

Drill Hole No. MH-112 Good hole-good Barite

Date: May 1978

Bearing: N 20 E Inclination: 35°N.

Drilled By: Boyles Bro. Bob Kesty

Coordinates: North 627,403.17 East 1,453,719.25

Logged By: Ferry C. Gale

Elevation: 1001.19

Total Depth: T.D. 311.0 Core 0.0-311.0

DEPTH		% RECOVERY	SAMPLE NUMBER	SAMPLE INTERVAL	ANALYSES		DESCRIPTION OF MATERIAL DRILLED
FROM	TO				Sp. Gr.	BaSO ₄	
0.0	15.0						Set casing, no sample recovery.
15.0	27.0						Fine grained sandstone, highly weathered, light gray color, heavy limonite staining in fractures. (17.0-21.0 fault, 1.0 ft. core loss) strong brecciation, slicken sides from 21.0-27.0 highly fractured. Sandstone w/ occasional wisps of black shale.
27.0	38.6						Sandstone as above, locally thin lamina of gray or black shale. Bedding dip 29.0' is 86°N.
38.6	49.2						Sandstone as above. Bedding dip 41.0'-89°N.
49.2	59.7						Sandstone as before, very competent.
59.7	70.8						Interbedded gray sandstone & black shale lenses. Bedding dip 60.0' is 89°N.
70.8	81.8						As above plus occasional qtz. & calcite veinlets. Bedding dip at 77.0' is 89°S.
81.8	93.0						Lt. gray fine-grained sandstone, occasional veinlet of qtz & calcite (84.0-90.0 Fault zone, sheared, slicken sides, carbon rich slicken sides)

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FROM	TO	RECOVERY	NUMBER	INTERVAL	Sp. Gr.	BaSO ₄		
93.0	104.0							Sandstone as before, (93.0-96.0 faulted & sheared zone) Brecciated 95.0-96.0, re-cemented w/ qtz & calcite.
104.0	115.0							Interbedded gray sandstone & black shale lenses & lamina. Bedding dip at 109' 70°N.
115.0	126.0							As above, bedding dip at 118' is 88°S.
126.0	137.0							Lt. gray fine-grained sandstone, w/ occasional wisps of black shale. Bedding dip at 136' is 89°N.
137.0	148.0							As above, competent sandstone. Bedding dip at 145.0' is 89°N.
148.0	160.0							Sandstone as above, Bedding dip at 155.0 is 86°N. (bedding slicken sides at 155.0)
160.0	171.0							Interbedded gray & black shales & sand stones. Bedding dip at 168.0 is 88°S.
171.0	182.0							Lt. fine grained sandstone, very competent (at 180.0 gnarled bedding). Bedding dip at 190' is 89°S.
182.0	193.2							Sandstone as above. Bedding dip 190'-89°S.
193.2	205.1							Interbedded gray sandstone & black shale,

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FROM	TO	RECOVERY	NUMBER	INTERVAL	Sp. Gr.	BaSO ₄		
								w/ numerous qtz veinlets, bedding dip at 200' is 82°N.
205.1	218.1							As above.
218.1	228.3							Lt. gray sandstone, locally dark gray, occasional qtz & calcite veinlets.
228.3	239.4							Interbedded black shale & gray sandstone scattered blebs of marcasite in black shale. These blebs are elongated w/ bedding plane.
239.4	250.0							Sandstone w/ abundant wisps of black shale. Bedding dip at 247.0 is 79°S.
250.0	260.0							Sandstone as above. Bedding dip at 257.0 is 75°S.
260.0	263.0							Sandstone as above.
263.0	266.0		7609	3.0'				Barite zone, low grade barite, approx 10% BaSO ₄ . Barite cement in gray shale, locally scattered nodules.
266.0	271.0		7610	5.0'				Barite zone, med grade, 60% BaSO ₄ , locally nodular & massive, occasionally thin lamina of black shale. Good Barite.
271.0	276.0		7611	5.0'				Barite zone, med. grade 50% BaSO ₄ . Nodular

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FROM	TO	RECOVERY	NUMBER	INTERVAL	Sp. Gr.	BaSO ₄		
								and barite cement in gray shale. Bedding dip 273.0' is 80°S.
276.0	279.5		7612	4.5'				Barite zone as above. Bedding dip at 276.5 is 80°S.
279.5	283.0		7613	3.5'				Barite zone, low grade approx 20% BaSO ₄ . independant nodules of barite in dark gray shales. Bedding dip 282' is 84°S.
283.0	288.2		7614	5.2'				Barite zone, low grade approx 10% BaSO ₄ . scattered large nodules of barite in gray shales.
288.2	294.0							Gray shales, bedding dip at 291' is 84°S.
294.0	305.7							Interbedded gray & black shale. Contacts are gradational. (295.0-299.0 fault zone, highly fractured) (302.5-305.7 fault zone highly fractured & broken, shearing & slicken sides.
305.7	310.0							Fault zone (5.0' core loss gouge & washed away by drilling.
310.0	311.0							Arkansas Novaculite.
								Bottomed on Novaculite. T.D. 311.0'.

Total Depth: _____

10/77

FANCY HILL - DIAMOND DRILL HOLES - PHASE II

INDIVIDUAL CORE ANALYSES BY INTERVALS

SAMPLE	LOG #	DEPTH	INTERVAL	A.P. SPECIFIC GRAVITY	CALCULATED % BaSO ₄
MH-112					
#1	7609	263-266	3.0	3.524	56.62
#2	7610	266-271	5.0	3.933	77.93
#3	7611	271-276	5.0	3.613	61.67
#4	7612	276-279	3.0	3.550	58.12
-	-	279-279.5	.5	2.761	0.00
#5	7613	279.5-283	3.5	2.904	12.85
-	-	283-287	4.0	2.761	0.00
#6	7614	287-288.2	1.2	2.870	9.90
		Total	25.20		
COMPOSITE		CALCULATED		3.373	47.41