

DRILL HOLE RECORD

Drill Hole No. MH-113 Inclination: 23°N

Date: 6/13/78

Property: Fancy Hill

Drilled By: Boyles Bros. Bob Kesty

Co-ordinates: North 127,834.56 East 1,452,704.55

Logged By: Ferryl C. Gale

Elevation: 1017.10

Total Depth: T.D. 258.0

Bearing N. 20 E.

DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO4	Cond.	
0.0	20.0						No sample recovery, case to 20.0 ft.
20.0	24.0						Tan sandstone, highly weathered sandstone, limonite in fractures.
24.0	33.0						Tan sandstone, highly broken 7.0' core loss. 32.0-33.0 gouge & sandstone fragments.
33.0	43.0						Tan sandstone, highly broken 6.8' core loss, heavy limonite staining along fractures.
43.0	45.0						Same as before.
45.0	50.0						Sandstone, highly weathered, very broken, interbedded dark gray shale. Gouge zone 48.0-50.0 w/ 1.0' core loss.
50.0	60.0						Gray sandstone w/ interbedded gray shales. Locally sandstone has been highly bleached by ground water, (Faulted & sheared 52.5-53.5) 2.0' core loss.
60.0	70.0						Gray sandstone, locally well cemented, fractures filled w/ limonite staining. (Highly sheared 61.4-70.0) 5.0' core loss.
70.0	80.7						Gray sandstone, gouge locally, interbedded gray shale, locally highly broken & sheared, 5.2' core loss.

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DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
80.7	86.0						Gray sandstone, w/ occasional qtz veinlets. Sheared & highly broken 83.6-86.0 w/ 1.0' core loss.
86.0	92.4						Gray sandstone as above w/ occasional wisps of black shale.
92.4	103.1						Gray sandstone w/ occasional wisps & lamina of black shale. Moderately fractured w/ limonite staining filling fractures.
103.1	115.2						Interbedded gray sandstone w/ wisps & lamina of black shale. Fault & shear zone (111.8-113.0) 1.0' core loss.
115.2	122.0						Interbedded gray sandstone & black shale lamina. Occasional qtz filled fracture.
122.0	131.0						Sandstone as before somewhat decomposed & friable. Gouge zone 126.0-130.0 w/ 4.0' core loss.
131.0	143.0						Sandstone as before w/ wisps & lamina of black shale (Fault slicken sides strong qtz stringer 140.6-142.0) Bedding dip 60°S.
143.0	155.0						Sandstone as above (shear & fault zone 152.0-

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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
							Bedding dip 65°S. some nodules have random orientation, Host black shale.
220.0	224.0		2845	4.0'			Barite zone, medium grade, approx 50% BaSO ₄ . Host rock black shale. Bedding dip 89°S.
224.0	228.0		2846				Barite zone, med. grade approx. 40% BaSO ₄ , locally higher grade zone, banded appearance, host rock black shale. Bedding dip 89°S.
228.0	231.6		2847				Barite zone, low grade, 20% BaSO ₄ , large scattered nodules.
231.6	236.7		2848				Barite zone, low grade 10% BaSO ₄ , occasional large barite nodule in gray & black shale. Bedding dip 82°S.
236.7	239.1						Gray shale. Bedding dip 89°N.
239.1	240.4		2849				Barite zone, interbedded gray & black shales. Low grade approx 10% BaSO ₄ . Bedding dip 89°S.
240.4	242.8						Interbedded gray & black shale. Bedding dip 89°S.
242.8	254.1						Interbedded gray & black shales. Bedding dip 89°S.
254.1	255.3						Shale as above. Bedding dip 86°N.

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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
							153.8 1.0' core loss, highly broken)
155.0	165.0						Sandstone as above. Bedding dip 75°S.
165.0	178.0						Sandstone as above, locally dark gray color, occasional qtz veinlets, (173.0-174.0 highly broken & sheared).
178.0	186.5						Interbedded black & gray shales & gray sandstone. Thinly laminated, gnarled bedding locally. Bedding dip 89°S.
186.0	197.5						(Shear zone 181.0-182.0) Gray sandstone w/ wisps & lamina of black shale. Bedding dip 192' is 89°S.
197.5	206.6						Sandstone as above.
206.6	211.0						Black shale, well cemented, competent, occasional thin lamina of dark gray sandstone.
211.0	213.8		2843	2.8'			Barite zone, low grade, approximately 20% BaSO ₄ .
213.8	214.0						Gouge zone, gray clay, very friable, fragmented.
214.0	220.0		2844	6.0'			Barite zone, med. grade approx 40% BaSO ₄ , generally small nodules aligned along bedding plane, occasionally large nodules.

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FROM	TO			Sp. Gr.	BaSO4	Cond.	
255.3	258.0						Arkansas Novaculite at contact 0.1' of gray clay gouge. Novaculite gray & white chert, fractured, fractured filled w/ marcasite.
		T.D.	258.0	Bottomed on Novaculite.			
				Tro-Pari Survey:			
				Dip	AZ		Corrected
			Surface	23°N	N20E		N 20 E
			60'	24°N	N12E + 8		N 20 E
			130'	25°N	N12E + 8		N 20 E
			200'	25°N	N14E + 8		N 22 E
			258'	25°N	N17E + 8		N 25 E.

Bottom Hole coords 628,054.30 1,452,790.22 909.01

FANCY HILL - DIAMOND DRILL HOLES - PHASE II

INDIVIDUAL CORE ANALYSES BY INTERVALS

SAMPLE	LOG #	DEPTH	INTERVAL	A.P. SPECIFIC GRAVITY	CALCULATED % BaSO ₄
MH-113					
#1	2843	211-213.8	2.8	3.414	50.01
-	-	213.8-214	0.2	2.761	0.00
#2	2844	214-220	6.0	3.280	41.37
-	-	220-220.3	0.3	2.761	0.00
#3	2845	220.3-224	3.7	3.291	42.10
-	-	224-224.6	0.6	2.761	0.00
#4	2846	224.6-228	3.4	3.006	21.29
#5	2847	228-231.6	3.6	2.955	17.14
#6	2848	231.6-236.7	5.1	2.885	11.21
-	-	236.7-239.1	2.4	2.761	0.00
#7	2849	239.1-240.4	<u>1.3</u>	2.840	7.24
		TOTAL	29.40		
COMPOSITE		CALCULATED		3.073	26.53

42.17

12.44