

Drill Hole No. MH-91 (BX)

Date: 4-27-79

Bearing: N.16°E. Inclination: 45°N.

Drilled By: Boyles Brothers (Wade Betts, Wayne Wright)

Coordinates: North 627,175.78 East 1,454,337.58

Logged By: Ferryl C. Gale

Elevation: 1047.18

Total Depth: 335.0 ft. Core 0.0 - 335.0

DEPTH		%	SAMPLE	SAMPLE	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO	RECOVERY	NUMBER	INTERVAL	Sp. Gr.	BaSO <sub>4</sub>		
					Bearing		Dip	
				Surface	N.16°E.		45°N.	
				65.0'	N.16½°E.		44°N.	
				135.0'	N.18½°E.		42°N.	
				235.0'	N.22½°E.		39°N.	
				335.0'	N.24½°E.		36 3/4°N.	
0.0	20.0							Set casing to 20.0 with bevell wall bit. Gray sandstone weather to tan color.
20.0	32.0							Sandstone gray color; heavy limonite staining in fractures.
32.0	44.8							Sandstone as above.
44.8	56.5							Light gray sandstone, fine grained well cemented, occasional wisps of black shales, heavy limonite staining in fractures.
56.5	65.0							Same as above
65.0	69.9							Light gray sandstone as before, wisps of black shale, limonite staining in fractures due to ground water.
69.9	82.1							Light gray sandstone, fine grained occasional wisps of black shale, well cemented with silica high R.Q.D.

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Coordinates: North \_\_\_\_\_ East \_\_\_\_\_

Logged By: \_\_\_\_\_

Elevation: \_\_\_\_\_

Total Depth: \_\_\_\_\_

DEPTH		%	SAMPLE	SAMPLE	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO	RECOVERY	NUMBER	INTERVAL	Sp. Gr.	BaSO <sub>4</sub>		
82.1	97.0							Sandstone as above, locally interbedded with black shales.
97.0	103.0							Interbedded black shales and gray sandstone, with veinlets of quartz and calcite.
103.0	110.0							Gray sandstone, occasional lamina of black shales.
110.0	119.0							As above.
119.0	131.0							Gray sandstone interbedded with black shale lamina.
131.0	143.0							Gray sandstone, high R.Q.D., bedding dip 78°S.
143.0	149.0							Gray sandstone as before
149.0	160.0							Gray sandstone with black shale lamina.
160.0	172.0							Gray and dark gray sandstone locally lamina of black and gray shales.
172.0	184.0							Gray sandstone, interbedded black shale lamina, numerous qtz. and calcite veinlets.
184.0	196.0							As above.
196.0	208.0							Gray sandstone, as above.
208.0	221.0							Sandstone with small micro fractures filled with carbon.
221.0	233.0							As above bedding dip at 230.0' is 89°S.
233.0	245.0							Gray sandstone as above with numerous qtz. and calcite veinlets.

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Drilled By: \_\_\_\_\_

Coordinates: North \_\_\_\_\_ East \_\_\_\_\_

Logged By: \_\_\_\_\_

Elevation: \_\_\_\_\_

Total Depth: \_\_\_\_\_

DEPTH		%	SAMPLE	SAMPLE	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO	RECOVERY	NUMBER	INTERVAL	Sp. Gr.	BaSO <sub>4</sub>		
245.0	257.0							Interbedded gray sandstone and black shales, occasional qtz. veinlets.
257.0	270.0							Gray sandstone, High R.Q.D. Well cemented with silica Bedding dip at 265.0' is 76°S.
270.0	283.0							Sandstone with interbedded black shale lamina.
283.0	286.6							Dark shales and sandstone
286.6	291.0		9797		3.118	29.9		Barite zone, low grade scattered nodules of barite.
291.0	294.0							Black shales
294.0	295.0		9798		2.736	0.0		Barite zone, very low grade very scattered nodules of barite.
295.0	303.0		9799		3.063	25.8		Barite zone, low grade, scattered nodules in black shale
303.0	309.0		9800		2.874	10.3		Barite zone, low grade
309.0	317.0		9801		2.906	13.0		Barite zone, low grade
317.0	329.0							Sandstone with black shale lamina
329.0	334.0							Black shales, marcasite at contact
334.0	335.0							Arkansas Novaculite

FANCY HILL DIAMOND DRILL HOLES  
INDIVIDUAL CORE ANALYSIS BY INTERVALS

SAMPLE	LOG #	DEPTH	INTERVAL	SPECIFIC GRAVITY	% BaSO <sub>4</sub>
<u>#91</u>					
9797		286.6-291.0	4.4	3.118	29.9
9798		294.0-295.0	1.0	2.736	0.0
9799		295.0-303.0	8.0	3.063	25.8
9800		303.0-309.0	6.0	2.874	10.3
9801		309.0-317.0	8.0	2.906	13.0
		TOTAL	<u>27.4</u>	<u>          </u>	<u>          </u>
		WEIGHTED AVERAGE		2.974	18.69

# Barite Intervals for MH-91

<u>Sample #</u>	<u>Footage</u>	<u>%BaSO4</u>	<u>Specific Gravity</u>
9797	286.6-291.0		
(Lost 3' Core)	291.0-294.0		
9798	294.0-295.0		
9799	295.0-303.0		
9800	303.0-309.0		
9801	309.0-317.0		

MINERAL DIV

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