

WEST SEDGWICK PROSPECT

DIAMOND DRILLHOLE : WS007

PROJECT IDEN : WEST SEDGW START DATE : 8 FEB 93 COMPLETION DATE : 10 MAR 93 LOGGED BY: SCOTT HALLEY
 COLLAR NORTHING: 346120.00 COLLAR EASTING : 381305.00 COLLAR ELEVATION: 486.00 GRID AZIMUTH : 0.00
 DRILLED BY : DDT TOTAL LENGTH : 499.20 CORE/HOLE SIZE : HQNQ

SURVEY FLAG	SURVEY POINT LOCATION	FORESIGHT	AZIMUTH (DEGREES)	VERTICAL ANGLE (DEGREES)	NORTHING	EASTING	ELEVATION
000	0.00		87.00	-58.00	346120.00	381305.00	486.00
001	43.00		86.00	-58.00			
002	73.00		84.50	-56.50			
003	109.00		86.00	-55.00			
004	139.00		84.50	-55.00			
005	169.00		83.50	-54.70			
006	199.00		83.00	-54.00			
007	229.00		80.00	-53.20			
008	259.00		79.00	-52.60			
009	289.00		78.00	-52.00			
010	316.00		78.50	-51.50			
011	346.00		79.00	-49.00			
012	376.00		79.00	-44.20			
013	406.00		79.50	-41.70			
014	439.00		77.50	-41.00			
015	469.00		78.00	-40.00			
016	499.00		77.50	-39.00			

	Interval From (m)	To (m)	Description	Unit
R	0.00	3.00	NO CORE (PRECOLLAR). TRICONE	
	3.00	18.90	SCHISTOSE FELDSPAR PHYRIC X-TAL RICH FELSIC VOLCANICLASTIC; orange. STRUCTURE: cleavage/foliation: 55 degrees dip long core axis. TEXTURE: strongly foliated. ALTERATION: strongly weathered.	CAMBRIAN CENTRAL VOLCANIC COMPLEX
R	3.00	103.00	CORE SIZE: HQ	
	18.90	27.30	FELDSPAR PHYRIC SANDY FELSIC VOLCANICLASTIC: light grey. TEXTURE: strongly foliated.	CAMBRIAN CENTRAL VOLCANIC COMPLEX
	27.30	35.00	FELDSPAR PHYRIC SANDY FELSIC VOLCANICLASTIC: pale grey. STRUCTURE: strongly broken core and limonitic. MINERALOGY: 5% veins of quartz. 29.00 - 29.90 100% SILTSTONE: lighter grey.	CAMBRIAN CENTRAL VOLCANIC COMPLEX

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DIAMOND DRILLHOLE : WS007 (CONTINUED)

	Interval		Description	Unit
	From (m)	To (m)		
	35.00	56.05	SANDY FELSIC EPICLASTIC: light grey.	CAMBRIAN CENTRAL VOLCANIC COMPLEX
R	35.00	56.05	This is a felsic epiclastic unit, mostly massive but with some	
R	35.00	56.05	bedded silty bands.	
			38.00 - 39.00 100% SILTSTONE: medium grey.	
			STRUCTURE: strongly broken core.	
			41.90 - 42.60 100% SILTSTONE: medium grey.	
			STRUCTURE: moderately broken core.	
			44.20 - 44.90 100% SILTY FELSIC EPICLASTIC: pale pink.	
			STRUCTURE: bedding: 35 degrees dip long core axis,	
			cleavage/foliation: 35 degrees dip long core axis.	
			45.50 - 52.00 100% SANDY FELSIC EPICLASTIC.	
			STRUCTURE: moderately broken core.	
			54.80 - 54.90 100% SILTY FELSIC EPICLASTIC.	
			STRUCTURE: bedding: 40 degrees dip long core axis, basal conyacy	
			is conformable.	
			MINERALOGY: 10% layers/bands of pyrite.	
	56.05	57.80	BASALTIC LAVA: dark green.	
			STRUCTURE: strongly broken core.	
			TEXTURE: amygdaloidal.	
R	56.05	57.80	Fine grained mafic rock with irregular grey cherty bands and	
R	56.05	57.80	5mm sperical structures filled with chlorite and silica.	
	57.80	70.10	FELDSPAR PHYRIC CRYSTAL-RICH SANDY FELSIC EPICLASTIC.	
			TEXTURE: moderately foliated, 50% coarse fraction, 1.0mm to 4.0mm	
			coarsest fraction.	
			63.10 - 63.95 60% VEIN.	
			MINERALOGY: 50% veins of quartz, 10% veins of carbonate, 1% veins	
			of chlorite.	
R	63.95	70.10	Finer grained parts of this unit are well bedded.	
			63.95 - 70.10 100% SANDY FELSIC EPICLASTIC.	
			STRUCTURE: bedding: 35 degrees dip long core axis.	
			ALTERATION: weakly sericitic.	
			MINERALOGY: 1% disseminations & scattered crystals of pyrite.	
			65.60 - 66.00 100% SANDY FELSIC EPICLASTIC.	
			STRUCTURE: strongly broken core.	
R	70.10	156.50	Fine-grained mafic volcanic with sperical siliceous balls from	
R	70.10	156.50	amygdules and 1 to 5cm irregular bands of dark grey chert. This	
R	70.10	156.50	chert.	
	70.10	156.50	BASALTIC LAVA: dark green.	
			STRUCTURE: cleavage/foliation: 35 degrees dip long core axis.	
			TEXTURE: amygdaloidal, moderately foliated.	

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	Interval From (m)	To (m)	Description	Unit
			ALTERATION: strongly pyritic. 3mm to 10mm, quite crowded in places, interpreted to be	
R	70.10	156.50	is interpreted to be a pillow lava sequence with inter-pillow	
R	70.10	156.50	70.10 - 75.60 100% BASALTIC LAVA. ALTERATION: weakly sericitic, weakly chloritic. MINERALOGY: pervasive carbonate, 10% pervasive pyrite.	
			75.00 - 75.35 100% BASALTIC LAVA. MINERALOGY: 5% pervasive carbonate, 10% stringers of sericite, 50% layers/bands of pyrite.	
			84.10 - 86.10 100% BASALTIC LAVA: pale green. ALTERATION: strongly siliceous. MINERALOGY: 1% veins of carbonate, 1% veins of pyrite.	
			85.40 - 88.00 100% BASALTIC LAVA. STRUCTURE: strongly broken core.	
			87.00 - 88.40 100% SANDY SILTSTONE. STRUCTURE: bedding; 45 degrees dip long core axis.	
			88.40 - 88.70 100% BASALTIC LAVA: pale green. ALTERATION: strongly siliceous. MINERALOGY: 2.5% disseminations & scattered crystals of pyrite.	
			88.70 - 89.50 100% BASALTIC LAVA: brown green. ALTERATION: strongly sericitic, moderately chloritic. MINERALOGY: 5% pervasive carbonate, 10% stringers of sericite, 30% layers/bands of pyrite.	
			101.00 - 101.40 100% FAULT. STRUCTURE: very strongly broken core with prominent pug zones.	
			102.10 - 103.60 100% BASALTIC LAVA: brown green. ALTERATION: strongly siliceous, strongly pyritic. MINERALOGY: 5% pervasive carbonate, 5% stringers of sericite, 40% layers/bands of pyrite.	
R	103.00	499.20	CORE SIZE: NO 104.10 - 105.10 100% BASALTIC LAVA: pale green. ALTERATION: strongly siliceous. MINERALOGY: 2.5% stringers of pyrite.	
R	105.90	115.30	Amygdaloidal basalt with a fine grained dark green matrix and	
R	105.90	115.30	about 5% bright pink siliceous amygdules averaging 5mm	
R	105.90	115.30	diameter. There is also around 10% prominent dark grey	
R	105.90	115.30	irregular chert bands some of them with abundant finely	
R	105.90	115.30	disseminated pyrite. Pyrite occurs through the rock in coarse	
R	105.90	115.30	grained bands. 105.90 - 115.30 100% BASALTIC LAVA: very dark green. TEXTURE: amygdaloidal. MINERALOGY: 2.5% layers/bands of pyrite.	
			112.90 - 117.00 100% BASALTIC LAVA. STRUCTURE: strongly broken core.	

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Interval From (m) To (m)	Description	Unit
	118.00 - 118.80 100% BASALTIC LAVA: pale green. ALTERATION: strongly siliceous.	
	121.20 - 121.40 100% BASALTIC LAVA: brown green. ALTERATION: strongly pyritic, strongly siliceous. MINERALOGY: 10% layers/bands of carbonate, 30% layers/bands of pyrite.	
	125.30 - 126.60 100% BASALTIC LAVA: pale green. ALTERATION: strongly siliceous. MINERALOGY: 2.5% stockwork of carbonate.	
	128.50 - 130.50 100% BASALTIC LAVA: pale green. ALTERATION: strongly siliceous. MINERALOGY: 5% veins of quartz, 2.5% stockwork of carbonate, 2.5% disseminations & scattered crystals of pyrite.	
	130.50 - 131.00 100% BASALTIC LAVA. ALTERATION: strongly pyritic. MINERALOGY: 10% stringers of sericite, 20% layers/bands of pyrite.	
	131.60 - 132.30 100% BASALTIC LAVA: pale grey. ALTERATION: strongly siliceous. MINERALOGY: 5% veins of quartz.	
	132.70 - 134.40 100% BASALTIC LAVA: brown green. ALTERATION: strongly pyritic. MINERALOGY: 5% layers/bands of pyrite.	
	134.40 - 136.10 100% BASALTIC LAVA: pale grey. ALTERATION: strongly siliceous. MINERALOGY: 1% veins of pyrite.	
	138.00 - 140.90 100% BASALTIC LAVA: pale grey. ALTERATION: strongly siliceous. MINERALOGY: 2.5% stockwork of carbonate, 1% layers/bands of pyrite.	
	143.50 - 146.30 100% BASALTIC LAVA: light grey. ALTERATION: strongly siliceous. MINERALOGY: 5% veins of quartz, 1% veins of carbonate.	
	146.30 - 149.80 100% BASALTIC LAVA. STRUCTURE: strongly broken core with minor pug zones.	
	149.30 - 152.60 100% BASALTIC LAVA: brown green. STRUCTURE: cleavage/foliation: 35 degrees dip long core axis. ALTERATION: moderately sericitic. MINERALOGY: 10% layers/bands of pyrite.	
	154.00 - 156.50 100% BASALTIC LAVA: brown green. ALTERATION: moderately sericitic, weakly siliceous. MINERALOGY: 5% layers/bands of pyrite.	
156.50	289.00	ANDESITIC LAVA: dark green.

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DIAMOND DRILLHOLE : WS007 (CONTINUED)

	Interval	Description	Unit
	From (m) To (m)		
		STRUCTURE: basal contact is faulted.	
		TEXTURE: strongly foliated, lineated.	
		ALTERATION: moderately chloritic, weakly sericitic.	
R	156.50 289.00	This is a massive andesite unit with pervasive chlorite -	
R	156.50 289.00	sericite - silica alteration. It is strongly cleaved and the	
R	156.50 289.00	intensity of the cleavage increases progressively down-hole.	
R	156.50 289.00	The rock also develops a very strong vertical lineation towards	
R	156.50 289.00	the end of the interval. This unit is ended by a fault at a low	
R	156.50 289.00	angle to the core axis. The rock becomes increasingly strained	
R	156.50 289.00	approaching the fault, with numerous puggy breaks from 279m	
R	156.50 289.00	onwards.	
	168.70 - 169.10	100% STRUCTURAL MEASUREMENT.	
		STRUCTURE: cleavage/foliation: 88 degrees dip 232 dip direction.	
	193.50 - 193.80	100% STRUCTURAL MEASUREMENT.	
		STRUCTURE: cleavage/foliation: 78 degrees dip 227 dip direction.	
	198.40 - 200.70	100% ANDESITIC LAVA.	
		ALTERATION: moderately chloritic, weakly sericitic.	
		MINERALOGY: 1% veins of carbonate, 1% disseminations & scattered	
		crystals of pyrite.	
	207.00 - 212.60	100% ANDESITIC LAVA: dark green.	
		ALTERATION: moderately chloritic, weakly sericitic.	
		MINERALOGY: 2.5% layers/bands of pyrite.	
	212.60 - 217.50	100% ANDESITIC LAVA: light green.	
		ALTERATION: moderately chloritic, moderately sericitic.	
		MINERALOGY: 5% layers/bands of pyrite.	
	221.80 - 222.20	100% STRUCTURAL MEASUREMENT.	
		STRUCTURE: cleavage/foliation: 78 degrees dip 222 dip direction.	
	222.20 - 223.00	100% ANDESITIC LAVA.	
		ALTERATION: moderately chloritic, moderately sericitic.	
		MINERALOGY: 5% layers/bands of carbonate, 1% disseminations &	
		scattered crystals of pyrite.	
	236.60 - 236.90	100% STRUCTURAL MEASUREMENT.	
		STRUCTURE: cleavage/foliation: 89 degrees dip 073 dip direction.	
	246.00 - 289.00	100% ANDESITIC LAVA.	
		TEXTURE: very strongly foliated, lineated.	
		ALTERATION: moderately sericitic, weakly chloritic.	
	250.90 - 251.30	100% STRUCTURAL MEASUREMENT.	
		STRUCTURE: cleavage/foliation: 90 degrees dip 085 dip direction.	
	267.00 - 267.50	100% STRUCTURAL MEASUREMENT.	
		STRUCTURE: cleavage/foliation: 88 degrees dip 069 dip direction.	
	279.00 - 287.00	100% ANDESITIC LAVA.	
		STRUCTURE: moderately broken core with minor pug zones.	
	280.20 - 280.30	100% STRUCTURAL MEASUREMENT.	
		STRUCTURE: cleavage/foliation: 83 degrees dip 250 dip direction.	

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Interval From (m) To (m)	Description	Unit
	287.00 - 289.00 100% ANDESITIC LAVA. STRUCTURE: strongly broken core with prominent pug zones.	
289.00 289.80	FAULT. STRUCTURE: very strongly broken core with prominent pug zones, fault: 20 degrees dip long core axis.	
289.80 299.60	ANDESITIC LAVA: dark grey. STRUCTURE: weakly broken core. MINERALOGY: 2.5% veins of carbonate, 0.3% disseminations & scattered crystals of pyrite.	
299.60 303.10	BASALTIC LAVA: light grey. STRUCTURE: moderately broken core with minor pug zones. ALTERATION: strongly sericitic, moderately pyritic. MINERALOGY: 5% layers/bands of pyrite.	
303.10 303.90	POLYMICT COARSE ANDESITIC VOLCANICLASTIC. STRUCTURE: cleavage/foliation: 86 degrees dip 252 dip direction. TEXTURE: strongly foliated, lineated. ALTERATION: strongly sericitic, moderately pyritic. MINERALOGY: 5% lenses of pyrite.	
303.90 304.70	MEDIUM (SANDY) ANDESITIC VOLCANICLASTIC. STRUCTURE: cleavage/foliation: 87 degrees dip 078 dip direction, bedding: 87 degrees dip 078 dip direction. TEXTURE: bedded. ALTERATION: strongly pyritic, strongly siliceous. MINERALOGY: 40% layers/bands of pyrite.	
304.70 306.30	MEDIUM (SANDY) ANDESITIC VOLCANICLASTIC. ALTERATION: strongly siliceous. MINERALOGY: 1% disseminations & scattered crystals of pyrite.	
306.30 314.40	QTZ PHYRIC COARSE FELSIC VOLCANICLASTIC: medium grey. TEXTURE: strongly foliated. ALTERATION: strongly siliceous, moderately sericitic. MINERALOGY: stringers of sericite, 1% disseminations & scattered crystals of pyrite.	
R 306.30 314.40	Quartz-phyric unit with a coarse fragmental texture and strong silica - sericite - pyrite alteration.	
R 306.30 314.40	312.75 - 312.85 100% FAULT. STRUCTURE: strongly broken core with prominent pug zones, fault: 45 degrees dip long core axis.	

Interval From (m) To (m)	Description	Unit
314.40 - 317.00	QTZ PHYRIC BLOCKY FELSIC VOLCANICLASTIC. ALTERATION: strongly siliceous, strongly pyritic. MINERALOGY: 5% breccia fillings of pyrite.	
317.00 - 317.70	SANDY FELSIC VOLCANICLASTIC. ALTERATION: strongly sericitic. MINERALOGY: 5% layers/bands of pyrite.	
317.70 - 322.20	FELDSPAR PHYRIC LAVA: medium grey. ALTERATION: intensely siliceous, strongly pyritic. MINERALOGY: 10% veins of quartz, 5% stockwork of pyrite.	
322.20 - 342.20	MEDIUM (SANDY) ANDESITIC VOLCANICLASTIC: medium grey. STRUCTURE: moderately broken core. TEXTURE: moderately foliated. ALTERATION: moderately sericitic, weakly siliceous. MINERALOGY: 0.1% disseminations & scattered crystals of pyrite. 325.90 - 328.70 100% MEDIUM (SANDY) ANDESITIC VOLCANICLASTIC. STRUCTURE: strongly broken core with minor pug zones. 331.00 - 335.00 100% MEDIUM (SANDY) ANDESITIC VOLCANICLASTIC. STRUCTURE: strongly broken core with minor pug zones. 332.50 - 333.00 100% MEDIUM (SANDY) ANDESITIC VOLCANICLASTIC. STRUCTURE: very strongly broken core with prominent pug zones, 2-5mm fault: 00 degrees dip long core axis. 333.00 - 334.50 100% MEDIUM (SANDY) ANDESITIC VOLCANICLASTIC: light green. TEXTURE: strongly foliated, lineated. ALTERATION: strongly sericitic. 335.30 - 336.70 100% MEDIUM (SANDY) ANDESITIC VOLCANICLASTIC. STRUCTURE: strongly broken core. 339.20 - 339.80 100% MEDIUM (SANDY) ANDESITIC VOLCANICLASTIC. STRUCTURE: strongly broken core.	
342.20 - 348.70	MEDIUM (SANDY) ANDESITIC VOLCANICLASTIC: medium grey. ALTERATION: strongly pyritic, moderately siliceous. MINERALOGY: 2.5% veins of quartz, 2.5% veins of carbonate, 5% stockwork of pyrite.	
348.70 - 354.10	FELDSPAR PHYRIC SILTY SANDY CRYSTAL-RICH ANDESITIC EPICLASTIC: medium grey. TEXTURE: interbedded.	
354.10 - 363.00	SHALE: black.	

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DIAMOND DRILLHOLE : WS007 (CONTINUED)

	Interval From (m) To (m)	Description	Unit
		TEXTURE: well bedded, soft sediment slumping. 359.50 - 363.00 100% SHALE. STRUCTURE: strongly broken core bedding: 45 degrees dip long core axis.	
	363.00 364.40	FELDSPAR PHYRIC SANDY CRYSTAL-RICH ANDESITIC EPICLASTIC: light grey. ALTERATION: weakly sericitic.	
	364.40 376.10	SHALE: black. STRUCTURE: bedding: 45 degrees dip long core axis. TEXTURE: well bedded. 375.20 - 376.10 100% SHALE. STRUCTURE: strongly broken core with minor pug zones.	
	376.10 380.50	FELDSPAR PHYRIC WITH LITHIC FRAGMENTS SANDY CRYSTAL-RICH ANDESITIC EPICLASTIC. STRUCTURE: moderately broken core.	
	380.50 382.00	SHALE: black. STRUCTURE: strongly broken core with prominent pug zones.	
	382.00 499.20	FELDSPAR PHYRIC SANDY CRYSTAL-RICH ANDESITIC EPICLASTIC: light grey. TEXTURE: strongly foliated, lineated. ALTERATION: weakly sericitic.	
R	382.00 499.20	CRYSTAL-RICH FELDSPATHIC SANDSTONE INTERBEDDED WITH THIN BEDS	
R	382.00 499.20	OF BLACK SILTSTONE, STRONGLY CLEAVED AND STRONGLY LINEATED. 383.50 - 383.80 100% SANDY CRYSTAL-RICH ANDESITIC EPICLASTIC. ALTERATION: moderately sericitic. MINERALOGY: 5% layers/bands of pyrite. 388.00 - 388.40 100% STRUCTURAL MEASUREMENT. STRUCTURE: cleavage/foliation: 88 degrees dip 087 dip direction, lineation: 88 degrees dip 087 dip direction. 397.95 - 398.05 100% FAULT. STRUCTURE: strongly broken core with prominent pug zones. 400.30 - 400.45 100% SHALE: black. 406.30 - 406.60 100% SHALE: black. 417.40 - 417.50 100% SANDY CRYSTAL-RICH ANDESITIC EPICLASTIC. STRUCTURE: strongly broken core with minor pug zones. 421.50 - 421.60 100% STRUCTURAL MEASUREMENT. STRUCTURE: cleavage/foliation: 83 degrees dip 230 dip direction. 426.50 - 427.80 100% SANDY CRYSTAL-RICH ANDESITIC EPICLASTIC. STRUCTURE: strongly broken core.	

- Interval -
From (m) To (m)

Description

Unit

427.80 - 428.30 100% SHALE: black.
 441.10 - 443.60 80% SHALE: black.
 STRUCTURE: cleavage/foliation: 83 degrees dip 252 dip direction,
 bedding: 83 degrees dip 252 dip direction.
 443.60 - 444.30 100% SANDY CRYSTAL-RICH ANDESITIC EPICLASTIC.
 STRUCTURE: strongly broken core with minor pug zones.
 455.80 - 456.30 100% SHALE: black.
 463.10 - 464.70 100% SANDY CRYSTAL-RICH ANDESITIC EPICLASTIC.
 STRUCTURE: 5-20mm vein: 00 degrees dip long core axis.
 MINERALOGY: 20% veins of quartz, 10% veins of carbonate.
 472.80 - 473.30 100% STRUCTURAL MEASUREMENT.
 STRUCTURE: cleavage/foliation: 90 degrees dip 081 dip direction.
 483.70 - 484.30 100% SHALE: dark grey.
 STRUCTURE: bedding: 50 degrees dip long core axis.
 496.60 - 497.80 100% SANDY CRYSTAL-RICH ANDESITIC EPICLASTIC.
 STRUCTURE: strongly broken core with minor pug zones.

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