KL-75-4

2D-35

KL-75-4

UNITED KENO EXPLORATION

Diamond Drill Hole Log Page 1 of 11

082128

PROPERTY: KING LAKE | LOCATION: 105-D-14 | CORE SIZE: BQ | STARTED: Sept 5, 1975 | COMPLETED: Sept 9/75 | LOGGED BY: A. Beaven

SECTION: | NORTHING: 14+00N | EASTING: 4+50 W | ELEVATION (collar): | ELEVATION (ground): 3345 | BEARING: 134°

DEPTH: 401 | DIP (collar): -60° SE | DIP SURVEYS: Didn't work | PURPOSE: To check structure & mineralization of qtz monzonite

FOOTAGE From	FOOTAGE To	Minor From	Minor To	Rec.	LITHOLOGY	Graphic Contact	ALTERATION (w-weak, m-moderate, s-strong): stain	2ndary qtz.	epi.	chl.	k fel	kaolin	leum.	sil.	oxid.		STRUCTURE ~~FOLIATION~~ graphic	degree	angle	FRACTURES graphic	density	angle	MINERALIZATION mo:	bn:	cp:	mt:	py	Occurrence
0	22				OB																							
22	626				2 Mesocratic diorite - med grey colour - saccharoidal with tex of the anhedral clots (up to 1mm) If rock is hypidiomorphic granular granulose in which mafics occur interstitially to felds. - mafics are partly altered to chlorite, epidote, and malachite(?) some epidote shows rings with malachite core surrounded by chlorite. Biotite & hornblende seen as mafics unaltered. Feld ~ 60% Mafics ~ 20%	—	Tr/mbl	W/Fe.E ¼"	W/yn/mbl	M/mbl bs.						Fract		Mesocratic		rough	3/ft.	50°	Tr		Tr	Tr	Tr	mo - Tr. smears on fracs cp - dis. under mt. mt - major on fracs py - disc. mt. mt - major the mt - disc. with mo - disc. Tr. graphite on some fractures

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UNITED KENO EXPLORATION

Diamond Drill Hole Log Page 2

FOOTAGE From	FOOTAGE To	Minor From	Minor To	Rec.	LITHOLOGY	Graphic Contact	ALTERATION: w-weak, m-moderate, s-strong: CO2 stain	2nd qtz.	epi.	chl.	k fel	kaolin	laum.	sil.	oxid.	wall	STRUCTURE: ~~FOLIATION~~ graphic	degree	angle	FRACTURES graphic	density	angle	MINERALIZATION mo	bn	cp	mt	py	Occurrence
					Bot. 4 + lon ~ 20%																							
					calcite - < 1%																							
					magnetite < 1%																							
					- Diorite shows		M-S/mpl		M/mpl	M/mpl	S/p	S/mpl																
					patchy areas of																							
					strong alteration																							
					- These areas associated																							
					with fractures																							
					- Other areas show																							
					similar porph. texture																							
					- Alt. - Felsic enrichment																							
					Fell ~ 30%																							
					- mafics completely																							
					altered to chl, epi																							
					and lite																							
					- calcite constitutes																							
					~ 3-4% Fract																							
					- Feldspars are turbid																							
					white due to kaolin																							
					- Diorite also has																							
					patches of med gr.																							
					green alt. rock. Tex-																							
					ture often mottled																							
					- little or no felsic																							
					material.																							

Hole No. 75-4 Pg. 2

UNITED KENO EXPLORATION

Diamond Drill Hole Log Page 3

STRUCTURE

FOOTAGE From	FOOTAGE To	Minor From	Minor To	Rec.	LITHOLOGY	Graphic Contact	ALTERATION: w-weak, m-moderate, s-strong: CO_2 stain	2nd qtz.	epi.	chl.	k fel	kaolin	sec laum.	sil.	oxid.	wents	FOLIATION graphic	degree	angle	FRACTURES graphic	density	angle	MINERALIZATION mo:	bn:	cp:	mt:	py	Occurrence
					- These green alt. rocks are mainly of chl, epi, uralite, carbonate and some serpentine (?) - They occur together with the felsic rich sericitized zones and occur along fractures																							
		24.2	33.6	9.4	1a - Patchy zone of alteration - zones of felsic rich kaolinized rock (porph with alt. mafic phenos) - contact in places gradational over 1/4" to fresh diorite. In places fresh & altered diorite separated by fractures. These fractures are made up of The green alt. rock (mainly of chl, epi, carb, uralite with little felspar)	good contact	W-M mod altn.		W/mod	W-M mod	M/P	M/mod				—		Massive		chl cp filled	1/ft	20°			Tr		Tr	cp & py occur in filling fractures + dis with mafics.
																				filled with green alt. rock. Some shearing.	—	0°						

Hole No. 75-4 Pg. 3

UNITED KENO EXPLORATION

Diamond Drill Hole Log Page 4

FOOTAGE From	FOOTAGE To	Minor From	Minor To	Rec.	LITHOLOGY	Graphic Contact	ALTERATION (w-weak, m-moderate, s-strong): stain	2nd qtz.	epi.	chl.	k fel	kaolin	sericite leum.	sil.	oxid.	weat.	FOLIATION graphic	FOLIATION degree	FOLIATION angle	FRACTURES graphic	FRACTURES density	FRACTURES angle	MINERALIZATION mo:	bn:	cp:	mt:	py	Occurrence
					also in zone of fabric rich kaolinized rock at ~33.4 is a fragment (angular-sub-angular) of green alt rock which appears to be a xenolith																							
		33.6	35.2	100%	1b green alt rock - structureless - fine-med grained mass of green minerals (chl + uralite?) - In places texture looks porph - Possibly sheared, granitized + altered diorite?	Top grad over 1/4" Bottom sharp.	W/Mpl		M/Mpl	M-S/Mpl						–		Massive									Tr	
		35.2	36.3	100%	1a Patchy fabric rich kaolinized zone - spans 24.2-33.6	grad	M/Mpl		W/Mpl	M/Mpl	M/P	M/Mpl					–	Massive (patchy alteration)		planar "	– –	20° 50°					Tr	Py on fns.
		57.7	58.3	100%	10a - dk gy monzonite - chilled fine grained body in gy monz. ~ 1/4-1/2" of gy monzite	Top - sharp 25° Bottom sharp ~ 25°	–	W/Fr.E.	W/Frs	–	–	–	–	–	–	–		Massive						Tr		Tr	Tr	Tr disseminated Tr pyrrhotite on fracture

Hole No. 75-4 Pg. 4

UNITED KENO EXPLORATION

Diamond Drill Hole Log Page 5

STRUCTURE

FOOTAGE From	FOOTAGE To	Minor From	Minor To	Rec.	LITHOLOGY	Graphic Contact	ALTERATION (w-weak, m-moderate, s-strong): stain	2nd qtz.	epi.	chl.	k fel	kaolin	lawm.	sil.	oxid.	weat.	FOLIATION graphic	degree	angle	FRACTURES graphic	density	angle	MINERALIZATION mo:	bn:	cp:	mt:	py	Occurrence
					- contacts are sharp																							
					▽ diorite must have																							
					been 'cold' when																							
					qtz. monz. intruded																							
82.6	83.5			75%	10a Pg monzonite(?)	Top - core broke up over 6" but contact appears to be sharp. Bottom - sharp but core broken up	w-m / fg + wpl		w/ wpl	w/ wpl + fgs		w-m / wpl						Massive										Tr. dis py.
					- core is broken up.																							
					- med to coarse grained																							
					- med. grained at Top +																							
					bottom contact - coarse																							
					grained in centre over																							
					2'																							
					- med grained is equigranular																							
					with only a few large																							
					clots of mafics																							
					- colour is greenish due																							
					to chloritization of																							
					mafics - pink feldspars																							
					are absent (maybe																							
					a granodiorite)																							
					- rock generally																							
					looks mod. alt. with																							
					albite + in places is																							
					strongly fractured																							
					with carbonate																							
					fillings + some kaolin																							
					of feldspars + carb.																							

UNITED KENO EXPLORATION

Diamond Drill Hole Log Page 6

FOOTAGE From	FOOTAGE To	Minor From	Minor To	Rec.	LITHOLOGY	Graphic Contact	ALTERATION: w-weak, m-moderate, s-strong: ~~stem~~	~~2nd qtz.~~	epi.	chl.	k fel	kaolin	~~sau lum.~~	sil.	oxid.		STRUCTURE ~~FOLIATION~~ graphic	degree	angle	FRACTURES graphic	density	angle	MINERALIZATION mo	bn	cp	mt	py	Occurrence
13.5	130.0			95%	2 diorite - relatively fresh except for chl. of mafics - porph tex. same as before - felsic rich kaolinized patches absent. - vn of qtz + fel Ab probably related to Qtz Mons - some have B. cp.	Top - chunk but core broken up	W/fes		W/hbl	W-M/hbl + fes.	W/vn qtz + fel			W/vn qtz + fel	W/hem fes	-		Massive.		filled with chl, fel, qtz Tr. cp.	7/ft	35°			Tr		Tr.	Tr dis + Tr. on fes. + Tr. in qtz + fel vn. (1/4")
		116'			small angular xenolith (1") of fine grained green rock - diorite approaching qtz monzonite contact appears more felsic + lighter colored																							
130.0	222.3			75%	106 Qtz. Mons - lt greenish colored in places containing pinkish fld. Porph texture due to large clots of chl. mafics + a few large pink euhedral fld.	Top sharp - small white qtz vein - 1/4" thick at contact	W/hbl + fes.		W/hbl	M/hbl fes.		MTS? /hbl Fr. E			-	-		Massive					Tr.		Tr		02%	sporadic dis with mafic clots + ~~some~~ rare on fes. one speck of mo was seen on fracture graphite occurs on ~~rare fes as coating~~ fes

UNITED KENO EXPLORATION

Diamond Drill Hole Log Page 7

FOOTAGE From	FOOTAGE To	Minor From	Minor To	Rec.	LITHOLOGY	Graphic Contact	ALTERATION (w-weak, m-moderate, s-strong): stem	2nd qtz.	epi.	chl.	k fel	kaolin	lawm.	sil.	oxid.	weat.	STRUCTURE ~~FOLIATION~~ graphic	degree	angle	FRACTURES graphic	density	angle	MINERALIZATION mo	bn	cp	mt	py	Occurrence
					-This section is overall moderately altered. Some of the rock is felsic rich with mafics occuring only in streaks. These sections are associated with strong kaolinization of feldspars. Alteration is generally patchy going from weak to strong. -In this section the core is broken up in parts rubbly.																							
226.3	242.8			100	Qtz-Marg-Fred rock - shows typical hypidiomorphic granular texture with slight porph texture due to large mafic clots + some large euhedral pink feldspars. -core is more solid.	Top-grad.	w/patch		w/vn	w/patch fes.		w/Fe E 1/4"	w/Fe E 1/3"	-	-		Massive		Smooth epi.cp py 266'	6/ft. -	50° 20°			Tr	Tr	Tr	cp+py dis w/ fe mafics + fes. py >> cp. most is growing into stringers w/ in 2 mm
																			epi.cp py 262		20°							
																			epi py 270°	-	20°							

UNITED KENO EXPLORATION

Diamond Drill Hole Log Page 8 STRUCTURE

FOOTAGE From	FOOTAGE To	Minor From	Minor To	Rec.	LITHOLOGY	Graphic Contact	ALTERATION (w-weak, m-moderate, s-strong): CO3 stain	2nd qtz.	epi.	chl.	k fel	kaolin	laum.	sil.	oxid.		FOLIATION graphic	degree	angle	FRACTURES graphic	density	angle	MINERALIZATION mo	bn	cp	mt	py	Occurrence
		264			Small zenolith (1" dia) of fine grained green altered rock. Zenolith is subangular with sharp outline																							
		281.3	285.4	Drill	- altered & fractured zone - Pbs enriched with Hb. alteration. Fracture Quartz fracture ½" shows breccia fragments in chl matrix. Mineralization some Wk sec. alt along fracture	Top grad. bottom grad.	W/frs		M/frs				W/Fr.E 1/8"					Massive		rough	10/ft	45°			Tr	Tr	Tr	cp→py sections & dis.
		315			xenolith - same size to 264'																							
42.3	55.5				2 diorite - med-coarse grained hypidiomorphic granular - somewhat porph. with large 3-4mm clots of matrix. Matrix partly altered to chl + epi	Top sharp. 40°		W/Fr.E 1/8"	W/wpl frs. in	M/wpl					-	-		Massive							✓		✓	cp→py sections & dis

UNITED KENO EXPLORATION

Diamond Drill Hole Log Page 9

FOOTAGE From	FOOTAGE To	Minor From	Minor To	Rec.	LITHOLOGY	Graphic Contact	ALTERATION (w-weak, m-moderate, s-strong): stain	2nd qtz.	epi.	chl.	k fel	kaolin	lawm.	sil.	oxid.		STRUCTURE FOLIATION graphic	degree	angle	FRACTURES graphic	density	angle	MINERALIZATION mo	bn	cp	mt	py	Occurrence
					- med grey colour - w pink feldspars - appears to be banded phenocrysts - some small w of pink feldspar material. - some small origin xenoliths subangular ~ 1" dia roots - is pretty assimilated.																							
875	22"			95%	10 Sheared vangl (?) - heterogeneously rock - boulders (1/2 to 24") of coarsely grained equi-granular diorite rocks - These boulders are moderately altered (chl, epi, sericite) - Matrix is fine to coarse grained, dk green colour - chloritized - boulders have closely spaced chl fractures [illegible]	Top-irregular			M/Ill	S/Ill						Massive (unfoliated)								Tr		Tr	cp, py occurs Along fractures + some dis. occurrence.

Hole No. 75-4 Pg. 9

UNITED KENO EXPLORATION

Diamond Drill Hole Log Page 10 STRUCTURE

FOOTAGE From	FOOTAGE To	Minor From	Minor To	Rec.	LITHOLOGY	Graphic Contact	ALTERATION: w-weak, m-moderate, s-strong: stain	2nd qtz.	epi.	chl.	k fel	kaolin	laum.	sil.	oxid.		FOLIATION graphic	degree	angle	FRACTURES graphic	density	angle	MINERALIZATION mo	bn	cp	mt	py	Occurrence
372	382.4			100%	6b altered gabbro - looks texturally like a mafic dike gabbro - coarse grained allotriomorphic granular. Lt minerals ~ 25-30% - dk ~ 70%. Feldspar → sauss + CO3. Mafics → chl + hbn. - lt bottom contact slight alt of adjoining rock see 1/8" - probably dike of gabbro?	Tok sharp 55° bottom sharp 40°	M/mpl	M/mpl		S/mpl								Moderate						Tr	1/8	Tr	Tr. py + cp in fs. Mt. dis - B.
382.4	385.1			100%	1a coarse grained sheared diaritic rock - some quartz in sheared zone amorphic	—																						
385.1	386.5			100%	6b altered gabbro - same as 372 - 382.4	Tok sharp bottom sharp 50°																						
386.5	401			100%	1a diorite - med-coarse grained hypidiomorphic granular - mafics chloritized.					Mod chl	M/vn							Moderate						Tr		Tr	cp, py & in fel vn. & dis

Hole No. 75-4 Pg. 10

DD-35

391-393.4

UNITED KENO EXPLORATION

Diamond Drill Hole Log Page 11

FOOTAGE From	FOOTAGE To	Minor From	Minor To	Rec.	LITHOLOGY	Graphic Contact	ALTERATION: w-weak, m-moderate, s-strong stain	2nd qtz.	epi.	chl.	k fel	kaolin	tourm.	sil.	oxid.		FOLIATION graphic	degree	angle	FRACTURES graphic	density	angle	MINERALIZATION mo	bn	cp	mt	py	Occurrence
					Feldspar-qtz																							
					grey-colored																							
					[illegible]																							
					[illegible] grey/green																							
					[illegible]																							
					[illegible]																							
					[illegible] mineral																							
					[illegible] at																							
					[illegible] H																							
					grey-colored																							
		391	393.4		Segment on dike	Top [illegible] sharp [illegible]												Massive.						Tr		Tr		
					of pinkish marginite																							
					[illegible] grained typical																							
					[illegible] grained																							
					rock with pink feldspars																							
					[illegible]																							
					(in preceding)																							
					contact are sharp.																							

Hole No. 75-4 Pg. 11