

ARN PROPERTY

	Grid East	Grid North	Easting	Northing	Elev. (m)	Depth (m)
ZONE: _____			512280	6871874	1851	92.41

SECTION: _____

HOLE: ARN-10-01 _____

CLAIM: YC25989 _____

Contractor: Top Rank Drilling _____

Drill: JKS 300 _____

Core size: BTW _____

Casing depth: 0.70 _____ (m) in / out

Drilling dates: _____

Geology logged by: Oliver Fu _____

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
collar	50	-45	compass				

TARGET: Zone Q soil anomalies and strong VTEM responses

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	0.70	0.70	OVb	Overburden
0.70	11.26	10.56	HRN	Hornfels?
11.26	60.77	49.51	BAS	Altered basalt with cross-cutting porphyritic andesitic and felsic dykes
60.77	72.40	11.63	BAS	Basalt
72.40	78.55	6.15	BAS	Altered basalt
78.55	80.00	1.45	AND	Andesitic dyke
80.00	82.00	2.00	BAS	Fault - basalt
82.00	87.00	5.00	BAS	Basalt
87.00	90.50	3.50	AND	Andesitic dyke
90.50	92.41	1.91	FEL	Felsic dyke
EOH				

SAMPLES
Numbers: G0558651 to G0558685
Total: 35
Batch: 1
Date Sent: _____
Certificate: WH10091230

COMMENTS

GEOLOGY LOG

HOLE: ARN-10-01

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION						MINERALS						Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Chlorite	Epidote	"Brown "	Oxidation	Other		Pyrite	Chalcopyrite	Magnetite	Other		Other			
																	Type	Intensity				Type	Intensity	Type			Intensity
0.00	0.70	0.70				OVB																				No recovery	
							GY to DK-GY	AN									w			t-w						Hornfels (HFL)? Dark grey to grey, aphanitic with anhedral to subhedral felsic (15%) and mafic (25-35%) phenocrysts (1-11mm). Crystals do not show a preferred orientation. Diffuse contact with felsic dyke.	
							WH to LT-GN		DY																	Felsic dyke. Plagioclase-rich with 3% mafics. Weakly fractured.	
							DK GY with BN blotches	AN																		Altered Basalt (BAS). Mottled brown alteration that appears mainly blotchy and brecciated in some areas. Chlorite alteration and weak oxidation are common along fractured surfaces. Chlorite-filled amygdules are scattered throughout. Bleaching envelopes form along small fractures. Sulphides are common along fractures.	
11.26	60.77	49.51				BAS							f	w-m	m-i	w			t		m-s	Po	w			Deformed porphyritic dyke with angular to subrounded plagioclase crystals (1-3 mm).	
			46.17	47.48	1.31			PO	DY																	Porphyritic andesite. Feldspar phenocrysts are 1-2 mm in size. Bornite occurs along fractures.	
			29.00	30.45	1.45	AND	LT GY-GN	PO					f			w						Bo	w			Fault. Rubby section.	
			33.60	34.50	0.90				FLT																		
			39.00	39.32	0.32	AND	LT GY-GN	PO					f													Porphyritic andesite.	
			40.43	40.58	0.15		GN-WH						f	s					w							Epidote-rich felsic dyke with altered brown patches.	
			48.04	48.77	0.73		WH-GN						m	m	f				f		m-s					Felsic porphyritic dyke. Plagioclase phenocrysts are 1-2 mm. Moderately magnetic. Mafic crystals are 1-10 mm and subangular. Pyrite is disseminated.	
			49.17	53.80	4.63			PO																		Chlorite-filled amygdules are common throughout and 1-6 mm in size. Irregular shapes. Sharp lower contact.	
			57.63	60.77	3.14								m	f		m			m		f						

GEOLOGY LOG

INTERVAL			SUB-INTERVAL			LITHOLOGY			STRUCTURE				ALTERATION				MINERALS						Photo	DETAILED DESCRIPTION			
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Modifier	Texture	Type	Attitude (tca)	Attitude (tfa)	Density (frequency/m)	Chlorite	Epidote	"Brown"	Oxidation	Other		Pyrite	Chalcopyrite	Magnetite	Other			Other		
																	Type	Intensity				Type			Intensity	Type	Intensity
60.77	78.55	17.78					DK GY	AN						f			m			w						Aphanitic basalt. Mafics are fine grained. White quartz veins are 1-3 mm and generally cut the BAS at 55° TCA. Bleaching typically occurs along fractures. Pyrite and chlorite are common along fractures.	
			64.13	74.00	9.87			PO					f		m-s	f			t-w		w					Blotchy brown brecciated alteration	
							DK GY	PO	DY																	Porphyritic andesitic dyke with deformed plagioclase phenocrysts. Phenocrysts are subangular to subrounded and 1-4 mm wide.	
							DK GY																			Mafic-rich felsic dyke.	
							DK GY	PO																		Porphyritic andesitic dyke.	
							DK GY																			Altered basalt. Alteration envelopes are light grey and resemble weak stockwork. Brown mottled patches commonly occur alongside envelopes.	
							DK GY																				
78.55	80.00	1.45					DK GY		DY																	Slightly porphyritic andesitic dyke.	
80.00	82.00	2.00				BAS							m	m		s										Fault. Most of the section is rubbly and broken up. Highly oxidized and fractured. Cross-cutting carbonate veinlets are common and between 1-3 mm wide.	
82.00	87.00	5.00				BAS		AN					s	w	m-s	m			w		w					Altered basalt. Mottled brown alteration. Increase metasomatic alteration. Chlorite is abundant and quartz veinlets and stringers are common throughout.	
87.00	90.50	3.50							DY				m	w		m-s										Slightly porphyritic andesitic dyke with quartz veinlets and stringers.	
90.50 EOH	92.41	1.91							DY				m	w		s			t-w							Coarse grained mafic-rich felsic dyke. Hornblende and plagioclase phenocrysts are euhedral and subrounded. Alteration increases towards the end of the hole.	