

Drill Hole No. MH-70

Date: Feb. 1979

Bearing: N.20°E. Inclination: 55°N.

Drilled By: Boyles Bro. Wade Betts, Ricky Deaton  
Bill Vest & Terry Bowe

Coordinates: North 627,750.56 East 1,452,675.0

Logged By: Ferryl C. Gale

Elevation: 989.87

Total Depth: 609.0

DEPTH		%	SAMPLE	SAMPLE	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO	RECOVERY	NUMBER	INTERVAL	Sp. Gr.	BoSO <sub>4</sub>		
				Tro	Pari	Survey		
					Dip	AZ	+8	Corrected AZ
				Surface	55°N	-	-	N.20°E.
				95.0	54°N	N11°E.	+8	N.19°E.
				185.0	53°N	N14°E.	+8	N.22°E.
				295.0	51°N	N15°E.	+8	N.23°E.
				395.0	55°N	N30°E.	+8	N.38°E.
				495.0	66°N	N18°E.	+8	N.26°E.
				595.0	58°N	N10°E.	+8	N.18°E.
0.0	12.0							Set casing (no core recovery) Set Casing with level wall bit.
12.0	17.0							Novaculite boulder in talus shape.
17.0	22.0							Sandstone highly weathered, to tan color.
22.0	30.0							Sandstone with interbedded black and gray shale lamina. Bedding dip at 27.0 ft. is 83°S.
30.0	42.0							Lithology as above, shear zone 32.0' to 34.0'.
42.0	52.0							Light gray sandstone, 48.0-50.0 dark gray due to presence of graptolite.
52.0	62.0							Lithology as above, at 57.0-58.0 qtz. and calcite

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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>		
								vein, also slicken sides (minor movement)
								limonite in fractures).
62.0	74.0							Light gray sandstone, well cemented, high
								R.Q.D. fine grained.
74.0	86.0							As above, bedding dip at 82.0 ft. is 89°S.
86.0	98.0							As above.
98.0	108.0							Lithology as above, highly broken 103.0
								to 107.0 ft.
108.0	119.0							Sandstone as above.
119.0	130.0							As above, high R.Q.D.
130.0	141.0							As above, " "
141.0	151.0							As above, high R.Q.D., plus qtz. and calcite
								vein 0.2 in length. Bedding dip at 150.5 is 86°S.
151.0	163.0							Sandstone interbedded with gray and black
								sandy shales.
163.0	174.0							Interbedded gray sandstone with black and gray
								sandy contorted bedded from soft sediment defor-
								mation. Laminated pyrite lining fractures, occas-
								ional lamina of sandy black shale.
174.0	185.0							Light gray sandstone, high R.Q.D.

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DEPTH		%	SAMPLE	SAMPLE	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO	RECOVERY	NUMBER	INTERVAL	Sp. Gr.	BaSO <sub>4</sub>		
185.0	195.5							Light gray sandstone, high R.Q.D.
195.5	207.5							Sandstone as above, bedding dip at 205.0' is 80°
207.5	219.0							Sandstone as above, high R.Q.D.
219.0	231.0							Sandstone as above, occasional lamina of sandy black shale.
231.0	242.0							Light gray, fine grained, sandstone, High R.Q.D.
242.0	252.0							Sandstone as before, with occasional wisps of black shale. Bedding dip at 250.0 ft. is 89°S.
252.0	263.0							Sandstone, high R.Q.D.
263.0	274.0							" " "
274.0	285.0							As above, (numerous qtz. veinlets 283.0-285.0)
285.0	297.0							Sandstone as above, high R.Q.D. Numerous qtz. and calcite veinlets locally wisps of black shale.
297.0	307.0							Sandstone, (299.0-300.0 highly broken and fractured)
307.0	318.0							As above, bedding dip at 315.0 is 88°N. locally lamina of black shale.
318.0	329.0							As above.
329.0	340.0							As above, bedding dip at 333.0 is 89°S.

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DEPTH		%	SAMPLE	SAMPLE	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO	RECOVERY	NUMBER	INTERVAL	Sp. Gr.	BaSO <sub>4</sub>		
340.0	353.0							As above, plus occasional qtz. and calcite veinlets.
353.0	362.0							Light gray sandstone, high R.Q.D.
362.0	374.0							Light gray sandstone, high R.Q.D.
374.0	385.0							Light gray sandstone, high R.Q.D. plus at 380.0 strong qtz. veinlets.
385.0	396.5							As above.
396.5	407.0							Sandstone, occasional shale lamina, contorted bedding. High R.Q.D.
407.0	418.0							As before, high R.Q.D.
418.0	429.0							As above.
429.0	440.0							Light gray sandstone, qtz. vein at 430.0
440.0	451.0							Sandstone, high R.Q.D.
451.0	462.0							As above.
462.0	473.0							As above.
473.0	484.0							Sandstone with abundant wisps of black shale.
484.0	495.0							As before, (Brecciation and qtz. filled fractures 489.5'-490.5')
495.0	506.0							As above, sandstone interbedded black shale and sandstone lenses.

## DRILL HOLE LOG

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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>		
506.0	518.0							Interbedded black shale and sandstone lenses.
518.0	522.5							Sandstone as before.
522.5	529.0		7324					Barite zone, medium grade, approx. 50%
								BaSO <sub>4</sub> , (abundant calcite very finely crystalline,
								barite fine grained in host rock of gray shales.
								Bedding dip at 524.0 is 88°S.
529.0	533.8		7325					Light gray fine grained sandstone abundant
								qtz. and calcite tension filled fractures.
533.8	536.3		7326					Barite zone, very poor grade approx. 5% BaSO <sub>4</sub> .
536.3	540.0		7327					Barite zone, poor grade, approx. 20% BaSO <sub>4</sub>
								locally nodular.
540.0	542.5		7328					Barite zone, medium to high grade, approx.
								55% BaSO <sub>4</sub> , large angular nodules of barite.
542.5	544.0		7329					Barite zone, medium grade 45% BaSO <sub>4</sub> .
544.0	550.0		7330					Barite zone, high grade approx. 60% BaSO <sub>4</sub> ,
								very contorted texture, nodule locally and some
								what massive barite.
550.0	556.0		7331					Barite zone, medium grade, approx. 50% BaSO <sub>4</sub> ,
								nodular to massive in gray shale.
556.0	560.0		7332					Barite zone, medium grade, approx. 50% BaSO <sub>4</sub> ,

Barite nodules in black shale.



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FROM	TO	RECOVERY	NUMBER	INTERVAL	Sp. Gr.	BaSO <sub>4</sub>		
560.0	565.0		7335					Barite zone, low grade, scattered nodules in black sandy shale.
565.0	572.0		7334					Barite zone, low grade large scattered barite nodules.
572.0	583.0							Black sandy shale, highly fractured and broken.
583.0	592.0							As above, high broken.
592.0	597.0							Black sandstone, carbon rich high R.Q.D.
597.0	603.0							Black shale, highly fractured.
603.0	605.0							Black shale.
605.0	609.0							Light gray sandstone (gradational contact between sandstone and novaculite. Novaculite appears to be recrystalized sandstone.
								Hole bottomed on Novaculite
								Total depth 609.0 ft.

**FANCY HILL DIAMOND DRILL HOLES**  
**INDIVIDUAL CORE ANALYSIS BY INTERVALS**

SAMPLE	LOG #	DEPTH	INTERVAL	SPECIFIC GRAVITY	% BaSO <sub>4</sub>
MH-70					
7324		522.5-525.0	7.0	3.544	57.77
7325		525-529.6	4.6	3.629	62.55
7326		533.8-536.3	2.5	3.395	48.83
7327		536.3-540	3.7	3.610	61.50
7328		540-542.5	2.5	3.679	65.25
7329		542.5-544	1.5	3.470	53.43
7330		544-550	6.0	3.622	62.16
7331		550-556	6.0	3.491	54.68
7332		556-560	4.0	3.252	39.47
7333		560-565	5.0	2.978	19.03
7334		565-572	7.0	2.903	12.76
		Total	54.0		
		Weighted Average		3.338	45.18

## Barite Intervals for MII-70

<u>Sample</u>	<u>Footage</u>	<u>%BaSO<sub>4</sub></u>	<u>Specific Gravity</u>
7324	522.5-525.0		
7325	525.0-529.6		
7326	533.8-536.3		
7327	536.3-540.0	*Approx.	
7328	540.0-542.5		
7329	542.5-544.0		
7330	544.0-550.0		
7331	550.0-556.0		
7332	556.0-560.0		
7333	560.0-565.0		
7334	565.0-572.0		