

DRILL HOLE LOG

Drill Hole No. Novaculite #3

Date: 3/8/78

Bearing: _____ Inclination: 45°N

Drilled By: Boyles Bro. Ralph Jex
Jim McCall

Coordinates: North _____ East _____

Logged By: Ferryl C. Gale

Elevation: _____

Total Depth: T.D. 179.0'

DEPTH		% RECOVERY	SAMPLE NUMBER	SAMPLE INTERVAL	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO				Sp. Gr.	BaSO ₄		
0.0	12.0							Black & gray shales; highly altered to clays, oxidized zone, locally very broken, (indicative of colluvium 0.0-2.0)
12.0	18.1							Shales, locally gray, locally black, highly altered to clays locally.
18.1	23.0		2803	4.9'				Barite zone, medium grade approx 50% Barite, elongated nodules along bedding plane, highly broken.
23.0	28.0		2804	5.0'				Barite zone, med. grade approx 60% BaSO ₄ , bleached locally, massive barite to nodular along bedding plane.
28.0	33.0		2805	5.0'				Barite zone, med grade approx 50% BaSO ₄ , scattered nodules of barite in highly altered black shale.
33.0	37.2		2806	4.2'				Barite zone, high grade, approx 70% Barite, nodular and bedded barite interbedded w/ thin lamina of black shale.
37.2	43.0	2.3'	2807	4.8'				Barite zone; med to high grade approx 60% barite, nodular & bedded barite interbedded w/ thin lamina of black shales, recovery 2.3/4.8'

Drill Hole No. Novaculite #3.

Date: _____

Bearing: _____ Inclination: _____

Drilled By: _____

Coordinates: North _____ East _____

Logged By: _____

Elevation: _____

Total Depth: _____

DEPTH		%	SAMPLE	SAMPLE	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO	RECOVERY	NUMBER	INTERVAL	Sp. Gr.	BaSO ₄		
43.0	44.5		2808					Barite zone; low grade approx 30%, large scattered barite nodules, med pyrite filling fractures.
44.5	57.5							Black shales, highly altered to clay, gouge; crumbly.
57.5	61.5		2809					Barite zone; med grade barite, approx 40% nodular barite interbedded w/ black shales, locally gray shales.
61.5	67.0		2810					Barite zone as above, med grade approx. 40%
67.0	69.0		2811					Barite zone, med to low grade approx 30%, altered bleached to clay w/ scattered nodules of barite.
69.0	77.5							Black shales, locally bleached to gray shales, gouge locally.
77.5	80.0							Same as above.
80.0	88.0							Arkansas Novaculite. Broken w/ occasional mud seams to 0.5', soft. Heavily pyritted at contact
88.0	96.0							Hard, massive, no mud seams.
96.0	101.0							Novaculite-soft, broken w/ shale layers to 0.5'.

Drill Hole No. Novaculite #3

Date: _____

Bearing: _____ Inclination: _____

Drilled By: _____

Coordinates: North _____ East _____

Logged By: _____

Elevation: _____

Total Depth: _____

DEPTH		%	SAMPLE	SAMPLE	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO	RECOVERY	NUMBER	INTERVAL	Sp. Gr.	BaSO ₄		
101.0	106.0							Hard, massive. Poss. artesian flow at 106'.
106.0	109.0							Novaculite, dense, finely fractured, mainly rehealed
109.0	110.5							Fractures show as thin black lines.
110.5	113.0							Joints, very rough. Some Fe staining. Mainly to core axis.
113.0	114.0							Limonite staining on fractures.
114.0	115.5							Same as above
115.5	117.2							Novaculite, dense, cherty, abundant limonite staining in fractures. Bleached locally.
117.2	118.4							Very bleached novaculite.
118.4	119.0							Fault gouge zone, referred to as "triple E"; light weight locally. Highly leached.
119.0	123.6							Heavy limonite staining. Very light weight due to leaching.
123.6	133.5							Novaculite as before, highly bleached & leached.
133.5	135.5							As above
135.5	139.0							Locally dense novaculite, otherwise highly bleached & leached, vuggy & porous.
139.0	143.3							Locally dense novaculite, otherwise leached, vuggy & porous.

Total Depth: _____

10/77

FANCY HILL - DIAMOND DRILL HOLES
INDIVIDUAL CORE ANALYSES BY INTERVALS

SAMPLE	LOG #	DEPTH	INTERVAL	A.P. SPECIFIC GRAVITY	CALCULATED % BaSO ₄
Nov #3					
2803	2100	18.4-23.0	4.6	3.342	45.45
2804	2101	23.0-28.0	5.0	3.415	50.07
2805	2102	28.0-33.0	5.0	3.038	23.82
2806	2103	33.0-37.2	4.2	3.409	49.70
2807	2104	37.2-43.0	5.8	3.492	54.74
2808	2105	43.0-44.5	1.5	3.016	22.09
2809	2106	57.5-61.5	4.0	3.486	54.38
2810	2107	61.5-67.0	5.5	3.244	38.92
2811	2108	67.0-69.0	2.0	2.885	11.21
		Total	37.6		
		Weighted Average		3.306	43.07✓