

Drill Hole No. MH-87 Fancy Hill

Date: 4-4-79

Bearing: N. 25° E. Inclination: 45° N.

Drilled By: Boyles Brothers

Coordinates: North 628,884.52 East 1,450,091.45

Logged By: Ferryll C. Gale

Elevation: 1,103.26

Total Depth: 377.0 ft. BX core

DEPTH		%	SAMPLE	SAMPLE	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO	RECOVERY	NUMBER	INTERVAL	Sp. Gr.	BaSO ₄		
					Bearing			Dip
				Surface	N. 25° N.			45° N.
				80.0	N. 18° E.			44° N.
				157.0	N. 25° E.			43° N.
				257.0	N. 26° E.			42° N.
				330.0	N. 25° E.			49° N.
				377.0	N. 25° E.			53° N.
				Total depth 377.0 ft.				
				Tro Pari Survey				
0.0	10.0							Set casing, tan high leached and weathered sandstone.
10.0	20.0							Highly weathered sandstone, fine grained, strong limonite staining in fractures.
20.0	33.0							Sandstone with occasional wisps of black shale.
33.0	40.0							Bedding is 88° S. as above.
40.0	52.0							As above, occasional qtz. veinlets.
52.0	64.0							Sandstone as before 54-58 scattered and occasionally black shale lamina. Bedding dip is 87° S.
64.0	78.0							Sandstone as before.
78.0	90.0							Interbedded black shale and gray sandstone.
90.0	105.0							As above.

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FROM	TO	RECOVERY	NUMBER	INTERVAL	Sp. Gr.	BaSO ₄		
105.0	117.0							Sandstone as before occasional lens of black shale.
117.0	130.0							Sandstone with scattered wisps of black shale occasional
								qtz. and calcite veinlets.
130.0	143.0							Sandstone as before, numerous qtz filled veinlets,
								moderately fractured.
143.0	155.0							Black shale with thin lamina of sandstone.
155.0	168.0							Sandstone as before with veinlets of qtz.
168.0	190.0							Interbedded black shales and gray sandstone, bedding
								dip is 83 S.
190.0	203.0							Gray fine grained sandstone well cemented, High R.Q.D.
								minor fractures filled with qtz. and calcite.
203.0	215.0							Sandstone as above.
215.0	228.0							Sandstone with occasional black shale lamina.
228.0	240.0							Heavy carbon influence on gray sandstones.
240.0	255.0							Light gray sandstone.
255.0	268.0							Sandstone as before.
268.0	280.0							Sandstone as before, bedding dip is 84 S.
280.0	293.0							Interbedded black shale and sandstone.
293.0	299.0							Black shales.
299.0	305.0		7434		3.11	29.327		Barite zone, low grade, nodular barite in black shales.

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FROM	TO	RECOVERY	NUMBER	INTERVAL	Sp. Gr.	BaSO ₄	
305.0	311.0		7435		3.182	34.583	Barite zone, low grade as above.
311.0	315.0		7436		3.068	26.147	Barite zone, low grade as above.
315.0	327.3						Interbedded gray and black shales.
327.3	334.0		7437		3.642	63.257	Barite zone, high grade laminated with black shale and occasional massive barite.
334.0	343.4		7438		3.662	64.341	Barite zone, high grade as before.
343.0	350.0						Interbedded black shale and gray shale.
350.0	350.2		7439		3.366	46.993	Barite zone, medium grade
350.2	353.8						Black shale no barite
353.8	354.0		7440		3.324	44.281	Barite zone, medium grade a 7.0' core loss between 350.0 and 357.0
354.0	355.0						Black shale.
355.0	357.5		7441		3.801	71.555	Barite zone, high grade massive barite.
357.5	361.0		7442		3.141	31.62	Barite zone, low grade nodular barite in black and gray shale.
361.0	362.5						Black shales.
352.5	363.0		7443		2.995	20.408	Barite zone, low grade.
363.0	366.2						Black shale, no barite
366.2	367.2		7444		2.878	10.602	Barite zone, low grade
367.2	375.0						Black and gray shales

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FANCY HILL DIAMOND DRILL HOLES
INDIVIDUAL CORE ANALYSIS BY INTERVALS

SAMPLE	LOG #	DEPTH	INTERVAL	SPECIFIC GRAVITY	% BaSO4
MH-87					
7434		299-305	6.0	3.110	29.327
7435		305-311	6.0	3.182	34.583
7436		311-315	4.0	3.068	26.147
7437		327.3-334	6.7	3.642	63.257
7438		334-343.4	9.4	3.662	64.341
7439		350.0-350.2	0.2	3.366	46.993
7440		353.8-354	0.2	3.324	44.281
7441		355-357.5	2.5	3.801	71.555
7442		367.5-361	3.5	3.141	31.620
7443		362.5-363	0.5	2.995	20.408
7444		366.2-367.2	1.0	2.878	10.602
		Total	40.0		
		Weighted Average		3.376	47.66

Barite Intervals for MH-87

<u>Sample</u>	<u>Footage</u>	<u>%BaSO4</u>	<u>Specific Gravity</u>
7434	299.0-305.0		
7435	305.0-311.0		
7436	311.0-315.0		
7437	327.3-334.0		
7438	334.0-343.4		
7439	350.0-350.2	} 7' Lost Core	
7440	353.8-354.0		
7441	355.0-357.5		
7442	357.5-361.0		
7443	362.5-363.0		
7444	366.2-367.2		