

DRILL HOLE LOG

COORDINATES 5+84S - 115+86W
ELEVATION 4600 FT (1372M)
DIP 60°
AZIMUTH 032°AZ
SCALE

CORE SIZE NQ
HOLE STARTED MAY 6, 80
HOLE COMPLETED
LOGGED BY U. SCHMIOT

DEPTH	DESCRIPTION	DIP
0		
10	orange brown weathering along fractures.	
20	50-60° Z 220° py concretion	
20	70-80° 10-20° - steep joint is - py concretion quality.	
20	lenticular pyritic concretions.	
30	pyritic concretions 60 and 40° lenticular pyritic dolomite bed.	
30	orange brown weathering fracture.	
40	dark brown weathering of above	
40	med grey thinly laminated mudstone	
50	constant med grey thinly laminated limestone. minor py concretions	
50	cal fragments and graphitic gouge	
50	dark grey to black thinly laminated non-calcareous mudstone - minor pyritic laminae.	
60	med grey "chippy mudstone" with dark grey wispy bioturbated bands.	
60	graphite and white vein.	

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FOOTAGE	DESCRIPTION	DIP
60	<u>med to light grey "flaggy" mudstone" continued</u> with dark grey bioturbated bands non to weakly calcareous	
30	- Ca vein 2 pyrolutimen. & minor graphite - Ca vein 20°	
30	- med grey wispy beds in dark matrix	
70	- pyritic calcite concretions pyritic calcite concretions up to 50% of the rock	
30	90° to strike of bedding	
30	- dark band - pyritic calcite concretions	
80	- pyritic calcite concretions 5-20 mm diameter	
50	- dark grey matrix over 40 mm.	
30	90° to strike of bedding	
90	- 20 x 50 mm pyritic calcite concretion	
50	- 20 x 50 mm pyritic concretion pyritic concretions	
50	light grey chippy mudstone texture weakening	
100	- "feathery" concretionary calcite bed - pyrite concretions weakly to moderately calcareous except Ca concretions	
	quartz carbonate veins	
	- light grey yellow limestone & pyrolutimen & graphite - 10° graphitic	
110		
60	- black thinly laminated calcareous mudstone - feathery carbonate py concretions	
120	TRANSITIONAL OVER 6" concretion Howard Pass Fm "Upper Siliceous Mudstone Member" 10a5 black, graphitic, thinly laminated siliceous pyritic, weakly to moderately disseminated mudstone	

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FOOTAGE	DESCRIPTION	DIP
120	py laminar & concretions 1-2 mm 50, 90° to STRIKE "upper siliceous mudstone member" 10a5 middle unit? thin graphitic thinly laminated siliceous pyritic weakly to moderately laminated mudstone.	
130	Black and red grey banded cherty mudstone & grey calcareous bands.	
MISSING	cherty laminar mudstone & py. laminar.	
py.	dark grey to black thinly laminated carbonaceous siliceous mudstone & cherty med grey chert bands, discontinuous 2-10 mm THICKNESS	
140	30-40% chert bands pyritic laminar common intermittent calcite-pyritic bands. 5-30 mm THICKNESS - also dark grey coarsely crystalline calcite concretions	
140	folding	
140	3 limestone band	
150		
150	py hard 5mm ind	
160	fetid calcite concretions, folding associated & concretions. also chert and py	
160	70-80° laminar pyritic band 30mm ind	
160	py. 1 x 10-20° to core 90° to strike of bedding.	
170		
50	fold pyritic at upper contact	
50	med grey siliceous fetid carbonate concretions	
170	intermittent laminar bands	
170	banded limestone for 6" 160°	
180	calcareous	

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FOOTAGE

DESCRIPTION

DIP

180	•	Upper siliceous mudstone member	
	•	graphitic and siliceous mudstone & chert and limy beds	
160	•	Thinly laminated med grey limestone	
155	•	grey crystalline concretion	
150	•	UP Sil mudstone continued & chert and limy bands	
30	•	← JOINT 90° TO STRIKE OF BEDDING	
190	•	Thinly laminated carbonaceous mudstone	
180	•	minor pyritic laminae	
160	•	dark grey & med grey chert bands and intermittent limy bands often deformed, bands are 2-10 mm thick	
140	•	intermittent calcite filled fracture, pyritic calcite concretion and coarsely crystalline Ls concretions 1-2' diam.	
120	•	thinly laminated graphitic mudstone to med calcareous mudstone	
100	•	weakly to moderately limy throughout	
200	•	? Facies 4 of ACTIVE MEMBER (thin bedded calcareous mudstone & siltstone) in appearance	
180	•	trace pyrite, possible other sulphides	
155	•	Py calcite concretion	
150	•	Py & calcite concretion	
130	•	Ca vein 30 mm also smaller Ca vein 11 and crosscutting	
120	•		
100	•		
170	•	Py Ca concretion	
220	•	grey bands rimmed by py	
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FOOTAGE		DESCRIPTION	DIP
240		Canoin med light grey silty ls concretion calit concretion joint 90 to t	
250		Upper Silurian mudstone - ls. continued dark to med grey laminated silty banded silty mudstone - med weak limestones mudstone med light grey laminated and silty banded cherty mudstone, light calcareous above, more siliceous, less carbon available to non-calcareous, hairline calite filled fractures common.	
260		stylolites and 1 to t calite filled fractures common - core axis	
270		grey ls black to light grey massive thinly laminated siliceous mudstone grading to light grey limestone and back to mudstone	
280		Canoin Canoin dark to med grey thinly laminated banded siliceous cherty mudstone continued carbonaceous, weakly to non calcareous except for calcareous bands and secondary Canoin - secondary calite in fractures and bedding common 1-10mm wide - Fy calite concretion	
290		Ca oft vein 10° 15mm wide deformed bedding - explosive slump deformation? "core axis" 20° 90° to t	
300		GRAPTOLITE HORIZON	

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FOOTAGE	DESCRIPTION	DIP
300	Upper Siliceous mudstone (mudstone) siliceous med & light grey banded, thinly laminated siliceous carbonaceous and weakly limy siliceous mudstone, with chert and carbonaceous bands. 2-10 mm bands most common. cut by secondary calcite veins and "pseudo beds"	
300-305	40-50 wavy beds	
305	graphitic fault.	
305-310	0-10°	
310	wavy bedding	
310-315	more carbon content than usual	
315-320	30°-60°	
320	carbonate content increasing.	
320-330	light grey thinly laminated limestone	
330	40 JOINT 90° TO STRIKE CFT	
330-340	med-light grey banded, - siliceous mudstone continued minor pyritic bands	
340	pyritic concretions	
340-345	grades into thin limestone	
345	pyritic med to light grey, thinly laminated siliceous limestone massive to	
345-350	pyritic grades into siliceous mudstone med	
350	Pyritic Dark grey to black carbonaceous siliceous, non calcareous, thinly laminated mudstone & pyritic laminations and grey x-line limestone concretions minor calcite veins and pseudo beds. py up to 50%	
350-355	PyCo concn. 20° 90° to 10°	
355	pyCo concn.	
360	90°	

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360	<p>laminated LS dark grey to black carbonaceous siliceous thinly laminated grey mudstone continued med grey thinly laminated limestone Ca vein.</p>	
370	<p>dark grey to black thinly laminated graphitic limestone</p>	
380	<p>dark grey pyritic grey carbonaceous LS graphitic fault highly carbonaceous black thinly laminated ^{graphitic} carbonaceous pyritic limestone mudstone platy cleavage more common non calcareous except for secondary calcite veins</p>	
390		
400		
410		
420		

END OF HOLE

Acid Test