Contractor LANG | Coordinates SITE 55 | Project GILT EDGE | Hole No. RE8-418

Drill Type | Casing Depth | State SD | Sheet 1 of 6

Hole Size | Bearing – | Inclination 90 | Date Started 8-11-88 | Property GILT EDGE

Collar Elev. | Final Depth 1000' | Date Completed 8-13-88 | Hole Surveyed

DISTANCE (feet)	GRAPHIC LOGS: ALTERATION (1 Weak, 2 Moderate, 3 Strong)	TOTAL SULFIDES (vol %)	ROCK CODE	ORE CODE	DOWN HOLE LOCATION: DISTANCE DOWN HOLE (feet)	ELEVATION	GEOLOGIC NOTES: ROCK TYPE	DESCRIPTION: MINERALOGY, ALTERATION, TEXTURES, GRAIN SIZE, FRAGMENT SIZE	MINERALIZATION: DISTRIBUTION Massive, Disseminated, Veintill, Replacement	TYPE	ASSAY Au	ASSAY Ag
			60	9	0-5		Tlp	0-335 TRACHYTE PORPHYRY	0- OXIDE 3-5% mostly			
								(2-3% matrix w/ quartz, pyrite,	0-1% MSOX			
								crystals)				
								(0-45) 5-20% gray/yellow clay.				
					20-25							
					45-50							
					70-75							
					95-100							
					120-125							
					145-150							
					170-175							

DRILL CUTTING LOG

Logged by:

Contractor _____ Coordinates _____ Project _____ Hole No. RE8-418

Drill Type _____ Casing Depth _____ State _____ Sheet 2 of 6

Hole Size _____ Bearing _____ Inclination _____ Date Started _____ Property _____

Collar Elev. _____ Final Depth _____ Date Completed _____ Hole Surveyed _____

DISTANCE (feet)	GRAPHIC LOGS: ALTERATION (1 Weak, 2 Moderate, 3 Strong)	TOTAL SULFIDES (vol %)	ROCK CODE	ORE CODE	DOWN HOLE LOCATION: DISTANCE DOWN HOLE (feet)	ELEVATION	GEOLOGIC NOTES: ROCK TYPE	DESCRIPTION: MINERALOGY, ALTERATION, TEXTURES, GRAIN SIZE, FRAGMENT SIZE	MINERALIZATION: DISTRIBUTION Massive, Disseminated, Veinfill, Replacement / TYPE	ASSAY Au	ASSAY Ag
			60	9	175-180		Ttp		(175-215) 3-5% [illegible] 1-2% MnOx		
					195-200						
					220-225				(215-260) [illegible]		
					245-250						
					270-275			[illegible] tr-1% quartz [illegible] 1-2%	(260-275) [illegible] MnOx		
					295-300				[illegible] MnOx		
					320-325				(320-335) tr-1% [illegible] MnOx		
									325-345 FRACTURED		
			10	1			PC	335-408 PRECAMBRIAN SCHIST	335-380 SULFIDE tr-1% FeS_2 [illegible]		
					345-350						

DRILL CUTTING LOG

Logged by: _____

Contractor _____ Coordinates _____ Project _____ Hole No. R88-418

Drill Type _____ Casing Depth _____ State _____ Sheet 3 of 6

Hole Size _____ Bearing _____ Inclination _____ Date Started _____ Property _____

Collar Elev. _____ Final Depth _____ Date Completed _____ Hole Surveyed _____

DISTANCE (feet)	GRAPHIC LOGS: ALTERATION (1 Weak, 2 Moderate, 3 Strong)	TOTAL SULFIDES (vol %)	ROCK CODE	ORE CODE	DOWN HOLE LOCATION: DISTANCE DOWN HOLE (feet)	ELEVATION	GEOLOGIC NOTES: ROCK TYPE	DESCRIPTION: MINERALOGY, ALTERATION, TEXTURES, GRAIN SIZE, FRAGMENT SIZE	MINERALIZATION: DISTRIBUTION / TYPE (Massive, Disseminated, Veintill, Replacement)	ASSAY Au	ASSAY Ag
			10	1	350-355		PC				
					370-375						
				2					[illegible]		
									[illegible]		
				1					[illegible] — 400 [illegible]		
					395-400				[illegible]		
				3					400 — 450 [illegible]		
							Ttp	408 — 452 TRACHYTE PORPHYRY tr-1% quartz			
					420-425						
									440 — 475 FRACTURED.		
					445-450						
			20	2			PC [illegible]	452 — 466 PRECAMBRIAN CHERT	450 — [illegible]		
			10				PC	466 — 490 PRECAMBRIAN SCHIST			
					470-475						
									(475 — [illegible]) [illegible]		
			70				Tbxa	[illegible] — 525 BRECCIA of Ttp, PC chert, [illegible]	(490 — 525) [illegible] tr-1% [illegible]		
					495-500				490 — 515 FRACTURED.		
					520-525						

DRILL CUTTING LOG

Logged by: _____

Contractor _____ Coordinates _____ Project _____ Hole No. R88-418

Drill Type _____ Casing Depth _____ State _____ Sheet 4 of 6

Hole Size _____ Bearing _____ Inclination _____ Date Started _____ Property _____

Collar Elev. _____ Final Depth _____ Date Completed _____ Hole Surveyed _____

DISTANCE (feet)	GRAPHIC LOGS: ALTERATION (1 Weak, 2 Moderate, 3 Strong)	TOTAL SULFIDES (vol %)	ROCK CODE	ORE CODE	DOWN HOLE LOCATION: DISTANCE DOWN HOLE (feet)	ELEVATION	GEOLOGIC NOTES: ROCK TYPE	DESCRIPTION: MINERALOGY, ALTERATION, TEXTURES, GRAIN SIZE, FRAGMENT SIZE	MINERALIZATION: DISTRIBUTION Massive, Disseminated, Veinfill, Replacement / TYPE	ASSAY Au	ASSAY Ag
			10	2	525-530		PC	525- [illegible] PRECAMBRIAN [illegible]	([illegible]-540) tr-1% [illegible]		
									[illegible]		
									([illegible]) 2-4% [illegible]		
					545-550				[illegible]		
								(55[illegible]-[illegible]) 0-15% Ttp			
									(560-[illegible]) 1-2% [illegible]		
									[illegible]		
					570-575						
			60				Ttp	58[illegible]-655 TRACHYTE PORPHYRY	[illegible]		
								[illegible] quartz, prisms, [illegible] schist	[illegible]		
					595-600			<No return> plugged bit.	([illegible]-[illegible]) 3-5% [illegible]	NA	
									[illegible]		
									[illegible] FRACTURED		
					620-625						
								<40-45% PC schist>	630-650 [illegible]		
					645-650						
								<No return> plugged bit.			
			10				PC	655- PRECAMBRIAN SCHIST	(655-675) [illegible] diss. in PC schist, 1-2% [illegible]		
								<[illegible]-705> 2-10% TRACHYTE			
					670-675						
								<675-740> 4-10% PC chert.	(675-725) 3-5% [illegible], tr-1% FeS_2 diss. in PC schist		
					695-700				695-705 FRACTURED.		

DRILL CUTTING LOG

Logged by:

Contractor _____ Coordinates _____ Project _____ Hole No. RBB-418

Drill Type _____ Casing Depth _____ State _____ Sheet 5 of 6

Hole Size _____ Bearing _____ Inclination _____ Date Started _____ Property _____

Collar Elev. _____ Final Depth _____ Date Completed _____ Hole Surveyed _____

DISTANCE (feet)	GRAPHIC LOGS: ALTERATION (1 Weak, 2 Moderate, 3 Strong) 1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	TOTAL SULFIDES % (vol %)	ROCK CODE	ORE CODE	DOWN HOLE LOCATION: DISTANCE DOWN HOLE (feet)	ELEVATION	ROCK TYPE	GEOLOGIC NOTES: DESCRIPTION (MINERALOGY, ALTERATION, TEXTURES, GRAIN SIZE, FRAGMENT SIZE)	MINERALIZATION: DISTRIBUTION (Massive, Disseminated, Veinlill, Replacement)	TYPE	ASSAY Au	ASSAY Ag
									10	2	700-705		PC					
											720-725				720-725 FRACTURED			
															(725-740) [illegible] 1-3% jarosite			
											745-750				(740-755) tr pyrite, tr FeS_2			
															(755-765) 2-4% jarosite, tr 1% FeS_2			
											770-775				(765-780) tr FeS_2, tr-2% jarosite 765-780 FRACTURED			
															(780-795) tr-1% FeS_2 [illegible] 1-2% jarosite			
										1	795-800				795-985 SULFIDE tr-1% FeS_2 veinlets			
														(810-820) tr-1% Ttp oxidized				
											820-825							
											845-850			(845-865) tr-1% Ttp oxidized	840-845 FRACTURED			
											870-875				865-870 FRACTURED			

DRILL CUTTING LOG

Logged by: _____

Contractor _____ Coordinates _____ Project _____ Hole No. R88-418

Drill Type _____ Casing Depth _____ State _____ Sheet 6 of 6

Hole Size _____ Bearing _____ Inclination _____ Date Started _____ Property _____

Collar Elev. _____ Final Depth _____ Date Completed _____ Hole Surveyed _____

DISTANCE (feet)	GRAPHIC LOGS: ALTERATION (1 Weak, 2 Moderate, 3 Strong)	TOTAL SULFIDES (vol %)	ROCK CODE	ORE CODE	DOWN HOLE LOCATION: DISTANCE DOWN HOLE (feet)	ELEVATION	GEOLOGIC NOTES: ROCK TYPE	DESCRIPTION: MINERALOGY, ALTERATION, TEXTURES, GRAIN SIZE, FRAGMENT SIZE	MINERALIZATION: DISTRIBUTION (Massive, Disseminated, Veinfill, Replacement)	TYPE	ASSAY Au	ASSAY Ag
			10	1	875-880		PC					
					895-900							
								(915-920) tr-2% Ttp oxidized				
					920-925							
					945-950							
								(950-965) 3-5% Ttp oxidized.				
					970-975							
									985-1000 MIXED 2-4 oxidized tr-1% KS, [illegible]			
					995-1000			<clay-green/gray>				
							TD @ 1000'	H_2O ~ 20 gpm				

DRILL CUTTING LOG

Logged by: _____