

DIAMOND DRILLING



42A09NE0109 25 KERRS

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TOWNSHIP: Kerrs

REPORT No.: 25

WORK PERFORMED BY: Utah Mines Ltd.

<u>CLAIM No.</u>	<u>HOLE No.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
L 576946	JL-84-GSE	667	Mar/84	(1)

NOTES: (1) #99-84

HOLE NO. JL-84-G(5E)

PROJECT: JIM'S LAKE

PAGE NO: 1A OF 9

CASING COLLAR ELEV.: 5' above gr.

GROUND ELEV.:

DATE STARTED MARCH 3, 1984

REF. TO CLAIM CORNER:

COORDINATES: 300 @ 150° FROM N.
221E. 2000S

E.

DATE FINISHED: MARCH 11, 1984

SCALE: 1" = 10'

INCLINATION: -55°

BEARING: 330°

TOTAL DEPTH: 667'

LOGGED BY: D. McIVOR

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE RECY / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% RECY. SAMP. INT.	ESTI-MATED
							<p><u>226'-237' INTENSELY ALTERED, BRECCIATED DACITE</u></p> <ul style="list-style-type: none"> intensely brecciated, altered rock (presumably a dacite), comprised of brecciated angular to sub-rounded fragments of large to light yellowish green & bleached, amorphous appearing intensely carbonatized vfg dacite. frags from 1/32" to 1/4", av. 1/8"-1/4". strong alt. rims on frags (zoned) brecciated by white to gray calcite seams to 1/4" & 2% vfg diss Py (minor non-mag Pz) & light greenish gray carb rich weakly chloritic-sericitic mylonite seams. a few cherty silica seams frag/matrix ratio, av 80/20. - no preferred orientation to brecc. seams some frags, where intensely brecciated, are altered to clay minerals - v. plastic, stretched appearing larger fragments often microbrecciated a few fragments to 1" of pinkish gray v. cherty rhyolite minor hematite frac. fill in places <p><u>Frags 228'</u>: becomes more intensely brecciated, more matrix rich - frag/matrix ratio becomes 40/60, matrix becomes darker green, very chlorite-sericitic-carbonate rich 'mylonite' (pred. chl.), & irreg. darker chl. blebs (alt. frags?)</p> <ul style="list-style-type: none"> frags to 2" av 1/8", light green ser. carb. often clay min. altered, occasional cherty rhy. frag. some secondary brecciation by carb & gtz seams frags well rounded to angular, often stretched appearing - strong alt. rims on frags very wk foliation in places @ 0-10° to c.a. (prob. br. of brecc. seams) 1% to 10% diss. blebs to 1" av 1/8" in matrix, some vfg diss Py in brecciated frags & matrix, minor non-mag. fr. Py often hematized. - a few Py blebs appear fragmental larger frags are microbrecciated by thin light green ser. chl. carb. seams @ 237'. 2" zone & abundant hem-limonite frac. fill. <p><u>237'-239' INTENSELY ALTERED (CLAY MINERALS) ROCK</u></p> <ul style="list-style-type: none"> light gray to green to yellow, very soft, massive rock, altered predominantly to clay (minerals) intensely fractured (to micro-brecciated) & calcite, hematite, chlorite, sericite & minor Py fracture filling appears to be intensely altered dacite. <p><u>239'-319' ALTERED (CARBONATIZED) DACITE (BRECCIATED IN PLACES)</u></p> <ul style="list-style-type: none"> rock predominantly a vfg light beige to grayish green dacite & a weak-moderately developed 'chicken back' type crystalline frg. soft, v. bleached appearing, & intense pervasive carbonatization (alt. to calcite) (appears in places a 'carbonate rock') very crude, poorly developed foliation in a few places @ 20-35° to c.a. - highly variable. intensely macro & microfractured @ random orientations, & pred. calcite, lesser sericite, chlorite, quartz, talc, hematite, limonite frac. fill in places. calcite & gtz filled frags often to 1/4", discontinuous - dilatant zone filling, usually & 1-2% (in places 10%) vfg diss. cubic & amorphous Py. brecciated in places (as outlined below) & both autobrecc. → mylonite matrix & brecciation by secondary calc. chl. ser. seams (& gtz, sulphides) - where brecc., frags of alt. dacite from 1/4" to 2", frag/matrix ratio pred. 90/10, to 50/50 in places. weak pervasive sericite alt. appears 'spotted' in places: where large carb. rock - circles 1/4" blebs of darker, less alt. rock SULPHIDE CONTENT: av. 1% Py as vfg diss, often cubic min. associated & calcite segms, & breccia matrix, to 2-3% in places where strongly brecciated. v. trace diss. in dacite. @ 239.5' 1/2" calcite filled frac. @ 35° to c.a. & 5% vfg diss Py. from 241'-242', wkly brecciated by dk gray 1/4" chl. carb. rich mylonite seams, frags to 1/2" frag/matrix ratio 95/5 from 242.5'-243', intensely brecciated, & 70% large intensely carbonatized sub-ang. dacite frags av 1/4" (from 1/4" - 1") & 30% mylonitic matrix, some secondary brecc. by chl. calc. seams. from 243'-244.5': wkly brecc. by calcite seams & 1% vfg diss. Py. @ 244.5', 1" pred. calcite (& minor gran. gtz) 60/40 @ 20° to c.a. & 5% vfg Py from 244.5'-245', mod. brecc. by thin gray calcite seams, dacite alt. to clay min. wk. fol. present @ 246.5' @ 25° to c.a. wkly-moderately autobrecciated from 245'-251'. - abundant hem-lim frac fill frags 247'-248' from 250'-250.5' by granular gtz (60%) calcite (40%) in @ 35° to c.a. & a few thin ser. seams, surrounding host is v. brecciated by thin calcite seams & 4% Py from 251', wk. mod. brecciation both by calcite seams to 1/2" (dilatant inh.) & autobrecc. & mylonitic matrix, wk. pred. or. @ 25° to c.a., frags av. 1-3", frag/matrix ratio 98/2 to 90/10. @ 253.5' 1" sugary to d. calcite-gtz in @ 50° to c.a. & 10% vfg Py, locally minor diss. Py in host. @ 260.5' 1/4" & 2" matrix seam of 50% Py, 50% calc., - @ 262' a few 1/4" Py-calc. seams 								

CONT.

HOLE NO. VL-BA-6(EE)

CASING COLLAR ELEV.: 5' above ground GROUND ELEV.:

COORDINATES: 300' @ 150' FROM N. E.

INCLINATION: -55° BEARING: 330°

PROJECT: JIM'S LAKE

DATE STARTED: MARCH 3, 84

DATE FINISHED: MARCH 11, 84

TOTAL DEPTH: 667'

PAGE NO: 2 OF 9

REF. TO CLAIM CORNER:

SCALE: 1" = 10'

LOGGED BY: D. M. Ivor

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																		
240'	THIN SEAMS	INTENSE					<p>239:319 CONT.</p> <p>- wily brecciated intensely brecciated</p> <p>- calcite vein @ 242'</p> <p>- wily autobrecc.</p> <p>- soft, bleached dacite</p> <p>- calc vein @ 245'</p>				242'	100%	20a	239'	100%							
250'	WHERESIVE	PERVASIVE					<p>- from 244:245: num. thin (to 1/4") gte. calc. vns/bands @ 30° to c.a. E 1% vly. locally weakly</p> <p>- from 270:272.5: strongly autobrecciated, 2 gray-green dacite frags to 2" av 1/4" 1/2" to 60%.</p> <p>- from 272.5: appears spotted in places, 2 light base carb rich zones encircling darker, less alt. rock (to 1/4") locally wily dev. fol. @ 35° to 2.e.</p> <p>- @ 278.5: 1/4" gray granular calcite vns @ 40° to c.a. E 5% vly. Py, trace fuchsite @ rims</p> <p>- @ 279.7: 1/4" gray calc vns @ 40° E 10% vly. Py. @ 280.5: 1/2" calc. vns @ 28° to c.a.</p> <p>- from 282:283: locally above 1/2" Py. thin in calc-sericite-calcite rich matrix seams</p> <p>- from 284:288: moderately autobrecciated, 2 large "chick track" filling appearing carb. dacite frags to 3" (to 1/4" 1") w/ slightly dev. gray, calcite rich mylonitic matrix, frag/matrix 90/10</p> <p>- @ 287: 1" calc. 2 minor gte. chl vns @ 15° E 3% vly. Py. from 287:288: rebrecciated by calc. 2 gte. chl seams.</p> <p>- from 288:289: intensely brecciated (both auto & by calc seams), frags v. bleached, alt. to clay min.</p> <p>- from 289:290: 2" gte. 2 minor calcite vns @ 20°, locally host rock is v. brecciated by dk. green mylonitic seams, frags to 1/2" frag/matrix ratio 80/80</p> <p>- from 291:292: 3" irreg. gray calcite rich bands @ 25° E 5% Py, as blebs to 1/2" @ rims & vly. diss min.</p> <p>- from 293.5:294: calcite seams @ 30° to 1" 5% of rock E 5% vly. Py, wily brecc. rock</p> <p>- from 296.5:297: num. 1/2"-1" irreg. gray calcite rich seams E 5% vly. Py brecciated rock</p> <p>- from 298:299: intensely brecc. @ 50° to c.a. E calc. fr. locally. @ 298-298.5: host contains 5% vly. Py as blebs to 1/4"</p> <p>- rock becomes gradationally less carbonated from 290-297</p> <p>- from 299:299.5: num. thin (to 1/4") calc. & silica seams wily brecc. rk.</p> <p>- w/ fol. @ 35° to c.a. from 300:303.</p> <p>- @ 302: 1" gte. calc. (2 minor gte. & ser.) vns @ 35° to c.a. E 10% vly. by diss min. & blebs to 1/4" @ rims, mod. str. ser. alt. of host @ rims (may be trace hulk).</p> <p>- from 302.5:303.5: diss. Py. blebs (calcite & anorthite) to 1/4" & 5% in part, 2 num. thin gte. calc. veinlets</p> <p>- from 303.5: becomes light green, slightly harder, less alt., 2 only patchy w/ mod. carbonatization, remains wily brecciated by calc. & gte. chl seams & autobrecciated in places.</p> <p>- wily autobrecciated from 307:309; 2 small (to 1/4") angular dacite frags in mylonitic matrix, (appears almost a graywacke) - also gte. calc. fragments.</p> <p>- from 309:313: by gray seams to 1/2" of mylonitic aph. carb. & silica. chl rich rock, 2 1% Py as brecciated blebs in matrix. frags to 3"; frag/matrix ratio 95/5. - also some rebrecc. by calcite seams.</p> <p>- @ 314.3: 1" gray calc. vns @ 70°. locally from 314-319: wily autobrecciated & brecc. by gray calc. & gte. seams, frag/matrix ratio 90/2</p> <p>- arbitrary contact E underlying, intensely altered, brecciated rock</p> <p>319:350.4' INTENSELY ALTERED, BRECCIATED DACITE (PRESUMABLY)</p> <p>varying degrees & types of alteration & brecciation;</p> <p>from 319:322' comprised of 80% fragments, of dk. grayish green, soft, strongly altered (carb. chl. ser. & in places to clay min.) dacite to andesite (?) frags are sub-rod to sub ang, av 1-2", but from 1/16" 3" with a darker gray-green aph. matrix of chl-carb rich mylonitic rock - some secondary calcite & gte. vns retrace rock - weak prep. orientation, of frag. seams & frags in places @ 30° to c.a. - a few lighter white to base intensely bleached fragments - also dk. gray cherty dyolite fragments (appears like a ser. breccia in places)</p> <p>Sulphides: Py to 5% as blebs 1/16"-1/2" occ. fragmental appearing, occ. in matrix only.</p> <p>- from 324.5:325: num. 1/2" scuffing calcite & minor gte. vns @ 70-90° to c.a.</p> <p>- from 327:328: frag/matrix ratio becomes 60/40, 2 av. frag size much smaller, av. 1/4" 1/2" to 2"; fragments pred. yellowish green soft anorthite appearing intensely alt. (to ser. carb. & in places to clay minerals) - lined alt., stonger @ rims - frags often microbrecciated. pred. angular to sub-angular</p> <p>- matrix becomes dk. & light gray both soft chl-carb. ser. rich mylonitic rock & in places cherty silica (matrix silicified?)</p> <p>- sulphides - 3 to 5% as Py. blebs to 1/2" in matrix, often brecciated. some vly. diss min. in mat.</p>			244'	100%	244'	100%	245'	100%	245'	100%	250'	100%	251'	100%	
260'	BRECCIATED						<p>locally brecc. by Py-calc seams</p> <p>ALTERED (CARBONATIZED) DACITE</p> <p>intensely brecc. by calcite seams</p>							256'	100%	256'	100%					
270'	FRACTURE						<p>strongly autobrecciated</p> <p>gray calcite vns @ 274' & fuchsite @ rims</p>							266'	100%	266'	100%					
280'	FILLING						<p>autobrecciated</p> <p>intensely brecciated</p> <p>calcite vns bearing calcite veining</p> <p>calcite veining E 5% Py</p> <p>rock brecc. by Py-calcite seams</p>							267'	100%	267'	100%					
290'							<p>autobrecciated</p> <p>intensely brecciated</p> <p>calcite vns bearing calcite veining</p> <p>calcite veining E 5% Py</p> <p>rock brecc. by Py-calcite seams</p>							271'	100%	271'	100%					
300'							<p>autobrecciated</p> <p>intensely brecciated</p> <p>calcite vns bearing calcite veining</p> <p>calcite veining E 5% Py</p> <p>rock brecc. by Py-calcite seams</p>							276'	100%	276'	100%					
							<p>autobrecciated</p> <p>intensely brecciated</p> <p>calcite vns bearing calcite veining</p> <p>calcite veining E 5% Py</p> <p>rock brecc. by Py-calcite seams</p>							278'	100%	278'	100%					
							<p>autobrecciated</p> <p>intensely brecciated</p> <p>calcite vns bearing calcite veining</p> <p>calcite veining E 5% Py</p> <p>rock brecc. by Py-calcite seams</p>							282'	100%	282'	100%					
							<p>autobrecciated</p> <p>intensely brecciated</p> <p>calcite vns bearing calcite veining</p> <p>calcite veining E 5% Py</p> <p>rock brecc. by Py-calcite seams</p>							283'	100%	283'	100%					
							<p>autobrecciated</p> <p>intensely brecciated</p> <p>calcite vns bearing calcite veining</p> <p>calcite veining E 5% Py</p> <p>rock brecc. by Py-calcite seams</p>							287'	100%	287'	100%					
							<p>autobrecciated</p> <p>intensely brecciated</p> <p>calcite vns bearing calcite veining</p> <p>calcite veining E 5% Py</p> <p>rock brecc. by Py-calcite seams</p>							291'	100%	291'	100%					
							<p>autobrecciated</p> <p>intensely brecciated</p> <p>calcite vns bearing calcite veining</p> <p>calcite veining E 5% Py</p> <p>rock brecc. by Py-calcite seams</p>							292'	100%	292'	100%					
							<p>autobrecciated</p> <p>intensely brecciated</p> <p>calcite vns bearing calcite veining</p> <p>calcite veining E 5% Py</p> <p>rock brecc. by Py-calcite seams</p>							293'	100%	293'	100%					
							<p>autobrecciated</p> <p>intensely brecciated</p> <p>calcite vns bearing calcite veining</p> <p>calcite veining E 5% Py</p> <p>rock brecc. by Py-calcite seams</p>							294'	100%	294'	100%					
							<p>autobrecciated</p> <p>intensely brecciated</p> <p>calcite vns bearing calcite veining</p> <p>calcite veining E 5% Py</p> <p>rock brecc. by Py-calcite seams</p>							296'	100%	296'	100%					
							<p>autobrecciated</p> <p>intensely brecciated</p> <p>calcite vns bearing calcite veining</p> <p>calcite veining E 5% Py</p> <p>rock brecc. by Py-calcite seams</p>							298'	100%	298'	100%					
							<p>autobrecciated</p> <p>intensely brecciated</p> <p>calcite vns bearing calcite veining</p> <p>calcite veining E 5% Py</p> <p>rock brecc. by Py-calcite seams</p>							300'	100%	300'	100%					

CONT.

HOLE NO. 11-84-GSE

PROJECT: JIM'S LAKE

PAGE NO: 3 OF 9

CASING COLLAR ELEV.: 5' above ground GROUND ELEV.:

DATE STARTED: MARCH 3, 1984

REF. TO CLAIM CORNER:

COORDINATES: 300' @ 150' FROM N. E.

DATE FINISHED: MARCH 11, 1984

SCALE: 1" = 10'

INCLINATION: -55° BEARING: 330°

TOTAL DEPTH: 667'

LOGGED BY: D McIVOR

SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS: NOTE: UNIT FROM 319'-350.4' - may be a massive slumped unit, as appears very 'sedimentary' in places.	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'	BRECCIA	WEAK	MODERATE				cat in 2 to 4% 319'-350.4' cont. - very crude orientation in few places @ 0°-20° to c.a. - show gray-white calcite veins/seams to 1/4" - show less alt. darker green, dac. and frags. - sed. breccia appearing in places - from 324'-324.5' several semi-massive fly bands by 1/8" x 2-3" contorted, @ 0-40° to c.a. - from 324'-325' rock heavily intensely brecciated. frags. 1/8" to 1/4". frag. matrix ratio 50/50 - begin seeing 'stromatolitic' txt & strong silica-carb alt. overprinting less alt. chl. rich matrix in spotted pattern - from 325'-327' intensely brecciated - microbrecciated, & 'stromatolitic' txt. strongly zoned alt. of frags to yellow clay min. - matrix pred. gray siliceous to carb. rich rock - numerous large thick tensional type fractures infilled with calcite, occ. qtz - from 327'-333' - auto-brecciated dacite, comprised of 70% fragments of soft light grayish-green wily ser-carb. clay min. alt. dacite, av 1/8" (range from 1/32" to 2"). angular to sub-rounded, set in a gray mylonitic matrix of similar comp. - weakly dev. foliation @ 20° to c.a. - show white v. bleached frags, show v. hard cherty frags - v. sed. breccia appearing in places & different lith frags & some bedding? (slump breccia?) - from 332'-333' numerous 1/2"-1" black cherty frags & dac. frags, locally appearing conglomeratic & bd. @ 20°, locally fly blebs to 1/4" & 3/8" - overall sulphide content: 1% Py, as diss blebs in matrix. - from 333'-338.5' - less intensely brecciated dacite, becomes 85% fragments/15% matrix to 95% frags/5% matrix in places - frags range from 1/8" to 2-3", av 1/2", are vly light greenish gray rel. soft, wily sericified dacite (& chicken light type, alline txt) - matrix of sparifer comp. mylonitic - intensely fractured, & calc. minor chl. qtz trace fill - @ 333' 1/4" qtz-calc vn @ 25° - @ 333.8' 2" intensely brecciated zone, & locally fly blebs to 1/4" & 5/8" - from 334'-336' locally intensely auto-brecciated, frag. matrix ratio 70/30, frags av 1/4" - @ 336.5' 1/2" qtz-calc vn @ 70° to c.a., & fract. hch. fly - overall sulph. content - trace by diss fly, in matrix. - from 338.5'-340' becomes v. bright light green, mod. sericitized, v. bleached appearing by (chicken track txt) dacite, wily fol. @ 25° to c.a. - strongly fractured, @ no pref. or., & qtz-calc. minor chl. trace fill. (some tensional type 1/4" infilled traces) - trace by diss. fly - @ 339' 1/2" qtz (c minor calc) vn @ 25° - @ 340' 2" v. thin, bedded appearing qtz & hd. white calc-mag. vn @ 35° to c.a., & num. thin bright green sericite seams. 11 fol. - from 340'-345' becomes intensely brecciated, altered, frag. matrix ratio averages 70/30, but highly variable - frags - dk. grayish green, very soft, v. alt. (to clay min) dacite, & remnant chicken track txt, & few white, bleached calc frags to 3" to 1/2"-1" (to less than 1/32") - microbrecciated in places by thin calcite & occ. qtz seams - no preferred orientation/foliation - matrix pred. a darker gray-green mylonitic material, soft, carbonated, fly, & 15% fly as blebs (also brecciated) to 1/4" & some vly diss min - fly appears fragmental in places - show thin scuffing calc & qtz-calc vn to 1/4" - few black argillaceous frags to 1/2" - mixed frag lithologies gives 'sed. breccia' appearance - from 341'-341.5' locally fly in matrix to 30% - from 342'-347.5' - becomes fly, bright light green (weak-mod ser. alt) to bags (bleached) rel. hard, siliceous (may be patchy stibitization) dacite, & fly 'chicken track' type illite? txt. - intensely macro micro fractured @ random ori. & pred qtz & calcite-magnetite? trace fill (tensional type frags to 1/4") - minor chl. trace fill. - wily carbonated in places - trace by diss fly & fly & trace fill - gradationally becomes brecciated towards 347.5' - from 347.5'-348.2' intensely brecciated, frag. matrix ratio 60/40 - frags are gray-green, fly, soft microbrecc. alt. dacite, show white, bleached carb. dac. frags, show black silt. arg frags, matrix a gray-black very carb rich mylonite, & fly to 10% as blebs to 1" breccia, fragmental appearing in places. - from 348.2'-350.5' - light bright green (mod. ser. alt) mod. carbonatized dacite, wly fol @ 30° to c.a., strongly microbrecciated - fractured, @ 30° to c.a., & calcite, qtz & sericite infilling of traces to 1/4" very soft, minor chl. trace fill - appears almost fragmental - @ 348.2' 1" thinly bedded qtz-calc vn @ 30° - becomes bright yellow by 350.5' - tr. by diss fly - irreg. slumped appearing contact @ 25° to ca & underlying graphitic unit.															
310'	MATRIX	WEAK	STRONG				weakened auto-brecciated			19%	306'	100%	80	290'	100%							
320'	STRONG	STRONG	STRONG	CLAY MIN			60% carb-dl. ser alt. dac frags. in mylonitic matrix - intensely brecc. 60% alt. frags. 40% matrix			5%		100%		329'	100%							
330'	WEAK	WEAK	WEAK				INTENSELY ALTERED BRECCIATED DACITE			19%		100%		333'	100%							
340'	MATRIX	WEAK	MATRIX	CLAY			only wily brecciated - bright light green sed. dacite - intensely brecciated - bleached dacite			TR.	336'	100%		338.5'	100%							
350'	WEAK	WEAK	WEAK				bright light green sed. dacite sericite-calcite seams, slumped contact 60 @ 25-70° MINERALIZED GRAPHITIC ARGILLITE			15%		100%		345'	100%							
360'	WEAK	WEAK	WEAK				10% thin silica & carb seams			10%	356'	100%		356'	100%							

HOLE NO. JL-B4-G6E

PROJECT: JIM'S LAKE

PAGE NO: 6 OF 9

CASING COLLAR ELEV.: 5' above ground GROUND ELEV.:

DATE STARTED: MARCH 3.84

REF. TO CLAIM CORNER:

COORDINATES: 300' @ 150' FROM N E.
122E, 206

DATE FINISHED: MARCH 11.84

SCALE: 1" = 10'

INCLINATION: -55° BEARING: 330°

TOTAL DEPTH: 667'

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'	F R A C T I O N	W E A K	W E A K				<p><u>482-487' CONT.</u></p> <p><u>EUCHSITE BEARING POR. DACITE</u></p> <ul style="list-style-type: none"> @ 481: 1" qtz in @ 60° & num thin ser. seams, & 2" strongly bleached, sericitized alt. halo locally from 485-484: softer, strongly microfractured, v. granular appearing, only wtkly porphyritic. @ 483: 1/4" qtz vn @ 60° & 2" yellow, bleached, sericitized alt. halo & a few small diss. fuch. blebs. from 481-482.5: v. bleached appearing, pale yellowish green & mod. ser. alt., num thin qtz & qtz-calc seams to 1/4" @ rnd. or. Num. diss. fuchsite blebs to 1/8" @ 485: 2" breccia zone, rock brecc. by thin black chl. seams, frags to 1/4" fragment matrix ratio 40/60. @ 475: 6" wtkly brecciated zone by milky hd. magnesite & minor qtz veining. from 478.5-479.5: bleached, light green sericitized zone arbitrary contact & underlying more porphyritic unit. 		2%	486'	100%	8Q	480'	100%					
480'	A F E W W R K L Y A L T. Z O N E S	A F R A C T I O N					<p><u>489-510' DACITE TO ANDESITE PORPHYRY</u></p> <p>rock comprised of a dark grayish-green vly-aph. dacitic to andesitic groundmass & 30 to 40% phenocrysts of subhedral to anhedral light green wtkly epidote; sericite altered fspar, to 1/8-1/2" & a few chl. blebs (all. anhyd. pheno's.?) - more dacitic than andesitic for the upper part.</p> <ul style="list-style-type: none"> v. weak foliation (fsw banding; sch.), @ 35° to c.a. as exhibited by alignment of chl. blebs & phenocr. a few small (1/4") diss. calcite blebs weakly to moderately fractured @ random orientations, & prod. calc. qtz. some chl-ser frac. fill relatively hard, fresh, glow softer wtkly chl-ser alt. zones indistinct contacts between pheno's & groundmass occasional large fragmental appearing chl. alt. blebs or small fspar-gtz blebs SULPHIDE CONTENT: 0.5 to 1% Py, as by diss. min. of fracture filling - tr. fsp. @ 490.3: 1/2" hard white, carb. vn filled frac. @ 20° to c.a., & large (1/2") bright green fuchsite-carb. blebs & tr. by diss. by. @ 493.6: 1" qtz-calc vn @ 60° to c.a., & trace diss. Py & fsp., locally from 493-494: num thin qtz-calc filled frac., & light green sericite, rich alt. halo's to 1/4" @ 494.7: 1" of pink calcite bleb & trace diss. fuchsite & Py. locally minor fuchsite ass. & calc. filled frac. @ 497.2: 1/4" calc. v. minor qtz-chl-ser. vn @ 70° to c.a. from 497.2-498: 1/4" calc. minor qtz unfilled frac @ 20° to c.a., & num 1/8-1/4" fuch. blebs @ rims. from 498-498.3: brecciated, by qtz-carb seams to 1/2" @ 40° to c.a., locally host rock is 'bleached' soft, & mod. ser-carb. alt. from 501-501.5: strongly fractured, & fuch. bearing qtz-calcite frac. filling. @ 504: 1" irreg. carb. chl. rich bleb & 2% Py. @ 509.5: a few 1/4" calc. seams & tr. fuch. & Py @ rims. arbitrary contact & underlying altered similar lithology <p><u>510-510.7' INTENSELY ALTERED DACITE TO ANDESITE PORPHYRY (PRESUMABLY)</u></p> <ul style="list-style-type: none"> gradational contacts @ 510' & 510.5' & less alt. dacite to andesite porphyry rock consists prod. of intensely bleached, light green to beige, softer, strongly sericitized weakly carbonatized groundmass & wtkly remnant porphyritic but in places (white to pale green fspar pheno's) highly variable appearance from recognizable altered porphyry to completely bleached sericitized rock numerous small chl. rich blebs (all. pheno's?) moderately fractured, to intensely microfractured in places @ random or. <p><u>DAC-AND POR.</u></p> <ul style="list-style-type: none"> SULPHIDE CONTENT: to 1% Py, as by diss. min., frag fill, & ass. & secondary qc veining & filled fractures. minor fuchsite in places as small blebs proximal to qc veining & filled fractures. @ 510: 1" v. fragmental appearing fuchsite bleb (xenolith?) @ 510.5: a few 1/4" qtz-calc vn @ 70° to c.a. - from 510-511: becomes increasingly softer, more alt. from 511-512: groundmass completely bleached, sericitized, wtkly carbonatized, grayish-green, remnant pheno's of similarly alt fspar & chl. blebs lends granular, clastic appearance to rock, a few Py-calc filled frac. from 512-512.5: v. soft, strongly ser-chl. alt., num. thin qtz & carb (calc & mag) vns @ 70-90° to c.a. & 1/4" trace fuchsite frac. fill from 512.5-514.5: intensely microfractured @ 0-20° to c.a., v. soft, ser. alt., num. pink calc & qtz vns & filled frac. to 1/4" from 514.5-520.5: prod. beige to light green intensely alt. rock, mod. fol. @ 30°-60° & 30° to c.a., rel. soft, & v. strong sericite & carbonate, alteration, v. amorphous appearing, v. wtkly remnant por. fill in places, & small white fspar pheno's, in places v. clastic appearing & fspar & chl. blebs to 1/8" intensely fractured by brecciated in places, & prod. qtz-calc. fill from 516-516.5: brecciated by thin qtz-carb seams, host is intensely carbonatized, beige @ 516.2: 1" qtz bleb, from 517-517.5: brecciated by qtz stringers, v. beige, carb. host. from 517.5-518.5: completely alt. to yellowish-green carbonate rock, wtkly brecciated by num. thin qtz stringers, num. (to 1/4") small diss. fuchsite blebs - @ 517.7: 2" qtz vn @ 90° granular appearing & 5% to small dext(?) blebs - frags. 		0.5%	505'	100%	508'	100%						
500'	M I N O R I	V E A K S T R O N G	W E A K S T R I	B L E A C H E D			<p><u>INTENSELY ALT. DAC-AND POR.</u></p> <ul style="list-style-type: none"> brecc. by qc vns wk remnant pheno's. completely alt. to carb. & 1% fuchsite. 		1%	515'	100%	510'	100%	514.5'	100%	517.5'	100%	520.7'	100%
520'	W R K	W R K	F R A C T I O N				<p><u>DAC-AND POR.</u></p> <ul style="list-style-type: none"> qc vns qc vns to 20% 1% diss fuch. 		0.5%	532'	100%	518.5'	100%	524'	100%	527'	100%		
530'	F R A C T I O N	W E A K	F R A C T I O N				<p><u>DACITE TO ANDESITE PORPHYRY</u></p> <ul style="list-style-type: none"> qc vn & diss fuch @ rims qtz vn qc vns & fuch bearing alt. halo 		1%	532'	100%	536'	100%	537'	100%	540'	100%		
540'										To 542'									

CASING COLLAR ELEV.: 5' above ground GROUND ELEV.:

DATE STARTED: MARCH 3, 84

REF. TO CLAIM CORNER:

COORDINATES: 300' @ 150° FROM N. E.

DATE FINISHED: MARCH 11, 84

SCALE: 1" = 10'

INCLINATION: -55° BEARING: 330°

TOTAL DEPTH: 667'

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													
600	WEAK	WEAK	WEAK				<p>527-565 CONT.</p> <p>chl. alt. xenolith phenocrysts locally pink</p> <p>chl. alt. xenolith calc vns with alt. dacite groundmass fspar pheno's to 30%</p> <p>chl. alt. xenolith pink calcite seams</p> <p>FELDSPAR PORPHYRY</p>				100%	80	665'	100%			
610	PERVASIVE	PERVASIVE	PERVASIVE				<p>565-577.5 WEAKLY ALTERED PORPHYRITIC DACITE TO ANDESITE</p> <p>rock predominantly a light green, wtkly sericitized (to chl. alt. in places) dacite to andesite - moderately to weakly porphyritic, & indistinct light green soft ser. alt. fspar pheno's to 1/4" & 10% - numerous small chl. blebs. v. fragmental appearing in places (xenoliths?) - moderately fractured, large prominent set @ 70-90° to c.a., & calcite, qtz. ser. chl. frac. fill.</p> <p>wk. patchy carbonatization in places, & to diss. calcite</p> <p>SULPHIDE CONTENT: 1% Py, as diss. blebs (often cubic), to 1/16"</p> <p>arbitrary gradational contacts & more pheno'x rich, fresher rock @ 565.5' & 577.5'</p> <p>from 565.5-567.5' alt. wtkly 1/4" chl. alt. v. fragmental appearing blebs - @ 566.5' 1" qtz. calc. vns @ 70°</p> <p>@ 568.5' locally more chl. calc. alt., wtkly 1/4" calcite filled frac. xcut fol. @ 30° - @ 568.5' 1" calc. vns @ 568.8' 1/4" calc. vns @ 80°, @ 569.8' 1" qtz. calc. vns @ 35°</p> <p>from 569.8' v. fragmental appearing, & numerous large (to 1") chl. alt. fragments (xenoliths?), wk. por. fol. lighter green, stronger sericite alt., well dev. fol. @ 35° to c.a.</p> <p>@ 572.5' 1" band of 1/4" qtz. calc. vns xcut fol. @ 60°</p> <p>@ 573.5' 1" band of 1/4" qtz. calc. vns to ca. of dk green chl. rich vly rock & numerous thin seams & filled fractures of vly dk brown sulph. (Py? sph?)</p> <p>from 573.5' 575' num. large (to 1") fragments of chl. alt. rock (xenoliths)</p> <p>@ 574.5' & 574.8' 1/4" qtz. calc. vns @ 35° & 90°</p> <p>from 575-575.5' zone of light green, intensely sericitized vly. aph. rock, brecciated by thin chl. carb. seams & intense halos to 1/2" around traces of vly Py min. to 20% of rock - some concordant @ 35° to ca. (?)</p> <p>from 575.5' 577.5' wtkly carbonatized & 10% v. small (1/16") diss. calc. blebs - locally v. granular/elastic appearing, & large (to 1/2") angular chl. alt. frags - xenoliths</p>	0.5%	100%	614'	617'	100%					
620	ALTERATION OF GROUNDMASS	ALTERATION OF GROUNDMASS	ALTERATION OF GROUNDMASS				<p>577.5-582.5' DACITE PORPHYRY (FELDSPAR PORPHYRY)</p> <p>from 585' groundmass becomes andesitic</p> <p>chl. alt. xenolith</p>				100%		618'	100%			
630							<p>calcite seams</p> <p>chl. alt. xenolith</p>				100%		625'	100%			
640							<p>582.5-587' PORPHYRITIC DACITE TO ANDESITE</p> <p>1/4" gray-green, ductile to andesite groundmass, & 20% indistinct light green wtkly sericitized fspar & chl. alt. more mafic pheno's to 1/4" - wtkly fol. @ 35° to c.a.; - numerous v. fragmental/elastic appearing chl. blebs to 1/4" - wk ser. chl. alt. of groundmass in places</p> <p>moderately fractured, & sets @ 30-40° & 80-90° pred. calcite, minor chl. qtz. frac. fill.</p> <p>0.5% diss. cubic & amorphous Py blebs to 1/16"</p> <p>@ 586.5' 1/4" pink calcite, minor qtz. chl. vns @ 80°</p> <p>arbitrary gradational contact & underlying porphyry</p> <p>587-587.5' DACITE TO ANDESITE PORPHYRY</p> <p>as above from 577.5' 582.5', & 0.5% diss. Py</p> <p>589.5' 597' WEAKLY PORPHYRITIC DACITE TO ANDESITE</p> <p>1/4" light gray to gray dac to and. groundmass, & 10% indistinct light green fspar pheno's - numerous large (to 1") angular xenolithic fragments of chl. alt. rock, num. smaller chl. blebs</p> <p>wk. fol. @ 35° to c.a., wtkly to mod. fractured, & sets @ 10° & 80-90° to c.a., & pred. calc. minor qtz. frac. fill. - wk. porv. chl. alt. of groundmass in places, minor diss. calc. in places.</p> <p>0.5% diss. Py</p> <p>@ 595' 1/4" pink calc. & minor qtz. chl. vns @ 60°, @ 596' 1/4" qtz. chl. calc. vns & 5% Py @ 80°</p>	0.5%	100%	635'	635'	100%					
650							<p>597-597.5' WEAKLY PORPHYRITIC DACITE TO ANDESITE</p> <p>1/4" light gray to gray dac to and. groundmass, & 10% indistinct light green fspar pheno's - numerous large (to 1") angular xenolithic fragments of chl. alt. rock, num. smaller chl. blebs</p> <p>wk. fol. @ 35° to c.a., wtkly to mod. fractured, & sets @ 10° & 80-90° to c.a., & pred. calc. minor qtz. frac. fill. - wk. porv. chl. alt. of groundmass in places, minor diss. calc. in places.</p> <p>0.5% diss. Py</p> <p>@ 595' 1/4" pink calc. & minor qtz. chl. vns @ 60°, @ 596' 1/4" qtz. chl. calc. vns & 5% Py @ 80°</p>				645'	100%		646'	100%		
660							<p>597-597.5' WEAKLY PORPHYRITIC DACITE TO ANDESITE</p> <p>1/4" light gray to gray dac to and. groundmass, & 10% indistinct light green fspar pheno's - numerous large (to 1") angular xenolithic fragments of chl. alt. rock, num. smaller chl. blebs</p> <p>wk. fol. @ 35° to c.a., wtkly to mod. fractured, & sets @ 10° & 80-90° to c.a., & pred. calc. minor qtz. frac. fill. - wk. porv. chl. alt. of groundmass in places, minor diss. calc. in places.</p> <p>0.5% diss. Py</p> <p>@ 595' 1/4" pink calc. & minor qtz. chl. vns @ 60°, @ 596' 1/4" qtz. chl. calc. vns & 5% Py @ 80°</p>				655'	100%		To 666'	100%		

HOLE NO. JI-84-65E

PROJECT: JIM'S LAKE

PAGE NO: 9 OF 9

CASING COLLAR ELEV.: 5' above gr. GROUND ELEV.:

DATE STARTED: MARCH 3. 84

REF. TO CLAIM CORNER:

COORDINATES: 300' @ 130' FROM N. E. 2212E. 205

DATE FINISHED: MARCH 11. 84

SCALE: 1" = 10'

INCLINATION: -55° BEARING: 330°

TOTAL DEPTH: 667'

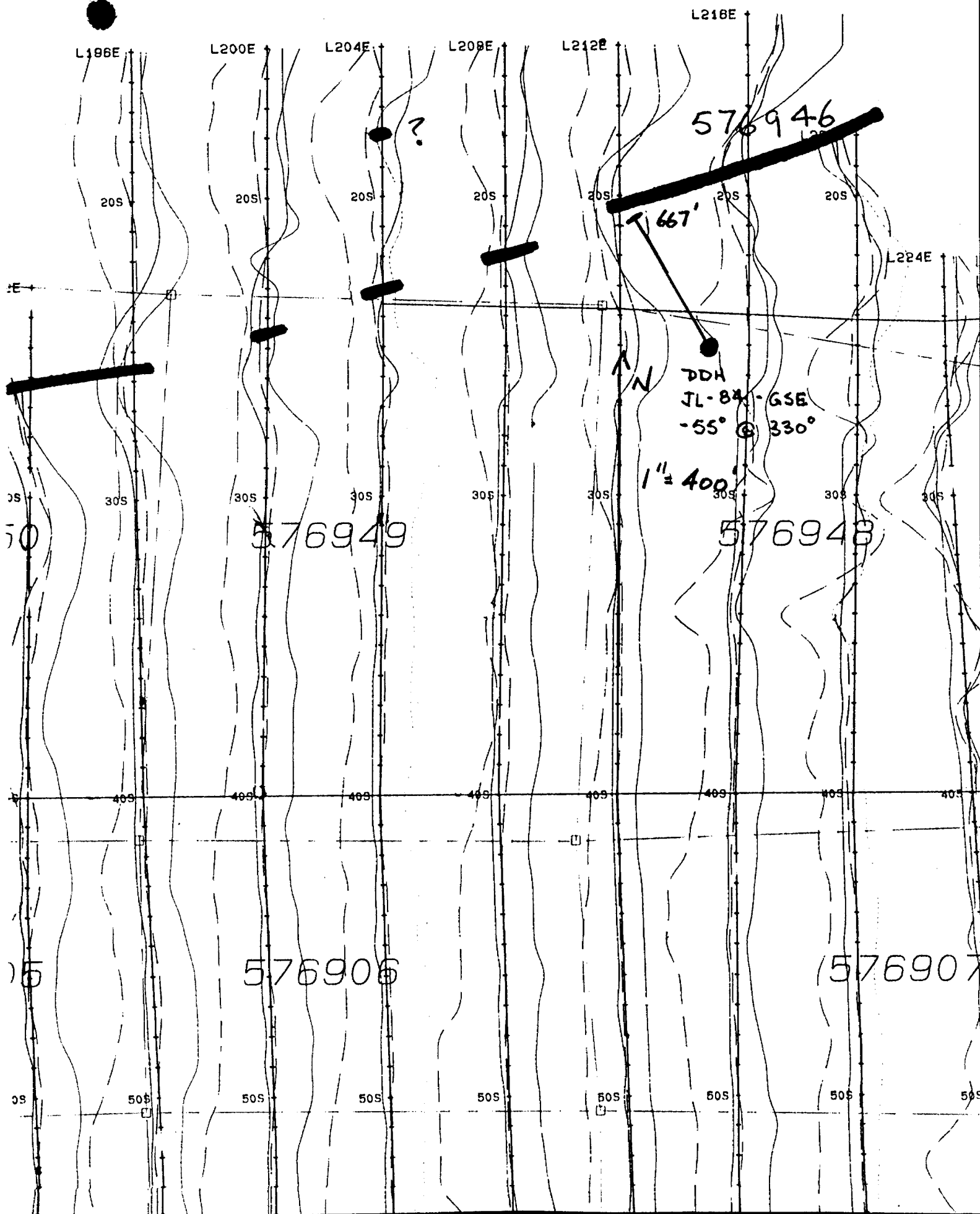
LOGGED BY: D. McIVOR

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												
660	WEAK	WEAK	WEAK				<p>597'-667' FELDSPAR PORPHYRY</p> <p>rock comprised pred. of a v. to aph. dark grayish green, relatively hard, relatively siliceous 'dacitic' type groundmass - very mottled appearing & w/ pervasive ser-chl & carbonate alteration (irreg diss black & thin seams throughout groundmass) - massive to v. weakly tabular in a few places @ 35' to 60' to c.a.</p> <p>24. 20% phenocrysts of fsp. in places light green (w/ky ser-epidote: alt.) & in places pink (2 minor diss. hem - Ksp?) - to 1/8" range from 1/16" - 1/8", pred. subhedral to anhedral, a few laths & hexagonal euhedral phenocr.</p> <p>numerous small chl. flecks (alt. phenocr.?) from 1/16" - 1/8" - in places chl. alt. 'rock fragments' to 1"; landing a v. clastic appearance to rock - xenoliths.</p> <p>phenocr. to 50-60% of rock in places</p> <p>weakly to moderately fractured, z sets @ 40° & 70-90° to c.a., z pred. calcite, minor gte-chl frac. fill</p> <p>few gte phenocrysts</p> <p>SULPHIDE CONTENT: 24 0.5% Py, tr. Cpy, as diss cubic & amorphous blebs to 1/16" & as z calcite fracture filling.</p> <p>@ 597.5; 1" xenolith of chl-carb alt. rock, locally several 1/8"-1/4" similar chl-carb. 'blebs', usually sub-rounded, landing v. conglomeratic appearance to rock. - locally w/ky fol. @ 40°.</p> <p>from 602-609; locally phenocrysts are discoloured pink to red, landing 'sybitic' appearance to por., locally some hematite & pink calcite frac. fill.</p> <p>@ 603.5; 1" chl. alt. xenolith.</p> <p>@ 606.5; 1/8" calc. hem. filled frac @ 20° to ca z thin Cpy seams @ rims.</p> <p>from 606-606.5; v. fractured, z orange (hem. rich) calcite filled frac/blebs to 2"; a few massive blood red hematite blebs. z xline Py to 19%. locally phenocr. very pink.</p> <p>@ 607.5; 1/2" chl-carb alt. vol. xenolith - @ 608; 'a few small Cpy blebs along fractures.</p> <p>from 608-609; 1/4" calcite filled frac @ 20°. locally num 1/8" chl-carb alt. xenoliths.</p> <p>@ 609.5; 1/4" gte pink xline calcite-chl in @ 80° to ca. - @ 610.2; 1/2" gte-calc-ser-chl in @ 60° - locally from 609-612.5; fol @ 40°. lighter, softer, more strongly chl-carb alt. groundmass, z 19% diss. Py.</p> <p>@ 616.5; 'a few 1/8" chl-carb gte filled frac @ 10° & small (1/32") Cpy blebs to 0.25% over 6".</p> <p>@ 617.3; 3" chl alt xenolith.</p> <p>@ 617.5; 1/4" calcite z minor gte-chl in @ 90° to c.a., z 1/8" ser. rich yellow alt. halo</p> <p>@ 617.8; 1" calcite-minor gte-chl-ser in @ 90° z thin 1/16" Py seams @ rims.</p> <p>@ 620; numerous 1/8" pink calcite-minor gte filled frac @ 30°, locally strongly frac, locally phenocr. are pink</p> <p>from 620-635; numerous (to 10%) small chl. blebs to 1/8", locally more carbonatized, z 5% diss. calc.</p> <p>@ 626; 1/4" calc in @ 60°.</p> <p>from 630-631; num. 1/8" calc filled frac @ 40° to c.a. - @ 634; 1/8" pink wuggy calc. in @ 70°</p> <p>@ 634.8; a few 1/8" pink calcite z minor gte, chl ser. vns @ 55°.</p> <p>@ 637.4; 1/2" pink calcite z minor gte-chl-ser in @ 50°</p> <p>@ 640; 1/2" chl-carb alt. mat. vol. xenolith - @ 644.5; 1" chl alt. mat. vol. xenolith.</p> <p>from 635-667; groundmass darker green, more 'andesitic'</p> <p>@ 657.3; 1/2" calcite-minor gte in @ 55° to c.a., locally diss. cubic Py to 19%</p> <p>@ 660; 1/4" calcite z minor gte-chl-ser in z 19% Py @ rims, @ 70° to ca.</p> <p>@ 665.5; 1/2" calcite-minor gte in @ 70°, @ 666.5; 1/2" pink calcite-gte in @ 60° to c.a.</p>	0.5%	666' 667'	100%	663' 667'	100%				

HOLE ENDS @ 667'

89 SAMPLES SPLIT FOR ASSAY.

Duncan McIVOR
MARCH 11. 1984.



L216E

L196E

L200E

L204E

L208E

L212E

L224E

20S

20S

20S

20S

20S

20S

20S

E

30S

30S

30S

30S

30S

30S

30S

30S

30S

50

576949

576948

DDH
JL-84-GSE
-55° @ 330°

1" = 400'

667'

576946

576906

576907

50S

50S

50S

50S

50S

50S

50S

50S

50S



42A09NE0109 25 KERRS

900

Galna Moody Knox (Kerrs Twp)

File Mining

Name and Postal Address of Recorded Holder
UTAH MINES LTD, 1238 Riverside Drive, Timmins, Ont. T-793

P4R 1A4 **KERRS TWP.**

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed 667	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	554250	19	L	567068	40	L	565032	40
		554252	40		567069	40		565033	8
		567078	40		567070	40			
		567079	40		567073	40			
		567080	40		567074	40			
		567081	40		567075	40			
		567082	40		565030	40			
	567083	40		565031	40				

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

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

1 Hole, JL-84-GSE, Bearing 330° @ -55°, Total Footage 667' (BQcore)

DRILLED BY: Heath & Sherwood Drilling, 34 Duncan Avenue, Kirkland Lake, Ontario.

ONTARIO GEOLOGICAL SURVEY
 ASSESSMENT FILES
 RESEARCH OFFICE

APR 26 1984

RECEIVED

LARDER LAKE
 MINING DIV.

RECEIVED

MAR 22 1984

AM PM

7|8|9|10|11|12|1|2|3|4|5|6

RECORDED MAR 22 1984

REC. No. _____

Date of Report: March 21, 1984
 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 McIvor, 1238 Riverside Dr, Timmins, Ont. P4R 1A4

Date Certified: March 21, 1984
 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.	Work Sketch (as
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.		

