

Drill Hole No. MH-68 "Center Pit"
 Bearing: N30°E. Inclination: 55°N.
 Coordinates: North 627,645.40 East 1,452,948.31
 Elevation: 984.17

Date: January, 1979
 Drilled By: Boyles Brothers, Vest, Bone, Betts, Deato
 Logged By: Ferryl C. Gale
 Total Depth: 534.0'

DEPTH		%	SAMPLE	SAMPLE	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO	RECOVERY	NUMBER	INTERVAL	Sp. Gr.	BaSO ₄		
								Acid Test Survey
								Dip Bearing
							Surface	55°N N30°E.
							130	56°N "
							230	55°N "
							330	55°N "
							430	54°N "
							534	51°N "
0.0	15.0							Set Casing (No core recovery)
15.0	20.0							Colluvium material, novaculite and soil
20.0	21.0							Drill through novaculite boulder
21.0	24.0							Light gray sandstone, highly broken and highly weathered.
24.0	28.0							Interbedded sandstone and shales also 24.0-26.0 novaculite fragments.
28.0	30.5							Sandstone highly weathered abundant limonite in fractures, highly broken.
30.5	45.0							Black shale, highly broken sheared. (4.0ft. core loss in this interval.) Bedding dip at 32.0 ft is 82°N.

DRILL HOLE LOG

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FROM	TO	RECOVERY	NUMBER	INTERVAL	Sp. Gr.	BaSO ₄		
45.0	45.5							Fault associated interval, gouge broken fragments.
45.5	55.0							Light gray fine grained sandstone, high RQD
55.0	66.5							As above (fault 66.0-66.5)
66.5	77.0							" "
77.0	87.5							Sandstone with occasional black shale lamina.
								Bedding dip at 83.0 ft. is 89°S.
87.5	99.0							As above, minor fault 98.0 to 99.0
99.0	110.0							As above. Bedding dip at 104.0 ft. is 89°S.
110.0	121.0							Sandstone, high R.Q.D. Occasional qtz filled
								tention fractures.
121.0	132.0							Sandstone and shale qtz filled tention fractures.
								Bedding dip at 126.0 ft. 86°N.
132.0	142.0							Sandstone interbedded shale lamina, at 140.0
								strong qtz. filled tention fracture.
142.0	153.0							Sandstone, interbedded shale lamina. Bedding
								dip at 151.0 ft. is 87°S.
153.0	164.0							As above dominately sandstone.
164.0	175.5							As above, bedding dip at 169.0 is 85°S
175.5	187.0							As above, bedding dip at 188.0 ft. is 88°N.

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FROM	TO	RECOVERY	NUMBER	INTERVAL	Sp. Gr.	BeSO ₄	
187.0	197.0						Sandstone, high R.Q.D.
197.0	207.0						As above, locally shaley, bedding dip at 199.0 ft
							is 87° N.
207.0	220.0						Sandstone.
220.0	231.0						Sandstone with wisps of black shale, and
							occasional lamina of Black shale.
231.0	243.0						Sandstone, high R.Q.D.
243.0	255.0						As above, plus thin lamina of black shale.
							Bedding dip at 253.0 fts. is 89° N.
255.0	264.0						As above.
264.0	275.0						As above, bedding dip at 274.0 ft. is 89° N.
275.0	286.0						As above.
286.0	297.0						As above, plus thin lamina of black shale.
							Bedding dip at 298 ft. is 89° S.
297.0	307.5						As above, bedding dip at 302 ft. is 89° S
307.5	319.0						Black shale with lenses of sandstone, bedding
							dip at 319.0 is 85° S.
319.0	330.0						As above, bedding dip at 324 ft. is 89° S
330.0	342.0						Sandstone as previous (shearing 339.0-340.0)
342.0	352.0						Sandstone, high R.Q.D.

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FROM	TO				Sp. Gr.	BaSO ₄		
352.0	364.0							Sandstone, high R.Q.D.
364.0	374.0							" " "
374.0	385.0							Sandstone as above, high R.Q.D.
385.0	396.0							" " " " "
396.0	408.0							Sandstone, occasional lenses of black shale
								at 397.0 large blebs of marcasite. Bedding dip
								at 397.0 is 84°S.
408.0	418.0							Sandstone, high R.Q.D.
418.0	430.0							As above plus numerous qtz. and calcite
								filled veinlets.
430.0	441.0							As above.
441.0	451.5							As above, bedding dip at 443.0 ft. is 85°S.
451.0	464.4							Sandstone, high R.Q.D.
464.4	468.4		8151	4.0'				Barite zone, low grade, approximately 30%
								BaSO ₄ , bedding dip at 466.0 is 88°S.
468.4	472.8		7302	4.4'				Barite zone, medium grade approx. 50% BaSO ₄
472.8	476.8		7303	4.0'				Barite zone, low grade, 20% BaSO ₄
476.8	479.5		7304	2.7'				Barite zone, medium grade 60% BaSO ₄ , bedding dip
								478.0 is 89°S.
479.0	483.2		7305	3.7'				Barite zone, low grade scattered nodules in

black shale, 20% BaSO₄.

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FROM	TO				Sp. Gr.	BaSO ₄		
483.2	487.0		7306	3.8				Barite zone, medium grade 55% BaSO ₄ , massive to nodular, nodules are angular in shape. Bedding dip at 484.0 ft. is 86°S.
487.0	491.0		7307	4.0				Barite zone, high grade 70% BaSO ₄ , massive to nodular.
491.0	493.4		7308	2.4				Barite zone, medium grade, 50% BaSO ₄ nodules in black shale.
493.4	496.0							Black shale, bedding dip at 494.0 ft. is 86°N.
496.0	508.0							Interbedded gray and black sandy shales. Bedding dip at 500.0 ft. is 86°N.
508.0	522.0							As above.
522.0	531.0							As above dominately black sandy shale.
531.0	533.6							Light gray fine uniform grained sandstone.
533.6	534.0							Arkansas Novaculite - The contact between the sandstone and novaculite is gradational in nature. The novaculite seems to be recemented sandstone.
				Nole bottomed on Novaculite				
				Total Depth	534.0 ft.			

FANCY HILL - DIAMOND DRILL HOLES - PHASE I

INDIVIDUAL CORE ANALYSES BY INTERVALS

SAMPLE	LOG #	DEPTH	INTERVAL	SPECIFIC GRAVITY	% BaSO ₄
MH-68					
8151		464.4-468.4	4.0	3.529	56.91
7302		468.4-472.8	4.4	3.946	78.54
7303		472.8-476.8	4.0	3.695	66.10
7304		476.8-479.5	2.7	3.942	78.35
7305		479.5-483.2	3.7	3.471	53.49
7306		483.2-487.0	3.8	3.623	62.22
7307		487.0-491.0	4.0	3.328	44.54
7308		491.0-493.4	2.4	3.004	21.13
		Total	29.0		
		Weighted Average		3.587	60.24
Bottom 11.1' core 627.9/4.66 1,453 103.77 550.26					

Barite Intervals for MII-68

<u>Sample</u>	<u>Footage</u>	<u>%BaSO4</u>	<u>Specific Gravity</u>
8151	464.4-468.4		
7302	468.4-472.8		
7303	472.8-476.8		
7304	476.8-479.5		
7305	479.5-483.2		
7306	483.2-487.0		
7307	487.0-491.0		
7308	491.0-493.4		