

DRILL HOLE RECORD

 Drill Hole No.: MH-110 Inclination: 30°N

 Date: 6/15/78

 Property: Fancy Hill

 Drilled By: Boyles Bro. Bob Kesty

 Dip: North 627, 323.29 East 1,454, 095.78

 Logged By: Ferryl C. Gale

 Elevation: 1028.36

 Total Depth: T.D: 261.0 ft. Core 20.0-261.0

 Bearing N 16 E.

DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO4	Cond.	
0.0	5.0						Set casing, no sample recovery.
5.0	10.0	75%					Rotary sample, gray & buff sandstone.
10.0	15.0						Buff sandstone.
15.0	20.0						Buff sandstone.
							Hit water in hole--began coring.
20.0	28.9						Gray sandstone, locally bleached, heavy limonite staining along fractures. Locally darker gray sandstone due to carbon content & black shale.
28.9	40.9						Sandstone as above. Highly broken & sheared 32.0-35.0, scattered qtz veinlets. Bedding dip 36.0' is 86°S.
40.9	51.0						Sandstone as above, (44.8-51.0 shear zone gouge & faulted, approx 4.0' core loss).
51.0	57.4						Black sandstone, highly sheared fault gouge. Brecciated carbon rich, approx 4.0' core loss.
57.4	61.2						Lt. gray sandstone, well cemented, fine-grained. (Faulted brecciated 59.6-60.4)
61.2	71.7						Interbedded gray & black sandstone, gnarled

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DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
							bedding locally. Bedding dip 72°N. Flow breccia where sediments have been squeezed.
71.7	83.9						Lt. gray sandstone, occasional qtz veinlets & occasional lamina of gray & black shale. (Highly broken 74.0-79.0)
83.9	94.0						Sandstone as before. Bedding dip at 93.0 is 87°S.
94.0	106.0						Sandstone as before. Bedding dip at 103.0 is 88°S.
106.0	116.0						Sandstone as before, (highly broken 110.0-115.0)
116.0	128.0						Sandstone as above, occasional lamina of black shale. Bedding dip at 124.0' is 85°S.
128.0	135.0						Gray & black shales w/ lamina of gray sandstone. Bedding at 135.0' is 83°S. (Highly broken)
135.0	139.0						Lt. gray sandstone.
139.0	151.2						Sandstone as above, occasional qtz veinlets & black shale lamina. Bedding dip at 149.0 is 75°S.

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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
151.2	161.6						Sandstone as above. Bedding dip 88°S at 157.0 ft.
161.6	173.4						Gray sandstone as above, (171.5-173.4 highly broken).
173.4	183.8						Sandstone as above, occasional qtz veinlets & occasionally black shale lamina. Bedding dip at 183.0 is 89°S.
183.8	195.0						Gray sandstone, w/ occasional wisps & lamina of black shale. Bedding dip at 194' is 89°S.
195.0	206.0						Sandstone as above. Bedding dip at 204 is 82°S.
206.0	215.1						Gray sandstone w/ interbedded black shales. Bedding dip at 208 is 85°N.
215.1	217.5		FCG20	2.0'			Barite zone, low grade approx 20%, scattered barite nodules in black shale.
217.5	220.9		FCG21	3.4'			Barite zone, medium grade, approx 40% BaSO ₄ , scattered nodules in gray & black shales. Bedding dip at 220.0 is 75°S.
220.9	224.5		FCG22	3.6'			Barite zone as above. Bedding dip at 222.5 is 78°S.

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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
224.5	228.6		FCG23	4.1'			Barite zone as above. Medium grade, 60% BaSO ₄ . Bedding dip 226.0' is 76°S.
228.6	231.0		FCG24	2.4'			Barite zone, low grade, 10% BaSO ₄ , Bedding dip at 230 is 78°S.
231.0	234.6		FCG25	3.6'			Barite zone, low grade 10% BaSO ₄ scattered large nodules of Barite in gray shales. (approx 4 cm wide)
234.6	238.3		FCG26	3.7			Barite zone, low grade, approx. 10% BaSO ₄ , (at 236.5-236.8 a high grade area approx. 60% BaSO ₄) large nodules, closely spaced, oriented along bedding plane. Bedding dip at 236.5 is 83°S.
238.3	239.6		FCG27	1.3			Barite zone, low grade approx 10% BaSO ₄ scattered nodules in black shale. Bedding dip at 239.0 is 77°S.
239.6	249.6						Interbedded black & gray shales. Bedding dip at 240.0 is 80 S.
249.6	260.5						Black shale, at 259.5-260.5. Brecciated & recemented w/ qtz & calcite.
260.5	261.0						Arkansas Novaculite, chert & fine grained

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[illegible]

Bottom Hole corals	627,548.44	1,454,153.93	910.72
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FANCY HILL - DIAMOND DRILL HOLES

INDIVIDUAL CORE ANALYSES BY INTERVALS

SAMPLE	LOG #	DEPTH	INTERVAL	A.P. SPECIFIC GRAVITY	CALCULATED % BaSO ₄
MDDH 110					
FCG 20	4500	215.1-217.5	2.4	3.347	45.77
FCG 21	4501	217.5-220.9	3.4	3.776	70.30
FCG 22	4502	220.9-224.5	3.6	3.425	50.69
FCG 23	4503	224.5-228.6	4.1	3.539	57.48
FCG 24	4504	228.6-231	2.4	2.829	6.25
FCG 25	4505	231-234.6	3.6	2.924	14.55
FCG 26	4506	234.6-238.3	3.7	2.881	10.86
FCG 27	4507	238.3-239.6	1.3	2.903	12.76
		Total	24.5		
		Weighted Average		3.24	38.78