

DRILL HOLE RECORD

 Drill Hole No.: MH-40 Inclination: _____

 Date: June 1978

Property: _____

 Drilled By: Boyles Bro. Ralph Jex

 Co-ordinates: North 628, 147.49 East 1,452, 001.06

 Logged By: Ferryll C. Gale

 Elevation: 1032.16

 Total Depth: T.D. 407.0'

Bearing N 32° E Inclination: 45°N.

DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO4	Cond.	
0.0	17.0						Set casing, no sample recovery.
17.0	27.0						Sandstone, highly weathered tan color, occasional wisps of black shale, bedding dip at 18' is 89°N. Highly broken, heavy limonite staining.
27.0	33.0						Sandstone as above, highly broken, heavy limonite staining, highly weathered, bedding dip at 28' is 85°N. (1.0' core loss).
33.0	43.5						Sandstone as before, highly broken 6.0' core loss, bedding dip at 33.5' is parallel w/ hole or 45°N, Bedding dip at 40.0' is 85°S. Faulted zone, slicken side.
43.5	45.3						Lt. gray sandstone w/ occasional wisp of black shale.
45.3	55.0						Lt. gray sandstone as above, well cemented, fine grained, very competent. Bedding dip at 50' is 68°N.
55.0	67.2						Sandstone, occasional fracture filled w/ heavy limonite staining.
67.2	78.0						Sandstone as before, scattered lamina of

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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
							black shale. Bedding dip at 74' is 87°S.
78.0	89.0						As above, Bedding dip at 88' is 87°S.
89.0	100.0						As above,
100.0	110.0						As above, bedding dip at 108.5 is 88°S.
110.0	122.0						As above, (highly broken from 113.0-120.0
							sheared & slicken sides) Bedding dip at 111.5
							is 88°S.
122.0	132.0						Gray sandstone, at 131.5 fracture filled
							w/ well formed qtz crystals, well cemented.
132.0	143.0						As above, bedding dip at 133.0' is 86°S.
143.0	154.0						Sandstone as before. Bedding dip 151' is 87°S.
154.0	164.5						Sandstone as before.
164.5	175.4						As above, Bedding dip at 169.3 is 86°S.
175.4	186.6						Lt. gray sandstone, very competent. Bedding
							dip at 183.8 is 86°S.
186.6	196.8						Sandstone as above, bedding dip at 190.0'
							is 85°S.
196.8	207.9						Sandstone as above, numerous wisps of black
							shale, scattered veinlets of qtz. Bedding dip
							at 202 is 89°S.

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FROM	TO			Sp. Gr.	BaSO4	Cond.	
207.9	219.0						As above, bedding dip at 214' is 85°S.
219.0	229.0						Interbedded gray sandstone & black shale, numerous qtz veinlets, (highly fractured, & sheared from 220.0 to 226.0)
229.0	241.0						Lithology as above. Bedding dip 240' is 85°S.
241.0	252.0						Lt. gray sandstone, locally darker gray, Bedding dip at 248.0' is 87°S.
252.0	266.0						Sandstone as above, (highly fractured, broken & sheared. Fault zone 253.5-266.0.
266.0	274.1						Sandstone as before.
274.1	285.1						Sandstone as before, Bedding dip at 284' is 78°N.
285.1	296.2						Sandstone as before, well cemented, very competent, one piece when taken out of core tube was 4.6' long. Bedding dip at 289.0' is 70°S.
296.2	307.5						As above, highly fractured from 302.0 to 305.0 slicken sides.
307.5	314.1						As above, locally very dark sandstone, bedding dip at 311.0' is 89°N.

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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
314.1	334.0						As above, bedding dip at 327' is 87°N.
334.0	339.0						Black shale, bedding dip at 335.0' is 86°S.
339.0	341.3		2869				Barite zone, small nodular barite in black shale, nodules are elongated w/ bedding plane, Bedding dip at 389' is 87°S.
341.3	347.0		2870				Barite zone, med grade approx 40% BaSO ₄ , Bedding dip at 343' is 86°S.
347.0	351.0		2871				Barite zone, med grade approx 50% BaSO ₄ , Bedding dip at 350' is 88°S. Small nodules in black shale.
351.0	353.0						Black shale, no nodules.
353.0	355.0		2872				Barite zone, low grade, 20% BaSO ₄ , scattered nodules of barite in gray shale.
355.0	361.0		2873				Barite zone, low grade 20% BaSO ₄ , as above, Bedding dip at 257.0 is 88°S.
361.0	363.0		2874				Barite zone, low grade, 10% very scattered large barite nodules. Bedding dip at 363' is 89°S.
363.0	367.0		2875				Barite zone, low grade approx 5% BaSO ₄ , very scattered barite nodules in black shale, Bedding dip at 365' is 89°S.

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FROM	TO			Sp. Gr.	BaSO4	Cond.	
367.0	374.0						Interbedded black & gray shale. Bedding dip at 373' is 88°S.
374.0	387.0						Black shale, (highly fractured 381.0-387.0 scattered qtz & calcite veinlets, Bedding dip at 377.0' is 85°N.
387.0	396.9						Black shale, (highly fracture 387.0-396.9) 392.0-393.0 boulder of novaculite caught in breccia, 393.0 black shale that has been highly weathered & leached & bleached to greenish gray shales, (395.0-396.7 strong qtz & calcite stringers) This area his been sheared & slicken sides are present? No doubt fault zone.
396.9	405.5						Lt. gray fine & med grained sandstone, well cemented very competent.
405.5	406.8						Gray shale, Bedding at 405.6 is 86°N.
406.8	407.0						Arkansas Novaculite, cherty & well cemented.
			T.D.	407.0	Bottomed on	Novaculite.	

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Logged By: _____

Elevation: _____

Total Depth: _____

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Bottom hole wood 628,416.37 1,452,161.62

772.99

FANCY HILL - DIAMOND DRILL HOLES
INDIVIDUAL CORE ANALYSES BY INTERVALS

SAMPLE	LOG #	DEPTH	INTERVAL	A.P. SPECIFIC GRAVITY	CALCULATED % BaSO ₄
MDDH 40					
2869	4000	339-341.3	2.3	3.065	25.92
2870	4001	341.3-347	5.7	3.119	30.00
2871	4002	347-351	4.0	3.190	35.15
2872	4003	352-355	3.0	2.832	6.53
2873	4004	355-361	6.0	2.874	10.25
2874	4005	361-363	2.0	2.898	12.33
2875	4006	363-367	4.0	2.864	9.38
		Total	27.0		
		Weighted Average		2.98	19.56