

DIAMOND DR



42A16SW0065 19 MOODY

010

TOWNSHIP: Moody

REPORT No.: 19

WORK PERFORMED BY: Utah Mines Ltd.

<u>CLAIM No.</u>	<u>HOLE No.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
L 610456	JL-84-F3	863	Nov/84	(1)

NOTES: (1) #19-85

HOLE NO. JL- B4- F3

PROJECT: JIM'S LAKE

PAGE NO: 1 OF 11

CASING COLLAR ELEV.: 3' above ground GROUND ELEV.:

DATE STARTED: NOVEMBER 28, 1984

REF. TO CLAIM CORNER:

COORDINATES: 1104 E. 13+00 S N. E.

DATE FINISHED: DECEMBER 3, 1984

SCALE: 1" = 10'

INCLINATION: -55° BEARING: 360°

TOTAL DEPTH: 863'

LOGGED BY: D. McIVOR

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS: DIP TESTS @ 400'; 56° (COR) @ 600'; 52° (COR) PLASTIC PIPE TO 280'	AVE CORE RECY / HOLE 100% FROM 284'	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% RECY. SAMP. INT.	ESTI-MATED			
	CHLORITE	SERICITE	CARBONATE	OTHER															
240'									MAG. SUB. (LOG 30 SCALE) 0.5 1.0 5 10 50 100										
250'						OVERBURDEN	<p>0-260' OVERBURDEN</p> <p>260-284' DRILLED & TRIGONE, NO CORE RECOVERY</p> <p>284-303' INTENSELY ALTERED, CARBONATIZED, SERICITIZED DACITE TUFF</p> <p>light gray to greenish beige, relatively hard, siliceous vfg altered dacite tuff, or silicified more mafic tuff</p> <p>bleached appearing, & strong pervasive carb alt (calc or dol., wk reac^o HCl) (to 50% of rock in places), f mod. perv. sericite alt</p> <p>granular, sugary, hf in places (appears recrystallized), & carb matrix to v. small qtz - f spar blebs/grains (crystal tuff)</p> <p>weak (to mod in places) foliation @ 40° to c.a., (bedding & wk schistosity)</p> <p>wkly fractured, pred. to wk fol, although other orientations present, & pred. qtz carb (calc & dol?), minor chl. ser. fr. frag. fill.</p> <p>few qtz-calc vns sub fol. to 1", av. 1/4-1/2", often irregular.</p> <p>OVERALL SULPHIDE CONTENT: < 0.5% Py, as small disc cubes & min. ass. & qc veining, & as frac. fill.</p> <p>1.5% vfg light pinkish gray to black sub-metallic min. (sph? hem?), occurring as disc blebs to 1/8" throughout unit, usually along fol. (resemble tuff frags) & in close ass. & Py (appears to replace Py in places)</p>												
260'						NO RECOVERY	<p>@ 285. 1" carb. vein @ 30° to c.a., & 30% dk green chl. & 1% diss Py (often strongly bent) from 285-289, locally sub-met. gray min. (sph? hem?) to 2% as disc blebs to 1/4" along fol.;</p> <p>from 289-291, bedding fol. locally v. well developed, thinly bd. (av. 1/8") at 35-40° to c.a., locally v. siliceous, & num. (to 20%) thin (to 1/8") qtz seams bd., a few cutting vns to 1/2", locally sub-met. min to 2%, Py 1% as cubes to 1/16" & vfg diss min.</p> <p>from 291-291.5, qtz vns to 2" sub fol. to 25% of rock, & minor ass carb & 1% diss Py, 1% diss sub-met. min, locally host is mod. sericitized (ser. v. bright light green)</p> <p>@ 291.5, xcutting frac. @ 20° to c.a., & chl frac fill & 1/2" chl-hem carb alt. halo from 291.5-293, a few chl-hem filled frac</p> <p>from 293-293, locally appears slightly coarser, & larger (to 1/8") carb. (alt.) blebs, ending 'sheared diorite' appearance to rock.</p> <p>@ 299.5, 1/2" chl-hem seam @ 40° to c.a.</p> <p>from 299-296, v. siliceous gray (silicified) & mod. fracturing, & ser-chl-hem-Py frac fill, ser. locally v. bright light green</p> <p>from 296-297, qtz vns to 5" & 80% of rock, & a few thin, small (< 1/32") acicular tourmaline xstls? minor diss Py locally host rock is v. granular appearing, & sugary qtz blebs in carb groundmass.</p> <p>from 297-303, fine diss Py cubes to 1/32" & 2%, & 4-5% diss. gray sub-met. min blebs along fol. to 1/8" - lends SPOTTED appearance to rock</p> <p>N.B. unit may be an intensely altered dioritic rock, gradational contact & underlying unit, which becomes more chloritic.</p>												
270'																			
280'																			
290'	N	M	V				carb vns wk met gray min. locally thinly bd. ALT. DACITE TUFF qtz vning large carb blebs locally strongly silicified qtz vning appear spotted		0.1										
							<p>303-310' SHEARED, ALTERED DIORITIC ROCK</p> <p>pred. a fg, med. green rock, & mg to ca phases that appear v. fine, but txt is v. poorly dev., overprinted by alt. & fracturing</p> <p>composed of (alt.) 60% white to beige anhedral blebs to 1/8-1/4" of hard carb. (dol?) (pseudomorphs of fsp?) & 40% to chloritic groundmass</p> <p>moderately schistose, @ 40° to c.a., as deformed by elong. carb blebs</p> <p>numerous 1"-3" white 'bleached' zones of intense carb. alt. & minor qtz, @ rd. or. contains a few small (1/8") bluish white qtz blebs, & a few thin qtz seams fol.</p> <p>wkly fractured, pred. fol. & chl-ser-hem. frac fill</p> <p>SULPHIDE CONTENT: 1% vfg diss Py (often cubes to 1/16"), & 2% (to 5% in places) dk gray to black sub-met. min. (sph? hem?)</p> <p>from 303-309.5, mg appearing</p> <p>@ 304.5, 2" qtz-miner carb. vns w/ly xcut fol. @ 50° to c.a.</p>												
									0.1										

HOLE NO. JL-84-F3

CASING COLLAR ELEV.: 3' above ground GROUND ELEV.:

COORDINATES: L104E, 13+00S N. E.

INCLINATION: -55° BEARING: 360°

PROJECT: JIM'S LAKE

DATE STARTED: NOV 28/84

DATE FINISHED: DEC. 2/84

TOTAL DEPTH: 863'

PAGE NO: 2 OF 11

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY: D. McIVOR

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
	CHLORITE	SERICITE	CARBONATE	OTHER												
300	MODERATE	MODERATE					<p><u>ALT. DACITE TUFF</u></p> <p>302-310 CONT.</p> <p>From 306.5-307.5; unit similar to 288-305; v. bleached appearing light beige. Fr. strongly carb. mod. sericitized, w/dly fol @ 40° to c.a. indistinct contacts. contains about 1/8" blue qtz blebs, a few carb blebs appear pseudomorphic of fsp. appears spotted. 2-3% small 1/8" sub-met min blebs in fol. - contains 10% Py</p> <p>From 307.5-308; locally v. sp. to beige, euhedral (with) carb pseudomorphs. (of fsp) to 1/4", 5% blue qtz blebs, 2-5% black sub-met min. in green chloritic groundmass. appears f. gabbroic</p> <p>From 308-310; fr. numerous bleached carb zones as halos around thin qtz seams & fracs, locally thin seams of gray sub-met. min (sph/hem?) in fol. to 5%</p>	0.1	27%		100%	300	100%			
310	STRONG	STRONG					<p>bleached carb-qtz intensely silic.</p> <p><u>ALT. INT. TUFF</u></p> <p>black min. to 10%</p> <p>locally shly chl</p> <p>dk gray sub-met min blebs to 10%</p> <p>qtz in 2 Py margins</p> <p>qtz vns</p> <p><u>CARB-SER ALT. DACITE CRUSTAL TUFF</u></p> <p>vfg. granular siliceous hem-chl halo on fracs</p>	0.1	17%	305	100%	310	100%			
320	FEW	STRONG					<p>mod. to v. thin bedded (beds av. 1/4" bd @ 40° to c.a.). 2 alternating beds/bands of dk green chlorite (40%) & white to beige vfg qtz & carb (pred. calc)</p> <p>(40%) - vfg. granular appearing in places</p> <p>some pinching & swelling of qtz-carb beds/bands - resemble lapilli tuff frags in places</p> <p>moderate to strongly fractured @ no preferred orientation. 2 qtz, carb, chl, Py, hem frac. fill</p> <p>bleached appearing intensely alt. (carb & silica) zones in areas of strong fracturing</p> <p>SULPHIDE CONTENT: 27% Py, 2% diss. cubes to 1/16" & thin seams ass. 2 qc bands & 5% pinkish gray to black sub-met min (sph/hem?) as 1/4" blebs & stringers in fol.</p>	0.1	27%	315	100%	320	100%			
330	MODERATE	MODERATE					<p>From 310-311; v. bleached, pred. by beige carb (d.d?) & qtz bands in bd. 2 minor bright light green sericite & locally 8% sub-met min. & 3% Py (in association), locally strongly fractured, 2 bleaching as halos - a few 1/4" cutting qtz vns</p> <p>From 311.5-312.5; locally mod. fractured @ rnd or. 2 chl, Py frac fill? Most locally is intensely silicified to qtz, 2 minor oak & bright light green sericite</p> <p>10% Py as diss blebs (cubic & amorph) to 1/16", 1-2% black sub-met-min. & a few small (1/32") black acicular ror.? xshals</p> <p>From 312.5-315; thin seams of black sub-met-min (sph/hem) to 1/8" in fol. to 10% of rock</p> <p>From 314.5-315; locally strongly fractured & chloritized. 2 5% diss Py, minor hem.</p>	0.1	17%	325	100%	327.5	100%			
340	PERV. ALT.	PERV. ALT.					<p><u>315-327.5 CARBONATE-SERICITE ALTERED DACITE CRUSTAL TUFF</u></p> <p>light greenish gray to beige, vfg. v. granular appearing (sugary but recrystallized?) dacite crystalline tuff, relatively hard, siliceous, composed of fine qtz grains/reshls (60%) set in a sericite-carbonate groundmass (may be a silicified more mafic rock, appears very bleached)</p> <p>mod. fol @ 45° to c.a. (sch. doesn't appear bedded), as exhibited by align. & pred. or. of small (1/32-1/16") dk gray blebs of sub-met. min. (hem/sph?) to 10%, leads v. spotted appearance to rock (may be hlt frags)</p> <p>weak to mod. fracturing, pred. in fol (other or. present), 2 pred. qtz & calc fr. fill, some minor chl, ser, hem.</p> <p>contains a few 1/4-1/2" qtz (& minor carb) vns pred. in fol., us. 2 pyritic vein margins</p> <p>few 2-3" w/dly chloritized zones</p> <p>SULPHIDE CONTENT: 1% Py, 9% fine diss. amorph blebs & cubes to 1/16" us. prox. to qc veins, & 10% quartz to pink-gray sub-met-min in spatial ass. & Py (sub-met-min may pseudomorph Py)</p>	0.4	0.5%	337	100%					
350	STRONG	STRONG					<p>@ 315.5; 1" qtz in 1" fol. locally strongly frac. around vns. 2 5% Py over 6" as frac fill of diss. blebs to 1/4" & 5% sub-met-min. 1/2" chl' shew beside vns.</p> <p>@ 317.5; a few 1/2" qtz vns in fol.</p> <p>@ 321; a few 1/4" qtz vns rec'd fol. @ 50° to c.a. 2 Py to 240/e" as frac fill, diss. cubes.</p> <p>@ 325.5; frac rec'd fol @ 50° to c.a. 2 1/2" hem. chl alt. halo</p> <p>unit becomes increasingly chloritic from 327-327.5; rather indistinct contact.</p>	0.6	37%	347	100%	347.5	100%			
	STRONG	STRONG					<p>coarser, gabbroic phase</p> <p>qtz blebs (alt) to 3/16" in 1" fol.</p> <p>silicified</p> <p>qtz-carb vns</p> <p>qtz vns</p> <p><u>DAC. TUFF</u></p> <p>qc veins</p>	0.6	27%	357	100%	358	100%			

HOLE NO. JL-84-F3

PROJECT: JIM'S LAKE

PAGE NO: 2A OF 11

CASING COLLAR ELEV.: 329

GROUND ELEV.:

DATE STARTED: NOV. 28/84

REF. TO CLAIM CORNER:

COORDINATES: 1104 E. 13100 S. N.

E.

DATE FINISHED: DEC. 3/84

SCALE: 1" = 10'

INCLINATION: -55°

BEARING: 360°

TOTAL DEPTH: 863'

LOGGED BY: D. McJVR

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS: ADDITIONAL NOTES	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTI-MATED
							<p><u>327.5' - 355' CARBONATIZED ANDESITE TO BASALT</u></p> <ul style="list-style-type: none"> rock pred a dk green vfg and to bas - mod foliation (schistosity) @ 40° or of 40° to ca., locally ranges from 25°-30° as exhibited by align. & pred. or. of 5% small (ca. 1/32") elong. (11 fol.) thin white slips of unknown min. (carb?/spars) - (kinds v. effervescent app. to rock, but no apparent bldg.) & or. of thin calc blebs & seams. moderately carbonatized. 2 20% calc as by diss (pervasive alt) min. & thin, often discontinuous seams/drillers 11 fol. (to 30% in places - semi-banded appearing in places) mod. pervasive chl. alt. rock is relatively soft. in places numerous (to 5%) thin (ca. 1/32") elong. (11 fol.) slips of pink unknown min. (gnts?; men?) occasional thin (to 1/2", av. 1/8-1/4") qtz & minor calc veins, pred. 11 fol. (other or. present) (calc often pink) contains 5% (av. locally ranges from 2-10%) by often cubic diss magnetite. alway my appearing phases, appears gabbroic, 2 carb blebs to 1/8" (as pseudomorphs of fspars). whly fractured, pred. 11 fol. (other or. present) 2 pred. calc. chl. minor qtz, Py. mte frac fill. appears to be some wk. ep alt. (of fspars) in places. SULPHIDE CONTENT: 0.5% diss Py cubes to 1/16" & Py ass & qc vns @ 329', 1/4" qtz vns cuts fol. @ 65° to ca., 2 1/2" bleached alt. into 2' 3% diss Py cubes to 1/8", locally thin 1/16-1/8" calc (rec & minor qtz) seams & blebs 11 fol. to 30% of rock. @ 331', 1" discontinuous qtz vns 11 fol., locally from 330-332', v. carb rich 2 40% diss calc & irreg calc seams @ 332', 1/4" qtz-calc vns veins fol. @ 30° to ca., @ 332.5', 1/2" pink calc vns 11 fol. @ 333', 1/2" pink calc-qtz vns 11 fol., @ 333.5', 1/2" qtz-pink calc fspars vns @ 26° to ca. @ 336', 1/4" qtz-calc vns veins fol. @ 28° to ca., 2 2% Py 1/2" as diss cubes to 1/4" @ rims. @ 338.5', 1/4" Py. mte. filled frac 11 fol., @ 340.5', 1/4" qc vns veins fol. @ 45° to ca. from 347.5' - 348.5', fol (sch) v. strong @ 40°, Py locally to 1%. @ 348.5', 2' zone 2 num thin qb-calc bands/vns 11 fol. from 348.5' - 355': silicified zone (2), 2 qtz to 20% as diss blebs from 1/8-1/4", locally mg. - locally qtz vns to 5%, 1-2", 2 minor ass calc, hydro luge carb (dol) & fspars - sil. is patchy. from 348.5' - 349.5', qtz to 30%, locally qtz blebs often rimmed by mte (to 10%) @ 350', 1" qtz-calc vns 11 fol., locally (from 348.5' - 355') Py increases to 3% as diss cubes to 1/8" ass. & sil. zones. from 350.5' - 352', strongly sil., 2 qtz blebs to 1/4" & 25% num. 1/4-1/2" qb-calc vns @ rnd. or. (2 generations), Py locally to 5% as cubes to 1/8" & thin drillers 11 fol. (Py app. replace mte) - @ 352', 1" qtz-calc. hd greenish luge dol. vns 2 Py cubes to 1/8" @ rims from 353' - 355', num. 1" granular appearing qtz-calc-dol (hd, greenish luge carb) vns 11 fol., 2 3% ass. Py as cubes within vns & @ margins relatively indistinct contact & underlying unit. <p><u>355' - 358' DACITE TUFF OR EPICLASTIC EQUIVALENT</u></p> <ul style="list-style-type: none"> v. note, very indistinct & gradational contacts. This unit may be an altered, recrystallized zone. vfg. light greenish luge rock, comprised of vfg (ca. 1/32") qtz blebs - to 60-70%, v. granular appearing, almost sugary tuff (recrystallized?) set in a carb. Coaly v. wk reaction Hcl. calc & dol) groundmass, also 2 mod. sericite alt. well dev. foliation @ 40-45° to ca., as exhibited by align. & pred. or. of 10% small (to 1/16") blebs of black sub-metallic min. (?) contains numerous qtz-calc (2 minor hder greenish-luge carb) veins @ rnd. or. to 1" & 10% of rock SULPHIDE CONTENT: 2% Py as diss. amorph. & cubic blebs to 1/16", often proximal to qc vns, f as frac. fill mod frac., pred. 11 sub 11 fol., 2 qtz-calc, Py, minor chl. frac fill contains a few thin more chloritic zones (num thin seams to 1/32" 11 fol.) contains 5% small (1/16") pinkish gray thin elong blebs 11 fol. of unknown min. 								

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	
	CHLORITE	SERICITE	CARBONATE	OTHER													
360'	MODERATE	STRONG	WEAK					358'-391.5' CARBONATIZED ANDESITE TO BASALT (TUFF?) - vlg. dk green, rel. soft andesite to basalt, moderate foliation (sch) @ 40°, or of 40° to c.c. (ranges from 35°-95°), as exhibited by pref. or. & align. of small (1/32"-1/16") carb (calc) (minor ass. qtz to 5%) blebs to 23% of rock. (may be buff frags or alt. patches - also form thin bands // fol.) - host is moderately chloritized, strongly carbonatized. - contains av. of 5% mte. as fine disc. cubes & blebs to 1/16" if occ. thin seams // fol. - wky fractured, @ random orientations, & pred. calc. minor qtz, chl, Py, frac. fill. - appcs silicified in new places, & small qtz blebs to 10% of rock - occasional qtz-calc vns to 1", pred. // fol. (above cut) - some minor epidote alt. (of fspars) in places. - numerous v. small (1/32") thin slips of white to pink unknown min. along // fol. (gats? - harder carb?) - SULPHIDE CONTENT: 0.5% diss. cubic Py - appears siline in places, & subhedral carb pseudomorphs after fspars. - from 358'-359.5', qtz-calc vns to 2" @ rad. or. to 30% of rock. - from 360'-363.5', bl. locally v. well developed, thinly banded @ 40° to c.c., & locally mte to 10% of thin seams to 1/16" // fol. - from 363'-364', thin diffuse qtz & calc vns/seams to 2" // fol. to 40% of rock & ass. strong chl-calc alt. host, @ 10% Py as disc blebs to 1/16". (Py may replace mte) - @ 365', 1/2" pink calc. qtz vns // fol., from 371'-371.5', num thin pink bear rich calc. seams - from 374.5'-375', num 1/4" qtz blebs (silicified) - from 377'-378', num. 1/2"-1" qtz-calc. hd. base carb vns // fol. to 10% - @ 382.5', 2" qtz vns, sculs fol. @ 50° to c.c., & Py cubes @ rims to 2% / 6". - mte gone by 387.5'. - from 387.5'-388.5', thin (to 1/2" av. 1/16") fq qtz-calc seams & along. frags (lepilli: buff frags?) to 60% of rock, ass. Py as disc cubes to 1%. - from 388.5'-391.5', v. siline app. & small subhedral carb pseudomorphs (of fspars) - N.B. - may be coarse buff, if qc blebs are frags. or altered flow, as no apparent bedding.	0.5 1.0 5 10 40	0.52	100%	80	358' 365' 369'	100%	358' 365' 369'	100%	
370'	PERVASIVE	STRONG	SILICIFICATION				pink calc seams CARB. AND-BAS	3.1		367'	100%						
380'	ALT.	STRONG	STRONG				qtz blebs (silicification) qtz-calc vns 5% diss mte qtz vns	2.7		377'	100%		377'	100%			
390'	STRONG	STRONG	STRONG				qtz-calc vns becomes siline appearing	2.3		387'	100%		387' 388.5' 388.5'	100%			
400'	STRONG	STRONG	STRONG				carb blebs to 1/2" (25% rock, buff fragmental appearance) CARB. AND	0.4 0.6		397'	100%		391.5' 397.5' 397.5' 397.5'	100%			
410'	STR	STR	STR				qtz-calc vns // 30% qtz-calc dol vns qtz-calc vns to 30% qtz-calc dol vns qtz-calc frags local vns N.B. - may be coarse buff, if qc blebs are frags. or altered flow, as no apparent bedding.	0.3 0.9 0.2 0.1 0.1		407'	100%		405' 408.5' 408.5'	100%			
	STRONG	STRONG	SILICA				qtz-calc alt. blebs. CARB. SERICITE ALL FEL-SIL TUFF	0.1 0.1		417'	100%		413' 419'	100%			
							qc veins & qc alt. halos	17.		417'	100%		419'	100%			

HOLE NO. JL-84-F3

PROJECT: JIM'S LAKE

PAGE NO: 3A OF 11

CASING COLLAR ELEV.: 3' a.g.

GROUND ELEV.:

DATE STARTED: Nov. 28/84

REF. TO CLAIM CORNER:

COORDINATES: 1104 E. 13+00 S N. E.

DATE FINISHED: DEC. 3/84

SCALE: 1" = 10'

INCLINATION: -55°

BEARING: 360°

TOTAL DEPTH: 863'

LOGGED BY: D. McIVER

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS: ADDITIONAL NOTES.	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
							<p>405.5' - 413' FUCHSITE BEARING, QUARTZ-CARBONATE RICH ALTERED INTERMEDIATE (CAPILLI) TUFF</p> <p>rock consists of a well foliated (bedding? @ 35° to ca.) light green v. grey sericite-chlorite groundmass. @ 50% elongate (11 fol.) fragmental appearing (capilli frags?) blebs of v. granular white to orange carb (only v. wk reache. HCl calc → dol) & qtz. & thin bands of carb. qtz 11 bd. (appears to be hp. 5-20 hft frags. but may be an alteration product)</p> <ul style="list-style-type: none"> wkly sch 11 fol. numerous younger qtz-calc. dol. v. to 2" & 5% prod. 11 fol. wkly fractured, prod. 11 fol. & qtz-carb. chl-ser. frac fill. trace fuchsite, as thin slips associated & qtz-carb veins & frags. & occ. thin fuch seams to 1/32". trace fine diss. cubic Py blebs to 1/16" @ 408.5' 1/8" by granular qtz-dol v. @ 35° & 2% fuchsite as thin slips @ v. margins. @ 409.2' 1" qtz-calc v. & 5% fuchsite as thin slips v. v. @ margins @ 410' 1/2" qtz-calc v. with wavy fol @ 45° to c.a. v. @ 2% fuchsite @ 411' 3' zone where qc frags/slips are hem stained orange from 411'-413' qc bands & frags to 60% of rock. @ 412' 3" by granular hard beige dol. band/v. bed 11 fol. arbitrary contact & underlying 'transitional' unit. <p>413' - 422' ALTERED (CARBONATE-SERICITE-QUARTZ) FELSIC TO INTERMEDIATE TUFF</p> <p>(transitional unit between overlying & underlying lithologies)</p> <ul style="list-style-type: none"> rock mod. a v. granular appearing light gray, retchely hard, siliceous felsic to intermediate tuff v. all. & irreg blebs & seams to 1/4" of v. granular carb (wk reache. HCl, rel. hard, calc. dol) - qtz as in previous unit, but no distinct shape or orientation) to 60% of rock, set in a moderately sericitized granular appearing groundmass (CRYSTAL TUFF) mod. foliation (sch & bd) @ 35-90° to c.a. mod. frac. & microfrac. 11 fol. & carb. qtz. ser. Py. frac fill. Fractures often & 1/8-1/4" qtz-carb alteration halos, very bleached appearing afew 1" qtz-carb veins both 11 to & scuffing fol. & qtz-carb alteration halos & ass. increase in Py min. (cubic & amorph blebs to 1/8") SULPHIDE CONTENT: 1% Py as diss. cubic blebs to 1/8" & min. ass. & qc veining & frac fill. contains 2-3% slips of pale pink micaceous min 11 fol. @ 419.5' 1" qtz v. 11 fol. & 2" light greenish gray granular qtz-carb alt. halo. from 419' - 419.5' bleached granular qtz-carb as halo around 1/2" qtz-calc v. @ 419.2' & associated 5% Py @ 419.7' 1" qc v. 11 fol. & 1/2" qc bleached alt. halo. both contacts arbitrary <p>422' - 438' FUCHSITE BEARING CARBONATIZED, SERICITIZED DACITE CRYSTAL TUFF</p> <p>light beige, very bleached appearing, consists of v. granular appearing qtz (& minor fuch?) grains/blebs to 60% of rock, set in an altered sericite (mod.) carbonate (strong) groundmass (carb. rel. hard. only wk reache. HCl → albite)</p> <ul style="list-style-type: none"> mod. strongly foliated (bd. & wk sch) @ 45° to c.a., & exhibited by the alignment of 3-5% small, thin (& 1/32") blebs of pink micaceous to sub-met. appearing min. in places contains a few larger (to 1/16") qtz grains? that lend gneissic appearance to rock. wkly fractured, prod. 11 sub 11 fol. & qtz-calc. ser. minor Py. hens. Hec. fill contains 3% fuchsite as thin (& 1/32") bright green slips 11 fol. & ass. & qc veining. contains a few qtz (& carb. Py) veins to 2" SULPHIDE CONTENT: 2% Py, as diss. cubic & amorph blebs to 1/16" & proximal to qc veining, & frac fill. rock appears v. spotted, from diss. Py & sub-met. min blebs) @ 422.5' 1/4" qtz v. v. v. fol @ 70° Py @ margins to 5% 1/8" @ 423.5' 6" bright orange hemchized alt. halo around frac. from 425.3' - 426' numerous thin (1/4-1/2") qtz-carb vns rest fol @ 45°-70° to c.a. to 30% of rock, surrounding host is strongly silicified, & 10% Py as blebs to 1/8" @ v. margins & diss. min. @ 426.8' 1" qtz v. 11 fol. & 5% Py @ rims, & thin 1/32" fuchsite seams @ rims. @ 430' 1" qtz v. sub 11 fol @ 35° & 5% Py @ v. margins @ 430.5' a few 1/4" qtz-carb vns & Pyitic margins. from 433' - 434' oxidized zone, hem stained carb as halo around hem. filled ipes., locally from 434' - 435.5' num. (to 5%) qtz blebs to 1/8", lends elastic appearance to rock. @ 436' a few 1/2" hem-st. halos around frac, same @ 437.5' indistinct contact & underlying, more chloritic unit (bleaching/alt lessens). 								

HOLE NO. JL-84-F3

PROJECT: JIM'S LAKE

PAGE NO: 4 OF 11

CASING COLLAR ELEV.: 3' a.g.

GROUND ELEV.:

DATE STARTED: Nov. 28. 84

REF. TO CLAIM CORNER:

COORDINATES: 1309 E. 13+00 S N. E.

DATE FINISHED: DEC. 3. 84

SCALE: 1" = 10'

INCLINATION: -65°

BEARING: 360°

TOTAL DEPTH: 863'

LOGGED BY: D. McIVER

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE RECY / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% RECY. SAMP. INT.	ESTI-MATED		
	CHLORITE	SERICITE	CARBONATE	OTHER														
420'	N.F.	H.F.	M.F.	S.F.		P	438-443' ANDESITE CRYSTAL TUFF OR REMOVED EPICLASTIC EQUIVALENT vfg. granular app. med. gr. andesite tuff or epiclastic equivalent mod chl-ser alt. 2-10% small (to 1/8") qtz 'eyes', quite 'dirty' appearing (wecke?) mod. carbonatized, 2-15% diss calc. dol (w/ wk reac HCl) mod. fractured, 2-3% pred. or. 2 pred. qtz, minor carb. hem. chl. ser. frac fill. usually 2 1/4" qtz bleached white calc alt. islets around fracs along thin slips of unknown pink min. - w/ky foliated (bd. & sch) @ 40° to c.a. fr. by diss py from 441.5' - 442' strongly oxidized, 2 abund. hem & siderite halos on carb. hem filled fracs. gradational, indistinct contact 2 underlying unit.	0.1	TR	420'	100%	80	441' 422'	100%				
430'	M.O.D.	M.O.D.	M.O.D.	M.O.D.		P	443-476' FUCHSITE BEARING, SCHISTOSE DACITE CRYSTAL TUFF (OR EPICLASTIC EQUIVALENT) vfg. dull gray, vel. soft altered dacite crystal tuff or epiclastic equiv. v. granular appearing thinly bedded 2 v. strongly sheared, sch. @ 20° or. of 45° to c.a. Although highly variable in places 2 small scale intense folding. - gray may be weakly carbonaceous. mod. schistitized, in places w/ky chloritized mod. carbonatized, 2 25% vfg. diss carb (w/ wk reaction HCl. may be calc. dol) as prev. alt. 2 thin seams 11 fol. contains 10-15% small (to 1/16") qtz 'eyes' that lend dashic appearance to rock. mod. fractured, one set 11 sub 11 fol. numerous sets, 2 chl. ser. carb. qtz. py. hem type fill. afew thin qtz-calc vns. pred. 11 fol. afew light beige + bleached appearing zones where stronger carb alt. locally more qtz. becomes gradationally softer, increasingly sch from 443-476', 2 qtz content decreasing. num. thin dk gray chl (2 tr. graph?) seams appear to w/ky brecciate rock in places. SULPHIDE CONTENT: 0.5% diss py cubes 2 occ. thin slips 11 fol. to 1/16" fuchsite to 1% as thin slips 11 foliation. from 443-444' bleached, more siliceous 2 20% small qtz blobs/grains from 444-444.5' afew qtz (2 minor calc) veins to 2" 11 fol to 50% of rock. 2 locally afew thin fuchsite slips. py locally to 5% as cubes to 1/8", locally abundant hem frac fill. from 448.5' - 450' afew thin qtz-calc vns to 1/4" 11 fol. locally strongly fractured 2 abund. hem frac fill 2 hem alt. halos. py locally to 2% as diss. cubes to 1/16" locally sch. highly contorted. from 455-456' afew hem filled fracs 2 1/4" hem alt. halos from 466-467.5' strongly fractured, strongly oxidized zone, 2 num hem filled fracs 11 fol. 2 12" hem alt. halos @ 460.5' locally sch. highly contorted. from 462-464' coarsens slightly @ 467' 1" contorted qtz-calc vns from 468-471' sch. highly contorted. py locally to 1% as thin seams 11 sch. @ 475' sch. highly contorted. arbitrary contact 2 underlying, coarser, more sericitic unit. 476-489' FUCHSITE BEARING ALTERED (SERICITE-CARBONATE) DACITE (TUFF). rock pred. a light greenish gray, relatively hard, siliceous, py dacite. mod. strongly foliated @ 20° to c.a. (sheared, schistose) strongly altered, 2 50% carb. as prev alt. rimming v fine qtz/fapor grains/stals that comprise rock. - lends v. mottled app. to rock. mod. sericite altered, as thin slips/seams 11 fol. to 20% of rock. afew thin chl slips/seams mod. fractured. pred. 11 fol. 2 pred. carb. minor qtz. chl. ser. frac fill. afew thin qtz-calc vns to 1" pred. 11 fol. contains trace amounts of fuchsite, as afew thin slips 11 fol. 2 min. ass. 2 qc veining.	0.1	2%	430'	100%		451'	100%				
440'	M.O.D.	M.O.D.	M.O.D.	M.O.D.		P	AND. XTAL TUFF hem. sid. or. zone qtz vns 2 fuch gray, soft, dac. fill becomes gradationally softer, increasingly sch from 443-476', 2 qtz content decreasing. num. thin dk gray chl (2 tr. graph?) seams appear to w/ky brecciate rock in places. SULPHIDE CONTENT: 0.5% diss py cubes 2 occ. thin slips 11 fol. to 1/16" fuchsite to 1% as thin slips 11 foliation. from 443-444' bleached, more siliceous 2 20% small qtz blobs/grains from 444-444.5' afew qtz (2 minor calc) veins to 2" 11 fol to 50% of rock. 2 locally afew thin fuchsite slips. py locally to 5% as cubes to 1/8", locally abundant hem frac fill. from 448.5' - 450' afew thin qtz-calc vns to 1/4" 11 fol. locally strongly fractured 2 abund. hem frac fill 2 hem alt. halos. py locally to 2% as diss. cubes to 1/16" locally sch. highly contorted. from 455-456' afew hem filled fracs 2 1/4" hem alt. halos from 466-467.5' strongly fractured, strongly oxidized zone, 2 num hem filled fracs 11 fol. 2 12" hem alt. halos @ 460.5' locally sch. highly contorted. from 462-464' coarsens slightly @ 467' 1" contorted qtz-calc vns from 468-471' sch. highly contorted. py locally to 1% as thin seams 11 sch. @ 475' sch. highly contorted. arbitrary contact 2 underlying, coarser, more sericitic unit. 476-489' FUCHSITE BEARING ALTERED (SERICITE-CARBONATE) DACITE (TUFF). rock pred. a light greenish gray, relatively hard, siliceous, py dacite. mod. strongly foliated @ 20° to c.a. (sheared, schistose) strongly altered, 2 50% carb. as prev alt. rimming v fine qtz/fapor grains/stals that comprise rock. - lends v. mottled app. to rock. mod. sericite altered, as thin slips/seams 11 fol. to 20% of rock. afew thin chl slips/seams mod. fractured. pred. 11 fol. 2 pred. carb. minor qtz. chl. ser. frac fill. afew thin qtz-calc vns to 1" pred. 11 fol. contains trace amounts of fuchsite, as afew thin slips 11 fol. 2 min. ass. 2 qc veining.	0.1	T.R.	440'	100%		438'	100%		438'	100%	
450'	W.E.A.K.	M.O.D.	M.O.D.	M.O.D.		P	hem. sid. or. zone hem halos on fracs FUCHSITE BEARING SHEARED, SCH. DACITE XTAL TUFF hem (or) zone contorted sch 1/2 thin fuch slips qtz vns sch. contorted	0.1	0.5%	450'	100%		449'	100%				
460'	P.A.T.C.H.	M.O.D.	M.O.D.	M.O.D.		P	contorted sch 1/2 thin fuch slips qtz vns sch. contorted	0.1	0.5%	460'	100%		457'	100%		450'	100%	
470'	A.L.T.	M.O.D.	M.O.D.	M.O.D.		P	contorted sch 1/2 thin fuch slips qtz vns sch. contorted	0.1	0.5%	470'	100%		467'	100%		460'	100%	
480'	V.H.K.	H.O.D.	V.S.R.	V.S.R.		P	fol slips FUCH. BEARING SEA-CARB ALT. DAC. (TUFF) SULPHIDE CONTENT: 0.5% py, as diss cubes 2 blabs usually proximal to qc veining; in places to 2% @ 477.5' afew thin 1/16" sch slips 11 fol.	0.1	0.5%	480'	100%		477'	100%		476'	100%	

HOLE NO. JL-84-F3

PROJECT: JIM'S LAKE

PAGE NO: 5 OF 11

CASING COLLAR ELEV.: 3' + 3'

GROUND ELEV.:

DATE STARTED: NOV. 28/84

REF. TO CLAIM CORNER:

COORDINATES: 1104E 12700 S N. E.

DATE FINISHED: DEC. 3/84

SCALE: 1" = 10'

INCLINATION: -55°

BEARING: 360°

TOTAL DEPTH: 863'

LOGGED BY: D. McIVOR

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
	CHLORITE	SERICITE	CARBONATE	OTHER												
480'	WEAK	MODERATE	VERY STRONG				<p>qtz-carb. hch vn</p> <p>476'-489.5' CONT.</p> <p>- from 476'-478.5', locally fol. v. distorted, a few 1/2" hem. blebs</p> <p>- @ 482', 1" qtz-hd white carb vn 11 fol., trace fuchsite c rims</p> <p>- from 482'-487', sch/fol v. weak, unit becomes increasingly chloritic towards 489.5'</p> <p>- @ 489.5', 1/2" qtz-hd white carb vn 11 fol.</p> <p>189.5'-512.5' CHLORITE-SERICITE-CARBONATE SCHIST (ALTERED MAE VPWC/KOM)</p> <p>- fq. dark green, v. strongly sheared, schistosp. (sch. pred. @ 45° to c.a., varies from 40°-45°), v. gottl, strongly altered mafic volcanic</p> <p>- comp. of a 30% sericite, 40% chlorite, 26% carbonate (pred. calc.), although compositions vary locally, occurring as carb. bands & diss blebs along "R.L. (137)" in schistose chl-ser gndmass. - may be minor amounts of talc present.</p> <p>- wkly-mod fractured, pred. 11 sch. (either or present), i. pred. calc. minor chl-ser. frac fill.</p> <p>- a few thin 1/2"-1" qtz-calc vns @ random orientations.</p> <p>- appears "grained" in places, may be wk remnant mg siline fct.</p> <p>- SULPHIDE CONTENT: trace py, diss, py, ps cubes to 1/16", minor py frac fill ass i calc.</p> <p>- @ 498', 2" zone of intensely contorted sch., rock intensely chl-ser alt.</p> <p>- @ 497.2', 1" mg gran. qtz-calc vn 11 sch., @ 499.3', 2" qtz-calc vn 11 sch.</p> <p>- from 503.5'-504', 1/2" qtz-calc vn @ 0° to c.a.</p> <p>- @ 508', 1" calc vn @ 20° to c.a.</p> <p>- from 509'-509.5', locally diss py cubes to 1/8" & 2%.</p> <p>- @ 513', a few 7/8" calc bands/vns 11 sch & minor diss py</p> <p>- relatively indistinct contact & underlying unit</p> <p>513.5'-539' DIORITE TO GABBRO</p> <p>- rock pred. a mg siline light green pline diorite to gabbro, composed of approx 50% ferromagn (py) & 30% fsp (pred. plag).</p> <p>- wkly fol. @ 50° to c.a. (wk schistosity)</p> <p>- mod. fractured, @ random or. (one set 11 wk fol.), & pred. calc frac fill, minor chl hem qtz-carb.</p> <p>- a few thin qtz-calc vns @ random orientations</p> <p>- relatively hard, fresh, only wk perv chl. alt. of ferromagns, & wk to mod carb (calc) alt. (off fspars?)</p> <p>- trace diss py as cubes to 1/16", often proximal to qz veining</p> <p>- from 513.5'-521', rather more strongly sch. sheared appearing, & less well developed (or overprinted) siline fct., stronger diss. chl-carb alteration.</p> <p>- relatively hd, fresh & diss py cubes to 1/8" & 5%.</p> <p>- @ 523', 2" zone of diss py cubes to 1/8" & 5%.</p> <p>- @ 524', a few 1" qtz-calc vns pred 11 fol.</p> <p>- @ 525.2', 1" qtz-calc vn 11 fol.</p> <p>- @ 527.5', a few 1/4" calc-hem seams (filled frac)</p> <p>- @ 528.5', 2" chloritic shear zone @ 70° to c.a., & 2-2% diss py & qtz-calc</p> <p>- blebs. vns to 30%</p> <p>- @ 535', 1/2" qtz-calc-hem vn @ 20° c.a.</p> <p>- becomes finer grained from 537'-539', more andesitic appearing</p> <p>- rather arbitrary contact & underlying unit.</p>	0.5% 10 5 10 50			475'					
490'	STRONG	STRONG	STRONG	WEAK TO ALT.			<p>qtz-carb vn</p> <p>v. strongly sch @ 45°</p> <p>carb (calc) seams to 25%</p> <p>sch locally highly clustered</p> <p>qc vn</p> <p>CHLORITE-SERICITE-CARB SCHIST</p> <p>qc vn</p> <p>qc vn</p> <p>qc vn</p>	0.5%	96%	100%	80	485.5'	100%			
500'							<p>qc vn</p> <p>qc vn</p> <p>qc vn</p>		497'	100%		501'	100%			
510'							<p>qc vn</p>		527'	100%		513.5'	100%			
520'	WEAK	WEAK TO MODERATE					<p>mod. sch from 513.5'-521'</p> <p>DIORITE TO GABBRO</p> <p>qc vn</p> <p>chl shear zone</p>		517'	100%						
530'	WEAK								527'	100%						
540'									537'	100%						

HOLE NO. J1-B4-F3

PROJECT: JIM'S LAKE

PAGE NO: 6 OF 11

CASING COLLAR ELEV. 312.3

GROUND ELEV.:

DATE STARTED: NOV. 28. 84

REF. TO CLAIM CORNER:

COORDINATES: 1104E, 13100S N. E.

DATE FINISHED: DEC. 3. 84

SCALE: 1" = 10'

INCLINATION: -55°

BEARING: 360°

TOTAL DEPTH: 863'

LOGGED BY: D. McSVOR

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
	CHLORITE	SERICITE	CARBONATE	OTHER												
540																
	MODERATE TO STRONG PERSISTENT	WEAK TO MODERATE	WEAK TO MODERATE	PATCHY WEAK SILICIFICATION			<p>539-608' CHLORITIZED ANDESITE TO BASALT</p> <p>rock pred. a v. to fg. dk green andesite to basalt. ± coarser dioritic, gabbroic appearing phases.</p> <p>v. soft, mod to strongly chloritized, mod. sericitized, w/ky carbonatized in places. ± minor v. dy. diss. calc. blebs - often harder, less altered "windows".</p> <p>moderately schistose, sheared appearing, @ 55° to core axis.</p> <p>moderately fractured, @ ind. orientations. ± prod. calc. minor hem. chl. qtz carb. ser. bleb in places. fracture filling.</p> <p>few light gray diffuse appearing calcite (± minor qtz) veins @ rad. or. to 2-3%.</p> <p>SULPHIDE CONTENT: 0.25% to 1% Py, cubic & amorph blebs to 1/16", often proximal to qtz veins or infilled fractures.</p> <p>@ 540.5' 1/4" calc. v. @ 90° to c.a. ± locally over 1". Py to 5% as diss. cubes to 1/8"</p> <p>@ 542.5' 1/4" calc. v. filled frac @ 80° to c.a.</p> <p>from 542-544' locally mod. carbonatized, ± diss. calc. to 10%.</p> <p>@ 544' 1" qtz-calc v. @ 40° to c.a.</p> <p>from 544-544.5' slightly silicified. @ 545' 1" qtz-calc v. @ 50° to c.a.</p> <p>@ 545.5' few 1/16" Py veins // fol.</p> <p>@ 549.5' 1" fg qtz-calc v. // fol @ 50°</p> <p>from 555-557' locally slightly coarser, appears gabbroic.</p> <p>@ 556' locally 2 1/2" Py // as diss cubes to 1/16"</p> <p>@ 558.5' 1" vfg qtz-calc v. roots fol. @ 50° to c.a.</p> <p>@ 561' 1" fg calc. minor qtz v. // fol. locally Py cubes to 1/16" to 1/8"</p> <p>from 562.5-565' few 1" qtz veins @ rad. or.</p> <p>from 563-564' locally coarser, appears dioritic.</p> <p>@ 564.5' few 1/8" Py cubes along thin calc veins // fol.</p> <p>from 565.7-566.5' 1" vfg gran calc-qtz v. @ 0° to c.a.</p> <p>from 568-568.5' few 1/4" calc-qtz v. pred. // fol. occ. vuggy.</p> <p>@ 571.5' 2" vfg gran qtz-calc-ser band/v. // fol.</p> <p>from 573-573.5' locally Py to 2% as cubes to 1/8" along fractures & ass. ± numerous thin calcite vns @ rad. or.</p> <p>@ 576' 2" diffuse appearing light gray-green calc > qtz > ser v. roots fol. @ 45° to c.a.</p> <p>from 584-590.5' appears slightly coarser, v. fine. appears dioritic to gabbroic. relatively hud. fresh.</p> <p>@ 584.5' 1" vfg granular qtz-calc-ser v. // fol.</p> <p>@ 586.5' 1/2" qtz-calc v. roots fol. @ 45° to c.a.</p> <p>from 593.5-595' qtz-calc ± minor magnesite? veining & frac fill to 2" E 10%.</p> <p>from 590.5-608' becomes strongly carbonatized. ± 20-25% vfg diss calc.</p> <p>indistinct, gradational contact ± underlying unit.</p>	MAG. SUS. (LOG 30 SCALE) 0.5 1.0 5 10 50								
550							<p>qtz-calc vns</p> <p>sch. @ 55° to c.a.</p>	0.25%		547'	100%	80	543'			
560							<p>qtz-calc v. CHLORITIZED AND-BAS</p> <p>locally slightly coarse, calcite</p> <p>qtz-calc v.</p> <p>calc. qtz v.</p> <p>qtz vns</p> <p>locally coarser gabbroic phase</p> <p>qtz v.</p>			557'	100%					
570							<p>qtz vns</p> <p>qtz-calc-ser v.</p>	0.25%		567'	100%		567'			
580							<p>qtz-calc-ser v.</p> <p>slightly coarser, appears dioritic to gabbroic.</p>			577'	100%		577'			
590							<p>qtz-calc-ser v.</p> <p>qtz-calc v. vng to 10%.</p>	0.25%		587'	100%					
600										597'	100%		590'			

HOLE NO. JL-84-F3

CASING COLLAR ELEV.: 3' a.g.

COORDINATES: 1104E. 13+005 N.

INCLINATION: -55°

GROUND ELEV.:

E.

BEARING: 360°

PROJECT: JIM'S LAKE

DATE STARTED: Nov. 28/84

DATE FINISHED: DEC. 3/84

TOTAL DEPTH: 863'

PAGE NO: 8 OF 11

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY: D. M. [VOR]

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									
	CHLORITE	SERICITE	CARBONATE	OTHER																					
660'	MODERATE	NIL	MODERATE	PATCHY	SILICIFICATION	AS	AMULES	DESCRIPTIVE GEOLOGY	0.5				30												
670'									1.0									100%							
680'									5																
690'									10																
700'									50																
710'									100																
720'									50																
730'									100																
740'									100																
750'									100																

CONT.

HOLE NO. JL-84-F3

PROJECT: JIM'S LAKE

PAGE NO: 9 OF 11

CASING COLLAR ELEV.: 3243

GROUND ELEV.:

DATE STARTED: NOV. 28/84

REF. TO CLAIM CORNER:

COORDINATES: 1104 E. 13000 S. N.

E.

DATE FINISHED: DEC 3/84

SCALE: 1" = 10'

INCLINATION: -55°

BEARING: 360°

TOTAL DEPTH: 863'

LOGGED BY: D. McIVOR

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	
	CHLORITE	SERICITE	CARBONATE	OTHER													DESCRPTIVE GEOLOGY
720'	MODERATE NEIL PATCHY ALTERATION NEIL MODERATE NEIL	MODERATE	WEAK	V	P Pg Pg	P Pg Pg	qtz-calc seams & sil. alt halo	0.1	0.5%	727'	100%	80					
730'							qtz-calc vns	0.1								731'	
740'							coarser gabbroic appearing phase	0.1								736'	100%
750'							qtz-calc vns	0								737'	
760'							qtz-calc vns	0								747'	
770'							slightly coarser, strongly carbonatized	0								752'	
780'							qtz-calc vns	0								757'	100%
790'							qtz-calc vns	0								767'	100%
800'							qtz vns	0								777'	
810'							qtz-calc vns & sil. carb alt halo	0.2								787'	100%
820'	qtz-calc vns & 10% Py																
830'	qtz-calc vns																
840'	qtz vns																
850'	qtz vns & carb alt halo																
860'	slightly coarser, appears gabbroic																

517-815' CONT.

- from 777', becomes slightly coarser, appears wkly gabbroic. Py to 1% as by diss an minor frac fill.
- @ 785', 2" diffuse appearing gray vfg granular pred. qtz minor calc vns.
- @ 787.7', 1" fg granular pred. calc minor qtz vns @ 80° to c.a., & a bleached, carbonatized 2" alt. halo.
- @ 792', 2" qtz-calc vns in fol. @ 55° @ 793.7', 1" diffuse app. fg granular calc vns @ 0°.
- @ 794.5', 1/8" calc. Py filled frac @ 25° to c.a.
- locally from 792'-802', mg. v. gabbroic app. only wkly fol. @ 55° to c.a.
- @ 798.5', 1/2" qtz-calc vns cuts fol. @ 45° to c.a.
- @ 800.5', 2" qtz minor calc vns in fol. @ 60° to c.a.
- @ 805.5', 1" granular calc-qtz fleb.
- from 807-810', num thin pred. qtz minor calc-hem filled fracs @ end or., often & 1/2" strongly silicified alt. halo.
- @ 809.5', a few 1/2-1" pink calc minor qtz vns @ 30°, & minor diss Py @ rims.
- @ 810', 1" diffuse calc seams, locally & 2% Py/4"

arbitrary contact & underlying more strongly sch. alt. unit -

ANDESITE TO BASALT & GABBROIC PHASES

coarser gabbroic phase
qtz-calc vns

qtz-calc vns
qtz-calc vns

slightly coarser, strongly carbonatized
qtz vns

qtz vns & sil. carb alt halo
qtz-calc vns & 10% Py

qtz-calc vns

qtz vns
qtz vns & carb alt halo

slightly coarser, appears gabbroic

HOLE NO. JL-84-F3

PROJECT: JIM'S LAKE

PAGE NO: 10 OF 11

CASING COLLAR ELEV.: 3'a.g.

GROUND ELEV.:

DATE STARTED: Nov. 28/84

REF. TO CLAIM CORNER:

COORDINATES: 1104 E. 13'00 S. N.

E.

DATE FINISHED: DEC. 3/84

SCALE: 1" = 10'

INCLINATION: -55°

BEARING: 360°

TOTAL DEPTH: 863'

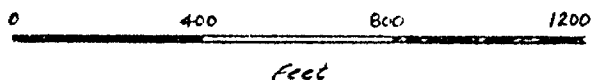
LOGGED BY: D. M. JOER

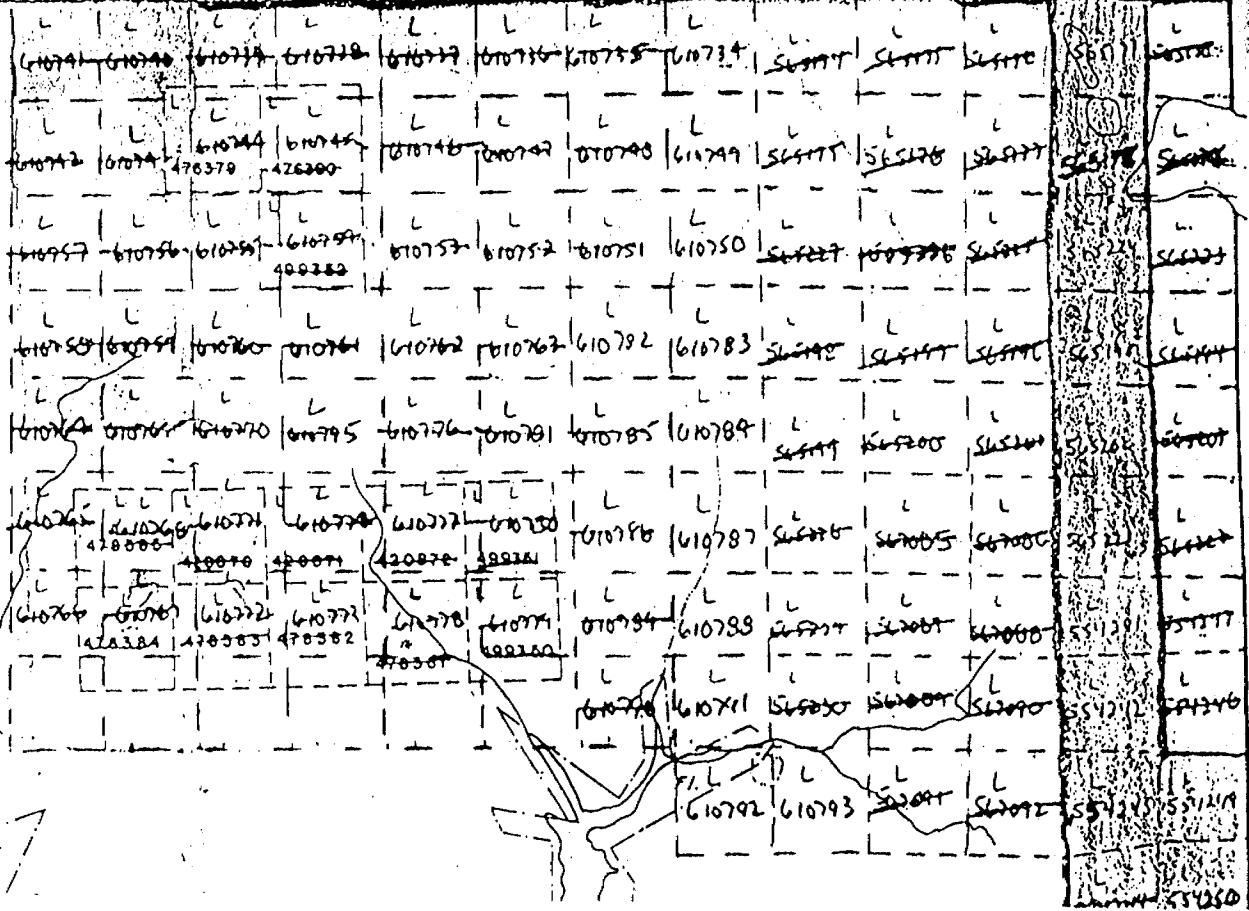
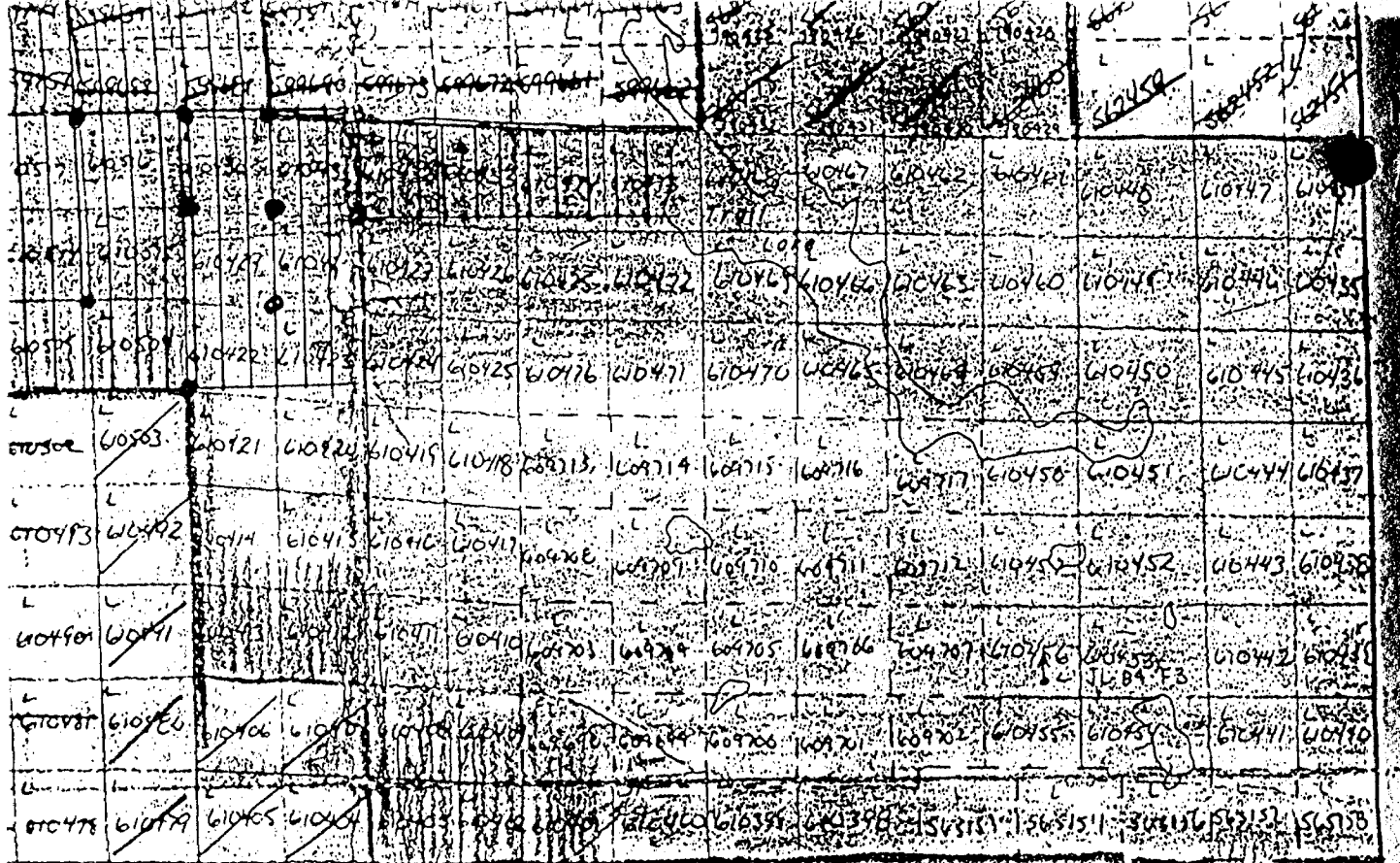
SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y. SAMP. INT.	ESTI-MATED
	CHLORITE	SERICITE	CARBONATE	OTHER												
780'	MODERATE	MODERATE	MODERATE	WEAK			slightly coarse gabbroic appearing phase - qz-calc vn ANDESITE TO BASALT (± GABBROIC PHASES)			0.57	787'	100%	BQ			
790'	MODERATE	MODERATE	MODERATE	WEAK			qtz-calc vn c carb ^o alt. halo - qz-calc vn - calc vn locally mg. v. gabbroic appearing			0.57	797'	100%				
800'	MODERATE	MODERATE	MODERATE	WEAK			813'-834.5' ALTERED (CARBONATIZED) ANDESITE (TUFF?) - rock pred. c to light green to grayish green (where intensely carb ^o), w/ky to moderately chloritized, strongly carbonized (diss calc as prev. alt) rock, appears andesitic, may be equivalent to overlying unit, but more strongly altered, more strongly foliated; or may be a tuff; appears bedded towards 834.5' - strongly schistose @ 55°-60° to ca., numerous (to 10%) small (< 1/32") pink & white blebs along 11 fol. of 2 min. bands buffaceous app. to rock - contains 5% small (1/16") qz blebs (alt. product? amygdules?); - becomes increasingly altered towards 821.5'; ± from 829.5'-831' a gray thinly bd. appearing, intensely carbonized aphanitic rock. - numerous thin calc & qz-calc vns pred. 11 fol. to 1/2" - moderately fractured, pred 11 fol. although other orientations present, ± pred calc. minor chl. qz-calc frac fill. - SULPHIDE CONTENT: 0.5% diss Py, tr. Po-Cpy, minor frac fill & min. ass. ± vining. - from 813'-813.5': diffuse appearing for granular calc. minor qz vn @ 50° to ca. - from 813.5'-814': coarse qz-calc vn 11 fol. @ 55° - @ 814.2': 2" coarse qz-calc vn, 11 fol. @ 55° - @ 814.5': 4" coarse qz-calc vn 11 fol. ± minor Py @ vms, surrounding host v strongly chl. carb alt. - @ 815.2': 2" coarse qz-calc vn 11 fol. ± 0.5% diss Po-Py as blebs & frac fill. - @ 815.5': a few 1" qz-calc vns 11 fol. ± 2% Po, tr. Py-Cpy, as blebs to 1/4" ass. ± vining. - from 813'-816.5': qz veining 60% of rock - from 815.5'-819': v. soft, strongly schist @ 55° to ca., light green, v. strongly chl., w/ky ser. ±, strongly carb ^o , ± diss calc to 20% - from 819': qz blebs to 10% of rock. - from 829.5'-831.5': gray, intensely carb ^o , Py to 2%, as thin slips 11 fol. frac fill & diss. blebs, a few thin graphitic slips 11 fol., - from 831.5'-831.5': Py to 10%.									
810'	MODERATE	MODERATE	MODERATE	WEAK			calc-qtz vn qtz-calc seams & sil. halos - calc vn			0.57	807'	100%		807'	100%	
820'	WEAK	STRONG	STRONG	STRONG			qtz-calc vns sph @ 55° qtz-calc vns CARB ^o AND. small qz blebs			1%	817'	100%		813'	100%	
830'	MODERATE	MODERATE	MODERATE	WEAK			few thin graph slips			0.57	827'	100%		816'	100%	
840'	MODERATE	MODERATE	MODERATE	WEAK						0.57	822'	100%		822'	100%	
850'	MODERATE	MODERATE	MODERATE	WEAK						2.7	837'	100%		829'	100%	
860'	MODERATE	MODERATE	MODERATE	WEAK			MIN GRAPH ARG			8%	837'	100%		831.5'	100%	
863'	MODERATE	MODERATE	MODERATE	WEAK						8%	837'	100%		831.5'	100%	



UTAH MINES LTD.
 JIM'S LAKE PROPERTY

DDH - JL-84-F3 LOCATION
 Scale: 1" = 400'



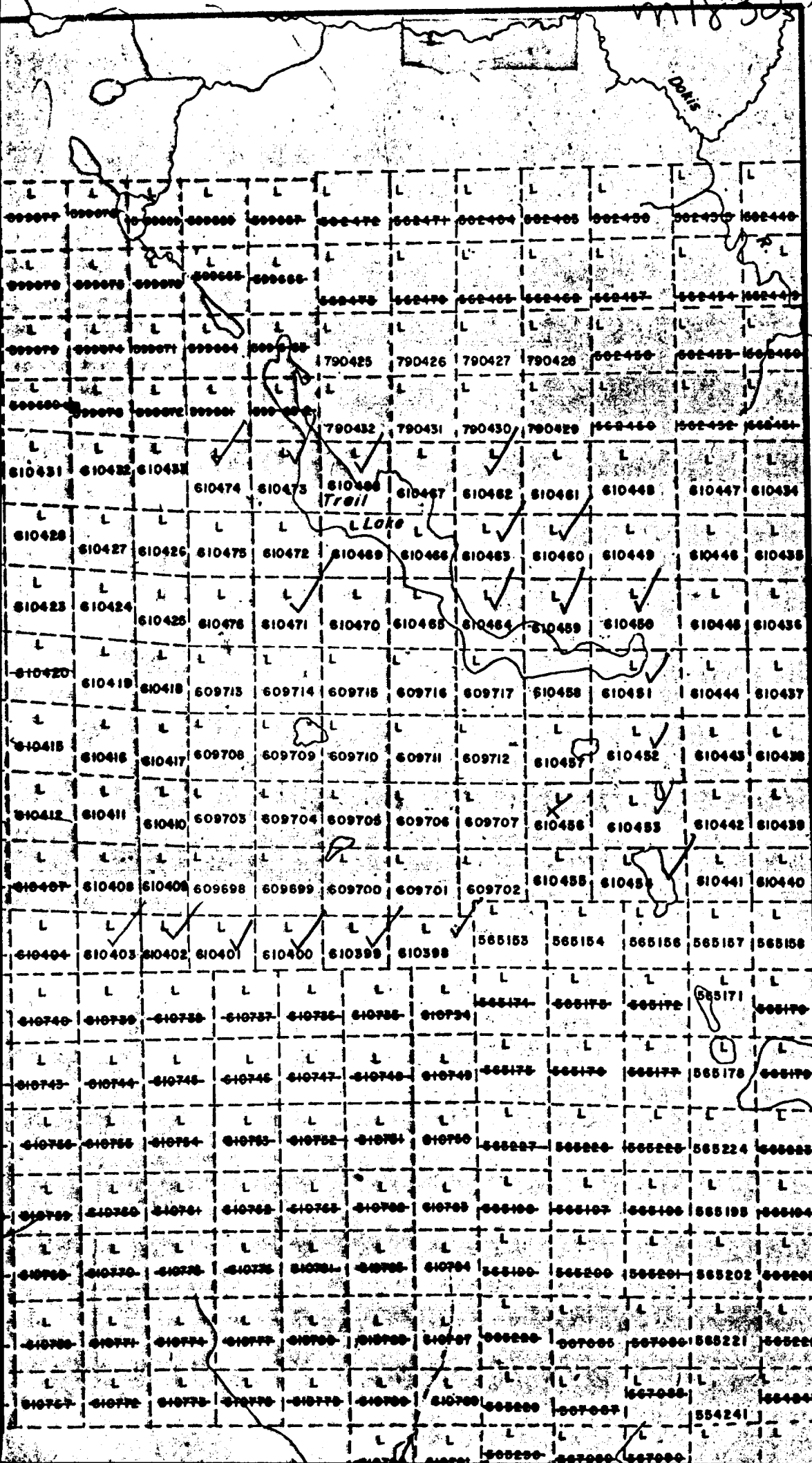


PLAN No. M-1832
 1 INCH = 1320'

M.542

moody twp

m1832

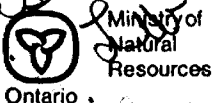


SCA

GALNA TP. M.480

PATENT
CROWN
LEASES
LOCATE
LICENS
MINING
SURFAC
ROADS
IMPROV
KING'S
RAILWA
POWER
MARSH
MINES
CANCEL

400'
shore
L.O.
confo
Subdiv
conce



Report of Work



42A16SW0065 19 MOODY

a separate form for each recorded (see table below). Use form no. 1362 "Report of Physical, Geoch...

900

Name and Postal Address of Recorded Holder: UTAH MINES LTD, 1238 Riverside Drive, TIMMINS, Ontario, P4R 1A4 #19

Prospector's Licence No.: T-793

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed 863	Mining Claim			Mining Claim			Mining Claim		
	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.
for Performance of the following work. (Check one only) <input type="checkbox"/> Manual Work <input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work. <input type="checkbox"/> Compressed Air, other Power driven or mechanical equip. <input type="checkbox"/> Power Stripping <input checked="" type="checkbox"/> Diamond or other Core drilling <input type="checkbox"/> Land Survey	L	609717	2	L	610451	38	L	610464	40
		610398	40		610452	38		610467	40
		610399	40		610453	38		610468	40
		610400	40		610454	38		610471	40
		610401	40		610459	40		610472	40
		610402	40		610460	29		610473	40
		610403	40		610462	40		610474	40
		610450	40		610463	40			

All the work was performed on Mining Claim(s): L610456

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
RESEARCH OFFICE
JAN 28 1985
RECEIVED

1 Hole, JL-84-F3, BEARING: 360°
INCLINATION: -55°
TOTAL FOOTAGE: 863'
BQ CORE,
COLLARED @ L104E, 13+00S, NORTH GRID
(SEE ENCLOSED MAPS).

LARDER LAKE MINING DIV.
RECEIVED
JAN 16 1985
AM 7 18 19 10 11 12 1 1 2 3 14 15 16 PM

RECORDED JAN 16 1985
REC. No. _____

Date of Report: Jan 14/85
Recorded Holder or Agent (Signature): Duncan McIvor

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: DUNCAN F. MCIVOR, c/o 1238 Riverside Dr, Timmins, Ont. P4R 1A4

Date Certified: Jan 14/85
Certified by (Signature): Duncan McIvor

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment	Names and addresses of owner or operator together with dates when drilling/stripping done.	
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.		
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.	Nil	Work Sketch (as above) in duplicate
Land Survey	Name and address of Ontario land surveyor.		Nil