

DRILL HOLE RECORD

Drill Hole No.: MH-45 Inclination: 75°N.

Bearing: N. 30 E.

Property: Fancy Hill

Co-ordinates: North 626,046.5 East 1,457,363.18

Elevation: 970.0

Date: 7-30-78

Drilled By: Boyles Bros.

Logged By: Ferryl C. Gale

Total Depth: 281.0 Core 0.0-281.0

DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	Bo504	Cond.	
0.0	10.0						Set casing no core recovery.
10.0	25.7						Tan color fine grained sandstone highly weathered, highly fractured occasionally wisps of black shale.
25.7	36.5						Interbedded black shale and gray sandstone, locally highly weathered to tan shales. Bedding dip at 32.0 ft. is 70°S., highly fractured locally.
36.5	47.5						Gray sandstone, well cemented, locally fractured with limonite staining in fractures.
47.5	58.8						Sandstone as above, fault at 53.0 ft., bedding dip at 54.5 is 75°S.
58.8	67.4						Light gray sandstone with scattered lamina of black shale. Bedding dip at 67.0ft. is 73°S.
67.4	78.9						Light gray sandstone, very well cemented, jointed in 2 and 3 ft. joints. 76.5 to 77.0 very fine wisps of black shale.
78.9	88.5						As above, plus locally black shale lamina. At 85.0 fault with slicker sides. Bedding dip at 88.0 ft. is 77°S.
88.5	99.0						Sandstone as above. Bedding dip at 90.0 is 75°S.
99.0	110.0						Sandstone as before, highly fractured and broken. slippery

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DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
							along bedding plains.
110.0	123.0						Sandstone as before, fault 113.0 - 114.0 slicker sides.
							Bedding dip at 120.0 is 72°S.
123.0	133.0						Black shale with lenses of light gray sandstone. Bedding
							dip at 128.0 ft. is 78°S.
133.0	144.0						Light gray sandstone, well cemented. Bedding dip at
							135.0 ft. is 78°S.
144.0	157.5						Sandstone as before.
157.5	167.0						Sandstone as before, bedding dip at 160.0 ft. is 80°S.
167.0	178.0						Sandstone as before, very competent and well cemented.
							Bedding dip at 169.0 ft. is 83°S.
178.0	189.0						Sandstone as before, occasional qtz. veinlets. Bedding
							dip 80°S.
189.0	200.0						Sandstone as before, very well cemented.
200.0	203.0						Sandstone as before.
203.0	210.0						Interbedded gray siltstone and dark gray shales. 206.0 -
							207.0 nodular of clay in black shale that have never been
							replaced by barite. Bedding dip 82°S. at 208.0 ft.
210.0	222.0						Dark gray sandstone interbedded with black shales, bedding
							dip at 218.0 ft. is 78°S.

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DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
222.0	225.5						Interbedded black shale and gray sandstone.
225.0	231.5		7615				Barite zone, low grade highly broken.
231.5	233.5		7616				Barite zone, medium grade, approx. 55 % BaSO ₄ , laminated to massive barite. Bedding dip at 231.0 is 82°S.
233.5	235.0						Black shale, no indications of barite.
235.0	243.0		7617				Barite zone, medium grade approx 50% BaSO ₄ , laminated and nodular barite in black shale host rock. Bedding dip at 235.0 ft. is 73°S.
243.0	253.5		7618				Barite zone, medium grade, approx. 60% BaSO ₄ , laminated, bedding dip at 248.0 ft. is 73°S.
253.5	255.5		7620				Barite zone, medium grade, approx. 40% BaSO ₄ , large nodules of barite in matrix of black shale.
255.5	261.0		7621				Barite zone, low grade, approx. 20% BaSO ₄ , scattered nodules of Barite.
261.0	264.0						Black shale interbedded with lenses of siltstone. Highly fractured fault zone.
264.0	275.0						Black shale as above, plus dissiminated and blebs of marcasite; 272.0 - 273.0 weak brecciation cemented with with pyrolucite (MnO ₂); locally core is light gray in color.
275.0	279.0						Black shale as before.

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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
279.0	281.0						Arkansas Novaculite.
		Hole bottomed on Novaculite		T.D.	281.0	ft.	
		Acid Test Survey					
		Dip	AZ				
		Surface	75° N.	N. 30° E.			
		130'	70° N.	N. 30° E.			
		280'	68° N.	N. 30° E.			

Bottom Hole Coring	626, 133.74	1,457,413.69	707.83
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FANCY HILL - DIAMOND DRILL HOLES - PHASE II

INDIVIDUAL CORE ANALYSES BY INTERVALS

SAMPLE	LOG #	DEPTH	INTERVAL	A.P. SPECIFIC GRAVITY	CALCULATED % BaSO ₄
MH-45					
#1	7615	225.5-231.5	6.0	2.892	11.82
#2	7616	231.5-233.5	2.0	3.784	70.70
#3	7617	235.5-243	7.5	3.177	34.23
-	-	243-244.5	1.5	2.761	0.00
#4	7618	244.5-253.5	9.0	3.039	23.90
#5	7620	253.5-255.5	2.0	2.994	20.33
#6	7621	255.5-261	5.5	2.816	5.08
		Total	33.50		
COMPOSITE		CALCULATED		3.036	23.69