

Drill Hole No. MH-30

Date: 12/6/77

Bearing: N 26 E Inclination: 47°N

Drilled By: Boyles Bros. Ralph Jex, Dempsey C.

Coordinates: North 629, 441.54 East 1, 449, 189.46

Logged By: Ferryl C. Gale

Elevation: 1166.85

Air rotary 0.0-124.0
Total Depth: 170.1 Cored 124.0-170.00

DEPTH		%	SAMPLE	SAMPLE	ANALYSES		DESCRIPTION OF MATERIAL DRILLED
FROM	TO	RECOVERY	NUMBER	INTERVAL	Sp. Gr.	BaSO ₄	
0.0	5.0	0%		5.0'			Set casing (oxidized zone)
5.0	10.0	90%	-10	5.0'			Buff colored sandstone, highly weathered some shale has been altered to clay, orange iron oxidation on clasts.
10.0	15.0	90%	-15	5.0'			Orange colored sandstone, highly weathered, orange iron oxide staining.
15.0	20.0	90	-20	5.0'			Buff colored sandstone interbedded with gray sandstone.
20.0	25.0	90	-25	5.0'			" " " " "
25.0	30.0	90	-30	5.0'			" " " " "
30.0	35.0	90	-35	5.0'			Dark orange fine grained sandstone inter- bedded with gray sandstone and gray shale. The shale has been weathered to clays.
35.0	40.0	90	-40	5.0'			Buff colored fine sandstone, interbedded with gray sandstone & shale locally stained orange by iron oxidation.
40.0	45.0	90	-45	5.0'			Light gray colored fine sandstone inter- bedded with lt. orange sandstone due to iron oxidation.
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Drill Hole No. MH-30

Date: 12/9/77

Bearing: N 26°E Inclination: 47°N

Drilled By: Boyles Bros., Ralph Jex

Coordinates: North 629,441.48 East 1,449,189.38

Logged By: FCGale

Elevation: 1166.85

Total Depth: 170.1

DEPTH		% RECOVERY	SAMPLE NUMBER	SAMPLE INTERVAL	ANALYSES		DESCRIPTION OF MATERIAL DRILLED
FROM	TO				Sp. Gr.	BaSO ₄	
45.0	50.0	90	-50	5.0'			Lt. gray fine sandstone, some sand grains have orange oxide staining.
50.0	55.0	90	-55	5.0'			Med. gray fine sandstone, wisps of gray shale weathered to clays locally.
55.0	60.0	90	-60	5.0'			Med. gray sandstone " "
60.0	65.0	90	-65	5.0'			Med. gray, fine to med. grained sandstone, possibly interbedded with thin lamina of shale.
65.0	70.0	90	-70	5.0'			" " " "
70.0	75.0	90	-75	5.0'			" " " "
75.0	80.0	90	-80	5.0'			Dark gray sandstone possibly grading into a black silty shale.
80.0	85.0	90	-85	5.0'			Black silty shale, carbon rich nodules and some shale altered to clays.
85.0	90.0	90	-90	5.0'			Black shale, carbonaceous
90.0	95.0	90	-95	5.0'			" " " "
95.0	100.0	90	-100	5.0'			Black shale, carbon rich nodules, blocky & hard.
100.0	105.0	90	-105	5.0'			Black shale, carbon rich nodules, fine grained crystalline disseminated pyrite.

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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 ₄		
105.0	110.0	90	-110	5.0'				Black shale, with weak disseminated pyrite Carbon rich nodules. 106.0-106.5-Low grade barite.
110.0	115.0	90	-115	5.0'				Black shale, blocky cuttings, carbon rich nodules with fine grained replace- ment barite crystals scattered through- out the nodule. (Very low grade)
115.0	120.0	90	-120	5.0'				Black shale, blocky cuttings, carbon rich nodules. At 120.0', water was encountered. Driller indicated that hole could be cont. in small amount of water. The hole was stopped with air rotary at 124.0. ft.
120.0	124.0	0	-124	4.0'				No sample was recovered. Driller indic- ated from 123.0-124.0 there was a sign- ificant rock change. At this time, I am calling it Barite because core from first run was med. grade Barite
								Begin Coring.

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Bearing: N 26 E Inclination: 47 N

Drilled By: Boyles Brox.

Coordinates: North East

Logged By:

Elevation:

Total Depth:

DEPTH		% RECOVERY	SAMPLE NUMBER	SAMPLE INTERVAL	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO				Sp. Gr.	BaSO ₄		
124.0	125.0	100%	-125	1.0'				Med. grade nodular Barite, app. 40-60% Barite interbedded with thin lamina <1 Cm. in width. Bedding dipping at 73°S. Banded appearance.
125.0	126.0	50%	-126	1.0'				Broke up coming out of core barrel. Scattered nodules of Barite in size of 1 cm. to 2 cm. about 20% barite, inter- bedded with black shales lamina 1-2 cm in width.
126.0	150.0	90	-150	24.0'				Black shales interbedded with dark gray shales, silty locally weak fine grained disseminated pyrite.
150.0	151.0	90	-151	1.0'				Med. grained black sandstone, weak dis- seminated graphite and pyrite. Very friable individual grains coated with carbon film. Carbonaceous.
151.0	152.0							Black shales, interbedded with dark gray shales, silty locally with weak dis- seminated pyrite.

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Coordinates: North _____ East _____

Logged By: _____

Elevation: _____

Total Depth: _____

DEPTH		% RECOVERY	SAMPLE NUMBER	SAMPLE INTERVAL	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO				Sp. Gr.	BaSO ₄		
152.0	154.0	95%	-154	2.0'				Low grade, scattered nodules of Barite 1-2 cm in size, approx. 20% Barite. Barite is interbedded with dark gray & black shales, pyrite rich nodules in size 1-2 cm.
154.0	158.0			4.0				Gray fine shales banded appearance & mottled locally.
158.0	159.0			1.0'				Black shale, carbonaceous, and carbon rich.
159.0	162.0			3.0'				Gray sandstone, fine grained, closely spaced, well silicified.
162.0	164.3			2.3'				Gray shales.
164.3	164.6			.3'				Black shales.
164.6	167.0			2.6'				Gray shales
167.0	169.9							Black shales
169.9	170.1							Arkansas Novaculite
				Bottom of hole				

Samples Sent to Houston

MH-30

Sample

Footage

Sp. Gravity

MH-30-2732

115.0-120.0

30-2733

124.0-126.0

30-2734

152.0-154.0

FANCY HILL - DIAMOND RILL HOLES - PHASE I

INDIVIDUAL CORE ANALYSES BY INTERVALS

SAMPLE	LOG #	DEPTH	INTERVAL	A.P. SPECIFIC GRAVITY	CALCULATED % BaSO ₄
MDDH-30					
#2732	1500	115.0-120.0	5.0	2.80	3.61
-	-	120.0-124.0	4.0	2.761	0.00
2733	1501	124.0-126.0	2.0	3.45	52.22
2734	1502	152.0-154.0	2.0	2.93	15.06
		Total 13.0			
		Weighted Average		2.908	13.20