

GM 20023

DRILL HOLE RECORD

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Énergie et Ressources
naturelles

Québec 

LAKE DUFALT MINES LTD.

Drill Hole Record

SERVICE DES GITES MINÉRAUX

20023

B. GM.

Hole No. D-135		Lat. 1,600.0	Dep. 11,620.0	Elev. 11,152.31	Dip -90°	Bearing	Depth 2,942.0'							
Working Place Dupresnoy	Date Started Oct 22/66	Acid Tests		Acid Test			SAMPLED SECTIONS							
	Date Completed Dec 14/66	Depth	Dip	M. Brng.	Depth	Read	Corr.	From	To	C.L.	Cu	Zn	Au	Ag
		15'	90°	90°	2000'	89 1/2°	89°							
		500'	89 1/4°	89°	2493'	89 1/2°	89°							
		1000'	89 1/2°	89°										
		1500'	89 1/2°	89 1/4°										
		1700'	90°	90°										

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
0.0-10.0								Casing.
10.0-72.0	Diorite	Med-grey	Coarse to med.		Massive.	Minor epid.	Odd speck py.	24-26: rust and cave. Far ct gradational.
72.0-133.0	Massive Andesite	Dark grey	F.g.	Locally weakly amygd.	Massive. Weakly to mod fract'd.	Ca-ser filled frs. Minor chl spot.		Odd questionable amygd. 82': water seam and cave. 75'-83': patches and sects of sauss-epid and dior. Frs low angle and 80°. Andesite caught up in the diorite?
133.0-156.5	Massive Andesite	Med grey	F.g.		Massive. Weakly fract'd.	Dioritized. Weak chl speck and spot. Weak epid.		F.g. diorite? Upper ct gradational. Far ct 85° chilled over 4".
156.5-185.5	Porph Rhyolite	Med grey	F.g.	Weakly porph.	Massive. Weakly to mod fract'd.	Local hematite staining. Minor sauss. Mod chl speck. Ser filled frs.		Frs low angle and 85°. Upper 13' mod porph; remainder very weakly porph. Cts 80° and 50°.
185.5-255.0	Massive Andesite	Dark grey	F.g.		Massive. Mod to strongly fract'd.	Ser filled frs.		Frs 40°-80°. Odd hematite stained slip.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
255.0-267.0	Fault Zone	Grn-grey	M.f.g.		Highly sheared and fract'd.	Strong ser. Odd Qtz-ca stgr.	Minor cp.	Shearing 45°. Sheared diorite.
267.0-363.0	Diorite.	Mottled grey	Coarse grained.		Massive.		Odd patch po-cp-py.	317-320.5': irregular dark grey f.g. andesite dyke. 322.5-325': andesite dyke as above. 329.5-332.0': grn-grey lamprophyre dyke. Cts 45° and 35°. Far ct of diorite 45°; chilled over 1.0'.
363.0-493.0	Massive Andesite	Med to dark gry	M.f.g.	Locally very weakly porph. Granular texture.	Massive. Weakly fract'd.	Ser and epid filled frs. Minor sauss.		Siliceous andesite. 387-392': lamprophyre dyke. Cts 20° and ground. Frs 45°-80° and low angle. 406-413': lamprophyre dyke. Cts irregular (low angle) and 45°. 449-454': lamprophyre dyke. Cts 40°.
493.0-516.0	Amygd Flow Brecciated Andesite	Dark grey	M.f.g.		Strongly flow brecciated. Weakly fract'd.	Patchy albitite-sauss. Minor epid. Odd Qtz clot.		
516.0-547.0	Amygd Andesite	Dark grey	M.f.g.	Weakly porph (fs).	Weakly amygd. Weakly to mod fract'd.	Ser-epid filled frs. Odd Qtz clot. Weakly dioritized.		Frs 45-80°.
547.0-735.0	Massive Andesite	Med to dark gry	M.g.	Weakly porph (fs).	Massive. Weakly fract'd.	Strongly dioritized. Qtz-ser filled frs.	Odd speck cp noted with Qtz in fractures.	563-565': large rounded chl spots. (Altn? inclusions?) 40°-80° frs. Odd low angle fr.
735.0-869.0	Amygd Andesite	Dark grey	F.g.		Weakly amygd. Weakly to mod fract'd.	Qtz-sauss filled amygds. Ser-epid filled frs. Odd pod of sauss-epid.		40-80° frs and low angle frs. 831': 2", 45° Qtz-ca bx (fault).

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
869.0-900.0	Massive Rhyolite	Med grey	F.g. to aph.		Massive. Mod fract'd and blocky.	Chl speck.		Highly silic massive andesite? 881-881.5': 40° fault. 881.5-884': hematite stained. Cts not sharp and irregular. 892-900': porph (fs phenos).
900.0-905.0	Amygd Andesite	Grn-grey	F.g.		Mod amygd and fract'd.	Qtz-filled amygds. Ca filled frs. Mod ca altn.		Upper ct flow top breccia.
905.0-910.0	Fault Zone	Grn-grey	F.g.		Schistose and highly fract'd.	Ca filled frs.		Schistosity 65°.
910.0-941.0	Diorite	Med grey	M.f.g.		Massive. Weakly fract'd.			Far ct 80° chilled over 1.5'. Frs 35° and 70°.
941.0-1008.0	Massive Andesite	Dark grey	F.g.		Massive. Weakly to mod fract'd.	Ser filled frs.		Frs 35° and 80°.
1008.0-1034.0	Silic Porph Andesite	Bluish grey	F.g.	Porph (fs)	Massive. Weakly fract'd.	Highly siliceous.		Highly siliceous, could be a fragmental. Odd grn-grey andesite frag?
1034.0-1042.0	Massive Andesite	Dark grey	F.g.		Massive. Weakly fract'd.			
1042.0-1052.0	Alt Andesite	Buff grey	M.f.g.	Heterogeneous. Porph (fs).	Massive.	Strong silic (blue qtz) and ser altn. Trace of biotite.	Odd speck py.	Cts gradational.
1052.0-1061.0	Porph Andesite	Dark grey	F.g.	Porph (fs).	Massive. Weakly to mod fract'd.	Ser, filled frs. Weak chl rag. Weak silic and ser.		Cts gradational.
1061.0-1068.0	Amygd Andesite	Grn grey	F.g.		Mod amygd and fract'd.	Chl-ser filled amygds. Ser filled frs. Odd qtz clot.		

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1068.0-1306.0	Amygd Andesite	Dark grey	F.g.		Very weakly amygd. Weakly fract'd.	Ser filled frs. Minor ser.	Odd speck of cp.	45°-80° frs. 1068.5-1070.5': 80° fault. Strong ca altn with qtz-ca filled frs. 1072-1075': silic dyke. 1119.5-1122': 10° ca stgr with andesite inclusion.
1306.0-1331.0	Porph Andesite	Dark grey	F.g.	Porph(fs).	Massive. Weakly fract'd.	Ser filled frs.	Odd speck of cp.	Dacite? Frs 65°. 1325-1326': andesite dyke. Cts 70°. 1326-1331': highly siliceous.
1331.0-1333.0	Andesite Dyke	Grn-grey	F.g.		Massive.			Cts 60° and 80°.
1333.0-1357.0	Acid Dyke	Med to dark gry	F.g.	Fragmental. Small un-even fs frags(phenos).	Massive. Weakly Fract'd.		Odd speck of cp-py.	Cts 80°. Could be a feldspar porph.
1357.0-1456.5	Andesite Dyke	Grn-grey	F.g.	Strongly porph. Un-even porph (fs).	Massive. Weakly fract'd. 45°-80° frs.	Weak sauss-epid. Odd qtz clot.	At 1381'; one patch of cp.	Cts 80°? and 30°. Dacitic in composition? Weakly porph in first 12' and last 30' of sect. 1363.5-1364.5': 1380-1384' 1415-1416': dark grey f.g. andesite dykes.
1456.5-1493.0	Massive Rhyolite	Med to dark gry.	F.g. to aph.		Massive. Weakly fract'd.	Qtz-ca and odd hematite filled fr.	Odd speck of py.	35°-45° frs. Odd 35° joint.
1493.0-1507.0	Andesite Dyke	Med to dark gry.	F.g.		Massive. Weakly to mod fract'd.			Frs 80° and 40°. Cts 60°?
1507.0-1522.0	Massive Rhyolite	Med to dark gry.	F.g. to aph.		Massive. Weakly fract'd.	Qtz-ca-hematite filled frs.		Frs low angle and 80°.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
1522.0-1536.5	Silic Andesite	Bluish to grn-grey.	F.g.	Weakly Porph(fs).	Massive. Weakly to strongly fract'd.	Ser-ca filled frs.		Dacite. Fracturing increasing towards fault. Frs 65° to 80°.
1536.5-1537.5	Fault Zone	Buff grey	F.g.		Brecciated.		Odd speck py.	Boundary thrust? Fault breccia. Cts 85° and 75°.
1537.5-1546.0	Silic Andesite	Bluish grey	F.g.	Porph(fs)	Massive. Strongly to mod fract'd.	Some ser. Ser-ca filled frs.		
1546.0-1571.0	Massive Andesite	Dark grey	F.g.	Weakly porph.	Massive. Weakly fract'd.			Siliceous andesite.
1571.0-1584.0	Amygd Andesite	Dark grey	F.g.		Weakly amygd.	Minor ser. Qtz-ser filled amygds.	Minor cp in amygds.	Cts 50° and 65°.
1584.0-1632.0	Acid Dyke	Bluish grey	F.g.	Fragmental	Massive. Weakly fract'd.	Scattered sauss spot and patch.	Odd speck py.	Vague light grey frags in a med to dark grey groundmass. Cts 65° and ground.
1632.0-1694.5	Amygd Andesite	Dark grey	F.g.		Weakly amygd and fract'd.	Sauss filled amygds. Sauss spot and patch.	Minor diss py.	Far ct 45°.
1694.5-1709.0	Alt Rhgolite	Med grey	F.g.		Massive.	Mod ca.		1696.5-1698': andesite dyke.
1709.0-1712.0	Fault Zone	Dark grey	F.g.		Schistose	Strong ca.	Diss py.	Schistosity 50°. 1711-1712': low angle qtz stgr.
1712.0-1714.0	Andesite Dyke	Dark grey	F.g.		Massive	Strong ca.	Odd stgr of py.	Far ct irregular.
1714.0-1745.0	Alt Q.F.P.	Med grey	F.g.	Porph. Un-even fs. Poor development of qtz-eyes.	Massive. Weakly fract'd. Blocky.	Weak ca. Some sauss.	Weak to mod diss py. Odd patch py.	Qtz eyes not well developed. Weakly porph. 1731-1732'; andesite dyke.

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1745.0-1763.0	Andesite Dyke	Med grey	F.g.		Massive. Weakly fract'd.		Local diss py.	Siliceous andesite. Cts 60°.
1763.0-1821.0	Q.F.P.	Med to dark gry	F.g.	Very weakly porph. Qtz eyes not well developed.	Massive. Weakly fract'd.	Ca filled frs. Local silic.	Local patches of py.	Uneven porph (fs). Frs 40°-80°
1821.0-1856.0	Massive Rhyolite	Dark grey	F.g.		Massive. Mod fract'd.	Ca filled frs.	Minor diss py.	Frs 40°-45° and 65°.
1856.0-1880.0	Q.F.P.	Med grey	F.g.	Vaguely porph.	Massive. Strongly fract'd and shattered.			Frs 45° and 80°. 1865-1868': f.g. grn-grey andesite dyke. Cts 65°. Strongly fract'd.
1880.0-1919.0	Diorite Dyke	Med grey	M.f.g.		Massive. Weakly fract'd.	Ca-epid filled frs.	Local diss and stgrs of cp-py. At 1894' stgr of cp-sph-galena.	1919-1920.5': 45° fault zone. Cts ground & 65°
1919.0-1936.0	Siliceous Dyke	Bluish grey	F.g.	Porph(fs)	Massive.			Cts 65° and 70°.
1936.0-1946.5	Andesite Dyke	Grn-grey	F.g.		Amygd. Weakly fract'd.			Slightly amygd near upper ct. Cts 70° and 60°.
1946.5-1950.0	Massive Rhyolite	Dark grey	F.g.	Porph(fs).	Massive.			Mod porph.
1950.0-1959.0	Rhyolite Tuff	Med grey	F.g.	Fragmental.	Massive. Weakly fract'd.			Light green-grey frags and small light grey frags. Odd 2" 65° andesite dyke.
1959.0-1964.0	Andesite Dyke	Grn-grey	F.g.		Massive.			Cts 70° and 60°.

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1964.0-1998.0	Massive Rhyolite	Dark grey	F.g.		Massive. Weakly to mod fract'd.	Ser-epid filled frs.		Upper 20' of sect weakly porph. Local 45° shearing.
1998.0-2025.0	Massive Rhyolite	Dark grey-grn	F.g.		Massive. Weakly fract'd.	Epid-chl in frs.	Minor pyrite.	Rock is dense with no flow features. Fractures at 40° to core axis.
2025.0-2045.0	Rhyolite Q.F.P.	Lead grey	Fine med	Uneven porphyritic	Massive. Mod fractured at 45° and 20° to core axis.	Patchy brown biotite alteration, Chl in frs.	Minor pyrite in fractures.	Phenocrysts are ragged feldspars and rounded qtz 3mm in diameter.
2045.0-2094.0	Rhyolite Qtz Porphyry	Light grey	Fine med	Uneven porphyritic	Massive. Fractured. qtz phenocrysts 1-2mm.	Qtz-ca in fractures. Ser in shears.	Minor py.	2083-2085': shear zone at 40° to axis. Phenocrysts are blue qtz.
2094.0-2111.0	Massive Rhyolite	Light grey	Fine med	Even	Massive with weak flow bands. Mod fract'd.	Qtz-ca in frs. Patches of sericite.		Fractures at 35° to core axis. Rock has flow features distinct from the Q.F.P.
2111.0-2178.0	Rhyolite Q.P.	Light grey-grn	Fine med	Uneven porphyritic	Massive. Mod fract'd. Phenocrysts of qtz in a fine matrix.	Qtz-ca in frs.	Minor py.	Fractures 10-25° to core axis. Qtz phenocrysts are dark grey and rounded.
2178.0-2221.0	Altered Rhyolite Q.P.	Grey-buff	Fine Med	Uneven porphyritic	Massive. Mod fract'd.	Hematite alteration gives red color. Specular hematite in frs.	Minor pyrite and hematite.	Fractures 70° to core axis filled with qtz and hematite. Mauve ca-chl in some fractures.
2221.0-2258.4	Rhyolite Q.P.	Light grey	Fine med	Uneven porphyritic	Massive. Strongly fract'd.	Hematite and qtz and chl.	Minor py and hematite.	Fractures mainly 10-30° to core axis. Minor hematite stain. Ca-chl in fractures.

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2258.4-2282.0	Altered Rhyolite Q.P.	grey buff	Fine med	Uneven porphyritic Qtz phenocrysts.	Massive. Fract'd.	Hematite stain. Specular hematite-chl-ca in fractures.	Minor pyrite.	Fractures 70° and 10° to core axis; filled with mauve ca-chl and specular hematite.w
2282.0-2296.0	Rhyolite Q.P.	Pale grey-grn	Fine med	Uneven porphyritic.	Massive. Highly fractured.	Chlorite alteration with ca-qtz in fractures.		2288-2290': dynamic breccia with fractures at 30° to core axis.
2296.0-2305.0	Shattered Rhyolite Q.P.	Pale grey-grn	Fine med	Uneven porphyritic.	Massive. Highly fractured and sheared.	Chlorite, sericite and epidote in frs.		Broken core. 2298-2305': fractures at 10° and 60° to core axis.
2305.0-2334.8	Shattered and bleached Rhyolite Q.P.	Pale green	Fine med	Uneven porphyritic.	Massive. Highly fractured.	Epid-ser and graphite.	Nil	Highly shattered and bleached zone. Fractures 30° to core axis.
2334.8-2340.0	Andesite Dyke	Grey green	Fine		Massive. Mod fractured.	Red ankerite in fractures.	Minor pyrite.	Fractures at 30° to the core axis. Contacts 50° to core axis.
2340.0-2383.0	Rhyolite Q.P.	Lead grey	Fine med	Uneven porphyritic.	Massive. Mod fractured.	Red ankerite, white ca-chl in fractures.		2340.0-2351': fractured section with red ankerite in frs at 30° to core axis. Other fractures 50° to core axis.
2383.0-2412.2	Rhyolite Q.P.	Lead grey	Fine med	Uneven porphyitic.	Massive and fractured.	Qtz in shear zone	Minor sphalerite and pyrite in fault zone.	2398-2402': fault zone with shear at 35° to core axis.
2412.2-2439.0	Altered Rhyolite Q.P.	Dark grey-brown	Fine med	Uneven porphyritic.	Massive. Weakly fractured.	Brown biotite alteration and blue qtz eyes.		2419-2421.0': andesite dyke. biotite alteration distinctive in this section.

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2439.0-2469.2	Chloritized Rhyolite Q.P.	Lead grey	Fine med	Uneven porphyritic and porphyroblastic.	Massive. Weakly fractured.	Carbonate in fractures. Green chlorite spots in the bulk of rock.	Nil	Chlorite alteration. Section of Q.P. Fractures at 60° to core axis. Surface resembles massive rhyolite.
2469.2-2517.6	Rhyolite Q.P.	Med grey-brown	Fine med	Uneven porphyritic.	Massive. Weakly fractured.	Qtz and carb in fractures. Scattered biotite and chlorite alteration.	Minor pyrite.	Fractures 60° to core axis. 2490.2-2490.7': andesite dyke.
2517.6-2523.0	Andesite Dyke	Dark grey-grn	Fine med	Uneven porphyritic.	Massive. Weak fractured.	Carbonate in fractures.		Upper contact 40° to core axis.
2523.0-2538.6	Rhyolite Q.P.	Med-grey	Fine med	Uneven porphyritic.	Massive. Weakly fractured.	Carbonate in fractures. Chlorite spotting.	Minor pyrite.	Section similar to above but rather more chlorite.
2538.6-2585.2	Acid Dyke	Dark grey	Fine	Uneven. Weakly porphyritic.	Massive. Weakly fractured.	Incipient dalm in patches near upper surface. Biotite altn. minor.	Minor chalco.	Red carbonate and hematite in weak fractures. Fractures 60° to core axis.
2585.2-2599.6	Rhyolite Q.F.P.	Lead grey	Fine med	Uneven porphyritic.	Massive. Moderately fractured.	Mauve carbonate in dyke. Chlorite spotting.		2587.2-2589.6': andesite dyke with contacts at 10° to core axis.
2599.6-2603.9	Andesite Dyke	Grey-grn	Fine med	Weakly porphyritic.	Massive. Weakly fractured.			Upper and lower contact 30° to core axis.
2603.9-2619.0	Rhyolite Q.P.	Lead grey	Fine med	Uneven porphyritic.	Massive. Weakly fractured.	Chlorite spotting.	Minor pyrite.	Fractures 65° to core axis.
2619.0-2623.2	Dalmatianite	Grey mottled	Med coarse	Uneven porphyroblastic.	Massive. Weakly fractured.	Strong cordierite.	Nil	Section is altered rhyolite Q.P. Cordierite crystals 2-3mm long.
2623.2-2626.6	Rhyolite Breccia	Lead grey	Fine med	Fragmental.	Massive.	Moderate cordierite.		Healed fractures 60° to core axis.

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2626.6-2629.5	Acid Tuff	Dark grey	Fine		Weakly fractured.	Carbonate in fractures.	Minor pyrite and chalco.	Contacts 50° to core axis. White chert in lower 2 inches.
2629.5-2670.6	Rhyolite Breccia	Grey-white mottled.	Fine med	Fragmental with porphyritic fragments.	Unsorted. Coarser than above.	Weak sericite with carbonate and chlorite in fractures. Sericite bleaching in lower section.	Minor pyrite.	Chert and acid fragments up to one inch long in a med matrix. Qtz eyes occur in altered fragments.
2670.6-2677.2	Andesite Dyke	Dark grey-grn	Fine med		Massive. Moderately fractured.	White carbonate in fractures.		Upper contact at 45° to core axis.
2677.2-2702.0	Rhyolite Breccia	Grey-brown mottled	Fine med	Fragmental. Porphyritic.	Massive. Weakly fractured.	Weak biotite alteration.		White feldspar phenocrysts occur in the breccia matrix.
2702.0-2714.0	Altered Rhyolite Breccia	Grey-dark brown mottled.	Fine med	Fragmental. Porphyritic.	Massive. Weakly fractured.	Strong biotite alteration.	Minor pyrite.	Heavier biotite altn and phenocrysts of white feldspar.
2714.0-2731.0	Altered Q.F.P. with Andesite Dykes.	Grey brown.	Fine med	Uneven porphyritic.	Massive. Weakly fractured.	Strong biotite altn.		Healed fractures at 60° to core axis. 2726-2727': andesite dyke. Contact 50° to core axis. 2730-2730.6': andesite dyke. Contact 50° to core axis.
2731.0-2745.0	Altered Acid Tuff	Grey-dark grey	Fine med	Uneven porphyroblastic.	Banded and weakly fractured.	Strong biotite and weak- Moderate chlorite dalm.	Pyrite and minor sphalerite.	Assay Zn and Cu 2738-2739.7' Tuff has 2 inch of chert at the top. Upper 2' weakly banded. Lower section altered to biotite and dalm.

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2745.0-2747.4	Q.F.P. Dyke	Dark grey	Fine med	Uneven porphyritic.	Massive. Weakly fractured.	Minor carbonate in steep fractures.		Q.F.P. divides upper altered tuff from dense grey pyritized tuff.
2747.4-2766.0	Dense Grey Tuff or Ash.	Med grey	Fine	Even grained.	Massive. Weakly fractured.	Carbonate in fractures.	1-2% pyrite. Minor sphalerite in upper section.	Assay Zn and Cu 2747.4-2750.8' Fractures 10° and 80° to core axis. Tuff similar to that below sulphides in D-134.
2766.0-2771.0	Altered Rhyolite Breccia.	Dark grey-brown	Fine	Fragmental. Weakly fragmented.	Unsorted. Mod fractured.	Brown biotite altn.	Minor pyrite.	Fractures 60° to core axis. Breccia has altered fragments.
2771.0-2775.6	Dense Ash Or Tuff	Dark-med grey	Fine	Fragmental. Weakly porphyroblastic.	Massive. Weakly banded.	Weak biotite altn.	Minor pyrite.	Feldspar crystals may be secondary.
2775.6-2812.6	Altered Rhyolite Breccia.	Grey-brown mottled	Fine med	Fragmental.	Unsorted. Mod fractured.	Strong biotite altn. Carbonate in fractures.	1-2% diss py.	2787.4-2788': acid tuff band. Some of the pyrite is framboidal.
2812.6-2831.0	Biotite Dalmationite.	Dark brown-green	Fine med	Porphyroblastic.	Massive. Mod fractured.	Cordierite and brown biotite; Strong. Fragments surrounded by green chlorite.	Minor pyrite.	Fractures at 50° to core axis contain white carbonate. 2816-2817': shear at 60° to core axis.
2831.0-2873.0	Altered Rhyolite	Dark brown-Duck grey.	Fine	Even	Massive. Weakly fractured.	Strong biotite altn. Carbonate in fractures.	Minor pyrite in fractures.	Fractures 40° to core axis. 2834.6-2835.9': andesite dyke with contacts 45° to core axis.
2873.0-2900.0	Cordierite Dalmationite.	Dark grey-brown.	Fine med	Uneven porphyroblastic.	Massive. Weakly fractured.	Strong cordierite, biotite.	1% scattered pyrite.	Fractures 50° to core axis. Healed by carbonate and biotite. Cordierite crystals 8mm in diameter in a matrix of biotite and chlorite.

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2900.0-2917.0	Altered Rhyolite	Dark grey-brown	Fine med	Uneven porphyroblastic.	Massive. Weakly fractured.	Moderate-strong biotite alteration.	Minor pyrite.	2900-2901': andesite dyke at 50° to the core axis. (Altered with dalm). Porphyroblasts are biotite in matrix of qtz and feldspar.
2917.0-2922.0	Altered Rhyolite Breccia	Dark brown	Fine med	Fragmental.	Massive. Weakly fractured.	Strong biotite alteration.		Breccia is finer than above contact.
2922.0-2933.0	Altered Andesite Dyke	Dark green	Fine med	Porphyroblastic.	Massive. Moderately fractured.	Strong biotite and cordierite altn.	Minor pyrite.	Upper contact 20° to core axis. Fractures filled with carbonate 40° to core axis.
2933.0-2942.0	Massive Rhyolite	Lead grey	Fine		Massive. Weakly fractured.	White carbonate in fractures.		Lower contact of andeiste dyke 30° to core axis.
END OF HOLE								

LAKE DUFALT MINES LTD.

Drill Hole Record

Hole No. D-136 Lat. 1,692.19 Dep. 11,991.08 Elev. 11,173.85 Dip -90° Bearing _____ Depth 3,025.0'		Working Place Dupresnoy Date Started Oct 24/66 Date Completed Jan 11/67		Acid Compass Tests		Acid Test		SAMPLED SECTIONS																																																			
Depth	Dip	M. Brng.	Depth	Read	Corr.	From	To	C.L.	Cu	Zn	Au	Ag																																															
11'	89° 3/4°	89 1/2°	1620'	88 1/2°	88°	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">Acid Dip Tests</td> <td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Head</td> <td>Corr</td> <td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>88°</td> <td>87°</td> <td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>87°</td> <td>86°</td> <td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>						Acid Dip Tests								Head	Corr							88°	87°							87°	86°																						
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500'	89 1/4°	88 3/4°	2000'	87 1/2°	86 1/2°																																																						
1000'	88 1/2°	87 1/2°	2272'	87°	86°																																																						
1300'	88°	87°	2320'	87°	86°																																																						
1515'	88 1/2°	87 1/2°	2365'	87 1/2°	86 1/2°																																																						
1500'	88 1/2°	88°	2450'	88°	87°																																																						
Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks																																																			
0.0-6.0								Casing.																																																			
6.0-31.0	Diorite	Med grey	M.g.	Porph(fs)	Massive			Dip at 60°																																																			
31.0-84.0	Diorite	Med grey	Coarse		Massive	Chloritized mafics.																																																					
84.0-267.0	Diorite	Med grey	M.g.		Massive			At 130', 135' and 136' honey-combed qtz water course.																																																			
267.0-407.6	Fractured Diorite	Grey-grn mottled	M.c.g.		Massive. Fract'd and sheared.	Qtz-carb altn in fractures. Chl-ser-qtz altn in shears.	Minor pyrite.	352'-368': shear zone at 40° to core axis. 397'-405': shear at 40° to core axis. Some fractures with white qtz and carb are at 30° to core axis.																																																			
407.6-552.0	Med grained Diorite	Grey-green	Med		Massive. Weakly fractured.	Qtz and carbonate in steep fractures.		At 451'-452'; 463'-464'; and 434'-435': shears with qtz at 25-35° to core axis.																																																			

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552.0-1043.0	Diorite	Grey-green	Med-coarse		Massive. Weakly fractured.	Qtz-ca in fractures.	Odd speck py.	575'-575.8': acid dyke. 578'-579': andesite dyke. 626'-631': shear zone with chl at 45° to core axis. 821'-822': Qtz-ca fault. Cts 30°. 965'-967': Qtz-ca vein. Cts 15°.
1043.0-1046.0	Fault Zone	Grn-grey	M.f.g.		Schistose. Local fault breccia.			Cave at 1044.5'. Schistosity 45°-65°.
1046.0-1061.5	Altered Andesite Dyke	Grn-grey	F.g.		Massive. Weakly to mod fract'd.	Local strong ca. Ca-ser filled frs.		Far ct ground. Frs 45°-80°.
1061.5-1105.5	Diorite	Med-grey	F.g.		Massive. Weakly fract'd.			Far ct 65°.
1105.5-1225.0	Amygd Andesite	Grn-grey	F.g.		Weakly amygd. Mod to strongly fract.	Qtz-ca-epid filled frs. Odd patch of sauss-epid. Qtz-sauss filled amygd.		1128'-1137': broken. Numerous low angle epid plated slips. Frs 60°-80° and low angle.
1225.0-1231.0	Altered Amygd Andesite	Grn-grey	F.g.		Weakly amygd. Locally sheared and brecciated. Mod fract'd.	Ca filled frs. Local epid.	Local finely diss py.	Fault zone. Local 30° shearing.
1231.0-1338.0	Amygd andesite	Med to dark grey	F.g.	Very weakly porph (fs).	Very weakly amygd. Strongly fract'd.	Ser-minor ca filled frs. Qtz-sauss filled amygd. Odd Qtz stgr.	Odd speck of cp.	65°-80° frs. Minor 30° fracturing. Far ct 80°.
1338.0-1341.0	Massive Rhyolite	Pinkish grey	F.g.		Massive. Weakly fract'd.	Rounded ser-chl spots. Weak iron staining.		
1341.0-1345.0	Massive Rhyolite	Dark grey	F.g.	Fragmental?	Massive. Weakly fract'd.	Ser.	Odd speck of cp.	Could be a fragmental with tiny light grey frags.

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1345.0-1351.0	Massive Rhyolite	Reddish grey	F.g.		Massive.	Strong iron staining and rounded chl-ser spot. Also chl speck.		
1351.0-1380.0	Massive Rhyolite	Dark grey	F.g.		Massive. Blocky.	Ser-chl.	Minor finely diss py.	1356.5-1359': f.g. grn-grey andesite dyke. Cts ground and 80° fault.
1380.0-1415.0	Massive Rhyolite	Maroon to pinkish grey	F.g.		Massive. Blocky. Weakly fract'd.	Strongly iron stained. Strong chl spot and some ser.	Minor finely diss py.	Low angle and 60° joints. 1404-1405': andesite dyke. Cts ground.
1415.0-1473.0	Andesite Dyke	Med grey to grn-grey	F.g.		Massive. Weakly Fract'd.	Ser-epid filled frs. Ser speck.		Frs 25° and 80°. Fairly siliceous andesite (dacite).
1473.0-1485.0	Andesite Dyke	Light grey	F.g.	Porph. Lath like fs crystals.	Massive.	Ser and chl speck.		Cts 5° and chilled.
1485.0-1500.0	Andesite Dyke	Med grey to grn-grey	F.g.		Massive. Weakly Fract'd.	Ser-ca filled frs. Ser speck.		As 1415-1473'. 25°-80° frs.
1500.0-1524.0	Massive Rhyolite	Dark grey	F.g.		Massive. Weakly fract'd.		Odd speck of cp-py.	Cts ground and 80°.
1524.0-1596.5	Andesite Dyke	Med to dark grey	F.g.	Weakly porph (fs)	Massive. Weakly fract'd. Mod fract'd in last 5.0'.	Ser and chl speck.		Frs 45 to 75°. 1452-1453.5': bluish-grey f.g. silic dyke with a 3", 80° ca-ser fault in central portion. Cts 65° and ground. More strongly porph in last 11' of section.

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1596.5-1601.0	Fault Zone	Light grn-grey	F.g.		Schistose.			Schistosity 45°. Ca-ser schist.
1601.0-1644.0	Diorite	Med to dark gry	M.g.	Locally porph.	Massive. Weakly fract'd.		Odd speck py.	Frs 45° and 65°.
1644.0-1763.5	Diorite.	Med grey	M.g.		Massive. Weakly fract'd.	Fractures filled with epid-chl.	Minor pyrite in fractures.	Fractures at 65° to the core axis. Lower 10' of sill has a fine grained chilled margin.
1763.5-1783.0	Bleached Massive Andesite	Grey-grn	Fine med	Even grained.	Massive. Moderately fract'd.	Ca-qtz-chl in frs.		Fractures at 45° to core axis are filled with qtz-ca.
1783.0-1880.0	Amygd Andesite P.L.	Dark grey	Fine med		Moderately amygd'l. Pillows and fract'd.	Carbonate and qtz in fractures, Sericite patches in lower 15'.		1820-1821': shear at 35° to core axis. Moderate fracturing through the section at 45° to core axis.
1880.0-1893.6	Massive Andesite	Med grey	Fine med		Massive with weak flow bands.	Minor carbonate in fractures.		1880-1881': flow breccia. Rock is dense with weak flow bands.
1893.6-1905.0	Porphyritic Andesite	Med grey-green	Fine med	Uneven porphyritic.	Massive. Weakly fractured.	Epidote and carb in fractures.		Fractures at 60° to core axis.
1905.0-1920.0	Sheared Andesite	Green-med grey	Fine med		Massive. Strongly fractured and sheared.	Chlorite, qtz and carbonate alteration along fractures.		1914-1920': ground core. Fractures 60° to core axis.
1920.0-1928.6	Andesite Dyke	Grey-grn	Fine med		Massive. Mod'ly fractured.	Carbonate in frs.		Fractures at 60° to the core axis.

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1928.6-1953.0	Fractured Rhyolite	Lead grey	Fine med		Massive. Highly fractured and broken.	Carbonate in fractures. Red hematite stain in some fragments.		1931-1934': 2' lost core. 1937-1947': 5.5' lost core. 1947-1953': 2' lost core. Boundary fault zone.
1953.0-1995.0	Fractured "And Ground Rhyolite?"	Lead grey	Fine med		Massive. Highly fractured and broken.	Epidote and sericite in fractures.		16' of lost core in section. 1971-1985': 10' lost core. Boundary fault zone.
1995.0-2047.0	Porphyritic Andesite	Med grey-grn	Fine med	Uneven porphyritic	Massive. Moderately fractured.	Epidote-carbonate and qtz in frs.	Minor pyrite.	1995-2005': Massive section. Fractures 60° to core axis. 2012.6-2021': fractures at 20° to core axis.
2047.0-2077.6	Amygdular Andesite.	Med grey-grn	Fine med		Moderately amygd'ly Weakly fractured.	Carbonate in frs. Green chlorite alteration.	Minor pyrite.	Fractures 40° to core axis. 2064-2069': porphyritic section.
2077.6-2096.0	Massive Rhyolite	Med-lead grey	Fine med		Massive. Weakly fractured.	Carbonate in frs.	Minor pyrite.	Hair like concoidal fracture indicative of rhyolite in other holes.
2096.0-2127.0	Porphyritic Andesite Dyke	Med grey-grn	Fine med	Uneven. Porphyritic with feld phenocrysts up to 3mm.	Massive. Weakly fractured.	Carbonate in frs.		Fractures 40° to core axis. Lower contact 40° to core axis.
2127.0-2153.6	Flow Banded Andesite	Dark grey-green	Fine med		Massive to weakly flow banded.	Carbonate in frs at 40° to axis.	Minor pyrite.	Fractures at 50° and 10° to the core axis.
2153.6-2166.0	Andesite Dyke	Dark green	Fine med		Massive. Moderately fractured.	Ca-qtz and epidote in fractures.	Minor pyrite.	Fractures at 60° to the core axis.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
2166.0- 2179.0	Basic Tuff And Ash	Med dark grey	Fine	Uneven graded.	Weakly bedded.	Patches of brown biotite alteration.	Pyrite framboids up to 2mm in upper 4'.	Banding 35° to core axis. The lower portion is bedded and cherty.
2179.0- 2202.0	Massive Andesite	Grey- brown	Fine med		Massive. Moderate- ly fractured.	- Carbonate in frs and patches of brown biotite.	Minor pyrite.	Remnants of flow banding in lower section. Fractures at 30-50° to core axis.
2202.0- 2241.0	Massive Andesite	Med-dark grey	Fine med	Uneven Weakly porphyritic in patches.	Massive. Highly fractured.	Carbonate in frs. Patches of biotite and chl and minor green epidote.	Minor pyrite.	Fractures at 55° to core axis.
2241.0- 2255.0	Andesite Dyke	Grey- green	Fine med	Even grained. Crystalline.	Massive. Moderate- ly fractured.	- Carbonate in frs.		Fractures 70° and 35° to core axis. Upper contact 35° to core axis. Cuts jointing in andesite.
2255.0- 2267.0	Massive Andesite.	Med grey	Fine		Massive. Moderate- ly fractured.	- Carbonate in frs.		Fractures at 60° to core axis. Similar to the above dyke.
2267.0- 2292.0	Andesite Breccia	Light grey	Fine med	Fragmental qtz frags in a fine matrix.	Weakly banded.	Carbonate and sericite along frs.	1% pyrite in upper 15'.	Two ages of fractures at 35° and 70° to core axis. Section has a fragmental texture and few qtz eyes.
2292.0- 2315.0	Fractured Andesite	Med grey	Fine		Massive. Moderate- ly fractured.	Green chlorite in fractures.	Nil	Fractures 70° to core axis. 2309-2311': weak shear.
2315.0- 2350.0	Bleached Andesite Q.P.	Straw yellow	Fine med	Uneven porphyritic.	Massive. Weak- moderate frs.	Sericite alteration. Strong carbonate in fractures.	Nil	Fractures at 60° and 30° to core axis.
2350.0- 2377.0	Mottled Andesite Q.P.	grey- yellow	Fine med	Uneven porphyritic.	Massive. Moderate- ly fractured.	Patchy sericite altn. Carbonate in fractures.	Nil	Fractures 50°-70° to core axis.
2377.0- 2398.0	Bleached Andesite Q.P.	Straw yellow	Fine med	Uneven porphyritic.	Massive. Moderate- ly fractured.	Strong sericite altn.		Fractures 60° to core axis. 2393-2394': andesite dyke.

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2398.0-2408.6	Andesite Dyke	Grey-green	Fine med		Massive. Weakly fractured.	Mauve carbonate in fractures.		Fractures at 60° and 20° to core axis. Upper contact 70° to core axis.
2408.6-2435.2	Bleached Rhyolite Q.P.	Yellow grey mottled.	Fine med	Uneven porphyritic.	Massive. Moderately fractured.	Sericite alteration. Patches of brown biotite.	Minor pyrite.	Fractures at 60° to core axis.
2435.2-2466.6	Andesite Dyke	Dark grey	Fine		Massive. Moderately fractured.	Carbonate and epid.		Upper contact 45° to core axis.
2466.6-2503.0	Rhyolite Q.P.	Lead grey	Fine med	Uneven porphyritic.	Massive. Moderately fractured.	Carbonate in frs.	Minor pyrite.	2675.6-2677.6': andesite dyke with contacts at 35° to core axis. Fractures 60° to core axis. Feldspar phenocrysts occur in the upper 10'.
2503.0-2526.0	Massive Rhyolite	Lead grey	Fine Med	Weakly porphyritic.	Massive. Weakly fractured.	Weak chlorite spotting. Carbonate in frs.	Specks of chalco.	Fractures and weak banding 55° to core axis.
2526.0-2595.0	Sheared Acid Dyke	Light grey green	Fine med	Weakly porphyritic.	Massive. Highly fractured and sheared.	Mauve and white carb in fractures. Incipient dalm at top.	Minor pyrite.	2531.6-2533'; 2537-2539.6' and 2540-2544': hornblende lamprophyre dykes. 2563-2567': fault zone at 35° to core axis. Fractures above and below the fault 65° to core axis. Section similar to acid dyke in hole D-134

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2595.0-2641.0	Rhyolite Q.P.	Lead grey	Fine med	Uneven porphyritic.	Massive. Fract'd and sheared.	Mauve carbonate and qtz in fractures. Chlorite spotting at base of section.	Minor pyrite.	2595-2597': shear zone at 60° to core axis. Upper contact 50° to core axis. 2" lamprophyre dyke above contact; at 10° to core axis, is cut by mauve carbonate. Fractures in lower section 15° to core axis.
2641.0-2651.0	Rhyolite Breccia	Grey white mottled	Fine med	Uneven fragmental.	Highly fractured.	Carbonate in frs.	Minor pyrite.	Fractures 65° to core axis. Thin section above main breccia. 2630-2637': 3' of lost core with andesite chips.
2651.0-2657.6	Rhyolite Q.P.	Lead grey	Fine	Uneven porphyritic.	Massive. Highly fractured.	Chlorite spotting.	Minor pyrite.	Fractures 60° to the core axis.
2657.6-2695.6	Porphyritic Rhyolite Breccia	Mottled grey white	Fine med	Uneven Fragmental and porphyritic.	Massive. Moderately fractured.	Carbonate in frs.	Minor pyrite and pyrrhotite.	Fractures at 50° to axis; filled with carbonate. Fractures 25° to axis contain pyrite. 2684.6-2685.6': andesite dyke. Feldspar phenos form in breccia.
2695.6-2703.0	Andesite Dyke	Dark grey-green	Fine grained		Massive. Highly fractured.	Carbonate in frs.	Minor pyrite in fractures.	Fractures at 60° to core axis.
2703.0-2728.6	Altered Rhyolite Breccia	Lead grey-light green	Fine med	Fragmental Qtz and feld porphyritic.	Massive. Highly fractured.	Carbonate-sericite and chlorite altn.	Minor pyrite.	2705-2707': shear zone at 50° to core axis. Qtz and feldspar phenos up to 4mm. Cherty fragments. Fractures 60° and 20° to core axis.

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2728.6-2736.7	Rhyolite Q.P.	Lead grey	Fine med	Uneven porphyritic.	Massive. Weakly fractured.	Minor chlorite and carbonate in frs.	Minor pyrite and chalco.	White feldspar phenocrysts near the base of section.
2736.7-2751.1	Massive Sulphide In Tuff	Brassy yellow brown	Fine		Massive. Fract'd.	Biotite specks and dalm.	5% sphalerite 5% chalco 10% pyrite and pyrrhotite.	Assays 2736.7-2738.1' 2738.1-2740.0' 2740.0-2743.2' 2743.2-2746.0' 2746.0-2748.6' 2748.6-2751.0' 2751.0-2755.0'
2751.1-2763.7	Dense Cherty Tuff with Pyrite	Light grey	Fine	Uneven porphyroblastic.	Massive or dense. Weakly fractured.	Incipient dalm with cordierite and minor chlorite.	2-3% pyrite. Minor chalco.	Assays 2755.0-2760.0' 2760.0-2765.0'
2763.7-2765.0	Daltonite and pyrite.	Grey mottled	Fine coarse	Uneven porphyroblastic.	Massive.	Strong dalm with cordierite and minor chlorite.	2-3% massive and colliform pyrite.	2765.0-2768.0' Section possibly altered ash.
2765.0-2777.0	Altered Rhyolite Breccia And Tuff	Grey white mottled	Fine med	Fragmental	Massive. Moderately fractured.	Cordierite. Minor chlorite and carb.	1% chalco, sphalerite and 2% pyrite.	Sulphides fill fractures in some cases. Fractures 45° to core axis. Assays 2768.0-2771.0' 2771.0-2773.5' 2773.5-2775.8' 2775.8-2780.0'
2777.0-2782.4	Altered Rhyolite Breccia	Grey-white mottled	Fine coarse	Fragmental Porphyroblastic.	Massive. Weakly fractured.	Moderate cordierite alteration. Minor chlorite.	Minor pyrite.	Breccia section finer than above.
2782.4-2791.6	Fragmental Rhyolite	Dark grey brown	Fine	Fragmental	Massive. Weakly fractured.	Moderate-strong biotite alteration.	Minor pyrite.	Healed fractures 35° to core axis. Fragments of feldspar and rock in a dense matrix.

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2791.6-2797.6	Acid Dyke	Grey white	Fine		Massive. Weakly fractured.	Carbonate in frs.		Fractures 35° to core axis.
2797.6-2820.0	Fragmental Rhyolite	Med grey	Fine		Massive. Moderately fractured.	Strong-med biotite and cordierite at base.	Minor pyrite.	Healed fractures at 35° to core axis. Lower 4' of section is dense, and weakly altered.
2820.0-2835.0	Semi-Massive Sulphide In Dalm	Med grey	Fine med	Fragmental.	Fractured and sheared.	Strong-med dalmationite.	3% sphal 2% chalco 4% pyrite and pyrrhotite.	Assays 2820.0-2822.5' 2822.5-2825.0' 2825.0-2827.5' 2827.5-2830.0' 2830.0-2835.0' 2825-2826': shearing 35° to core axis.
2835.0-2847.0	Altered Rhyolite Breccia	Dark grey brown	Fine	fragmental	Massive. Weakly fractured.	Strong biotite and dalmationite.	3% pyrite. Minor chalco.	Assays 2835.0-2840.0' 2840.0-2847.0' Section is altered breccia.
2847.0-2848.6	Dalmationite	Dark grey green	Fine med	Porphyroblastic.	Massive. Weakly fractured.	Carbonate in fractures. Cordierite in dissemination.	Minor pyrite.	2847-2847.6': shear at 60° to core axis.
2848.6-2878.0	Altered Rhyolite	Med grey	Fine med	Porphyroblastic.	Massive. Moderately fractured.	Chlorite spotting in rock. White carbonate in fractures.	Minor pyrite in fractures.	2850-2850.2': hornblende lamp dyke. Cts 50° to core axis. 2854.4-2854.6': lamp dyke. 2868-2870': shear at 45°-60° to core axis.
2878.0-2897.8	Altered Rhyolite	Dark grey brown	Fine med	Porphyroblastic.	Massive. Highly fractured.	Biotite alteration general. Sericite near fractures. Remnants of dark chlorite.	Pyrite near frs.	Fractures at 80° to core axis.; with sericite at the margins. Lower section shows white bleaching and alteration.

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2897.8-2904.0	Massive Sulphide	Brown Dark grey	Fine	Porphyroblastic.	Massive.(Ground)	Cordierite altn.	7% sphalerite, pyrite in a cordierite matrix.	Assays 2897.8-2900.7' 2900.7-2904.0' Section has a small chert band at surface.
2904.0-2915.0	Semi-Massive Sulphide	Brassy yellow grey	Fine	Porphyroblastic.	Massive. Weakly fractured.	Cordierite and chl in matrix. Cordierite crystals up to 4mm diameter.	1% sphal 1/2% chalco. Massive pyrite.	Assay 2904.0-2907.0' 2907.0-2910.0' 2910.0-2912.5' 2912.5-2915.0' Massive and framboidal pyrite with spotty zinc.
2915.0-2930.0	Semi-Massive Sulphide	Brassy yellow-grey	Fine coarse	Uneven porphyroblastic.	Massive. Weak fractures cemented with sulphide	Cordierite and sericite in matrix.	1/2% chalco 1% sphalerite 10-20% pyrite.	Assay 2915.0-2920.0' 2920.0-2925.0' 2925.0-2930.0' Sulphides are patchy compared to above section.
2930.0-2937.0	Cordierite Dalmationite.	Med dark grey	Med coarse	Uneven porphyroblastic.	Weakly banded and weakly fract	Cordierite crystals d. up to 5mm with sericite.	Patches of massive pyrite and scattered pyrite.	Assay 2930.0-2933.5' 2933.5-2937.0' 2933.5-2937.0': grey cherty section.
2937.0-2947.0	Brecciated Rhyolite	Lead grey	Fine		Brecciated and fractured.	Weak cordierite, chlorite and carb alteration.	2-3% pyrite. Minor chalco.	Sulphides fill fractures and breccia. Assay 2937.0-2942.0' 2942.0-2947.0'
2947.0-2966.0	Altered Rhyolite Breccia	Dark grey green	Fine coarse	Uneven porphyroblastic.	Brecciated with weak secondary fracture.	Weak cordierite and chlorite.	2-3% pyrite in fractures.	Assay 2947.0'-2951.0' Upper 4' has secondary brecciation with pyrite. Fractures 50' to core axis.

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2966.0-2970.3	Andesite Dyke	Dark grey-green	Fine		Massive. Weakly fractured.	Carbonate in frs.		Upper contact 40° to core axis. Fractures at 50° to core axis.
2970.3-2996.0	Altered rhyolite Breccia	Dark grey-brown	Fine coarse	Uneven porphyroblastic.	Primary breccia and cataclastic breccia.	Incipient cordierite and strong-med biotite altn.	2-4% pyrite in fractures.	Assays 2770.6-2775.0' 2786.0-2790.0' 2790.0-2794.0' Sections are dacite breccia filled with pyrite and carb.
2996.0-3022.0	Cordierite Dalm	Dark grey brown	Fine coarse	Uneven porphyroblastic.	Massive with healed fractures.	Strong cordierite and med biotite alteration. Minor sericite.	Minor pyrite and chalco.	Rock may have been a rhy breccia. Healed fractures at 50° to core axis.
3022.0-3025.0	Altered Andesite Dyke	Dark green grey	Fine med	Even grained.	Massive. Mod'ly fractured.	Carbonate in 50° fractures. Chlorite in 10° fractures.	Minor pyrite and chalco.	Fractures 50° and 10° to core axis. Upper contact 35° to core axis.
END OF HOLE								

LAKE DFAULT MINES LTD.

Drill Hole Record

Hole No. N-182	Lat. 19,036.81	Dep. 15,734.20	Elev. 11,143.26	Dip -90°	Bearing _____	Depth 2416'
Working Place Mid-Nor bec	Date Started May 3, 1963	Compass Tests		Acid Test		
Deepened Oct 31, 1966	Date Completed May 21, 1963	Depth	Dip	M.Brng.	Depth	Read
						Corr.
		50'			89	1/2°
		500'			89	1/4°
		1000'			89	1/4°
		1360'			89	3/4°
		2000'			89	3/4°
		2380'			88	3/4°

SAMPLED SECTIONS						
From	To	C.L.	Cu	Zn	Au	Ag

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
0.0-2.0								Casing.
2.0-17.0	Amyg'l Andste	Grn-gry	M.f.g.		Amyg'l.	Saussuratized.	Py in fract.	
17.0-30.0	Diorite Dyke	Grn	M.g.	Uniform.				
30.0-33.5	Broken Grnd Fault Zone	Brn				Rusted.		3' lost core.
33.5-37.0	Amyg'l Andesite P.L.	Grn	M.f.g.		Weakly pil'd. Mod'ly fract'd.	Minor chl. Qtz carb. chl in fract'g.		
37.0-39.0	Qtz carb Shear Zone	Buff-gry	M.f.g.		Strong shear zone at 70°(d)	Qtz-carb. Strongly bleached sauss.	Mod-stgr py. pyrr. Minor cp.	
39.0-53.0	Sheared Andste	Gry	M.f.g.		Mod'ly fract'd.	Minor biot. Grid altn.		

Hole No. N-182

Logged by D.H.B.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
53.0- 191.5	Andste Dyke	Grn-gry	M.f.g.	Uniform Flecked by fds.		Weakly fract'd at 70°.		76-81'-Andste F.P. dyke 114-115.5'-Andste F.P. dyke. Ctc at 45° 127-132'-Andste F.P. dyke. Ctc irreg. Top ctc looks like andste dyke cut F.P. dyke. Bot ctc not sharp.
191.5- 414.0	Amyg'l Andste P.L.	Grn-gry to buff	M.f.g.		Well pil'd. Amyg'l. Small bx'd sections.	Qtz-carb, sauss. Minor chl.	Minor scat py, pyrr. Tr cp.	385-391.5'-Andste F.P. dyke Top ctc at 30°. Bot ctc at 45°.
414.0- 477.0	Andste Dyke	Grey	M.f.g.	Uniform	Mod'ly fract'd.	Qtz-carb in fract'g.		418.5-421.5'- Lost core. Fault zone?
477.0- 591.0	Dioritized Andste	Grn- gry	M.f.g.					509-514' - Fracture zone (steep) with tr hematite. 575.5-576' - Qtz stringer at 20° bearing py, tr cp. 580-584' - Shear zone at 70° (d) bearing qtz, py, tr cp and hematite.
591.0- 670.0	Sauss'zd Por Andste	Grn- grey	M.g.	Por (qtz).	Weakly fract'd at 10-30° and 50°.	Sauss'n. Chl assoc with fract.	Minor py in fracts.	
670.0- 719.5	Sauss'zd Amyg'l Andste P.L.	Grn- grey	M.g.		Pillowed. Amyg'l. Mod'ly fract'd.	Sauss'n. Minor chl.	Scat py.	
719.5- 737.0	Fract'd Andste	Gry	M.f.g.		Mod'ly fract'd.	Sericite.		

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
737.0-750.0	Sericite Schist Amyg'l Andste Fault Zone	Grn-gry	M.g.		Strong sheared in part.	Sericite.		Gaugy.
750.0-906.0	Amyg'l Andste P.L.	Grn-gry	M.g.		Some brecciation. Mod-strong fract'g.	Sauss'n in pt. Epidote, hematite assoc with steep fracturing.	Minor scat py, pyrr.	
906.0-914.0	Amygd'l Andste	Grn-gry	M.g.			Amygs chl and qtz-carb filled.		
914.0-928.0	Por'ic Andste Dyke	Dark grn	M.f.g.	Flecked with felds.	Weakly fract'd.	Qtz and qtz-carb fract filling.		Top etc irreg.
928.0-962.5	Dior'zd Andste	Dark grn-gry	M.f.g.		Weakly fract'd.	Dioritized. Qtz-carb, epidote in fract'g.		
962.5-1054.0	Weakly Amyg'l Andste	Dark to light grn-gry	M.f.g.		Weakly amyg'l. Strongly fract'd.	Sauss'n. Qtz-carb, epidote in fract'g.	Weak scat py.	968 - Faulting at 50° (d) 985.5-Faulting at 50° (d) 1007-1008.5'- Faulting-broken ground.
1054.0-1112.0	Uniform Andste	Grn	M.f.g.		Mod'ly to strongly fract'd at 0°-30° (d) also 65° (d).	Mod chl. Qtz-carb, and epid.		
1112.0-1119.5	Strongly Sheared Andste Fault Zone	Light grn	M.f.g.		Strongly fract'd and sheared.	Sericite. Epidote and carbonate in fract'g.	Tr py.	

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
1119.5-1219.0	Amyg'l Andste P.L.	Lt-grn	M.f.g.		Weakly amyg'l. Mod'ly pil'd. Mod'ly fract'd.	Sauss'd. Strongly bleached in part. Qtz-carb and epidote.		V-106? 1172-1177' - Andste F.P. dyke & tcs at 20° (d) Tr sph, cp. 1177-1178 - Fault or shear zone.
1219.0-1259.0	Weakly Amyg'l Andste	Buff-grn	F.g.		Weakly amyg'l. Mod'ly fract'd.	Minor chl. Qtz-carb and epidote in fract'g.	Tr py.	1237.5-1259' - Fault zone. Strongly fract'd. Bx'd in pt. Sheared at 50-60° (d).
1259.0-1393.0	Amyg'l Andste P.L.	Grn-gry	M.f.g.		Well pil'd. Weakly amyg'l. Weakly fract'd.	Bleached in pt. Weak hematite staining. Minor qtz-carb in fract'g.		1316-1317' - f.g. andste dyke 1323-1327' - f.g. andste dyke 1333-1334' - F.g. andste dyke 1393' - Str sh zone at 70° (d) Gauge and qtz-carb.
1393.0-1423.0	Amygd Andste (Siliceous)	Grey	F.g.		Amyg'l.	Siliceous.	Weak scat py, pyrr. Tr cp.	1415-1423' - Strong fault zone at 70-80° (d). Qtz-carb.
<u>END OF HOLE</u>								
1423.0-1432.5	Massive Andesite	Med grey	F.g.		DEEPENED OCT. 1966 Massive. Mod sheared.	Strong ca. Qtz-ca filled frs.		Fault zone. Shearing 45°
1432.5-1725.0	Diorite	Med grey	M.g.		Massive. Weakly fract'd. (40-80° frs).	Odd 30-75° qtz-ca stgr.	Sparse diss py.	1522-1522.5' - 65° fault 1565-1567' - Alt diorite at 1566' 4" carb stgr. At 1647' 3" 65° qtz-ca fault. At 1701' 1" 40° fault.
1725.0-1731.5	Andesite Dyke	Med grey	M.f.g.	Porph (fs).	Massive. Weakly fract'd.			Cts 45°.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
1731.5-1844.0	Diorite	Med grey	M.g.		Massive. Weakly to mod fract'd.	Qtz-sauss filled frs.		Frs 40-70°. 1806-1809'-alt diorite. (qtz-ca frs) 1836-1839'-Fault schistosity 40-45°.
1844.0-1855.5	Fault Zone	Light grn grey	F.g.		Locally schistose and locally brecciated.	Strong ca.		Fault breccia and schist. Schistosity 35-45°
1855.5-1919.0	Massive Andesite	Dark grey	F.g.	Very weakly porph (fs).	Massive. Mod to strongly fract'd.	Ca-ser filled frs. Odd patch sauss.		Frs 40-65° Minor hematite in frs towards end of sect.
1919.0-1998.0	Amygd Andesite	Dark grey	F.g.		Very weakly amygd. Weakly to mod fract'd.	Local sects with biotite-ca-sauss. Minor epid.		Odd questionable pillow bdr. Frs 20-80° 1968' 3" 45° qtz ca fault. 1968.5'-1971'- purple silic and chl spotting. 1971'-1983' - Core missing error made by drillers.
1998.0-2007.0	Brecciated Andesite	Buff grey	F.g.		Strongly brecciated. Weakly sheared.	Strong ca.	Minor py.	Fault? Shearing 45-60°
2007.0-2065.0	Massive Andesite	Dark grey	F.g.		Massive. Mod fract'd. Weakly sheared.	Scattered sauss-epid pods. Ser filled frs.		Frs 30-60° 30-60° joints and slips. 2048-2052'- granitized andesite.
2065.0-2067.0	Granite	Pinkish grey	F.g.		Massive.	Minor epid.	Finely diss py.	Cts 45 and 10°.
2067.0-2084.0	Massive Andesite	Dark grey	F.g.		Massive. Mod fract'd.			2070-2071'- granite Cts 45°
2084.0-2096.0	Alt Andesite	Buff grey	F.g.		Massive.	Intense ca.		2085-2086' 30° fault (Qtz-ca)

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
2096.0-2233.0	Massive Andesite	Dark grey	M.f.g.		Massive. Mod fract'd.	Weakly dioritized. Weak ca.		Frs 45-65° 2128-2128.6' granite cts 40° and 30° 2196' 3" 45° qtz ca stgr.
2233.0-2321.0	Massive Andesite	Dark grey	F.g.		Massive. Weakly to mod fract'd.	Local strong ca. Qtz-ca filled frs.		2254' 3" 30° qtz-ca fault. Strong ca altn to 2396.
2321.0-2322.0	Rhyolite Breccia	Purplish grey	F.g.	Fragmental Purple silic frags.	Strongly brecciated.	Chl groundmass.	Diss and odd patch of py.	At 2321.5' 3" granodiorite stgr with qtz selvages.
2322.0-2357.0	Massive Rhyolite	Med to dark grey	F.g.		Massive. Mod fract'd.	Qtz-ca filled frs.	Minor finely diss py.	2340-2343' 2344.5-2345.5' Grn grey f.g. Andesite dykes.
2357.0-2372.0	Altered Massive Rhyolite	Light grn grey	F.g.		Massive. Mod fract'd.	Sauss-epid. Minor chl spot. Qtz-ca filled frs.	Minor finely diss py.	2359.5-2361' Alt and sheared rhyolite shearing at 30°
2372.0-2380.0	Rhyolite Dynamic Breccia	Med grey	F.g.		Strong fracture breccia.	Qtz-ca chl filled frs. Weak sauss. Local weak chl spot.	Minor finely diss py po.	45-65° joints.
2380.0-2386.0	Alt Andesite Dyke	Grn grey	F.g. to aph		Massive. Strongly fract'd. Locally sheared.			Local 35° shearing cts 20 and 30°.
2386.0-2416.0	Rhyolite Breccia	Med grey	F.g.	Fragmental Silic frags.	Brecciated. Weakly fract'd.	Chl spot and rag. Dusty ser. Ca filled frs.	Odd patch py.	2387.5'-2389' Grano-diorite stgr cts ground and 60°
END OF HOLE								

LAKE DFAULT MINES LTD.

Drill Hole Record

Hole No. <u>N-379</u> Lat. <u>19,708.0</u>		Dep. <u>14,650.0</u>		Elev. <u>11,250.11</u>		Dip <u>-90°</u>		Bearing <u>---</u>		Depth <u>2,212'</u>			
Working Place (Ar)		Date Started <u>Sept 7, 1966</u>		Compass Tests		Acid Test		SAMPLED SECTIONS					
Date Completed <u>Oct 18, 1966</u>		Depth		Dip		M.Brng.		Depth		Read		Corr.	
		Depth		Read		Corr.		From		To		C.L.	
		20'		89		3/4°		89		1/2°			
		500'		89		1/4°		88		3/4°			
		1000'		88		1/2°		88		0°			
		1500'		88		3/4°		88		0°			
		2000'		88		1/2°		87		1/2°			

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
0.0-4.0								Casing.
4.0-204.0	Massive Andesite	Dark grey	F.g.		Massive. Weakly fract'd. 40-80° and 5° jointing.	Weakly dioritized.		4'-40' Mod blocky. Rust plated joints.
204.0-293.0	Massive Andesite	Dark grey	F.g.		Massive. Weakly fract'd. 40-80° jointing.	Weakly dioritized. Stgrs of green chl.	Odd speck py.	
293.0-307.0	Sheared Andesite	Med to dark grey	F.g.		Massive. Weakly sheared.	Odd qtz-ca hematite stgr.		Shearing 35-55°.
307.0-456.0	Massive Andesite	Dark grey	M.f.g.	Weakly porph.	Massive. Weakly fract'd.	Weakly dioritized.		
456.0-609.0	Amygd Andesite P.L.	Grn grey	M.f.g.		Weakly to mod amygd and pillowed.	Strong patches sauss. Minor epid. Chl rag and patches. Trace of biotite.		
609.0-622.0	Andesite Dyke	Bluish grey	F.g.		Massive. Mod fract'd.	Intense ca.		Cts 40° and irregular.

Hole No. N-379

Logged by D.M.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
622.0-659.0	Amygd Andesite P.L.	Grn grey	M.f.g.		Weakly amygd and mod pillowed.	Strong sauss epid. Scattered patches of qtz.		
659.0-673.0	Massive Andesite	Med grey	F.g.		Massive. Mod fract'd. Weakly sheared.	Some sauss.		Shearing 40-45° Qtz-ca filled frs.
673.0-685.0	Sheared Andesite	Grn grey	F.g.		Weakly amygd. Weakly to mod sheared.	Sauss. Qtz ca filled frs. Local hematite.		Shearing at 40° Odd low angle slip.
685.0-715.0	Amygd Andesite	Grn grey	M.f.g.		Mod amygd. Weakly fract'd and sheared.	Patchy albitite. Local sauss-epid.		706-708' Fault zone. Numerous qtz-ca seg stgrs. Shearing at 45° to 60°.
715.0-744.0	Massive Andesite	Dark grey	F.g.		Massive. Weakly fract'd.	Ser speck.		
744.0-778.0	Amygd Andesite	Grn grey	M.f.g.		Weakly amygd. Blocky. Weakly fract'd.	Pod of sauss epid. Minor albitite.	Minor py.	Few hematite plated slips. 40° and low angle
778.0-792.0	Massive Andesite	Grn grey	F.g.		Massive. Weakly fract'd.	Sauss-epid.		
792.0-797.0	Fault Zone	Grn grey	F.g.		Highly sheared.	Strong ca. Shot through with qtz-ca.	Diss py.	Shearing 45-65°.
797.0-827.0	Alt Andesite	Dark grey	F.g.		Massive. Very strongly fract'd. Slightly sheared.	Ca filled frs.		Cross fracturing 40° and 80°.
827.0-842.0	Fault Zone	Reddish Greenish grey	F.g.		Intensely fract'd.	Epid hematite ca.	Minor py.	35° shearing.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
842.0-861.0	Alt Andesite	Dark grey grn	F.g.		Strongly fract'd. Mod sheared.	Ca. Qtz-ca filled frs.		35-45° shearing.
861.0-863.0	Fault	Grn grey	F.g.		Sheared.			Sheared andesite 40° shearing.
863.0-876.0	Alt Andesite	Grn grey	F.g.		Mod fract and sheared.			Local 30-45° shearing.
876.0-886.0	Fault Zone	Light grn grey	F.g.		Sheared. Locally schistose.	Ser-ca qtz-hematite epid.		40-45° shearing.
886.0-923.0	Alt Andesite	Grn grey	F.g.		Mod fract'd and sheared.	Ca-qtz. Patches sauss epid. Ca filled frs.		20° slips some with gauge. Also 45 to 60° slips.
923.0-928.0	Fault Zone	Med grey	F.g.		Brecciated and sheared.	Qtz-ca.		Shearing 35°.
928.0-955.0	Alt Andesite	Med grey	F.g.		Massive. Sheared mod fract'd.	Sauss. Qtz-ca filled frs.		35° and 15° slips some hematite plated.
955.0-965.0	Fault Zone	Grn grey	F.g.		Strongly sheared.	Shot through with qtz-ca.		10-35° shearing. 963-964': Qtz ca stgr. Cts irregular and 10°.
965.0-1009.0	Massive Andesite	Med to dark grey	F.g.		Massive. Mod fract'd and sheared.	Qtz-ca filled frs. Some hematite plated slips.	Minor py.	10-35° shearing.
1009.0-1033.0	Amygd Andesite	Med to dark grey	F.g.	Locally weakly porph.	Weakly amygd. Weakly to mod fract'd.	Minor sauss.	Minor py.	Cts 45°.
1033.0-1244.0	Diorite	Med grey	Med to coarse gr.		Massive. Weakly fract'd.	Minor epid.	Minor diss py.	1225-1230' 35-45° fault.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
1244.0- 1256.0	Fault Zone	Med grey	Med to coarse grain.		Sheared.	Shot through with ca. Minor hematite.		High angle fault. Shearing 5°.
1256.0- 1333.0	Diorite	Med grey	M.g.		Massive. Weakly fract'd.	Minor epid.		45° jointing. Odd joint hematite plated. 1287 ^f -1289 ^f Highly broken (cave). Fault? D.H.B. Thrust?
1333.0- 1340.0	Alt Diorite	Med grey	F.g.		Fract'd and sheared.	Strong ca. Ca filled frs.		55° shearing (minor thrust fault).
1340.0- 1503.0	Diorite	Med grey	M.g.		Massive. Weakly fract'd. (45° frs).	Minor epid.		1396 ^f -1401 ^f Strong fract'd. Qtz-ca filled frs. 1440 ^f -1445 ^f F.g. grn grey andesite dyke cts irregular.
1503.0- 1548.0	Diorite	Med grey	F.g.		Massive. Mod fract'd. Weakly sheared.	Ca and ser filled frs.		40-75° frs.
1548.0- 1558.0	Sheared Diorite	Med grey	F.g.		Strongly fract'd. Locally schisto- se.	Ca filled frs.		45° shearing. West Valley Thrust?
1558.0- 1598.0	Amygd Andesite P.L.	Grn grey	M.f.g.		Weakly amygd. Broadly pil.	Strong sauss patch. Minor epid. Mod chl rag and minor albitite.		40-60° ser-hematite plated joints.
1598.0- 1618.0	Amygd Andesite	Med to dark grey	M.f.g.		Very weakly amygd. Weakly fract'd.	Ser speck. Odd sauss epid pod.		35-40° joints.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
1618.0-1813.0	Massive Andesite	Med to dark grey	M.f.g.		Massive. Weakly to mod fract'd.	Odd sauss epid pod. Ser speck. Weak sauss. Odd 80° qtz stgr.		Low angle and 45° joints. Blocky to 1768'.
1813.0-1848.0	Massive Andesite	Med grey	M.f.g.		Massive. Weakly fract'd.	Weakly dioritized.		45-65° frs. 1839'-1842' 5-10° fault.
1848.0-1894.0	Amygd Andesite P.L.	Pale to dark grn grey	M.f.g.		Weakly to mod mod amygd. Strongly pillowed. Weakly fract'd.	Strong sauss minor epid chl rags and patches. Chl filled amygds.		1861'-1864' Some biotite altn.
1894.0-2070.0	Amygd Andesite P.L.	Grn grey	F.g.		Mod amygd. Weakly to mod fract'd. Very broadly pillowed.	Ser speck. Scattered patches of sauss-e epid. Ca ser filled frs. Qtz sauss filled amygds.	Odd patch of py.	Frs 40-65°.
2070.0-2075.0	Fault Zone	Med grey	F.g.		Sheared.	Shot through with qtz-ca.		Shearing at 20°.
2075.0-2111.5	Amygd Andesite	Grn grey	M.f.g.		Weakly amygd. Weakly fract'd.	Sects of strong sauss. Minor epid altns.	Odd speck of py.	
2111.5-2132.0	Amygd Andesite	Dark grey	F.g.		Very weakly amygd. Weakly fract'd. Weak shearing.	Weak sauss.	Minor finely diss py. Odd patch of py.	Odd 35-55° slip.
2132.0-2138.0	Bedded and Massive	Buff grey	F.g.		Massive and strongly bedded. Weakly fract'd and sheared.		Finely diss py. Odd patch of py.	Andesite? Dacite? Tuff. 2132'-2134' Bedded tuff bedding 65-70°. Local shearing. Near ct 70° 2134'-2138' Massive tuff.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
2138.0- 2140.5	Andesite Crystal Tuff	Buff grey	M.f.g.	Fs frags? Crystals in f.g. buff grey ground- mass	Massive. Weakly sheared.		Finely diss py.	30-65° slips.
2140.5- 2155.5	Andesite Dyke	Dark grey	f.g.		Massive. Mod. shearing.			Cts ground 35° slips. 2150.5-2151.5
2155.5- 2170.0	Fault zone	Grn-grey	F.g.		Brecciated & broken	Shot through with		Brecciated & broken andesite dyke. 2.0 lost core. 25° shearing.
2170.0- 2174.5	Andesite Dike	Dark grey	F.g.		Massive not fract. and broken.			Cts ground.
2174.5- 2212.0	Massive Rhyolite	Med.grey	Very f.g.	Weakly porph. Pseudo porph (fs)	Massive. Weakly fract'd and sheared	Weak chl. speck and spot.	Very weak finely diss. py.	Weak 45° flow banding in upper 1.0' of sect. 50° slips.
END OF HOLE								

LAKE DFAULT MINES LTD.

Drill Hole Record

Hole No.	N-380	Lat.	20,935.0	Dep.	13,360.0	Elev.	11,188.34	Dip	-90°	Bearing	---	Depth	1,612'	
Working Place	(Ae)	Date Started	Sept 28, 1966	Date Completed	Oct 31, 1966	Compass Tests			Acid Test			SAMPLED SECTIONS		
		Depth	Dip	M.Brng.	Depth	Read	Corr.	From	To	C.L.	Cu	Zn	Au	Ag
		25'			89 1/2°	89	89							
		500'			89 3/4°	89 1/2°	89 1/2°							
		999'			89 3/4°	89 1/2°	89 1/2°							
		1500'			89 3/4°	89 1/2°	89 1/2°							

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
0.0-21.0								Casing.
21.0-86.0	Diorite	Med grey	M.g.		Massive. Weakly fract'd.	Minor epid. Odd hematite plated slip.		
86.0-88.5	Andesite Dyke	Dark grey	F.g.		Massive.			Cts 55° (chilled).
88.5-128.0	Massive Andesite	Med grey	M.f.g.		Massive. Weakly fract'd.	Dioritized.		Frs 35-80°
128.0-198.0	Porph Andesite	Med to dark grey	M.f.g.	Porph.	Massive. Weakly fract'd.	Weak sauss.		
198.0-278.5	Amygd Andesite P.L.	Dark grey	F.g.		Strongly amygd. Very broadly pillowed. Weakly fract'd.	Weak sauss. Odd patch of albitite. Chl and sauss filled amygd.		Odd speck py and cp.
278.5-284.0	Massive Andesite	Dark grey	F.g.		Massive. Weakly fract'd.	Weak ser speck.		Cts 65-50°
284.0-312.0	Andesite Dyke	Dark grey	F.g.	Very weakly porph (fs)	Massive.	Weakly dioritized.		Cts 55 and 70°

Hole No. N-380

Logged by D.M.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
312.0-344.0	Amygd Andesite	Med grey	F.g.		Weakly to mod amygd. Odd questionated pillow bdr. Weakly fract'd.	Odd patch of sauss-qtz chl.	Odd amygd filled with py.	Odd small sect of flow bx. Local cooling frs. 325'-326' sauss-qtz-chl-po.
344.0-361.0	Andesite Flow Breccia	Grn grey	M.f.g.		Strongly brecciated. Mod amygd. Weakly fract'd.	Patchy sauss. Minor albitite and chl.	Odd speck of cp.	
361.0-427.0	Amygd Andesite	Dark grey	F.g.	Porph(fs)	Massive. Weakly fract'd.	Dusty ser-ser speck.	Odd speck of cp in amygds.	Odd 40-60° hematite and ser plated joints. Gradational ct with the following sect.
427.0-604.0	Massive Andesite	Dark grey	F.g.	Very weakly porph(fs)	Massive. Weakly fract'd.	Weakly dioritized.	Odd speck cp.	60° frs.
604.0-724.0	Amygd Andesite P.L.	Light grn grey	M.f.g.		Mod amygd and pillowed. Weakly fract'd.	Strong sauss. Minor chl spot and rag. Minor albitite.	Odd patch of py-ppo cp.	Bleached andesite. 685-689' Med grey f.g. andesite dyke. Cts 50°.
724.0-857.0	Massive Andesite	Med grey	M.f.g.		Massive. Weakly fract'd.	Dioritized. Local sects of sauss altn.		Upper ct 65°.
857.0-864.0	Amygd Andesite P.L.	Grn grey	M.f.g.		Mod amygd and pillowed.	Strong sauss weak chl speck and patch.		Cts ground and 60°.
864.0-906.5	Diorite	Med grey	M.f.g.		Massive. Mod fract'd	Weak epid. Ca-ser filled frs.		Fracturing increasing in intensity towards end of sect.
906.5-936.0	Fault Zone	Med grey to grn grey	M.f.g.		Very strongly fract'd. Local shearing.	Ca filled frs.		Alt diorite? Shearing 45-50° Frs 45 to 80° D.H.B. Thrust?

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
936.0-1070.0	Amygd Andesite P.L.	Grn grey	M.f.g.		Mod amygd and pillowed. Weakly to mod fract'd.	Patchy sauss. Sects of strong sauss-local weak epid. Chl speck and patch altn.	Odd speck of cp.	Mod fract'd in upper 11'. 944-946' Dark grey f.g. andesite dyke.
1070.0-1147.0	Massive? Amygd? Andesite	Med grey	M.g.		Massive. Weakly to mod fract'd.	Dioritized. Qtz-ca filled frs.		Cts gradational and irregular (25°) 65° frs. Local suggestion of amygds.
1147.0-1340.0	Amygd Andesite P.L.	Grn grey	M.f.g.		Mod amygd and pillowed. Weakly fract'd.	Sauss chl filled amygds. Strong sauss. Some chl spot and rag.	Trace of po.	1255'-1255.5' 75° qtz-ca fault. 1283'-1340' Very strong sauss and some epid altn.
1340.0-1386.0	Massive Andesite	Med grey	M.g.		Massive. Weakly fract'd.	Strongly dioritized.		Frs 45° and 80°.
1386.0-1396.0	Amygd Andesite P.L.	Grn grey	M.f.g.		Mod amygd and pillowed. Weakly fract'd.	Local sauss. Weakly dioritized.	Scattered stgrs and patches of po.	1394-1394.5' Po-blk chl stgrs. Cts 50 and 35°
1396.0-1410.0	Amygd Andesite	Med grey	M.f.g.		Weakly amygd.	Weakly dioritized.	Odd small patch po.	
1410.0-1475.0	Amygd Andesite P.L.	Dark grey	M.f.g.		Mod to strongly amygd. Weakly pillowed. Mod fract'd.	Sauss-chl. Chl filled amygds.	Local heavy patches of po.	1431'-31.5 Fault shearing at 25°
1475.0-1477.0	Qtz vein	White				Minor ser.		Cts ground.
1477.0-1493.5	Amygd Andesite	Med grey	M.f.g.	Weakly porph.	Weakly amygd and fract'd.	Ser speck chl speck.	Odd patch po-py.	
1493.5-1495.0	Fault Zone	Med grey	F.g.		Sheared and fract'd.	Shot through with qtz-ca.	Odd patch py.	Shearing at 65°

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
1495.0- 1503.0	Crystal Tuff	Grn grey		Frag white fs crystals.	Massive.			Odd stgr of po. Andesite tuff.
1503.0- 1508.0	Bedded Tuff	Med grey	F.g.		Strongly bedded.			Bands of po- minor py, trace of cp. Bedding 50° 1503.5'-1504.3' Andesite inclusion.
1508.0- 1513.0	Rhyolite Ex.	Bluish grey	F.g.	Fragmen- tal.	Strongly brecciated.			Diss po-py.
1513.0- 1585.0	Massive Rhy	Med grey to bluish grey	F.g. to aph.	Porph (pseudo porph)(fs)	Massive. Weakly fract'd. Mod blocky.	Scattered patchy sauss.		Minor finely diss py-po. 45-70° joints. 1550' on mod finely diss py-po.
1585.0- 1589.5	Andesite Flow Breccia	Grn grey	M.f.g.		Strong flow bx. Weakly amygd.	Patchy sauss. Local chl rag.		Minor diss po. Flow top breccia.
1589.5- 1600.0	Amygd Andesite	Med to dark grey	F.g.		Weakly amygd and fract'd.	Weakly dioritized. Chl and odd qtz filled amygd.		Odd patch py-po. Local diss py.
1600.0- 1612.0	Massive Andesite	Med grey	M.f.g.	Very weakly porph.	Massive. Weakly fract'd.	Dioritized. Local patches of sauss.		Gradational ct.
END OF HOLE.								

LAKE DUFALT MINES LTD.

Drill Hole Record

Hole No <u>N-381</u> Lat. <u>18,928.04</u> Dep. <u>13,658.61</u> Elev. <u>11,033.76</u>		Dip <u>-90°</u> Bearing <u>—</u> Depth <u>1,671'</u>												
Working Place (Dp)	Date Started <u>Oct 6, 1966</u>	Compass Tests		Acid Test		SAMPLED SECTIONS								
	Date Completed <u>Oct 27, 1966</u>	Depth	Dip	M.Brng.	Depth	Read	Corr.	From	To	C.L.	Cu	Zn	Au	Ag
		Depth		Read		Corr.								
		<u>14'</u>		<u>89 1/4°</u>		<u>89°</u>								
		<u>500'</u>		<u>89 1/2°</u>		<u>89°</u>								
		<u>1000'</u>		<u>88 1/2°</u>		<u>88°</u>								
		<u>1500'</u>		<u>88°</u>		<u>87°</u>								

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
0.0-11.0								Casing.
11.0-49.0	Diorite	Med grey	F.g.		Massive. Weakly to mod fract'd.			40-65° frs. Far ct chilled over 4.0'.
49.0-57.0	Fault Zone	Buff grey	F.g.		Strongly sheared and fract'd. Locally brecciated.	Intense ca shot through with ca.	Odd speck of py.	Highly alt sheared andesite. 40° shearing.
57.0-98.0	Amygd Andesite	Dark grey	F.g.		Very weakly amygd. Weakly fract'd.	Odd qtz-clot sauss-ca filled frs.	Odd patch of py.	
98.0-310.0	Diorite	Med to dark grey.	F.g.		Massive. weakly to mod fract'd.	Ser-ca-qtz filled frs.		40-60° frs. Upper ct 50°.
310.0-316.0	Sheared Diorite	Med grey	F.g.		Schistose.	Shot through with qtz-ca.		Schistosity 25°-35° Ser-ca schist. (West Valley Thrust).
316.0-437.0	Diorite	Med grey	F.g.		Massive. Mod fract'd.	Qtz-ser-ca filled frs.		

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
437.0-451.0	Silic Andesite Dyke	Med grey.	F.g.	Locally weakly porph (fs).	Massive. Locally brecciated. Weakly fract'd.	Locally silic. Local chl.		Locally brecciated. Cts 70°.
451.0-512.0	Diorite	Med grey	F.g.		Massive. Weakly fract'd.	Qtz-ser filled frs.		Far ct 70°
512.0-541.0	Amygd Andesite	Dark grey	F.g.		Weakly amygd. Weakly fract'd.	Weak ser speck.		Frs 30-60°. Gradational cts.
541.0-650.0	Massive Andesite	Dark grey	F.g.	weakly porph (fs).	Massive dioritized. Qtz-ca ser filled frs. Odd pod sauss epid.			Frs 45-75°
650.0-757.0	Amygd Andesite	Med to dark grey	M.f.g.	Weakly porph(fs).	Weakly amygd. Weakly fract'd.	Weakly dioritized. Odd pod sauss.		
757.0-863.0	Amygd Andesite P.L.	Med grey	M.f.g.		weakly amygd broadly pillowed.	Dioritized Sects and pods of sauss.		840-842': Fault. Strong shearing at 45° shot through with ca.
863.0-905.5	Amygd Andesite P.L.	Mottled grey	M.f.g.		Mod amygd and pillowed. Weakly fract'd.	Patchy sauss-albite-chl rag and spot.		
905.5-953.0	Massive Andesite	Med grey	M.f.g.		Massive.	Dioritized.		Cts irregular and 35°
953.0-1063.5	Amygd Andesite	Med to dark grey	M.f.g.	Weakly porph(fs).	Weakly to mod amygd. Weakly fract'd.	Weak ser. Odd sauss patch and pod.	Trace of py-po.	953-961': Weak biotite altn.
1063.5-1243.0	Amygd Andesite P.L.	Dark grey	M.f.g.	Weakly porph(fs).	Mod amygd and pillowed.	Sauss-chl filled amygds. Scattered pods and patches of sauss. Minor chl rag.	Scattered patches of po.	

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
1243.0- 1294.0	Amygd Andesite P.L.	Dark grey	M.f.g.		Weakly amygd and very broadly pillowed. Weakly to mod fract'd.	Odd patch and sect of sauss. Local chl spot. Local biotite.	Minor py.	
1294.0- 1584.0	Massive Andesite	Dark grey	F.g.	Weakly porph.	Massive.	Dioritized. Ser speck. Local chl rag.	Odd speck py.	1328'-1328.5': 80° grano-diorite stgrs. 1443'-1444' 1449'-1450' Grano-diorite 1492.5'-1493 stgrs. 1535'-1536.5' 1430'-1434' : Strong ca altn. Local 60° shearing.
1584.0- 1584.3	Qtz-ca minor ser vein.	Light grey	F.g.		Sheared.		Po and minor cp.	Cts 50°. Small fault.
1584.3- 1589.5	Massive Rhyolite	Grey	F.g.		Massive.		Odd patch and minor diss py-po.	1584.3'-1586' sheared and alt.
1589.5- 1657.0	Rhyolite Breccia	Grey	F.g.	Fragmen- tal.	Breccia.	Sauss, light grey and chl speck and rag.	Diss and patches of py-po.	Fragmental appearance maybe due to altn. 1630'-1632' andesite dyke.
1657.0- 1671.0	Massive Rhyolite	Med grey	F.g.		Massive.	Strong chl specks and light grey.	Minor finely diss py.	Local 45° flow banding.
					END OF HOLE.			

LAKE DFAULT MINES LTD.

Drill Hole Record

Hole No. <u>N-382</u> Lat. <u>18,060.0</u>		Dep. <u>19,960.0</u>		Elev. <u>11,009.99</u>		Dip <u>-90°</u>		Bearing <u> </u>		Depth <u>2,020'</u>	
Working Place (Fe)		Date Started <u>Oct 7, 1966</u>		Date Completed <u>Nov 4, 1966</u>		SAMPLED SECTIONS					
		Compass Tests			Acid Test			From		To	
		Depth	Dip	M.Brng.	Depth	Read	Corr.	C.L.	Cu	Zn	Au
		Depth			Read	Corr.					
		25'			89 1/2°	89					
		500'			88 1/2°	87 1/2°					
		1000'			89 1/2°	89					
		1500'			89 3/4°	89 1/2°					
		2000'			89 3/4°	89 1/2°					
Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks			
0.0- 24.0								Casing. Core from 22.0'.			
24.0- 42.0	Amygd Andesite	Brownish to dark grey.	F.g.		Weakly amygd.	Dusty ser. Weak biotite. Insipient chl dalm.	Diss and patches of py-cp.	Could be a fragmental. Odd rounded siliceous frag. Frs 45°-80° and low angle.			
42.0- 113.0	Amygd Andesite Breccia	Dark grey.	F.g.	Fragmen- tal. Scattered rounded silic frags.	Weakly amygd. Mod fract'd.	Local biotite. Dusty ser weak sauss.	Patches and diss py-cp.	Gradational upper ct. Frs 45-80° and low angle.			
113.0- 119.5	Fault Zone	Grn grey.	M.f.g.		Strongly brecciated.	Intense ca.		Fault breccia. Low angle fault.			
119.5- 134.0	Andesite Breccia		F.g.	Fragmen- tal. (Silice- ous frags)	Brecciated. Strongly fract'd.	Ca and ca filled frs.	Diss and patches of py.				
134.0- 232.0	Amygd Andesite	Brownish to grn grey.	M.f.g.		Weakly amygd. Strongly fract'd.	Strong ca. Ca filled frs. Local strong biotite.	Odd patch of py-cp.	Odd rounded siliceous frag. Frs 45°-60° and low angle.			

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
232.0- 436.0	Amygd Andesite	Dark bluish grey.	M.f.g.		Weakly to mod amygd. Weakly fract'd.	Ca-ser filled frs. Ser speck and scatte- red patchy sauss. Odd 35° qtz stgr. Trace of biotite.	Scattered patches and specks of py-cp.	Frs 45-60° and low angle.
436.0- 474.0	Amygd Andesite	Bluish grey to grn grey.	M.f.g.		Very weakly amygd. Weakly to mod fract'd.	Ca-ser filled frs. Scattered small sauss epid patches. Local sects with chl spot altn. Odd 35°-45° qtz stgr.	Odd speck of cp. Mos2 in qtz stgrs.	45-65° frs.
474.0- 567.0	Amygd Andesite P.L.	Dark bluish to grn grey.	M.f.g.		Weakly amygd. Broadly to mod pillowed.	Scattered patches sauss epid. Minor albitite. Minor chl spot and rag. Trace of biotite.	Sparse py. Odd speck cp.	Gradational ct.
567.0- 605.0	Amygd Andesite	Grn grey.	M.f.g.		Weakly to mod amygd. Weakly fract'd.	Odd 40° qtz stgr. Scattered qtz-clots. Weak sauss chl.	Odd spot of cp.	
605.0- 617.5	Massive Andesite	Med grey	F.g.		Massive.	Weakly dioritized.		Cts 50° and ground.
617.5- 677.0	Amygd Andesite	Bluish grey.	F.g.		Mod amygd. Weakly fract'd.	Widely scattered small pods sauss. Sauss filled amygd.	Odd speck cp.	
677.0- 688.0	Andesite Dyke.	Light to med grey.	M.g.		Massive.	Dioritized.		Cts 60° and irregular.
688.0- 746.0	Amygd Andesite P.L.	Grn grey.	M.f.g.		Weakly amygd and pillowed. Weakly fract'd.	Ser-sauss local biotite. Local chl spot and patches.		At 734' 6" qtz stgr. Cts 25°.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
746.0-882.0	Amygd Andesite	Mottled grn grey.	M.f.g.		Weakly to mod amygd and fract'd.	Patchy sauss chl spot and rag. Odd 25° qtz stgr. Qtz-ca filled frs. Local silic.	Cp. MOLY in qtz stgrs.	60° frs. Local silic.
882.0-904.0	Amygd Andesite P.L.	Grn grey.	M.f.g.		Weakly amygd and pillowed.	Patchy sauss-ser. Minor chl. Odd 35° qtz stgr.		35° shrinkage frs at start of sect.
904.0-937.0	Massive Andesite	Dark grey.	F.g.		Massive. Weakly fract'd.	Ser. Minor biotite. Mod to strong dalm. Qtz-ca filled frs.	Local diss py. Odd patch py.	Mod to strong chl dalm.
937.0-1054.0	Silic Andesite	Med to dark grey.	F.g.		Massive. Weakly fract'd.	Ser. Odd 35° qtz stgr. Qtz-ca filled frs.	Diss and odd patch py. Local diss cp. MoS ₂ cp in qtz stgrs.	Local flow banding.
1054.0-1126.0	Amygd Andesite	Dark grey.	F.g.		Weakly amygd. Weakly fract'd.	Dalm. Mod ser weak biotite.	Scattered patches of po-py. Local diss po-py.	Local strong dalm.
1126.0-1139.0	Diorite	Med to dark grey.	F.g.		Massive. Highly fract'd. Locally sheared.	Ca-ser filled frs. Local qtz-ca stgr.	Minor cp in qtz-ca stgrs.	45° and low angle frs. Local 45° shearing.
1139.0-1234.0	Diorite	Med grey.	M.g.		Massive. Weakly fract'd.	Odd qtz-stgr.	Minor cp in qtz-stgrs.	35 and 60° qtz stgrs.
1234.0-1240.0	Fault Zone	Light grn grey.	F.g.		Schistose.	Odd qtz-ca stgr.	Minor py-po.	Ca-ser schist. Schistosity 65°.
1240.0-1295.0	Diorite	Med grey.	M.g.		Massive. Weakly fract'd.		Minor py.	45-60° frs.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
1295.0-1300.0	Fault Zone	Med grey	F.g.		Massive. Locally strong sheared.	Strong ca. Odd qtz-ca stgr.		Alt and sheared diorite. 45° shearing.
1300.0-1350.0	Amygd Andesite	Grn grey	F.g.		Weakly amygd and fract'd.	Ser speck. Chl patch and spot. Local silic.	Local minor finely diss py. Trace of cp.	65-80° frs.
1350.0-1404.0	Amygd Andesite	Dark grey	F.g.		Weakly amygd. Weakly to med fract'd.	Chl spot and rag. Mod ser. Ser-ca filled frs. Odd qtz stgr. Local ca.		Frs 45-80°.
1404.0-1423.0	Amygd Andesite	Brownish grey	M.f.g.	Very weakly porph(fs).	Weakly amygd and fract'd.	Biotite-ser-chl.	Minor pyrite.	Brown biotite alteration common in this section.
1423.0-1504.0	Amygdul Andesite	Grey green	Med grained	Weakly porphyritic.	Weakly amygd and fractured at 50° to core Axis.	Green chlorite. Alt near fractures and minor spotting of chlorite.	Minor pyrite and moly.	1466-1466.5' and 1471-1471.6' white qtz veins with moly. 1486-1487' shear at 60° to core axis.
1504.0-1507.0	Unbedded Tuff	Med-grey med	Fine-med grained	Fragmental	Faintly laminar fractured at 46° to core axis.	Faint chlorite alt.		Tuff has sub angular fragments in a fine matrix with a faint lamination which may be chert.
1507.0-1569.5	Amygdul Andesite	Grey-brown mottled.	Fine-med.		Moderately amygdul and fractured.	Patchy biotite alteration and insipient dalm.	Minor pyrite in amygdules.	1542.6'-1544: Fractures zone at 45° to core axis with white qtz and pyrite.
1569.5-1639.0	Q.F.P.	Grey-green mottled.	Med.	Porphyritic.	Massive fractured with qtz veins.	One altered inclusions of andesite. 1605'-1616' Minor sericite.	Minor pyrite and moly in qtz veins.	Fractures in Q.F.P. 60° to core axis. Fractures in andesite with qtz and moly 40° to core axis.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
1639.0-1730.0	Q.F.P.	Grey green mottled.	Med coarse.	Uneven porphyritic.	Massive fractured.	Altered inclusions of andesite.	Minor scattered pyrite and chalco all through Q.F.P.	1669'-1670': White qtz vein with minor moly 30° to core axis. 1672.6'-1674.6': Andesite dyke at 45° to core axis. Q.F.P. generally shattered.
1730.0-1740.0	Altered andesite.	Med green.	Fine med.	Uneven weakly porphyritic. Odd qtz eye.	Massive fractured.	Chlorite spotting to form insipient (Dalm). Scattered chlorite sericite and carb in fractures.	Minor pyrite.	Alteration may be related to Q.F.P. intrusion.
1740.0-1778.0	Q.F.P.	Grn grey	M.g.	Uneven porph.	Massive mod fract'd.	Chl spot. Local silic sect. Qtz-fs-ca filled frs. Odd 30° qtz stgr.	Minor finely diss py. MoS2-py-minor cp in qtz stgrs.	Q.F.P. generally shattered. 30-45° frs. Local sects of Q.F.P. altered andesite.
1778.0-1818.0	Andesite Dyke	Grn grey.	F.g.		Massive. Mod fract'd.		Minor py.	45° frs. Far ct 45°.
1818.0-1837.0	Q.F.P.	Med grey.	M.g.	Uneven porph.	Massive. Weakly to mod fract'd.	Chl spot.		Q.F.P. appears to be chilled up against the andesite dyke and possibly against the following diorite sect.
1837.0-1843.0	Alt Diorite.	Med grey.	F.g.		Massive. Mod sheared and fract'd.	Strong ca. Qtz-ca filled frs.	Odd speck py.	45° shearing and fracturing.
1843.0-1882.0	Diorite.	Med to dark grey.	M.f.g.		Massive. Weakly fract'd.	Qtz-ca filled frs.	Odd speck py.	Far ct 65°.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
1882.0-1915.0-	Q.F.P.	Med grey.	M.f.g.		Massive. Weakly fract'd.	Chl spot.	Minor finely diss py.	1906'-1915': Strong ca altn. Far ct 50°.
1915.0-2007.0	Massive Andesite	Med to dark grey.	M.f.g.		Massive. Weakly fract'd.	Strongly dioritized. Odd qtz stgr.	Odd patch of py. Py-MoS ₂ in qtz stgrs.	1915'-1919' strong ca altn.
2007.0-2020.0	Amygd Andesite	Grn grey.	F.g.		Weakly amygd and fract'd.	Ser and minor chl.	Odd patch of py.	
END OF HOLE.								

LAKE DFAULT MINES LTD.

Drill Hole Record

Hole No.	N-383	Lat.	19,248.0	Dep.	13,955.0	Elev.	11,099.96	Dip	-90°	Bearing	Depth	1817'		
Working Place	(Ax)	Date Started	Oct 3/66	Date Completed	Nov 20/66	Compass Tests			Acid Test					
		Depth	Dip	M.Brng.	Depth	Read	Corr.	SAMPLED SECTIONS						
								From	To	C.L.	Cu	Zn	Au	Ag
					10'	89 1/2°	89 1/4°							
					500'	89°	88 1/2°							
					1000'	87 1/2°	86 1/2°							
					1500'	88°	87°							
					1817'	88 1/2°	88°							

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
0.0-6.0								Casing.
6.0-67.0	Amygd andesite	Dark grey	F.g.		Weakly to mod amygd. Mod fract'd. blocky.	Odd sauss pod.		35 and 50° joints. Far et 50°
67.0-324.0	Massive andesite	Med grey	M.f.g.		Massive. Weakly fract'd.	Dioritized.		Far et 65° 179-193' Strongly fract'd and blocky. Frs 45 and 80°.
324.0-336.0	Andesite dyke	Dark grey	F.g.	Weakly por ph.	Massive. Mod fract'd.	Ser. Local silic.		Cts 75° Frs 80°
336.0-374.0	Massive andesite	Med grey	M.f.g.		Massive.	Dioritized.		
374.0-435.0	Massive andesite	Dark grey	F.g.		Massive. Weakly fract'd.	Qtz-ca-ser filled frs.	Odd patch py.	65-80° frs.
435.0-506.5	Amygd andesite	Grn grey	M.f.g.		Mod amygd and fract'd.	Chl-albitite filled amygd. Patchy albitite-chl. Local sauss. Odd sect silic.	Odd speck of py-cp.	Frs 70°

Hole No. N-383

Logged by _____

D.M.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
506.5-594.0	Amygd andesite	Dark grey	M.f.g.	Porph (Small white fs phenos).	Weakly amygd and fract'd.	Sauss filled amygds. Patchy sauss. Minor albitite. Odd sect of sauss-epid.		Last 10' of sect mod fract'd. Frs 40-70°
594.0-602.0	Fault zone	Buff grn grey	F.g.		Locally brecciated and sheared.			Shearing 40°
602.0-607.0	Diorite	Grn grey	F.g.		Massive.	Intense ca.		Cts ground and 65°
607.0-610.5	Andesite dyke	Dark grey	F.g.		Massive.			Cts 65°
610.5-677.0	Amygd andesite P.L.	Grn grey	M.f.g.		Mod amygd. Very broadly pillowed.	Sauss filled amygds. Odd patch sauss. Minor chl.		
677.0-683.0	Fault zone	Buff grey	F.g.		Schistose. Mod fract'd.	Strong ca. Ca filled frs.		Schistosity 45°
683.0-795.0	Amygd andesite	Grn grey	M.f.g.	Locally porph.	Mod amygd. Weakly fract'd.	Sauss chl filled amygds. Odd sauss epid pod. Dusty sauss.	Odd spot and stgr of py.	
795.0-840.0	Massive andesite	Grn grey	M.f.g.		Massive. Weakly fract'd.	Patchy sauss. Odd sauss pod. Minor biotite. Weak chl.		795-794' Flow top bx.
840.0-846.5	Sheared andesite	Light to med grey	F.g.		Mod sheared locally brecciated.	Intense ca. 60° qtz-ca stgrs.	Minor py cp.	60° shearing.
846.5-979.0	Amygd andesite P.L.	Dark grey. Locally mottled.	M.f.g.		Weakly amygd. Very broadly pillowed. Weakly fract'd.	Pods of sauss minor epid. Mottled sauss altn. Odd qtz clot.		

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
979.0-1013.0	Amygd andesite	Med grey	M.g.		Weakly amygd and fract'd.	Strongly dioritized. Odd pod of sauss.		Upper ct 60°. Questionable pillows.
1013.0-1021.0	Fault zone	Med grey	F.g.		Massive. Locally schistose.	Intense ca.		Schistosity 40°
1021.0-1092.0	Amygd andesite P.L.	Med grey	M.g.		Weakly amygd and broadly pillowed. Weakly fract'd.	Dioritized. Scattered sauss pods.		10% sauss pods.
1092.0-1200.0	Amygd andesite P.L.	Grey grn	M.f.g.		Mod amygd and pillowed. Weakly fract'd.	Weakly dioritized chl rag and spot. Pod of sauss. Patchy sauss. Chl and sauss filled amygd.	Odd patch and stgr of po-py.	20% sauss pod.
1200.0-1236.0	Amygd andesite	Dark grey	F.g.		Mod amygd. Weakly to mod fract'd.	Sauss-chl filled amygd. Patchy sauss chl.	Odd patch py-po.	
1236.0-1241.0	Fault zone	Light grn grey	F.g.		Locally schistose and brecciated.	Shot through with Qtz ca.	Local diss py.	All amygd andesite. Schistosity 40°.
1241.0-1348.0	Amygd andesite P.L.	Dark grey	F.g.		Mod amygd. Very broadly pillowed. Weakly fract'd.	Sauss chl filled amygd. Mod patchy sauss. Minor chl rag and spot. Odd small sauss pod.	Odd patch po-py.	
1348.0-1365.0	Massive andesite	Med grey	M.g.	Very weakly porph(fs).	Massive.	Dioritized Sauss pods.		10% sauss pods.
1365.0-1554.0	Massive andesite	Dark grey	F.g.		Massive. Weakly fract'd.	Locally dioritized. Odd small sauss-epid pod.		Upper ct 20° 45 frs. 1462-1493' patchy sauss altn.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
1554.0-1561.0	Fault zone.	Grn grey	F.g.		Locally schistose and locally brecciated.	Odd Qtz-ca stgr. Local chl stgrs.		Schistosity 50°
1561.0-1601.0	Amygd andesite P.L.	Mottled grn to dark grey	M.f.g.	Locally weakly porph.	Weakly amygd. Well pillowed.	Strong chl rag and spot. Mod sauss. Local albitite. Minor biotite.	Scattered patches of po. Odd py stgr.	
1601.0-1607.5	Massive andesite tuff	Med to dark grey	F.g.		Massive.	Strong ca.	Diss patch and stgrs of py.	Cts 80° and 40°. Could be a dyke.
1607.5-1633.0	Andesite dyke	Dark grey	F.g.	Odd white fs pheno.	Weakly amygd and fract'd.	Locally dioritized.		Frs 80° and 30°
1633.0-1742.0	Massive andesite	Med grey	F.g.	Odd white fs pheno.	Massive. Weakly fract'd.	Dioritized.		No sharp et with above sect.
1742.0-1749.0	Altered massive andesite	Med grey	F.g.		Massive.	Local strong ca. Numerous 80° Qtz-ca stgrs.	Odd speck of py.	Far ct 65°
1749.0-1817.0	Andesite breccia.	Bluish grey to grn grey	F.g.		Mod brecciated. Locally blocky. Weakly fract'd.	Weak chl. Local ca altn.	Odd patch of py. Minor diss py.	Local flow banding.
					END OF HOLE.			

LAKE DUFALT MINES LTD.

Drill Hole Record

Hole No. N-384	Lat. 20,562.76	Dep. 13,508.87	Elev. 11,210.87	Dip -90°	Bearing	Depth 1770'								
Working Place (Ad)	Date Started Nov 2/66	Compass Tests		SAMPLED SECTIONS										
	Date Completed Dec 2/66	Depth	Dip	M.Brng.	Depth	Read	Corr.	From	To	C.L.	Cu	Zn	Au	Ag
					25'	89 1/2°	89°							
					500'	88 3/4°	88 1/4°							
					1000'	88°	87°							
					1240'	87 1/2°	86 1/2°							
					1500'	88 1/2°	87 1/2°							
					1770'	87 1/2°	86 1/2°							

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Alteration	Sulphides	Remarks
0.0-6.0							Casing.
6.0-139.0	Diorite	Med grey	M.g.	Massive.			15-19' Dark grey f.g. andesite dyke. 122-139' Mod fract'd 45°-80° qtz-ca filled frs.
139.0-145.0	Andesite dyke.	Dark grey	F.g.	Massive. Mod fract'd.			Cts 75°.
145.0-159.0	Diorite	Med grey	M.g.	Massive. Mod fract'd.			
159.0-175.0	Fault zone.	Med grey	M.f.g.	Massive. Strongly fract'd. Locally schistose.			Alt Diorite. Frs 45°-55°
175.0-307.0	Diorite.	Med grey	M.g.	Massive. Weakly fract'd.			Frs 45°-and 80°
307.0-313.0	Andesite Dyke	Dark grey	F.g.	Massive. Mod to strongly fract'd.			Cts 65°.

Hole No. N-384

Logged by D.M.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
313.0-358.0	Diorite	Med grey	M.g.		Massive. Weakly fract'd.			
358.0-368.0	Sheared diorite.	Med grey	M.g.		Massive. Strongly fract'd and sheared.			Shearing 35°-45°
368.0-415.0	Diorite	Med grey	M.f.g.		Massive. Weakly fract'd.			Frs 45°-80°
415.0-423.0	Massive andesite.	Dark grey	F.g.		Massive. Highly fract'd.			Frs 80° and 45°
423.0-450.0	Alt amygd andesite.	Grn grey	M.f.g.		Weakly amygd. Locally brecciated and sheared.	Epid-chl.	Odd speck of cp.	45° shearing.
450.0-491.0	Amygd andesite	Grn grey	F.g.		Mod amygd and fract'd.	Chl-qtz-sauss filled amygds. Local sauss minor chl.	Odd patch of py.	
491.0-626.0	Porph andesite.	Grn grey	F.g.	Porph. Sauss-fs phenos.	Massive. Mod to strongly fract'd. Local shearing.	Qtz-ca-ser filled frs. Local sauss with minor epid.	Odd speck cp.	Frs 45-70° 65° shearing. Odd hematite plated slip.
626.0-640.0	Fault zone.	Grn grey	F.g.		Intensely fractured. Locally schistose.	Ca filled frs.		Thrust fault?
640.0-662.0	Massive andesite.	Grn grey	F.g.		Massive. Very highly fract'd.	Ca-ser filled frs.		
662.0-668.0	Lamp dyke	Grn grey	F.g.		Massive.			Cts 65° and 50°
668.0-830.0	Massive andesite	Dark grey	F.g.		Massive. Strongly fract'd.	Ser-ca filled frs. Ser speck altn.	Odd speck cp.	Frs 60-80°. Odd 40° fr. Fracturing increasing towards end of sect.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
830.0-834.0	Fault zone.	Grn grey	F.g.		Strongly fract'd and locally schistose.	Ser-ca schist. Ser-ca filled frs.		Schistosity 40°.
834.0-869.0	Amygd andesite.	Grn grey	M.f.g.		Mod amygd.	Strong sauss. Sauss-qtz filled amygd.	Diss py.	
869.0-939.0	Massive andesite.	Dark grey	M.f.g.	Weakly porph.	Massive. Weakly fract'd.	Ser speck and weak chl rag.		Frs 40° and 65°.
939.0-1098.0	Massive andesite.	Dark grey	M.f.g.	Porph.	Massive. Weakly fract'd.	Local ser speck. Odd small sauss epid pod. Weakly dioritized.		At 1066' 3" 65° fault At 1073' 3" 50° fault.
1098.0-1162.0	Amygd andesite P.L.	Mottled grn grey	M.f.g.		Mod amygd and pillowed.	Sauss-chl filled amygd. Strong sauss.		
1162.0-1168.0	Fault zone.	Bluish grey	F.g.		Schistose.			Qtz-ca-ser-graphite schist. Schistosity 60°.
1168.0-1352.0	Amygd andesite P.L.	Mottled grn grey	M.g.		Strongly to mod amygd. Weakly to mod pillowed. Weakly fract'd.	Strong sauss. Mod chl. Sauss-chl filled amygd. Odd bleached sect.	Odd speck cp.	1197'-1199' Fault bleached with numerous 65° qtz-ca filled frs. 1205'-1211' Sauss-epid pod. 1250'-1251' Andesite dyke.
1352.0-1379.0	Amygd andesite.	Grn grey	M.f.g.		Mod amygd.	Stgrs of chl chl filled amygd. Mod sauss. Odd patch of albitite blue silic.	Patches and stgrs of po. Minor cp.	1352'-1362' 3% sulphides.
1379.0-1466.0	Amygd andesite P.L.	Dark bluish grey	F.g.		Strongly to mod amygd. Well pillowed.	Sauss filled amygd. Chl patch and stgr. Odd patch sauss. Weakly fract'd.	Odd patch po-py.	1414'-1416' Patches of po with minor cp. 1418'-1422' Intense ca altn. 7" qtz vein in center of sect.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
1466.0-1471.0	Massive and buff bedded silic tuff.	Buff grey	F.g.	Fragmental. Vague light grey frags.	Massive. Bedded in last 1.0'.		Finely diss po. Odd py stgr. Trace of cp.	Cts 30 and 75°. Bedding 55-75°.
1471.0-1500.0	Amygd andesite P.L.	Grn to bluish grey	M.f.g.		Mod amygd. Broadly pillowed.	Chl-sauss po filled amygds. Chl patch and stgr. Speckled sauss. Minor albitite. Odd sauss pod.	Scattered patches and stgrs of po.	
1500.0-1513.0	Amygd andesite	Dark brownish grey	F.g.		Weakly to mod amygd.	Some biotite and ser.		6" of cave and broken up ground at far ct.
1513.0-1559.0	Massive andesite.	Med grey	M.f.g.	Locally porph.	Massive. Odd amygd. Mod to strongly fract'd.	Dioritized. Sauss-ca filled frs.	Odd stgr of po-py.	Fracturing increasing towards end of sect. Frs 60°.
1559.0-1563.0	Fault zone.	Buff grey	F.g.		Massive. Highly fract'd and sheared. Locally schistose.	Shot through with qtz-ca.	Minor po-py. Trace of sph?	45° Fault.
1563.0-1565.0	Massive andesite	Med grey	F.g.		Massive. Very strongly fract'd.	Sauss-ca filled frs.		As 1513'-1559' Frs 45-80°
1565.0-1587.0	Alt and sheared amygd andesite.	Grn grey	F.g.		Weakly amygd. Strongly sheared. Mod fract'd.		Patches and stgrs of po-py.	Upper ct irregular.
1587.0-1605.0	Amygd andesite.	Grn grey	M.f.g.		Weakly to mod amygd. Mod to strongly fract'd.	Sauss filled frs. Some chl alt in last 8.0' of sect.	Patches of py-po.	Frs 65-80°.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
1605.0-1610.5	Andesite Crystal Tuff	Grey	M.g.		Massive.		Finely diss py-po minor cp. Trace of sph.	1609-1610.5: Med to dark grey silic bedded tuff. Odd stgr of py. trace of cp.
1610.5-1640.0	Amygd Andesite	Med grey	M.f.g.	Weakly porph.	Mod amygd and fract'd.	Chl filled amygd. Weakly dioritized.		
1640.0-1653.0	Massive Rhyolite	Blue grey.	F.g. to aph.		Massive. Strongly fract'd.	Ser filled frs.	Diss py-po.	Frs 65°-80°. 1644-1648: med grey porph. Strongly fract'd andesite dyke. Cts 65°. 1649-1653: broken low angle slips.
1653.0-1675.0	Fract'd Amygd Andesite	Grn-gry	M.f.g.		Weakly amygd. Strongly fract'd. Weakly shear'd. Blocky.	Ser filled frs.	Odd patch of po.	40° shearing. Frs 40° and 65°.
1675.0-1723.5	Amygd and Andesite	Grn-gry	M.f.g.		Weakly amygd. Weakly to mod fract'd.	Chl patch and rag.	Numerous patch of po. Odd patch of po-cp-py.	
1723.5-1742.0	Massive Andesite	Med grey		Weakly porph.	Massive. Weakly fract'd.			40° frs.
1742.0-1745.0	Massive Rhyolite	Med gry	Aph		Massive. Mod sheared.		Minor finely diss py-po.	Upper ct 45°. Lower ct ground. 40° shearing. 1' lost core.
1745.0-1749.0	Sheared Massive Tuff	Med gry	F.g.		Massive. Locally schistose. Locally bedded.	Local qtz-ca stgrs.	Diss py-po.	Shearing 40°. bedding 55°. Lower ct 50°.
1749.0-1770.0	Massive Rhyolite	Med gry	F.g.	Weakly porph.	Massive. Weakly fract'd.		Minor finely diss py.	1749-1759: some ca altn and mod fract'd.
					END OF HOLE			

LAKE DFAULT MINES LTD.

Drill Hole Record

Hole No.	N-385	Lat.	21,965.0	Dep.	17,192.0	Elev.	11,057.87	Dip	-90°	Bearing	Depth	2015'		
Working Place	(31)	Date Started	Nov 7/66	Date Completed	Nov 29/66	Compass Tests			Acid Test					
		Depth	Dip	M.Brng.	Depth	Read	Corr.	SAMPLED SECTIONS						
								From	To	C.L.	Cu	Zn	Au	Ag
					20'	89 3/4°	89 1/2°							
					500'	89°	88 1/2°							
					1000'	88 1/2°	87 1/2°							
					1230'	87°	86°							
					1417'	87°	86°							
					1460'	87 3/4°	86°							
					1900'	88 1/2°	87 1/2°							

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Alteration	Sulphides	Remarks
0.0-5.0							Casing.
5.0-11.0	Diorite	Light to med grey	M.g.	Massive.			
11.0-22.0	Andesite dyke	Med grey	F.g.	Massive.			Cts 55°
22.0-77.0	Diorite	Light to med grey	M.f.g.	Massive. Weakly fract'd.			At 35' 4" 80° qtz ca stgr. Far et ground.
77.0-116.0	Massive andesite	Pale grn grey	F.g.	Massive. Weakly fract'd.	Qtz-ca filled frs. Odd sauss pod.	Odd patch of po.	78-81' Light grey f.g. andesite dyke. Cts 60° and irregular. Frs 45-80° Massive flow slightly bleached.
116.0-121.0	Andesite flow breccia	Med grey	F.g.	Strongly brecciated. Odd amygd.	Odd qtz-ca stgr.		Flow top breccia.

Hole No. N-385

Logged by D.M.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
121.0-140.0	Massive andesite	Grn grey	M.f.g.	Weakly porph.	Massive. Odd qtz filled amygd. Weakly fract'd.	Ser and chl speck.		
140.0-153.0	Massive andesite	Grey	F.g.		Massive with sects of andesite flow breccia.		Minor py in brecciated sects.	Brècciated sects made up of epid qtz-ca-bleached andesite. Series of small flow?
153.0-177.0	Massive andesite	Grn grey	M.f.g.	Weakly porph.	Massive.			As sect 121-140
177.0-203.0	Amygd andesite	Grn grey	F.g.		Mod amygd.	Qtz-ca filled amygds. Local sects with strong sauss.		Gradational ct. Weakly amygd towards bottom of sect.
203.0-221.0	Andesite flow breccia		M.f.g.	Heterogeneous.	Very strongly brecciated. Weakly amygd.		Stgrs and patches of po. Minor py.	Bleached andesite frags in a med grey groundmass shot through with qtz-ca.
221.0-241.0	Amygd andesite	Grn grey	F.g.		Strongly amygd. Weakly fract'd.	Qtz-chl filled amygds. Mod ca altn. Odd qtz clot.		Bleached andesite.
241.0-335.0	Amygd andesite	Grn grey	F.g.		Very weakly amygd. Weakly fract'd.	Qtz-chl filled amygds. Chl speck and local ca. Odd qtz-clot.	Odd speck py.	Frs 65° Slightly bleached.
335.0-368.0	Andesite flow breccia	Grn grey	M.f.g.	Locally porph.	Strongly brecciated. Weakly amygd.	Ca-sauss. Minor chl ser. Local silic. Odd qtz-clot.	Local diss py.	
368.0-503.0	Amygd andesite	Grn grey	F.g.	Fragmental porph.	Weakly amygd and fract'd.	Chl speck. Weak sauss. Odd qtz-clot	Odd speck py-po.	Scattered rounded andesitic frags. Local shrinkage frs. Slightly bleached.
503.0-514.0	Andesite bedded tuff	Med to dark grey	F.g.		Bedded.		Odd speck py.	Bedding 65° At 504.5' 3" 60° qtz-ca fault. Cts 60° and ground.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
514.0- 603.0	Andesite P.L.	Grn grey	F.g.		Well pillowed. Weakly fract'd.	Mod to strong ca. Mod sauss. Odd qtz clot.		555-572 Intense ca altn. Frs 45°
603.0- 684.0	Amygd andesite	Grn grey	F.g.		Weakly to mod amygd. Weakly fract'd.	Strong chl speck. Chl qtz filled amygds. Minor sauss.		665-669 F.g. grn grey andesite dyke.
684.0- 687.0	Andesite Dyke	Med grey	F.g.		Massive.			Upper ct 60° chilled.
687.0- 696.0	Fault Zone	Grn grey	F.g.		Schistose.		Minor py-po.	Qtz-ca-ser schist. Schistosity 45-60°
696.0- 704.0	Andesite Massive and Bedded Tuff	Med to dark grey	F.g.		Massive and bedded.			Cts 60° Bedding 60°
704.0- 795.0	Amygd Andesite	Grn grey	F.g.		Weakly amygd.	Ser speck. Qtz filled amygds.		758-795 Strong ca altn.
795.0- 808.0	Diorite Dyke	Grn grey	F.g.		Massive. Mod fract'd.	Ca filled frs.		50-60° frs.
808.0- 876.0	Amygd Andesite	Grn grey	F.g.		Weakly amygd.	Qtz-chl-sauss filled amygd. Weak to mod sauss epid.		Local sects of flow breccia.
876.0- 975.0	Amygd Andesite	Grn grey	F.g.	Uniform.	Weakly amygd.	Ser speck chl qtz filled amygds.		Very uniform texture.
975.0- 981.0	Andesite Flow Breccia	Grn grey	F.g.		Strongly amygd. Locally brecciated.	Some sauss.	Patches and diss po.	
981.0- 1017.0	Amygd Andesite	Med grey	F.g.	Uniform.	Weakly amygd.	Chl speck minor ser. Odd qtz clot.		

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
1017.0- 1336.0	Massive Andesite	Med grey	F.g.	Uniform	Massive	Weak chl speck. Some ser speck.		Upper ct gradational At 1031' 3" 50° qtz-ca fault. At 1058' 3" 45° fault. At 1147' 3" 50° qtz ca stgr. 1268-1278 Numerous 45-80° qtz ca stgrs. 1314-1319 Porph med grey f.g. Andesite dyke cts 35°
1336.0- 1377.0	Amygd Andesite P.L.	Grn grey	F.g.		Mod amygd. Well pillowed.	Local patchy sauss. Odd qtz-clot.	Odd patch of py-po.	Local flow bx. Local 60° shrinkage frs.
1377.0- 1471.0	Amygd andesite	Grn grey	F.g.		Weakly amygd and fract'd.	Qtz-chl filled amygd.	Odd speck of py-cp in amygd.	Local shrinkage frs. Odd low angle slipp
1471.0- 1486.0	Porph Andesite	Med grey	M.g.	Strongly porph.	Massive.			Cts gradational. 1472-1474 Fault zone with strong 40° shearing.
1486.0- 1524.0	Amygd Andesite	Grn grey	F.g.	Porph	Weakly amygd. Qtz phenos.	Chl speck. Qtz-chl filled amygd.	Trace of cp.	
1524.0- 1548.0	Amygd Andesite P.L.	Grn grey	F.g.		Weakly amygd. Well pillowed.	Odd qtz clot and stgr. Ser speck.		Numerous shrinkage frs.
1548.0- 1591.0	Bleached Amygd Andesite P.L.	Pale Grn grey	F.g.		Mod amygd. Well pillowed.	Ser. Qtz-chl filled amygd.	Odd speck of cp.	
1591.0- 1606.0	Andesite Dyke	Med grey	F.g.		Massive.			Cts 50° and irregular. Cts chilled. Bleached andesite.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks	
1606.0-1712.0	Bleached Amygd Andesite P.L.	Light to med grey	F.g.		Weakly amygd. Well pillowed.	Minor chl.		Odd speck of cp.	
1712.0-1719.0	Sheared and Alt Andesite	Dark grey	F.g.		Mod to strong sheared and fract'd.	Strong ca.		Fault zone. Shearing 75° At 1717' 5" qtz-ca graphite shear.	
1719.0-1904.0	Amygd Andesite P.L.	Bleached grn grey	F.g.		Mod amygd. Well pillowed.	Chl spot and patch. Ser speck. Qtz-chl filled amygds.		Odd speck cp.	
1904.0-1920.0	Alt Amygd Andesite	Grn grey	F.g.		Weakly amygd. Mod fract'd locally sheared.	Strong ca. Ca filled frs.		Frs 30° and 65°. Shearing 50°	
1920.0-1930.5	Sheared Tuff	Light to med grey	F.g.		Schistose.		Diss py throughout. Minor cp-sph.	Qtz-ser-ca schist. Schistosity 50°. Locally shot through with qtz-ca. Sample for CZAA 1920-1925 1925-1930.5	
1930.5-1942.0	Massive Rhyolite	Grn grey	F.g. to aph.	Weakly porph.	Massive. Shattered.	Epidote and weak ca.		Minor diss py.	
1942.0-1992.0	Brecciated Rhyolite	Med grey	F.g.	Fragmental	Strongly brecciated.	Strong ca. Minor sauss.		Minor finely diss py.	Angular chl frags in a f.g. med grey groundmass. Local 40-50° banding.
1992.0-2002.0	Massive Rhyolite	Pale grn grey	F.g. to aph.	Weakly porph.	Massive. Weakly fract'd.	Weak epid.			
2002.0-2010.0	Rhyolite Breccia	Med to dark grey	F.g.	Fragmental	Massive.				Chl frags in a f.g. med grey groundmass.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
2010.0-2015.0	Massive Rhyolite	Light to med grey	Aph.	Weakly porph(fs).	Massive. END OF HOLE.	Local weak chl.	Odd speck py.	

LAKE DFAULT MINES LTD.

Drill Hole Record

Hole No. N-386		Lat. 17,900.0	Dep. 20,220.0	Elev. 11,003.59	Dip -90°	Bearing	Depth 2388'					
Working Place	Date Started	SAMPLED SECTIONS										
(F1)	Nov 8/66	Compass Tests		Acid Test		From	To	C.L.	Cu	Zn	Au	Ag
	Dec 7/66	Depth	Dip	M.Brng.	Depth	Read	Corr.					
					25'	89 1/2°	89°					
					500'	88 3/4°	88°					
					985'	88 1/2°	87 1/2°					
					1163'	88°	87°					
					1500'	88 1/2°	87 1/2°					
					2010'	88°	87°					
					2275'	87 1/2°	86 1/2°					
Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks				
0.0-12.0								Casing.				
12.0-42.0	Massive Andesite	Bluish grey	F.g.		Massive. Odd amygd. Weakly fract'd.	Weak ser patch.	Patches and diss py.	2% to 3% Py.				
42.0-57.0	Andesite dyke	Med grey	M.f.g.		Massive.	Dioritized.	Sparse finely diss py.	Cts 40° and not sharp.				
57.0-170.0	Amygd Andesite	Grn grey	M.f.g.		Mod to strongly amygd. Weakly fract'd.	Mod grn chl. Patchy sauss. Sauss chl filled amygds. Odd qtz-clot. Local blue silic. Odd patch of epid.	Odd patch and speck of py-cp.	Frs 50-80° and low angle.				
170.0-228.0	Alt Andesite	Grn grey	F.g.		Massive. Strongly fractured. Highly shattered.	Strong ca. Ca filled frs.	Local diss and odd patch of py.	202-210 Brecciated.				
228.0-311.0	Amygd Andesite	Grn grey	M.f.g.		Weakly to mod amygd. Weakly fract'd.	Sauss-chl filled amygds. Patchy sauss chl rag and speck. Local patches of biotite and local silic.	Diss and stgrs of py. Less than 1% sulphides.	Frs 45° and 80°.				

Hole No. N-386

Logged by D.M.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
311.0- 455.0	Amygd Andesite	Bluish Grn grey	F.g.		Weakly amygd.	Sauss filled amygds. Patchy sauss. Biotite and ser speck. Odd qtz-clot. Odd 45° qtz ca stgr.	Odd patch py-cp. Some cp in qtz stgrs.	392-396 Fault breccia. Mod fract'd shearing 50°.
455.0- 644.0	Amygd Andesite P.L.	Mottled Bluish grn grey	M.f.g.		Weakly to mod amygd. Broadly pillowed. Weakly fract'd.	Patchy sauss and silic. Sauss filled amygds. Minor chl. Local biotite. Odd 45° qtz vein.	Cp-py in qtz- ca veins. Odd patch of py- po-cp.	
644.0- 655.0	Andesite Dyke	Grn grey	M.g.		Massive.	Dioritized.		Cts irregular and 55°.
655.0- 772.0	Amygd Andesite P.L.	Grn grey	M.f.g.		Mod amygd broadly pillowed. Weakly fract'd.	Patchy sauss. Odd sauss pod. Minor chl. Local biotite. Sauss filled amygds. Local small sects of silic. Odd 40° qtz stgr.	Odd patch of py.	728-730 Grn grey andesite dyke cts 35°.
772.0- 783.0	Amygd Andesite	Dark grey	F.g.		Weakly amygd.	Strong ca.	Odd speck cp.	
783.0- 805.0	Alt and sheared amygd andesite	Light grn grey	F.g.		Weakly amygd. Mod sheared.	Local strong ca. Odd 40° qtz stgr.		45° shearing.
805.0- 849.0	Siliceous Flow Breccia	Bluish grey	F.g.	Fragmental	Massive. Very Buff grey weakly amygd. frags in a bluish grey groundmass.	Local ca.	Diss and odd patch of py.	

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
849.0-870.0	Andesite Dyke	Grn grey	F.g.		Massive. Weakly fract'd.			Cts 60°.
870.0-911.0	Amygd Andesite P.L.	Dark grn grey	F.g.		Mod amygd. Broadly pillowed. Weakly fract'd. Blocky.	Patchy sauss. Mino sauss. Sauss filled amygd. Some chl.		Numerous slips. Low angle and 45°.
911.0-980.0	Amygd Andesite	Med grey	F.g.		Weakly amygd. Very blocky. Mod fract'd.	Ca-ser filled frs. Weak sauss-chl.		Numerous low angle and 40° to 60° slips. 948-980 Not blocky.
980.0-1045.0	Andesite Flow Breccia	Med grn grey	F.g.		Locally strongly brecciated. Weakly fract'd.	Mod sauss. Weak chl.		
1045.0-1102.0	Amygd Andesite P.L.	Grn grey	M.f.g.		Weakly amygd and broadly pillowed. Weakly to mod fract'd.	Mod sauss weak chl.		Frs 40-60° Local small sects of flow breccia.
1102.0-1111.0	Silic Andesite	Bluish Grn Grey	F.g.		Massive. Locally brecciated.	Silic and grn chl.	Minor finely diss py.	Becoming more silic and brecciated towards end of sect.
1111.0-1114.5	Andesite Dyke	Grn grey	F.g.		Massive.	Intense ca.		Cts 40°.
1114.5-1118.0	Fault zone	Med grey	F.g.		Strongly brecciated. Highly fract'd.	Ca filled frs.		Dynamic breccia cts 30°.
1118.0-1163.0	Brecciated Rhyolite	Bluish grey	F.g.		Mod brecciated. Weakly fract'd.	Strong ca altn at start and end of sect. Weak sauss and grn chl.	Patches and diss py.	Possibly a brecciated silic andesite.
1163.0-1173.0	Andesite Dyke	Grn grey	F.g.		Massive. Mod fract'd.	Mod ca.		Frs 45-65° Cts ground.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
1173.0-1199.0	Massive Rhyolite	Bluish to dark grey	F.g.		Massive. Locally brecciated.	Local silic. Weak chl.	Minor finely diss py.	
1199.0-1209.0	Massive Andesite	Grn grey	F.g.		Massive. Weakly schistose.	Local strong ca. Odd small qtz-ca stgr.	Minor py in stgrs.	
1209.0-1217.0	Silic Andesite Breccia FAULT ZONE?	Bluish to grn grey.	F.g.		Strongly brecciated.	Strong ca. Scattered qtz-ca stgrs.	Patches and stgrs of po-cp-py.	Sample C.Z.A.A. 1209-1217 Sulphides associated with qtz-ca.
1217.0-1225.5	Fault Zone	Bluish to grn grey.	F.g.		Sheared and brecciated.	Local ca. Shot through with qtz ca.	Stgrs and patches of po-cp-py and sph?	Sample C.Z.A.A. 1217-1225.5' Alt and sheared andesite and diorite.
1225.5-1308.0	Diorite	Med grey	M.g.		Massive. Weakly fract'd.			1225.5-1232 Strong ca altn. 1279-1283 Strong ca altn. At 1301.5' 6" 45° ca stgr.
1308.0-1371.0	Massive Rhyolite	Bluish grey	F.g. to aph.		Massive. Locally brecciated.	Weak sauss and chl.	Odd patch and stgr of py.	1308-1314 Bleached 1353.5-1359' Andesite dyke M.f.g. grn grey. Cts 45-40°.
1371.0-1429.0	Amygd Andesite	Bluish to grn grey.	F.g.		Weakly amygd and fract'd.	Weak sauss. Scattered small sauss pods.	Odd speck cp.	1371-1377' Flow top breccia.
1429.0-1515.5	Amygd Andesite P.L.	Bluish grey	F.g.		Weakly amygd. Broadly pillowed.	Odd 45° qtz vein.	Odd speck cp.	At 1473.5' patch of cp in a sauss epid pod.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
1515.5-1536.0	Andesite Dyke	Med grey	F.g.		Massive. Mod fract'd.	Qtz-ca filled frs.		1522-1523' inclusion of amygd andesite. Frs at 45°-80° At 1530' 7" 45° qtz-ca-epid vein.
1536.0-1616.0	Amygd Andesite	Bluish to grn grey	M.f.g.		Weakly to mod amygd. Weakly fract'd.	Minor patchy sauss-epid. Sauss filled amygd.	Odd speck of cp.	1592'-1595' Fault zone. Shearing at 40°. Frs 45-65°
1616.0-1627.0	Bleached Amygd Andesite	Pale grngrey	F.g.		Weakly amygd. Weak 70° shearing.	Strong ca. Local qtz ca stgrs.	Odd patch of py-cp in qtz.	Weak 65-80° shearing.
1627.0-1679.0	Amygd Andesite	Grn grey	M.f.g.		Weakly to mod pillowed. Weakly fract'd.	Weak patchy sauss. Odd small sauss epid pods. Local biotite. Odd qtz patch and stgr.	Odd patch of po-cp-py.	Frs 45-65° At 1642' 4" 60° minor fault.
1679.0-1686.0	Bedded and Massive Tuff	Brownish to grn grey	F.g.		Massive and bedded.	Biotite altn in the massive sect.	Minor finely diss py.	1679'-1680.5' Bedded silic tuff. Bedding 65° 1680.5'-1686' Massive with the suggestion of an odd frag.
1686.0-1713.0	Amygd Andesite	Brownish grn grey	F.g.		Weakly amygd.	Biotite. Patchy sauss with minor epid and sparse albitite. Odd 45° qtz vein.	Odd speck py. Some cp in qtz-stgrs.	Biotite altn.
1713.0-1759.0	Andesite Dyke	Med grey	F.g.		Massive. Weakly fract'd.	Odd small qtz-ca stgr.	Py-po-cp po in qtz ca stgrs.	F.g. diorite? Could be a massive flow. At 1719' 1.2' 30° qtz-vein with 0.50% MOS2

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
1759.0-1828.0	Amygd Andesite	Med grey to grn grey	F.g.		Weakly amygd. and fract'd 45 frs.	Scattered qtz clots. Local sects silic. Local chl spot and speck. Minor sauss patch. Local minor biotite. 1822-1834 Strong ca altn.	Odd patch and minor diss py. Trace of cp.	1768-1773' chl spot altn. 1773'-1774.3' QFP dyke cts 45° and 40° Andesite silic adjacent to Q.F.P. At 1782' 4" 20° qtz-ca stgr with minor MOS2
1828.0-1854.0	Andesite Flow Breccia	Grn grey	M.f.g.	Porph Qtz-eyes.	Brecciated. Weakly to mod fract'd.	Sauss chl. Some silic. Odd qtz clot.	Odd stgr of py.	1834'-1854 Numerous qtz eyes. Andesite soak up the Q.F.P.
1854.0-1864.0	Alt Massive Andesite	Grn grey	M.f.g.	Porph Qtz eyes. Local fs phenos.	Massive.			Andesite soaked with Q.F.P.
1864.0-1885.0	Q.F.P. Breccia	Pale grn grey	M.f.g.	Fragmental Porph. Qtz-eyes Fs phenos locally vague.	Brecciated. Weakly fract'd.	Local ca altn. Local silic. Odd qtz-clot.	Minor diss py.	Local cream colored rounded frag. Local small irregular andesite dykelets.
1885.0-1922.0	Q.F.P.	Med to dark grey	M.f.g.	Porph. Qtz-eyes. Local vague fs phenos.	Massive. Weakly fract'd.	Mod to strong ca.	Minor diss py. Odd speck cp.	
1922.0-1928.0	Fault zone	Pale grn grey	M.g.		Strongly Brecciated and fractured.	Shot through with qtz ca.	Odd patch of py.	Fault breccia. Cts 15° some gauge.
1928.0-1970.0	Q.F.P.	Med grn grey	M.f.g.	Porph. Qtz-eyes. Vague fs phenos.	Massive. Mod fract'd.	Strong ca.	Minor diss py. Odd patch py.	Frs 45-65° 1928-1939 Local Brecciated. 1956-1970' Local silic.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
1970.0- 2009.0-	Andesite Dyke	Grn grey	F.g.		Massive. Strongly fract'd.	Ser-ca filled frs. Mod ser altn.	Finely diss. Odd patch and stgr of py.	Cts 40 and 45° chilled. Odd hematite plated slips. At 1973' 3" 50° Qtz-ca-py stgr.
2009.0- 2207.5	Q.F.P.	Med to dark grey	M.f.g.	Porph. Qtz eyes. Local uneven fs phenos.	Massive. Mod fract'd. Weak shearing.	Mod chl spot and ca. Ca filled frs.	Odd patch of py.	2032'-2034.5' F.g. grn grey andesite dyke. Shearing 45-65°
2207.5- 2216.0	Andesite Dyke	Grn grey	F.g.		Massive. Weakly fract'd.			Cts 45-80°
2216.0- 2306.0	Q.F.P.	Med bluish grey	F.g.	Porph Qtz eyes and uneven fs phenos.	Massive. Mod fract'd 45° shearing.	Mod chl patch and rag. Weak to mod ca. Ca filled frs.	Minor finely diss py.	45° shearing.
2306.0- 2342.0	Alt Andesite	Grn grey	F.g.		Massive. Odd vague amygd. Mod fract'd.	Intense ca.	Odd speck of cp	Cts gradational and ground. Shearing at 50°. Fault zone.
2342.0- 2344.0	Sheared Andesite	Grn grey	F.g.		Highly sheared.			
2344.0- 2368.0	Q.F.P.	Med grey	F.g.	Porph. Qtz eyes. Local vague fs phenos.	Massive. Very blocky; broken. Mod fract'd. Locally shattered.	Ca filled frs.	Odd speck py.	Low angle to 45° slips. 2365.5-2367.0': sheared and brecciated. Q.F.P. Shearing 5°.
END OF HOLE								

LAKE DFAULT MINES LTD.

Drill Hole Record

Hole No. N-387	Lat. 19,057.74	Dep. 14,030.82	Elev. 11,120.76	Dip -90°	Bearing	Depth 1831'
Working Place (Aa)	Date Started Nov 22/66	Compass Tests		Acid Test		
	Date Completed Dec 17/66	Depth	Dip	M.Brng.	Depth	Read
					19'	90°
					500'	89°
					1000'	88 3/4°
					1500'	89°
					1823'	88 1/2°
						87 1/2°

SAMPLED SECTIONS						
From	To	C.L.	Cu	Zn	Au	Ag

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
0.0-2.0								Casing.
2.0-128.0	Amygd Andesite	Dark grey	F.g.	Locally weakly porph.	Mod amygd. Mod blocky. Rust plated joints. Weakly fract'd.	Odd sauss epid pod.		82-83' Cave and water course. 115-128' Amygd andesite P.L.
128.0-196.0	Massive Andesite	Dark grey	F.g.		Massive.	Ca-ser filled frs. Weakly dioritized.		Frs 40-65°
196.0-426.0	Dioritized Andesite	Med to dark grey	M.f.g.		Massive. weakly fract'd.	Strongly dioritized chl speck altn. Ca-ser filled frs.		267-268' Fault zone. 65° qtz-ca stgrs. Local 35-45° joints. Frs 35-45°.
426.0-453.0	Dioritized Andesite	Med to dark grey	M.f.g.		Massive. Mod to strongly fract'd.	Dioritized. Ca filled frs.		Local hematite plated slips.
453.0-457.0	Fract'd and sheared andesite	Grn grey	F.g.		Massive. Highly fract'd. Mod sheared.	Strong ca. Ca filled frs.		Shearing 40°. Fault zone.

Hole No. N-387

Logged by
D.M.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
457.0-484.0	Massive Andesite	Med to dark grey	F.g.		Massive. Highly fract'd.	Ca filled frs. Mod ca.		Frs 40-80°. At 479' 4" 20° Qtz-ca stgr.
484.0-487.0	Fract'd and sheared Andesite	Grn grey	F.g.		Massive. Highly fract'd. Mod sheared.	Strong ca. Ca filled frs.		40-45° shearing.
487.0-564.0	Amygd Andesite	Dark grey	F.g.		Weakly amygd. Mod fract'd.	Ca filled frs.	Odd patch of py.	Frs 40 and 80° 45° joints.
564.0-620.0	Amygd Andesite P.L.	Dark grey	F.g.	Weakly porph(fs)	Weakly amygd and broadly pillowed. Mod fract'd.	Ca-ser filled frs. Weak ser speck minor chl. Odd small sauss epid pod.		Local small sects of flow top.
620.0-626.5	Andesite Dyke	Grn grey	M.g.		Massive. Mod fract'd.	Intense ca.		Frs 45°.
626.5-633.0	Fault zone	Grn grey	F.g.		Massive. Highly fractured locally schistose and locally brecciated.	Strong ca.		West Valley thrust 45° shearing. Qtz-ca-ser schist. Qtz-ca bx.
633.0-647.0	Andesite Dyke	Grn Grey	M.g.		Massive. Mod fract'd.			As 620-626.5' Far et 50°. Strong ca altn in upper 4'.
647.0-718.0	Amygd Andesite P.L.	Dark grey	M.f.g.	Porph(fs)	Weakly amygd. Well pillowed. Weakly fract'd.	Odd small pod of sauss epid.		
718.0-729.0	Amygd Andesite Flow Breccia	Dark grey	M.f.g.		Mod amygd. Mod brecciated.	Odd pod of sauss-epid-qtz. Chl and frags in breccia.		Flow top breccia.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
729.0-762.0	Amygd Andesite	Med to dark grey	M.f.g.	Weakly porph(fs).	Weakly to mod amygd and fract'd.	Qtz filled amygd. Minor dusty sauss.		Far 45-80°
762.0-779.0	Amygd Andesite Flow Breccia	Dark grey	M.f.g.		Strongly brecciated. Weakly amygd. Mod fract'd.	Chl patch and rag. Odd qtz-sauss-epid pod.		
779.0-794.0	Amygd Andesite	Grn grey	F.g.		Weakly to mod amygd and fract'd.	Chl filled frs.		45° frs.
794.0-824.0	Massive Andesite	Med grey	F.g.		Massive. Mod fract'd.	Dioritized.		Frs 45-80°.
824.0-979.0	Amygd Andesite P.L.	Dark grn grey	M.f.g.		Weakly amygd. Very broadly pillowed.	Odd sauss epid pod. Local speckled sauss. Local patches and rags of chl. Sauss chl filled amygds.		Amygds up to 1/2" in diameter.
979.0-1099.0	Amygd Andesite P.L.	Med grey	M.g.		Weakly amygd broadly pillowed. Weakly fract'd.	Dioritized. Numerous sauss-epid pods. Local rags and patches chl.		Sauss-epid pods up to 3' long.
1099.0-1202.0	Amygd Andesite P.L.	Mottled grn grey	M.f.g.	Heterogeneous texture.	Weakly amygd broadly pill. Weakly fract'd.	Patchy sauss. Pods of sauss chl rags and patches. Local patchy albitite. Sauss-chl filled amygds. Locally weakly dioritized.		1190.5'-1191' 50° 1192'-1192.5' faults. Qtz-ca-ser schist.
1202.0-1263.0	Amygd Andesite P.L.	Dark grey	M.f.g.		Mod amygd. Well pillowed.	Chl and sauss filled amygds. Minor sauss and chl.	Po-py in pillow bdrs. Odd patch of py-po.	Frs 30-45° Far ct 70°

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
1263.0-1312.0	Amygd Andesite	Med to grn grey	M.f.g.	Weakly porph (fs).	Weakly to mod amygd. Weakly fract'd.	Dioritized. Dusty-sauss. Odd sauss-epid pod.		
1312.0-1446.0	Amygd Andesite P.L.	Dark grey	M.f.g.	Weakly porph.	Mod amygd. Well pillowed. Mod fract'd.	Odd pod of sauss. Sauss filled amygds. Local patchy sauss-epid. Local chl. Ca-ser filled frs.	Odd patch of po-py. Trace of cp.	45 and 65° frs. Pods of sauss up to 2.0' in length.
1446.0-1490.0	Amygd Andesite	Dark grey	F.g.	Very weakly porph.	Weakly amygd and fract'd.	Weak ser speck. Minor chl. Local weak biotite.	Odd patch of py.	Frs 45°. Cts 80° and gradational.
1490.0-1552.0	Massive Andesite	Med to dark grey	F.g.	Locally weakly porph.	Massive. Weakly to mod fract'd.	Dioritized. Ser filled frs. Local dusty ser.		Frs 65-80° and 30°. At 1541' 2" 50° fault. At 1598' 3" 50° qtz-ca fault.
1552.0-1566.0	Amygd Andesite	Dark grey	F.g.	Weakly porph.	Weakly amygd.	weak sauss.	Odd speck of py.	
1566.0-1764.0	Massive Andesite	Med to dark grey.	M.f.g.	Weakly porph.	Massive. Weakly fract'd.	Dioritized. Minor sauss chl.		1705'-1706.5' Grano-diorite dyke cts 65°.
1764.0-1766.5	Bedded Tuff	Bluish grey	F.g.		Bedded locally massive.	Odd ca stgr.	Py throughout. Local sph-cp.	Bedding 45-50°. Sample C.Z.A.A. 1764'-1766.5'
1766.5-1784.0	Rhyolite Breccia	Med to buff grey	F.g.		Strongly brecciated.	Patchy sauss minor ca.	Odd patch of py.	
1784.0-1831.0	Massive Rhyolite	Med grey	F.g.		Massive	Chl rag and spot. Light grey silic.	Odd speck py.	Locally breccia and locally flow banded.
					END OF HOLE			

LAKE DUFALT MINES LTD.

Drill Hole Record

Hole No. N-388 Lat. 21,290.0		Dep. 17,340.0		Elev. 11,201.94		Dip -90°		Bearing		Depth 2037.0'																																																			
Working Place (Eg)	Date Started	Compass Tests			Acid Test			SAMPLED SECTIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>From</th> <th>To</th> <th>C.L.</th> <th>Cu</th> <th>Zn</th> <th>Au</th> <th>Ag</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>					From	To	C.L.	Cu	Zn	Au	Ag																																										
	From	To	C.L.	Cu	Zn	Au	Ag																																																						
	Date Completed	Depth	Dip	M.Brng.	Depth	Read	Corr.																																																						
	Dec 3/66				25'	90°	90°																																																						
	Jan 20/67				500'	89°	88 1/2°																																																						
					1000'	89 1/4°	88 3/4°																																																						
					1500'	89 1/4°	89°																																																						
					2000'	89 1/4°	89°																																																						

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
0.0-5.0								Casing.
5.0-72.0	Amygd Andesite P.L.	Pale grn-grey	F.g.		Weakly to mod amygd. Well pillowed.	Chl filled amygd	Odd po filled amygd.	
72.0-87.0	Brecciated Amygd Andesite P.L.	Pale grn-grey	F.g.		Locally strongly brecciated. Well pillowed and weakly amygd.	Qtz-chl filled amygd.		
87.0-157.0	Amygd Andesite P.L.	Pale grn-grey	F.g.		Weakly amygd and broadly pillowed. Local small sect of flow breccia.	Odd qtz clot. Qtz--sauss filled amygd. Weak to mod sauss. Local minor chl speck altn.	Odd speck of cp in amygd.	Shrinkage frs.
157.0-217.0	Amygd Andesite	Grn-grey to dark grey	F.g.		Strongly amygd.	Qtz-chl filled amygd.	Minor po in amygd.	157-158.6': flow top breccia shot through with qtz-ca-po-cp.
217.0-308.5	Amygd Andesite	Med grey	F.g.		Weakly amygd.	Odd qtz clot.	Cp-po in qtz clots.	259': one pillow bder noted. Odd low angle and 80° qtz-ca filled fr.

Hole No. N-388

Logged by D.M.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
308.5-312.5	Acid Tuff	Med grey	F.g.		Bedded and massive.			65° bedding. Cts 65°.
312.5-341.0	Amygd Andesite	Grn-grey	F.g.		Weakly to mod amygd.	Qtz-chl filled amygds. Ser speck.		312.5-316.5': brecciated. Flow top breccia.
341.0-343.0	Andesite Dyke	Dark grey	F.g.		Massive.		Diss py-po throughout.	Cts 45° and very irregular.
343.0-481.5	Q.F.P.	Med to bluish grey	M.g.	Strongly porph. Uneven fs phenos and qtz eyes.	Massive. Odd questionable amygd.			Odd questionable amygd. 406-408': brecciated looks like a flow breccia. 457-460': andesite dyke. Cts 40° and irregular. Far ct irregular.
481.5-484.0	Andesite Breccia	Med grey	M.f.g.		Strongly brecciated.		Odd patch of po. Minor cp.	Fragments. Q.F.P. caught up in A.A.P.L. of the following sect.
484.0-607.5	Amygd Andesite P.L.	Med to grn-grey	M.f.g.	Weakly porph locally	Weakly to mod amygd. Well pillowed.	Weak to mod chl speck. Odd sauss pod.	Odd speck and patch of cp.	
607.5-611.5	Bedded & Massive Andesite Tuff	Med grey	F.g.		Massive. Local 65° bedding.			Cts 80° and 65°.
611.5-637.0	Amygd Andesite	Med to grn-grey	M.f.g.		Mod amygd.	Chl speck.	Minor diss py.	
637.0-643.0	Fault Zone	Med to grn-grey	F.g.		Schistose.		Minor diss. Odd stgr of py. Trace of cp.	Qtz-ca-ser schist. Schistosity 50°. 1.0' lost core.
643.0-649.0	Amygd Andesite	Med to grn-grey	F.g.	Weakly porph.	Weakly amygd and fract'd.	Dusty ser; minor chl.		45° frs.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
649.0-651.0	Bedded Tuff	Grn-grey	F.g.		Bedded.			Odd band of po. Andesite ash. 45°-55° bedding.
651.0-661.0	Amygd Andesite Flow Breccia	Grn-grey	M.f.g.		Strongly amygd and brecciated.	Chl filled amygds. Mod sauss altn.		Patches of po.
661.0-711.0	Amygd Andesite	Grn-grey	F.g.		Weakly amygd and fract'd.	Weak sauss, mod chl speck.		
711.0-833.0	Amygd Andesite P.L.	Grn-grey	M.f.g.		Weakly to mod amygd. Broadly pillowed.	Mod sauss and chl speck and spot. Odd small silic sect. Odd small qtz stgr. Chl and qtz filled amygds.	Minor po. Py-cp in qtz stgrs.	711-712.5': strongly brecciated. Shrinkage frs. Wide pillow bdrs. Scattered 1/4 to 1/2" rounded to ovoid. Qtz filled amygds. 810-817': strongly flow brecciated andesite.
833.0-905.0	Amygd Andesite	Med to dark grey	F.g.		Weakly amygd.	Weakly dioritized. Ser speck. Py-po-qtz filled amygds. Weak chl speck altn.	Py-po in amygds. Minor diss py.	
905.0-922.5	Amygd Andesite	Med grey	F.g.		Weakly to mod amygd.	Ser speck. Minor chl speck.	Scattered patches of po.	905-905.3': light grey mineralized chert band. Po with minor cp.
922.5-941.5	Massive Andesite	Med grey	F.g.		Massive. Weakly fract'd and mod sheared.	Mod ca. Qtz-ca filled frs.	Minor py-po.	45° shearing.
941.5-975.5	Massive Andesite	Med grey	F.g.		Massive. Weakly fract'd.		Scattered patches of po.	Odd amygd in last 2' of sect.
975.5-976.4	Bedded Tuff	Light to med grey	F.g. to aph.		Bedded.		8% po. Minor cp.	Bedded cherty mineralized tuff. 50° bedding. Cts 35° and 50°.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
976.4-1033.0	Amygd Andesite	Med grey	F.g.		Weakly amygd.	Minor chl speck,		Odd speck po.
1033.0-1101.0	Massive Andesite	Med grey	F.g.		Massive. Weakly fract'd.	Weak sauss. Slightly dioritized.		Fracturing increasing towards bottom of section.
1101.0-1112.0	Fract'd Andesite	Med to grn-grey	F.g.		Massive. Mod fract'd and sheared.	Ca filled frs.		45° shearing. Blocky ground.
1112.0-1114.0	Fault Zone	Med to dark grey	F.g.		Schistose.		Minor py.	Mid Norbec Thrust. Qtz-ca-ser schist. Schistosity 45°.
1114.0-1223.0	Massive Andesite	Med to grn-grey	F.g.		Massive.	Weakly dioritized. Minor chl speck.		
1223.0-1233.0	Fract'd Andesite Dyke	Med to grn-grey	F.g.	Weakly porph.	Massive. Mod to strongly fract'd.	Qtz-ca filled frs.		1226.5-1228.0': fault zone. 50°
1233.0-1266.0	Massive Andesite	Med to grn-grey	F.g.		Massive.	Weakly dioritized. Mod chl speck.		
1266.0-1291.0	Amygd Andesite P.L.	Grn-grey	F.g.		Weakly amygd. Well pillowed.	Chl filled amygds.		Local shrinkage frs.
1291.0-1302.0	Amygd Flow Breccia Andesite	Grn-grey	F.g.		Locally strongly brecciated.	Qtz-chl filled amygds. Locally shot through with qtz.		
1302.0-1397.0	Amygd Andesite P.L.	Grn-grey	F.g.		Mod amygd. Well pillowed.	Qtz-chl-epid filled amygds.	Minor cp-py in amygds.	Well pillowed. Shrinkage frs.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
1397.0-1500.0	Amygd Andesite	Grn-grey	F.g.		Weakly amygd.	Weak ser speck and chl spot and speck. Weak sauss.	Odd patch po. Trace of cp.	
1500.0-1674.0	Amygd Andesite P.L.	Med grey to grn-grey	F.g.		Weakly amygd and well pillowed.	Ser speck. Weak chl speck. Odd patch of chl. Mod sauss.	Minor po-py. Trace cp.	Bleached.
1674.0-1914.5	Massive Andesite	Med grey to grn grey	M.f.g.		Massive.	Chl speck and weak sauss.	Scattered py-po.	1730-1733': strongly fractured. Qtz-ca filled frs. Frs 55°. Very uniform andesite. 1909-1914.5': strong ca altn. 65° and 30°. Ca filled frs.
1914.5-1928.5	Sheared Massive Tuff	Grn to buff grey	F.g.		Massive. Locally schistose.	Strong ca. Ca filled 60 frs.	Minor py-po.	60° shearing. Cts irregular and 60°. 1927.5-1928.5': stgrs of py with trace of cp.
1928.5-1973.0	Rhyolite Breccia	Bluish grey	F.g.	Rounded & angular silic and chl frags.	Strongly brecciated.	Patchy sauss.	Odd patch of po-py.	Mineralisation restricted to upper 5.0' of sect.
1973.0-2037.0	Rhyolite Breccia	Bluish grey	F.g.	Odd cherty and chl frag. Heterogeneous texture.		Patchy sauss. Minor epid. Minor chl rag. Local blue silic.		Heterogeneous texture due to altn. Locally flow banded 40°-55°.
					END OF HOLE			

LAKE DFAULT MINES LTD.

Drill Hole Record

Hole No.	Lat.	Dep.	Elev.	Dip	Bearing	Depth	SAMPLED SECTIONS						
N-389	20,184.0	13,630.0	11,167.57	-90°		1,775.0'	From	To	C.L.	Cu	Zn	Au	Ag
Working Place	Date Started	Compass Tests		Acid Test									
	Dec 5/66	Depth	Dip	M.Brng.	Depth	Read	Corr.						
	Jan 27/67	1000'	87 1/2°	86 1/2°	35'	88°	87°						
		1120'	88 3/4°	88°	145'	88 3/4°	88°						
		1500'	89°	88 1/2°	500'	88 1/2°	87 1/2°						
					895'	87 1/2°	86 1/2°						
					990'	87°	86°						

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
0.0-36.0								Casing.
36.0-86.0	Diorite	Med grey	M.g.		Massive. Mod fract'd.	Qtz-ca-ser filled frs.		Frs 40° and 80°.
86.0-98.0	Sheared & Fract'd Diorite	Grn-grey	M.g.		Sheared and highly fract'd.	Qtz-ca filled frs.		D.H.B. Thrust. Shearing 35°.
98.0-193.0	Diorite	Med to dark grey	M.g.		Massive. Mod to strongly fract'd.	Ser-ca filled frs.		Frs 35°-80°. Far ct 35° chilled over 3.0'.
193.0-349.0	Diorite	Med to dark grey	M.g.		Massive. Mod fract'd.	Ser-ca filled frs. Mod chl speck. Weak epid.		Could be a strongly dioritized andesite. 193.5': 0.5'; 40° fault. Frs 45-80°. 255-256': qtz-ca bx fault. Cts 50°.
349.0-354.0	Andesite Dyke	Dark grey	F.g.		Massive. Highly fract'd.			Frs 65°.

Hole No. N-389

Logged by D.M.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
354.0-500.0	Diorite	Med grey	M.g.		Massive. Mod fract'd.	Chl spot and ser speck. Ca filled frs.		Frs 45° and 80°. 389': 3"-45° qtz-ca bx. 398-399': qtz-ca-epid bx. 45°-60° fault zone. 399-453': weakly fract'd.
500.0-570.0	Massive Andesite	Med to dark grey	F.g.	Very weakly porph locally.	Massive. Weakly fract'd.	Ca-ser filled frs.		547-554': strongly fract'd. Frs 45°-60°.
570.0-576.5	Fault Zone	Grn-grey	F.g.		Strongly brecciated. Local shearing.	Scattered 40° ca stgrs.	Odd speck of cp.	Qtz-ca-ser bx. Shearing at 30°.
576.5-636.0	Porph Andesite	Med grey	F.g.	Porph (fs)	Massive.	Local sects of dusty sauss.		592-597': strongly fract'd. Frs 40-80°. 592': 3"-40° fault.
636.0-654.5	Amygd Andesite	Dark grey	F.g.		Mod amygd.	Sauss filled amygds.		Cts 45° and 80°.
654.5-663.0	Andesite Dyke	Grn-grey	M.f.g.		Massive. Mod fract'd.			Frs 45°. Cts 80° chilled.
663.0-670.0	Amygd Andesite	Grn-grey	M.f.g.		Weakly amygd and fract'd.	Odd patch of sauss.		665-665.5': lamprophyre dyke.
670.0-675.0	Lamprophyre Dyke	Grn-grey	F.g.		Massive.	Weak ca.		Cts 50°.
675.0-739.0	Amygd Andesite	Grn-grey	F.g.		Weakly amygd. Mod to strongly fract'd.	Ca-ser filled frs. Scattered sauss-epid pods.		Frs 45°-80°. 711-712.5': strongly sheared. 40° shearing. D.H.B.
739.0-893.0	Massive Andesite	Med to dark grey	F.g.	Weakly porph.	Massive. Weakly fract'd.	Odd sauss-epid pod. Dusty sauss. Weakly dioritized.		

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
893.0-926.0	Amygd Andesite	Med to dark grey	M.f.g.		Weakly amygd. Weakly fract'd.	Local speckled sauss. Local biotite.		Local small sections of flow breccia.
926.0-932.0	Andesite Dyke	Med grey	M.g.	Weakly porph.	Massive.			Cts 45° and 50°.
932.0-970.0	Amygd Andesite P.L.	Grn-grey	M.f.g.		Weakly amygd and broadly pillowed.	Patchy sauss. Local minor biotite.	Odd patch of po-py.	
970.0-1062.0	Massive Andesite	Grn-grey	M.f.g.	Locally weakly porph.	Massive. Weakly fract'd.	Sauss speck altn. Odd patch sauss. Ca-ser filled frs.		
1062.0-1065.0	Fault Zone	Grn-grey	F.g.		Schistose.			Qtz-ca-ser schist. Schistosity 50°-70°.
1065.0-1158.0	Massive Andesite	Grn-grey	M.f.g.	Weakly porph. Odd fs phenos.	Massive. Weakly fract'd.	Odd patch sauss. Odd qtz clot.		Odd low angle slip.
1158.0-1222.0	Amygd Andesite P.L.	Grn-grey	M.f.g.		Weakly amygd. Well pillowed.	Strong patchy sauss. Sauss speck and minor chl.	Minor py-po.	Weak 50°-65° shearing.
1222.0-1223.0	Sheared Andesite Dyke	Grn-grey	M.f.g.		Strong shearing.	Strong ca.		Qtz irregular and ground. 65° shearing.
1223.0-1243.0	Sheared & Fract'd Massive Andesite	Grn-grey	F.g.		Massive. Mod sheared. Highly fract'd.	Ca filled frs.		50° shearing. 1238'+1240': strong shearing.
1243.0-1263.0	Amygd Andesite P.L.	Grn-grey	M.f.g.		Weakly amygd. Well pillowed. Weakly fract'd.	Strong sauss-epid. Trace of hematite. Mod chl rag. Weakly dioritized locally.	Minor py.	Odd low angle to 40° slips.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
1263.0-1272.0	Massive Andesite	Med to dark grey	F.g.		Massive. Mod fract'd. Slightly sheared.	Mod ca. Ca filled frs.		Shearing at 55°.
1272.0-1279.0	Andesite Flow Breccia.	Dark grey	F.g.		Weakly brecciated and fract'd.			
1279.0-1332.0	Amygd Andesite P.L.	Pale grn-grey	M.f.g.		Weakly amygd. Very broadly pillowed. Weakly fract'd.	Very strong epid-sauss. Minor chl.	Minor po.	Local small sections of flow breccia. 1293-1295': numerous 45° qtz-ca filled frs. 1327-1328': 45° fault. Qtz-ca.
1332.0-1407.0	Amygd Andesite P.L.	Dark grn-grey	M.f.g.		Weakly amygd. Well pillowed. Weakly to mod fract'd.	Odd patch of sauss. Minor chl rag. Fs filled sperules.		65° frs. Sperulitic.
1407.0-1428.0	Andesite Byke	Grn-grey	F.g.	Locally weakly porph.	Massive. Weakly fract'd.			Frs 80° and minor 30° frs. Cts 55°.
1428.0-1681.0	Amygd Andesite P.L.	Dark grey to grn-grey	M.f.g.		Weakly to mod amygd and pillow-ed. Very weakly fract'd.	Sections of sauss with minor epid. Chl spot and rag altn throughout. Minor patchy sauss. Chl filled amygd.	Odd patch of py-po.	7% sauss-epid pods in upper 100' of section. Remainder of section, odd sauss-epid pod. 1617-1631': mod to strong 65°-80° fracturing. Ca-ser filled frs. 1652': 50°-3" ca fault.
1681.0-1683.0	Bedded Tuff	Med grey	Very f.g. to aph.		Bedded.		Minor po.	75° bedding. Cts 75° and 80°.
1683.0-1687.0	Crystal Tuff	Med grey	M.g.	Fs crystals and frags.	Massive.		Odd speck of py.	Cts 80°.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
1687.0-1689.0	Bedded Tuff	Med to buff grey	F.g.		Well bedded.		Banded po-py. Minor cp and trace of sph.	Bedding 80°. Sample: 1687-1689'
1689.0-1723.0	Andesite Dyke	Dark grey	F.g.	Locally weakly porph.	Massive.	Minor dusty ser.		Upper 5.0' of section amygd. Cts 80°.
1723.0-1734.0	Rhyolite Breccia	Bluish grey	F.g.	Odd frag. Locally pseudo-porph.	Weakly brecciated. Weakly fract'd.	Silic frags and patches.	Odd speck py.	
1734.0-1775.0	Massive Rhyolite	Bluish grey	F.g.	Locally pseudo-porph.	Massive. Weakly fract'd.	Odd patch sauss. Minor chl.	Odd speck py.	
END OF HOLE								

LAKE DFAULT MINES LTD.

Drill Hole Record

Hole No.	N-391	Lat.	18,800	Dep.	14,130	Elev.	11,058.53	Dip	-90°	Bearing	Depth	2007				
Working Place	(AY)	Date Started	Jan 3/67	Compass Tests		Acid Test		SAMPLED SECTIONS								
		Date Completed	JAN 27/67	Depth	Dip	M.Brng.	Depth	Read	Corr.	From	To	C.L.	Cu	Zn	Au	Ag
							31'	90°	90°							
							500'	89 1/2°	89°							
							1000'	87°	85 3/4°							
							1195'	87 1/2°	86 1/2°							
							1500'	87°	86°							
							2000'	87 1/2°	86 1/2°							

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Alteration	Sulphides	Remarks
0.0-12.0							Casing.
12.0-77.0	Amygd Andesite	Dark Grey	M.f.g.	Porph.	Strongly amygd. Mod fract'd.	Odd sauss epid pod.	
77.0-166.0	Amygd Andesite	Dark Grey	F.g.	Very weakly porph.	Weakly amygd. Weakly to mod fract'd.	Local biotite ca-ser filled frs.	Frs 40° and 60°
166.0-176.0	Fault zone.	Light Grn grey	F.g.		Massive. Highly fractured. Locally schistose.	Intense ca.	Fractured and sheared massive andesite. Shearing 45° D.H.B.-Thrust.
176.0-291.0	Massive Andesite	Grn grey	M.f.g.	Locally very weakly porph.	Massive. Highly to mod fract'd.	Ca-ser filled frs. Odd speck py-cp.	Odd weakly scattered amygd. Frs 45° and 65° 197-197.5 45° qtz-ca fault. Fracturing decreasing towards end of sect.
291.0-487.0	Massive Andesite.	Med to dark grey.	M.g.		Massive. Weakly to mod fract'd.	Dioritized. Qtz-ca-ser filled frs. Weak sauss. Odd low angle hematite plated slip.	Frs 65-80° and 40° At 356' and 389' 1" stgrs of grano-diorite. At 455' 3" 65° qtz-ca fault.

Hole No. N-391

Logged by D.M.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
487.0-496.0	Fault Zone.	Light Grn Grey	F.g.		Schistose.			Shearing at 45° (West Valley Thrust)
496.0-512.0	Altered Massive Andesite	Grn Grey	M.f.g.		Massive. Weakly sheared and fract'd.	Mod ca.		Shearing 35-45°.
512.0-520.0	Fault Zone.	Pale Grn Grey	M.g.		Strongly brecciated.			Fault breccia.
520.0-541.0	Massive Andesite	Grn Grey	M.g.		Massive. Mod fract'd.	Mod ca. Ca-fs filled frs.		Frs low angle and 45°.
541.0-545.0	Fault Zone	Light Grn Grey	M.f.g.		Brecciated.			Fault breccia. Low angle fault. Fs-ca-qtz breccia.
545.0-614.0	Altered Sheared and fract'd andesite.	Grn Grey	M.f.g.		Massive. Mod to highly fract'd and sheared.	Strong ca.		Shearing low angle and 45°.
614.0-626.0	Fault Zone	Grn Grey	M.f.g.		Brecciated and schistose.			Low angle shearing.
626.0-670.0	Altered Massive Andesite	Grn Grey	M.f.g.		Massive. Mod fract'd and sheared.	Strong ca. Ca filled frs.		Frs 45-80° and 30°. Local 45° shearing.
670.0-695.0	Massive Andesite	Dark Grey	M.f.g.	Weakly porph.	Massive. Weak to mod fract'd.	Ca-ser filled frs. Minor sauss.		Frs 40° and 80°.
695.0-741.0	Altered Massive Fract'd Andesite	Med to grn grey	F.g.		Massive. Strongly fractured. Local shearing.	Strong ca.		Frs 40 and 80°. Local 40° shearing.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
741.0-815.0	Fault Zone	Med to grn grey.	F.g.		Schistose and brecciated.		Odd patch of py.	35 to 40° shearing. Ca-ser schist.
815.0-883.0	Massive Andesite	Dark grey.	F.g.	Locally weakly porph.	Massive. Strongly to mod fract'd.	Ca-ser filled frs. Ser speck altn.		815-830 highly fract'd. Frs 40-45° 815-820 strong ca altn.
883.0-918.0	Amygd Andesite.	Dark grey	F.g.	Weakly porph.	Weakly to mod amygd. Weakly fract'd.	Chl filled amygds. Minor patchy sauss.		Frs 45-65°.
918.0-1009.0	Andesite P.L.	Grn Grey	M.f.g.	Weakly porph (fs)	Broadly pillowed.	Dioritized. Mod chl rag. Patches of sauss.	Minor py-po.	Sect of sauss altn up to 2'.
1009.0-1040.0	Amygd Andesite P.L.	Grn Grey	M.f.g.	Weakly porph.	Weakly amygd. Well pillowed. Weakly fract'd.	Strong chl rag and sauss altn. Trace of biotite.		Frs 65°.
1040.0-1042.5	Altered and Sheared Andesite P.L.	Dark grey	F.g.		Highly sheared.	Strong ca.		Low angle shearing. (Upper edge (New Lorie Fault Zone))
1042.5-1053.0	Amygd Andesite P.L.	Grn Grey	M.f.g.		Weakly amygd and pillowed.	Strong sauss weak chl.		
1053.0-1064.0	Massive Andesite	Med to dark grey.	M.g.		Massive.	Dioritized. Mod chl spot and rag.		
1064.0-1085.0	Andesite Flow Breccia	Grn Grey	M.f.g.		Weakly Brecciated. Weakly amygd.	Sauss patch of pod. Local chl and local weak biotite.		

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
1085.0-1128.0	Bleached Amygd Andesite P.L.	Pale grn-grey	M.f.g.		Weakly amygd and broadly pillowed. Weakly fract'd.	Strong sauss. Local biotite. Local chl.		Bleached. Odd small 45° fault. Frs 40° and 80°.
1128.0-1130.0	Fault Zone	Pale grn-grey	F.g.		Sheared.	Strong ca.		Shearing at 65°.
1130.0-1217.0	Amygd Andesite P.L.	Dark grey	M.f.g.		Weakly amygd. Very broadly pillowed. Weakly fract'd.	Odd patch and pod sauss and minor chl spot and rag. Sauss filled amygds.	Odd patch py.	1212-1217': strong ca altn. Frs 35-45°. Minor 65-80° frs.
1217.0-1260.0	Fault Fault Zone	Buff grey	F.g.		Highly sheared. Locally schistose. Locally brecciated.	Strong ca-ser.	Odd speck of py.	Shearing 20-40° to core axis. Schist and fault breccia.
1260.0-1330.0	Alt Qtz Diorite	Med grey	M.f.g.		Massive.	Mod ser; weak ca.		Far ct 20°. 1315-1330': strong ca altn.
1330.0-1363.0	Altered Sheared And Brecciated Andesite	Buff grey	F.g.		Fractured, sheared and locally brecciated.	Intense ca. Strong ser.	Odd speck py.	Shearing 20-40°.
1363.0-1369.0	Fault Zone	Buff grey	F.g.		Schistose and brecciated.			Shearing 10-40°. Ca-ser schist.
1369.0-1378.0	Alt Qtz Diorite	Med to buff grey	M.f.g.		Massive. Some shearing.	Strong ca; mod ser.		Low angle shearing.
1378.0-1392.0	Fault Zone	Pale grey to buff grey	F.g.		Brecciated and schistose.			Fault breccia and schist. Low angle shearing.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
1392.0-1418.5	Altered Amygd Andesite	Pale grn to buff grey	F.g.		Weakly amygd. Local shearing. Weakly fract'd.	Intense ca.		Local 20° shearing.
1418.5-1441.0	Fault Zone (New Lorie)	Grn to buff grey	F.g.		Strongly brecciated. Locally scistose.			Fault breccia. 20°-30° shearing. Qtz-ca-ser breccia.
1441.0-1473.0	Amygd Andesite P.L.	Dark grey	M.f.g.	Locally weakly porph (fs).	Mod amygd. Broadly pillowed. Mod fract'd.	Chl filled amygd. Weak ca. Ca-ser filled frs.		Numerous small granodiorite dykelets. Frs 65-80° and low angle frs.
1473.0-1511.0	Grano-Diorite	Mottled Pinkish grey.	M.g.		Massive.		Odd speck py.	50% fs and 25% qtz and 25% mafics. Cts 80° and 50°.
1511.0-1534.5	Amygd Andesite P.L.	Grn-grey	M.f.g.	Weakly porph.	Weakly to mod amygd. Well pill'd. Weakly fract'd.	Dusty and patchy sauss. Weak chl rag.		Frs low angle and 65 to 80°.
1534.5-1546.0	Tuff?	Med grey	M.f.g.	Questionable fragmental.	Massive.		Py-po mineralization associated with shearing.	Local 60-70° shearing. 1545-1546': shear zone. Shearing 30°-45°.
1546.0-1586.5	Massive Rhyolite	Grn grey	F.g.	Weakly porph (fs).	Massive.	Strong chl altn.		Chl altn give core a mottled appearance. Local hematite staining from the granite.
1586.5-1617.0	Andesite Dyke Diorite?	Grn grey	F.g.	Locally weakly porph.	Massive.	Mottled sauss altn.		F.g. diorite? Near ct 40° (sharp). Does not appear to be any chilling. Slightly amygd in upper 5'. 1606-1609': f.g. grn-grey andesite dyke. Cts 80° and 60°.
1617.0-1623.0	Grano-Diorite	Mottled pinkish grey	M.g.		Massive.			Cts 35° and 80°.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
1623.0-1685.0	Diorite	Grn-grey	F.g.	Locally weakly porph.	Massive. Weakly to mod fract'd.	Mottled sauss.- Ser filled frs.		Frs 45° and 80°. Frs well healed.
1685.0-1690.0	Altered & Fract'd Diorite.	Grn-grey	F.g.		Massive. Highly fract'd.	Strong ca. Ca filled frs.		Frs 50-80°.
1690.0-1695.0	Altered Grano-Diorite	Pale grn-grey	M.g.		Massive.	Epid and ca.		Cts 60° and ground.
1695.0-1808.0	Diorite	Grn-grey	F.g.	Locally weakly porph.	Massive. Mod to strongly fract'd.	Ser filled frs. Locally mottled sauss.		As 1623-1685'. Frs well healed. Fracturing increasing towards end of section.
1808.0-1829.0	Grano-Diorite	Mottled pinkish grey	M.g.		Massive.			
1829.0-1882.0	Diorite	Grn-grey	F.g.		Massive. Mod fract'd.	Ser filled frs. Local mottled sauss.		Frs well healed. Frs 45°-60°. Fracturing increasing towards end of section.
1882.0-1893.0	Fract'd Diorite	Grn-grey	F.g.		Massive. Highly fract'd.	Ca-ser-qtz filled frs. Mod ca.		Frs 40°.
1893.0-1940.5	Diorite	Grn-grey to dark grey	F.g.		Massive. Very weakly fract'd.	Mottled sauss altn.		Odd 40° grano-diorite stgr. Far ct 80° slightly chilled.
1940.5-1994.0	Rhyolite Breccia	Med grey	F.g.	Fragmental	Brecciated.	Ser and sauss. Minor chl rag. Local chl spot. Local hematite stain from the granite.	Local diss py.	Scattered rounded and angular frags.

Depth	Rock Type	Colour & % Felsic	Grain Size	Texture	Structure	Alteration	Sulphides	Remarks
1994.0-1999.0	Andesite Dyke	Grn-grey	F.g.		Massive.			Cts very irregular and gradational. Odd rhyolite inclusion.
1999.0-2005.0	Rhyolite Breccia	Med grey	F.g.		Brecciated.	Chl-sauss-epid frags.		Some frags look like amygds.
2005.0-2007.0	Andesite Dyke	Grn-grey	F.g.		Massive.			Upper ct 65°.
					END OF HOLE			