

DIAMOND DRILLING



42A16SW0079 14 MOODY

010

TOWNSHIP: Moody

REPORT No.: 14

WORK PERFORMED BY: Utah Mines Ltd.

<u>CLAIM No.</u>	<u>HOLE No.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
L 609702	JL-82-01	1503.0	Feb/82	(1)
L 609707	JL-82-02	1503.0	Mar/82	(1)
L 609712	JL-82-03	1122.0	Mar/82	(1)
L 609707	JL-82-04	558.0	Apr/82	(1)
		<u>4686</u>		

NOTES: (1) #30-83

HOLE NO. JL 82-01

PROJECT: JIM'S LAKE A.365

PAGE NO: 1 OF 21

CASING COLLAR ELEV.: GROUND ELEV.:

DATE STARTED: FEBRUARY 27/82

REF. TO CLAIM CORNER: C.P. 1: 610398

COORDINATES: 84° west of 24 S on 188E on 248° bearing N. E.

DATE FINISHED: MARCH 11/82

SCALE: 1" = 10' (137° & 67° bearing)

INCLINATION: -55° BEARING: 0°

TOTAL DEPTH: 1503'

LOGGED BY: J.W. NEWSOME

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE RECY/HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% RECY. SAMP. INT.	ESTI-MATED
	CHLORITIC	SERPENTINIZED	CARBONATIZED	HYDROTHERMAL												
							<p>NOTE: MOST VEINS LOGGED AS QUARTZ IN ULTRAMAFICS ARE ACTUALLY DESCRPTIVE GEOLOGY MAGNESITE ± ANTIORITE</p>									
							<p>0'-299' OVERBURDEN Good basal till above bedrock > 25' thick</p>				299'					
300'							<p>299'-420' OLIVINE BASALT Rel. dense dk. green f.g. (<1mm), slig. to mod. schistose v. mafic vol. rock - composed dom. of olivine-pyroxene-feldspar with varying degrees of chlorite, serpentina & calcite alteration commonly displayed on schistosity planes. Sch'ty varies 35-70% to core axis (gen. 50%) - v. shg. magnetic. Fractures gen. hairline to 'patches' 2-2", dom. // to sub // to sch'ty & X-cutting to lesser extent - vary 1"-6" apart (gen. 2-4") & infilled dom. with calc - serp. & to lesser extent epid. & v. min. gts. Minor py (tr. - 1%) throughout section as v. f.g. amorph. to 1/2" blebs & wisps // to sch'ty, (gen. 2mm in diameter) & also assoc. with calc. fract. infills. Increase in chl. calc. alt'n down sect. & calc. fract. infills.</p>			Tr. to 1%	302'	100	BQ			
310'							<p>310'-311' - ang. serp. wisps sub // to sch'ty 314'-315' - min. epid. calc. stringers. // sch'ty</p>				312'	100				
320'							<p>319.5' - gtz. vn. sub // sch'ty (<2mm wide) ± min. py along fract. 320' - min. py 2's (<1%) 321' - epid. alt'n for 6" 322' - fract. fill. & calc (2mm) // sch'ty ± <1mm py 2's (<1% py)</p>				321'	100				
330'							<p>325'-327' calc. vns ± 3" apart // sch'ty - hairline to <2mm. 330' - 2mm barren gtz. vn // sch'ty 330'-332' min. X-cutting calc. vns. 334' - 4mm gtz. calc. va. ± <1% py X-cutting sch'ty 334'-339' hairline fract. // to sub // sch'ty ± calc - serp. - epid. 339.5'-340' - 6" fract. zone ± calc. & hem. on fract. - hairline X-cutting sch'ty 345'-347' - calc. - epid. fract. infills - 6"-1' apart - hairline to 1/2" patches X-cutting // sch'ty 347'-350' - more serp. on fract. // sch'ty.</p>				331'	100		324' 100 2% py 29001 328' 100 1% py 29002 331'		
340'											341'	100				

HOLE NO. JL-82-01

PROJECT: JIMS LAKE (A-365)

PAGE NO: 3 OF 21

CASING COLLAR ELEV.: GROUND ELEV.:

DATE STARTED: FEBRUARY 27/82

REF. TO CLAIM CORNER: #1 part 610398 (187' @ 67')

COORDINATES: 84' from 245 on L-88E E.

DATE FINISHED: MARCH 11/82

SCALE: 1" = 10'

INCLINATION: -55° BEARING: 0°

TOTAL DEPTH: 1503'

LOGGED BY: J. W. NEWSOME

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE ~100%	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED	
	MODERATE	MODERATE	MODERATE	MODERATE													
410'	M	M	M	M	W		410'-420' - fairly dense f. g. (<1mm) & mod. strong chl. & calc. alt'n. - numerous (3"-6" apart) calc. vns & fract. infills // to sub// to sch'ty // to min. X-cutting - wispy up to 1" wide & vy. min. gtz & epid. & tr. to 2% py + po + vy. min. tr. cpy.		1%	Tr.			BQ				
420'							420'-420.8' - 6" calc-epid-min. gtz. fract. infill sub// to X-cutting sch'ty & ~20% py + po + 1-2% cpy - mod. mag.		2-3%	Tr.	100		418.5 419.0 420.0	100	2-3% py + po + Tr. cpy	29009	
							420'-454' BASALTIC ANDESITE (FLOW OR TUFF?)										
							- gradual transition from modic-olivine-rich Olivine basalt through Andrositic basalt @ 423' finally to basaltic androsite @ 429' - more schistose & f. g. (<1mm) with strong chl. & calc. alt'n & less scsp. - Sch'ty varies from 30-40° to core axis - increase in calc. vning. & fract. sub// to sch'ty, includes feldspar phenos										
							423'-429' - 3" calc. scsp. - py. vns sub// to sch'ty (~3% py + min. po)						423.0 424.0	100	20% py + po + 1-2% cpy	29010	
							429'-429' - abun. calc. chl. - min. scsp. & gtz. fract. infills with 3-5% v. f. g. dissem py & tr. cpy. - fract. hairline - 3" sub// sch'ty & 2"-6" apart.						429.0	100	3% py + po	29011	
							429' - after 429' intra. of individ. (1-2mm) to sub-sequent clusters of feldspar phenos ≥ 1" in diameter & up to 20% by volume, most prem. after 435' & 477'						430.0	100	3% py + Tr. cpy	29012	
							433.5'-435' abun. calc. vns 1/8"-1/2" wide. // to sub// to sch'ty & 2% dissem vy. f. g. py.						433.5 435.0	100	1% py + Tr. cpy	29013	
							435'-446' - chl zil & v. f. g. & large pheno. clusters of f. spar & min. react. rims - calc. alt'n & fract. infills // to sub// sch'ty - gas. hairline ~ 1/2" wide & 2"-6" apart. - v. f. g. dissem. po + py (1%) + tr. cpy throughout sect. - greater assoc. & calc. vns.						440.0	100	2% py + po	29014	
							446' - 1st appearance of graph. splinters & infills along hairline fract. sub// to X-cutting sch'ty						449.5	100	1% py + Tr. cpy	29015	
							446' - irreg. spaced - increase down sect. - py + po + tr. cpy & graph in fract. e. 446.5' + min. calc. vns to 449' & tr. 1% po + py.						445.0 446.5	100	1% po + py + Tr. cpy	29016	
							451' - abun. calc. fract. infills sub// sch'ty for 6" & min. graph + 2-3% po + py.						449.0	100	1% po + py + Tr. cpy	29017	
							454'-492' AMYGDALOIDAL ANDESITE OR CRYSTAL TUFF										
							- highly chl zil & strong calc. alt'n - v. f. g. (<1mm) - mod. to strong sch'ty gen. // to core axis & v. f. g. in fill & calc. v. minor gtz - stratified & along along sch'ty - gen. 2mm-5mm in length - most prem. from 477' & 487' - also pres. crys't tuft with f. spar phenos all'd to calc. + ~10% gtz. frags (<2mm spherical) - most prob. in X'stal tuft - also includes individ. to clusters of f. spar phenos - not as abun. as between 435' & 477' - rel. fract. hairline to ~ 1/2" & 1"-6" apart - infilled & calc. graph & min. gtz & 1-2% py + po + tr. cpy & poss. min. sph.										
							484'-456.5' - abun. sub// to X-cutting calc. vns. up to 1" wide & v. f. g. po + py (2-3%) + Tr. cpy & poss. min. sph & min. graph.						451.5 452.0	100	2-3% po + py	29018	
							459'-461.5' - abun. calc. vns & min. gtz. & graph - sub// to X-cutting sch'ty - hairline ≥ 1" & 2-3% po + py + tr. cpy.						456.5	100		29019	
							463'-468' - gtz. calc. graph vns ~ 6"-8" apart up to 1" wide & // to sub// to sch'ty & 1-2% po + py + Tr. cpy.						459.0	100		29019	
													467.5 468.0	100		29020	

HOLE NO. **JL 82-01**

PROJECT: **JIM'S LAKE (A-365)**

PAGE NO: **4** OF **21**

CASING-COLLAR ELEV.: **GROUND ELEV.:**

DATE STARTED: **FEBRUARY 27/82**

REF. TO CLAIM CORNER: **#1 post 610392 (137' @ 67')**

COORDINATES: **84' from 24S on L-RBE**
on 248° bearing N.

DATE FINISHED: **MARCH 11/82**

SCALE: **1" = 10'**

INCLINATION: **-55°** BEARING: **0°**

TOTAL DEPTH: **1503'**

LOGGED BY: **J. W. NEWSOME**

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE RECY / HOLE ~100%	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% RECY SAMP INT.	ESTI-MATED
	CHLORITE	SERPENTINE	CARBONATE	HYDROXYL												
470'	STRONG	NIL	STRONG	NIL			<p>471'-472' = 1/2" calc-graph vn. sub // sch'ty ± 4-5% py + po</p> <p>473.5' = 2" calc-graph vn. ± 4-5% po + py</p> <p>476'-478' = X-cutting to sub // calc. vn. (1-2") + 2'-4" apart = @ 477.5'; 2" graph. vn. sub // sch'ty ± 4-5% v.f.g. dissem. py + po</p> <p>• abun. spar clusters phenos from 471'-475'</p> <p>• abun. spherical to elongated calc. & gtz. 'eyes' or crystals @ 477'-487'</p> <p>479'-486' = random sub // to X-cutting calc. & graph. vn. lets along hairline → 2" frags ± 2'-6" apart ± 1-2% py + po.</p> <p>486'-492' = numerous frags. infilled ± calc. + graph + 2-3% py + po + tr. epy, ~ 1/4" apart from 489'-492' = dom. hairline ± graph + py. sub // sch'ty.</p> <p><u>492'-499' ANDESITE LAPILLI TUFF or FLOW BRECCIA</u></p> <p>• cataclastic = deformed stretched frags. < 1 mm → 1" // sch'ty = gradational boundaries with highly fract'd and sections = highly chl'z'd. & calc. alt'n. = calc. & graph. interst't between frags. ± 10-20% sulphides = dom. py + po ± 1-2% epy & tr. sphal. as stringers & blobs between frags. = abun. slicken slide = minor X-cutting calc. vns.</p> <p><u>499'-515.5' ANDESITE TUFF</u></p> <p>• v.f.g. (< 1mm) = abun. chl: calc. alt'n ± sch'ty fairly consist. @ 50°-60° to core axis</p> <p>• frags. 2'-6" apart, // to sub // to minor X-cutting infilled ± calc. & graph. + 2-5% py + po. + tr. epy. = minor calc. phenos. in places.</p> <p><u>515.5'-529.5' GRAPHITE WITH SULPHIDES.</u></p> <p>• 90% graph. interlayered ± 10% grey/green. v.f.g. ash tuff or argillite = highly contorted & convoluted. = abun. stringers & blobs of v.f.g. py + po (15-20% of graph. volume) + minor epy (1-2%) & tr. sphal. = slig. mag. due to po. & possibly v. tr. pant.</p> <p>• numerous thin (< 3mm) late stage calc. vns. // to sub // to X-cutting sch'ty.</p> <p>• sch'ty gen. ~ 50° to core axis (varies 30°-70°)</p>				471'			29021		
													472'	100	4% py + po	29022
													473.5'			
													474'			
													476'			
													478'	100	4% py + po	29023
													479'			
													479'			
													486'	100	10-20% po + py + 1-2% epy	29024
													488'	100		29025
													489'	100		29026
													492'	100		29027
													496'	100		29028
													499'	100		29029
													505.5'			
													510'	100	2-5% po + py + tr. epy	29030
													515.5'			
													518'	100	15-20% po + py + 1-2% epy + tr. sph.	29031
													520'	100		29032
													526'	100		29033

HOLE NO.: JL-82-01

PROJECT: JIM'S LAKE (A.365)

PAGE NO: 5 OF 21

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: FEBRUARY 27/82

REF. TO CLAIM CORNER: #2 post 610398 (137° & 67°)

COORDINATES: R4 @ 248° from Z4 S
on L-888 N. E.

DATE FINISHED: MARCH 11/82

SCALE: 1" = 10'

INCLINATION: -55°

BEARING: 0°

TOTAL DEPTH: 1503'

LOGGED BY: J.W. NEWSOME

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE RECY / HOLE ~100%	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% RECY. SAMP. INT.	ESTI-MATED
	COLORITE	SULPHIDE	CHLORITE	OPAL												
530'	WOODEN	WOODEN	WOODEN	WOODEN			<p><u>529.5'-540' INTERBEDDED GRAPHITE & ARGILLITIC TUFF</u></p> <p>• Dark grey-green argillite or ash tuff interbedded with thin layers (< 1/2") graph. ~ 70% to core axis • mod. sch'ose & stringers & blobs of py + po + tr. cpy from 1/2"-6" apart • 10-12% sulphides, 40% graph & 50% argillite, & highly fract. & slickenslide along sch'ity + x-cutting = fract. hairline → < 1/2" wide & min. serp. + calc.</p>		10% to 12%	538'	100	BQ	529.5'	100	10-12% PY + PO + tr. cpy.	29042
540'							<p><u>540'-559' OLIVINE TO PICRITE BASALT (Grading to Ultramafic)</u> • possibly INTRUSIVE.</p> <p>• gradational contact with above mentioned unit with decrease in fract. & sch'ity • v.f.g (< 1mm) with mod. to strong chl's • dom. comp. of olivine & pyroxene & lesser amounts of spar • fine cumulate-like texture • dense & vy. weak sch'ity & weak to non-magnetic • minor x-cutting to sub // fract. infilled & calc. • 6"-2" apart & tr. py & cpy.</p> <p>• 544.5 to 546.5 • aphanitic & highly chl'd. & fract. zone & minor gta. calc. inlets & calc. - chl. - serp. slickenslide & py-po. stringers & blobs (2%) & tr. cpy.</p>		Tr.	548'	100		544.5'	100	2% PY + PO + tr. cpy.	29043
550'							<p><u>559'-730' ULTRAMAFIC - PERIDOTITE (?)</u></p> <p>• dark green - purplish black f.s.g. (< 1mm) • no primary structures evident, & gradational with above unit. • dom. comp. of calc spar - olivine - pyroxene • highly alt'd with chl. & serp. • abun. calc-serp. - minor talc fract. in fills with th. to 1% py & cpy on slickenslide surfaces. • fract. are sub // to core axis to random orientation gen. hairline, but up to 1/2" wide & gen. < 1/4" apart & abun. serp. calc. in filling. • light green mineral assoc. & fract. serp. or chl. or possibly talc. (Fuchsite doubtful) • mod. to strongly mag. • increases after 565'</p> <p>• whole core is split due to abun. fract. in fills of calc-serp. & tr. - 1% py + cpy.</p>		Tr.	573'	100		563.5'	100	Tr. - 1% PY + cpy	29044
560'									Tr. to 1%	567'	100		568.5'	100		29034
570'											100		573.5'	100		29035
													577'	100		29036
													578'	100		29037
													583'	100		29038
													587'	100		29038

HOLE NO. JL-82-01

PROJECT: JIM'S LAKE (A-365)

PAGE NO: 7 OF 21

CASING COLLAR ELEV.: 81' @ 248° from 245 GROUND ELEV.:

DATE STARTED: FEBRUARY 27/82

REF. TO CLAIM CORNER: #3 post 610398 (137' @ 67°)

COORDINATES: on L-88E N. E.

DATE FINISHED: MARCH 11/82

SCALE: 1" = 10'

INCLINATION: -55° BEARING: 0°

TOTAL DEPTH: 1503'

LOGGED BY: J.W. NEWSOME

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE ~100%	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
	CHLORITIC	SERPENTINIC	CARBONATIC	GLAUCOPHANOUS												
650	MODERATE	MODERATE	WEAK	MODERATE		Py	<p>559-730' ULTRAMAFIC - PERIDOTITE (?) - cont -</p> <p>dark green - blackish f.g. (<1mm) dense & massive comp. dom. of olivine - pyroxene - lesser Calc. S' spar. = mod. to strong chl. & serp. all'n & wk. to mod. calc. all'n = irreg. fract. pervasive & infills of dom. serp. + gtz. + min. calc. & chl. = tr-2% py smeared along fract. = amorph. to prismatic crystals. = fract. vary from gen. 2"-6" apart & sub // to X-cut core axis. = gen. hairline to 1" wide. = 2nd generation of gtz vns = 'ladder' vns = gen. close to 90° to initial gtz-serp. vns system = hairline - 2mm wide & 2"-1" apart. = mod - strong magnetic. = gtz. vns compose ~10% of rock. = vy. wk. to non-existent sch'ty. = slickenside along fract. & serp.</p> <p>• @ 705' = fract. @ 55° to core axis // to vy poorly developed sch'ty. & X-cutting hairline fract. & 'ladder' gtz. vns ~90° to core axis.</p>		Tr. to 1%	656'	100	BQ	682.2	100	Tr. to 1% py-cpy	27056
660	STRONG	STRONG	MODERATE			Py					665.8	100	669.8	100	27057	
670											675.7	100	679.8	100	27058	
680											685.5	100	679.4	100	27059	
690											695.4	100	685.4	100	27060	
700											697.2	100	690'	100	27061	
											701.1	100	703'	100	27062	
											703.2	100	706'	100	27063	
											705.2	100		100	27064	

HOLE NO. JL-82-01

PROJECT: JIM'S LAKE (A.365)

PAGE NO: 8 OF 21

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: FEBRUARY 27/82

REF. TO CLAIM CORNER: "I post 610398 (137' e 67°)

COORDINATES: on L-88E N. E.

DATE FINISHED: MARCH 11/82

SCALE: 1" = 10'

INCLINATION: -55°

BEARING: 0°

TOTAL DEPTH: 1503'

LOGGED BY: J.W. Newsome

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE RECY / HOLE ~100%	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% RECY SAMP INT.	ESTI-MATED
	CHLORITIC	SERPENTINIC	CARBONATE	OXIDATION												
710'	M	M	W	N			559'-730' <u>ULTRAMAFIC - PERIDOTITE (?)</u> - cont. - • for description, see page 7		Tr to 1%		100	DR	711'	100		29064
720'	T	T	M	W			710'-715' • increase in serp. gtz. vns. • gen. sub // sch'ty = 1% py sch'ty of wk @ ~60° to core axis			715'			716.2			29065
	S	S	M	W			721'-723' • as above				100		718.5	100	12 py	29065
	S	S	M	W			725'-728' • as above.						721.6			29066
	S	S	M	W			730'-775' <u>FINE CUMULATE ULTRAMAFIC - PERIDOTITE/DUNITE</u> • dk green f.g cumulate text. (<1-2 mm) comp. dom. of olivine - minor pyrox. & min f'spar. • mod. to strong chl. & serp. alt'n. • moderately magnetic. • random irreg. fract. in filled & serp. + gtz. & min. calc. • tr. - 1% py. • fract. hairline - 1" wide. • gen. < 5mm. • some vns sub // to core axis. • fract. gen. 2"-6" apart. • gtz. serp. vns. gen. comp. 10% of whole rock. • min. podiform mag. crystals @ 736' & progressively more serp'n after 755' = weak to no sch'ty			724.9			724.6	100	12 py	29066
730'	S	S	M	W							100		729.8			29067
	S	S	M	W						734.7			732.4	100	12 py	29067
740'	S	S	M	W			740'-742' } 744.5'-745.5' } gtz. serp. vns = w 1% py x-cutting to sub // to core axis (w 15% of rock) 748'-749.5' }						736.5			29068
	S	S	M	W									737.5	100	12 py	29069
	S	S	M	W									737.7	100		29069
	S	S	M	W			752.5'-760' } 762'-764' } increase in gtz. serp. vns. up to 20% of rock • hairline vns to 2" wide • gen. sub // to core axis to x-cutting & randomly spaced (2"-6" apart)			744.6			742'		Tr. py	29070
750'	S	S	M	W									749.7	100	Tr. py	29071
	S	S	M	W						754.9			751.5	100	Tr. py	29071
760'	S	S	M	W									758.4		Tr. py	29072
	S	S	M	W									760.9	100	Tr. py	29072
	S	S	M	W						764.8			764'		Tr. py	29073
	S	S	M	W									766.9	100	Tr. py	29073
	S	S	M	W									768'			29073

HOLE NO. JL-82-01

PROJECT: JIM'S LAKE (A-365)

PAGE NO: 11 OF 21

CASING COLLAR ELEV.: GROUND ELEV.:

DATE STARTED: FEBRUARY 27/82

REF. TO CLAIM CORNER: #1 part 610375

COORDINATES: 84' @ 248' from 245
on L-88E N. E.

DATE FINISHED: MARCH 11/82

SCALE: 1" = 10'

(137' @ 67°)

INCLINATION: -55° BEARING: 0°

TOTAL DEPTH: 1503'

LOGGED BY: J.W. NEWSOME

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE ~100%	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI- MATED
	CHLORITE	SERPENTINE	ACTINOLITE	EPIDOTE												
890							881-1064' - <u>Coarse Grained Cumulate Ultramafic - DUNITE</u> - for description see page 10.			Tr.	892.2	100	BQ			
							894-895' - 1" gtz. v. z. serp. - chl. + talc + tr. py. - sub // to core axis (c.a.)					100		894' 895'	100	Tr. py. 29099
							902-903.5' - 1 1/2" gtz. serp. - talc v. z. v. min. tr. py. - 10° to c.a.							902'		
900							905-907.5' - gtz. serp. (chrysotil) vns. 5mm - 2" wide & 6" apart X-cutting to sub // to c.a.				902'			902' 903.5'	100	29100
							913-914' - 2" gtz. serp. - talc v. ~ 30° to c.a.					100		905' 907.5'	100	29101
							921.8-926' - } hi. fract. section gtz. serp. - talc vns up to 2" wide 926-930.5' - } // to sub // to c.a. = tr. py. & opy.				911.8'			913' 914'	100	29102
							936.5-938' - min. thin (< 5mm) gtz. serp. - talc vns 30-50° to c.a. & 2-3" apart.					100				
							939-941' - min. gtz. serp. vns < 1/4" wide @ 50-70° to c.a. & 6" apart.				921.7'			921.8'		
920							942-945' - rel. hi. fract. sect. - gtz. serp. vns up to 1" wide // to sub // to c.a.							926'	100	Tr. py. 29103
							946-951' - rel. hi. fract. = thin gtz. serp. vns sub // to c.a.					100			100	" 29104
930											931.5'			921.5'		
												100		934.5' 938' 939'	100	Tr. py. 29105
														941' 942'	100	29106
											941.4'				100	29107
												100		945' 946.5'		29108

HOLE NO. JL-82-01

PROJECT: JIM'S LAKE (A.365)

PAGE NO: 12 OF 21

CASING COLLAR ELEV.: 84' @ 248' from 245 GROUND ELEV.:

DATE STARTED: FEBRUARY 27/82

REF. TO CLAIM CORNER: 1/2 post 610398 (137' @ 67°)

COORDINATES: on L-88E N. E.

DATE FINISHED: MARCH 11/82

SCALE: 1"=10'

INCLINATION: -55° BEARING: 0°

TOTAL DEPTH: 1503'

LOGGED BY: J. W. NEWSOME

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE ~100%	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTI-MATED
	CHLORITE	SERPENTINE	MAGNETITE	CLAY												
950'	M O D E R A T E	S T R O N G	N I L	N I L T O W E A K			<p>881-1064' COARSE GRAINED CUMULATE ULTRAMAFIC: DUNITE for description see page 10.</p> <p>956'-957' - 2" gtz. serp. - talc vn. @ ~10° to core axis</p>		Nil to Tr.	951.2	100	8Q	951'		N.I to Tr.	29108
960'							<p>967.5'-972' - rel. fract'd = gtz-serp vns up to 1" @ 70-10° to core axis</p>			961'	100		967.5'	100		29109
970'							<p>972'-975' - min. thin (<2mm) gtz vns ~6" apart @ 70° to core axis</p>			970.9'	100		972'	100		29110
							<p>976.5'-981' - 3" bull' gtz. vn + other min. gtz; serp vns @ 30-50°/core axis.</p>			976.5'	100		976.5'	100		29111
980'							<p>983.5'-985' - rel. fract'd = random gtz; serp. (~15% of rock by vol.) - after 985' - rock is v. dense & massive & uniform coarse olivine/serp cumulate = abun. magnetite (10-15%) & strongly serpentized. = minor gtz-serp. vns.</p>			980.7'	100		981'	100		29112
990'										989.6'	100		983.5'	100		29113
1000'							<p>995'-995.8' - 3" gtz-serp. vn. @ ~60° to core axis.</p>			990.6'	100		995'	100		29114
										1000.4'	100		995.8'	100		

HOLE NO JL-82-01

PROJECT: JIM'S LAKE (A-365)

PAGE NO: 15 OF 21

CASING COLLAR ELEV.: 84' @ 245' from 245 GROUND ELEV.:

DATE STARTED: FEBRUARY 27/82

REF. TO CLAIM CORNER: #1 post 610398

COORDINATES: 242.88E N. E.

DATE FINISHED: MARCH 11/82

SCALE: 1" = 10'

(137' @ 67')

INCLINATION: -55° BEARING: 0°

TOTAL DEPTH: 1503'

LOGGED BY: J.W. NEWSOME

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE %100%	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED	
	CHLORITE	SERPENTINE	CARBONATE	HAIRLINE FRACT.													
1130'	M O D E R A T E	S E R P E N T I N E	N I L	K M C				1118.5'-1238.5' FINE → COARSE CUMULATE ULTRAMAFIC: DUNITE - PERIDOTITE. • for description see page 14.			Nil to Tr.	100	8	1127.5	100	Nil to Tr. PY	29131
1140'							1141'-1142' = gtz-serp-talc vns up to 1/2" wide ~ 1-2" apart & 30-60° to c.a. 1146'-1150' = random gtz-serp-talc vns up to 1" wide ~ 3-6" apart & x-cutting c.a. • after 1150' = gen. fg. (<1mm) & massive = little cumulate text. & pervasive hairline fracts sub // c.a. = serp. ± gtz.				1138.2	100		1141' 1142'	100		29132
1150'							1162'-1163.5' = min serp-gtz vns sub // to c.a. & hairline - 1/2" wide 1166'-1166.5' = 2" gtz-serp-talc vn. @ 45° to c.a. • after 1188' = gradual decrease in degree of serp't'n with corresponding increase in amount of talc/sericite alt'n. = abun. assoc. with gtz. veining = but also pervasive in groundmass (possibly more peridotite than dunite). random fracts. infilled = gtz-serp-talc/ser. & chl. & mod. to strongly magnetic = slightly sch'ose = sch'ty @ ~50° to core axis (varies 40-70° to c.a.) = sections of more pervasive fract'ing & vning as follows:				1148'	100		1146' 1150'	100		29133
1160'											1157.0	100		1162' 1163.5' 1166' 1166.5'	100		29134
1170'											1167.7	100		1166.5'	100		29135
1180'											1177.5	100					
1190'											1187.6	100					

HOLE NO. JL-82-01

PROJECT: JIM'S LAKE (A-365)

PAGE NO: 16 OF 21

CASING COLLAR ELEV.: 84' @ 248' from 245' GROUND ELEV.:

DATE STARTED: FEBRUARY 27/82

REF. TO CLAIM CORNER: #1 post 610398 (137' @ 67°)

COORDINATES: on L-88E N. E.

DATE FINISHED: MARCH 11/82

SCALE: 1" = 10'

INCLINATION: -55° BEARING: 0°

TOTAL DEPTH: 1503'

LOGGED BY: F. U. NEWSOME

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE % 100%	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED		
	SKILL SITE	SURFACE	GROUND	INTERVAL														
1190'	MODERATE	MODERATE	NIL	SEE LOG	11/1	III	1118.5'-1238.5' • F.C. Cumulate Ultramafic: PERIDOTITE-DUNITE. • for description see pages 14 & 15.			Tr.		100	BQ	1192.5'	100	Tr. py.	29136	
							1192.5'-1194' • thin gtz-serp-talc vns < 5 mm wide ~ 50° to c.a.				1197.2'			1195.5'	100		29137	
							1195.5'-1197' • minor random gtz-serp-talc vns.							1197'	100		29138	
1200'							1199.5'-1201' • even. gtz-serp-talc vns sub // to c.a.					100		1199.5'	100		29139	
							1202'-1204' • min. gtz-serp-talc vns ~ 6" apart & sub // to c.a.							1201'	100		29140	
							1206'-1207.5' • g-s-t. vns 60°-80° to c.c. & 1"-2" apart.				1207'			1204'	100		29141	
1210'							1213-1214.5' • sub //ing thin gtz-serp-talc vns @ ~ 60° to core axis (// wh. sch'ty) & ~ 1" apart.							1206'	100		29142	
							1215'-1220' } hi. alt'd section is serp-talc-chl ± ser. alt'n assoc. is 1220'-1225' } gtz. vns as well as groundmass vns // sch'ty @ ~ 60° 1225'-1230' } to core axis is tr. py. & mag. x'tals & ~ 1-3" apart. 1232'-1236.5'							1207.5'	100		29143	
1220'							1238.5'-1306' C.G. Cumulate Ultramafic • DUNITE. • gradational contacts • from 1238 to 1278, gradual decrease in Si-pas content from peridotite/dunite rock type to dunite • after 1278, increase in serp't'n • e.g. olivine cumulates (2-5 mm) • alt'd in varying degrees to serp. + abun. access. mag. • strongly mag'e. • gen. massive in appearance with varying degrees of fract. • gen. sub // to 80° to core axis & infilled with gtz & serp + tr. py (in parts) • weak sch'ty is stretched olivine x'tals ~ 40°-60° to core axis.								1206'	100		29144
1230'							1239'-1244' } random gtz-serp. vns varying from 1mm-2" wide from 30°-80° 1244'-1249' } to core axis (X-cutting in part), from 1"-6" apart (gen. 1"-2") 1249'-1254' } is tr. py + epy.							1226.5'	100		29145	
1240'							olivine 'clusters' up to 1/2" in diameter from 1249' to 1250'							1226'	100	Tr py + epy	29146	
														1225'	100		29147	

HOLE NO. JL-82-01

PROJECT: JIM'S LAKE (A.365)

PAGE NO: 17 OF 21

CASING COLLAR ELEV.: 84' @ 248' from 245' GROUND ELEV.:

DATE STARTED: FEBRUARY 27/82

REF. TO CLAIM CORNER: #1 post 610398 (137' @ 67')

COORDINATES: ON L. 886 N. E.

DATE FINISHED: MARCH 11/82

SCALE: 1" = 10'

INCLINATION: -55° BEARING: 0°

TOTAL DEPTH: 150.3'

LOGGED BY: F.W. NEWSOME

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE ~100%	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED				
	MODERATE	SHORZ	LN	LN																
1250								1238.5' - 1306' C.B. CUMULATE ULTRAMAFIC + DUNITE for description see page 16		Tr.		100	BQ	1254'	100	Tr. PJ 29148				
1260								1266' - 1267.5' - mm. gtz. serp. vns sub // to c.a. 1269' - 1270' - 3" gtz. serp. tale m. @ 80° to c.a. 1289.5' - 1291' - two 3" gtz. serp. tale vns @ 4" apart & ~40° to c.a. 1291' - 1295' - long gtz. serp. vns sub // to c.a. & up to 1/2" wide 1299' - 1301' - // gtz. serp. stringers ~ < 1/4" apart & 45° to sub // to core axis 1301' - 1305' - as above, but spaced farther apart.					100		1266'	100	29149			
1270												100		1269'	100	29150				
1280								1306' - 1330' ULTRAMAFIC → MAFIC : PERIDOTITE → OLIVINE BASALT • gradational contacts • f.g. groundmass of dom. olivine - pyroxene - minor f'apar + accessory magnetite (~5%) & phenos of f'apar x'stals to clusters up to 5mm in diameter = mod. mag'e. • mod. to strong chl. & serp. alt'n. • no sch'ity to weak sch'ity after 1325' @ 40° to c.a. • grading from peridot → basalt with increase in chl. alt'n after 1325' • random hairline → 2mm. fracto gen. sub // to X-cutting core axis & infilled ± gtz. serp. - chl. • sheared from 1327' - 1330' @ 45° to c.a. ± abun. chl. serp. alt'n.					100		1275'					
1290												100		1285'						
												100		1295'	100	29151				
												100		1299'	100	29152				
												100		1301'	100	29153				
1300												100		1305'	100	29154				

HOLE NO. JL-82-01

CASING COLLAR ELEV.: 84' @ 298° from 285' GROUND ELEV.:
 COORDINATES: on L-88E N. E.
 INCLINATION: -55° BEARING: 0°

PROJECT: JIM'S LAKE (A-365)
 DATE STARTED: FEBRUARY 27/82
 DATE FINISHED: MARCH 11/82
 TOTAL DEPTH: 1503'

PAGE NO: 19 OF 21
 REF. TO CLAIM CORNER: 1 post 610998
 SCALE: 1" = 10' (197' @ 67°)
 LOGGED BY: F. W. NEWSOME

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE ~ 100%	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	CHLORITIC	SERICITIC	ANhydrite	pyrite												
1370	STRONG	STRONG	STRONG	STRONG			1345'-1503' • CHLORITIZED ANDESITE for description see page 18					100	80	1374	100	Tr-12 PJ + min cpy 29163
1380							1374'-1376' • 2" gtz. calc. vn. x-cutting c.a. @ ~ 70° to subll to sch'ty (~ 60°) ± tr. py + min. gtz. calc. vns (< 2mm) subll to sch'ty.					100		1374		
1390							1392'-1392.5' • 2" gtz. calc. vn. x-cutting core axis @ ~ 80°					100		1392	100	29164
1400							1400'-1405' • min. gtz. calc vns up to 2" wide x-cutting sch'ty (50-60° to c.a.) = random ± 1-2" apart ± tr. py - cpy.					100		1400	100	29165
1410							1408'-1410' • gtz. calc. vns up to 1" wide x-cutting sch'ty (~ 60°) = tr-1 1/2 py throughout section					100		1408	100	29166
							1415'-1419' • gtz. scarp. vns ± 1/4" wide // sch'ty & 2-6" apart.					100		1415		
							1422'-1425' • 6" 'bull' gtz + calc. vn. @ 1423' ± min. gtz. calc. vns on either side + tr. py.					100		1419		29167
							1425'-1430' • random gtz. calc. vns up to 2" wide gen. x-cutting sch'ty + tr. py throughout & along vn. margins.					100		1425	100	29168

HOLE NO JL-81-01

PROJECT: JIM'S LAKE (A-365)

PAGE NO: 20 OF 21

CASING COLLAR ELEV.: 84^o 248' from 245 GROUND ELEV.:

DATE STARTED: FEBRUARY 27/82

REF. TO CLAIM CORNER: #2 post 610398 (137' E 67°)

COORDINATES: on L-88E N. E.

DATE FINISHED: MARCH 11/82

SCALE: 1" = 10'

INCLINATION: -55° BEARING: 0°

TOTAL DEPTH: 1503'

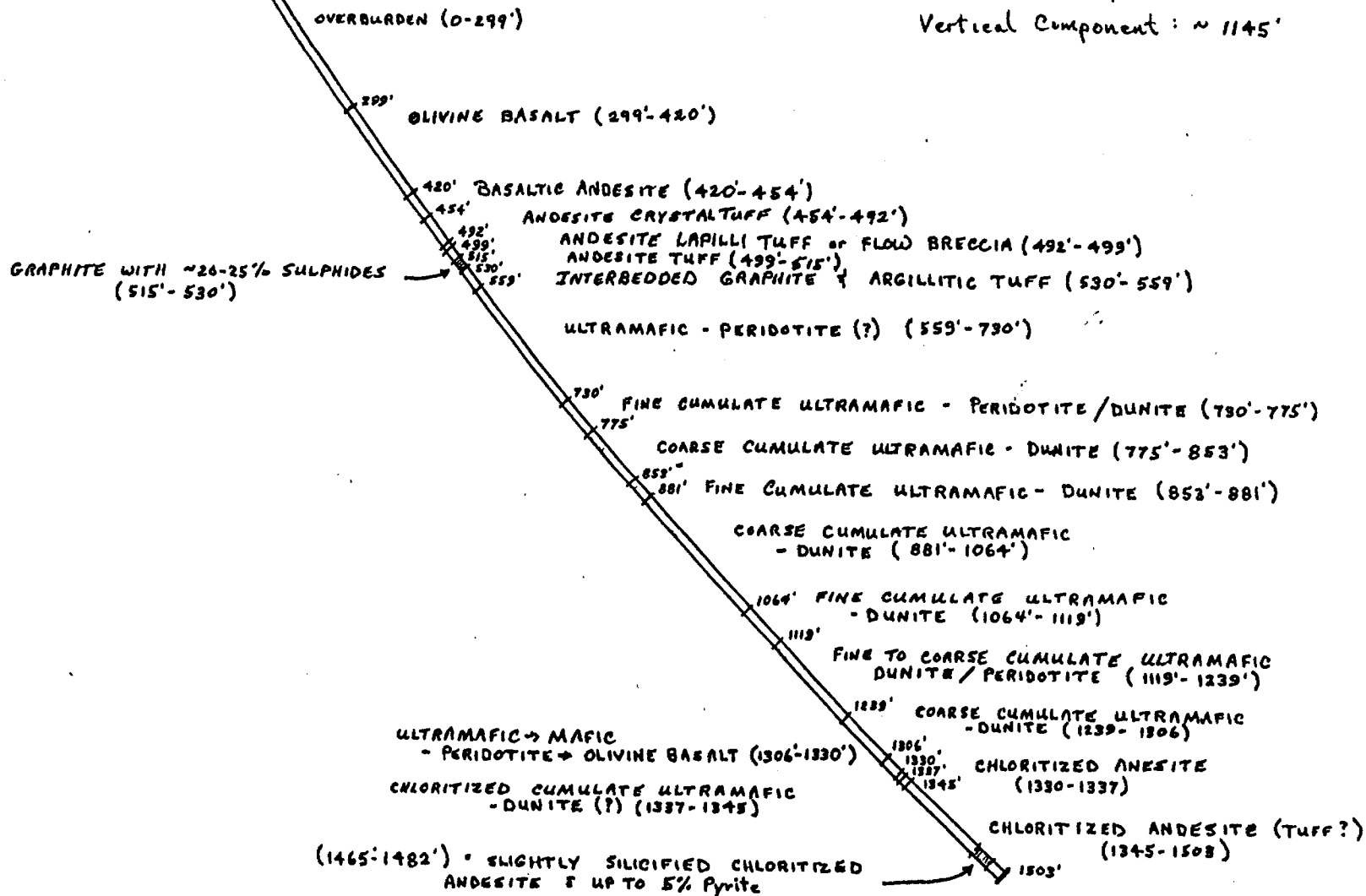
LOGGED BY: J.W. NEWSOME

SECTION	ALTERATION					FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE ~100%	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	KA	AN	OP	PH	HA												
1430									1945-1503' <u>CHLORITIZED ANDESITE</u> • for description see page 18		Tr-1%	1433.4	100	BQ	1430-1435	100	Tr-1% PY 29170
1440									1430-1435' • random gtz. calc. vns up to 2" wide X-cutting sch'ty $\frac{1}{2}$ 1-8" apart + tr. py throughout			1433.2	100		1438-1441	100	29171
									1438-1441' } thin calc \pm gtz vns // to sub // to sch'ty $\frac{1}{2}$ 3-6" apart + tr-1% py 1441-1444.5' } -throughout = sch'ty @ 60-70° to c.a.			1453'	100		1444.5	100	29172
1450									• after 1460' sch'ty ~ 90° to c.a. • appears to be an ash to crystal tuft with crystals greatly stretched along sch'ty = highly chl'z'd.			1462.9	100		1459	100	Tr-1% PY 29173
1460									1459-1482.5' • after 1465' to 1482' sect. is slig. silic'd + min. calc. alt'n. includes grey-white gtz. calc vns up to 1" wide $\frac{1}{2}$ 2-6" apart gen. 90° to core axis (// to sub // sch'ty) • py \square 's & blobs throughout section ranging from 1-5%			1472.9	100		1465	100	29174
1470									1485.5-1487' • min. gtz. calc. vns 2-6" apart, gen. // sch'ty (90° to c.a.) + 2-3% py \square 's throughout section.		1-5%	1482.6	100		1467.5	100	1-5% PY 29175
												1485.5	100		1472.5	100	29176
												1487'	100		1477.5	100	29177
											2-3%		100		1482.5	100	

Collared @ -55°, 137' from claim post #1 of claim 610998 on a bearing of 67°

SOUTH ← 24+305 SURFACE → NORTH 330'

Scale: 1:20
 Horizontal Component: ~ 980'
 Vertical Component: ~ 1145'



HOLE NO. JL-82-02

PROJECT: JIM'S LAKE (A. 365)

PAGE NO: 1 OF 23

CASING COLLAR ELEV.: 8'E of 16+865
 COORDINATES: on L-88E N. E.

GROUND ELEV.:

DATE STARTED: MARCH 12/82

REF. TO CLAIM CORNER: C.P. # 1 : 609701
 SCALE: 1" = 10' (605' on 63° bearing)

INCLINATION: -55° BEARING: 0°

DATE FINISHED: MARCH 23/82

LOGGED BY: J. W. NEWSOME

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS: -55° @ 0' -54° @ 213' -53° @ 567' -46° @ 863' -40° @ 1187' -39° @ 1503'	AVE CORE REC'Y / HOLE ~100%	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED	
	CALCITE	SERPENTINE	CHLORITE	OTHER													
							<u>0-181' - OVERBURDEN</u>						88				
180																	
	RECURVED	GROGHS	HERB	HERB			<u>181-248' COARSE CUMULATE ULTRAMAFIC - DUNITE</u> • dark green coarse grained (2-5mm) cumulate dunite composed dominantly of serpentized olivine + minor pyroxene ± very minor feldspar + abundant (≈10%) accessory magnetite. • massive with no schistosity = strongly magnetic. • minor chlorite along with strong serpentine alteration. • minor calcite alteration restricted mainly to fracture infills. • minor fractures (hairline → 1" wide, generally 1-2 mm wide) generally 3-8" apart ranging from 15-80° to core axis + infilled with calcite + serpentine (chrysotile) ± minor quartz ("bull" gtz). • sections with greater degree of fracturing + infilling split for assay. • trace smears of pyrite along fracture surfaces. • also magnesite fracture infills common ± possibly mistaken in some places as quartz.		Tr. to Nil			100				Tr. to Nil	
190											173.6						
200												100					
											203.4						
210												100		208'	100	29180	
											213.3			214'			
												100		221'	100	29181	
											223.1			222'			
220												100		227'	100	29182	
														228.5			

HOLE NO. JL-82-02

PROJECT: JIM'S LAKE (A.365)

PAGE NO: 2 OF 23

CASING COLLAR ELEV.: 8'E of 16+865

GROUND ELEV.: E.

DATE STARTED: MARCH 12/82

REF. TO CLAIM CORNER:

COORDINATES: on L-88E N.

E.

DATE FINISHED: MARCH 23/82

SCALE: 1" = 10'

INCLINATION: -55°

BEARING: 0°

TOTAL DEPTH: 1503'

LOGGED BY: J. W. NEWSOME

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE ~100%	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED			
	MO D E R A T E	STR O N G	HA L O	CH L O R I T E															
230	M O D E R A T E	S T R O N G	M O D E R A T E	M O D E R A T E			181'-248' <u>COARSE CUMULATE ULTRAMAFIC + DUNITE</u> - for description see page 1			Tr.	233'	100	80			Tr. py			
240											242.6'	100							
250							248'-511' <u>SERPENTINIZED ULTRAMAFIC + DUNITE / PERIDOTITE (?)</u> Dark green-purplish black highly serpentinized ULTRAMAFIC + dominantly serpentine + abundant chlorite alteration + moderate to strong calcite + abun. talc alteration associated with fracture infillings + veins. + strongly magnetic (up to 10% magnetite) + possibly originally a cumulate (remnant cumulate texture apparent in places + relatively highly fractured + very irregular + cross-cutting from parallel to 90° to core axis, but dominantly between 30°-60° + fractures range from hairline to 1" wide (generally 2-5 mm) and are pervasively infilled with calcite ± minor quartz + serpentine (chrysolite) + talc, ± trace pyrite smeared along fracture surfaces. - Fractures are generally 1/4" - 3" apart, but range from < 2mm to 1" apart. + calcite fracture infilling decreases rapidly after 348', giving way primarily to an increase in magnesite + chrysolite + talc + antigorite. + very highly fractured sects. from 248'-272' + 339'-348', + core sampled through sections displaying abundant amount of fracture infilling material (up to 20% by volume of sample interval) + very weak schistosity in places from 40°-60° to core axis.												
260											252.6'	100		250'	100	29183			
270											262.6'	100		253.5'	100	29184			
280											272.5'	100		257'	100	29185			
											282.4'	100		267'	100	29186			
											292.4'	100		272'	100	29187			
												100		278'	100				
												100		281'	100				
												100		288'	100				

HOLE NO. JL-82-02

PROJECT: JIM'S LAKE (A-366)

PAGE NO: 3 OF 23

CASING COLLAR ELEV.: RE 164865
 COORDINATES: ON L-BRE N. E.

GROUND ELEV.: E.

DATE STARTED: MARCH 12/82

REF. TO CLAIM CORNER:

INCLINATION: -55°

BEARING: 0°

DATE FINISHED: MARCH 23/82

SCALE: 1" = 10'

TOTAL DEPTH: 1503'

LOGGED BY: J.W. NEWSOME

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE ~ 100%	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT.	ESTI-MATED
	ANLORITTE	SERPENTINE	CHLORITTE	ACTINOLITE												
290'								248' - 511' SERPENTINIZED ULTRAMAFIC: DUNITE/PERIDOTITE (?)			292'	100	30	293'	100	Tr. Py.
								for description see page 2.						295'		
300'								5' sample intervals taken as representative of rock & not necessarily sections of abundant or above average fracture infillings.			301.9'	100				
310'											311.7'	100				
320'											321.5'	100		321'	100	29189
														325'		
330'								possibly remnant cumulate text from 331'-341'			331.4'	100		330'	100	29190
														335'		
														339'		
											341.2'	100		343'	100	29191
														348'	100	29192

29188

29189

29190

29191

29192

HOLE NO. JL-82-02

PROJECT: JIM'S LAKE (A.365)

PAGE NO: 4 OF 23

CASING COLLAR ELEV.: GROUND ELEV.:

DATE STARTED: MARCH 12/82

REF. TO CLAIM CORNER:

COORDINATES: 8'E. of 16+865 on L. 88E N. E.

DATE FINISHED: MARCH 23/82

SCALE: 1"=10'

INCLINATION: -55° BEARING: 0°

TOTAL DEPTH: 1503'

LOGGED BY: J.W. NEWSOME

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE ~100%	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	CHLORITE	SERPENTINE	CHLOROPHANE	ACTINOLITE												
350'	MODERATE	GOOD	POOR	POOR	LL		<p>248'-511' SERPENTINIZED ULTRAMAFIC: DUNITE/PERIDOTITE (?)</p> <p>• for description see page 2.</p>		Tr	351.1'	100	BD	354'	100	Tr. Pj	29193
360'										361'	100		359'			
370'										370.8'	100		375'	100		29194
380'										380.6'	100		380'			
390'							<p>after 390' • more massive with strong serpentine & chlorite alteration & less fracturing • generally 2mm - hairline, but up to 1" wide • vary from subparallel to 80° to core axis, but generally 50°-60° to core axis (many hairline fractures sub // to 50° to c.a.) • range from 1" - 1' apart (generally ~ 6" apart) & infilled with serpentine (chrysotile) + talc ± quartz ("bull" gtz.) - (minor) + magnesite + antigorite</p>			390.4'	100		385'	100		29195
										400.1'	100		389'			
											100		408.5'			29196

HOLE NO. JL-82-02

PROJECT: JIM'S LAKE (A-365)

PAGE NO: 5 OF 23

CASING COLLAR ELEV.: 8'E of 16+B6S GROUND ELEV.:

DATE STARTED: MARCH 12/82

REF. TO CLAIM CORNER:

COORDINATES: on L-88E N. E.

DATE FINISHED: MARCH 23/82

SCALE: 1" = 10'

INCLINATION: -55° BEARING: 0°

TOTAL DEPTH: 1503'

LOGGED BY: J. W. NEWSOME

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE ~ 100%	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	CHLORITE	QUARTZ	HYDROXIDE	HAEMATITE												
410'	ROUGHEN TO SMOOTH	SMOOTH	SMOOTH	SMOOTH	X		248-511' SERPENTINIZED ULTRAMAFIC: DUNITE/PERIDOTITE (?) For description, see pages 2 & 4			Tr.	100	BQ	411.5	100	Tr. B.	29196
420'					X						100		421	100		29197
					X						100		426	100		29198
					X						100		429	100		29199
					X						100		434	100		29200
					X						100		448	100		
					X						100		449.5	100		
					X						100		459.5	100		

EASING COLLAR ELEV.: 8'E - 16+865

GROUND ELEV.: E.

DATE STARTED: MARCH 12/82

REF. TO CLAIM CORNER:

COORDINATES: on L-88E N.

DATE FINISHED: MARCH 23/82

SCALE: 1" = 10'

INCLINATION: -55°

BEARING: 0°

TOTAL DEPTH: 1503'

LOGGED BY: J. W. Newsome

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE ~100%	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	HAZARD	CHLORITE	QUARTZ	OTHER												
470'							<p><u>248'-511'</u> SERPENTINIZED ULTRAMAFIC: DUNITE / PERIDOTITE (?)</p> <p>• for description, see pages 2 & 4.</p>		Tr.		100	BQ	473'	100	Tr. P ₂	29201
460'											100		473.5'	100		29202
											100		477.5'	100		
											100		479'	100		
490'											100		489'	100		29203
											100		493.5'	100		
											100		494'	100		29204
500'							<p><u>511'-630'</u> COARSE CUMULATE ULTRAMAFIC: DUNITE</p> <p>• dark green - purple/bluish/black • coarse grained cumulate (2-5mm) • highly serpentinized & chloritized (waxy) • composed dominantly of serpentinized olivine + pyroxene + abundant accessory magnetite (up to 10%) interstitial between olivine grains & as 'islands' • strongly magnetic • massive with no apparent schistosity • highly fractured • generally hairline to 2mm, but up to 3" wide of fracture infillings • vary from 1mm to 6" apart, generally < 1" apart & random to X-cutting orientation from sub parallel to 80° to core axis (fractures > 2mm wide generally vary from 40-70° to core axis)</p> <p>• in places, rock is virtually 'shattered' • fractures are dominantly infilled with calcite + chrysotile (+ other serpentine minerals) + talc + minor chlorite & very minor quartz (hairline > 2mm fractures generally calc: chrysotile infills)</p> <p>• also common & pervasive along fracture surfaces is an unidentified</p>		Tr.		100		498.5'	100		29205
											100		502'	100		
510'											100		507'	100		
											100		518.4'	100		
520'											100		523.5'	100		29206
											100		528'	100		29207

cont-

HOLE NO. JL-82-02

CASING COLLAR ELEV.: 8'E 16+86.5

COORDINATES: ON L-88E N.

INCLINATION: -55°

GROUND ELEV.: E.

BEARING: 0°

PROJECT: JIM'S LAKE (A-365)

DATE STARTED: MARCH 12/82
DATE FINISHED: MARCH 23/82

TOTAL DEPTH: 1503'

PAGE NO: 7 OF 23

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY: J. W. NEWSOME

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE ~100%	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED	
	CHLORITIC	SERPENTINIC	CARBONATE	HYDRATED													
530'	STRONG	STRONG	MODERATE	MODERATE	✓		<p>511-630' <u>COARSE CUMULATE ULTRAMAFIC: DUNITE</u> (cont.-)</p> <p>medium dull blue mineral/alteration product: amorphous & no crystal structure (serpentine?)</p> <ul style="list-style-type: none"> • sample intervals of more pervasive fractured sections with ≥ 10% of rock represented by fracture infillings @ 5' sample intervals indicative of overall rock type. • abundant fracture infillings (≥ 50% of rock sample interval) of calcite-chrysotile-talc @ 528'-530.5' + 598'-602' 									29207	
540'					✓						538'	100	BQ	531'	100	Tr. Py.	29208
550'					✓						547.9'	100		536'	100		29209
560'					✓						552.8'	100		538'	100		29210
570'					✓						557.6'	100		532.5'	100		29211
					✓						567.6'	100		537.5'	100		29212
					✓						577.5'	100		562'	100		
					✓						587.7'	100		567'	100		
					✓									577'	100		
					✓									578.5'	100		
					✓									586'	100		

CASING COLLAR ELEV.: 8' E. of P 16 + 86 S GROUND ELEV.:
 COORDINATES: on L-88E N. E.
 INCLINATION: -55° BEARING: 0°

DATE STARTED: MARCH 23/82
 DATE FINISHED: MARCH 23/82
 TOTAL DEPTH: 1503'

SCALE: 1" = 10'
 LOGGED BY: J. W. Newsome

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE ~100%	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTI-MATED				
	HAZARD	SERICITIC	CHLORITIC	TALC/SERP																
590'							<p><u>511'-630'</u> <u>COARSE CUMULATE ULTRAMAFIC: DUNITE</u></p> <p>• for description see pages 6 + 7</p>			Tr.		100	BQ	591'	100	Tr. Py	29212			
600'											597.1'	100		598'	100		29213			
610'							<p><u>630'-635'</u> <u>FINE CUMULATE ULTRAMAFIC: DUNITE / PERIDOTITE (?)</u></p> <p>• gradational contacts • highly fractured + very strong serpentine + chlorite alteration • weak to moderate schistosity $\approx 30^\circ$ to core axis • more pronounced toward 635' • increase in chlorite + talc/sericite alteration toward 635' • possibly due to increase in tallopar content ± corresponding decrease in serpentine • rounded 'blebs' of dom. magnetite up to $\frac{1}{4}$" in diameter • moderate to strongly magnetic • very highly fractured (almost cataclastic) • hairline - 2mm wide + infilled with talc - calcite + minor chl. + serp. + tr. py. + magnesite.</p>				607'	100		618.5'	100		623'	100		29214
620'											616.8'	100		628'	100		29215			
630'							<p><u>635'-642'</u> <u>CHLORITIZED ANDESITE (TUFF)</u></p> <p>• above grades into highly chloritized + schistose ($45^\circ-55^\circ$ to core axis) very fine grained medium green andesite with moderate sericite alteration • minor calcite alteration assoc'd with quartz fracture infillings dominantly parallel to schistosity, 1mm-2" wide (gen. $< \frac{1}{2}$") ± 1"-6" apart ± trace cubic pyrite • very minor fractures subparallel to core axis infilled with calcite.</p>			Tr.		100		633'	100		642'	100		29216
640'							<p><u>642'-687'</u> <u>DIORITE</u></p>				646.4'	100								

HOLE NO. JL-82-02

PROJECT: JIM'S LAKE (A-365)

PAGE NO: 9 OF 23

CASING COLLAR ELEV.: 8'E. of 16+86.5 GROUND ELEV.:

DATE STARTED: MARCH 12/82

REF. TO CLAIM CORNER:

COORDINATES: on L-88E N. E.

DATE FINISHED: MARCH 23/82

SCALE: 1" = 10'

INCLINATION: -55° BEARING: 0°

TOTAL DEPTH: 1503'

LOGGED BY: J.W. Newsome

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE RECY / HOLE ~100%	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% RECY. SAMP. INT.	ESTI-MATED
	CHLORITIZATION	SERICITIZATION	CARBONATATION	QUARTZ VEINING												
650'							<p><u>642'-687' DIORITE</u></p> <ul style="list-style-type: none"> massive (no shearing or schistosity) fine grain (<1mm) ophitic diorite gradational contacts (probably a concordant sill) • chloritized mafics ± very minor free quartz (possibly borderline to gabbro) • cut by minor quartz ± minor calcite veins (1mm-2" wide, gen. < 1/2") @ 20-50° to core axis & 6"-1' apart with trace pyrite ± trace chalcopyrite along vein margins. 		Tr-12	656.8'	100	100	651'	100	Tr-1% P.	29217
660'											100		656'			
670'							<p><u>687'-704' ANDESITE TUFF - (BASALT?)</u></p> <ul style="list-style-type: none"> very fine grained ash-to-fine crystal tuff • medium green & highly chloritized with weak to moderate sericite alteration • gradational contacts • more massive near contacts with prominent schistosity (60° to core axis) produced in central portions of section • tr. to 1% pyrite throughout (cubic) with quartz veins 2mm-1" wide from parallel to core axis to generally parallel to schistosity mostly 'bull' quartz with tr-1% pyrite along vein margins. • veins 1-6" apart & comprise < 10% of rock by volume, • possibly close to a basalt in composition. 			675.5'	100	100	676'	100	Tr. py. + cpy.	29218
680'											100		681'			
690'							<p><u>704'-745' DIORITE / GABBRO(?)</u></p> <ul style="list-style-type: none"> gradational contacts • alternating coarse (<5mm) to fine (<1mm) grained ophitic diorite • to • gabbro • comp. dom. of 40% feldspar & 60% chloritized mafics • massive with no apparent schistosity • tr. py. (cubic) ± po. ± v. min. tr. cpy throughout section, but generally associated with coarser grained sections • minor quartz-calcite veins cross-cutting core axis from 2mm-1" wide & 1-2' apart. • non-magnetic. 			685.7'	100	100	682.5'	100	Tr-1% P.	29219
700'											100		694.5'			
											100		699'		Tr-1% P.	29220
											100		704'			

HOLE NO. JL-82-02

PROJECT: JIM'S LAKE (A-365)

PAGE NO: 11 OF 23

CASING COLLAR ELEV.: 8'E. of 16+865 GROUND ELEV.:

DATE STARTED: MARCH 12/82

REF. TO CLAIM CORNER:

COORDINATES: on L-RRR N. E.

DATE FINISHED: MARCH 23/82

SCALE: 1"=10'

INCLINATION: -55° BEARING: 0°

TOTAL DEPTH: 1503'

LOGGED BY: J.W. Newsome

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE ~100%	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT.	ESTI-MATED
	CHLORITIZATION	SILICIFICATION	OXIDATION	HYDRATION												
770'	ST	NIL	WEAK	WEAK			745'-872' CHLORITIZED ANDESITE / BASALT = for description see page 10		Tr. 21%		100	B/D	772.5' 771'	100	17 PY	29225
780'											100					
790'											100		792.5' 792.5'	100	17 PY	29226
800'											100		802' 804'	100	12 PY	29227
810'											100		804' 809'	100	17 PY	29228
820'											100		813.7' 823.5' 823.5'	100	17 PY	29229

HOLE NO. JL-82-02

PROJECT: JIM'S LAKE (A.365)

PAGE NO: 12 OF 23

CASING COLLAR ELEV.: GROUND ELEV.:

DATE STARTED: MARCH 12/82

REF. TO CLAIM CORNER:

COORDINATES: 8' E. of 16+86.5
on L-RBE N. E.

DATE FINISHED: MARCH 23/82

SCALE: 1" = 10'

INCLINATION: -55° BEARING: 0°

TOTAL DEPTH: 1503'

LOGGED BY: J. W. NEWSOME

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED	
	CHLORITIZATION	SERICITIZATION	CARBONATATION	OXIDATION													
830'							745'-872' <u>CHLORITIZED ANDESITE / BASALT</u>	~100%									
							for description see page 10										
840'																	
850'																	
860'							872'-1130' <u>CHLORITIZED ANDESITE (TUFF)</u>										
							• light-medium green fine grained highly chloritized andesite ash to fine crystal tuff. • minor sericite alteration (restricted) ± weak to moderate calcite alteration within groundmass as well as associated with quartz veins ± fracture infillings. • well pronounced schistosity generally 40°-50° to core axis. • non-magnetic. • after 980', schistosity varies from ~60°-70° to core axis. • fr. cubic pyrite throughout section. • py. increases to ~2% in more calcareous sections. • minor quartz-calcite veins ranging from hairline to 2" wide (gen. < 1/4") ± 1" to 2' apart (gen. well spaced) randomly oriented from subparallel to 90° to core axis. • very weak association of vein orientation to schistosity. • generally fracture infillings dominantly of calcite ± quartz. • very minor fractures • generally widely spaced (>6") ± subparallel to schistosity ± thin (<2mm wide). - cont. -										
870'																	
880'																	

29230
29231

29232

29233

MOLE NO. JL-82-02

PROJECT: JIM'S LAKE (A-365)

PAGE NO: 13 OF 23

CASING COLLAR ELEV.: 8'E. of 16+86.5

GROUND ELEV.: E.

DATE STARTED: MARCH 12/82

REF. TO CLAIM CORNER:

COORDINATES: ON L-88E N.

DATE FINISHED: MARCH 29/82

SCALE: 1" = 10'

INCLINATION: -55° BEARING: 0°

TOTAL DEPTH: 1503'

LOGGED BY: T.W. NEWSOME

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE ~ 100 %	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	OXIDATION	SULPHIDATION	CARBONATE	HYDROLYSIS												
890'	STRONG	MODERATE	MODERATE	MODERATE			872'-1130' CHLORITIZED ANDESITE (TUFF) - cont. - sample intervals taken where amount of sulphides (pyrite) ranges from 1-2% for 5' sections representative of section in general.		Tr-2%	892.4	100	BQ	892.5	100	1% py	29233
900'										902.3	100		901'	100	1-2% py	29234
											100		905.5'	100	1-2% py	29235
910'										912.1'	100		910'	100	1-2% py	29236
											100		914.5'	100		
920'										922'	100		924'	100	1% py	29237
											100		925'	100		
930'										931.8'	100		932'	100	2% py	29238
											100		939'	100		
940'										941.6'	100					

HOLE NO. JL-82-02

PROJECT: JIM'S LAKE (A-365)

PAGE NO: 14 OF 23

CASING COLLAR ELEV.: 8' E. of 16+865
 COORDINATES: on L-88E N. E.

GROUND ELEV.: E.

DATE STARTED: MARCH 12/82

REF. TO CLAIM CORNER:

INCLINATION: -55° BEARING: 0°

DATE FINISHED: MARCH 23/82

SCALE: 1" = 10'

TOTAL DEPTH: 1503'

LOGGED BY: J. W. NEWSOME

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE RECY / HOLE ~100%	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% RECY. SAMP. INT.	ESTI-MATED	
	CHLORITIC	ORPHIC	HYDRO-THERMAL	ANOMALOUS													
950'							<p>872-1130' CHLORITIZED ANDESITE (TUFF)</p> <p>for description, see pages 12 & 13.</p>				950'-951'	100	BQ	950'-951'	100	17% py	29239
910'							<p>prior to 987' slightly siliceous chloritized fine andesite crystal tuff with thin (<2mm) quartz veins 2"-6" apart parallel to schistosity (~70° to core axis) + trace cubic pyrite throughout</p>				951'-962'	100		957'-962'	100	Tr-1% py	29240
970'							<p>987'-996.5' (80x48+44) moderately siliceous fine grained chloritized andesite (possibly dacitic) tuff. with flecks of fuchsite throughout (upto 30% of composition) + trace to 1% cubic pyrite throughout section. hairline to 2" wide white (with gray margins) quartz veins approx. 2"-6" apart cross-cutting to subparallel to core axis. also minor thin (<1mm wide) quartz veinlets parallel to schistosity (~70° to core axis) & <1" apart (possibly reflects more siliceous nature of section). section also includes very fine grained alteration mineral - pale yellow in colour - possibly sericite?</p>				962'-971'	100		971'-972'	100	2% py	29241
980'							<p>972'-977' (80x48+44) moderately siliceous fine grained chloritized andesite (possibly dacitic) tuff. with flecks of fuchsite throughout (upto 30% of composition) + trace to 1% cubic pyrite throughout section. hairline to 2" wide white (with gray margins) quartz veins approx. 2"-6" apart cross-cutting to subparallel to core axis. also minor thin (<1mm wide) quartz veinlets parallel to schistosity (~70° to core axis) & <1" apart (possibly reflects more siliceous nature of section). section also includes very fine grained alteration mineral - pale yellow in colour - possibly sericite?</p>				971'-977'	100		972'-977'	100	Tr-1% py	29242
990'							<p>977'-981.5' (80x48+44) moderately siliceous fine grained chloritized andesite (possibly dacitic) tuff. with flecks of fuchsite throughout (upto 30% of composition) + trace to 1% cubic pyrite throughout section. hairline to 2" wide white (with gray margins) quartz veins approx. 2"-6" apart cross-cutting to subparallel to core axis. also minor thin (<1mm wide) quartz veinlets parallel to schistosity (~70° to core axis) & <1" apart (possibly reflects more siliceous nature of section). section also includes very fine grained alteration mineral - pale yellow in colour - possibly sericite?</p>				977'-981.5'	100		981.5'-986.5'	100		29243
							<p>981.5'-986.5' (80x48+44) moderately siliceous fine grained chloritized andesite (possibly dacitic) tuff. with flecks of fuchsite throughout (upto 30% of composition) + trace to 1% cubic pyrite throughout section. hairline to 2" wide white (with gray margins) quartz veins approx. 2"-6" apart cross-cutting to subparallel to core axis. also minor thin (<1mm wide) quartz veinlets parallel to schistosity (~70° to core axis) & <1" apart (possibly reflects more siliceous nature of section). section also includes very fine grained alteration mineral - pale yellow in colour - possibly sericite?</p>				981.5'-986.5'	100		986.5'-989'	100	17% py	29244
							<p>986.5'-990.9' (80x48+44) moderately siliceous fine grained chloritized andesite (possibly dacitic) tuff. with flecks of fuchsite throughout (upto 30% of composition) + trace to 1% cubic pyrite throughout section. hairline to 2" wide white (with gray margins) quartz veins approx. 2"-6" apart cross-cutting to subparallel to core axis. also minor thin (<1mm wide) quartz veinlets parallel to schistosity (~70° to core axis) & <1" apart (possibly reflects more siliceous nature of section). section also includes very fine grained alteration mineral - pale yellow in colour - possibly sericite?</p>				986.5'-990.9'	100		989'-991'	100		29245
							<p>990.9'-996.5' (80x48+44) moderately siliceous fine grained chloritized andesite (possibly dacitic) tuff. with flecks of fuchsite throughout (upto 30% of composition) + trace to 1% cubic pyrite throughout section. hairline to 2" wide white (with gray margins) quartz veins approx. 2"-6" apart cross-cutting to subparallel to core axis. also minor thin (<1mm wide) quartz veinlets parallel to schistosity (~70° to core axis) & <1" apart (possibly reflects more siliceous nature of section). section also includes very fine grained alteration mineral - pale yellow in colour - possibly sericite?</p>				990.9'-996.5'	100		991'-993.5'	100		29246
							<p>996.5'-1003' (80x48+44) moderately siliceous fine grained chloritized andesite (possibly dacitic) tuff. with flecks of fuchsite throughout (upto 30% of composition) + trace to 1% cubic pyrite throughout section. hairline to 2" wide white (with gray margins) quartz veins approx. 2"-6" apart cross-cutting to subparallel to core axis. also minor thin (<1mm wide) quartz veinlets parallel to schistosity (~70° to core axis) & <1" apart (possibly reflects more siliceous nature of section). section also includes very fine grained alteration mineral - pale yellow in colour - possibly sericite?</p>				996.5'-1003'	100		993.5'-996'	100		29247
							<p>1003'-1005' (80x48+44) moderately siliceous fine grained chloritized andesite (possibly dacitic) tuff. with flecks of fuchsite throughout (upto 30% of composition) + trace to 1% cubic pyrite throughout section. hairline to 2" wide white (with gray margins) quartz veins approx. 2"-6" apart cross-cutting to subparallel to core axis. also minor thin (<1mm wide) quartz veinlets parallel to schistosity (~70° to core axis) & <1" apart (possibly reflects more siliceous nature of section). section also includes very fine grained alteration mineral - pale yellow in colour - possibly sericite?</p>				1003'-1005'	100		996'-996.5'	100		29248
							<p>1005'-1008' (80x48+44) moderately siliceous fine grained chloritized andesite (possibly dacitic) tuff. with flecks of fuchsite throughout (upto 30% of composition) + trace to 1% cubic pyrite throughout section. hairline to 2" wide white (with gray margins) quartz veins approx. 2"-6" apart cross-cutting to subparallel to core axis. also minor thin (<1mm wide) quartz veinlets parallel to schistosity (~70° to core axis) & <1" apart (possibly reflects more siliceous nature of section). section also includes very fine grained alteration mineral - pale yellow in colour - possibly sericite?</p>				1005'-1008'	100		996.5'-1000.5'	100		29249
							<p>1008'-1009' (80x48+44) moderately siliceous fine grained chloritized andesite (possibly dacitic) tuff. with flecks of fuchsite throughout (upto 30% of composition) + trace to 1% cubic pyrite throughout section. hairline to 2" wide white (with gray margins) quartz veins approx. 2"-6" apart cross-cutting to subparallel to core axis. also minor thin (<1mm wide) quartz veinlets parallel to schistosity (~70° to core axis) & <1" apart (possibly reflects more siliceous nature of section). section also includes very fine grained alteration mineral - pale yellow in colour - possibly sericite?</p>				1008'-1009'	100		1000.5'-1005'	100	Tr-1% py	29250
							<p>1009'-1010' (80x48+44) moderately siliceous fine grained chloritized andesite (possibly dacitic) tuff. with flecks of fuchsite throughout (upto 30% of composition) + trace to 1% cubic pyrite throughout section. hairline to 2" wide white (with gray margins) quartz veins approx. 2"-6" apart cross-cutting to subparallel to core axis. also minor thin (<1mm wide) quartz veinlets parallel to schistosity (~70° to core axis) & <1" apart (possibly reflects more siliceous nature of section). section also includes very fine grained alteration mineral - pale yellow in colour - possibly sericite?</p>				1009'-1010'	100		1005'-1008'	100		29251
							<p>1010'-1011' (80x48+44) moderately siliceous fine grained chloritized andesite (possibly dacitic) tuff. with flecks of fuchsite throughout (upto 30% of composition) + trace to 1% cubic pyrite throughout section. hairline to 2" wide white (with gray margins) quartz veins approx. 2"-6" apart cross-cutting to subparallel to core axis. also minor thin (<1mm wide) quartz veinlets parallel to schistosity (~70° to core axis) & <1" apart (possibly reflects more siliceous nature of section). section also includes very fine grained alteration mineral - pale yellow in colour - possibly sericite?</p>				1010'-1011'	100		1008'-1009'	100		29252

MOLE NO. L-82-02
 CASING COLLAR ELEV.:
 COORDINATES: 8'E. of 16+865
 on L-88E N.
 INCLINATION: -55°

GROUND ELEV.:
 E.

BEARING: 0°

PROJECT: JIM'S LAKE (A-363)
 DATE STARTED: MARCH 12/82
 DATE FINISHED: MARCH 23/82
 TOTAL DEPTH: 1503'

PAGE NO: 15 OF 23

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY: J. W. NEWSOME

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE ~100%	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTI-MATED	
	SPORADIC	CHLORITIC	ANhydrite	Fe-oxide													
1010							<p>872'-1130' <u>CHLORITIZED ANDESITE (TUFF)</u></p> <ul style="list-style-type: none"> borderline to basalt for description, see pages 12 & 13. <p>• after 1010' - quartz veins in range of 1/2" wide are rare (10:20' apart) - most vein & fracture infillings are calcite ± quartz & 6"-1' apart on average. - also less calcite alteration in groundmass. - sample intervals taken where quartz-calc. veins comprise ~10% of rock or greater or where pyrite ≥ 1%</p> <p>• minor hematite staining on fractures</p> <p>• 1008'-1018' - moderately magnetic with very fine grained magnetite (upto 2%) disseminated throughout.</p> <p>• 1030'-1032' - relatively siliceous section (alternating silic-chl. bands // to schistosity @ ~70° to c.a.) ± ~2% pyrite cubes dissem. in 'bands'</p> <p><u>N.B.</u> - from 1010'-1030', rock is rel. dense, f.g. & dark green - may be much closer to a basalt in composition rather than andesite. - in parts, also may be more of a flow unit rather than a tuff.</p>										29252
1020											1010.5	100	80	1015'	100	1% py	29253
											1020.9	100		1018'	100	"	29254
												100		1020.9	100	"	29255
												100		1021.5	100	"	29255
1030											1030.2	100		1029'	100	2% py	29256
												100		1033'	100		
1040											1040.1	100					
												100					
1050											1049.9	100		1048'	100	1% py	29257
												100		1050.5	100		
1060											1059.8	100					
												100		1066.5	100	1% py	29258
											1068.6			1068'			

ALTERATION				FRACTURING:	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE ~100%	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
CHLORITIZATION	SERICITIZATION	HYDROTHERMAL	FRACTURING:												
70							872'-1130' <u>CHLORITIZED ANDESITE (TUFF)</u>					BQ			
							• for description, see pages 12, 13, & 15.								
							• after 1080' schistosity is dominantly @ 70°-80° to core axis and varying from weak to strong.								
							• 1091'-1093.5' • slightly silicified section of fine crystal tuff containing up to 2% dissem. pyrite cubes + minor quartz veining.						1091' 1093.5'	100	2Z py 29260
							• 1094.5'-1095.5' • 1" wide gtz. calc. vein sub// to core axis.						1094.5' 1095.5'	100	Tr. py. 29261
							1104'-1108' • appears 'intrusive' with very weak to no schistosity								
							1122'-1127' • minor calc-gtz. vns • typical rock section with trace dissem. py. cubes.								
							<u>N.P.</u> • whole unit from 872'-1130' (particularly after 1010') may range from andesite to basalt? tuffs to flows • more massive sections may in fact be dioritic/gabbroic 'flows'.								
													1122' 1127'	100	Tr. py 29262

HOLE NO. JL-82-02

PROJECT: JIM'S LAKE (A.365)

PAGE NO: 18 OF 23

CASING COLLAR ELEV.: 8'E. of 16+865 GROUND ELEV.:

DATE STARTED: MARCH 12/82

REF. TO CLAIM CORNER:

COORDINATES: on L-88E N. E.

DATE FINISHED: MARCH 23/82

SCALE: 1" = 10'

INCLINATION: -55° BEARING: 0°

TOTAL DEPTH: 1503'

LOGGED BY: J. W. Newsome

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE ~100%	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTIMATED
	MODERATE TO STRONG	MODERATE TO WEAK	MODERATE TO WEAK	MODERATE TO WEAK												
1190'							<p><u>1170'-1186'</u> <u>CARBONACEOUS - GRAPHITIC SCHIST.</u></p> <p>• gray-greenish (minor chl.-sor. alt'n + wk. silica) dom. carbonaceous-graphite schist with minor calc. vnlts // sch'ty (~70° to c.a.) ± 8-10% py. as dissem. f. cubes ± 'wisps' along fracture infillings + tr. po. + ep.</p>		5-2%		100	BQ	1180.5	100	5-2% PY	29275
1200'							<p><u>1186'-1189.5'</u> <u>GRAPHITE</u></p> <p>• highly fractured (cataclastic) black graphite ± fracture infillings (~40%) of calc. ± gtz. ± 2-5% py ± cubes to amorph. blobs ± assoc'd with gtz. fract. infillings ± tr. po.</p>				100		1197.6	100		29276
1210'							<p><u>1189.5'-1231'</u> <u>FRAGMENTED CARB.-GRAPH. SCHIST → CHLORITIZED ANDESITE</u></p> <p>• fragmented carbonaceous graphitic schist gray-greenish sugary texture slowly grades into f. grained fragmented chloritized andesite (with weak calc. alt'n) ± very weak schistosity in places from 70°-90° to core axis. ± fragments are 'welded' together by calc-graphite infillings bearing 5-2% pyrite cubes to amorphous 'stringers' or 'wisps' ± 80% of fract. are // to sub// to sch'ty. ± in places, and. appears intrusive ± massive ± f. g. with no sch'ty. (possibly shallow diorite intrusives sills or concord. dykes?) ± calc-graph. fract. infills X-cut massive 'diorite-like' sections (1210'-1213') ± pyrite min'n decreases down section</p>				100		1200	100		29277
1220'											100		1205	100	4-2% PY	29278
1230'											100		1207.4	100		29279
											100		1210	100		29280
											100		1212.5	100	3-2% PY	29281
											100		1215	100		29282
											100		1220	100		29283
											100		1225	100	2% PY	29284
											100		1227.1	100		29285
											100		1231	100		29286
							<p><u>1231'-1250'</u> <u>CHLORITIZED ANDESITE TUFF</u></p> <p>Highly chloritized f.g. andesitic ash to fine crystal tuff with minor calcite alt'n within groundmass as well as hairline → 2mm fracture infillings ± minor fract. gen // to sch'ty (~70° to c.a.) with minor barren gtz. vns (< 5% of rock) gen X-cutting ± 2mm-2" wide ± 1'-3' apart.</p>				100		1236.9	100		29287
											100		1237	100		29288
											100		1238	100		29289

HOLE NO. JL-82-02

PROJECT: JIM'S LAKE (A-365)

PAGE NO: 19 OF 23

CASING COLLAR ELEV.: 8' E. of 16+865 GROUND ELEV.:

DATE STARTED: March 12/82

REF. TO CLAIM CORNER:

COORDINATES: L-88E. N. E.

DATE FINISHED: March 23/82

SCALE: 1"=10'

INCLINATION: -55° BEARING: 0°

TOTAL DEPTH: 1503'

LOGGED BY: J.W. Newsome

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE ~100%	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT.	ESTI-MATED
	SPALDING	SOODERETH	WICK	WIL												
1250'	SPALDING	SOODERETH	WICK	WIL			<p><u>1250'-1276'</u> <u>ANDESITE-BASALT TUFFS & DIORITE-GABBRO 'FLOWS'</u></p> <p>• green f.g. slightly schistose (~80° to c.a.) to massive & moderately chloritized. • schistose sections resembling ash-crystal tuffs grade into massive ophitic sections of diorite-gabbro comp. (dior-gab. 'interflows'?) • more massive ophitic texture composes ~80% of section. • vy. minor gtz-calc. vns. • gen. <1mm wide to 2" & 6"-2' apart X-cutting c.a. @ 30°-90° (<5% un. material) + vy. min. tr. py cubes dissem. throughout. • 1263'-1268' typical of section</p>	100%	Tr.	1256.6	100	1263'	100	1268'	tr. py.	29285
1260'	SPALDING	SOODERETH	WICK	WIL			<p><u>1276'-1302'</u> <u>CHLORITIZED ANDESITIC-BASALT TUFF</u></p> <p>• f.g. to vy. f.g. green chloritized andesitic-basalt ash to fine crystal tuff • weak to strong sch'ty @ ~85°-90° to core axis • minor gtz-calc. veins (<1mm - 1/4" wide) randomly oriented from // to sch'ty to // to core axis = vuggy infills of calc. along min. fract. gen // to core axis. • tr-1% po+py dissem. throughout • 1282'-1286' typical of section.</p>	100%	Tr	1276.3	100	1282'	100	1288'		29286
1270'	SPALDING	SOODERETH	WICK	WIL			<p><u>1302'-1316'</u> <u>Chloritized Andesite-BASALT TUFF & SILICIFIED SEGMENTS</u></p> <p>• chloritized andesite to basalt ash to fine crystal tuff = mod → strong calc. all'n (in groundmass & fract.) & mod. → strong schistosity ~70° to core axis. • abun. (up to 60%) gtz-calc. vns. up to 2" wide & // to sub // to sch'ty with 3-5% dissem. py+po stringers & blobs. • 307.5-310 & 312-314.5 = highly fractured silicified zones • cont-</p>	100%	Tr.	1296'	100	1301'	100	1302.5'	Tr. PY	29287
1280'	SPALDING	SOODERETH	WICK	WIL				100%	Tr-12	1305.5	100	1307.5'	100	1% py	29288	
1290'	SPALDING	SOODERETH	WICK	WIL				100%	3-5%	1305.5	100	1307.5'	100	3-5% py+po + tr. py	29289	
1300'	SPALDING	SOODERETH	WICK	WIL				100%	3-5%	1305.5	100	1307.5'	100	5-8% PY+PO	29290	

HOLE NO. JL-82-02
 CASING COLLAR ELEV.: 8'E. of 16+86 S GROUND ELEV.:
 COORDINATES: on L-88E N. E.
 INCLINATION: -55° BEARING: 0°

PROJECT: JIM'S LAKE (A. 365)
 DATE STARTED: MARCH 12/82
 DATE FINISHED: MARCH 23/82
 TOTAL DEPTH: 1503'

PAGE NO: 22 OF 23
 REF. TO CLAIM CORNER:
 SCALE: 1" = 10'
 LOGGED BY: F. W. Newsome

SECTION	ALTERATION					FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE ~100%	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	CHLORITIC	HEAVY	MODERATE	WEAK	TO LOWER												
1430	GRN	HEAVY	MODERATE	WEAK	TO LOWER			1425.5' - 1445' <u>DIORITE</u>	<ul style="list-style-type: none"> • For description, see page 21 		Nil to Tr.	100	BQ				
1440								1445' - 1503' <u>CHLORITIZED BASALT-ANDESITE TUFF</u>		<ul style="list-style-type: none"> • highly chloritized fine grained dark green dominantly basalt + minor andesite ash to fine crystal tuff. • weak calcite alt'n + weak sericite alt'n near bottom of section. • vy. minor fracts gen. // to schistosity (~70° to core axis) + infilled with calcite ± minor barren quartz. • Traces - 1% disseminated pyrite cubes up to 2mm wide throughout section 1453.5' - 1458' + 1482.5' - 1487' sample intervals typical of section. 		Tr. to 1%	100				
1450												100					
1460												100			1453.5' - 1458'	1% py	29298
1470												100					
1480												100			1482.5' - 1487'	Tr. py	29299

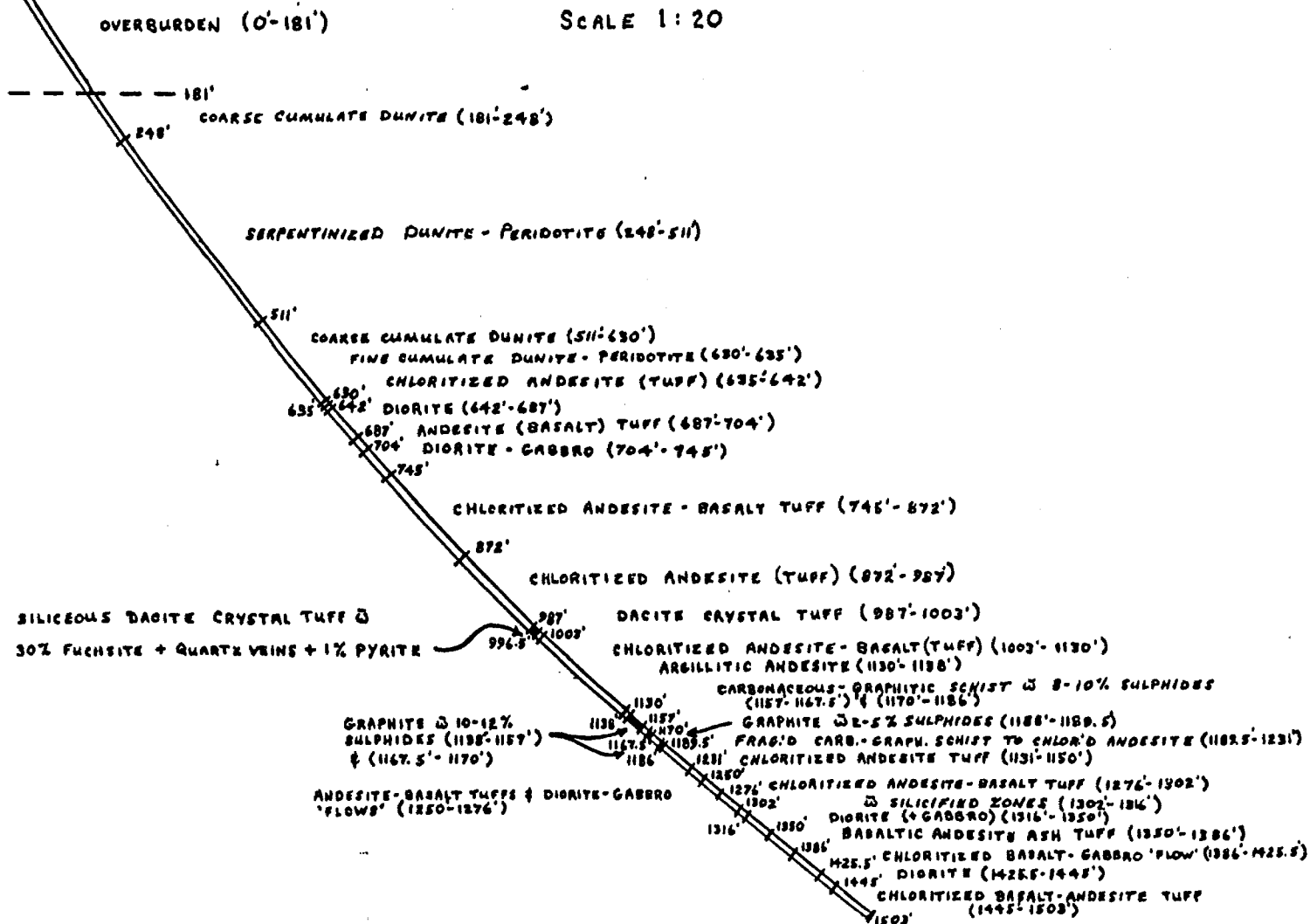
D. D. HOLE JL-82-02

LOCATION: 605' from C.P. #1 of 602701 on 63° bearing
INCLINATION: -55°
AZIMUTH: 0°
TOTAL DEPTH: ~1503'

HORIZONTAL COMPONENT: ~1005'
VERTICAL COMPONENT: ~1105'

SOUTH ← 16+86.5 → NORTH
L-88E SURFACE

SCALE 1:20



MOLE NO. JL 82-03

PROJECT: JIM'S LAKE (A.365)

PAGE NO: 1 OF 15

CASING COLLAR ELEV.: 30' E of 1+105 GROUND ELEV.:

COORDINATES: on L-84E N. E.

DATE STARTED: MARCH 24/82

REF. TO CLAIM CORNER: CS #1: 609706
(510' on 32° bearing)

INCLINATION: -55° BEARING: 0°

DATE FINISHED: MARCH 31/82

SCALE: 1" = 10'

TOTAL DEPTH: 1122'

LOGGED BY: J.W. Newsome

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS: -55° @ 0' -57° @ 285' -55± @ 571' -54° @ 915' -54° @ 1122'	AVE CORE REC'Y/HOLE ~99%	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTI- MATED
	C	A	M												
							DESCRIPTIVE GEOLOGY								
							<u>0'-243'</u> <u>OVERBURDEN</u>			243'					
							<u>243'-265'</u> <u>WEATHERED DIORITE - GABBRO.</u> • blocky core: highly weathered (almost rognolithic) m.-c. grained diorite to gabbro • highly chloritized.				50				
							<u>265'-384'</u> <u>(MELA) DIORITE TO GABBRO.</u> light to medium green, medium to coarse grained ophitic diorite (mela- diorite) to gabbro • mafics chloritized with little to no free silica in groundmass • tr. pyrite (cubes) throughout • non-magnetic, • massive for most part is a weak schistosity produced within chloritized mafics after 344' @ ~50° to core axis. • random fractures from // to ⊥ to core axis throughout • generally hairline to ≤ 2mm wide & infilled with calc. + chl. ± minor quartz. • also random quartz-calcite veins up to 2" wide generally 2-10' apart. • greater amount of calcite infilled fractures within last 8-10' of section near 384' • also minor xenoliths of olivine basalt within this section.			265.7		100			
										275.6		100			
										285.9		100			
							289-291.5' • finer grained is more chl. alt'n & gta-calc. vns (20%) @ ~70°-90° to core axis.			289.0		100		291.5	
										295.3		100			
														Tr. py 29300	

HOLE NO. JL-82-03

PROJECT: JIM'S LAKE (A-365)

PAGE NO: 2 OF 15

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: MARCH 24/82

REF. TO CLAIM CORNER:

COORDINATES: 30' E. of 1+105
on L-84E. N.

E.

DATE FINISHED: MARCH 31/82

SCALE: 1" = 10'

INCLINATION: -55°

BEARING: 0°

TOTAL DEPTH: 1122'

LOGGED BY: J. W. NEWSOME

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE ~ 99 %	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	CHLORITE	CARBONATE	SERICITE												
300'	MODERATE	WEAK	MIN				<p>265-384' (MELA) DIORITE TO GABBRO.</p> <p>• for description see page 1</p>		Tr.	305.1	100	13Q	303'	100	Tr. py 29301
310'							<p>303'-305.5' • 2" gtz.-calc. vn. sub // to c.a. + min. gtz.-calc. vns (random) + tr. py (dissem. cubes)</p>			318'	100		305.5'		
320'										324.8'	100				
330'										334.7'	100				
340'							<p>339'-343.5' • two 2" gtz.-calc. vns @ 60° & 10° to c.a. & ~ 1' apart + min chl. & tr. py.</p>			344.3'	100		339'	100	Tr. py 29302
350'							<p>348'-350' min. gtz. calc. & chl. vns up to 1/2" wide • random orientation & tr. py. - 1% py.</p>			352.5'	100		348'	100	Tr. py 29303
							<p>350.5'-352' • chl. alt'd section & 2" wide gtz.-calc. vn. @ 350.5' • min. tr. py throughout & min. (< 5%) Suckite // to chl. & weak sch'ty @ ~ 50° to c.a.</p>				100		350.5'	100	Tr. py 29304
													352'		

HOLE NO. JL-82-03

CASING COLLAR ELEV.:

COORDINATES: 30' E. of 14105
on L-84E N.

INCLINATION: -55°

GROUND ELEV.:

E.

BEARING: 0°

PROJECT: JIM'S LAKE (A-365)

DATE STARTED: MARCH 24/82

DATE FINISHED: MARCH 31/82

TOTAL DEPTH: 1122'

PAGE NO: 3 OF 15

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY: J. W. NEWSOME

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE ~ 99%	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTIMATED
	CHLORITIC	CARBONATE	SERICITIC	HYDROTHERMAL												
360'	MODERATE	WEAK	MIN	MIN	✓	✓	<p><u>265'-384'</u> (MELA) DIORITE TO GABBRO</p> <p>- for description see page 1</p>		Tr.		100	BQ				
370'											100					
380'							<p>374'-379' - sample typical of section & calc. fract. infill & tr. py.</p> <p><u>384'-425'</u> <u>PIERITE</u></p> <p>- massive fine-medium grained dark green highly chloritized picrite - comp. dominantly of olivine + pyroxene + lesser amounts of f'spar. - minor f'spar phen. clusters for first 3' - relatively fractured (hairline to 5mm wide & random orientation) - generally 2-3" apart & infilled with calcite. - nil to vy. minor trace dissem. py. - minor barren quartz calc. veins cutting core axis from 70-90° (gen. 5-10' apart) & up to 3" wide - non-magnetic, - no schistosity to vy. vy. weak in places @ 40-60° to core axis.</p>		Tr.		100		374'	100	Tr. py.	29305
390'	STRONG	WEAK	NIL	NIL	✓	✓			Tr.		100					
400'											100					
410'											100					

HOLE NO. JL-82-03

CASING COLLAR ELEV.:

COORDINATES: 30' E. of 1+10 S
on L-84 E N. E.

INCLINATION: -55°

GROUND ELEV.:

BEARING: 0°

PROJECT: JIM'S LAKE (A.365)

DATE STARTED: MARCH 24/82

DATE FINISHED: MARCH 31/82

TOTAL DEPTH: 1122'

PAGE NO: 5 OF 15

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY: J. W. NEWSOME

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE RECY / HOLE ~ 99 %	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% RECY. SAMP. INT.	ESTI-MATED
	CHLORITIC	CARBONATE	EPIDOTIC	ACTINOLITE												
480'																
490'								453.5'-625' INTERLAYERED PERIDOTITE & DUNITE CUMULATES - cont. with fract. up to 2" wide, gen 10:20° to core axis. • Structures infilled with magnesite + antigorite. ± minor chl. ± minor talc. • no calcite or quartz. • tr. py. 'smear'd' along fract. & dissem'd throughout.			482.5	100	30			
500'								• 453.5-476 • gradational between peridotite & dunite. 461-465.5' • yellowish-brown rust interstit. & along magnesite fract. infills. • sericite alt'n (?) • also in cumulate grains for 6" from 473.0' to 473.5'			472.2	100				
510'								• 476-511' • dunite section, after 511, dom. peridotite with minor dunite sections, also increase in fract. infills of magnesite & antigorite			502	100				
520'								• 520'-525' • abundant magnesite-antigorite fract. infills			511.5	100				
530'								531.5'-536' • abundant magnesite-antigorite fract. infills			521.9	100		520'	100	Tr. py 29307
											531.5	100		525'		
												100		531.5	100	Tr. py 29308
														536'		

CASING COLLAR ELEV.: 30' E. of 1+105
 COORDINATES: on L-84 E N.

GROUND ELEV.: E.

DATE STARTED: MARCH 24/82

REF. TO CLAIM CORNER:

INCLINATION: -55° BEARING: 0°

DATE FINISHED: MARCH 31/82

SCALE: 1"=10'

TOTAL DEPTH: 1122'

LOGGED BY: J.W. Neufeme

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE ~ 99%	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED			
	ENLARGED	CHLORITIZED	SERPENTINIZED	CRST															
590'							<p>453.5' - 625' INTERLAYERED PERIDOTITE & DUNITE CUMULATE</p> <p>= for description, see pages 4 & 5.</p> <p>• 511'-625' - dominantly all fine to coarse cumulate peridotite - very strongly serpentinized & chloritized & magnetic. • abundant fract. in fills of magnesite-serpentine (antigorite) & talc.</p> <p>• 551'-556' - typical sample section</p> <p>• 561.5'-566' - abundant very large crystals of serpentine (antigorite) - up to 4" long & random orientation - resembles a 'Van Gogh' painting technique. + abundant talc all'n.</p> <p>• 578'-594' fine grained highly schistose (70° to // to core axis) & more chlorite all'n - possibly closer to picrite - moderately magnetic</p> <p>598'-590' + 591.5'-593' abun. grs. magnesite vms up to 6" wide X-cutting core axis = vy. min. tr. py</p>	~ 99%	Nil to Tr.	590.4	BQ								
550'											100			551'	100	29309			
											100			556'					
510'											100								
											100								
570'											100								
											100								
580'											100								
											100								
590'											100			598'	100	Tr. py 29310			
											100			593'					

MOLE NO. JL-82-03.

PROJECT: Jim's LAKE (A.365)

PAGE NO: 7 OF 15

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: MARCH 24/82

REF. TO CLAIM CORNER:

COORDINATES: 30' E. of 1+105 N.
on L-84E E.

DATE FINISHED: MARCH 31/82

SCALE: 1" = 10'

INCLINATION: -55°

BEARING: 0°

TOTAL DEPTH: 1122'

LOGGED BY: J.W. NEWSOME

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE ~99%	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT.	ESTI-MATED
	CARBONATE	SILICATE	SULFIDE	OXIDE												
600'	MODERATE	WEAK TO MODERATE	STRONG	TRACES OF PYR.	✓		<p><u>453.5'-625'</u> <u>INTERLAYED PERIDOTITE & DUNITE (MINOR) CUMULATE</u></p> <p>• for description see pages 4, 5 & 6.</p>		NIL to Tr.	600'	100	80				
610'					✓					610'	100					
620'					✓		<p><u>625'-645'</u> <u>PERIDOTITE TO PICRITE.</u></p> <p>• f. grained dark green moderately schistose (30°-60° to c.a.), highly chloritized & serpentinized peridotite grading to picrite(?). very gradational contacts. moderately fract'd with infills of magnesite + serpentine (antigorite). • vy. min. trace dissem. py.</p> <p>• 627-632' • typical sample section of rock type.</p>				620'	100		627		
630'					✓					630'	100			100		
640'					✓		<p><u>645'-679'</u> <u>PERIDOTITE</u></p> <p>• highly serpentinized; moderately to strongly chloritized f.g. massive to fine to coarse cumulate peridotite. • varies from cumulate texture to massive hypidiomorphic granular. • vy. weak schistosity (~30° to c.a.) produced in vy. minor occurrences. • moderately fract'd (2-6" spat) gen. hairline - 2mm wide. • random orientation. • infilled w magnesite. • serpentine (antigorite) & minor talc. • Nil to trace dissem. py.</p> <p>• moderately to strongly magnetic.</p>				632'	100		632		
650'					✓					642'	100					
					✓					649'	100					

29311

HOLE NO. JL-82-03

CASING COLLAR ELEV.: 30' E. of 1+10 S
 COORDINATES: on L-84E N.

GROUND ELEV.: E.

INCLINATION: -55°

BEARING: 0°

DATE STARTED: MARCH 24/82

DATE FINISHED: MARCH 31/82

TOTAL DEPTH: 1122'

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY: J. W. NEWSOME

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE ~ 99 %	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	SP-1	SP-2	SP-3	SP-4												
660'							<u>645'-679' PERIDOTITE</u> • for description see page 7.			Nil to 1%	669.5'	100	B/D			
670'												100				
680'							<u>679'-705' SERPENTINITE (DUNITE?)</u> • very dark green - purplish black serpentinite • remnant cumulate texture in places • may originally have been dunite. • highly fractured ($\pm 1''$ apart) with random orientation • generally hairline to $\le 2\text{mm}$ wide, but up to 2" & filled with magnesite + serpentine (antigorite) & talc. • strongly magnetic • tr. - 1% dissemin. py throughout & 'smeared' along fractures. • sharp contact @ 679, but gradational @ 705' 694.5-699.5 ; 704-709 • sample intervals representative of unit.			Tr. to 1%	679.5'	100				
690'											689'	100				
700'							<u>705'-741' PERIDOTITE</u> • as previously described on page 7.				698.9'	100		694.5'	100	Tr-1% Py 29312
710'										Nil to Tr.	708.7'	100		704'	100	Tr-1% Py 29313
											718.4'	100		709'		

HOLE NO. JL-82-03

CASING COLLAR ELEV.:

COORDINATES: 30° E. of H105
on L-84 E N.

INCLINATION: -55°

GROUND ELEV.:

E.

BEARING: 0°

PROJECT: JIM'S LAKE (A-365)

DATE STARTED: MARCH 24/82

DATE FINISHED: MARCH 31/82

TOTAL DEPTH: 1122'

PAGE NO: 10 OF 15

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY: J.W. NEWSOME

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE ~ 99%	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED		
	CHLORITE	CARBONATE	SERPENTINIZATION	PERIDOTITE														
780'	STRONG	MODERATE	WEAK TO MODERATE	MODERATE TO GOOD		N-Z		741'-815' HIGHLY ALTERED MAFIC-ULTRAMAFIC (PIERITE-BASALT TUFF?) - for description, see page 9		NIL		100	8Q					
790'								800'-805' Sample representative of rock type.			787.9'	100						
800'											797.3'	100						
								815'-852' HIGHLY ALTERED ULTRAMAFIC (PIERITE-PERIDOTITE?) - gradational contacts - similar to above - in part resembles a crystal tuff, other places possible remnant cumulate texture - highly chloritized & serpentinized with a light green mineral (chlorite or antigorite?) - definitely not Puchsite. - very abundant throughout. - weakly to moderately magnetic with very fine magnetite crystals dissem. throughout - highly fract'd gen. // to sub // to core axis (same orientation as weak schistosity - changes to ~ 45° to core axis by 850') - hairline to 2 mm wide, but up to 1" & infilled with magnesite + antigorite ± talc & chl. - Nil to tr. dissem. py.				807.1'	100			800' 805'	100	29315
810'											817'	100						
820'											NIL to Tr.	100						
830'											826.8'	100						
								831'-835.5' } Sample intervals representative with abundant fract. infills				100						
								838.5'-843.5' }				100				Tr. py 29316		
								848'-853' }				100				29317		

HOLE NO. JL-82-03

PROJECT: JIM'S LAKE (A-365)

PAGE NO: 11 OF 15

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: MARCH 24/82

REF. TO CLAIM CORNER:

COORDINATES: 30° E. of 1410 S.

E.

DATE FINISHED: MARCH 31/82

SCALE: 1" = 10'

WCLINATION: -55°

BEARING: 0°

TOTAL DEPTH: 1122'

LOGGED BY: J.W. Newcome

SECTION	ALTERATION				MINERAL	GEOLOGY	COMMENTS:	AVE CORE RECY / HOLE ~ 99%	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% RECY. SAMP INT.	ESTI-MATED
	CHLORITE	CARBONATE	SERPENTININE	SOIL											
840'	STARTS	MODERATE TO STRONG	STRONG	QUICK TO SOIL			815-852' <u>HIGHLY ALTERED ULTRAMAFIC (PIERITE-PERIDOTITE?)</u> • for description, see page 10.		NIL to Tr.	846.5	100	BQ	843.5	100	Tr. py. 29317
850'	MARK						852-880' <u>SERPENTINITE (DUNITE?)</u> very dark green to purplish black f. grained to fine (remnant) cumulate serpentinite (possibly originally a dunite) • moderately magnetic. • highly fractured (random from 90° to // to core axis) • gen. hairline to 2 mm wide (up to 1") ± in filled with magnesite + serpentine (antigorite) ± talc. • tr-1% dissem. py. throughout, more concentrated along fractures.		Tr. to 1'6	855.3	100		848'	100	29318
860'							867-872' • sample representative of rock type.			866.2	100		867'	100	Tr-12 M 29319
870'							880-918' <u>PERIDOTITE.</u> • highly serpent'd ± moderately chl'd. • f.g. hypidiomorphic granular to cumulate texture. • varies between the two. • moderately to strongly magnetic ± fine grained dissem. magnetite-throughout. • moderately fractured. random 90° to // to core axis • gen. hairline • 2 mm wide but up to 2" ± in filled with magnesite + serpentine (antigorite) ± chl. ± talc. • tr. py. dissem. throughout. • gradational contacts above & below.			876'	100		872'	100	
880'							910-915' • sample representative of rock type.		NIL to Tr.	885.9	100			100	
890'										895.7	100			100	

HOLE NO. JL-82-03

PROJECT: JIM'S LAKE (A-365)

PAGE NO: 12 OF 15

CASING COLLAR ELEV.: 30'E. of 1405
 COORDINATES: on L-64E N.

GROUND ELEV.: E.

DATE STARTED: MARCH 24/82

REF. TO CLAIM CORNER:

INCLINATION: -5.5" BEARING: 0°

DATE FINISHED: MARCH 31/82

SCALE: 1" = 10'

TOTAL DEPTH: 1122'

LOGGED BY: J. W. Newsome

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE ~ 99%	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED	
	CHLORITE	CARBONATE	SERPENTINE	PLAT													
900'	MODERATE	MODERATE	STRONG	MODERATE	✓	SP	<p><u>880'-918' PERIDOTITE</u> see page 11 for description</p>			Nil Tr.	100	BD					
910'											100		910'	100	Tr. py	29320	
920'							<p><u>918'-1045' SERPENTINIZED DUNITE CUMULATE.</u> • dark green-purplish black highly serpentinized coarse (to minor fine) cumulate dunite • gradational contacts above & below for 5'-10' • strongly magnetic with magnetite & tr. 1% py. interstitial between olivine cumulate grains • mafics chloritized • dm. serp'd olivine • generally massive with vy. vy. weak schistosity (~50° to c.a) produced in restricted sections. • moderately fractured • hairline to 2 mm wide, with minor fract's $\approx \frac{1}{4}$" • random & X-cutting from // to 90° to c.a. • vary from $< \frac{1}{4}$" apart to 2", but gen. 1"-3" apart. • infilled with magnesite + serpentine (antigorite) • (possibly brucite) & talc.</p>			Tr. to 1%	100		915'	100			
930'											100		925'	100			
940'											100		935'	100	Tr.-17 py	29321	
											100		940'	100			
950'							<p>946.5-956 • olivine cumulate grains replaced by light green coloured alt'r mineral (similar colour to Puchsite) • either chlorite or serpentine • interstitial infill of chld mafics + magnetite + tr. py.</p>				100		949'	100	Tr.-12 py	29322	
											100		954'	100	Tr.-12 py	29323	

HOLE NO. JL-82-03

CASING COLLAR ELEV.: 30 E. of 1405

COORDINATES: on L-84E N.

INCLINATION: -55°

GROUND ELEV.: E.

BEARING: 0°

PROJECT: JIM'S LAKE (A.365)

DATE STARTED: MARCH 24/82

DATE FINISHED: MARCH 31/82

TOTAL DEPTH: 1122'

PAGE NO: 13 OF 15

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY: J.W. Newsome

COMMENTS:

AVE CORE REC'Y / HOLE

~ 99%

SULPHIDES

DRILLING INTERVAL

% CORE RECOVERED

CORE SIZE

SAMPLE INTERVAL

% REC'Y SAMP. INT.

ESTI-MATED

DESCRIPTIVE GEOLOGY

918'-1045' SERPENTINIZED DUNITE CUMULATE

For description see page 12.

988'-993' sample interval typical of section

1007.5'-1012.5' sample interval typical of section

Tr to 1%

966'

100

8Q

974.5'

100

982.5'

100

991.5'

100

988'

993'

Tr - 1% Py

29324

1004'

100

1012.8'

100

1007.5'

1012.5'

Tr - 1% Py

29325

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY
	CLAY	CHLORITE	QUARTZ	HYDROXIDE			
960'	Moderate	Moderate	Trace	Trace			
970'							
980'							
990'							
1000'							
1010'							

HOLE NO. JL-82-03

PROJECT: JIM'S LAKE (A-365)

PAGE NO: 14 OF 15

CASING COLLAR ELEV. 30' E of 14105

GROUND ELEV.:

DATE STARTED: MARCH 24/82

REF. TO CLAIM CORNER:

COORDINATES: on L-146 N. E.

DATE FINISHED: MARCH 31/82

SCALE: 1" = 10'

INCLINATION: -55°

BEARING:

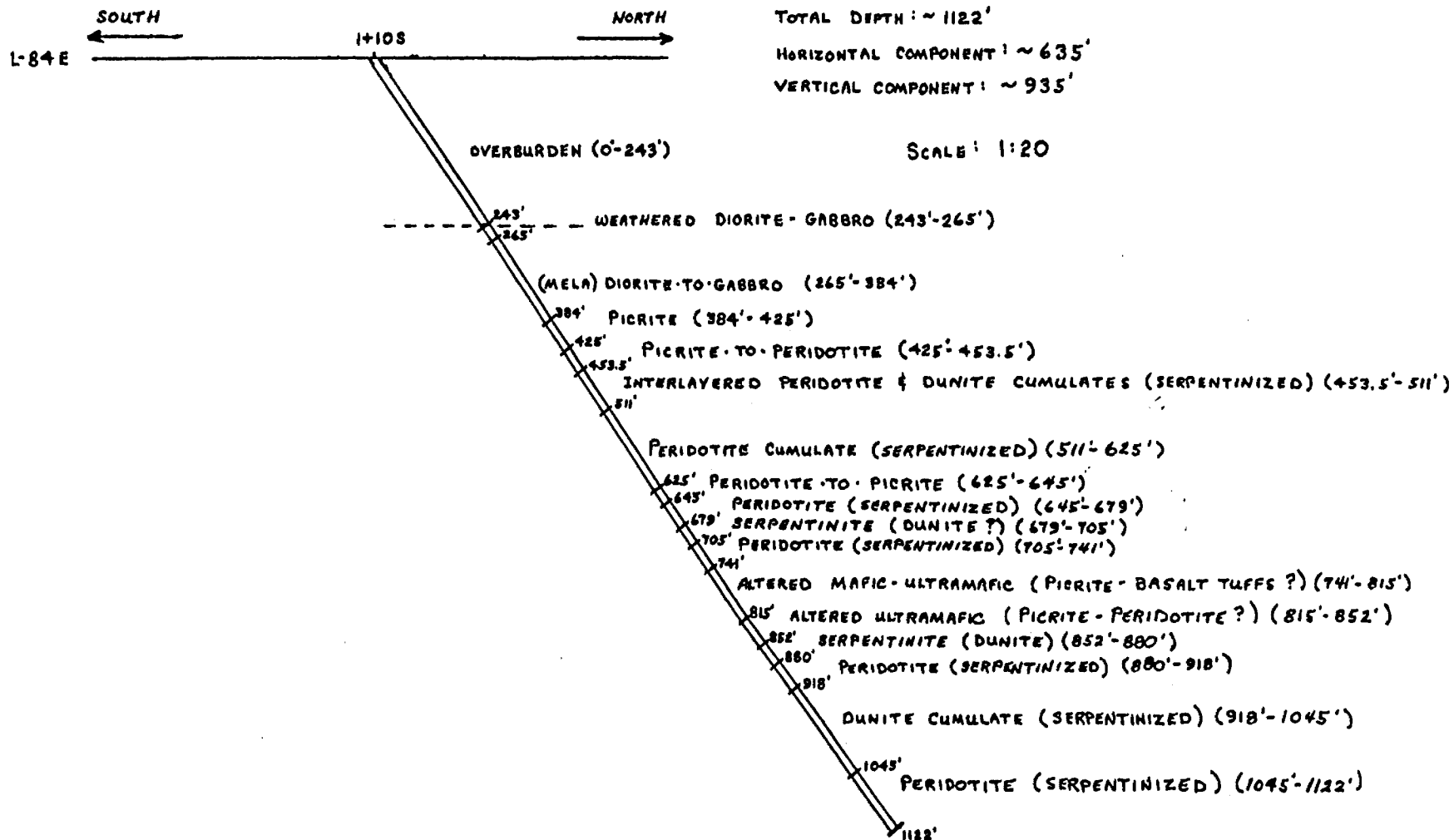
TOTAL DEPTH: 1122'

LOGGED BY: J.W. Newsome

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE ~ 99 %	% SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
	CHLORITIC	CARBONATE	SERPENTINIZED	HYDRATED												
1020'	MODERATE	MODERATE	STRONG	MODERATE			<p>918'-1045' <u>SERPENTINIZED DUNITE CUMULATE</u></p> <p>- for description see page 12</p>			Tr. to 1%	1023.7	100	BR			
1030'							<p>1032'-1037' abundant antigorite - magnesite - talc veining.</p>				1033.5	100		1032'	100	Tr py 29326
1040'							<p>1045'-1122' <u>SERPENTIZED PERIDOTITE</u></p> <p>• medium to dark green, fine to coarse cumulate to hypidiomorphic (granular) serpentized peridotite - moderately magnetic - very minor & weak schistosity in places gen. ~ 80° to core axis. • moderately fractured (<1-6" apart & hairline to gen ≤ 2 mm wide) - randomly oriented from 11 to 90° to core axis, & infilled with antigorite + magnesite + talc + other serpentine minerals. • tr-1% py. dissem. throughout, but more concentrated along fracture planes.</p>			Tr. to 1%	1043.4	100		1043.5	100	Tr-1% py 29327
1050'											1053.5	100		1051'	100	
1060'											1063.5	100		1055'	100	Tr. py. 29328
1070'											1073.5	100		1060'		

D.D HOLE JL-82-03

LOCATION: 510' on 32° bearing from #1 claim post of 609706
INCLINATION: -55°
AZIMUTH: 0°
TOTAL DEPTH: ~1122'
HORIZONTAL COMPONENT: ~635'
VERTICAL COMPONENT: ~935'



HOLE NO. JL-82-04

PROJECT: JIM'S LAKE (A 365)

PAGE NO: 1 OF 4

CASING COLLAR ELEV.: 11+50 S

GROUND ELEV.: 2-88 E

DATE STARTED: APRIL 1/82

REF. TO CLAIM CORNER:

COORDINATES 11+50 S
2-88 E

N. E.

DATE FINISHED: APRIL 7/82

SCALE: 1" = 10'

INCLINATION -55°

BEARING: 0°

TOTAL DEPTH: 558'

LOGGED BY: J. W. NEWSOME

SECTION	ALTERATION				MINERAL	GEOLOGY	COMMENTS:	AVE CORE RECY / HOLE ~100%	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% RECY. SAMP. INT.	ESTI-MATED	
	CHLORITE	CARBONATE	SERICITE	SILICIFICATION												FRACTURING
							-55° @ 0' -55° @									
							DESCRIPTIVE GEOLOGY									
							0'-361' OVERBURDEN									
							361'-378' ANDESITE CRYSTAL & ASH TUFF									
							361'-365' • andesite crystal tuff • gtr. calc. vns ⊥ to core axis & 4-6" wide for first foot & 2" v. @ 363' w tr. cubic pyrite & tr. fuchsite • first in evidence @ 363', but minorly pervasive from 363'-365' w tr. cubic pyrite • abun. chl. alt'n • minor sericite • calcite alt'n • other v. minor gtr. calc. vns ≤ 1/8" wide • strong schistosity @ ~50° to c.a.									
							365'-378' • andesite ash tuff • strongly ch'd w weak ser. alt'n & mod. calc. alt'n in groundmass & in vns. • minor random calc. & gtr. vns • gen. hairline, but up to 1/2" wide • 6"-2" apart (gen. ~1-2") • wh. schty @ ~50° to c.a. • tr. py. throughout • no fuchsite • gradational contact from 377'-379'									
							378'-401' DACITE & SILICIFIED ANDESITE ASH TO CRYSTAL TUFF									
							• gradational contacts • grey-green, highly siliceous dacite or silicified andesite ash to minor crystal tuff. • weak to moderate schistosity from 50°-40° to core axis (approaches 40° down section) • minor amounts (<10%) fuchsite // schistosity throughout along w 3-5% dissem. cubic to blebs pyrite • amount of py. approaches 10% in places. • cut by gtr.-calc. vns // to cub // to X-cutting core axis • random • range from hairline to 1" wide & gen 6"-2" apart (gen. >1" apart) • more fuchsite along margins of veins & along with pyrite. • tr. galena within gtr. vns as well.									
							• mod. sericite alt'n, becoming fairly strong in places • gtr vns are grayish-white • brecciated zone from 391'-392' & >10% py.									
							• last occurrence of fuchsite @ 401' vns' d = gtr. calc. vns.									
370	STROZS	KOUCHEHA	361	2-1					Tr-12			BQ	361'	100	Tr-1% Py	39331
											100		363'	100	"	29332
													365.5'	100	"	29333
													368'	100	"	29334
										370.8'			370.5'	100	"	29335
													373'	100	"	29336
													374.5'	100	"	29337
													378'	100	"	29338
350	STROZS	KOUCHEHA							3-5%	380.4'			380.5'	100	3-5% Py	29339
													383'	100	"	29340
													385.5'	100	"	29341
													388'	100	"	29342
													390.5'	100	"	29343
									10%	390.4'			393'	100	10% Py	29344
									3-5%				395.5'	100	3-5% Py	29345
													398'	100	"	29346
													400.5'	100	"	29347
400	STROZS	KOUCHEHA							1-3%	400.3'			403'	100	1-3% Py	29348
													405.5'	100	12% Py	29349
									17%				408'	100	Tr-1% Py	29350
									Tr-12				410'	100	"	29350

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE ~ 100%	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT	ESTI-MATED
	CHLORITIC	CARBONATE	SULFIDATION	SILICIFICATION												
410'	GRAND	MODERATE	MODERATE	MODERATE	1-2	1-2	<p><u>401'-432' ANDESITE (TO BASALT) TUFF</u></p> <p>• gradational contacts • dark green fine crystal tuff • highly chloritized & calcareous andesite • grades to andesite-to-basalt ash tuff down section • becomes progressively less calcareous • schistosity varies from strong to weak from ~20° to c.c. @ 405' to ~50° to core axis by 425'</p> <p>• minor random fractures from sub// to ⊥ to core axis • hairline → ± 2mm wide & 6"± apart • infilled with calcite + hematite staining ± very minor gtz. (most gtz. v.ing restricted between 402.5'-405') • tr. to 1% dissem. cubic pyrite throughout ± minor wisps along fractures.</p>	Tr-1%	410'	100	BQ	410'-414'	100	Tr-1% py	29351	
420'	STRONG	STRONG	STRONG	STRONG	1-2	1-2	<p><u>432'-443' DIORITE TO GABBRO</u></p> <p>• gradational contacts • mod. grained ophitic diorite to gabbro cut by minor fracture in fillings of calcite + hematite ± very minor serpentine (antigorite) - tr. dissem. py. cubes throughout</p> <p>433'-437.5' • sample interval typical of section.</p>	Tr.	420'	100		433'-437.5'	100	Tr. py	29352	
430'	MODERATE	MODERATE	MODERATE	MODERATE	1-2	1-2	<p><u>443'-530' ANDESITE TO BASALT (TUFF)</u></p> <p>• dark green highly chloritized andesite to basalt ash-to-minor-crystal tuff • weak to moderate schistosity @ ~50° to core axis (ave) • minor sectors appear intrusive to ophitic texture. • minor fract. sub// to cross-cutting schistosity. • fract. gen. hairline → 5mm wide & 6"± apart • infilled with calcite ± hematite stain ± very minor quartz. • tr. dissem. py. cubes throughout.</p> <p>• gradational contacts with intrusive-looking sections.</p>		429.8'	100						
440'	MODERATE	MODERATE	MODERATE	MODERATE	1-2	1-2			429.7'	100						
450'	MODERATE	MODERATE	MODERATE	MODERATE	1-2	1-2			449.5'	100						
460'	MODERATE	MODERATE	MODERATE	MODERATE	1-2	1-2			452.3'	100						
	MODERATE	MODERATE	MODERATE	MODERATE	1-2	1-2			462.2'	100						

HOLE NO: JL-82-04

PROJECT: JIM'S LAKE (A-365)

PAGE NO: 3 OF 4

CASING COLLAR ELEV.: N+505 on L-88E

GROUND ELEV.: N.

DATE STARTED: APRIL 1/82

REF. TO CLAIM CORNER:

COORDINATES N. E.

DATE FINISHED: APRIL 7/82

SCALE: 1" = 10'

INCLINATION: -55°

BEARING: 0°

TOTAL DEPTH: 558'

LOGGED BY: J.W. NEWSOME

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE ~ 100%	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED	
	CHLORITIZATION	OXIDATION	SERICITIZATION	SILICIFICATION													
470'								<p>443'-530' <u>ANDESITE TO BASALT (TUFF)</u></p> <p>• For description see page 2.</p>		Tr.		100	60				
480'											479'	100					
490'											489.9'	100					
500'											498.7'	100					
510'											508.6'	100					
520'								<p>518.5'-520' - abun. gte. (bull) - calc. vns up to 6" wide X-cutting core axis @ ~ 80°</p>			518.4'	100		518.5' 520'	100	Tr. M	29353
								<p>529'-530' - 1/2" gte. vn. w 5-10% dissemin. (cubic) pyrite within tuft along vein margins.</p>			528.2'	100		529'			

HOLE NO.: JL-182-04

PROJECT: JIM'S LAKE (A-365)

PAGE NO: 4 OF 4

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED: APRIL 1/82

REF. TO CLAIM CORNER:

COORDINATES: 117503 N L-88 E

E.

DATE FINISHED: APRIL 7/82

SCALE: 1" = 10'

INCLINATION: -55°

BEARING: 0°

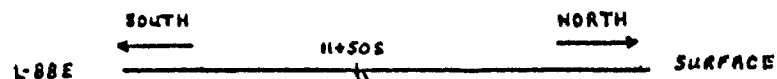
TOTAL DEPTH: 558'

LOGGED BY: J. W. NEWSOME

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y / HOLE ~ 100%	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTI-MATED
	CHLORITE	CARBONATE	SERICITE	SMECTITE												
430'																
540'								<p><u>530'-558'</u> <u>ANDESITE ASH TUFF</u></p> <p>highly chloritized dark-medium green fine grained andesite ash tuff. schistose @ ~50° to core axis. minor fractures in filled with calcite (gen. hairline - 2mm wide & 6"-2' apart) - tr. dissem. py. (embas) throughout.</p>								
550'								<p><u>558'</u> <u>END OF HOLE</u></p> <p>24 samples split for assay.</p>								

D. McIVOR
FEB. 1, 83

D.D. Hole JL-82-04



LOCATION:

INCLINATION: -55°

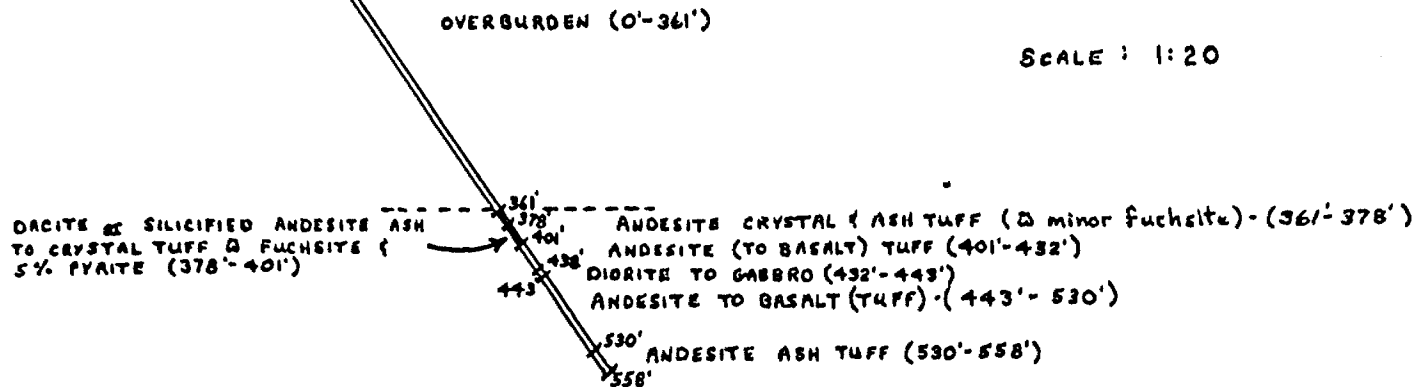
AZIMUTH: 0°

TOTAL DEPTH: 558'

HORIZONTAL COMPONENT: 320'

VERTICAL COMPONENT: 457'

SCALE: 1:20



609716

609717

610458

609711

609712

610457

JL - 03

610456

609706

609707

JL - 04

JL - 02

610455

609701

609702

JL - 01

565153

565154

UTAH MINES LTD.

1" : 400'

Marathon Lake




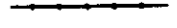



MOODY

DISTRICT OF COCHRANE

LARDER LAKE MINING DIVISION


SCALE: 1-INCH=40 CHAINS

LEGEND

- PATENTED LAND Ⓟ
- CROWN LAND SALE C.S.
- LEASES Ⓛ
- LOCATED LAND Loc.
- LICENSE OF OCCUPATION L.O.
- MINING RIGHTS ONLY M.R.O.
- SURFACE RIGHTS ONLY S.R.O.
- ROADS 
- IMPROVED ROADS 
- KING'S HIGHWAYS 
- RAILWAYS 
- POWER LINES 
- MARSH OR MUSKEG 
- MINES 
- CANCELLED X

NOTES

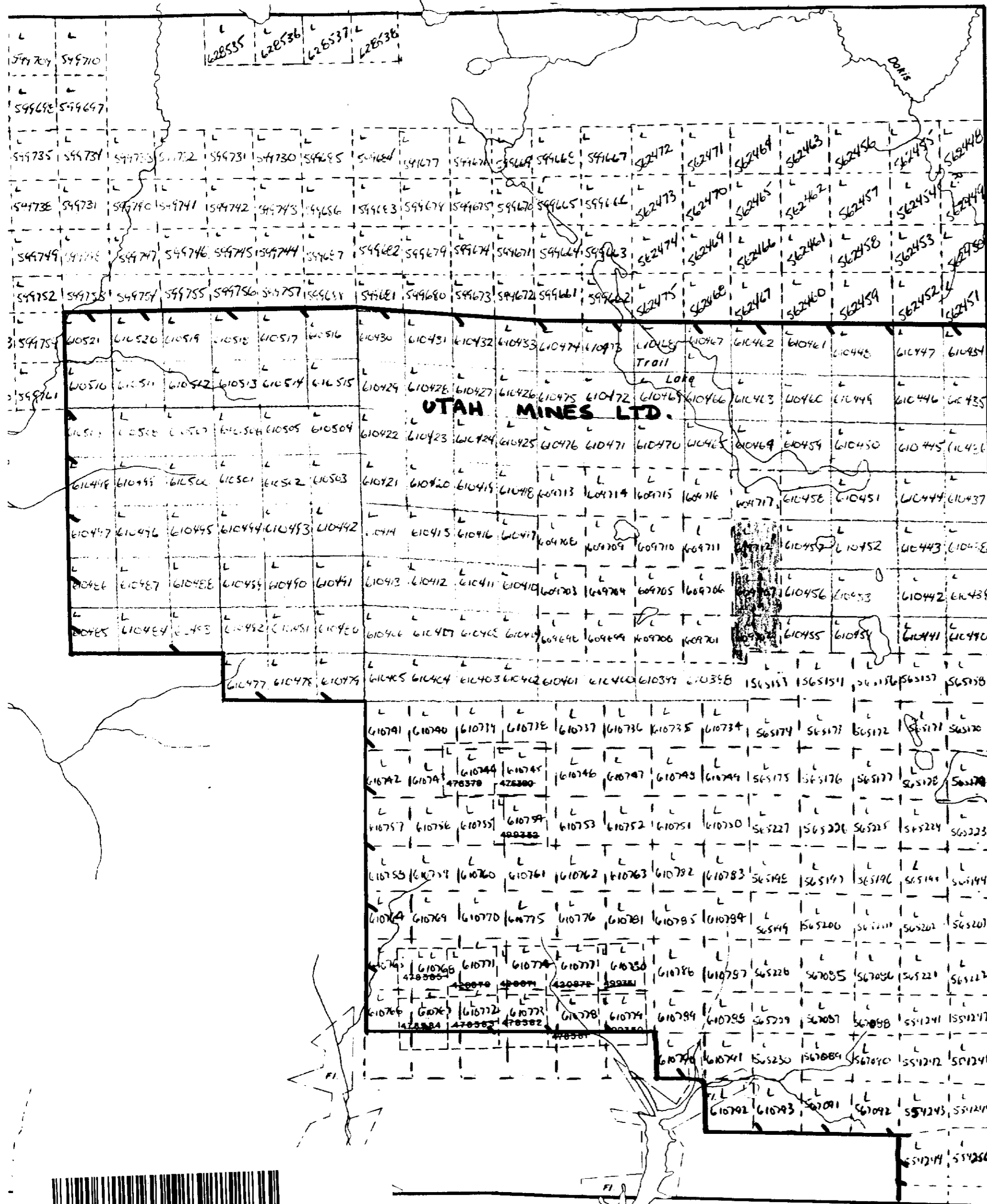
400' surface rights reservation along the shores of all lakes and rivers.

L.O. 8674 shown thus:  covers land below contour 826' and 881'.

Subdivision of this township in lots and concessions was annulled May 29, 1963.

SEP 29 1982

M-1832



GALNA TP. M.480

MOODY TWP.

