KL-75-3

KL-75-3

DD-35

UNITED KENO EXPLORATION

Diamond Drill Hole Log Page 1 of 10

08129

PROPERTY King Lake **LOCATION** 105-D-14 **CORE SIZE** BQ **STARTED** Aug 30/75 **COMPLETED** Sept 5/75 **LOGGED BY** A. Beavan.

SECTION ______ **NORTHING** 14+00 N **EASTING** 6+75 W **ELEVATION (collar)** ______ **ELEVATION (ground)** 3343 **BEARING** 134°

DEPTH 521 **DIP (collar)** -60°SE **DIP SURVEYS** 521' = 64° **PURPOSE** To check IP anomaly coincident with +8000 gamma mag near Cu, Mo surface showing in Qz. Monzonite.

FOOTAGE From	FOOTAGE To	Minor From	Minor To	Rec.	LITHOLOGY	Graphic Contact	ALTERATION (w-weak, m-moderate, s-strong): CO2 (~~stain~~)	SAUS (~~2nd qtz.~~)	epi.	chl.	k fel	kaolin	laum.	sil.	Fe oxid.	weat.	STRUCTURE (~~FOLIATION~~) graphic	degree	angle	FRACTURES graphic	density	angle	mo	bn	cp	mt	py	Occurrence
0	12			10%	OB - [illegible]																							
12	22.0			90%	1b completely altered mafic rock - chlorite, saussurite, uralite, carbonate alteration: med green colour - mottled texture and colour. chlorite - 10-15% saussurite - 30-40% calcite - 5% uralite - 30-40% some large (2mm) mafics only partly altered but unrecognizable ~5%. 1-2% magnetite (whole rock has propylitic alteration assemblage). - appears to be altered from a med grained basic rock.		M/repl w 3-5%	S/repl 30-40%		S/repl 10-15% w/frs.				w/qtz vn.		unweathered [illegible]		massive		rough or filled.	2/ft. 3/ft.	30° 60°				.1%	2-3% Tr	Tr. py on fractures with [illegible] + mag. dis throughout.
		17	18	40%	- same - core broken up + pebbly.																							

UNITED KENO EXPLORATION

Diamond Drill Hole Log Page 2 STRUCTURE

FOOTAGE From	FOOTAGE To	Minor From	Minor To	Rec.	LITHOLOGY	Graphic Contact	ALTERATION: CO2 stain	sauss.	epi.	chl.	fel	kaolin	laum.	sil.	Fe oxid.	Weath.	FOLIATION graphic	degree	angle	FRACTURES graphic	density	angle	mo	bn	cp	mt	py	Occurrence
		20.8	21.4	50%	Same - core broken up and Lm stain on frs + frs. E. - probably weathering feature										Lm-frs fr.E-M	M/lm												
[illegible]	32.5			[illegible]	6a Gabbroic rock - med. grey to black variable with mafic content - allotriomorphic granular (gabbroic) texture. - Average mineral composition Feldspar - 50-60% Mafic (Pyroxene) - 30-40% Magnetite - 3-4% - associated with mafics. - Rock is fresh with only serpentine + calcite in fractures and veinlets. - Composition is variable from felsic rich to mafic rich - felsic zones contain up to 85% feldspar + occur over lengths of 2'-3'. - Mafic rich layers	indistinct - core broken up	w/fr (Cc)	—	—	—	w/fr	—	—	—	—	—		Massive - crude mineral layering (felsic rich + mafic rich layers)		rough; rough	5/ft; 6/ft	50°; 40°				3-5%	Tr	Mag. dis. in grains with mafics; Py as coatings on frs. (rare)

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Diamond Drill Hole Log Page 3

FOOTAGE From	FOOTAGE To	Minor From	Minor To	Rec.	LITHOLOGY	Graphic Contact	ALTERATION: CO_3 ~~stain~~	~~2nd qtz.~~	epi.	chl.	k fel	kaolin	~~leum.~~	sil.	Fe oxid.	Neut.	STRUCTURE (~~FOLIATION~~) graphic	degree	angle	FRACTURES graphic	density	angle	MINERALIZATION mo	bn	cp	mt	py	Occurrence
				—	less abundant + generally are <1' intersection. Mafic mineral up to 70-80% - Changes from felsic rich to mafic rich zones are gradational. - Top contact - appears fairly sharp. Grain size in altered rock increases somewhat near contact (~1' contact zone) - gabbro shows no change in grain size. - some regeneration of 2ndary biotite (<1%) in altered rock up to 1' from contact.																							
		49.0	52.4	100%	66 altered zone (?) - med. greenish colour - mafics partly altered to chlorite and green amphibole - Feldspars only altered around grain	grad.	W/fs	W/repl		M/repl								Massive		All fractures rough - some polished with serpentine + calcite						1-2%	—	Mag. dis. grains

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Diamond Drill Hole Log Page 4 STRUCTURE

FOOTAGE From	FOOTAGE To	Minor From	Minor To	Rec.	LITHOLOGY	Graphic Contact	ALTERATION: stain	2nd qtz.	epi.	chl.	k fel	kaolin	laum.	sil.	oxid.	weath	FOLIATION graphic	degree	angle	FRACTURES graphic	density	angle	mo	bn	cp	mt	py	MINERALIZATION Occurrence
					boundaries to same. - Magnetite 1-2% unaltered. - Rock is much softer & easily cut by a knife - fractures contain serpentine and carbonate																							
		193	197	70%	- fractured zone - core is rubbly. Ab. fracture fillings of serpentine + calcite - rock unaltered.	—	H/[illegible]	—	—	—	—	—	—	—	—	—	+	—		rough [illegible]	—	0°				1-2%	—	
		219.6	231.0	80%	- fracture zone (same as 193-197) - core is rubbly due to fractures with serpentine & calcite fillings parallel to core axis - rock is unaltered.		H/[illegible]	—	—	—	—	—	—	—	—	—		—		rough	—	0°				1-2%	—	
		250.3	261.4	85%	- med grained diabase or gabbro - patchy + includes small sections of fresh core	sharp 15° botto[m] indistinct grad.	—	—	—	W/ repl 2ndy biotite + 2ndy amphibole?	—	—	—	—	—	—		Massive		planar	3/ft	45°						
																				planar	1/ft	25°				2-3%	Tr	

" " filler

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Diamond Drill Hole Log Page 5 STRUCTURE

FOOTAGE From	FOOTAGE To	Minor From	Minor To	Rec.	LITHOLOGY	Graphic Contact	ALTERATION: CO_3 ~~stain~~	sauss ~~2nd qtz.~~	epi.	chl.	k fel	kaolin	~~laum.~~	sil.	oxid.	Weath.	~~FOLIATION~~ graphic	degree	angle	FRACTURES graphic	density	angle	mo	bn	cp	mt	py	Occurrence
					gabbro -colour is med green/grey. -distinctive mineral is brown 2ndy biotite - -greenish colour seems caused by partial chloritization of mafics + possibly some amphibole. -parts of section strongly fractured with calcite + serpentine fillings.																							
		2614	2650	100%	fine - med grained mafic rich gabbro (?) - fine grained at 2614 - black - gradational to med. gr at 2650. gradational to coarse. grained gabbro - unaltered except for serpentine + calcite fracture fillings.	Top - interfingered + grad. bottom - grad.	w/vn											Massive.								2-3%		

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Diamond Drill Hole Log Page 6

FOOTAGE From	FOOTAGE To	Minor From	Minor To	Rec.	LITHOLOGY	Graphic Contact	ALTERATION: stain (CO_2)	2nd qtz. (Saus.)	epi.	chl.	k fel	kaolin	~~laum.~~	sil.	oxid.	weath	STRUCTURE (~~FOLIATION~~) graphic	degree	angle	FRACTURES graphic	density	angle	mo	bn	cp	mt	py	Occurrence
84.5	280.3			95%	6b altered gabbro? - med green colour. med-coarse grained. - mottled appearance - mafics partially replaced by chlorite + green amphibole. - Ab. vn. cal + fd. - magnetite much less Ab (<1%) associated with fresh mafic grains	Top grad. over 2'	M/vn			M/p	mod/vn							Massive		rough.	3/ft	40				<1%	Tr.	Tr. py in fractures.
280.3	294.3			95%	1b fine grained - med. gr. completely altered rock (same as 12-22) - feldspars c⇒ saussurite 30-40% - mafics c⇒ chlorite + green amphibole 30-40% - A few surviving large fresh grains of mafics ~5% - magnetite almost absent	Top - grad. with med grain. bottom - grad.	M/vn	S/repl	M/vn	S/repl				W/Fr.E.				Massive							<<1%	Tr.	<1%	cp in B. assoc with calcite vn. py in B along fractures. py >> cp.
294.3	295.5			100%	Contact zone - lt. green colour.	grad. over 2" contact laminated or sheared.				W/frs	W/frs + Fr.E			W/frs + Fr.E				lamination at contact	60°						-	-	<1%	py occurs dis + B along fractures + in Fr. E

UNITED KENO EXPLORATION

Diamond Drill Hole Log Page 9

STRUCTURE

FOOTAGE From	FOOTAGE To	Minor From	Minor To	Rec.	LITHOLOGY	Graphic Contact	ALTERATION: stain	2nd qtz	epi.	chl.	k fel	kaolin	ser.	sil.	oxid.	weath	FOLIATION graphic	degree	angle	FRACTURES graphic	density	angle	mo	bn	cp	mt	py	MINERALIZATION Occurrence
		360.3	361	100%	small breccia zone - fracture filled with chlorite enclosing small (2mm) + large grains of feldspar. B. py in chl.					M/vn										chl filled rough	17/ft.	70°					Tr.	B. py in chl vn.
371.5	392.0			95%	10b Altered zone + fractured zone -	grad.	W/repl + frs		W-M/repl	W-M repl M/frs	M-S/Fr. E	M/Fr. E		M-S/Fr. E				Appears foliated due to abundance of chloritic fractures	50°	chl	23/ft.	50°			Tr	Tr	Tr	Tr. B on fractures + dis with mafics. py >> cp.
		371.5	375.0		371.5-375 - Rock still fresh looking but Ab fracture (~23/ft) with chl + epi fracture - also Ab fel + sil enrichment in Fr. E up to 1" thick - Tr. cp + py. Also weak - mod kaolin in Fr. E 1/16" thick	Top + ecker grad																						
		375.0	392.5		Strongly altered - rock is white/greenish color feldspar → (complete) kaolin, mafics → (complete) chl + epi; kaolin - 60%, chl - 10%, epi - 10%, calcite - 1-2%, qtz - 10-20%	Top exception grad	W/frs + repl		M/repl + frs.	M/repl + frs	W-M/Fr. E	S/repl.	repl	W-M/Fr. E				——		smooth + polished; rough	18/ft.	40°; 15°			Tr.		Tr	dis in altered rock + B in frs. (py >> cp)

UNITED KENO EXPLORATION

Diamond Drill Hole Log Page #8

STRUCTURE

FOOTAGE		Minor		Rec.	LITHOLOGY	Graphic	ALTERATION : w-weak, m-moderate, s-strong										FOLIATION			FRACTURES			MINERALIZATION					
From	To	From	To			Contact	stain	2nd qtz.	epi.	chl.	k fel	kaolin	ser / laum.	sil.	oxid.	weath	graphic	degree	angle	graphic	density	angle	mo:	bn:	cp:	mt:	py	Occurrence
					Rock also highly fractured																							
					(but more irregular																							
				A	fracturing than 371.5-375.0)																							
		392.5	399.0		Same as 371.5-375.0		M/hpl frs.		W-M/hpl frs	W-M/hpl frs	M/Fr.E	M/Fr.E.		M/Fr.E				Massive		rough	10/ft	50°			Tr		Tr.	
					- kaolin alt in Fr.E.													but mod well fractured										
					- Ab. Fr.E fel + sil																							
					- chl fractures																							
					'not as highly																							
					fractured'.																							
					380.7-381.2 - core																							
					rotted + crumbly.																							
		482'			small rounded																							
					xenolith .5" diameter-																							
					-greenstone xenolith																							
					chl-epi alt.																							
					-non magnetic																							
					-similar to altered																							
					green rock seen at top																							
					of hole 12'-22'.																							

UNITED KENO EXPLORATION

Diamond Drill Hole Log Page 9

Footage From	Footage To	Minor From	Minor To	Rec.	Lithology	Graphic Contact	Alteration: ~~stain~~ CO3	~~2nd qtz~~	epi.	chl.	k fel	kaolin	~~laum.~~	sil.	oxid.	weath	Structure (~~Foliation~~): graphic	degree	angle	Fractures: graphic	density	angle	mo	bn	cp	mt	py	Occurrence
					siliceous, laminated zone - possibly hybrid of qtz monz. No grains visible.																							
295.5	521.0			95%	10a - qtz. monz. -colour - felsic minerals are grey + pinkish colour. Mafics are green due to chloritization -overall colour greenish grey. ·hypidiomorphic granular - somewhat porphyritic with large pink euhedral feldspars up to 5mm + some larger irregular clots of mafics up to 8mm. -qtz - 15-20% feld - 60-70% mafics predom biotite partial → chlorite + minor epidote. Some hornblende. biotite - 10% chlorite 5% epidote 1%		W/repl grn		W/repl	M/repl + frs.		W/repl YnE						Massive		rough	11/ft	60°			Tr	Tr	Tr	mag. in fr-case dis grains assoc. mafics (so dis grains ...) py + cp in fr dis grains assoc. mafics + in fillings on hairline fractures
																				rough	9/ft	65°						
																				polished chl.	/	0°						
																				polished graphite @325'	core broken up.	10°						
																				chl, epi, cp, py @340'	-	10°						
																				chl, cp, py at 360'	-	0°						
																				chl, epi, cp+py at 404'	—	25°						
																				chl, cp+py @407'	—	20°						
																				chl cp+py at 429'	—	20°						
																				chl py @441'		70°						
																				chl cp at 455'	-	25°						
																				epi, chl cp, py at 470'	—	15°						
																				chl, py cp @ 489'	5/ft	50°			Tr		.2%	dis along frs. py >> cp.

DD-35

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	lawm.	sil.	oxid.	Weath	FOLIATION: graphic	degree	angle	FRACTURES: graphic	density	angle	MINERALIZATION: mo: bn: cp: mt: py	Occurrence
					magnetite - Tr.																			
					pyrite - Tr. 1-2%																			
					chalcopyrite - < .1%																			
					- alteration: mafic																			
					minerals generally																			
					weakly chloritized																			
					and also most fractures																			
					selected with chlorite																			
					- minor epi alteration																			
					of mafics and minor																			
					epi on f.s. Also minor																			
					or if epi but rare <																			
					1/16" thick. Also minor with																			
					kaolin Fr. E.																			
					- Feldspars are white																			
					and chalky along																			
					some fracture (fracture envelope																			
					~ 1/4" on both sides of																			
					fracture) - kaolin alteration.																			
					- Calcite occurs in places																			
					in vn (1/16") in fracture and																			
					also minor calcite in																			
					rock from alteration (1-2%)																			
					- graphite coatings on																			
					fracture occurs in two																			
					places (thin < 1/16" coating)																			
					- mineralized fractures																			
					assoc. with chl + epi alt.																			

Hole No. 75-3 Pg. 8