

Drill Hole No. MH-102

Date: 3/13/78

Bearing: N 22.5° E Inclination: 20° N

Robert Kesty
Drilled By: Boyles Bros. Quinton Bartow

Coordinates: North 626,605.42 East 1,455,665.19

Logged By: Ferryl C. Gale

Elevation: 974.35

Total Depth: 167.0 Core: 0.0-167.0

DEPTH		%	SAMPLE	SAMPLE	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO	RECOVERY	NUMBER	INTERVAL	Sp. Gr.	BoSO ₄		
0.0	5.0							Set casing, no sample recovery; colluvium.
5.0	25.8							Interbedded gray shales & gray sandstone, highly weathered limonite staining, very broken & shattered.
25.8	40.0							Interbedded gray shales & sandstone, highly broken, fractures lines w/ limonite staining; occ. qtz veinlets, bedding dip 88°S.
40.0	54.3							Lt. gray fine-grained sandstone. Well cemented, occ. wisps of black shales, fractures are filled w/ limonite staining (Fault zone of shear 41.0-49.0) Striken about N 40 W. Bedding dip 88°S. at 51.0'.
54.3	56.0							Interbedded black shales & gray sandstone, Core loss of 1.0', shear zone, heavy limonite staining in fractures. Bedding 80°S.
56.0	60.0							Interbedded black shales & gray sandstone, highly broken, sheared fracture filled w/ pyrite.
60.0	62.0							Interbedded shales & sandstone, shear zone, slicken sides, (bed dip 78S, 62.0') Wisps of black shale.

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Logged By: _____

Elevation: _____

Total Depth: _____

DEPTH		%	SAMPLE	SAMPLE	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO	RECOVERY	NUMBER	INTERVAL	Sp. Gr.	BaSO ₄		
62.0	66.0							Lt. gray sandstone, occ. wisp of black shale, leached vuggs, fractures limonite filled. Bedding 75°S.
66.0	67.8							Interbedded black shales & gray sandstone, highly broken, shear zone, bedding dip 70S at 67.0'.
67.8	72.0							Lt. gray fine-grained sandstone, well-cemented, highly broken 70.0, shear zone, leached vuggs, occ. qtz veinlets, pyrite veneering fractures.
72.0	81.0							Interbedded black shales & gray & black sandstone, shales are cemented w/ silica, Core loss of 2.0' between 74.0-80.0 shear zone. Bedding dip 47°S. 81.0' dip 80°S.
81.0	93.3							Interbedded black shales & gray sandstone, highly broken, shear zone, occ qtz veinlets. 91.0-92.0 strong fault. Bedding dip 72°S at 88.0'.
93.3	97.0							Dark gray sandstone, well-cemented carbon rich fracture fillings, (Fault 93.3-94.3)

Locally highly broken, core loss 2.0'.

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FROM	TO	RECOVERY	NUMBER	INTERVAL	Sp. Gr.	BaSO ₄		
97.0	105.0							Dark gray sandstone, well-cemented locally, occ. qtz veinlets, (100.0-101.0 brecciated) locally carbon rich fractures. Bedding dip at 98.0' is 76°S.
105.0	116.6							Lt. gray fine-grained sandstone, well-cemented, very broken locally sheared, abundant qtz veinlets.
116.6	124.6							Sandstone as before, qtz & calcite stringers & veinlets.
124.6	126.4		2905					Sandstone as before, possible Barite cement, low grade app. 10% BaSO ₄ . Bedding dip 72°S.
126.4	128.5							Sandstone as before, abundant qtz & calcite blebs & veinlets.
128.5	135.0							Sandstone as before, abundant qtz veinlets, occ. wisps of black shales. Bedding dip 88°S. at 133.0'.
135.0	140.8		2906					Barite zone, small nodules, app. 30% Barite, low, med grade, barite nodules interbedded w/ black shales, 139.0 bedding dip 72°S.
140.8	144.5		2907					Barite zone, low-med grade app. 30% Barite,

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FROM	TO	RECOVERY	NUMBER	INTERVAL	Sp. Gr.	BaSO ₄		
								barite nodules interbedded w/ black shales, locally elongated nodules along bedding. Bedding dip 89°S. at 143.0'.
144.5	150.0		2908					Barite zone, thinly bedded barite, locally large nodules app 2 cm. dia. Med grade 50% BaSO ₄ .
150.0	153.8		2909					Barite zone, thin and thickly bedded barite locally, occ. large nodules, interbedded w/ black shales, bedding dip 83°S. 150.0-150.5 shear zone.
153.8	165.0							Interbedded black shales & gray sandstone, occ. veinlets of qtz & calcite, bedding dip 76°S. at 154.0'. Bedding dip 164.0'- 81°S.
165.0	167.0							Arkansas Novaculite, cherty, fine-grained.
								Bottom on Novaculite. T.D. 167.0'.
								Tro-Pari Surveys:
								Dip Az.
								Surface 20 N
								100' 18 N N 16 E
								167' 19 N N 11½ E

FANCY HILL - DIAMOND DRILL HOLES
INDIVIDUAL CORE ANALYSES BY INTERVALS

SAMPLE	LOG #	DEPTH	INTERVAL	A.P. SPECIFIC GRAVITY	CALCULATE % BaSO ₄
MH - 102					
2905	2300	124.6-126.4	1.8	2.795	3.15
2906	2301	135.0-140.8	5.8	3.216	36.98
2907	2302	140.8-144.5	3.7	3.207	36.35
2908	2303	144.5-150.8	6.3	2.896	12.16
2909	2304	150.8-153.8	3.0	2.767	0.53
		Total	20.60		
		Weighted Average		3.01	21.95