) interbd w concordant contacts at 45° to the ca, and 2% ass fg diss Py -from 444 to 445.2', light green vfg weakly carbz weakly fol at  $55^{\circ}$  to the ca, and. tuff ? interbd, w numerous small white tuff appearing fspr blebs, sharp concordant contacts at 55  $^{\circ}$  to the ca, 1% vfg diss Py -at 445.2', 2" pred qtz w minor calc, chl and beige to light greenish brown hard fspr /carb ? vn at  $80^{\circ}$  to the ca, slightly contorted, trace Py along frac -from 445.2', becomes pred med grained to coarse grained, very mottled appearing -from 448.5 to 449', numerous thin diffuse irr chl seams to 1/4" pll to fol, lends v mottled appearance to rock -from 449 to 450.5', light green vfg weakly sch, weakly carbz and. tuff interbd, at 449', 1" qtz calc fspr vn at 55° to the ca, interbd contacts concordant at 55° to the c to the ca contains 0.5% fg diss Py -at 452.6', 1/2" qtz calc vn cross cuts fol at 45° to the ca, strong chl-carb alteration halo around vn -at 454.3', 1" qtz calc beige hard carb (dolomite?) vn pll fol at  $50^{\circ}$  to the ca, w minor bright light green ser -from 455 to 455.5', irr vcg granular to the ca, appearing qtz calc vn at 30 locally v mottled appearing, w 1/4" to 1/2" dark green chl seams pll to fol overprinting crystaline texture -from 456 to 457', v mottled appearing w several 1/2" soft chl blebs and seams pll to fol,

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434 - 512'

-at 457.7', 1" qtz calc vn at  $50^{\circ}$  to the ca, w a 1" intensely sheared soft chlz bands at vn margins, locally from 457.7 to 458.5' numerous 1/4" to 1/2"diffuse chl calc seams lends mottled appearance to rock -from 459.8 to 462.5', vfg light green mod carbz weakly fol at 55° to the ca, and. tuff interbd, w numerous small (1/32") white tuff frags, appears bd in places w slightly coarser vs finer bds 2 to 6" trace fg diss Py, contact at 459.8' is v irr, appears slumped, contact at 462.5', is sharp at 60° to the ca, -from 462.5', to 463.5', v mottled appearing w numerous 1/4" grey dark diffuse calcite and dark green chlorite seams pll fol and frac fil, at 463.5', 1" and. tuff interbd -from 463.5', becomes increasingly mottled appearing w bands of chl and ser to 1/2" pll to sch, overprinting crystalline texture, rock becomes increasingly altered to chl ser, numerous diffuse grey calcite seams to 1/2" pll to fol, alteration affects 30 to 40% of rock -from 465.4' to 466.5', vfg light green weakly carbz and. tuff interbd w trace Py as frac fil, contacts are relatively sharp at  $60^{\circ}$  to the ca -from 469 to 471', v altered, sheared sch, at 45° to the ca, very mottled , w strong chl - ser alteration as thin diffuse bands pll to fol, and overprinting crystalline texture, alteration affects 80% of rock -at 469.5' 1/2" calc and hard beige carb/ fspr ? vn sub pll fol at 50° to the ca, -at 470.5', 1/2" calc minor qtz, hard beige fspr / carb ? vn pll fol at 50° to the ca,

fspr / carb ? vn pll fol at 50° to the ca, -at 471.5', 2" pred fg granular appearing calc vn pll fol at 60° to the ca, w minor hard beige carb and or fspr at vn margins -from 472.8' to 473.5', vfg light green and. tuff interbd w trace Py, contact at 472.8', is contorted, contact at 473.5', is sharp at 55° to the ca, -from 474.5 to 476.8', light green, fg

v grainy appearing (w 5 to 10% small white fspr blebs) and. tuff interbd w trace diss Py, contacts are sharp at 60° to the ca

#### DDH JL - 85-B1

434 -512'

-from 477 to 486', rock becomes v strongly mottled , well dev sch at 50° to the ca, numerous thin 1/8" to 1/4" difuse chl w minor ser and calcite seams overprinting crystalline texture to 30% of rock, v banded appearing, pred coarse grained where crystalline texture not overprinted -at 480', 1/2" qtz calc vn pll fol at 50° to the ca,

-at 482 to 482.5', a few 1/2" chl bands pll fol, locally at 45° to the ca, w irr brecciated contacts w an and. tuff unit frags to 2" in dioritic rock -from 482.5' to 484', vfg light green and. tuff interbd, weakly fol, at 55° to the ca, w 0.5% diss Py, contact at 484' is sharp at 55° to the ca

-at 484.5', 1/2" qtz calc vn pll to sch locally from 484 to 486', v modelled app w thin difuse chl ser bands and minor calc seams overprinting crystalline texture to 40% of rock,

-at 485.5', a few 1/4" calcite minor qtz vn pll fol

-from 486', rock becomes v coarse g more felsic, with a

plag //ferromagnesium ratio of 80/20, v hard, ferromags completly altered to chl some weak ser alteration in places, crystals to 1/8 to 1/4", remains weakly fol at 45 to 60° to the ca, a few mottled zones w thin chl ser calc seams pll to foliation -at 486.2', 1/2" grey calc vn at irr or -from 486.8 to 488', strongly sheared zone (sch at 50°), strongly altered, w thin 1/4" grey calc seams and diffuse blebs pll fol to 20% of rock, and strong ser chl alteration as thin seams pll to fol ass 1% Py as frac fil and diss mineralizat+ ion

-at 489.5', a few 1/2" chl and calc vn with a minor diss Py

#### DDH JL- 85-B1

434 - 512'

-from 486', Py increases to 0.5%, ass pred w irr calc and chl vn and frac fil -at 493.3', 1" grey granular calc vn at 20 to the ca, from 486' appear to be slickensides along fracs, more strongly frac, pred pll fol, w calc and ser and minor chl frac fil -495 to 495.5', thin vfg light green and, tuff interbd, contacts are sharp at 55 to the ca, locally w 0.5% Py as frac fil -from 495.5', to 496', locally vestrongly frac at 70° to the ca, w chl, calc, ser, frac fil, appears micro brecciated, -at 496.2', 1/2 calc vn at 70° to the ca, -from 497 to 499', only v weakly fol at 55 to the ca, -at 498.7', 1/16" chl seam/frac at 30° to the ca, w 1% diss Po and Cpy -at 499', 3" and. tuff interbd, w 3% vfg diss Po , Py and Cpy, and sulph frac fil -from 499.5', 501.5', vfg and. tuff interbd, well fol at 65° to the ca, contacts are sharp at 65° to the ca, contains 1% vfg diss Py-Po-Cpy, -at 503', 4" zone where strongly frac, frac cross cut fol at  $40^{\circ}$  to  $50^{\circ}$  to the ca, w calc and Py frac fil, -from 504 to 505', strongly sheared, sch zone, sch at 50° to the ca, w corresponding strong ser - chl alteration, crystalline texture completly overprinted, 1/2" gtzcalcite vn pll to fol at 504.3', -from 505 to 505.8', v soft, strongly chlz and, interflows/bd, well fol, strongly sch at 60° to the ca, contacts at 60° to the ca, w 1% vfg diss Py-Po -at 505.8', 1" gtz carb vn at 60° to the ca, -from 505.8 to 506.3', v strongly sheared sch, at 50° to the ca, intensely chlz, crystalline texture completly overprinted numerous thin calc and qtz calc seams at ran or

-from 506.3 to 512', v v cg, crystals to 1/4", locally more mafic, with 55 % plag and 40% ferromags, w 5% 1/8 to 1/4" pink corroded garnets and 2 to 3 % qtz

#### DDH JL- 85- B1

434 - 512' -locally sch is a highly irr, ranging from 30° to 70° to the ca, v weak, locally mod frac at ran or w pred calc, minor qtz ser, chl frac fil, and 0.25 to 0.5% vfg diss Py, Cpy, and trace Po

512 - 524'

-and. tuff, -rock pred a vfg, light to med green, weakly fol, (at 55° to 60° to the ca, as exhibited by weak alignment and prefered or of 10% v small, 1/32" white fspr blebs that resembled tuff frags) and. tuff -a few aphanitic phases -weakly to mod frac at ran or, w pred calc, chl frac fil, minor Py -only v weakly chlz and carbz -0.5% Py, trace Po and Cpy, as frac fil w calc and chl, and minor vfg diss mineralization -from 513.2' to 513.8', coarse, strongly sheared sch ( at 30° to 50° to the ca) strongly altered (chlz) dioritic dyke -from 514.6 to 515.5', fg diorite dyke, relatively sch at 45° to the ca, relatively chlz, serz, a few 1/2" calc seams pll to fol, contacts at 40° to 60° to the ca, -at 516', 1" diorite dyklet at 80° to the ca, -from 517 to 518',. a few 1/4" light blue qtz vn/seams w calcite, pred pll fol, -from 519 to 520.5', v dirty appearing, (wacke) well bed at 55 to the ca, w 10 to

-sharp contact at 512', at 50° to the ca,

15% small white fspr and calc blebs, often elongate pll fol to 1/16", -at 521', 1/8" chl seam pll fol, w 2% ddss Po-Py, trace Cpy, -from 522 to 522.5', alfew 1/2" dark grey cherty silicified bands pll to fol, at 50° to the ca, w 1% ass vfg diss Py-Po,

trace Cpy

#### DDH JL-85 -B1

524 - 525.4'

-thinly bd sil and. tuff, or arg eq -rock pred a v thinly bd (1/16 to 1/2") dark grey to green, v hard, v sil arg rock, w a few v small (less than 1/32") qtz and carb slips elongate pll fol that may be tuff frags -a few thin light green ser rich bands pll fol -mod frac at ran or, with calc, qtz, and Py frac fil -0.5% Py, 0.25% sphalerite, trace Cpy, pred as frac fil mineralization and a few thin 1/16" seams pl1 bd w chert, minor vfg diss mineralization, -from 524 to 524.2', numerous light green ' thin ser seams -at 524.9', 1/4" calc vn cross cuts bd at 35° to the ca, -from 524.9 to 525.4', numerous thin light greenish grey chert interbd w a few thin 1/4" calc seams pll bd, a few light reddish

brown 1/16" sphalerite rich seams pll to bd, a few 1/8" Py fil frac sub pll bd

-v strongly altered, sheared, diorite to gabbro

-rock pred a med grained (w vcg and finer g phases) severely altered, sheared, sch, dioritic to gabbroic rock

-composed of, on av., 60% altered plagioclase (altered to light green to yellowish green epidote/sausserite) and 35% altered ferromags (altered pred to chl,minor ser) -sch mod dev at 50° to the ca, (varies from 45° to 55° to the ca, ), in places crystalline tex completely overprinted by schistosity and related chl-ser alteration

-rock is mod to strongly frac, pred pll subpll fol, although other or present, w calc, chl, ser, and minor hematite frac fil, frac appear to weakly brecciate rock in places -contains a few 1/2" to 1" irr diffuse calc yn

-where strongly fol get clots of fspr and ferromags to 1/4"

525.4 - 540'

#### DDH JL- 85-B1

525.4 - 540'

-sulph content, 0.25% Py, trace Po and Cpy pred ass w carb seams, frac fil, and v minor vfg diss mineralization -from 525.4 to 526.5', fg zone (chill margin)

-at 527.6', 2" calc vn pll fol to 50° to the ca marking contact w and. interbd, vn has a 2" strongly chlz halo, w 2% diss Py-Po-Cpy

-from 527.6 to 530.2', vfg dark green relative ly hard weakly chlz mod carbz (diss calc to 5%) and. , w from 528 to 529', a few irr brecciated 2 to 3" diorite 'frag' (xenoliths) weakly fol at 55° to the ca, numerous small 1/32" white fspr blebs lend tuff appearance to rock, contains 0.5% Py pred as frac fil and minor vfg diss mineralization, -from 529.5' to 530', a few 1/16" Py fil frac cross cut fol at 30° to the ca, -from 530.2', to 530.5', irr 1/2" creamy white qtz carb vn at 0° to 50° to the ca, w minor ass diss Py, surrounding host is strongly chl-epidote altered -from 534.5' to 536.5', fg phase, well fol, at 45° to the ca, -at 538', 1/2" v strongly chlz band pll fol at 45° to thecca -at 539.5', 1/2" irr qtz calc fspr epidote vn at  $80^{\circ}$  to the ca,

-sharp contact at 540', at 70° to the ca,

-weakly carbz and. tuff w altered diorite dykelets -rock pred a vfg, light green and. rock probably an ash tuff, -appears weakly to mod fol at 55° to the ca, -slightly grainy appearing, w numerous (10 to 15%) v small (less than 1/32") white fspr blebs weakly aligned pl1 fol lending tuff appearance to rock -weakly carbz w 5% vfg diss calc in places -relatively hard, fresh, only weakly ch1z -weakly frac at ran or w calc, chl, minor Py frac fil in places

540

- 559.81

#### DDH JL-85-B1

540 - 559.8'

-contains a few thin highly altered diorite appearing 'dykes' to 2' -sulphide content, 0.25% Py, pred as vfg diss mineralization and mineralization ass w carb vn -at 542.5', 3" strongly chlz, v soft shear zone w 10% small (1/32") elongate pll fol slips of unknown white mineral -at 542.8', 1/4" calcite chl vn pll fol -from 542.8 to 543.4', locally more strongly carbz, darker green more strongly chlz, w 10% thin white elongate slips pll fol that resemble tuff frags, maybe fspr -from 543.4 to 543.6%, locally 2% vfg Py as thin slips and microfrac fil pll fol -from 543.6 to 545.5', slightly coarser fg dioritic, 'dyke', contacts are conformable at 50° to the ca, at 545.5', 1/2" calc dolomite fspr vn pll fol -from 546.5 to 548.3', altered dioritic dyke, fg to med g, only a weak remnant crystalline tex, overprinted by sch at 65° to the ca, contains 10% small white slips to 1/8" pll fol of unknown mineral contains a few 1/4" qtz calc vn at 70° to 80° to the ca, -from 550 to 550.5', slightly coarser fg and. / diorite 'dyke', mod sch at 55° to the ca, locally strongly frac at ran or w calc frac fil, -from 550.5 to 551.2', locally aphanitic v soft, but strongly chlz zone w 2% vfg diss Py and Py microfrac fil pll fol -at 551', 1" qtz calc fspr vn pll fol -at 551.5', 2" slightly coarser zone w 10% small white blebs pll fol , a few difuse 1/4" calc seams pll fol -from 552.5' to 555.5', coarser med grained altered, sheared, dioritic dyke, sch at

 $45^{\circ}$  to  $60^{\circ}$  to the ca, contacts are sharp, conformable, at  $50^{\circ}$  to the ca, contains numerous 1/2" calc vn at ran or, crystalline tex overprinted by sch and ass chl - ser alteration

-at 553.5 and 554', l"diffuse grey calc vn -at 554.8', l" qtz carb vn pll fol, -at 556', 2" sheared altered and. to diorite band/dyke at 60° to the ca,

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540	- 559.8'	-from 556.5' to 557', a few 1/4" hard beige fspr / carb vn pll fol, -at 558', 1/2" hard creamy carb (magnesite?) vn at 90° to the ca, locally with diss Py to 1% over 2" around vn
559.8	- 567.3'	-sheared altered diorite to gabbro -strongly altered, sheared diorite to gabbro pred med grained, some fg phases, mod sch at 55° to the ca, -rock comprised of approx 60% altered plagio- clase (now pred a light green, weakly epidote altered) and 40% totally chlz (with some ser) altered ferromags -crystalline tex to a large degree overprinted by diffusebands and seams of chl and minor ser pll fol -where strongly sch gets large clots of chl ser altered ferromags and epidote altered plagioclase to 1/4" -contains 5% thin small (less than 1/32") slips of unknown white mineral pll to fol -weakly to mod frac, pred pll sch w calc chl frac fil, -trace vfg diss Py -from 559.8 to 561', fg and. appearing phase -sharp contact at 567.3', at 60° to the ca
567.3	- 570.5'	<pre>-carbz and. tuff -vfg to fg med green, weakly chlz, mod carbz and. tuff -mod dev bd at 60° to the ca, as exhibited by prefered or and alignment of 20% small (1/32") white calcite blebs resembling tuff frags -weakly frac at ran or w calcite, chl frac fil -trace vfg diss Py -becomes increasingly altered, softer, from 569 to 570.5', -a few 1/4" calc vn pl1 fol</pre>

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570.5 - 572',

-strongly altered and. ash tuff or epiclastic arg eq -thinly bd (to 1/4") light greyish green, aphanitic/arg rock -v v soft, intensely chlz, -bd v well dev at 55° to the ca -weakly frac pred pll fol w calc and chl frac fil -trace vfg diss Py

572 - 581'

-dark brown, thinly bd, altered intermediate ash tuff or epiclastic argillaceous eq -rock is v thinly bd (1/16 to 1/4") dark brown, aphanitic/arg rock, bd v well dev at 55° to the ca, -brown colour may be due to vfg biotite to 30 to 40% of rock (or chl), v soft -contains an av of 10% thin (1/32" to 1/16")grey v v fg calc seams pll fol, and small (to 1/16") elongate calcite blebs that appear to be tuff frags -some carb free arg interbd -mod frac, pred pll sub pll bd, w calc, minor frac fil -a few thin green chl seams pll bd, a few small chl frags elongate pll fol, -from 572 to 577', pred dark brown arg, calc only 5% as thin seams pll bd and a few frag appear blebs to 1/16", sulph locally only trace Py as vfg diss mineralization -from 577', becomes more tuff appearing w thin calc and occ minor qtz seams to 1/16" and elongate thin tuff appearing blebs to 1/8" pll fol, to 25% of rock, sulph increase to 3% Py as thin slips pll fol to 1/8", -at 579', 1/2" gtz calc vn pll fol at 55° to the ca, -sharp contact at 581',

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581 - 593.8'

-chlz carbz and. tuff -dark green well fol (appears bd w a weak pll sch) and. rock, bd at 55 to the ca. -relatively soft, mod to strongly chlz, mod to strongly carbz w 15 to 20% vfg diss calc as a pervasive alteration -contains 5%(approx) small 1/32" to 1/16" white calcite blebs elongate pl1 fol lending tuff appearance to rock, in places appears v 'dirty' , maybe slightly reworked and technically a greywacke -numerous thin 1/4" calcite w minor gtz vn pll fol to 1" -mod frac pred pll sub pll fol w calc, some chl, ser, Py frac fil, some offsets along frac up to 1/2" -contains in places vf light grey v carb appearing interbd to 1" and 40% of rock -sulphide content, av 1% pred Py as thin 1/16" slips/stringers pll fol and frac fil, w minor Po-Cpy as vfg diss blebs to 1/32", trace sphalerite as thin slips pll fol -from 581.8 to 582', 3" strongly chlz v soft shear zone w 10% thin calc stringers pll fol and ass 2% Py as thin stringers pll fol, a few thin sphalerite stringers to 0.25% -from 582 to 582.5', a few 1/2" faint light grey calc rich interbd (or intensely altered zones) -at 586.5', 1" calc vn pl1 fol -at 588', a few 1/4" calc vn pll fol w minor vfg diss Py -at 588.8', 1" contorted calcite gtz vn -from 591 to 593.8', rock becomes v well bd, bds from 1/2 to 1", w grey vfg interbd of ser-carb to 70% of rock, separated by

thin 1/4" intensely chlz bd, grey carb rich bds contain minor diss biotite, small carb blebs to 1/8" still present, occasional lrg agglomeratic appearing frags to 1/2", often w Py mineralization

-sulph locally to 3% (2% Py 1% Po trace Cpy) pred ass w carb rich interbds -at 592.5', 2" bd appearing calc w minor qtz

'vn' pll fol w 20% vfg diss sulph (15% Py, 5% Po trace Cpy)

### DDH JL-85-B1

581	- 593.8'	-from 593, 593.5', bd locally highly contorted offset by frac, w numerous contorted 1" pred calc minor qtz vn to 25% of rock, w ass 5% Py, trace Po mineralization -sharp conformable contact at 55° to the ca
593.8	- 596.7'	-fspr Porphyry/porphyritic dacite -conformable sharp contacts at 55° to the ca either a sill or flow -rock consists of a light greyish green, relatively siliceous, aphanitic dacitic ground mass, weakly serz, w 30% phenocrysts to 1/4" av 1/8", usually sub hedral, of fspr -fspr are mod carbz (calc as a replacement) -weakly schz at 55° to the ca, -mod micro frac pred pll fol w calc and ser frac fil -contains 0.5% vfg diss Py -contains 2 to 3% small (1/32") chl clots throughout unit
596.7	- 603'	-mineralized, carbz and. tuff -rock pred a thinly banded/bd (v well dev fol at 55 to the ca, bands/bd av 1/8") med to dark green altered and. tuff w 30% calc as thin 1/8" to 1/16" discontinuous seams pl1 bd between thin dark green chlz bands -calc blebs appear to be frags in places but may be discontinuous calc stringers -weak to mod frac at ran or w pred calc some chl frac fil -proximal to fspr porphyries, rock contains numerous 1/2" to 1" grey v ser rich arg bands/ interbd pl1 fol, w stronger chl alteration of and. tuff -numerous thin (to 1/2") pred calcite w minor qtz vn/bands pl1 bd

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-sulph to 3% (2% nonmag Po 1% Py) pred as seams to 1/8", and thin slips to 1/32" pll bd

#### DDH JL 85-B1

596.7 - 603'

-from 596.7 to 598.5', dark grey ser rich bd to 1" and 80% of rock, separated by thin v chl bands, numerous thin calc w minor qtz stringers to 1/4" pll fol, (to 10%) and 3% Py 0.5% Po as thin 1/32" stringers pll bd and diss blebs to 1/8", often ass w calc seams -at 599', numerous 1/2" calc vn pll fol -from 602.3' to 603', appears to be mod sil w thin 1/2 to 1" grey hard irr sil bands -sharp contact at 55° to the ca

603

- 606.8'

-fspr porphyry/porphyritic dacite -sharp conformable contacts at 55° to the ca, -rock consists of an aphanitic light grey to yellowish grey v sil hard dacitic ground mass w 35 to 40% phenocrysts of fspr (pred anhedral to sub hedral) to 1/4", av 1/8", partially altered/replaced by calc -weakly fol (sch ) at 55° to the ca, weakly overprints crystalline texture, weakly alignes fspr phenocrysts, lends mottled app to rock -ground mass is weakly serz -mod microfrac pred pll fol w calc and ser

frac fil -0.5% vfg diss Py, -a few (5%) qtz phenocrysts -some frac have thin 1/4" sil alteration halos

-carbz and. tuff -vfg dark grey to greenish grey well fol (bd) strongly carbz and. tuff -carbz as v thin (1/32 to 1/8") diss -calc blebs and seams pll fol to 25% of rock -weakly to mod chlz and serz in places -contains a few 1/16 to 1/8" thin elongate calc blebs that appear frag -a few thin 1/4" calc vn pred pll fol -appears 'dirty' in places, resembling a greywacke -weakly frac, pred pll fol w calc and chl frac fil

606.8

-612.5'
## DDH JL-85-B1

606.8 - 612.5'

- sulph content, 1% (0.75% nonmag Po and 0.25% Py) ass w calc vn, minor diss mineral-ization

-at 608', 1" calc vn pll fol w thin nonmag Po stringers in diss blebs to 2% -from 608.5 to 609', numerous 1/2' highly contorted vfg hard granular carb - sil bands/vn/bd w ass 10% vfg diss nonmag Po, minor Py and Cpy

-from 611 to 612.5', locally v strongly chlz v soft, sulph increase to 3% (2% Py, 1% Po) as thin slips to 1/16" pll fol, and a increase in qtz content as 'frag' elongate pll fol to 1/8" and 5%, a few 1/4" qtz calc vn pll fol

612.5 - 614.5'

614.5 - 622'.

-interbd arg

-thinly bd (less than 1/16" to 1/2") bd v well dev at 55° to the ca, pred a light green, v ser rich, relatively hard arg (or dacitic ash tuff) w a few white to light grey carb (or calc rich arg) interbd and dark green chl interbd -sulph to 1%, pred nonmag Po and Py, w trace Cpy as v v fg slips along bd planes, some minor frac fil -weakly frac at random or w pred calc frac fil -at 613', 3" coarser tuff interbd -at 613.8', 1" grey calc rich arg/carb interbd -from 614 to 614.5', dark green soft chl arg interbd

-serz carbz intermediate (dacitic) lapilli tuff

-rock pred a v thinly bd (1/16 to 1/4") bd v well dev at 55 to the ca, although contorted in places, altered intermediate lapilli tuff, comprised of a light green aphanitic strongly ser relatively soft ground mass/matrix w 40% thin (1/32 to 1/4") elongate (pll fol) short (to 1/4") frag appearing lapilli size white to pale beige carb (pred calc, some harder dolomite) blebs that resemble lapilli tuff frags and in places

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614.5 - 622'

more clastic appearing frag (maybe a grwk) -contains a few 1/8 to 1/4" elongate qtz frags to 5% -contains a few thin cherty interbd to 1/16" -a few zones where carb blebs appear more tobe boudinaged interbd in a ser ground mass -mod frac at ran or w ser, calc, chl and Py frac fil -contains a few secondary gtz carb vn at ran or to 1/2" -sulphide content, 2% Py, trace nonmag Po and Cpy, pred as v thin (1/16") slips pll bd some frac fil -from 614.5' to 616', locally ground mass is dark green, strongly chlz, becomes increasingly serz from 616 to 622', -from 614.5 to 615.5', bd locally highly contorted, from 0 to  $55^{\circ}$  to the ca, slightly coarser w larger carb and quartz frag and interbd to 1/4", locally sulph to 3% (pred Py, minor Po Cpy) as thin seams pll bd and cross cutting frac fil -at 620', 1/2" qtz vn cross cuts bd at 70<sup>°</sup> to the ca, w Py microfrac fil -at 620.5' 1/2" qtz carb vn pl1 fol -at 622', 1" qtz vn at 80° to the ca, marks contact w underlying fspr porphyry

622 - 626.5'

-fspr porphyry -weakly fol at 50 to 55° to the ca,(sch) -rock consists pred of aphanitic yellowish green weakly to mod serz hard, sil, dacitic to rhyolitic ground mass, w 0.5% fg diss Py, mod microfrac pred pll sch w calc and ser frac fil, and

-35 to 40% anhedral to sub-hedral pred fspr phenocryst to 1/4", av 1/8", weakly aligned, pll fol, fspr phenocrysts are weakly carbz (calc as a replacement feature) -contains 5% small qtz phenocrysts -contains numerous intensely silicified zones around qtz carb vn and qtz fil frac, where host is intensely silicified (both matrix and phenocrysts) and weakly pyritic

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622 - 626.5'

-at  $622^{1}$  ,  $1/2^{"}$  silicification halo around frac

-from 622.5' to 623.2', strongly silicified as an alteration halo around 1/2" qtz carb vn at 40° to the ca, and numerous qtz fil frac Py increase to 1% as diss blebs to 1/4" along frac and vfg diss mineralization in silicified alteration halo, minor vfg black tourmaline as frac fil in qtz vn at 623.2', from 624 to 625', strongly silicified zone, as alteration halos around frac, locally mod to strongly frac at pref or of 0 to 20° to ca, w ser, Py, and carb frac fil, locally Py to 2% as vfg diss mineralization in althalo and blebs to 1/4" along frac -contact at 626.5' at 40° to the ca,

626.5 - 633.2'

-carbz ser Felsic lapilli tuff to agg -rock pred a v thin bd (at pred 55° to ca, varies from 50 to 55°) extremely altered felsic to intermed lapilli tuff to agg, composed of a thinly bd (1/16 to 1/4") light grey hard sil aphanitic to light greyish green mod serz sil gound mass (rhyolitic to dacitic) w 30% to 40% light beige relatively hard carbonate (dolomite?) as thin 1/16" to 1/8" elongate pl1 fol lapilli size frag to 1/4" agg frag and a thin interbd /seams pl1 fol (looks v fragmental, but maybe thin brecciated or boudinaged dolomitic interbd) -a few 1/4" frag appearing qtz blebs to 10% of rock)

-rock is weakly to mod frac, pred pll fol, although other or exist, w ser, calc, and minor chl and Py frac fil, -fines from agg at 626.5' to lapilli tuff at

633.2',

-dolomitic appearing frag maybe an intense alteration (i.e. carbz) of sil frag in agg -sulph content, 1% Py, pred vfg diss mineralization as cubes & amorph blebs to 1/16", and minor frac fil

-from 626.5 to 627.5', rock pred dolomitic frag to 1/2" and thin dolomitic bands pll fol to 80% of rock, in ser ground mass, v granular appearing in places w numerous small qtz 'eyes'

626.5	- 633.2'	-at 631', 1/2" qtz vn pll fol w a few 1/4" Py blebs -at 632', 6" qtz vn at 0 <sup>°</sup> to the ca, locally bd weakly contorted, kinked, crenulated, becomes a finer lapilli tuff from 632 to 633.2 and becomes slightly more chl
633.2	- 636.7'	-serz fspr porphyry/porphyritic rhyolite to dacite -rock pred a vfg aphanitic light yellowish green hard sil mod serz rhyolitic to dacitic ground mass, weakly fol (sch ) at 55° to the ca -strongly microfrac pll fol w calc and ser frac fil, w -35 to 40% small (to 1/4" av 1/16 to 1/8") anhedral to subhedral white fspr phenocrysts partially altered to or replaced by calc, weakly aligned pll fol, w 5% small light green qtz phenocrysts -porphyritic texture overprinted in areas by sch and ass ser alteration -contains 0.25% vfg diss Py -a few 1/4 to 1/2" sil halos around qtz string ers and qtz fil frac -contacts are sharp and are conformable at 55° to the ca, -at 633.5', 1/2" sil halo around frac cross
		cuts fol at 45 -at 636', 1/2" sil halo around 1/16" Py calcite qtz fil frac at 70° to the ca,
636.7'	- 640.5'	-intensely carbz, serz, felsic to intermed lapilli tuff or epiclastic (wacke)eq -rock consists pred of, v thinly bd (1/32" to 1/2") bd v well dev at 55 to 60° to the ca, -light greenish grey intensely serz ground mass/matrix w -40 to 50% thin (1/16 to 1/8") grey to beige carb seams pll bd, and thin elongate pll bd blebs to 1/2" carb that appear to be lapilli size frag (although maybe boudinaged or brecciated thin interbd)

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636.7 - 640.5'

-carbonate pred a dolomite (v weak reaction to HCL, relatively hard) -a few thin 1/8 to 1/2" cherty silica interbd -a few 1/2" beige dolomitic (w minor ser) interbd -rock is v strongly microfrac pred pll fol w calc chl ser and Py frac fil, microfrac lends v mottled appearance to rock -contains 1% Py as thin slips / seams pll fol, occ diss cubes ass w carb, and minor frac fil -at 638.5 to 639.5", interbd to 1/2" of hard beige dolomite and lighter green totally serz rock are severely brecciated by thin frac at a pref or of 70 to  $90^{\circ}$  to the ca, offsets along many frac to 1/2", v well dev brittle deformation structures in carb bd bd ranges from 0 to  $55^{\circ}$  to the ca,

-from 639.5 to 640.5', interbd of light grey totally serz arg rock and dark grey green ser carb altered rock, w a few thin 1/8"

chert interbds and a few thin chloritic seams

-rather arb contact w underlying agg unit which is slightly more chloritic, and less

rock less lapilli tuff appearing

carb rich

640.5 - 665'

-interbd, altered, (carbz, serz, chlz) intermediate lapilli tuffs and agg, or reworked epiclastic eq (lithicwackes and conglomerates) -rock exhibits highly variable appearance, w varying types and intensities of alteration and varying frag/ground mass ratio -pred,a v thinly bd (bd ranges from 35 to 65° to the ca, pred at 55° to the ca, light to med green aphanitic/arg, soft pred v strongly serz (w strongly chlz zones) ground mass/ matrix w frag of white to light green to beige pred carb (calc and dolomite), occ frag of serz rock, qtz, and sulph, ranging in size fr 1/16" to 1/8" to 1/4 to 1/2", and w coarse agg bd, and finer lapilli tuff bd, ranging in abundance from 25% to 50 to 60% of rock.

640.5 - 665' -bd appears slumped, highly contorted in places -rock is pred mod frac, pll sub pll bd w calc, ser, chl, and Py frac fil -sulph content is highly variable, as outlined below, -a few thin 1/2" secondary qtz carb vn pred pll sub pll bd -either interbd lapilli tuffs and agg, or slightly reworked epiclastic eq, technically greywackes and conglomerates -from 640.5' to 643.5', light green thinly bd (55<sup>°</sup>) pred sericitic arg, w thin 1/32" to 1/16" grey hard dolomitic interbd to 25% and 5 to 10% small (1/8") dolomitic frag elongate pll to fol, coarsens slightly to 643.5', w a few 1/4" to 1/2" carb frag -at 641.2', 1" contorted qtz vn, weakly pll fol at 55° to the ca, bd strongly contorted around vn from 35 to 55° to the ca, weak chl alteration halo around vn w thin Py seams at margins -at 642.5', a few 1/2" gtz w minor calcite and dolomite frag, maybe boudinaged or brecciated vn frag -from 643 to 643.5', strongly chlz zone w numerous 1" gtz and hard beige dolomite minor calc contorted vn pll sub pll fol w minor ass diss Py -at 643.5', thin beige dolomitic bands to 1/4" and 80% of rock over 1", locally to 90 to the ca, -sulph locally from 640.5 to 643.5', are 0.5% Py as diss blebs to 1/8" -from 643.5 to 644.5', qtz vn to 80% of rock massive white vn from 643.5 to 644', and 644.2 to 644.5', w strongly chlz and serz zones between vn, vn are mod to strongly frac at ran or w chl and Py frac fil and minor diss Py at vn margins (Py to 5% over 1') -from 644.5 to 646.5', thinly bd (bd locally at 35 to 45° to the ca,) strongly chl-ser rich / altered bd w only minor thin dolomitic seams and frag pll to bd -at 645' 3" highly contorted light green dolomitic bd/vn at  $35^{\circ}$  to the ca, (appears to be vfg granular carb w minor qtz) w ass 10% vfg diss Py and Py frac fil -from 645.3 to 646.5', vfg diss Py and thin

640.5 - 665'

Py seams pll bd to 15% of rock, overall sulph content from 644.5 to 646.5', is 10% Py

-from 646.5 to 648.5', y coarse agg appearing unit, bd ranges from 55° at 646.5 to 45° 648.8', v crenulated, slumped appearing -matrix / ground mass is a light green sericitic rock w 40 to 50% irr firag to 1/2" of pred beige hard carbonate (dolomite) and minor light green serz rock, minor cherty gtz, and gtz

-at 648', 2" zone with thin beige dolomiteser band/vn w ass 3% Py -overall sulph content from 646.5 to 648.8', is 1% Py as thin seams pll bd and ass w

vn -from 648.8 to 649', preceeding coarse bd

terminated by this thinly bd slightly darker green more chloritic interbd at 65° to the ca -at 649', 1" zone w numerous thin dolomitic and cherty qtz seams and blebs to 1/8" pll fol, w 5% ass vfg diss Py -from 649 to 652.5', bd locally at 45° to the ca, mod chlz and serz ground mass w only 10 to 15% thin carb bd and frag appearing blebs to 1/8", Py to 0.5% pred as frac fil w calc and qtz, bd locally is kinked along frac

-at 649.5' 1/8" qtz carb fil frac at 90<sup>0</sup> to the ca, kinked and offsets fol, Py to 3% locally over 1" as halo around frac -unit contains a few thin qtz calc dolomite vn to 1/2" pred pl1 fol

-from 652 to 652.5', coarsens, frag to 1/2"and 40%, pred light green to beige carb and ser rich rock, bd locally is highly crenulated and contorted from 40° to 60° to the ca, -at 652.5', 1/2" gtz ser vn / band at 65° to the ca,

-from 652.5 to 655', v strongly serz, light yellowish green ground mass, v thinly bd bd locally at 45 to the ca, w 25% small (1/8" to 1/4") thin white carb (dolomite) and ser altered frag pll fol -at 652.8 ', 1" dolomite qtz vn pll fol at 45

-at 654', 1" qtz dolomite vn pll fol -locally sulph 1% Py as thin elongate frag appearing blebs to 1/2" ass w ser and carb,

640.5

- 665' and thin slips pll fol -from 655 to 658', slightly darker green, more chl ground mass w only 10% frag of pred dolomite and ser altered rock, a few cherty gtz frag -at 655.5', 1/2" qtz vn pll bd at 55<sup>o</sup> to the ca, -from 655.5 to 656', slightly coarser zone w 15% frag to 1/2" -at 657.5', 1" serz band -from 657.5 to 658', coarser zone w 15 to 20% frag of ser carb altered rock to 1/2" -sulph locally from 655 to 658', Py to 1% as thin discontinuous seams ass w bd and fg diss mineralization -from 658 to 662', strongly serz ground mass w 10% (small to 1/8") ser carb and Py frag elongate pll fol, w 5% thin carb interbd -from 658 to 658.5', v strongly serz, bright yellowish green, locally a few 1/4" thin elongate Py frag -from 659 to 659.5', bright yellowish green strongly serz zone, w Py locally to 2% as small 1/8" semi massive frag w minor carb, ser, and qtz, locally v 'dirty' appearing maybe a wacke -from 662 to 665', appears strongly sch pll to bd, (50° to the ca) slightly coarser, v soft, intensely serz ground mass, w only 5% frag appearing carb and ser blebs to 1/4" and thin seams pll to bd -locally sulph 0.5% diss Py , -a few 1/2" qtz dolomite vn pred pl1 sch and bd -sheared serz porphyritic rhyolite to dacite /QFP -rock v similar to preceeding fspr porphyry units, but porphyritic texture is overprinted by sch and strong ser alteration -rock a light yellowish green vfg aphanitic mod hard siliceous weakly sch (at 55 to the ca,) strongly ser ground mass, v strongly a micro frac pll fol w ser, and minor calc Py frac fil, w a few (5%) small qtz phenocryst

crysts to 25%

and v faint remnant calc replaced fspr pheno-

665

- 669.5'

# DDH JL-85-B1

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665	- 669.5	•	-numerous intensely sil zones around frac -overall Py content, 0.5% vfg diss Py throughout rock and as frac fil -from 665 to 665.5', a strongly sil zone around frac to 0 to 20° to the ca, locally Py to 1% as blebs to 1/8" along frac -at 668', 2" intensely sil halo around qtz carb fil frac at 80° to the ca, w 1% vfg diss Py in silicified halos
669.5	- 672.5	T	<pre>-altered (serz, chlz) intermediate ash tuff or arg eq -at 669.5' to 670', a few 1/4" qtz calc ser vn pll fol -at 672.4', 2" zone w numerous thin 1/2" qtz and calc vn pll bd -rather arb contact w underlying unit. -rock v thinly bd (1/32 to 1/2") bd v well dev at 50° to the ca, consists of interbd of a dark to med green v soft strongly chlz aphanitic ash tuff or arg, and lighter greyish green strongly serz ash tuff or arg -appears weakly sch pll to bd -chlz bd 60%, serz bd 30% serz zones appears to be alteration halos around frac in places -contains 10% thin calc stringers and seams to 1/16" pll bd -contains a few qtz calc vn pll to bd -mod frac pred pll fol, w calc, chl ser frac fil -Py to 0.5% as occ thin seams pll to bd and minor frac fil, minor vfg diss minerali- zation</pre>

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## DDH JL-85-B1

672.5 - 677'

-altered (serz, carbz) and. tuff -rock a light green, v soft, strongly serz (mod chlz in places) thinly bd (at 50 to the ca, appears sch pll to bd) and. ground mass w 20% small (1/32") white calc blebs elongate pll fol lending tuff appearance to rock -numerous thin calc seams to 1/16" pll fol ( to 5%) -mod frac pll bd, w calc, minor chl and ser frac fil -appears strongly carbz in places w vfg diss calc to 15% -0.25% Py as diss blebs to 1/16", and occ frag appearing blebs -at 676.5', 1" calc vn pll bd -arb contact w underlying unit

677 - 682'

-chlz carbz and. tuff to lapilli tuff -dark green, vfg to aphanitic, v soft v strongly chlz, v strongly carbz (diss vfg calc to 20%) and. tuff to lapilli tuff -bd and pll sch at 55 to  $60^{\circ}$  to the ca, -contains 10 to 15% elongate pll to fol clots / blebs of pred calc, occ w minor qtz and Py, to 1/4", that resembles a lapilli size tuff frag, although maybe boudinaged or brecciated interbd -numerous thin grey calc (occ w minor qtz ) seams to 1/4" pll fol -numerous thin light grey aphanitic ser rich /bands pll fol to 1/4" ( to 10% of rock increasing in frequency towards 682') -Py to 1% as thin seams pll fol to 1/16" occ w minor qtz carb vn and frac fil

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677 - 682' -mod to strongly frac, pred pll fol, w calc minor chl, ser, and Py frac fil -at 679.2', a few 1/4" qtz calc vn pll bd -from 680.5 to 681.5', numerous 1/4" to 1/2" pred calc w minor qtz vn pll bd to 10% of rock, thin ser bands increase to 15% of rock -from 681.5 to 682', strongly chlz, w thin hard grey granular appearing carb seams to 1/8" pll bd, and occ large frag shaped blebs to 1/2", w 3% Py as thin seams pll fol and fg diss mineralization

682 - 685'

685

- 688'

-intensely serz, carbz, intermediate ash tuff or epiclastic arg eq -rock is v thinly bd at  $65^{\circ}$  to the ca, (bd from 1/16 to 1/4") pred a greenish grey to pinkish grey intensely carbz (w vfg diss calc to 25% of rock) serz aphanitic or arg rock -banded bd appearance due to alternating bd of pink v ser rich and grey ser carb rich rock -mod to strongly frac pred pll sub pll fol w calc, minor chl, ser, Py frac fil - a few thin calc stringers pll fol, a few small 1/8" frag appearing calc blebs -a few 1" calc vn pll fol -0.5% Py as vfg diss mineralization and occ thin seams to 1/16" pll bd -at 682.8', 1" calcite vn pll bd -at 683.2', 1/2" qtz calc vn pll bd -at 683.5', 1" chl band

-serz carbz dacite to and. tuff -v thinly bd (1/32" to 1/4") light green strongly serz, carbz dacite to and. tuff comprised of a light green strongly serz

685 - 688' ground mass w 15 to 20% thin carb (calc some minor dolomite ) 1/32" seams pll to bd and small tuff appearing frag pll to bd -weakly to mod frac pred pll fol w calc frac fil, bd slightly kinked, crenulated in places -Py to 1% as occ frag appearing blebs to 1/8", and thin seams ass w calc to 1/8" pll fol -from 687 to 688', locally darker green, strongly chlz -sharp contact w underlying unit 688 - 695.5' -strongly sheared, carbz, serz, intermediate vol (and.) -dark grey to greenish grey intensely altered and. -strongly sch at av. or of  $55^{\circ}$  to the ca, although varies locally from 40 to  $70^{\circ}$  to the ca, w strong kinked, and crenulation in places, and offsets along frac of up to 1/2" -v strongly serz, and v strongly carbz, (really a ser - carb sch), but w a weak faint remnant fg crystalline texture -rock composed of apprx 40% ser, 40% calc, and 20% chl -rock is strongly frac at ran or w pred calc frac fil -a few thin calc vn, usually highly contorted to 1/2" -trace vf diss Py -at 692', 1" brecciated calc vn at  $30^{\circ}$  to the ca, -from 694.5', to 695.5', v strongly frac at ran or w calc frac fil, frac offset .sch -contact at 695.5', is sharp, at  $20^{\circ}$  to the ca

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712 - 716.8'

-weakly chlz in places -v dirty appearing in places, resembles a greywacke - a few thin 1/4" calc vn pll fol -a few small grey cherty qtz frag -mod pervasive carbz in places w v fg diss calc and thin calc stringers pll to bd -appears to be weakly to mod sch pll bd -1% Py as vfg diss mineralization and microfrac filling, and occ thin slips pll fol -from 712 to 712.5', slightly darker green, weakly chlz -rather arb contact w underlying finer unit

716.8 - 721.5'

-serz ,carbz, dacite to and. tuff -rock a light greenish grey to grey well fol , bd appearing vfg strongly serz mod carbz dacite to and. tuff, calc to 20% as vfg diss blebs, weakly aligned pll fol, lends tuff appearance to rock -contains numerous 1/4" to 1/2" aphanitic light green ser interbd -weakly to mod frac at ran or w pred calc ser, and minor Py frac fil, -0.5% Py as vfg diss mineralization and occ thin seams pll to bd -sharp contact at 721.5',

721.5 - 727'

lapilli tuff to agg or epiclastic eq (wacke to conglomerate) -thinly bd (1/16" to 1/2") (bd v well dev at 55 to the ca, appears mod sch pll to bd) light green strongly serz relatively soft dacite to and. ground mass w 20 to 25% small (to 1/4", av 1/8 to 1/16") thin white to light green pred calc, some ser calcite (altered) elongate pll bd frag (lapilli size) -a few coarser agg zones where frag to 1/2" -a few qtz frag, often v cherty -bd is kinked, crenulated in places -rock is weakly to mod frac pred pll fol w calc, ser, minor Py frac fil -sulph content, 2% (1.5% Po, 0.5% Py) pred as thin 1/16" seams pll fol, minor diss mineralization, and a few Po frag to 1/8" trace Cpy w Po -from 721.5' to 722.7', v coarse agg or conglomeratic horizon, w pred hard beige ser-carb (dolomite) altered frag elongate pll bd to 1", a few v cherty grey silica frag, a few calc frag, a few Po frag to 1/8"

-mineralized serz, carbz, dacite to and.

frag locally to 40%, and sulph locally to 3% (2.5% Po, 0.5% Py) as thin seams to 1/8" pll fol, minor diss blebs, and occ frag appear ing blebs to 1/8" (some dolomitic frag maybe boudinaged or brecciated interbd as opposed to agg frag)

-from 722.7', becomes finer lapilli tuff -from 726. to 727', weakly carbz w up to 20% thin graphitic interbd

727

- 735.5'

-sheared altered (serz, carbz) diorite (or coarse crystaline dacite to and.) -rock a light green, strongly altered diorite to coarse dacite to and. flow -mod sch at or ranging from 55 to 65° to the ca,

-weak remnant fg to med g crystaline texture but pred overprinted by sch and ass v strong ser alteration

- 735.5'

727

-mod to strongly carbz w vfg diss calc to 30% as an alteration or replacement of fspr -contains 5% thin slips (less than 1/32") of unknown white to pale pink mineral elongate pll fol - a few 1/4" sub hedral to anhedral plagioclas phenocrysts -weakly to mod frac, at ran or, w pred calc frac fil -a few 1/4 to 1/2" calc vn at ran or -0.25% fg diss Py, and minor Py frac fil -at 728.5', numerous 1/4" grey calc seams pll fol -at 731', a few 1/4" calcite vn at irr or locally a few thin 1/8" aphanitic ser bands pll fol -from 731' becomes increasingly strongly sheared and sch w corresponding increase in intensity of ser and carb alteration, crystaline texture becomes increasingly overprinted, becomes more strongly frac w calc, chl, and ser frac fil, -contains a few 1/2 to 2" darker green chl shear zones -from 733', v strongly sch at  $55^{\circ}$  to the ca, intensely carbz w small 1/8" calc blebs to 40% (altered fspr), Py increase to 1% as vfg diss mineralization along sch planes. -at 735', 1" aphanitic dark grey intensely carbz and. xenolith -arb contact w underlying severely altered unit

735.5 - 738'

-sheared, sch chlz and. -fg (weak remnant crystaline texture) dark green mod sch at (60° to the ca,) and. or severely altered diorite -strongly chlz -strongly frac at ran or w calc frac fil -a few 1/4" altered fspr phenocrysts -a few 1" calc vn pll fol

- 712'

695.5

-weakly carbz and. -rock pred a light green fg crystaline appearing and. -weakly sch at 55 to  $60^{\circ}$  to the ca, although sch varies from 35 to  $60^{\circ}$ -weakly carbz w 5 to 10% fg diss calc in places -v weakly chlz -contains 10% small (less than 1/32") white slips/blebs of unknown mineral (fspr?) lending faint tuff appearance to rock, but exhibits a fg crystaline texture -contains 2 to 3% large 1/4" fspr phenocrysts pred subhedral -weakly to mod frac at ran or w pred calc, minor chl hematite frac fil -0.25% fg diss Py -from 695.5 to 698.5', strongly sch at  $40^{\circ}$ to the ca, (kinked, crenulated), locally v soft, v strongly chlz, and v strongly frac at ran or w calc and hematite frac fil -at 698.5', 1/2" calc seam at 20° to the ca, locally 3% fg diss hematite in host -at 702.5', 1" grey diffuse calcite vn -from 703 to 703.5', 1" calcite vn at  $0^{\circ}$ to the ca, w minor light green epidote altered fspr blebs -at 704', 1/2" bright light green calc epidote altered fspr vn/seam at 45 to the ca, -at 705', 2" irr grey calc seam -from 711 to 712', becomes v fg

712

- 716.8'

-serz, carbz, dac to and. lapilli tuff or reworked epiclastic eq (wacke) -rock a light greenish grey, thinly bd (bd v well dev at 55 to 65° to the ca, kinked and crenulated in places, and offset by frac ) strongly serz dacitic to andesitic ground mass w 25% v small (1/32" to 1/16") thin elongate pll bd tuff frag, pred light green ser and grey carb altered rock -mod frac and micro frac pred pll sub pll bd w calc, ser and minor Py frac fil

735.5 - 738' -occ thin aphanitic chl bands to 1/4" pll fol -0.25% Py as fg diss mineralization -at 737', 1/2" calc minor qtz vn at 45° to the ca

738 - 749'

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-serz, weakly carbz dacite -rock a fg (weak remnant crystaline texture) light green, strongly serz, weakly to mod carbz, (vfg diss calc to 10%) dacite ( to and. appearing in places where weakly ch1) -mod sch at  $55^{\circ}$  to the ca, -a few 1/4" andhedral to sub hedral fspr phenocrysts scattered throughout unit -mod frac, pred pll sch, w calc, minor chl ser, Py frac fil, frac appear to weakly brecciate rock in places -a few thin qtz calcite vn pred pll fol -from 738 to 739', weakly chl, locally v strongly frac, w chl, calc, and qtz frac fil, frac appear to weakly brecciate rock locally v strongly carbz, maybe v minor amts of carbonaceous mat.as frac fil locally -from 739.5' to 740', a few 1/4" calc seams pll fol -from 742 to 742.5', 6" coarse grained granula qtz calcite vn at 20° to the ca, -from 742.5', 743', numerous 1/4" qtz calcite vn pll fol to 10% of rock -at 745.5', a few 1/2" frag of cherty grey rhyolite ? (maybe a brecciated qtz vn) -from 745.5', to 749', becomes slightly darker green, more chl, v soft, strongly altered, more strongly frac at ran or w calc frac fil, numerous qtz carb vn to 1" and 5% -at 746', 1" qtz calc brecciated vn frag -from 746.5 to 747', numerous l" qtz calcite vn pred pll to fol, to 25% of rock -at 748 and 748.3', 1" qtz calc vn pll sch -overall sulph content 0.25% Py as frac fil and mineralization ass w thin calc seams

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- 767.5'

749

-mineralized serz carbz dacite to and. lapilli tuff to agg, or eg epiclastic rock (wacke to conglomerate) -rock comprised of a v thinly bd (1/16" to 1/4") light grey to light green altered (pred v strongly serz, and in places mod chlz) dacitic to and. ground mass/matrix, bd v well dev at 65° to the ca, -contains on av. 30 to 40% clasts/frag ranging in size from 1/16" to 1/2", w fine lapilli tuff bd in coarser agg bd, frag pred a light greenish grey to white v calc rich /altered rock, and a light green serz rock -frag are elongate pll to fol, v pyroclastic appearing, frag content ranges from 15 to 60% of rock -a few white to blueish white gtz frag -a few grey cherty frag -rock is pred weakly to mod frac at ran or w calc, chl, ser and minor Po-Py frac fil -pred a agg appearing, w 20% small frag (less than 1/8") and 10% larger frag (to 1/2") -overall sulph content, 2%, 1% Py and 1% nonmag Po, w trace Cpy, occ as thin 1/16" seams pll to bd, minor vfg diss mineralization and occ frag blebs to 1/8" -from 749 to 752', frag only 10 to 15% of rock, a fine lapilli type tuff, v clastic appearing in places, sulph locally only 0.5% pred Py and trace nonmag Po as thin seams pll to fol and micro frac fil -from 759 to 759.5', aphanitic / arg, v soft intensely chlz and carbz interbd, -from 759.5', to 762', dark green prominant alteration of ground mass is chl -from 762 to 762.5', thin vfg granular appearing grey calc rich wacke interbd -from 762.5 to 767.5', pred a f lapilli tuff, frag only 1/8", to 20% of rock, becomes increasingly finer towards 767.5', arb contact w underlying unit

767.5 - 776'

-interbd arg (or ash tuff) -rock consists of v thinly bd (to 1/2") (bd v well dev at  $70^{\circ}$  to the ca,) pred 1. light grey to greyish green v ser rich arg or aphanitic serz ash tuff to 50% of rock and -2. darker green to dark grey v chl arg or chlz ash tuff, to 40% of rock -contains a few slightly coarser 1 to 2" dirty and. tuff or wacke interbd to 10% of rock , usually v calc rich -all bd are mod to strongly carbz (v calc rich to 20% as vfg diss mineralization) -mod to strongly frac at ran or w pred calc, minor chl, ser, Py frac fil -a few 1/4" cherty silica interbd in places -bd is kinked, crenulated in places -a few chl interbd maybe weakly carbonaceous (up to 5%) -overall sulph content, 1% Py, as fg diss mineralization, frac fil, and thin seams pll to fol -at 767.5', a few 1/4" grey hard cherty interbd -from 770 to 771', fg diss Py locally to 2 % -from 773.6 to 774.2', strongly carbz, chlz and. tuff interbd. -from 774.2 to 776', graphitic arg interbd to 30%, ass Py increase to 10% as blebs elongate pll bd to 1/2", w numerous frag appearing brecciated calc rich and. tuff interbd to 1/2"

776

- 780'

-greywacke to lithicwacke -thinly bd (1/16" to 1/8") bd v well dev at 70° to the ca, greywacke-lithicwacke or lapilli tuff, w a v soft v fg to aphanitic mod to strongly serz matrix/ground mass and 50 to 60% small (to 1/8") pred light green ser and calc rich frag/clasts slightly elongate pll to foliation -3% Py as frag appearing to 1/4" and thin seams pll to bd, minor frac fil

776 - 780' -rock is mod frac at ran or w pred calc minor Py, chl, and ser frac fil -at 777', 3" interbd of fg to med g appearing intensely carbz and chlz rock? -a few dark black graphitic arg interbd to 1/2" -a few small dark green chlz clasts/frag a few grey cherty sil frag -at 778.5', 1/2" graphitic arg interbd w Py blebs to 1/2" a rims -from 779.5', to 780', rock becomes intensely carbz (diss calc to 30%) 780 - 784' -mineralized graphitic arg. (w ser arg interbd -pred a thin bd jet black hard graphitic (to 60%) arg, bd v well dev at  $70^{\circ}$ to the ca, -10% Py as thin semi massive bands to 1/4" pll bd, vfg diss mineralization, and small 1/8" spherical nodules some secondary frac fil -contains 3 to 5% small 1/8 to 1/4" qtz pods and thin silica seams often in close spacial association w Py -contains a few thin calc seams pll to fol -mod frac at ran or w calc, hematite, Py frac fil, -contains 10 to 15% thin light green v ser rich relatively hard arg interbd w up to 10% vfg diss Py -at 781' and 781.5', locally abundant hematite frac fil & thin vuggy hematite seams pll bd -from 783 to 784', contact with underlying dacite, grey intensely carbz v soft rock w 10% diss Py bleb to 1/4", rock weakly brecciated by thin graphite chlorite seams

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- 795'

784

-serz, carbz dacite -rock pred a vfg light green massive to v weakly sch in places (at  $70^{\circ}$ to the ca) -mod serz, mod carbz dacite -carbonate is vfg calc occ as thin v small acicular crystals, often in radiating aggregates, to 20% of rock -rock appears mod autobrecciated in places w v faint frag appearing blebs to 1" set in a ground mass of similar composition, frag are elongate pll to weak fol at 70° to the ca, -rock is mod frac, pred pll fol, w calc, chl, minor hematite and Py frac fil frac also appear weakly breccia rock in places -contains a few l" v soft chlz shear zone pll fol, -intensely carbz from 784' to 787', -contains 0.5% Py as fg diss mineralization and frac fil -from 789 to 790', appears mod autobrecciated w faint 'frag' to 1" elongate pll to fol set in a slightly darker but similar composition material, frag matrix ratio is 90/10 -at 790', 2" zone where brecciated darker more chl rich seams to 1/4" pll fol, frag appear bleached, hard, and dolomitic -at 790.3', 1" chlz shear zone at 70° to the сa -appears bleached in places where faintly autobrecciated -from 790.5 to 791.5', appears weakly autobrecciated w slightly harder, bleached appearing frag to 2" in a similar ground mass, -791.7 ', 2" chlz shear zone at  $70^{\circ}$  to the ca, -from 793 to 795', more strongly frac at ran or w calc, hematite, and Py frac fil, locally a few 1/2" grey calc vn at ran or, locally appears faintly autobrecciated, w slightly darker more chl seams to 1/4 " pll fol brecciating rock -arb contact w underlying unit

- 840'

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795

-fg dark grey and., autobrecciated in places (similar to unit intersected from 465.5 to 615', in hole JL84-A, maybe a recrystalized metasediment) rock pred a dark grey to dark greenish grey vfg and. -weakly sch/fol at 45 to 70° to the ca, av. or is 65 to the ca, fol somewhat contorted in places -relatively hard, mod to strong but patchy carb alteration w vfg diss calc to 20% of rock in places -appears 'crystaline' w 20% vfg v small acicular often radiating clusters of white fibrous mineral (less than 1/32") maybe a carb or a fspr, but simultaneously rock appears relatively granular w white fibrous mineral surrounding vfg 'grains' -v weakly serz and chlz in places particular where autobrecciated -autobrecciated zones common, w thin (to 1/8") slightly darker more chl faint seams pll sub pll fol brecciate host with frags 1 to 2", av 1/2", elongate pll to fol, of host rock -where strongly brecciated, often get increase in ser and chl alteration of brecciated frag -rock is strongly frac w both chl and weakly carb autobrecciating frags & thin randomly or calc, hematite, Py and chl fil frac -contains a few irr qtz calc vn at ran or -is pred weakly autobrecciated w frag to 3 to 4", and a few more strongly brecciated zones -overall sulph content is 0.25% Py as fg diss mineralization, ass pred w weak brecciated zones, and Py frac fil ass w calc -at 796', 1/4" green chlz pheoncrysts? clasts ? -at 799.5', 1" light green weakly serz 'frag' in autobrecciated zone -from 802 to 805', weakly autobrecciated w weak corresponding increase in ser and chl alteration, locally 1% Py as frac fil ass w calc seams -at 805', 2" fg granular calc vn at  $65^{\circ}$  to the ca,

- 840'

795

-at 806', a few 1 to 2" lighter grey green weakly serz autobrecciated frag -from 807 to 808', weakly autobrecciated weakly serz, foliation is mod dev at 70° to the ca, -at 808 ' l"diffuse grey calc vn at 70° to the ca, -from 809 to 809.5', weakly chlz and serz autobrecciated zone -from 811 to 812', numerous 1/8 to 1/4" calc seams pred pll weak fol at 65° to the ca w minor ass Py, and a few weakly serz and chlz frag to 1" -at 812.5', 1/4" calc chl vn pll fol at 40<sup>°</sup> to the ca, -from 812.5 to 813', weakly chlz and serz auto brecciated zone -at 813.5', a few 1/2" chlz and serz altered 'frag', locally offset along frac -from 815.5 to 816', mod chlz zone -from 816 to 817', numerous l" irr fg granular calc vn at ran or to 10% -at 818.5', 1" irr calc vn at  $0^{\circ}$  to the ca, -from 821.5', 823', locally v strongly brecciated w v soft dark green strongly chlz and carbz frag to 1", av 1/4", to 40% ; set in a 60% chl ground mass/matrix, well dev fol at  $55^{\circ}$  to the ca, locally v strongly frac at ran or w calc frac fil -at 823.5', 1/4" hard dark black chl (and minor graphite) band at 60° to the ca. -at 825', 1" strongly chlz band at 55 to the ca, -at 828', to 828.5', strong frac pll fol locally at  $60^{\circ}$  to the ca, w calc frac fil locally weakly autobrecciated and chlz -from 829 to 829.5', mod autobrecciated light green, weakly chlz and serz frag av. 1/2 to 1", frag matrix ratio locally 90/10 -at 831', l" irr calc vn -at 832.2', 1" grey calc vn at  $60^{\circ}$  to the ca -at 834', 1" qtz carb vn cross cuts fol at  $70^{\circ}$  to the ca -at 836.5', 1/2" carb-ser seams pll fol at 55° to the ca, locally appears slightly coarser, better dev fol/sch at 55° to the ca -at 836.8', 1/2" calcite - chl seams at 40

795 - 840' to the ca, locally minor Py frac fil blebs to 1/8" w calc -from 837.5 to 839.5', mod to strongly breccia ted frag av. 1/2", light green, mod chlz, and serz, locally frag matrix ratio 90/10 -at 838.2', 2" calc vn, highly contorted, cross cuts fol at 50° to the ca, locally mod fol at 55° to the ca, 840 - 848' -carbz serz, dacite -rock pred a light green v fg relatively hard sil mod serz dacite -only v weakly sch at  $65^{\circ}$  to the ca, -weakly carbz, (to intensely carbz from 847 to 848') with vfg diss calc to 10% -strongly frac at ran or w pred calc, minor hematite, ser, chl and Py frac fil frac appear to brecciate rock in places -appears v faintly autobrecciated in places -a few 1/2" to 1" calc seams at ran or -0.5% fg diss Py and minor Py frac fil -a few 1/4" white anhedral to sub hedral fspr phenocrysts -at 842.5', 1/2" calc vn -from 842.5', 843', intensely frac at  $0^{\circ}$ to the ca, w calc - hematite frac fil -at 845', 4" qtz vn at  $65^\circ$  to the ca, w a few 1" intensely serz frag of host rock, w minor diss Py at vn rims -from 845 to 846', v strongly frac at ran or, frac appear to weakly brecciate rock, w chl, calc, minor hematite frac fil locally dacite slightly coarse, contains acicular fibrous appearing clusters of small (less than 1/32") white carb ?/fspr? crystals -from 846 to 846.7', strongly brecciated zone w 1/2" elongate strongly carbz dacitic type frag to 40% , set in a graphitic chl ground mass/matrix (60%), well fol, as exhibited by orientation of frag at  $60^{\circ}$ to the ca, Py to 5% locally as semi massive seams pll fol ass w graphitic matrix

840	-	848'	-from 846.7 to 848', v strongly carbz Py increase to 1% vfg diss mineralization brecciated contact at 848' -
848	-	850'	-autobrecciated carbz dacite -rock consists of 40% frag, usually elongate pll to weak to mod fol to 65 to 70° to the ca, frag to 2" av. 1/4" to 1/2" of light green strongly carbz (diss calc to 30%) weakly serz dacitic frag, set in a light grey slightly harder more siliceous but v similar matrix (60%) -frag- clasts contact are v faint, appears to be autobrecciated, or some type of conglomeratic horizon -from 848 to 848.2', brecciated by thin dark grey to black chl (w trace carbon)seams pll fol w ass 3% Py -Py to 0.5% as diss mineralization in frag -mod frac at ran or w calc frac fil
850	-	854'	<pre>-intensely carbz dacitic rock (brecciated in places) -rock pred a vfg light greenish grey dacitic rock -v weakly fol (sch) at 65° to the ca -intensely carbz, w fg diss calc to 50% of rock -a few 1/4" anhedral to subhedral fspr phenocrysts -mod frac at ran or w calc, ser, Py frac fil -rock is weakly serz in places -appears weakly autobrecciated in places w faint frag to 1" set in a slightly darker grey matrix of similar composition -Py to 1% as vfg diss mineralization, occ minor frac fil -from 853 to 854', mod autobrecciated, frag elongate pll fol at 65° to the ca, to 80%, set in a matrix of similar composition numerous thin 1/4" calc seams pll fol, occ w minor black chl</pre>

DDH JL 85	B1	
, 850 –	854'	-arb contact w underlying unit
854 -	857'	<pre>-intensely brecciated, altered rock -intensely brecciated, altered rock pre- curser probably dacitic -at 854', frag/matrix ratio is 50/50, w 50% small (to 1/2") light green intensely carbz, weakly serz dacitic type frag and 50% darker grey vfg weakly chl and calc rich matrix -from 855 to 857', frag become indicernable becomes a strongly sch strongly chl - ser- carb altered rock, w a few thin 1/2" to 1/4" calc vn pll fol -from 856.5 to 857', rock becomes hard grey, appears weakly sil -rock is mod frac, pred pll fol, w calc hematite, Py frac fil -Py to 0.5% pred as diss mineralization and frac fil</pre>
857 -	869'	<pre>-intensely brecciated carb rock, (or totally carbz dacite) -rock pred a relatively hard, white to dark grey, carb -is fg, granular appearing, appears to be pred dolomitic -intensely brecciated, by thin light green ser seams to 1/8" at 65° to the ca, varies locally from 50 to 70° to the ca, -carb content approx 70%, and thin ser seams to 30% -appears v agg in places, w elongate pll to fol brecciated frag to 1", av 1/8" to 1/4" -contains a few 1/2" secondary qtz calc vn at ran or -rock is intensely frac pred pll fol, w ser calc, minor qtz, Py frac fil -Py to 0.75 % as vfg diss mineralization ass w carb, and minor frac fil</pre>

857 - 869' -from 857 to 859', numerous irr 1/4 to 1" grey blebs of sil, proximal to qtz fil frac to 10% of rock -at 861.5', 1/2" qtz minor pink calc vn cross cuts fol at 45° to the ca, -at 863', 1/2" qtz minor pink calc vn cross cuts fol at 60° to the ca, -at 864', 1" irr qtz and hard white magnesite vn cross cuts fol at  $75^{\circ}$  to the ca, -at 867', a few 1/4" qtz vn at 70° to the ca, -sharp contact at 869', 869 - 877' -carbz, serz, to chlz to and. -rock pred a vfg, light green, (serz) to med green (chlz) strongly carbz (w 25% diss vfg calc) and., v soft -mod sch at 70° to the ca, becomes more massive appearing towards 877' -numerous thin 1/4 to 1/2" calc and gtz calc vn pll fol to 10% of rock -rock is strongly frac pred pll fol, w calc ser, chl, and minor qtz, Py frac fil -from 869 to 873', v well fol, appears almost bd, dominant alteration is sericite becomes more chl from 873' to 877' -contain 0.5% fg diss Py -at 869' l" qtz hard white magnesite vn pll fol at 70° to the ca -at 870', 1/4" black qtz seam pll fol -from 869 to 870.5', qtz calc and harder magnesite vn pll fol to 1/4" and 20% of rock -at 871.5' 1/4" black qtz and calc vn pll fol -from 873.5', to 874', numerous 1/2" calc and minor qtz vn pll fol to 15% of rock 877 - 887' -andesite -fg light to med green weakly chlz and. -weakly sch  $70^{\circ}$  to the ca, -contains 10% small white fspr blebs that lend tuff appearance to rock, but has a fg crystaline texture



- 887'

877

-strongly frac pred pll fol at  $70^{\circ}$  to the ca, -frac appear to weakly brecciate rock in places, pred chl and calc frac fil, occ hematite, Py -a few 1" white calc vn at irr or often w minor light green epidote -0.75% Py, pred as frac fil, occ diss cubes to 1/8" -at 881', 6" highly frac zone with chl calc, and epidote fil frac to 1/4", a few Py blebs to 1/4" along frac -from 884', to 884.5', numerous contorted 1/4 to 1/2" epidote- calcite-chl vn w occ Py blebs to 1/4" -from 884.5 to 887', v strongly frac, w chl and calc frac infilling to 1/4", appear to weakly brecciate rock, locally Py to 1% as frac fil, and diss blebs to 1/8"

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н	OLET	NO.	JL- BA	82			PROJECT: JIM'S LAKE	PAGE NO:	o	F	7		-	_	
c c	OORC		LLAR EI TES: LS	LEV.; 2E.;	; 4 al 24+0,	o N	ground GROUND ELEV.; DATE STARTED: DECEMBER 12, 1984 N. E. DATE FINISHED: DECEMBER 15, 1984	REF. TO CLAI		ER:					•
11			(N )N: - :	ORTH	4 GR	(פיי	BEARING: 360° TOTAL DEPTH: \$61	LOGGED BY:	7	-Ivof	२				
CTION	AL u	TER	ATION	TURING	NERAL	01067	COMMENTS: DIP TESTS (CORRECTED): 226', 56° 420'- 52° Sói' - 51° - LOST 116' OF N CASING DOWN. HOLE 9 PLASTIC PIPE TO SOO'. (BUT MAY BE BLOCKED @ SOC Sói' - 51°	AVE CORE REC'Y / HOLE	¥ PHIDES	LING	CORE	ORE	MPLE ERVAL	REC'Y P INT	ESTI- MATED
- 2∞'	CHLOR	SERIC	CARBO	FRAC	ž	GE	DESCRIPTIVE GEOLOGY (SEE ATTATCHED TYPED NOTES)	MAG. SUS. (100 20 SCALE) 0.5 1.0 5	SULI	DRI	% RECO	00	SA	% F SAM	
210				*			<u>0'- 223 - OVERBURDE-1</u>								
- 220'-	-					$\Omega$	- cored through hd. black vfy bio rich graywacke boulder — 18-15 array area and dia author antiber			221		Ba	221	1007	SALTED CAMPLE
	F		I	1	Py	1	- gre-cale 'va' z 57 Py 223- 247.5 INTENSELY CARBONATIED, MINERALIZED ARGULITE	-0.1	1.	224'	10070		223	1007.	LAS CHER)
- 230'	E ¥ F H -	N E A K	N T E N				- cale viring to 2010 - cale-Ry 'verns - chlorible arg interbed - think bedded v. coff intercely carb <sup>a</sup> arg. E 1070 cmall ate-cale. Ry blobs (may be hiff frame)	         		226	10018		226 221	10n¶2	
-	2 - 2 - 5		Ē	/	0.1	1	- alz-cale vns E 10% vla dise Ry - hard beize dol. uns	• 0.1	27		1001,		735	100Z	
- 240'	A M M A A	W E		1	R		-locally appears v. clashe. E 1070 small gtz. cale. Ry blebs	1 1 • 6-1		237	10070		240'	100%	
		ĸ	NSE	H	5	1.2	- contorted chert interbed - tocally appears while bracciated by this carb-ser seams - cherty glz-dol vy z 5% Py, 1% Po	D		243			245	100%	
- 250	- 2	W, E	5	X 1	The still of	11/14	becomes increasingly dolonitic oppenning - qc vns z 57. Fy <u>247.5-270.5' MinteracizED interBedded arguittes (conterted, shumped)</u> - thigh bedded, interbedded light gray-green arg., chloritic arg, dolonitic arg, cherty org. & grandar - gte-cale-dol "venc/beds	9 1 1 5 • • 1			100%		247.5 249.5	100%	
	- 8 6 8 2 0	A K W	TRONG		tine pe	14	- qte-calc uns bookly to BoTo - chect interbeds - chect interbeds - slump breccisted	1	37.	253			-259	1007.	
260	10	E A K	!		i i i P	11	- chect interbeds locally 1570. = 57. By. some mte	, 08		257' To 267	100%	V	258' <sup>To</sup> 261'	100%	

·	HOLE NO. JL 84 82 CASING COLLAR ELEV., 4 a						PROJECT: JIM'S LAKE	PAGE NO:	0	F 7					
	CASIN	G COL	LAR E	LEV,;	4'a	9	GROUND ELEV.; DATE STARTED: DECEMBER 12. 84	REF. TO CLA	M CORN	ER:					•
	COORI	DINAT	ES: LS	2E - 24	+ 00	N	N. E. DATE FINISHED: DECEMBER 15.84	SCALE: I" =	່ຈ່						
	NCLIN		N: -5	5			BEARING: 360° TOTAL DEPTH: 561	LOGGED 8Y:	D. M	·Ivol	R				·
NOIL		TERA	ATION	URING	ERAL	-067	COMMENTS:	AVE CORE REC'Y / HOLE	IDES	ING	DRE ERED	а П П	PLE	C'Y. INT.	ESTI- MATED
SEC1	CHLORIT	SERICIT	CAREON	FRACT	WIN	GEOI	DESCRIPTIVE GEOLOGY	MAG. SUS. (LOG 20 SCALE) 0.5 1.0 5		DRILL	RECOV C	C OI	SAM	% RE SAMP	
	THTERB	N E A	1 STR				- del-code -gra bollon & othery <u>247.5-270.5' MINEGALIZED INTERCEDDED ARGILUTES</u> & while & block (Z 37 mte) chost interbeds locally to 40% - locally v. shamped, appears 'agglanoachic'	10.8 1 1 1 1 1 1.5	37.		1007.	BQ	-361	1007.	
- 270	E Das To bl	ĸ	076	1111	المتحرين		: qc 'kds/vois' - locally bd is vy contexted, elunped > black (c 3% nte) chat leads to 20%	/ /		267			268	100%	
	S T R		5 R -	1.1.1	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	11234	(del & cele) in chlorinic ang. 275: 278.5' CARBONATE RICH ARGULLITE	• • • 1	0.57		1007.		275	100%	
Ē			STR 1	11	Po Py		- few small calc. Ry. Po blebs		R.	211			278-5	100%	
- 280	TNTER O	W E A	4 0 D	1. V.	1. 00		Dicely ang. dolonitic angle delonitic angle the interbeds to 257. <u>Simmed. BRECCIATED LITHIC WARKE TO CONSCOMERATI</u> Nocelly Hack (215% ate) chert interbeds to 257. <u>HORIZONS</u>	E2	17.		100%		282	100%	
	E D S	W	r R A T E	K.1	1. R4	1000	socialitie and a second state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state o	0-2	27. 78 21	287			285	100%	
- 290	-201	L A K		1.11	an		dolonite beds. E dert to 25%. E warke interbeds	1 1 1 1	57.		1007		289	1007.	
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- 3'0' - - -		-	V			/.	- alcome na	• • • 2     	0.57		100%		ئىر2ىد	1007.	
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	HOLEN	10.	[L·8	4 · B	z		PROJECT: JIM'S LAKE	PAGE NO: 3	0	F 7					
	CASING	COL	LAR E	LEV,;	4'	bove	gra GROUND ELEV.; DATE STARTED: DEC. 12. 84	REF. TO CLAIN	CORN	ER:					
1	COORD	INAT	ES: Le	52E.	24	1004	N. E. DATE FINISHED: DEC. 15.84	SCALE: 1"3	10'						
	NCLIN	ATION	1: 	- 55	•		BEARING: 360" TOTAL DEPTH: 561	LOGGED BY:	D. M	1+[10	R				
NOI					RAL	-067	COMMENTS:	AVE CORE REC'Y / HOLE	4 DES	LING RVAL	ORE ERED	RE ZE	APLE RVAL	EC'Y INT	ESTT- MATED
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ł			N G	X	P.	/	- chloritized shear zone - chz-cale vn	4						1007.	
- 330	i l		1		R4.	1	t ate-cck. vas	• 0,1					_332		
Ł	T R		N. 5 T	Y		5		1 1 1 0.1	0.57		100 6		-		
ŧ	4		R D N	18	. K					-337				1007	
- 340	'		а ———	1	·   ·		- and the (C. w. ) will bear to 252 340-356.7' CHLORITIEED, CARBONATIZED ANDESITE TUFF	• 0-1					340		
È.	W E A		Y C D				- and when trype , for this to est	i i	0.5%		1009,				
F	×		T					0		347'			341		
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- 530	DERAT		T R D N G		, ', ,			0.1	0.5%		1007.				
ŀ	E	-+				1/1	well dow half on the 356.7-377 INTENSELY CARBONATITED ANDESITE ASH TUFF			357			356.7		
-360	N E A		I N T		P.		- calc-gle skringers, z strong chi alt halos i 270 ly - gre-cale vn	• 0-i 			. 1		11		
	X T O		L N S E	11		. The	- strongly chlorifized zone = 57. diss mile	i i • • • • 1	0.52		100/0			1007.	
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- 370	- D E R A		Î N T E		Py	1 1	- dobnitic bands	• 0.1 1 1			1007.			100%	:
F	E		s E	11		R	1 - beadding locally contorted f gle-cule uns	• • .1							
	N of		4		P	R	311- 406.5' CHLORITIEED, CARBONATIZED ANDESITE ASH TUFF		0.257.	377 To	1007.	\	371		

]	HOLE	NO	Jι- в4	• E	32	ł	PROJECT: JIM'S LAKE	PAGE NO: 4	0	F 7					
	CASIN	G COL DINAT	LAR EI	LEV, Szf	.; 4 ⊃4+	above aanl	gr. GROUND ELEV.; DATE STARTED: DEC. 12. 84	REF. TO CLAIN	CORN	ER:					•
	NCLIN	OITAN	N: -	55'	) )		BEARING: 360* TOTAL DEPTH: 561	SCALE: 1 = 1	D.M.	el vof	ι				
	AL	TER	ATION	ij	T	Τ	COMMENTS:	AVE CORE	T	T	T T	r	[	[	FSTI
z			w		AL	5		REC'Y / HOLE	E S	9 7 8			<u>ہ</u> ب	ΥË	MATED
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- 380	M			X	Py	1	- 913- COLE VIS Well His ted & 60° CA (bedding) 317- 405.5' CHLORITIEED, CARBONATIZED ANDERITE ASH TUFF	••••••••••••••••••••••••••••••••••••••		ł		Ba	•		
ł	Ð.		0		; .R		- cale un 2 manor diss mte	1	0.25%		1007.				
F	-		E		, P.	15	-gc vn - contarted yte-cale vns z 190 fy	• D• l	0.5%	381					
- - 390	T o		RA		, ; : , , ; ;	11	- locally calc stringers to 2070 of rock								
}	N N		T E		Pr.		- Fa granular gla-cale uns z 370 mte. 370 Pa	• 0-1 1					312'.		
[ _	G		1	17			- callite years to 60% of rock				1007.			100%	
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- 400			D E R	1	12	Ø		0	0.25 h						
	O N G		A T	1	, n , R	-	calcite stringers to 607. of rock		0.5 *		1007.				
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-					• P.y	1	Schistore, @ 60° to ca. 406.5. 428 WKLY CHLORITIZED, STRONGLY CARBONATIZED ANDRESTE			407					
- 410'	- 2		9 0 D	1	- cr	1%		0							
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- - - 43-'		┝╾╺┥╌			-:Kj  _ 0	1	think by dell' gradmass = 428.443' AGGLOMERATIC ANDESITE						428	1001+	
- 150	S T R		D T R	lr V	ا"ي <sup>-1</sup>	11	- ghi-cale vn	• 0. (   						1007	
	0 7 0		0	de	ŀ	1,	-locally logs contain 1070 to diss inte -locally appears slumped, e highly contorted bedding	1	0.57		1001+		435		
-			5	14		1	cale-dd vn	• D-1	• •	437'			- 1		
440	↓		1	$\mathbb{N}$	1			0.1		To 447'	1007.	٧	T843'	100/+	

н	DLEN	10. JL	- 84 -	82			PROJECT: JIM'S LAKE	P.	AGE NO:	5 01	F 7					
C/	SING	COLLA	REL	EV.; '	4'a	ove	gr. GROUND ELEV.; DATE STARTED: DEC. 12. 84	R	EF. TO CLA	MCORN	ER:					•
сc	DORD	INATES	: L5:	2E. 2	2440	ыN	N. E. DATE FINISHED: DECHIS 84	s	CALE: 1" =	10'						
IN	CLIN	ATION:	- 5	s° م		_	BEARING: 360* TOTAL DEPTH: 561	L	OGGED BY:	D. M.	~I V01	९			_	
	ALT	ERAT	ION				COMMENTS:	AVI	E CORE							ESTI-
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- 440	5	Ę	1	$\overline{\mathbf{C}}$	ĥ,	1,	- qc νΛ	0.1	td	1.00	<u>†</u>	t	BQ	- A.	10-7	
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## DESCRIPTIVE GEOLOGY NOTES

### HOLE JL-84-B2

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0	- 223'	-overburden -from 221 to 222.8', -cored through a hard, black vfg biotite rich (25%) grwk bolder (salted sample) -from 222.8 to 223', a few 1/2" to 1" granite granite gneiss, and diabase-gabbro cobbles
223	- 247.5'	<ul> <li>-mineralized, intensely carbonatized, arg (or volcanic tuff eq)</li> <li>-rock pred v thinly bd (1/32 to 1/4", bd v well dev at 55° to the ca) light greenish beige to beige arg</li> <li>-intensely carbz (may be a chemical carbonate as a pervasive alteration, w diss calc in thin 1/32" bd/bands calc to 25% of rock (overall carb content approx 30 to 35%)</li> <li>-occ harder beige dolomitic bd</li> <li>-weakly serz</li> <li>-tuffaceous appearing, w small (to 1/8", av. 1/16 to 1/32") elongate (pl1 bd) pred carb (calc, occ w minor qtz and Py) frags to 10% of rock (varies from 0 to 20%), a few qtz frag, occ rounded, clastic appear- ing in places</li> <li>-numerous (5%) secondary coarser calc vn pred pl1 fol, w ass minor qtz, Py</li> <li>-a few contorted (slumped-brecciated) zones, as exhibited by highly contorted carb vn</li> <li>-a few darker green, weakly ch1 interbd</li> <li>-rock is weakly frac at random or, w pred càlc, minor Py frac fil</li> <li>-rock is weakly brecciated in places, by thin highly contorted ch1 - calc - Py seams and infilled frac</li> <li>-contains minor vfg diss black mineral (biotite ?) elongate pl1 to bd</li> <li>-sulph content, av 2%, to 5% in places, pred Py, trace Po, occurs as v v v fg mineral ization ass w thin 1/32" calc bd/bands, and w calc frag, minor diss mineralization throughout rock, lending mottled appearance</li> </ul>

- 247.5'

223

to rock -at 224.5', 2" bd, dark grey granular qtz carb band w 5% vfg diss Py -at 226.7', 2" zone w 5% vfg Py ass w 25% calc vn pll to bd, and Py frac fil -at 228.2', 2" zone w 10% Py as seams to 1/16" of vfg mineralization ass w calc seams pll to bd -at 229', 4" dark green chloritic arg interbd (or alteration zone) -at 232.5', minor hematite frac fil, locally vuggy -at 234', a few dark grey fg granular qtzcalc vn, brecciated into 1/2" frag in places locally v clastic appearing w 10% small (less than 1/32") carb and qtz blebs/clasts/ frags -at 235.2', 2" zone w 1/4" grey cherty qtz and calc vn pll fol to 60% of rock, w 10% ass Py -from 235', carb becomes increasingly dolomitic -at 236', a few 1/4" hard beige dolomite interbd -at 236.5', 1" bd of vfg granular gtz-calc w 1/32" ser seams at rims -from 237 to 238', locally v clastic appearing, w 10% small 1/32" qtz, calc, and Py blebs pll to fol (wacke?) -from 239.5', to 240', locally v clastic appearing, w 10% small (less than 1/32") qtz and calc blebs -at 241', 1" qtz bleb elongate pll to bd -at 242', 2" contorted light green to grey chert w minor diss calc-dolomite, w minor Py-Po -from 242.5 to 243', rock appears weakly brecciated by numerous thin 1/32" chl -Py seams pll bd -from 243', begins to appear weakly brecciated by thin beige carb-ser seams pll fol (appears 'agglomeratic', w carb frags in sericitic ground mass) -from 242.5 to 245.5', highly contorted brecciated appearing cherty grey qtz and beige dolomite vn/bd w 5% Py, 1% Po, as thin seams pll fol and blebs to 1/4"

223 - 247.5'

-at 246.2', a few thin 1/32" bright light
green ser seams pl1 bd
-arb contact w underlying brecciated unit

-mineralized interbd arg (contorted,

247.5 - 270'

slumped brecciated) -thinly bd (to 1 to 2" av. 1/4" to 1/16" bd v well dev at 55 to 58° to the ca,) interbd arg, bd is slumped, highly contorted in places -comprised of, 1. light greenish grey to beige relatively soft arg to 50% - 2. soft, darker green weakly chl arg to 10% - 3. yellowish beige, hard v dolomitic arg to 10% - 4. black to grey to white cherty arg to 10% - 5. v fg granular appearing qtz-carb (calc and dolomite) bd/vn pll fol to 15% -pred a light greyish green to beige arg w interbd of dolomitic, cherty, and chl arg, as above -strongly slumped / brecciated in places, lends v agg appearance to rock, w elongate slumped frag pll to bd -mod frac, pred pll bd, although other or present, w calc, minor Py-Po, and gtz frac fil -numerous (to 15%) vfg granular calc (w minor dolomite and qtz) vn/bd pll bd to 1/2" -numerous small (less than 1/32" to 1/16") elongate pll to bd, calc-qtz-dolomite 'blebs', lending tuffaceous appearance to rock in places -sulph content, av 3% (varies 1 to 10% locally), 2% Py, 1% Po, trace sphalerite, as vfg mineralization ass w carb-qtz bd/vn and as frac fil, v minor v fg diss mineralization in cherty arg

247.5 - 270'

-from 247.5' to 248'. numerous 1/2" to 1" grey hard granular qtz-calc w minor dolomite vn/bd , w 5% vfg diss Py, vn somewhat contorted, hosted in light green soft sericitic arg -from 248 to 249.5', Py to 10% as semi massive bands to 1/4" ass w thin 1/2 to 1/4" hard grey granular qtz calc vn/bd pll fol and as frac fil, locally trace Po, and sphalerite -from 248.5 to 249.1', cherty qtz vn/bd locally the thin light green arg is v calc rich (diss to 25%) -from 249.1 to 249.5', a few 1/4" cherty qtz vn/bd -from 249.5 to 250', v tuffaceous appearing with 20% grey carb (calc and dolomite) 'frags' to 1/4" elongate pll bd, and a few v contorted vn/bd -at 251', 3" zone w grey cherty qtz-carb vn/bd to 80%, w ass 5% diss Py, 2% Po, vn contorted in places, appear to be 'frags' to 1" -from 252 to 252.5', strongly brecciated slumped w 3" grey chert clast, v strongly frac locally, Po to 3%, Py 1%, as vfg diss mineralization in all lithologies -from 253 to 253.5', strongly slumped, contorted, w numerous 1/2" chert-Py-Po frag /bd, sulph locally 5% (3% Py, 2% Po) -from 254 to 254.5', a few highly contorted 1/4" cherty arg bd, w minor ass hematite -at 254.8', locally intensely slumped brecciated -from 255.4', to 256', a few 1/4" grey cherty arg interbd -at 256.7', 1" rounded chert qtz frag(clast?) -from 258.5', 259.5', thin chert bd to 1/4" and 15%, locally the qtz carb vn/bd are v dolomitic appearing, locally Py to 5% as thin seams pll to bd asssociated w gtz carb vn, minor diss mineralization, and frac fil, locally a few sphalerite blebs -from 259.8 to 260.5', thin bd (to 1/4") white chert and black magnetite rich chert bd to 60%, w 40% hard beige cherty dolomite bd, w 1% Po - Py trace sphalerite, distinct cross cutting frac set at 90 to the ca, w qtz-sulphide frac fil

247.5 - 270'

carbonate (dolomite to calc) qtz ('bd',) w 5% diss Py, trace Po -from 263.5', to 264', thin white and black magnetite rich,(3%) chert bd to 1/2" and 40%, a few pink hematite rich cherty bd -from 264 to 266.8', very slumped, appears 'fragmental - agg', -from 266.8', to 267', frag of cherty to 1" and 60% pll fol (brecciated frag) -at 267.5', 2" zone w thin qtz - calchematite bd/vn contain trace sphalerite -from 268.5', to 269.2', bd v contorted, slumped -from 269.2 to 269.5', thin 1/4" black

-at 261.5', 2" contorted fg granular hard

magnetite bearing (3%)chert bd to 30% -from 270.3', to 270.5', black magnetite bearing chert bd, w dolomitic frac fil -unit pred contorted slumped brecciated arg., may have conglomeratic zones,

270.5 - 275'

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-lithicwacke ( to conglomerate) -rock consists of a thin bd (1/32" to 1/4" bd at 60 to 70° to the ca, pred at 60°) dark green, v chl, soft, arg matrix, w 50% thin (to 1/4") dark grey to beige hard carb (pred dolomite, some calc) bands, comprised of small fragmental/ clastic appearing blebs from 1/8 to 1/4", a few chert frag/clasts, and a few thin chert interbd -(may be a lapilli tuff to agg, as opposed to an epiclastic rock) -mod frac pred pll bd, w chl and calc frac fil -0.5% diss Py-Po, minor Py-Po frac fil, and occ frag/clasts to 1/8" -at 270.6', 1" beige dolomitic frag/ clasts w 2% fg diss Py -at 271', 1" contorted grey chert interbd -at 271.5', 1" grey chert bd w 0.5% diss Py, and a few 1/4" beige dolomite contorted interbd

270.5 - 275' -from 273 to 274', interbd of vfg hard granular appearing beige dolomite, highly contorted, brecciated by thin qtz seams, a few 1/4" to 1/2" chert interbd, contains 0.25% fg diss Po-Py, v bleached appearing -at 274.2', a few 1/8" Po-Py bands pll bd ass w 1/2" contorted hard beige and grey carb interbd, locally from 274 to 275', sulph to 3% (1.5% Po, 1.5% Py)

275 - 278.5'

-carbz (or carbonate rich) arg rock -light grey, thinly bd at 60% to the ca) soft arg, v calc rich -mod frac, pred pll sub pll bd, w qtz, calc, minor frac fil, frac appear to weakly brecciate rock in places -trace Py - Po as frac fil and ass w calc blebs -from 277 to 278.5', 10% small (to 1/8 ") round to elongate pll bd calc (w minor Po-Py ) blebs

278.5 - 293.5'

-mineralized interbd arg, w slumped, brecciated wacke to conglomeratic horizons
-rock comprised of interbd,
-light greenish grey, soft, arg, w varying degrees of carbz (or calc content), from weak to intense, often mod to strongly frac, w qtz and calc frac fil, to 50%
-chert, from grey, to jet black, jet black bd contain vfg diss magnetite to 5%, to 10% of rock

-dark green v soft chl arg, to 20% of rock -hard beige dolomitic arg, to 10% of rock -bd range in thickness from 1/16" to 1/4" to 6 to 8"

-bd v well dev at 60 to 65<sup>°</sup> to the ca, although highly contorted, slumped in places -contains several 'horizons' where slumping has resulted in conglomeratic / brecciated appearing zones, usually consisting of more brittle dolomite & cherty clasts/frag set in

278.5

- 293.5' a soft chloritic or light greenish grey

arg matrix -rock is pred mod to strongly frac, pred pll sub pll bd, although other or exhist, w calc, qtz, chl, and Py - Po frac fil, -a few secondary cross cutting qtz calc vn

-from 278.5' to 279', a few 1/4" to 1"

grey chert bd, and frag bd, w beige dolomitic and dolomitic arg frag to 1/4" and 20% of rock, a few thin 1/16" Po - Py seams pll to bd

-from 279'to 280', pred hard beige dolomite/

dolomitic arg (could be an alteration or a primary bd), strongly frac w a distinct set at  $30^{\circ}$  to the ca, w qtz, and Py-Po frac fil

-a few cross cutting secondary qtz vn to 1/2" at 30° to the ca, w Po-Py blebs to 1/4" and 1%

-at 279.5', 1/4" grey chert bd pll bd -from 280' to 282.5', milky grey chert

(20%) and black magnetite bearing chert (15%) to 35% of rock, bd to 2" av. 1/2", w 25% dolomitic arg bd, and 30% softer grey weakly chloritic arg bd, slumped, brecciated in places

-1% Py,trace Po, pred as frac fil -locally strongly frac w qtz, carbonate, sulph frac fil

-from 282.5', 283', a grwk appearing zone,

w thin interbd contain 30 to 40% small (1/32" clastic appearing carb blebs, a few chert and chloritic arg interbd, contains vfg diss Py and Py frac fil to 1% w trace Po and trace sphalerite

-from 283'to 285', pred a v soft dark green

chl arg w 30% thin (to 1") brecciated frag of hard beige dolomite, and minor ass chert -from 284.5', to 285', brecciated chert and dolomite frag to 90% of rock

278.5 - 293.5'

-sulph 2%, 1% Py, 1% Po trace sphalerite, as micro frac fil in strongly frac, brecciated dolomitic arg and chert frag -locally from 284.5 to 285', Po-Py to 5% as blebs to 1/4"

-from 285'to 286', light green, weakly

sericitic arg, w trace Py as frac fil -<u>from 286'to 286.5'</u> , conglomeratic appear-...

ing (slumped breccia zone) w lrg (to 1") frag of chert, and cherty beige dolomitic arg, to 40 to 50% of rock, set in a dark green soft chl matrix, w 2% sulph (1% Py 1% Po) as frac fil and thin seams pll to to bd

-from 286.5'to 289', pred light grey green

arg, v soft, strongly carbz (or calc rich) w a few l" contorted hard beige dolomitic arg interbd w 0.5% Po , trace Py, as frac fil

-from 289' to 293.5', thinly bd (to 1 to 2")

interbd grey chert (35%) and light green soft sericitic arg, which coarsens to a wacke in places (35%), w 20% thin dolomitic seams, often brecciated, fragmented, and 5% sulph (3% Py-1%Po-1%sphalerite) as vfg diss mineralization in wacke interbd and micro frac fil, and thin seams pll to bd

-sharp contact at 293.5',

-intensely carbz, chlz andesite
(ash tuff)
-rock pred a vfg (to aphanitic/arg)
light green, v soft, v strongly carbz
(diss calcite to 30% as pervasive alteration)
and strongly chlz and. rock(ash tuff)
well dev fol at 55° to 60° to the ca,
appears to be bd, maybe weakly sch pl1 bd
-numerous light green to white calcite
(with minor ass qtz) seams/vn to 1" and
3 to 5% of rock, pred pl1 fo1

293.5 - 340'

293.5 - 340'

-mod frac at ran or w pred calc, some chl, Py, and Po frac fil -overall sulph content, 0.5% pred Py, trace Po, Cpy, as vfg diss mineralization, mineralization ass w qtz carb vn, and frac fil w calc -from 293.5' to 312.5', intensely carbz, more grey in colour, more arg appearing, better dev bd, but grades into a less altered and. tuff -from 294 to 295', thin ( to 1/2") qtz calc vn to 20%, pll bd, -at 296.5', 1" diffuse appearing calc vn pll fol -from 297 to 298', bd is locally slightly kinked, crenulated, -from 299 to 299.5', numerous 1" diffuse appearing pred calc, minor gtz vn pll subpll fol to 20% of rock -at 300', 1" diffuse calc minor qtz vn pl1 fol -from 306.5 to 307.5', darker green, v strong ly chlz zone, w numerous (to 20%) 1 to 2" qtz calc vn pll bd, w 5% diss magnetite as cubes in vn to 1/16", and 1% diss Po-Py trace Cpy, ass w vn -at 310.5', 1/4" calc vn pll bd w 10% diss magnetite as cubes to 1/16" -at 311', 2" zone w numerous thin 1/8" calc seams pll bd, w l% diss Py -from 312.5' appears slightly coarser, more and. appearing, but still w mod dev bđ -at 317', 1/2" qtz calc vn pll bd -at 319.5', 1" gtz w minor calc vn pl1 bd w minor Py at rims -at 320.8', 1" qtz calc vn cross cuts fol at  $60^{\circ}$  to the ca, -from 321 to 321.5', a few 1/4" qtz calc vn pll fol -at 322.5' a few 1/4" light green hard carb vn pll bd, w minor diss Cpy and Py -at 325.3', 1/2" calc minor qtz vn pll bd w 5% diss magnetite and 3% diss Py -at 328', l" chloritic shear zone pll bd w 1/4" calc vn pll bd and ass 3% diss Py cubes to 1/16"

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#### HOLE JL-84-B2

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293.5 - 340' -at 329.5', 1" diffuse appearing calc minor qtz vn pll bd -from 330', becomes slightly harder, fresher, w occ bands pll bd of stronger dark green chl alteration around 1/4" to 1/2" calc minor qtz vn, usually w minor ass Py at rims -arb contact w underlying slightly coarser less altered unit

340 - 356.7'

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-chlz, carbz, and. tuff -fg, light green, mod fol (bd and weak sch at  $55^{\circ}$  to the ca) mod to strongly carbz (as a pervasive alteration w 20% diss calc, although patchy ) and weakly to mod chlz and. rock, probably a tuff, slightly coarser and less well bd than overlying unit -numerous (25 to 30%) small (less than 1/32") white blebs (calcite and fspr?) elongate pll to fol, lending tuffaceous appearance to rock -weakly to mod frac, pred pll fol, w calc minor Py, Po, chlorite, and hematite frac fil -a few thin 1/4 to 1/2" calc and minor qtz vn pred a pll fol, -sulphide content, 0.5% diss Py, pred as cubes to 1/16", minor Py frac fil, trace Ро (Py often weakly hematized) -at 343.2', 1" qtz calc vn pll fol -from 344 to 344.5', 4" irr qtz calc vn w 1% ass Py as blebs to 1/8", -from 347 to 350', more strongly chlz, w numerous (5%) thin (to 1/4") calc and minor qtz vn pll fol, w 1% ass Py as diss cubes at vn rims -at 352.5', a few 1/8" yellowish green carb? fspr? fill frac/seams sub pll fol

256.7 - 377'

-intensely carbz and, ash tuff -rock pred a dark grey to greenish grey aphanitic well foliated (bd, at  $60^{\circ}$  to to the ca), v intensely carbz (diss calc to 30% as pervasive alteration) and. appearing rock probably an ash tuff, although maybe slightly reworked and arg -mod to strongly frac, pred a pll bd, w calc, chl, minor hematite, and Py frac fil -weakly to mod chlz in places, rock is v soft, -numerous 1/16" to 1/2" dark green v strongly chlz bands pll bd -alfew thin qtz calc vn pred pll bd -suph content, 0.5% Py, as diss cubes to 1/16", frac fil, and minor mineralization ass w qtz carb seams -frac pattern lends fragmental appearance to rock in places -contains numerous thin bleached appearing dolomitic appearing zone, usually as halos around thin calc seams -maybe weakly sericitic in places -at 358', 1% diss small (less than 1/16") acicular black mineral (?) crystals -from 358.5', to 359', locally dark green, v strongly chlz -from 359.8 to 359', numerous thin 1/8 to 1/4" calc w minor qtz seams pll fol w 2% diss Pv -at 359.5', 1" qtz calc vn pll fol w trace diss Py, -at 361', 1" irr calc w minor qtz vn pll fol w 1% ass Py as frac fil -from 364.2', to 365', v strongly chlz, v soft, w numerous thin (to 1/2", and 10%) fg granular calc seams pll fol w 5% diss magnetite and 1 to 2% diss Py -from 366.5 to 366.8', dark green v strongly chlz zone w thin 1/32" calc stringers pll bd to 60% of rock, w ass 10% magnetite as semi massive bands pll bd to 1/8" and vfg diss mineralization -at 367.5', 1/2" calc vn pll fol -at 368.5', 1/2" diffuse grey calc vn pll fol -at 369.5', 1/2" gtz calc vn cross cuts fol at 80



256.7 - 377' -at 372', a few 1/2" beige slightly harder dolomitic bleached appearing bands pll bd -at 374', bd slightly contorted -from 376.5', to 377', numerous 1/2" qtz calc vn pll bd -becomes increasingly chloritic from 376 to 377', at 377', a rather arb contact w underlying more strongly chlz and less carbz

unit

377 - 406.5'

-chlz, carbz, and. ash tuff -vfg to aphanitic med to dark green v well fol (bd in weak pll sch, at  $60^{\circ}$  to the ca) andesitic rock -relatively soft, mod chlz, (strongly chlz from 386 to 406.5',) -mod ( to strongly in places ) carbz, w diss calc throughout most of the unit to 15%, often occurring as faint diffuse bands/bd to 1/2" pll fol, -numerous (to 5%) grey calcite w minor qtz vn/bands pred pll fol -mod frac pred pll fol w calcite, minor hematite, Py, and chl frac fil -thin calc fil frac often lend agg appearance to unit, bd is v distorted in places - qtz calc vn often highly contorted, often have light yellowish beige 1/8" bleached alteration halos -sulph content, 0.25% to 0.5% vfg diss Py often as cubes to 1/16" and mineralization ass w qtz calc vn, minor frac fil - a few zones of more intense chl vs carb alteration lends banded appearance to rock in places -some movement along frac, maybe some minor slumping -v mottled appearing in places, due to varying intensities of carbz -from 377 to 386', slightly lighter green, more strongly carbz (diss calc to 25%) becomes increasingly chloritic towards 386',

- 406,5'

377

-at 379.5', 2" zone w numerous thin 1/4" calc - fspr seams pll fol w ass 2% Py as diss cubes to 1/16" -at 380', 1" qtz calc vn pll fol -at 380.5', 1" gtz calc vn pl1 fol -at 381.5', 1" qtz calc vn w 1% fg diss Рγ -at 382.5', 1" gtz calc vn pll fol w 1/2" bleached beige alteration halo -from 382.5' to 384', locally v strongly frac pll fol, lending frag/agg appearance to rock -at 384', 1/2" calcite vn pll fol w a few 1/8" diss magnetite blebs -at 386', l" qtz calc vn pll fol -from 386.5', to 387', numerous 1/4" to 1/2" pred calcite minor qtz vn, highly contorted in places, pred pll sub pll bd, at 60 to 80° to the ca, w 1% fg diss Ру -at 389', 4" zone w thin 1/4" calc w minor qtz and Py seams pll fol to 20% of rock -at 391.5', locally some displacement along frac -at 393', a few 1/4" fg granular qtz calcite vn pll fol w ass 3% diss magnetite blebs to 1/8" and minor diss Py -at 393.5', 3" zone w 60% thin 1/4" pred calc minor qtz vn/seams pll fol w 2% ass diss magnetite blebs to 1/16", and 3% vfg diss Ρy -from 394' to 395', locally intensely chlz v soft -from 395.5' to 396', thin (to 1/2") av. 1/8") grey calc vn pll fol, often highly contorted, to 60% of rock, w 0.5% ass diss Py -from 397', to 400', locally v strongly carbz, locally frac pattern lend agg app to unit -at 403.3', 2" zone w thin calc seams to 60% of rock -at 404', 1/2" calc vn pll fol w 2% diss Py, and 4" Pyritic alteration halo, where Py is 2% in wall rock

377 - 406.5' -rather arg contact at 406.5', w underlying slightly coarser unit

406.5 - 428'

-weakly chlz, strongly carbz and. -vfg light to med green and., weakly to mod chlz, mod to strongly carbz, mod fol at av. or of 60° to the ca, as exhibited by alignment and preferred or of numerous (10 to 15%) small (less than 1/32") white frag of calc and fspr -numerous thin elongate chl blebs to 1/16" -mod sch -weakly to mod frac at ran or, (one set pll fol) w pred calc, minor hematite and Py frac fil -0.5% diss Py as cubes to 1/8", trace Cpy minor Py frac fil, and Py ass w gtz carb vn -a few thin (to 1/2") grey calc vn pred pll fol, occ w minor qtz, to 5% of rock -at 408' 1/2" contorted gtz calc vn w a few 1/16" Cpy blebs -at 409', a few 1/4" gtz calc vn pred pll fol -at 416.5', 1" grey calc vn pll fol -from 417', sch becomes gradientally stronger -at 418', 1" strongly chlz band pll fol w 1% Py as cubes to 1/8" -at 418.8', 1" diffuse grey calc vn pll fol -at 422', a few 1/2" gtz calc vn pll fol w diss Py cubes to 1/8" and 1% -at 423.5', 1" grey calc vn pll fol -from 424' to 425', locally v strongly sch -from 427.5' to 428', a few 1/2" to 1" qtz calc vn cross cuts fol at 70 to 80° to the ca, w minor diss Py -rock becomes gradientally finer from 425 to 428', distinct contact w underlying unit at 428',

- 443'

428

-agg and. (or slumped brecciated and. tuffs) -rock is thinly bd/banded (av. 1/4") bd v well dev at  $65^{\circ}$  to the ca, -composed of a dark green , v soft, strongly chlz ground mass w 40% (av.) thin (av. 1/4" to 1 to 2") lighter grey green strongly carbz elongate pll to bd altered frag (pre curser is and. ) and thin interbd (larger frag) -carbz of frag is pred calc, maybe minor dolomite in places where appears bleached and harder) -also contains thin v granular appearing calc interbd and agg shaped frag to 20% of rock, often w minor ass qtz -some slumping, movement along frac, indicating frag maybe brecciated interbd (but looks v agg) -mod frac at ran or w pred calc and chl frac fil, some movement/displacement along a few fractures -a few thin qtz calc vn pred pll fol to 1/2" although often highly contorted -sulphide content, 0.5% Py, trace Cpy, as diss mineralization ass pred w calc frag and lighter carbz andesitic agg frags, some minor frac fil, and a few thin seams pll to bd -from 428 to 431', only weakly agg, pred a thin bd dark green chlz andesite tuff, w a few zones where calc frag to 20% -at 429.5', 2" agg zone w light grey elongate pll fol v granular appearing calc rich 'frag' to 80% , w 2% ass fg diss Py -from 430 to 430.5', agg , w 30% thin (to 1/4") grey elongate pll to fol calc 'frag' w 1% ass cubic Py blebs to 1/16" -from 430.5' to 431', light green strongly carbz andesite tuff, occurs locally slumped -from 431' to 434', becomes more agg appearing w 30% dark green soft chl matrix 30% grey calc rich seams pll to bd and calc frag, and 30% lighter green to beige carbz frag and thin interbds, locally rock is v thinly bd, (1/4"), locally several offsets of up to 1/2" along frac

- 443'

428

-at 432', 1/2" qtz calc vn pl1 fol -at 433', a few 1" beige carbz frag contain 10% diss magnetite crystals to 1/16" -from 434', becomes v agg, w lighter green carbz and. frag to 30% and grey granular appearing calc frag to 20%, often w minor ass gtz -at  $\overline{434.5}$ ', frac at 10° to the ca, offset bd/frag by up to 1/2", locally v contorted slumped appearing -from 434 to 436', several (to 15%) brecciate carb vn (pred calc, w minor dolomite and qtz) appear as frag to 1/2" -at 437.2', 1/2" calc dolomite vn pl1 bd at 65 to the ca, -at 439.3', 1/8" Py seam pl1 to bd -at 440', 1" qtz calc vn pll bd, locally w a few 1/4" diss Py blebs -at 442', a few 1/2" qtz calc vn pll fol -at 443', 1" qtz calc vn pll fol, locally offset by up to 1/2" by frac

443

- 494.5'

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-andesite

-pred a med green, fg (w a few aphanitic and a few med grained appearing phases) altered crystalline and. -pred mod (to strongly in places) chlz w varying intensities of carbonate (calc) alteration (from v weak to v strong) -weakly sch at 50 to 55° to the ca -mod to strongly frac at ran or (1 set pl1 sch), w pred chl, calc, and minor hematite frac fil

-a few thin diffuse appearing grey calc vn, a few thin qtz vn, at ran or -contains in places 5% very small (less than 1/32") white to pale pink short slips of unknown mineral, pll fol, lends tuff app to rock in places

-0.5% Py ass primarily w carb vn, thin chl seams, and as frac fil, w minor diss mineral-ization

- 494.5'

443

-numerous thin (to 1/2") chl bands pred pll fol, often w minor ass hematite, calc, and Py, lending mottled appearance to rock

-frac appear to weakly brecciate rock in places

-from 443 to 449', lighter grey, locally intensely carbz, w diffuse calc seams and diss calc to 35% of rock, gradiently becomes less carbz and increasingly chl towards 449', locally sch is stronger in places as weakly kinked and crenulated locally contains 5% small short white to pale pink slips of unknown mineral, lending tuffaceous appearance to rock

-at 443.5', 1/2" calc seam weakly cross cuts fol at 80° to the ca, w 1% diss Py -at 443.8', locally sch is kinked, crenulated -at 444.5', sch is locally kinked, crenulated -at 445.8', 1" qtz calc vn pll fol -from 449' to 461.5', becomes slightly coarser, fg, appears crystalline, is only weakly carbz (minor diss calc, and only weakly sch), at  $55^{\circ}$  to the ca -from 449 to 451', numerous 1/4" diffuse appearing grey calc w minor qtz vn -from 451 to 452', numerous thin hematite chl fil frac at ran or -at 454.3', 1/2" calc - chl - hematite fil frac at  $35^{\circ}$  to the ca, locally v mottled appearing w numerous irr chl blebs and infilled frac -at 455.8', 1" calc 'bleb' -at 456.8' 2" qtz calc chl vn at  $80^{\circ}$  to the ca, locally foliation v weak -from 460 to 461.5' appears weakly brecciated by numerous thin chl (w minor hematite and calc) filled frac at ran or -from 461.5' to 464', becomes slightly coarser, appears med g (remnant crystalline texture), contains a few 1/4" yellowish green epidote altered fspr phenocrysts

- 494.5'

443

-at 462', 2" diffuse grey calc w minor hematite and chl band at 55 to the ca -from 464 to 467', becomes fg -from 467 to 471', becomes vfg to aphanitic slightly softer, strongly carbz (diss calc to 20%) -from 468 to 469', 1/2" qtz calc vn at  $20^{\circ}$ to the ca, -at 471', adfew 1/2" irr calc seams w minor diss Py at ran or -from 471 to 476.5', becomes slightly coarser, fg, v mottled appearing, more strongly frac w dark green chl and some calc frac fil pred pll to weak fol at 45 to 50° to the ca, appears weakly brecciated by frac in places, remains strongly carbz -at 475.2', 1" calc vn pll fol -from 476.5', to 483.5', becomes darker green, more strongly chlz, only weakly carbz, softer, w numerous small 1/32" short slips of pink to white unknown mineral, weak fol, at  $50^{\circ}$  to the ca, locally more basaltic appearing -at 477.3', 1/2" pink calc vn at 45<sup>o</sup> to the ca, -from 478 to 479', 1/4" calc fil frac at 0° to the ca -at 480.3',1/2" calc vn at 45° to the ca -at 481', 1/2" pink calc vn at 45° to the ca -from 483.5', to 494.5', becomes slightly coarser, fg, w 10 to 15% small white slips of unknown mineral lending tuffaceous appearance to rock, but w faint remnant crystalline texture, weakly sch at 55 to 60 to the ca, rock fines towards 494.5', and becomes increasingly carbz towards 494.5', where is grey and intensely carbz (w diss calc to 30%) -at 485', 1" gtz calc hematite vn pll fol -at 485.2', 1" calc vn, locally abundant hematite frac fil -at 489', 1/2" calc vn pll fol -at 493', 1/2" contorted gtz calc vn -arb contact w underlying unit

494.5 - 500.5'

-intensely carbonatized andesite (tuff?) -v similar to overlying unit, but intensely carbz -vfg, light greyish green, mod sch (at 60 to the ca,) and rock -v strongly carbz, w diss calc to 30% as a pervasive alteration -weakly to mod frac, pred pll fol, w calc and minor hematite frac fil -weakly chlz, weakly serz in places, relatively soft -contains (to 5%) thin (to 1/4") calc (w occ minor qtz) seams pred pll fol, and occ thin elongate frag appearing calc blebs to 1/4" that may be tuffaceous frag or brecciated calc seams -contains in places small (to 1/8") sub spherical qtz blebs and calc blebs, perhaps amygdules, or perhaps tuffaceous frag -0.5% Py, pred as fg diss mineralization and mineralization ass w carb seams -at 494.5', 1" light greenish grey calc vn -at 495.5', and 496', 1/2" calc vn pll fol at  $60^{\circ}$  to the ca, -from 496.5' to 497.5', small 1/8" blebs of qtz w minor calc , often spherical, or slightly elongate pll fol, to 10% of rock, look like frag but maybe stretched amygdules, locally host is weakly serz -from 497.5', to 499', small elongate pll to fol calc w minor qtz and Py blebs to 1/4" and 5%, locally lends v fragmental appearance to rock, locally 2% diss vfg black sub metallic mineral (nonmagnetic-?)

-sharp contact at 500.5'

500.5 - 508'

-intensely carbz intermediate ash tuff or epiclastic arg eq -rock pred an aphanitic / arg, well bd (bd to 1", av. less than 1/4") grey to light greyish green to yellowish green rock -bd at 60° to the ca, -intensely carbz, w calc to 30% as pervasive alteration/vfg diss mineralization -appears bleached in places, to a beige yellowish green -contains numerous thin 1/16" to 1/8" calc bands pll bd, often w minor ass magnetite -contains a few thin chlz zones -mod to strongly frac pred pll fol w calc and chl frac fil, frac pattern lends agg appearance to rock in places -l% vfg diss Py and Py ass w carb seams -from 500.5 to 502.5', thin 1/4" vfg granular appearing calc w minor qtz bands/bd pll bd to 25% of rock, w 5% ass diss vfg magnetite and 1% ass Py, host is alternating bands/ bd, bd of beige carb and green chl arg, locally v strongly frac, v frag appearing -from 505.5' to 506.5' a few elongate 1/4" qtz blebs -from 507.5 to 508', dark green, v chlz zone w 5% Py as semi massive 1/8 to 1/4"

bands pll bd and diss cubes to 1/16" -sharp contact at 508',

-carbz and.

508 - 521'

-vfg to fine g light greyish green mod sch (at 60° to the ca), soft strongly carbz (diss calc to 20%) and. rock, appears to have a faint remnant fg crystalline texture but also contains numeorus (10%) small (less than 1/32") white blebs of calc / fspr ? that may be tuffaceous frag, no distinct bd

-weakly frac at ran or w calc, minor chl, and Py and hematite frac fil, some offset along a few frac

508

521

- 555'

- 521'

a few thin 1/4" calc vn pred pll fol,
occ w minor qtz
-weakly to mod chlz
-becomes gradientally f towards 521/,
-0.5% Py as mineralization ass w calc
filled frac, minor vfg diss cubes
-arb gradientally contact w underlying
unit

-carbz and. (ash tuff ?) -rock pred a vfg to aphanitic light green to greyish green well foliated (appears bd, at 60° to the ca,) and. rock, w varying intensities of alteration -pred intensely carbz, w vfg diss calc and diffuse calc bands pll bd to 30% of rock -mod chlz, v soft, a few darker green intensely chlz zones

-mod frac pred pll fol, although other or present, w chl and calc frac fil, frac pattern in places lends frag appearance to rock

-numerous thin qtz calc seams to 1/4" pred pll fol

-a few yellowish green bleached appearing bands pll fol to 1/4"

-a few 1/4" chl bands pll bd,

-v mottled appearing in places -weak ser alteration in places, w thin ser rich seams pll fol

-0.5% Py as mineralization ass w strongly chl zones, carb seams, and carb fil frac v minor fg diss mineralization

-at 521.5', 3" zone w numerous 1/4 to 1/2" hard beige dolomitic appearing bands pll fol, locally v strongly frac, appears brecciated by thin chl calc seams, w ass 2% fg diss Py, and 2% fg diss nonmagnetic black mineral

-from 530 to 530.5', a few 1/2" calc seams pll fol w strong chl alteration halos containing Py blebs to 1/4",

- 555'

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521

-at 531.5', 1/2" qtz calc vn pll fol w 5% magnetite as blebs to 1/8", and 1% vfg diss Py, locally host appears weakly brecciated by numerous thin chl fil frac -at 532', 1/2" chl band pll fol w thin 1/8" calc and Py seams -at 532.4', 2" zone w grey calc vn to 1/2" pll fol w ass 5% Py as blebs to 1/4" abundant fg diss nonmagnetic black submetallic appearing mineral (specular hematite ?) -from 536.4', to 536.8', thin 1/2" qtz calc vn pll fol to 75% of rock, w 10% ass magnetite as blebs to 1/4", and 2% ass Py -from 541.5' to 542.5', vfg pink siliceous granular aplitic dyke(or vn) at 55° to the ca, (pll fol ) w 5% diss small chl blebs minor diss calc, and trace fg diss Py -at 543', 6" zone w numerous harder light greyish green bleached appearing bands to l" pll bd -at 543.8', a few 1/4" gtz calc vn pll fol w trace diss Cpy -at 545', 1" brecciated calc vn -from 545', becomes pred aphanitic , v arg appearing -at 546', 1" chlz band pll fol w numerous thin calc seams and a few thin Py stringers -from 545', contains a few thin beige bleached appearing, perhaps weakly dolomitic seams pll bd, w some evidence of slumping -at 546.5', locally appears slumped -at 547', 1" gtz calc vn pll fol -at 548.3', 1" fg granular calc vn pll fol -at 549', 1/2" chl band pll fol w numerous thin calc stringers -at 549.5', 1/2" contorted calc vn sub pll fol at 50° -at 550', 1" zone pll fol w numerous thin 1/4" gtz and calc seams, and elongate blebs pll to fol, frag appearing -at 551.5', 1/4" contorted cherty grey sil band/vn pll fol -at 552.5', 1/4" qtz bleb, locally a few 1/8" carb - Py seams pll fol

521 - 555' -at 553', 2" pink v fg v sil aplitic dyke /vn pll fol at 60 to the ca, -from 553.5' to 554', numerous 1/4" to 1/2" bands and agg appearing frag of dark grey to white carb (or intensely carbz and.), locally strongly brecciated, frac, w 1% Py (maybe a thin agg horizon)

555 -561'

-agg and,

-rock thinly bd at  $65^{\circ}$  to the ca, comprised of an aphanitic dark green soft intensely chlz ground mass w 30 to 40% thin (to 1/2" av. 1/8" to 1/4") elongate (pll bd) dark grey to green , harder, intensely carbz altered and. / or carb frag and interbds, appeared to agg frag but maybe brecciated interbds -also contains granular appearing fg calc (w minor qtz ) frag appearing blebs elongate pll fol to 10 to 15% -contains 2% Py as amorphous blebs to 1/8" ass w agg frag - a few thin secondary qtz calc vn pred pll bd -at 558', 1/2" siderite halo around frac -from 560.5 to 561', bleached light beige to greenish beige v dolomitic appearing interbd

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OF -MOODY DISTRICT OF COCHRANE LARDER LAKE MINING DIVISION SCALE: 1-INCH=40 CHAINS LEGEND PATENTED CROWN LAND LEASES LOCATED LICENSE OF OCCUPATION C MRD MINING RIGHTS ONLY 40 SURFACE RIGHTS ONLY S.R.0 ROADS IMPROVED ROADS KING'S HIGHWAYS RAIL WAYS POWER LINES AN N MARSH OR MUSKES MINES CANCELLED ()

NOTES

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-260			,						• •		8-11					
-270-				P.J		264-267 - MOVERATE ALTERED DIORITE 2%, DISS BLEAS OF PURME UPTO 3MM 289 - 1' MASS CE QTZ V,	- MOTTLEO LT GREENISH GREY TO - MOTTLEO LT GREENISH GREY TO - ME EQUIGRANULAR TO PORPHYRI IN FG-APH GROWND MRES	Greenish with	TITE G + QTZ CRATALS		-701-	B			lw	Tr
				/		$-271' \circ 2^3 + 1' 1' 1'$	- THE ROCK IS COMPLED OF 10-2 0-10%, THERE (CHLORITE?) - INPLACE THEROCK IS SULLIFED GREENISM WHITE - OKCOSSION AL GTZ VIENS OF TO 1	5% QTZ, CO- D & SAUSERITIZ .0 FT MAY BE	75% PLAG, 271 2EO 7FO A	2%	275.		0	- 276		
-20-						1977 Lo' messio (ST) V.	TO THE SULFICATION . - SULFICE MINERALIZATION - OF	270 2% DISS	F6 Pyrite	-	-285	100	8		90	T <sub>r</sub>
-290-						287-305 - RELATIVUT UNALIERE SAUCER, MIZED ALAG BJ 1824AGUSE SJULLEN LA - OCCASSIONAL QTZ VIEN @ 45-55° TO CA	D T NO KNOY. J SMM THUCK			TR.	-287 -293 -295	8 8 55		- 287		
300						-298' - 0.5' SECTION PLACE KOM TO LT GREEN CHLORI-	retry altered re(mixti like sergintine!)	•				100				 

	HOLE NO. CASING CO COORDINA NCLINATI	تک DLLAR ATES	8E Elen 281	> - € /.: €/L	33	GROUND ELEV.; N N. E. BEARING: 330	PROJECT: JIMS LAKE NE ONTARIO DATE STARTED: 15 JAN 85 DATE FINISHED: 22 JAN 85 TOTAL DEPTH: 819'	PAGE NO: 2 REF. TO CLAIM BCALE: 1	01 CORNI 10 2, LJ	- 10 Er:	512			
SECTION	ALTER	RATIO	ATZ V. Z	FRACTURING		COMMENTS:	ESCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	SUL PHIDES	DRILLING	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL % REC'Y SAMP INT	ESTI- MATED
-30	>  <b> </b>	<b>V</b> 1				-302' -1' GTZ V @ 45° TO CA 2	640-377,3 QFP (CONT)		72	-305-	B		-305:	
-310		3 1				313.5-317 PORPHYRTTIC 2 25%	317 - KREGURGE INTRUSINE() CONT		1%.	-315-	8		3920 -310 -313.5	TR.
-32	×		//			- 321.0' 2" QTZ CARBONATE VIEN Z QTZ CARB EPIDOTE ACTERATION ENVELOPE.	17.3-330 MAFIC VOICANK REEN FG EQUIGANULAR SULY SCHISTOG 10-60% MAFICS (CHURITEP) 40-50% P CHISTOBETY AT 650 TO C.A. KEASSIONAL RACTURES WITH MINOR BY C TONMAGNETIC.	e maric volc- hag. ortings.		-325 -	S			
-330			(IIX JIII)			330-343 ARGILLITE 2 3 NUMERAOUS OT 2 OARDONATE ORC VEINUP TO 2INCHES	30-364.5 INTERBODED ARGILLITE + LAPILL - ARI TO RY MASSIVE GREY & VEG BU - WEAK BEDNING FRATURES - NUMBROUS IRREGULAR OT 2 CARGO UPTO 2 INCH MAKING UP TO 1010 OVERALL ALLI TUFF - MOTTLED UT GREY, GREY, UP TO WITH IC LAPILLI AND XL RAS UP TO	UTUFF (SEO?) OTITE NATE VEINS OF ROCK 50% STREESH 2 4 MM LANS	٦r	-335-	28	8		
			7	٥		- OCA 245.0 RUSTY EXACTURE 24EMITE STAIN - BE 346.0 INT SERICITIZED ZONE	IN GREA PRENILITIC MATRIX. BUIST CASSIONAL SERICITIZED ZONE AND FRACTUR DOING AND SCHISTOSTIY @ 70° TO C.A.	HOTZ FRAG OTOS	8 1 L	-3441			345.5 346.5	70
						-354.0 -141NCH QTZ V@ 45'T	INCLE AELATED TO A FRACTURE IN RO IN PART UPTO 3 mm.			.355	100	-	-31.5	IC.

HO CA CO INC	LE NO. SING C ORDIN CLINAT	N J XOLLJ IATES	L 8 14 EL 1-	5- .ev.: 8E.,	63 /4 (	) ) )	GROUND ELEV.; ) N. E. BEARING:	PROJECT: JTM DATE STARTED: DATE FINISHED: TOTAL DEPTH:	LAKE NE ONTARIO JAN 15 85 JAN 22 85 BIG'	PAGE NO: S REF. TO CLAIM BCALE: 1" P LOGGED BY:	01 0071N 103 2 1	FIQ ER: EG	RIN	2 1 1 1 1 1 1 1 1 2 1		·····	
CTION	ALTO	RAT		CTURING	NERAL	EOLOGY	COMMENTS:			AVE CORE REC'Y / HOLE	T PHIDES	TERVAL	CORE	CORE SIZE	AMPLE TERVAL	REC'Y	ESTI- MATED
-36-	2022			FRA	Σ	ື່		DESCRIPTIVE	GEOLOGY		Sut	ΒŽ	ÅÖ R		Ω.Ύ	%§	
2 2 2 2							-361,5 3" CE GTZ CARB	330-364,5 1	KONT)	FLATILLI TUFF		315	100				
-370-				1				3645-374.0 - GREEN LAM 40% MAPICS - TR DISS TS PL	CHLORIT FORD MARIE YTU INATED, SONISTOSE APAR (CHLORITE) d OCCASSIONAL P. TRAC	TURE CORTINES		. 700.	1005				
	A.	,					*****	- SCHISTOSTY ( 374,0-392.0 LT GREY TO G	DACITE TUPF	) TO BLILY LAMING		376					
-360-							ž	ocassional F -Gccassional -minor fold	C LITHIC PRAG UP TO IMM 2-3 mm CARB VEINLE O CARB WEIN UPTO 50	t @ 45° ⊂ A nm			B				
-340-		12	2	<b>,</b>	ĥ		389.5-392.0 972 CARB	V 1.5" E MODER	RATE TO INTENSE SIUCI	FICATION OF	1-5%	356 P.		-CS	389,5		To
					)		2	392.0-409.0 LT GREENISH G	PACITE LAPILLI TUPP	TUFF		397.	100		392.0		'(
-400							A 398.00 401.0 MASSIVE DACITE	30% - STRETCH FRE 20% BROKEN QT 50% FG-APH IT GR SCHISTOSITY (	SIC LITHIC FRAGMENTS UP TO 2 CM 2 XL FRAGMENTS UP TO BY MATRIX. ) TO <sup>o</sup> TO GA.	Smm			100				
		1 0/		X		2 P	- 406.0 5" CE QT2 V NOS 406.0 - 409.0 - MODERATE TO STR BY ADJA SENT	ULFIDE DNG SUKIFICATION QFP	E ASSOCIATED FRACTURIN	og maybe caused		-406.			-406 -409		Tr
							DACIFE TOUFF	MOTTED LT BREY SAUSERITZED ALLS IMTRUSIVE CROSS G	PORPHYRITIC E STOR FGQT IN YOL AN MATRIX VITING CONTACTS	2,30% m-cg			100				
F 420								4160 - AN	DESITE VOLC PUD ANDESTIC	LAALLITUFFS&TUFS		-417-					

H0 CA C0 1N	DLE NO. JL 85-83 ISING COLLAR ELEV.; DORDINATES: LG8E/40N NOCTON SRLC	PROJECT JIMS LAKE NEONTARIO PAGE NO: 4 OF         GROUND ELEV.;       DATE BTARTED: 15 JAN 85         N.       E.         DATE FINISHED: 22 JAN 85       SCALE: 1°=10'         BEARING:       TOTAL DEPTH::	10 R: EGEI	2			
SECTION	ALTELATIN A NOILEAN A NOILEAN A NOILEAN A NINERAL MINERAL GEOLOGY	COMMENTS: AVE CORE REC'Y / HOLE SU DESCRIPTIVE GEOLOGY	DRILLING	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL % REC'Y SAMP INT	ESTI- MATED
-420		416-435 MASS ANDESITE VOLC 4160-588 ANDESITE VOLC AND ANDESITIC LAALLI TURS FRA-FG 252 FRAFICS - ABWANT CARB VENING THROUGH DUT & CARB VENING BNDESITE - MASSIVE GAREN FG-AATEQUIGRANULAR SITUS SHISTOSE - 25% MARKE SHUBTE	427-	80		416	tr
-430-		LAPILLI TUFFE - MOTTLED GREA GREAN SPOTS IN DARKER GREEM MATRIX -257. LITHIC FRAGES UP TO I CM. IN MORE MAFIC APH MATRIX - FRAGE STRETCH AND MATRIX - FRAGE STRETCH AND MATRIX	5	ŝ		435	Tr
- 		SCHISTOSE WITH CHLORITE ARE LIKES SCHISTOSTY @ 60°TOC.A. <u>NOTE</u> CHLORITE AND SERICITE ARE LIKES OCASSIONAL CARB. VEIN AND MODERATE CARBONITIZATION PERORNATION AND NOT ALTERATION	4374	8		844	Tr
-450-		- 30-402 STRETCH INT VOLG FRAG UPTO 2000 IN A' GREEN ANDESTIC TUFF MATRIX - 2 LITHE OACITE ARAGS OVER 5 CM - ONE OF THESE FRAG CONTAIN AN OTZ VENLET	417-	180	<u>ମ</u> ୍ଚର ଅଷ୍ଠ	113	
- - - - - - - - - - - - - - - - - - -		- NO CARBONATE ALTENATION OR VENS IN THIS SECTION, 457-4703 DACHTIC- ANDESITIC VOLC BRECKIA 25-304, LITHIC BRECKIA FRAGMENTS	457-		-4	457	Tr
-470-		ALONG SHISTUSITY (HTI OF C6 OTZ V Q 45 TO C.A 470' DIPTEST MINUSCIXL = AM	467 -	100		164	īr
	a 23	471-472 1% DISS FG Ry 470.3-482, MASSIVE. TO SULY SCHISTOCKE ANDESITE Z 30% MARILS PATCHY MODERATE TO STRUNG SIWCIFICATION THROUGHOUT	-477-	100		176	īr Tr

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HOI CAI COO INC	LE NOJL 85-83 BING COLLAR ELEV.; ORDINATES: LGXE /407 :LINATION:	PROJECT: JIMS LOKE NE ONTARIU PAGE NO: 5 GROUND ELEV.: DATE STARTED: 15 JAN 85 REF. TO CLAIM CO N. NORTHGRIDE. DATE FINISHED: 22 JAN 85 SCALE: 1410 BEARING: TOTAL DEPTH: 819' LOGGED BY: P.	OF 10	()	ر		
SECTION	SKIJCITE STAISTE STAISTE STAISTE STAISTE STAISTE STAISTE MINE RAL GEOLOGY	COMMENTS:	SULPHIDES DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	ESTI- MATED Same INT Same Same
		- 402 2" CG QTZ Q 50" 416-588 ANDESITE VOLC AND ANDESITE TUFFS HAPPILL TUFF TO CA (CONTINUED) 482-497 MASSIVE TO SLITY SCHISTOSE ANDESITE, 25% MARK (CHILDRITE) - OCASSION LITTIC LAPILL BANDS -3 OTZ CARBONATE VEIN 1-3 INKHOS	-487	E E			
-530-	<i>∖∦</i>	497-479.5 NUMBROUS GIZGARBONATE VENS UP TO 2" IN ANOESTE 1999.5-507 - ANDRETE TUFF & CALITE BLEB UPTO 1MM ELT CARBONATE ALTERATION	-497-	120		-497	Tr
-510-	00 X 20 23	507,0-512' SCHISTOSE ANDESITE Z UP TO 25% CARBONATE IN BLEB UP TO 5-8mm IN BIA. FOSSIBLE AMYOULE FILLING. 509 IRREGULOR CARBONATE VEINS UP TO 21" W 5% Py 512-518,5 SCHISTOSE ANDESITE TUFF Z OCCASSION CALCITE BLEB SLILLY CARBONATIZE THROUGHOUT.	-507	100	89	-507	Tr
-520-	X/1 /	518.5-52 0 - SCHISTOSE ANDESITE WITH NUMEROUS IRREGULAR CARBONATE VEINS E UPTO 25-50% FO QTZ MAKING UP 157, OF ROCK 522 - 535, - SCHISTOSE ANDESITE TUFF OCCASSIONAL THIN 4MM CARDONATE VEINS T - MODERBRELY CARBONATIZED THROUGHOUT	-517-	ĸ		518, <del>5</del> -	ĩr
		532 - THIN DALITIC? TUFF BAND (OR SILICIFICATION) @ 65° TO C.A. PRALLEL TO SCHISTOSITY. 535 - 5435 ANDESMIC LITHIC LAPILLY TOFF STRETCHED ANDESMIE LAPILLY OF TO 28 CM MAKING UP TO 30% OF RA LAPILLY ARE CARBONITIZED BUT MATRIX IS NOT	-537	100			

HOU CASI COO INCL	ENO. JL SE ING COLLAR EL PROINATES: LE LINATION:	5 <b>-83</b> Lev.: 58E/4	01-4	GROUND ELEV.; N. NORTH GRID E. BEARING: DATE FINISHED: 22 JWN 85 TOTAL DEPTH: BEARING: DATE FINISHED: 2191	PAGE NO: G REF, TO CLAIN BCALE: I <sup>V</sup> LOGGED BY:	ог Юрин 10' Р. Ц	ER: ESEI	2			
TION	ALTERATION	TURING	DLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	A IDES	LLING	CORE	ORE IZE MPLE	ERVAL REC'Y	ESTI- MATED
-540-	SERV	FRAC	Э С Е	DESCRIPTIVE GEOLOGY		SULF	DRI	жесо Кесо	S N C	INT %	
				416-588 ANDESITE VOLC, TUPES & LA (CONTINUED) 543.0-559.3 SOUSTOSE ANDESITE TUPE - OCCASSION CARBONATE VEIN - TUPE MORE ARBONATE VEIN - TUPE MORE ARBONATIZED THROUGH OUT	Pilli Tuffs		517-	160	*		
-500				1 557-559 - MORE SILLEOUS, DACITE TUFF BAND	,		<del>5</del> 57 ·	100			
550-				557-565. ANDESITIC LATHIC LAPILL TUFFS 30% ANDESITIC FRAG UP TO IOMM NO CARBONATE ALTERATION 563 AND 564 2 SEQUITE BANDS 555-558 BOHINTOSE ANDRETTE TUFF SUNY MORE DALITIC			-557-	100	-56 -56	g H	Ĩr
- - - - - - - -		ی ری ا	A A	SSLES588,00 MASSIVE TO SOLY SCHROEF ANDERITE VOL LT GREEN Z 25% MAFIC (CALAKTE) WEAK TO MODERATELY CARBANITIZED THROUGH OUT 572 1'GTZ CARB V Z DOTH VEINS COMPOSIEND OF 40% QTZ THE I'M CARBAN 2 25% CALAFE AND ZELL TEORER OBSENTIMENDEL (EPIDOT	r <b>x</b> 7)	17.	570	100	) 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	9.5 2.5 5.5	Tr Tr Tr
-560-		-	1	ETR-19. My = 582.5 07 0T2 CARV 80% CG QT2 20% CALL.			511	100	-গ্র ক	2	Tr Tr
- - - - - - - - - - - - - - - -				SUS-595.3 DACITE TUFF 558-604 INTERBEDDED ANDESITE TUFF AND GRADAMINAL UPER ANDESITE TUFF SAME AS ABOVE CONTINCT MODERATLY CARBONITIZED E NUMBROUS SMALL GITZ CARB DAKITE TUFF - LT GREY Z PESK LITHIC LAPAL METRIC, 24. MARC	OQUIE TUFF		587-				

HC CA CO IN	DEE NO. SING C DORDIN CLINAT	- JL XOLLAN NATES: TION:	R ELEY	5-( V.: 3E)	33	ground elev.; J. N. NORTH GRIDE. BEARING;	PROJECT: JMS LAKE DATE STARTED: JAN 15 85 DATE FINISHED: JAN 22 85 TOTAL DEPTH: B19'	PAGE NO: 7 REF. TO CLAIN BCALE: 14 LOGGED BY:	OI I CORNI I CU P. LI	F 10 Er: Egenn				
TION	ALTE	RATI	<u>RB V 2</u>	URING	LOGY	COMMENTS:		AVE CORE REC'Y / HOLE	# HIDES	LING RVAL	VERED DRE 75	MPLE		
SEC	50.0-	11/11/11	SE	FRACI	UEO EEO		DESCRIPTIVE GEOLOGY		SULP	IN TE	N N N N N N N N N N N N N N N N N N N	SAI	70 K SAMI	
						600-604 DACTETUTE	584-604 INTERSECTIONANDESITE TUFE +	DACITE TUPF	<b></b>					
-G10-							604 - 622 MG PIORITE - MOTTHED LIGREY AND ORBEN, MASSIVE - COMPOSED OF BS 76 MAFICS, 55% P - FG TO PORPHYRITIC TOWARDS CONTRACT	mg - Fg Equisra DIAG , IS	unk	· ·67				
-60-						-612 - 8mm' Thick QTZ ARE @ 46 to C.A	- Occassion al cut by atz carb ven	DUP TO 5 MM THK	K	-617				
i i i i i i i i i i i i i i i i i i i						GO 1' SESTION OF DAGTE TO	<u>622-625 DACITE TUFF</u> <u>625-642 F6 DIORME</u> SAMEAS 604-622 MASS FG 35%	mafks		-927	80-			
								•		-637				
-G10-					-	639.4-641.3 2.6 QTZ CARE	(OULOMITE)			- 612	_	639.3- 611.3- 6412-	Tr	
				1 000			- COMPOSED OF FELSIC LITHIC LAPILL CREY IN COLOUR AVERAGING I-ISMM ALONG STRETCHED LENGTH, OCCASSION	E LITHIC LANCE TO TS LT GREY TO OK IN LENGTH IN LENGTH IN LENGTH	1-28	ଖ7			TC	CuP
							TUTE MATRIX 65% LAPILL 35% TUFF -1-27. BPy FRAGUPTU 5mm Long 642-657	FROM	1%	-657		652- -657	Tr	Cr As

HOL CASI COO INCL	HOUSE NO. JL 85-BE CASING COLLAR ELEV.; COORDINATES:LG8E/401 INCLINATION:					3	GROUND ELEV.; N. NORTH GRID BEARING:	PROJECT: JIMS DATE STARTED: 1 DATE FINISHED: 1 TOTAL DEPTH:	LAKE 5 JAN 12 JAN BIS'	NE ONTARIO 85 85	PAGE NO: 8 REF. TO CLAIN SCALE: ("= LOGGED BY::		IO IR:	2				
CTION		RAT	JARV NOI	TURING	NERAL	OLOGY	COMMENTS:				AVE CORE REC'Y / HOLE	X PHIDES	TERVAL	CORE OVERED	CORE	AMPLE	REC'Y. MP. INT.	ESTI-
SEC	650, MT	SINCIPL		FRAC	W	В СЕ	,	DESCRIPTIVE	GEOLOG			Sut	δž	REC REC		S N	%¥	
							-	642-6708 MINE (CONT) - SCHISTOSE M	RALIZED	INT HITHIC LAPIL	11 TUFF 5° to C.A.		-67-	(30)				
କତ			×	<b>-</b>	13000		- 669.2' 3" BAND WITH SMM BAN MAKING UP 10% OF RX CONDUCTOR.	6708-673 GRAG 673-6872 F-11	NOTE MI THREE F PITTIC ARE	HEN SMALL LAABL	OVER HAST BAND OF TO 5mm	Gi%		100		-661 - 673 - 673 -		Tr Tr
-680-			11			1	-577-3" IRREGULAR STZ CARB VEIN	SAME GOH-G - CUT BY SEUERA LARGER VEIN N	22 L MINDOR C MINDOR C	TZCARG VEIN U	P TO E-10 mm		671-					
			1				-682 7" MREGUAR QTZ CANB VEIN	60% QTR 25% CALL 1	5% DOLOM ITE?				-687-	Ю				
- 610 -								- DARK TO LT GO - MARK TO LT GO - MASSNE TO SLI - AMEARS TO MAN	REY AND ( Ly schietde Le a pale	SREENICH GREY SE, AAH EQUIGRA GREENTO IT GRBY	NULAR. IALITERATION			100	- 2			
	/						- 700' DIP TIEST MINISCUS <= 60° TRUE ANGLEZ = 52	- Occasional various angle	otz care eto cif	s vein ul to s	TA MMS		597-	lw)				
- - -7/10- -		- 3					) 708-714,8 - PALE APPBE GREEF Possibly SERICIFE Actually VISI CL	- ALTERATION THOUGHT LITTLE BE E	ACTE				-707-	601				
		-		11			714.8-717 - IJGREY AUTER PACE	IE WEAK OARBONN 717-736 INTO	TIZATION.	DACITIC LAMILITUR GRAPH MC	F AND ARGILLITE		717-					



HOL CAS COO INCL	E NO.	JL DLLAI ATES: ION:	85 HELE LGS	>-   V,: Æ∕	33	3 }~2	GROUND ELEV.; N. NORTH GRID E. BEARING: PROJECT: JIM'S LAKE NE ONTARIC DATE STARTED: 15 JAN 85 DATE FINISHED: 22 JAN 85 TOTAL DEPTH: 819'	D PAGE NO: {C REF. TO CLAI SCALE: 1 <sup>11</sup> = LOGGED BY:	) o M CORN 10 1 LE	f )C Eri: GEI	> N				
CTION	ALTER	ATI WILLESI	ARRV. 2	TURING	NERAL	OLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	¥ HIDES	DNIT	ORE	JRE ZE	WPLE RVAL EC'V	ESTI- MATEC	
-780 -	57.047	SILICIT	C b	FRAC	ž	B	DESCRIPTIVE GEOLOGY		SULP	ORIL	RECO	ប៉ត	SAI INTE	SAME	
							754.5-819 ANDESITIC TUFFS	S (CANT)			100	Å			
-790-			9.0 00.0	5-1 1		ļ	- 787.5 G"SECTION Z OTZ OARB BLEB HIMM			70.					
			1		R		-794 - 1" GTZ CARB VISIN WITH 21% RE DISS PY Z SERICITIZED MARGINS		TR-P		00		-793	TR	
-800			11				800-802 - IRREGUAR ATZ Y. MAKING UP 20% OF THE RX			797					
-									•	807-	8	68			
-810-								•			100				
819			$\leq$				-817.5 QTZ CARB V 1/2" THIKK (1) 45° TO GA. 2 85% CALLINE			817-	100				
							COMPLETED LOGSING &	JANSE JU SUAT							

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	+58882	+58980	+ 58877	+ 58 968	+58903	+58865		
1	+ 58902	+58956101-	70	+58954	+58933	+-5891		
	+ 588 10	30N-1-58973	+ 58895	-+ 58970	30N <b>+5894</b> 1	+ 58906	. 1	1
	+58893	+ 58942	+ 58896	+589719	+58927	+ 58892		{
	+ 58810	+ 58952	+ 58881	+ 38960	+58898	+ 68868		
	+ 58852	+58935	+ 59865	+ 28883	+58858	10465+58830		
	+ 58850	+58934	+ 58154	+-58910	+58792	+58817	$\langle \gamma \rangle$	
	-+ 588 24		+-59801		+58843-	+-58781	Y	
	+ 58816	+ 58898	+ 58786	-+ 58834	+58905	+ 58801		
	+58772	68844	+ 58767.	+ 5882	+58192	+ 58741		
·	+ 58768	+58789	-+-59759	+ 5880		+ 58173		
Ň	+ 58 7 54	+58803	+58721	+ 68807	+ 58738	+ 58715		
	+58748	20N+58774	+58711	+ 587 13	20N+58697	+58680	+-58573	3010+58451
Λ.	+ 58135	+ 58693	+ 58669	+ 58738	+ 58664	+-58650	+ 58541	+ 58464
/	+ 58707	+58701	+-58643	+58699	+ 58639	+58629	58489	+ 58403
\	÷ 58672	+ 58667	.+-58585 15	+ 38662	4-58601	+58676	+ 58440	+ 58382
,	+ 586 29	+58692	10 + 58574	+ 58642	+ 58566 F	509716 <sup>+5854b</sup>	+58401	+ 58318
	+ 58560	+ 58643	+58539	+58002	+ 58831	758604	+-58296	+ 58286
	+ 58545	+ 58590	58536	+58560	58491	<b>1</b> 58460	1-58186	01
	+ 58523	+58533	58494	+ 58557	10000	684410	+5812	458243
	+ 58460	+ 8610	+ 58+53	+58511	+ 58456	-08332	+58201	58441
$\sim$	- 58425	+ 58186	488410	00000		- 58260	+0822	1 Lastal
- )	+ 58346	10N+58426	58575	+ 58507	10N+58121	+58167	+ 52420	TON: STORE
1.	- +58300 \	and the second second	+58542	+ 58469	+ 58414	58261	580 65	1/
1000	+ 582.57	+ 58322	+58252		+ 555327	68340	+5450	A 61226
	·+ 58272	+51282	+ 59220	+5834	+-58356	58491	1/ +/51119-	+ + 1056 - 56
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1238	Riverside Drive	, Timmin	s, Onta	ario, P4	IR IA	4		
Summary of Work Performan Total Work Days Cr. claimed	nce and Distribution of Credi	ts Work	Mining Clai	im W	Vork	Mining	Claim	Work
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for Performance of the followin work. (Check one only)	L 610870	23 L	6108	378 4	10	L 61	0885	40
Manual Work	610871	40	6108	379 4	10	61	0886	40
Shaft Sinking Drifting or	610872	40	6108	380 4	10	61	0917	40
other Lateral Work.	610873	40	6108	381 4	10	61	0918	40
Power driven or mechanical equip.	610874	40	6108	382 4	10	61	0919	40
Power Stripping	610875	40	6108	383 4	10	61	0920	40
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Land Survey	610977		6100		100210	n al na ca	L SURVEY	
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All the work was performed on					RESE	ARCH OF	FIGE	
Required Information eg: t	ype of equipment, Names, A $\overline{1}$	daresses, etc.		selow)		<del>R120</del>	85	
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Dri]	led By; Bradley	Bros Ltd						:
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				COR	IDED N	HAR 1	9955	
1 18 910111121 1121	3141516		Date of	Report		Recorded Ho	Ider or Agent (	Signature)
Certification Verifying Rep	ort of Work	······	I rep	21/05	l			
I hereby certify that I have a	a personal and intimate knowleds	ge of the facts set	forth in the l	Report of Work	k annexed	d hereto, havi	ng performed 1	the work
Name and Postal Address of Pe	erson Certifying			<u>.</u>		· · · · · · · · · · · · · · · · · · ·		
Duncan F. Mc	Ivor, 1238 River	side Dr.	Timmin	s, Ontar	rio,	PAR 1A	4	
			Feb	27/85	ŀ	Dune	m Malur	R
L Table of Information/Attac	chments Required by the Mir	ning Recorder			í			·····
Type of Work	Specific information p	ber type	Other infor	mation (Comm	non to 2 i	or more type	s) Attack	nments
Manual Work								
Shaft Sinking, Drifting or other Lateral Work	Nil		Names and manual we with dates	d addresses of r ork/operated e s and hours of e	men who equipmen employm	performed t, together lent.	Work Ske are require the location	tch: these ed to show on and
Compressed air, other power driven or mechanical equip.	Type of equipment						extent of relation to nearest cli	work in o the aim post.
Power Stripping	Type of equipment and amoun Note: Proof of actual cost mus within 30 days of recording.	it expended. It be submitted	Names an together v	d addresses of o with dates wher	owner or n drilling,	operator /stripping		
Diamond or other core drilling	Signed core log showing; foota core, number and angles of hol	ge, diameter of les.	donę.				Work Ske above) in	tch (as duplicate
Land Survey	Name and address of Ontario I	and surveyer.	<u> </u>	Ni	íl		· · · · · · · · · · · · · · · · · · ·	Nii
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Name and Postal Address of Rec	orded Holde	יי דייי					T-793	ice No.	
1238	River	side Driv	e, Tim	mins,	Ontario,	P4R J	LA4		
ummary of Work Performar	nce and Dis	tribution of Crea	dits						
Total Work Days Cr. claimed 561	N Prefix	/ining Claim Number	Work Days Cr.	Mi Prefix	ning Claim Number	Work Days Cr.	Mining Cl Prefix N	umber	Wor Days
or Performance of the following	I L	610921	16	L	565158	60			
Manual Work		610926	40		565159	60	<u>                                      </u>		
Shaft Sinking Drifting or	感激	610927	40		565160	60			
Compressed Air, other		610928	40		565161	5			-
mechanical equip.		565153	60						
Power Stripping		565154	60						
Diamond or other Core drilling		565156	60						
Land Survey		565157	60				理論		
All the work was performed on	Mining Clair	n(s): <u>L609</u>	713,	61047	6. 6101	172			
Required Information eg: t	ype of equ	ipment, Names, /	Addresses, e	etc. (See	Table Below)				
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Certification Verifying Rep	ort of Worl	K Intimate knowled	dae of the fer	cts set fort	n in the Report o	f Work anne	exed hereto, having	performed	the wo
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or withesed same ouring an									
Name and Postal Address of Pe Duncan F. McI	vor, l	ing 238 Rivers	side Dr	cive,	Timmins,	Ontar	io, P4R l	A4	
Name and Postal Address of Pe Duncan F. McI	vor, l	ing 238 Rivers	side Dr	cive,	Timmins, Date Certified Feb 27/	Ontar 85	io, P4R 1	A4 gnature)	wR
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Compressed Air, other	610441	38	610378	38	6104	447 40
Power driven or mechanical equip.	610442	38	610379	40	6104	448 40
Power Stripping	610443	38	610380	40	6104	449 13
Diamond or other Core drilling	610444	38	610416	38		
Land Survey	610445	40	610417	38		
All the work was performed or	Mining Claim(s): L 6104	69				
equired Information eg:	type of equipment, Names, Ac	Jdresses, etc.	(See Table Below)			
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or witnessed same during an	a personal and intimate knowledge id/or after its completion and the r	annexed report	is true.	TYOIK BINEX	eu nereto, naving	performed the Work
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Table of Information/Atta	chments Required by the Mini	ing Recorder				
Type of Work	Specific Information pe	ir type	Other information (	Common to 2	? or more types)	Attachments
Manual Work	••••					
Shaft Sinking, Drifting or other Lateral Work	Nii		Names and address manual work/opera with dates and hou	es of men wh ated equipme rs of employe	o performed ent, together ment,	Work Sketch: these are required to show
Compressed air, other power driven or mechanical equip.	Type of equipment					extent of work in relation to the
	Type of equipment and amount	expended				neerest trainfi post.
Power Stripping	Note: Proof of actual cost must within 30 days of recording.	be submitted	Names and address together with dates	es of owner a when drillin	or operator g/stripping	
Power Stripping Diamond or other core drilling	Note: Proof of actual cost must within 30 days of recording. Signed core log showing; footage core, number and angles of holes	a, diameter of	Names and address together with dates done.	es of owner o when drillin	or operator g/stripping	Work Sketch (as above) in duplicate

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