

SURFACE DIAMOND DRILLHOLE : HP049

PROJECT IDEN : 5510
COLLAR NORTHING: 63856.60
DRILLED BY : LY-BPSTART DATE : 10 JAN 89
COLLAR EASTING : 79439.70
TOTAL LENGTH : 1125.20COMPLETION DATE :
COLLAR ELEVATION: 2638.10
CORE/HOLE SIZE :LOGGED BY: CJY
GRID AZIMUTH : 0.00

SURVEY FLAG	SURVEY POINT LOCATION	FORESIGHT	AZIMUTH (DEGREES)	VERTICAL ANGLE (DEGREES)	NORTHING	EASTING	ELEVATION
000	0.00		115.00	-71.00	63856.60	79439.70	2638.10
001	15.00		115.00	-71.75			
002	40.00		117.50	-71.75			
003	60.00		116.50	-71.50			
004	84.00		117.50	-72.00			
005	100.00		115.00	-72.00			
006	120.00		117.00	-71.50			
007	138.00		117.00	-72.00			
008	155.00		118.00	-71.50			
009	166.00		117.00	-72.00			
009	182.00		119.00	-72.00			
010	210.00		118.00	-72.00			
011	240.00		117.00	-72.00			
012	260.00		114.50	-71.75			
013	280.00		117.00	-71.75			
014	300.00		119.00	-72.00			
015	320.00		119.00	-72.00			
016	340.00		117.50	-71.00			
017	355.00		116.00	-70.75			
018	374.00		116.00	-70.75			
019	400.00		116.50	-70.00			
020	425.00		117.00	-70.00			
021	438.00		117.00	-69.75			
022	458.00		116.00	-69.00			
023	478.00		115.00	-68.50			
024	482.00		114.00	-68.00			
025	502.00		112.50	-67.75			
026	517.00		112.50	-66.50			
027	537.00		111.50	-63.50			
028	540.00		111.00	-63.00			
029	549.00		110.00	-61.00			
030	569.00		110.00	-58.50			
031	589.00		110.50	-56.50			
032	609.00		109.00	-53.00			
033	629.00		110.00	-54.00			
034	644.00		109.00	-53.00			
035	661.00		107.00	-51.00			
036	681.00		106.50	-49.50			

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 SURFACE DIAMOND DRILLHOLE : HP049 (CONTINUED)

SURVEY FLAG	SURVEY POINT LOCATION	FORESIGHT	AZIMUTH (DEGREES)	VERTICAL ANGLE (DEGREES)	NORTHING	EASTING	ELEVATION
037	701.00		106.50	-47.00			
038	722.00		106.00	-46.00			
039	741.00		107.00	-45.00			
040	763.00		107.00	-43.00			
041	786.00		109.00	-41.50			
042	808.00		111.00	-39.50			
043	828.00		107.50	-38.00			
044	856.00		109.00	-37.50			
045	876.00		109.00	-37.00			
046	896.00		106.50	-35.00			
047	919.00		106.00	-34.00			
048	943.00		106.00	-32.50			
049	973.00		105.00	-30.50			
050	1003.00		106.00	-28.50			
051	1036.00		107.50	-27.00			
052	1070.00		109.00	-25.25			
053	1125.00		109.50	-22.00			

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HOLE PURPOSE: To test for a southern plunge to gold mineralisation from HP042. Aimed at an RL of 2000m.
 HOLE SIZE: 0-1010 HQ, 1010-FOH HQ.
 HOLE CONDITION: All rods removed.

Interval From (m)	Interval To (m)	Sec. (m)	RQD (m)	Description	Unit
0.00	12.00			NO CORE.	
12.00	64.00			HANGING WALL: WEATHERED: limonitic.	CENTRAL VOLCANICS
64.00	75.60			PREDOMINANTLY FELSPAR-PHYRIC VOLCANICS: weak to moderately broken core.	CENTRAL VOLCANICS
75.60	93.90			PREDOMINANTLY MAFIC VOLCANICS. 84.00 - 85.70: 100% PREDOMINANTLY MAFIC VOLCANICS: limonitic, strongly foliated, very strongly broken core. 91.60 - 91.70: 100% PREDOMINANTLY MAFIC VOLCANICS: limonitic, very strongly broken core.	CENTRAL VOLCANICS
93.90	178.40			PREDOMINANTLY FELSPAR-PHYRIC VOLCANICS. 93.90 - 95.70: 100% PREDOMINANTLY FELSPAR-PHYRIC VOLCANICS: quartz chlorite vein/s. 98.30 - 99.90: 100% PREDOMINANTLY FELSPAR-PHYRIC VOLCANICS: calcite vein/s.	CENTRAL VOLCANICS

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042

	Interval From (m)	To (m)	Recd. (m)	RQD (m)	Description	Unit
R	173.40	286.20			MIXED FELSIC AND MAFIC VOLCANICS. HWM Predominates for much of the interval. 263.00 - 263.30: 100% PREDOMINANTLY FELSPAR-PHYRIC VOLCANICS: very strongly broken core, with minor pug zones. 282.90 - 283.10: 100% PREDOMINANTLY FELSPAR-PHYRIC VOLCANICS: very strongly broken core, with minor pug zones, 0.1% disseminations of pyrite.	CENTRAL VOLCANICS
	286.20	467.70			PREDOMINANTLY FELSPAR-PHYRIC VOLCANICS. 413.50 - 421.70: 100% PREDOMINANTLY MAFIC VOLCANICS: weak to moderately broken core, quartz carbonate vein/s.	CENTRAL VOLCANICS
	467.70	484.40			PREDOMINANTLY MAFIC VOLCANICS.	CENTRAL VOLCANICS
	484.40	584.40			PREDOMINANTLY FELSPAR-PHYRIC VOLCANICS.	CENTRAL VOLCANICS
	584.40	643.60			PREDOMINANTLY MAFIC VOLCANICS: calcareous, hematite vein/s: calcite vein/s. 634.30 - 643.60: 100% PREDOMINANTLY MAFIC VOLCANICS: veinlets of moderate to strong carbonate-hematite alteration. Extensive calcite-hematite veining.	CENTRAL VOLCANICS
R	634.80	636.90				
	643.60	658.30			MIXED FELSIC AND MAFIC VOLCANICS: strongly foliated, strongly broken core, with minor pug zones, foliation: 55.	CENTRAL VOLCANICS
	658.30	692.00			PREDOMINANTLY MAFIC VOLCANICS: veinlets of moderate to strong carbonate-hematite alteration. 670.10 - 670.90: 100% PREDOMINANTLY MAFIC VOLCANICS: layers/bands of hematite alteration, banding: 43.	CENTRAL VOLCANICS
	692.00	724.20			MIXED FELSIC AND MAFIC VOLCANICS.	CENTRAL VOLCANICS
	724.20	736.20			PREDOMINANTLY MAFIC VOLCANICS: calcite vein/s.	CENTRAL VOLCANICS
	736.20	786.90			MIXED FELSIC AND MAFIC VOLCANICS: veinlets of moderate to strong carbonate-hematite alteration. 747.20 - 748.80: 100% PREDOMINANTLY FELSPAR-PHYRIC VOLCANICS: strongly foliated, strongly broken core, with minor pug zones, foliation: 52. 751.10 - 751.50: 100% PREDOMINANTLY FELSPAR-PHYRIC VOLCANICS: moderate to strongly foliated, moderate to strongly broken core, with minor pug zones, foliation: 50. 754.70 - 756.70: 100% HANGING WALL: STRONGLY BROKEN: strongly	CENTRAL VOLCANICS

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 SURFACE DIAMOND DRILLHOLE : HP049 (CONTINUED)

043

	Interval	Rec.	RQD	Description	Unit
	From (m) To (m)	(m)	(m)		
R	758.40 769.40			foliated, very strongly broken core, with minor pug zones, foliation: 50. Cleavage shows distinct kinking. 758.40 - 769.40: 100% PREDOMINANTLY FELSPAR-PHYRIC VOLCANICS: strongly foliated, moderate to strongly broken core, with minor pug zones, foliation: 50. 772.50 - 786.00: 100% PREDOMINANTLY FELSPAR-PHYRIC VOLCANICS: strongly foliated, weak to moderately broken core, along foliation, foliation: 47.	
	786.90 851.90			PREDOMINANTLY FELSPAR-PHYRIC VOLCANICS: pink-green, lower contact: 60.	CENTRAL VOLCANICS
	851.90 859.70			MIXED FELSIC AND MAFIC VOLCANICS.	CENTRAL VOLCANICS
	859.70 870.80			PREDOMINANTLY MAFIC VOLCANICS: dark green, lower contact: 60, foliation: 60.	CENTRAL VOLCANICS
	870.80 874.90			PREDOMINANTLY FELSPAR-PHYRIC VOLCANICS.	CENTRAL VOLCANICS
	874.90 899.40			HANGING WALL: STRONGLY BROKEN: moderate to strongly broken core, foliation: 60, lower contact: 70.	CENTRAL VOLCANICS
	899.40 920.20			MYLONITE AND PUG: green-white, foliation: 61, lower contact: 21.	HENTY FAULT ZONE
R	899.40 899.41			Sharp contact to mylonite with minor pug.	
R	899.40 920.20			Fault zone all mylonite-strongly kinked dominant foliation as above.	
	920.20 943.70			LAVAS AND VOLCANICLASTICS: quartz phyrlic, very strongly foliated, strong sericite alteration, foliation: 60.	TYNDALL VOLCANICS
R	920.20 920.21			Very sharp lower contact different angle to foliation. 928.00 - 930.50: 100% LAVAS AND VOLCANICLASTICS: strong silica alteration, lower contact: 35.	
	943.70 947.20			LAVAS AND VOLCANICLASTICS: very strongly foliated, strongly broken core, with minor pug zones, weak silica-sericite-pyrite alteration.	TYNDALL VOLCANICS
R	943.70 947.20			Puggy fault contacts top and bottom.	
	947.20 951.10			QUARTZ-SULPHIDE MINERALISATION: strongly broken core, with minor pug zones, strong quartz-sericite alteration, patches of quartz mineralisation, lower contact: 58.	

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SURFACE DIAMOND DRILLHOLE : HP049 (CONTINUED)

	Interval		Rec.	RQD	Description	Unit	
	From (m)	To (m)	(m)	(m)			
	951.10	957.20			LAVAS AND VOLCANICLASTICS: quartz phyric, strong silica-sericite alteration, patches of moderate silica-sericite-pyrite alteration.	TYNDALL VOLCANICS	
	957.20	988.60			MAFIC /INTERMEDIATE VOLCANIC: strong carbonate-chlorite alteration, foliation: 54, lower contact: 43.	TYNDALL VOLCANICS	
R	962.50	966.00			Siliceous fragments with quartz phenocrysts in chlorite-carbonate rock. Increasing % of siliceous fragments.		
R	962.50	966.00					
R	988.10	988.60					
	988.60	1025.40			FINE-GRAINED VOLCANICLASTICS: foliation: 55.	TYNDALL VOLCANICS	
R	988.60	1025.40			Mixture of fine-grained volcaniclastics with minor coarse volcaniclastics and possible fine-grained epiclastics. 988.60 - 990.20: 100% FINE-GRAINED VOLCANICLASTICS: moderate silica alteration. 999.50 - 1000.20: 100% FINE-GRAINED VOLCANICLASTICS: moderate sericite-chlorite alteration, patches of moderate carbonate alteration. 1006.50 - 1008.20: 100% FINE-GRAINED VOLCANICLASTICS: strong silica alteration, quartz vein/s. 1012.80 - 1016.00: 100% FINE-GRAINED VOLCANICLASTICS: moderately broken core, with minor pug zones, patches of weak fuschite-sericite alteration +/-co3. 1017.90 - 1021.70: 100% FINE-GRAINED VOLCANICLASTICS: weakly broken core, with minor pug zones, strong fuschite-sericite alteration +/-co3. 1021.10 - 1021.40: PUG ZONE: lower contact: 42, upper contact: 42.		
R	988.60	1025.40					
R	988.60	1025.40					
	1025.40	1025.50				FAULT: BROKEN GROUND WITH PUG: fault: 45.	
	1025.50	1082.50				COARSE-GRAINED VOLCANICLASTICS.	TYNDALL VOLCANICS
R	1025.50	1082.50				Mixture of coarse-grained volcaniclastics and finer-grained units. 1025.50 - 1027.40: 100% COARSE-GRAINED VOLCANICLASTICS: moderate silica alteration. 1049.60 - 1060.60: 100% COARSE-GRAINED VOLCANICLASTICS: patches of moderate carbonate alteration. 1069.50 - 1078.60: 100% COARSE-GRAINED VOLCANICLASTICS: patches of strong silica alteration.	
R	1025.50	1082.50					
	1025.50	1082.50					
	1082.50	1094.50			QUARTZ PORPHYRY BRECCIA: quartz porphyry fragments, hematitic fragments.	TYNDALL VOLCANICS	
R	1082.50	1094.50			Gradual increase in amount and size of pink quartz-porphyry		

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 SURFACE DIAMOND DRILLHOLE : HP049 (CONTINUED)

	Interval		Rec.	RQD	Description	Unit
	From (m)	To (m)	(m)	(m)		
R	1082.50	1094.50			fragments.	
	1094.50	1105.80			QUARTZ PORPHYRY BRECCIA.	TYNDALL VOLCANICS
	1105.80	1125.20			QUARTZ PORPHYRY: mega quartz grains.	
R	1105.80	1125.20			Patches of finer-grained rock in the porphyry- possible	
R	1105.80	1125.20			included blocks, or rock consists of very large block-size	
R	1105.80	1125.20			fragments.	
					1105.80 - 1113.60: 100% QUARTZ PORPHYRY: very strong silica	
					alteration.	