

DRILL HOLE RECORD

Drill Hole No. MH-58 Inclination: 60° N
Bearing: N. 25 E.
Property: Fancy Hill East Pit
Co-ordinates: North 626,336.51 East 1,456,587.33
Elevation: 937.50

Date: November, 1978

Drilled By: Boyles Bro. - Harold Vest, Junior Miller,
Wade Betts, Ricky Deaton

Logged By: Ferryl C. Gale

Total Depth: 154.0 Core 0.0 - 154.0

DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
				Acid test Survey Down Hole			
				Dip		AZ	
		Surface		60° N.		N. 25° E.	
		75.0'		58½° N.		"	
		150.0'		57° N.		"	
		T.D.		154.0 ft.			
0.0	10.0						Set casing (no core recovery)
10.0	27.0						Highly broken and weathered sandstone, approx. 7.0 ft. core loss in this interval. Near large fault at gap. Abundant iron staining in fractures.
27.0	40.0						Light gray fine grained sandstone, occasional wisps and lamina of black shale, locally very broken 28.0 - 29.0 and 34.0 - 35.0. Bedding dip at 38.0 ft. is 65° S.
40.0	49.0						Sandstone well cemented, very competent. High R.Q.D. Fault or fractures and broken at 48.0 - 49.0.
49.0	59.0						Sandstone as above.
59.0	69.0						Sandstone as above, locally dark gray to black due to black shale lamina. Bedding dip at 63.0 ft. is 70° S.
69.0	81.0						As above, bedding dip at 77.0 ft. is 74° S., scattered calcite veinlets.
81.0	88.0		7289		42.44		Barite zone, medium grade, 40% BaSO ₄ , Bedding dip at 83.0 ft. 80° S.

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Elevation: _____

Total Depth: _____

DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO ₄	Concl.	
88.0	91.5		72.90		61.61		Barite zone, medium grade 50% laminated barite.
91.5	95.0		72.91		36.35		Barite zone, medium grade approx 40% BaSO ₄ . Bedding dip
							at 93.5 ft. is 80°N.
95.0	99.0		7292		40.62		Barite zone, as above, bedding dip at 98.0 ft. is 86°S.
							Well defined nodular barite.
99.0	102.0		7293		41.30		Barite zone, low grade 30% BaSO ₄ laminated and scattered
							nodules barite in black shale.
102.0	105.8		7294		39.26		Barite zone, medium grade 40%, bedding dip at 105.0 is 89°S.
105.8	109.8		7295		41.10		Barite zone, low grade 30% scattered nodules in black shale
109.8	113.0		7296		49.01		Barite zone, high grade, approx. 60% BaSO ₄ , bedding dip at
							109.9 is 85°N., elongated nodules.
113.0	118.0		7297		42.90		Barite zone, medium grade, approx 50% BaSO ₄ .
118.0	120.0		7298		20.33		Barite zone, poor grade, scattered nodules in black and
							gray shales.
120.0	124.5		7299		53.49		Barite zone, medium grade 50% BaSO ₄ .
124.5	128.5		7300		48.39		Barite zone, 30% BaSO ₄ low grade, bedding dip at 128.0 is 75°
128.5	133.0		7301		55.27		Barite zone 20% BaSO ₄ low grade, abundant finely crystalline
							calcite, appearance of limestone.
133.0	137.5		7302		19.76		Barite zone approx 10% BaSO ₄ low grade, scattered nodules of
							barite in gray shales.

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Logged By: _____

Elevation: _____

Total Depth: _____

[illegible]

INDIVIDUAL CORE ANALYSIS BY INTERVALS

Revised 2/21/79

SAMPLE	LOG #	DEPTH	INTERVAL	SPECIFIC GRAVITY	% BaSO ₄
MDDH - 58					
7289		81.0-88.0	7.0	3.296	42.44
7290		88.0-91.5	3.5	3.612	61.61
7291		91.5-95.0	3.5	3.207	36.35
7292		95.0-99.0	4.0	3.269	40.62
7293		99.0-102.0	3.0	3.279	41.30
7294		102.0-105.8	3.8	3.249	39.26
7295		105.8-109.8	4.0	3.276	41.10
7296		109.8-113.0	3.2	3.398	49.01
7297		113.0-118.0	5.0	3.303	42.90
7298		118.0-120.0	2.0	2.994	20.33
7299		120.0-124.5	4.5	3.471	53.49
7300		124.5-128.5	4.0	3.388	48.39
7301		128.5-133.0	4.5	3.501	55.27
7302		133.0-137.5	4.5	2.987	19.76
7303		137.5-142.8	<u>5.3</u>	2.888	11.47
		TOTAL	61.8		
		Weighted Average		3.274	40.98
		Composit		3.292	

45.23

15.35

Barite Intervals for MH-58

<u>Sample</u>	<u>Footage</u>	<u>%BaSO4</u>	<u>Specific Gravity</u>
7289	81.0-88.0		
7290	88.0-91.5		
7292	91.5-95.0		
7293	95.0-99.0		
7294	99.0-102.0		
7295	102.0-105.8		
7296	105.8-109.8		
7297	109.8-113.0		
7298	113.0-118.0		
7299	118.0-120.0		
7300	120.0-124.5		
7301	128.5-133.0		
8102	133.0-137.5		
8103	137.5-142.8		

INTEROFFICE MEMORANDUM

TO: Bruce Templeton

DATE: October 31, 1978

FROM: Ferryl C. Gale

SUBJECT: Core Samples from
MH-58

CC: File

<u>Sample No.</u>	<u>Footage</u>	<u>Specific Gravity</u>	<u>%Barite</u>
7289	81.0 - 88.0		
7290	88.0 - 91.5		
7291	91.5 - 95.0		
7292	95.0 - 99.0		
7293	99.0 - 102.0		
7294	102.0 - 105.8		
7295	105.8 - 109.8		
7296	109.8 - 113.0		
7297	113.0 - 118.0		
7298	118.0 - 120.0		
7299	120.0 - 124.5		
7300	124.5 - 128.5		
7301	128.5 - 133.0		
8102	133.0 - 137.5		
8103	137.5 - 142.8		

FCG:il

