

Drill Hole No. MH-37

Date: May 1978

Bearing: N 26 E Inclination: 64°N

Drilled By: Boyles Bro. Ralph Jex

Coordinates: North 628,531.21 East 1,451,149.82

Logged By: Ferryl C. Gale  
Air Rotary 0.0-23.0

Elevation: 1046.56

Total Depth: T.D. 422.0 Core 23.0-422.0

DEPTH		%	SAMPLE	SAMPLE	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO	RECOVERY	NUMBER	INTERVAL	Sp. Gr.	BaSO <sub>4</sub>		
0.0	5.0							Set casing, no sample.
5.0	10.0							Weathered sandstone; tan color
10.0	15.0							Weathered sandstone; tan color
15.0	20.0							" " " "
20.0	23.0							" " " "
23.0	32.0							Gray fine grained sandstone, fractures contain limonite staining.
32.0	42.9							Sandstone as above, w/ occasional wisps of black shale.
42.9	54.0							As above, Bedding dip at 45.0' is 84°S.
54.0	65.6							As above, plus locally darker gray. Bedding dip at 61.0' is 84°S.
65.6	71.0							Sandstone as above.
71.0	74.0							Black shale interbedded w/ lamina of sandstone, Bedding dip at 73' is 83°S.
74.0	88.0							Sandstone as above, very competent.
88.0	98.9							Sandstone as above. Very competent, occasional qtz veinlet.
98.9	111.0							Sandstone as above w/ lenses of black shale. Bedding dip at 103.5 is 89°S.

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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>		
111.0	121.0							Sandstone as above. Bedding dip at 118.0 is 89°N.
121.0	132.0							Sandstone as above, very competent
132.0	143.0							Sandstone w/ occasional black shale lenses scattered qtz veinlets. Bedding dip at 142.5 is 88°S.
143.0	154.0							As above w/ marcasite in black shale fractures.
154.0	164.0							Sandstone as above w/ lenses of black shale. Bedding dip at 159.0 is 88°S.
164.0	169.0							Black shale Bedding dip at 169.0 is 89°S.
169.0	173.0							Lt. gray fine grained sandstone.
173.0	181.0							Black shale (strong qtz & calcite stringer at 177.0) sandstone lamina.
181.0	190.0							Lt. gray sandstone as above 181.0-182.0 shearing.
190.0	198.7							Sandstone as before w/ lamina of black shale, Bedding dip at 190.5 is 89°S.
198.7	209.4							Sandstone as above, occasional wisp of black shale, (208.0-209.0 strong breccia recemented

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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 <sub>4</sub>		
								with qtz & calcite) Bedding dip at 203.5 is 86°N.
209.4	221.0							Sandstone as above, slicken sides at 216.0 Bedding dip at 221.0 is 85°S.
221.0	231.9							Sandstone as above, darker gray in color.
231.9	243.0							Sandstone as above, very competent. Bedding dip at 237.0' is 86°S.
243.0	254.1							Sandstone as above (at 253.5 strong qtz stringer)
254.1	265.3							Sandstone as above, very competent. Bedding dip at 265.0 is 86°S.
265.3	276.6							Sandstone as above w/ occasional wisp of black shale, marcasite blebs w/ black shale.
276.6	288.1							Sandstone as above, very competent. Bedding dip at 287.0' is 88°S.
288.1	298.0							Sandstone as above w/ black shale lenses. Bedding dip at 297.0 is 86°S.
298.0	310.1							Dark gray sandstone. Bedding dip at 306.0 is 86°S.
310.1	313.0							Interbedded lamina of gray sandstone & black shale.

## DRILL HOLE RECORD

 Drill Hole No.: MEH-37 Inclination: \_\_\_\_\_

Date: \_\_\_\_\_

Property: \_\_\_\_\_

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

Co-ordinates: North \_\_\_\_\_ East \_\_\_\_\_

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

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

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

DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO4	Cond.	
313.0	321.5						Dark gray sandstone w/ wisps of black shale (319.0-321.0 fault sheared, highly broken sandstone) Bedding dip at 314.0 is 86°S.
321.5	333.0						Sandstone as above, Bedding dip at 324.0 is 86°S.
333.0	340.8						Interbedded dark gray sandstone & black shale, bedding dip at 340.0 is 86°N.
340.8	344.0		2911	340.8	NC28 699.07 E 1.451 191.97 Elev 753.85		Barite zone, low grade, approx 20% BaSO4, scattered nodules in black shale.
344.0	348.4		2912				Barite zone, low grade 20% BaSO4, as above.
348.4	350.0						Black shale.
350.0	353.6		2913				Barite zone, low grade, 30% BaSO4 as before.
							Bedding dip at 351.0' is 84°S.
353.6	356.6		2914				Barite zone, low grade approx 20% BaSO4, As before.
356.6	359.5		2915				Barite zone, low grade approx 30% BaSO4, Bedding dip at 357.0 is 84°S.
359.5	366.2						Dark gray sandstone interbedded w/ black shale.
366.2	369.8		2916				Barite zone, low grade 10%, scattered nodules of barite in gray shales.

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

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

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

DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO <sub>4</sub>	Cond.	
369.8	374.0		2917	371' = N 628.718 .57 E 1.451, 199.40			Barite zone, as before, bedding dip at 371.0' is 88°S.
374.0	377.8			Elcv = 728.05			Gray sandstone.
377.8	380.5						Barite zone, low grade approx 10% BaSO <sub>4</sub> , scattered nodules in gray shale. Bedding dip at 379.0 is 88°S.
380.5	388.0						Interbedded black & gray shale, marcasite nodules.
388.0	399.0						Interbedded gray & black shales. Bedding dip at 89°S.
399.0	406.0						Interbedded as above. Bedding dip at 403.0 is 89°S.
406.0	420.0						Lt. gray sandstone. Bedding dip 84°S. This is unusual for sandstone to be on the foot wall side of the Barite at the west end of the property
420.0	421.8						Gray & black shales.
421.8	422.0						Arkansas Novaculite.
							Bottom on Novaculite. T.D. 422.0'



## DRILL HOLE RECORD

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Co-ordinates: North \_\_\_\_\_ East \_\_\_\_\_

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

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

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

[illegible]

FANCY HILL DIAMOND DRILL HOLES  
INDIVIDUAL CORE ANALYSES BY INTERVALS

SAMPLE	LOG #	DEPTH	INTERVAL	A.P. SPECIFIC GRAVITY	CALCULATED % BaSO <sub>4</sub>
MDDH 37					
2911	4300	340.8-344	3.2	2.877	10.52
2912	4301	344-348.4	4.4	3.021	22.48
-	-	348.4-350	1.6	2.761	0.00
2913	4302	350-353.6	3.6	3.092	27.97
2914	4303	353.6-356.6	3.0	3.013	21.85
2915	4304	356.6-359.5	2.9	3.088	27.67
-	-	359.5-366.2	6.7	2.761	0.00
2916	4305	366.2-369.8	3.6	2.883	11.04
2917	4306	369.8-374	4.2	2.896	12.16
-	-	374-377.8	3.8	2.761	0.00
2918	4307	377.8-380.5	2.7	2.821	5.53
		Total	39.70		
		Weighted Average		2.902	12.65