

Drill Hole No. MH-68 "Center Pit"

 Date: January, 1979

 Bearing: N30°E. Inclination: 55°N.

 Drilled By: Boyles Brothers, Vest, Bone, Betts, Deato

 Coordinates: North 627,645.40 East 1,452,948.31

 Logged By: Ferryl C. Gale

 Elevation: 984.17

 Total Depth: 534.0'

DEPTH		% RECOVERY	SAMPLE NUMBER	SAMPLE INTERVAL	ANALYSES		DESCRIPTION OF MATERIAL DRILLED
FROM	TO				Sp. Gr.	BaSO <sub>4</sub>	
							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						Collvium 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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Drilled By: \_\_\_\_\_

Coordinates: North \_\_\_\_\_ East \_\_\_\_\_

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

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

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

DEPTH		% RECOVERY	SAMPLE NUMBER	SAMPLE INTERVAL	ANALYSES		DESCRIPTION OF MATERIAL DRILLED
FROM	TO				Sp. Gr.	BeSO <sub>4</sub>	
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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Drilled By: \_\_\_\_\_

Coordinates: North \_\_\_\_\_ East \_\_\_\_\_

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

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

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

DEPTH		% RECOVERY	SAMPLE NUMBER	SAMPLE INTERVAL	ANALYSES		DESCRIPTION OF MATERIAL DRILLED
FROM	TO				Sp. Gr.	BaSO <sub>4</sub>	
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 <sub>4</sub> , bedding dip at 466.0 is 88°S.
468.4	472.8		7302	4.4'			Barite zone, medium grade approx. 50% BaSO <sub>4</sub>
472.8	476.8		7303	4.0'			Barite zone, low grade, 20% BaSO <sub>4</sub>
476.8	479.5		7304	2.7'			Barite zone, medium grade 60% BaSO <sub>4</sub> , bedding dip at 478.0 is 89°S.
479.0	483.2		7305	3.7'			Barite zone, low grade scattered nodules in

 black shale, 20% BaSO<sub>4</sub>.

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

Coordinates: North \_\_\_\_\_ East \_\_\_\_\_

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

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

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

DEPTH		% RECOVERY	SAMPLE NUMBER	SAMPLE INTERVAL	ANALYSES		DESCRIPTION OF MATERIAL DRILLED
FROM	TO				Sp. Gr.	BaSO <sub>4</sub>	
483.2	487.0		7306	3.8			Barite zone, medium grade 55% BaSO <sub>4</sub> , 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 <sub>4</sub> , massive to nodular.
491.0	493.4		7308	2.4			Barite zone, medium grade, 50% BaSO <sub>4</sub> 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.
							Note 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 <sub>4</sub>
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
		627,914.66	1,453	103.77	550.26

## Barite Intervals for MII-68

<u>Sample</u>	<u>Footage</u>	<u>%BaSO<sub>4</sub></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		