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METRES		% Recovery	Graphic Log	DESCRIPTION OF UNITS	% Mineralization	Sample no.	METRES			ASSAYS			
From	To						From	To	Length				
				shale, graphite locally 2% of rock, calcite veins average 5 mm in width, conformable to laminations. Pyrite present in calcite veins up to 3 mm in diameter; rock 25% calcareous and is more calcareous in upper part; towards base (43.4) laminations aren't conformable but are discontinuous.									
43.4	44.5	95		WISPY BLACK SHALE: discontinuous laminations - veins 43.4: Qtz carbonate 2 cm, 80° to core axis 43.9: Qtz carbonate 2 cm, 80° to core axis 44.0: Qtz carbonate 2 cm, 60° to core axis 44.2: Calcite vein contains black shale fragments 4 cm in width. 44.5: Qtz carbonate 1 cm, 80° to core axis. Other smaller carbonate veins at different angles. Pyrite generally veinlets 2 mm diameter (2% of rock). At 44.4 pyrite rich for 10 cm (7%). Some pyrite blebs as grains 1 mm in diam., pyrite generally associated with calcite veining. One pyrite bed 0.5 mm in diameter.		69395	44.0	47.0	3.0m				
44.5	45.7	95		GRAY GREEN SILTY SHALE: Laminations 44.8 m, 62° to core axis Veins: 44.8 - 2 cm wide carbonate. 45.1: bleb 6 cm in length contains fragments of country rock, 0° to core axis. 45.2: 2 cm wide carbonate, 29° to core axis 45.4: 4 cm x 2 cm in width patch, Qtz-carbonate - carbonate splotch 1 x 4 cm - lamination 45.6, 58° to core axis, graphite locally 5% of rock, shale 40%, siltstone 60%, pyrite - 2-3 cm wisps parallel to the laminations, blebs of pyrite 0.5 cm x 1.5 cm in dimension of pyrite. Patchy 45.4 to 45.7 m - laminations contacted 45.4-45.7 m									
45.7	46.0	95		BLACK SHALE: Lamination 60° to core axis; minor calcareous veinlets and patches generally parallel to the laminations. Graphite locally 5% of rock. Pyrite beds laminations parallel to the lamination 1 mm in width.	5% pyrite								
46.0	47.3	17		BROKEN CORE: Rubby pieces of shale and silty shale, locally some very graphitic pieces.		69396	47.0	50.0	3.0m				
47.3	48.2	95		GREEN TAN FELSIC TUFF: Gray green tan in colour - laminations 47.6 m 67° to core axis 47.9 m 8° to core axis - shale laminations 1% of rock 48.0-48.2: core broken, small pieces 47.4: Qtz-carbonate vein 1 cm, 35° to core axis 47.7-48.0: Qtz-carb veining and broken pieces. Pyrite generally in stringers less than 1 mm in width and parallel to lamination, 2% of rock. 47.9: pyrite bleb 2 x 3 cm - minor calcite veining throughout (<1%); purplish coloured patches on split surface, purple zones 10-20% of rock (biotite rich?). Pyrite in zones fine-grained and veinlets.	2% pyrite locally 5% py 5-10% py								

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48.2	49.9	81		GRAY TO DARK BLACK LAMINATED SHALE: Shale beds 10-15% of core. Broken from 48.8-49.6 (3-4 cm size). Laminations 84° to core axis places contacted. Pyrite laminations 1.0 mm in width, discontinuous, also euhedral and subhedral, disseminated average 0.5 mm diameter. 49.0: Quartz vein, irregular 49.7: Qtz vein 2 cm, 85° to core axis.	3% pyrite									
49.9	53.4	80		BLACK SHALE: Fine-grained, few gray siltstone beds 5-10% of shale. Lamination 32° to core axis. 50.2: Quartz carbonate vein 1 cm. 51.3: Quartz carbonate vein 4 mm. 52.5: Quartz carbonate vein 1 cm. Carbonate veinlets at 25° to core axis. Graphite locally 5% of rock but <1%. Pyrite remobilized?, euhedral, 1 mm in diameter, avg. 0.5 mm, in shale & siltstone. Pyrite in beds or laminations, not more than 2 mm in width, conformable to laminations. Rock not always continuous laminations, some planes crinkled and pyrite bands conform to this. Veins generally contain no pyrite.	4% pyrite	69397	50.0	53.0	3.0m					
53.4	55.0	100		LAMINATED SHALE & SILTSTONE: Pyrite beds locally 30% of core. Siltstone 15% of core beds 1 cm in width and contain euhedral to subhedral pyrite 6 mm in diameter, 1% of core. Pyrite laminations up to 8 mm in width conformable with laminations. Laminations 41° to core axis. Some places laminations faulted and became discontinuous. Calcite veins run 1°, trend 80° to core axis. Pyrite blebs are up to 2 cm & anhedral, almost rounded. 54.5: Qtz-carbonate vein 54.9: rock carbonate rich laminations 53.9 m 58° to core axis 55.0 m 1.5 cm Qtz-carb.	locally 30%	69398	53.0	56.0	3.0m					
55.0	56.4	65		BLACK SHALE & SILTSTONE: Siltstone beds 3 cm in width 55.6: Qtz-carb veining section broken and poor recovery. - black fine-grained rock locally graphitic 20% especially from 55.8-56.4. - vein 55.4 Qtz, carbonate - pyrite content - subhedral to anhedral blotches up to 1.5 cm in diameter, primarily fine grained disseminated. - yellow green clay rich part at 55.6 m, patch 4 x 6 cm - lamination 55.1 m, 74° to core axis. 10-15% calcareous rock.	2% pyrite locally 4%	69399	56.0	59.0	3.0m					
56.4	57.3	90		GRAY SILTY SHALE: Shaly appearance. Talc present. alteration mineral. Laminated 70° to core axis. 56.9: Veining 2 cm in width. Qtz-carbonate - pyrite content increased at 56.9 - pyrite cubes 1 mm diameter, suggest a diagenetic or replacement environment. Rock almost phyllitic, shiny and platy, 70% altered.	pyrite locally 2% 1% average									

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57.3	58.1	95		BLACK SHALE: At 57.6 m very soft, talc rich 60%. Laminated roughly 70° to core axis. Black shale beds up to 2 cm in width and 60% of rock. Veining common 57.4 m. quartz-carbonate. Contacted laminations farther towards 58.1 m. Pyrite locally rich (15%), avg. 1%.										
58.1	61.3	95		GRAY SILTY SHALE: Lamination 90° to core axis. Shale beds 1 mm diameter, avg. 10% of rock, locally discontinuous laminations. vein 58.7: 1.5 cm wide, quartz carb, 90° to core axis. 58.8: 1 cm, quartz carb., 90° to core axis 59.6: 1.0 cm wide, qtz carbonate 70° to core axis. - minor talc 5%. Pyrite, looks remobilized, stringers up to 3.0 cm in length, blebs up to 3.0 mm in diameter, fine-grained disseminated; higher percentage of pyrite coincides with black silty shale sections at 59.6 m. 58.1-61.3: predominantly silty shale but have a shale rich portion from 60.4-60.7 m. - laminations indistinct in some of the lighter sections. veins 59.6: 2 cm, quartz carb, 80° to core axis. 59.6: quartz carb. splotch 3 x 4 cm 59.8: 2-3 cm wide quartz carbonate 60.2-60.4: 4 cm wide 60.4: irregular splotches, 2 x 4 cm in diameter 60.8: 3 cm wide quartz carbonate 50° to core axis.		69400	59.0	63.1	4.1					
60.4	61.3	95		BLACK SHALE: Laminations 90° to core axis. Silty rich sections 10% of section. Pyrite arranged in a vein remobilized 2% pyrite euhedral, locally fine-grained disseminated pyrite. Silty shale, pyrite is euhedral >59.6 m. At 61.0 lamination 58° to core axis.	locally 1.5% py, avg. 1%									
61.3	61.9	95		GREEN FELSIC VOLCANIC OR TUFF: Contact with black shale fractured and broken. Vein 61.3 m quartz carbonate and at 61.7 m 72° to core axis. Chlorite rich?, tremalite. Few green blebs 68° to core axis at 61.7 m. Pyrite <1% fine-grained, one bleb 8 mm in diameter at 61.3m.										
61.9	63.1	100		GREEN GRAY SILTY SHALE: Silty portion pale green, 40% rock. Laminations 62.4 m, 90° to core axis, 62.8 m, 65° to core axis. Pyrite beds 1 mm in width, continuous, coarser pyrite but still along lamination, some blebs 0.5 x 1.2 cm. Locally 15% carbonate. Vein 62.6-62.5 m splotchy and blobs.	3% pyrite									
63.1	69.4	100		FELSIC TUFF: Pale green colour; upper contact 65° to core axis, sharp; fragments elongated, parallel to laminations. Talc rich reflect hydrothermal alteration?Fragments up to 7 cm in length, average 8 mm in diameter 10-15% of rock. Fragments range in colour from dark to light green, matrix supported. Pyrite generally fine-grained and disseminated from 63.2-63.4, pyrite flattened in lenses parallel to laminated veinlet 63.5 m. Sericite or talc rich probably 20% of rock planes - rock pulls apart in hand. Veining more	<1% pyrite	70501	63.1	66.0	2.9m					

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From	To				From		To	Length							
				prevalent close to contacts. Veins 63.3: Qtz carbonate 85° to core axis, 5 mm 63.3: Qtz carb. 88° to core axis, 5 mm 63.4: Qtz carb. 80° to core axis, 4 mm 64.0: Carb. lens 73° to core axis 4 mm 64.0: Qtz carb. 80° to core axis, 2 mm 64.2: Qtz carb. irregular 75° to core axis, 1-8 mm in width. 64.2: Qtz carb 90° to core axis 3mm 66.5: Qtz carb 77° to core axis 1.1 cm 69.3: Qtz carb 66° to core axis 8 mm Laminations: 64.2: 72° to core axis 63.5: 48° 64.5: 87° 65.0: 65° 65.5: 86° 66.7: 62° 67.5: 76° 68.6: 56° 69.0: 66° - from 64.8 to 64.9 very soft rock, sericite rich, 60% of rock, pyrite rare 65.5-65.9: fragments obixous, 20% of rock, avg. 5-10%											
69.4	70.4	100		LAMINATED GREEN SILTY SHALE: Contact tuff and shale 86° to core axis. Silty beds gray, black shale, Pyrite sub-hedral not always conformable to laminations, blebs up to 2 mm in diameter, masses to 1 cm, veinlets 2 cm in length, locally conformable to bedding. 70.2-70.4: no pyrite - rock carbonate rich 40-50% Laminations 69.4: 76° to core axis 69.6: 70° 69.9: 70° 70.4: 47° 70.2: 71° Vein 69.4: Qtz carbonate 2 cm 70.1: Qtz carbonate 2 x 5 cm 70.3: Qtz carbonate 74° to core axis.	2% py locally avg. py 1%	70502	66.0	69.4	3.4m						
						70503	69.4	70.4	2.0m						