Contractor LANG | Coordinates 126 | Project GILT EDGE | Hole No. R88-450

Drill Type | Casing Depth | State SD. | Sheet 1 of 7

Hole Size | Bearing — | Inclination 90° | Date Started 9. | Property GILT EDGE

Collar Elev. | Final Depth 1125' | Date Completed 9-15-88 | Hole Surveyed NO - LOST.

DRILL CUTTING LOG

Logged by:

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	ROCK TYPE	GEOLOGIC NOTES: DESCRIPTION (MINERALOGY, ALTERATION, TEXTURES, GRAIN SIZE, FRAGMENT SIZE)	MINERALIZATION: DISTRIBUTION (Massive, Disseminated, Veinlill, Replacement) / TYPE	ASSAY Au	ASSAY Ag
			60	3	0-5		TEP	0-420 TRACHYTE PORPHYRY	0-50 OXIDE 2-3% jarosite, 1-2% FeOx		
					20-25						
				1	45-50				50-75 SULFIDE 2-4% FeS_2		
					70-75						
				2					75-80 MIXED 1-2% jarosite, tr FeOx, 1-2% FeS_2		
				1					80-900 SULFIDE 2-3% FeS_2		
					95-100						
									(105-145) 5-7% FeS_2		
					120-125						
					145-150				(145-155) 9-10% FeS_2		
									(155-320) 4-6% FeS_2		
					170-175						

Contractor _____ Coordinates _____ Project _____ Hole No. RB8-450

Drill Type _____ Casing Depth _____ State _____ Sheet 2 of 7

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, Veinlill, Replacement)	TYPE	ASSAY: Au	ASSAY: Ag
			60		175-180		Txp	(175-265) 5-10% green-yellow clay alteration				
					195-200							
					220-225							
					245-250							
					270-275			(265-295) 70-75% chips green-yellow clay alteration				
					295-300			(295-300) 2-4% green-yellow clay alteration.				
					320-325			(320-335) 15-20% Tgtp	(320-380) 3-5% FeS_2			
					345-350							

DRILL CUTTING LOG

Logged by: _____

Contractor _____ Coordinates _____ Project _____ Hole No. R88-450

Drill Type _____ Casing Depth _____ State _____ Sheet 3 of 7

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, Veintill, Replacement / TYPE	ASSAY Au	ASSAY Ag
			60	1	350-355		Tkp				
									360-420 FRACTURED		
					370-375						
									(380-400) 5-7% FeS_2 loose.		
								(390-420) 15-25% PC schist.			
					395-400			<390-400> arsenopyrite?			
									(400-430) 2-3% FeS_2		
			10		420-425		PC	420-430 PRECAMBRIAN SCHIST			
			60				Tkp	430-495 TRACHYTE PORPHYRY	(430-440) 5-7% FeS_2 loose		
								(430-440) 5-15% PC schist			
								(440-495) 20-30% PC schist	(440-700) 1-3% FeS_2 dis		
					445-450			- trachyte w/ 5-10% chips w/			
								extensive yellow-green alt.			
					470-475						
			10		495-500		PC	495-530 PRECAMBRIAN SCHIST			
					520-525						

DRILL CUTTING LOG

Logged by:

Contractor _____ Coordinates _____ Project _____ Hole No. P88-450

Drill Type _____ Casing Depth _____ State _____ Sheet 4 of 7

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, Veinlill, Replacement)	TYPE	ASSAY Au	ASSAY Ag
			10	1	525-530		PC					
			60				Ttp	530 – 590 TRACHYTE PORPHYRY				
								(530 - 555) 5-10% PC schist				
					545-550							
								<fluorite>				
					570-575			(570 – 590) 3-5% PC schist	570-575 FRACTURED			
			80				Ttp	590 – 720 QUARTZ TRACHYTE PORPHYRY				
					595-600			<fluorite>				
								<fluorite>				
					620-625							
					645-650							
								(650 – 660) 30-40% Ttp				
								(665 – 685) 5-7% Ttp				
					670-675			<fluorite>				
								<fluorite>				
					695-700			<fluorite>				

DRILL CUTTING LOG

Logged by:

Contractor _____ Coordinates _____ Project _____ Hole No. R88-450

Drill Type _____ Casing Depth _____ State _____ Sheet 5 of 7

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	ROCK TYPE	GEOLOGIC NOTES: DESCRIPTION (MINERALOGY, ALTERATION, TEXTURES, GRAIN SIZE, FRAGMENT SIZE)	MINERALIZATION: DISTRIBUTION (Massive, Disseminated, Veinlill, Replacement) / TYPE	ASSAY Au	ASSAY Ag
			80		700-705		Tgtp	(700 – 720) 5-10% Ttp w/ yellow green alt. of matrix	(700 – 765) 4-6% FeS2 diss, fracs		
			60		720-725		Ttp	720 – 855 TRACHYTE PORPHYRY w/ 3-5% matrix alt. to yellow green clay			
					745-750			<fluorite>			
					770-775				765 – 770 FRACTURED (765 – 825) 2-4% FeS2 diss, fracs		
					795-800						
								<fluorite>			
					820-825				(825 – 840) tr-2% FeS2 diss		
									(840 – 895) 2-4% FeS2 diss, fracs		
					845-850						
			80				Tgtp	855 – 890 QUARTZ TRACHYTE PORPHYRY	860 – 885 FRACTURED		
					870-875						

DRILL CUTTING LOG

Logged by: _____

Contractor _____ Coordinates _____ Project _____ Hole No. R88-450

Drill Type _____ Casing Depth _____ State _____ Sheet 6 of 7

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
			80	1	875-880		Tqtp				
								(880 - 890) 3-5% PC schist			
			60				Ttp	890 - 915 TRACHYTE PORPHYRY			
					895-900				(895-900) 4-6% FeS_2 diss loose		
				2					900-915 MIXED 1-2% FeS_2		
									tr jarosite, 1-2% FeOx,		
									tr MnOX		
			80	1			Tqtp	915 - 1030 QUARTZ TRACHYTE	915 - 1125 SULFIDE 1-3% FeS_2		
					920-925						
								(925-935) 30-35% PC schist			
								(935-950) 5-7% PC schist			
					945-950						
					970-975						
								(	(980-1000) tr-1% OXIDE		
									1-2% FeS_2 diss		
					995-1000						
									(1000 - 1045) 1-3% FeS_2		
					1020-1025						
			60				Ttp	1030 - 1125 TRACHYTE PORPHYRY.			
								w/ 10-20% Tqtp			
					1045-1050				(1045 - 1055) 3-4% FeS_2		

DRILL CUTTING LOG

Logged by:

Contractor _____ Coordinates _____ Project _____ Hole No. RBB-450

Drill Type _____ Casing Depth _____ State _____ Sheet 7 of 7

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, Veinlill, Replacement) / TYPE	ASSAY: Au	ASSAY: Ag
			60	1	1050-1055		Trp				
									(1055-1125) 1-3% FeS_2 disp		
					1070-1075						
					1095-1100						
					1120-1125						
								TD @ 1125'			

DRILL CUTTING LOG

Logged by: _____