

DRILL HOLE RECORD

Drill Hole No.: MDDH-5 Inclination: 64° N20EDate: Started 9/27/1976, completed 10/4/1976Property: Fancy HillDrilled By: Sprague & Henwood - Bill Deininger

Co-ordinates: North _____ East _____

Logged By: Les Farrington

Elevation: _____

Total Depth: 230'

DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO4	Cond.	
							Interbedded sandstone, sandy shale, shale, and claystone. Sandstone is fine grained, micaceous, and lt. gray to dk. gray in color. Med. to dk. gray sandy shale and dk. gray to black shale lenses are thinly laminated (<.01'). Shale lenses (generally less than .05' wide) are irregularly spaced except as otherwise noted. Disseminated pyrite is pervasive in most members and is observed in heavy concentrations locally along bedding planes, between contacts, and surrounding or comprising nodules within the members. Barite partially to completely replaces carbon (?) rich spherical and vermicular nodules (ana .05' diam.) and nodular lenses (generally .01' - .05' wide) within the sandy shale and shale members (mostly within the sandy shales). Barite, massive in texture is observed locally in widths exceeding 1'. Lower estimated percentages generally reflect larger amounts of unreplaced sandy shale/shale for the interval.
NOTE: 5/12/77 MINERAL REFERRED TO AS SCORODITE IS CHLORITE							
TERM "CARBON" IS INCLUSIONS IN OR DISCOLORATION OF CRYSTALLINE MATERIAL							

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MINERAL DIVISION

FANCY HILL, ARKANSAS

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DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO4	Cond.	
0.0	4.0						Closely spaced, heavily iron stained fractures.
4.0	9.5	40%		2.2'			Lt. - med. gray sandstone containing irregularly spaced black shale lenses (ama .2' wide). Sandstone locally stained orange by iron oxides.
							Closely spaced, heavily iron stained fractures.
9.5	12.0	23%		.6'			Lt. - med. gray sandstone containing irregularly spaced black shale lenses (ama .1' wide). Sandstone locally stained orange by iron oxides.
							Closely spaced, heavily iron stained fractures.
12.0	16.0	75%		3.0'			Lt. - med. gray sandstone, locally stained orange by iron oxides.
							Closely spaced, heavily iron stained fractures.
16.0	22.0	53%		1.7'			Lt. gray sandstone, stained orange by iron oxides.
							Closely spaced, heavily iron stained, quartz filled fractures.
				1.5'			Lt. gray, sandy shale (very friable) containing

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FROM	TO			Sp. Gr.	BaSO4	Cond.	
16.0	22.0						irregularly spaced black shale lenses (ama .02' wide)
22.0	28.0	97%		.5'			Lt. gray sandstone containing irregularly spaced black shale lenses (ama .02' wide).
				5.3'			Med. gray sandstone. Fresh pyrite.
							Closely spaced fractures, some filled with quartz and pyrite.
28.0	37.0	24%		.5'			Med. gray sandstone (very friable).
				1.7'			Med. gray sandstone containing irregularly spaced black shale lenses (ama .03' wide).
							Closely spaced, carbon filled fractures.
37.0	40.0	67%		2.0'			Med. gray sandstone containing irregularly spaced dk. gray to black shale lenses (ama .01' wide).
							Very friable.
							.5' interval with very closely spaced, carbon and quartz filled fractures.

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FROM	TO			Sp. Gr.	BaSO4	Cond.	
40.0	44.0	63%					Lt. to med. gray sandstone; very friable 41.5 on.
							Very closely spaced, carbon filled fractures
							40 - 40.5. Closely spaced, quartz, pyrite,
							scorodite (?) filled fractures.
44.0	49.0	96%		2.0'			Med. gray sandstone.
				2.8'			Med. gray sandstone containing irregularly spaced
							black shale lenses (ama .01' wide). Very friable
							47 - 49.
							Very closely to closely spaced, barite, pyrite,
							and/or carbon filled fractures 44.5 - 47.5,
							fractures show slickensides. Very closely spaced
							carbon filled fractures 46.5 - 49.
49.0	57.0	94%		.2'			Med. gray sandstone containing black shale lenses
							(ama .02' wide).
				7.3'			Med. gray sandstone mottled with lt. gray lenses.
							Closely spaced, carbon filled fractures, very
							closely spaced 49 - 51, 52.5 - 53.5.
							Closely spaced, barite and pyrite filled fractures

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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
49.0	57.0						51.0 - 54.0. Closely spaced, quartz filled fractures 53.0 - 56.5.
57.0	66.0	99%		8.9'			Med. gray sandstone mottled with lt. gray lenses; containing irregularly spaced black shale clasts (more highly concentrated 57.0 - 57.5). Very friable 58.0 - 58.5, 62.5 - 63.0. Closely spaced, barite and pyrite filled fractures, 60.5 - 65.0, very closely spaced 57.0 - 57.5. Closely spaced, carbon filled fractures, 59.0 - 60.0, very closely spaced 57.0 - 58.0, 63.5 - 64.0. Slickensides at 60.0.
66.0	70.0	100%		4.0'			Medium gray sandstone mottled with lt. gray lenses; containing isolated clasts of black shale (<.01') Closely spaced, barite and pyrite filled fractures, 66.0 - 68.5. Very closely spaced, carbon filled fractures, 66.0 - 68.5. Very closely spaced, yellow partings ^{fractures} (<.01' wide) containing limonite stained clay &/or barite 67.0 - 68.5.

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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
70.0	74.0	100%		.7'			Dk. gray sandy shale with interbedded lenses med. gray sandstone and black shale (ama .08' wide).
				3.3'			Med. gray sandstone mottled with lt. gray lenses; containing isolated clasts of black shale.
							Barite and pyrite filled fracture at 71.0. Closely spaced, carbon filled fractures 70.5 - 74.0.
74.0	79.0	70%		3.5'			Med. gray sandstone mottled with minor lt. gray lenses.
							Very closely spaced, carbon and pyrite filled fractures 74.0 - 75.5.
79.0	83.0	100%		4.0'			Med. gray sandstone mottled with lt. gray lenses; containing isolated clasts (ama .02') of black shale.
							Very closely spaced, pyrite and barite filled fractures 79.0 - 80.0. Slickensides at 79.5.
							Closely spaced, carbon filled fractures 79.0 - 83.0 very closely spaced 80.0 - 80.5.

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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
83.0	88.0	100%		5.0'			Med. gray sandstone mottled with lt. gray lenses; contains irregularly spaced clasts (ama .01') of black shale.
							Closely spaced carbon filled fractures 83.0 - 88.0.
							Closely spaced, barite and pyrite filled fractures 83.5 - 86.0.
							Core very broken 86.5 - 88.0.
88.0	97.5	96%		.2'			Med. gray sandstone mottled with lt. gray lenses; contains irregularly spaced clasts of black shale.
				5.5'			Med. to dk. gray sandstone mottled with lt. gray lenses with interbedded black shale lenses (ama .15' wide). High concentrations of pyrite along bedding planes.
							Closely spaced, barite and pyrite filled fractures 92.0 - 93.5. Slickensides at 92.0. Very closely spaced, yellow ^{FRACTURES} partings (<.01' wide) containing limonite stained ^{BARITE} clay 89.0 - 89.5.
				3.5'			Med. gray sandstone mottled by lt. gray lenses; contains sporadic black shale clasts (<.01').

Very friable 96.0 - 97.5.

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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
88.0	97.5						Closely spaced, carbon filled fractures 93.5 - 96.0. Closely spaced, barite filled fractures 94.0 - 95.5.
97.5	101.0	100%		.3'			Med. gray sandstone mottled by lt. gray lenses; contains sporadic black shale clasts (.01').
				3.2'			Med. to dk. gray sandstone with interbedded dk. gray sandy shale (ama .4' wide) and black shale (ama .06' wide) lenses. High concentrations of pyrite along bedding planes.
							Core very friable and broken 99.5 - 101.0.
							Very closely spaced, carbon filled fractures 97.5 - 98.0.
101.0	106.0	100%		5.0'			Med. to dk. gray sandstone with interbedded dk. gray sandy shale (ama .4' wide) and black shale (ama .1' wide) lenses and clasts. High concentrations of pyrite along bedding planes.
							Very closely spaced, yellow ^{fracture} partings (.01' wide) containing limonite stained ^{barite} clay 105.5 - 106.0.

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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
106.0	115.0	100%		7.5'			Med. to dk. gray sandstone with interbedded dk. gray sandy shale (ama .5' wide) and black shale (ama .14' wide) lenses and clasts. High concentrations of pyrite along bedding planes. Very closely spaced, barite filled fractures 110.0 - 111.0.
							Very closely spaced, yellow ^{fractures} partings (<.01' wide) containing limonite stained ^{barite} clay 106.0 - 107.5.
				1.5'			Med gray sandstone mottled by lt. gray lenses. Core very friable and broken.
115.0	125.0	100%		5.5'			Med gray sandstone mottled by lt. gray lenses. Contains sporadic clasts of black shale (ama .02') and spherical and enlongate, pyrite rich concretions (ama .02'). Very closely spaced, barite and pyrite filled fractures 117.0 - 119.0.
				4.5'			Med. gray sandstone mottled by lt. gray lenses with irregularly spaced, interbedded dk. gray, sandy shale and black shale lenses (ama .15' wide)

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FROM	TO			Sp. Gr.	BaSO4	Cond.	
115.0	125.0						Contains spherical and enlongate, pyrite rich concretions (ama .05').
							Very closely spaced, barite and pyrite filled fractures 123.5 - 125.0. Carbon filled fracture at 122.5.
125.0	133.0	95%		7.6'			Med. gray sandstone mottled by lt. gray lenses with sporadic lenses and clasts (ama .3' wide) of black shale. Locally heavy concentrations of pyrite along contacts and bedding planes. Contains isolated, pyrite rich concretions (ama .02').
							Very friable 131.5 - 132.5.
							Very closely spaced, barite filled fractures 125.0 - 126.0, 128.5 - 129.5.
133.0	137.0	100%		4.0'			Med. to dk. gray sandstone with interbedded, irregularly spaced, dk. gray sandy shale and black shale lenses (ama .2' wide). Contains spherical and enlongate, pyrite rich concretions (ama .03'). Locally heavy concentrations of pyrite along bedding planes.

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FROM	TO			Sp. Gr.	BaSO4	Cond.	
137.0	147.0	100%		7.0'			Med. to dk. gray sandstone with interbedded lenses dk. gray sandy shale (ama .4' wide) and lenses and clasts of black shale (ama .1' wide). Locally heavy concentrations of pyrite along bedding (pyrite disseminated heavily in lenses ama .05' wide). Pyrite rich, spherical and elongate concretions (ama .02').
							Spherical and vermicular, carbon rich concretions (ama .04') at 138.0, partially replaced by barite (2%) at 143.0)
				3.0'			Dk. gray sandy shale with interbedded lenses med. to dk. gray sandstone and black shale. Locally heavy concentrations of pyrite along bedding and disseminated.
							Vermicular, carbon rich concretions (ama .05'), partially replaced by barite (2%).
							Barite filled fractures at 141.5 and 145.0.
147.0	154.0	100%		7.0'			Dk. gray sandy shale with interbedded lenses med. to dk. gray sandstone and black shale. Pyrite

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DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
147.0	154.0						rich, spherical and enlongate concretions (ama .02'). Core very broken.
							Spherical and vermicular concretions (ama .05') and nodular lenses (ama .02' wide) partially replaced by barite (ama 15%).
							Very closely spaced, barite filled fractures 149.5 - 150.0. Unmineralized fractures at 149.0, 153.0.
154.0	160.0	100%		4.5'			Dk. gray to black sandy shale with interbedded lenses black shale.
							Spherical and vermicular concretions (ama .04') and nodular lenses (ama .02' wide) partially replaced by barite (ama 5%).
							Very closely spaced, unmineralized fractures 155.0 - 155.5.
				1.5'			Dk. gray sandy shale with interbedded lenses med. to dk. gray and black shale. Contains spherical, carbon rich concretions (ama .04'). Core friable and broken.

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FROM	TO			Sp. Gr.	BaSO4	Cond.	
160.0	167.0	100%		1.2'			Dk. gray sandy shale with interbedded lenses med. to dk. gray and black shale. Contains carbon and/or pyrite rich, spherical and enlongate concretions (ama .02').
							Barite and pyrite filled fracture at 160.0.
				3.3'			Dk. gray sandy shale with interbedded lenses med. to dk. gray and black shale and narrow lenses (.01') lt. to med gray sandstone. Banded appearance.
				2.5'			Med. gray sandstone containing sporadic lenses and irregular clasts (ama .02') of black shale.
							Core friable and broken 165.0 - 166.5.
							Very closely spaced, unmineralized fractures 165.0 - 165.5.
167.0	176.0	100%		.5'			Med. gray sandstone containing irregular clasts (ama .05') of black shale.
				1.5'			Dk. gray sandy shale with interbedded black shale lenses.
				7.0'			Med. to dk. gray sandstone containing irregular clasts (ama .05') of black shale; has narrow

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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
167.0	176.0						($<.01'$ - $.05'$) interbedded lenses lt. gray sand- stone/claystone, med. to dk. gray sandy shale, and black shale. Banded appearance. Contains carbon rich concretions ($.01'$) 174.0 - 176.0. Barite and pyrite filled fracture at 171.5; offset in bedding along fracture of about $.01'$. Very closely spaced, barite filled fractures 183.0 - 183.5. Closely to very closely spaced unmineralize fractures 170.5 - 172.0. Core very broken 173.5 - 176.0.
176.0	184.0	91%		.5'			Med. gray claystone. Core loss interval (?). 6.8' Barite replacing spherical and vermicular con- cretions and nodular lenses in interbedded med. to dk. gray sandy shale and black shale. 177.8 - 178.6 25-30% 178.6 - 179.8 55-60% 179.8 - 179.9 shale 179.9 - 180.2 55-60%

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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
176.0	184.0						180.2 - 181.4 50-55%
							181.4 - 181.7 20-25%
							181.7 - 182.5 80-85%
							182.5 - 183.1 40-45%
							183.1 - 184.0 30-35%
							Very closely spaced, barite crystal lined fractures
							181.5 - 182.5, 183.5 - 184.0. Very closely spaced,
							unmineralized fractures 181.5 - 182.0.
							Core friable and broken 182.5 - 184.0.
184.0	191.5	100%		7.5'			Barite replacing spherical and vermicular con-
							cretions and nodular lenses in interbedded med.
							to dk. gray sandy shale and black shale.
							184.0 - 184.9 35-40%
							184.9 - 187.6 50-55%
							187.6 - 188.0 30-35%
							188.0 - 190.1 50-55%
							190.1 - 191.0 25-30%
							191.0 - 191.5 45-50%
							Unmineralized fractures at 187.5, 188.5. Closely

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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
184.0	191.5						spaced, barite crystal lined fractures 184.0 - 188.5.
191.5	199.5	40%		2.0'			Barite replacing spherical and vermicular concretions and nodular lenses in interbedded med. to dk. gray sandy shale and black shale.
							191.5 - 192.4 60-65%
							192.4 - 195.0 core loss (?)
							195.0 - 196.1 50-55%
				1.0'			Dk. gray to black claystone.
				.2'			Barite replacing spherical and vermicular concretions and nodular lenses in interbedded med. to dk. gray sandy shale and black shale. 30-35%.
							Very closely spaced barite crystal lined fractures 191.5 - 192.5, 195.0 - 196.0.
199.5	206.0	85%		2.5'			Black claystone with clasts of lt. gray claystone. Locally heavy concentrations of pyrite.
				.8'			Med. to dk. gray claystone, heavily disseminated with pyrite.

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199.5	206.0			2.2'			Barite replacing spherical and vermicular concretions and nodular lenses in interbedded med. to dk. gray sandy shale and black shale. Locally heavy concentrations of pyrite along bedding planes.
							203.8 - 204.7 40-45%
							204.7 - 205.3 30-35%
							205.3 - 206.0 50-55%
							Closely to very closely spaced, barite crystal lined fractures 204.0 - 205.5.
206.0	210.0	100%		3.8'			Barite replacing spherical and vermicular concretions and nodular lenses in interbedded med. to dk. gray sandy shale and black shale.
							206.0 - 206.9 50-55%
							206.9 - 207.1 65-70%
							207.1 - 207.2 sandy shale with disseminated FeS ₂
							207.2 - 208.4 65-70%
							208.4 - 208.6 shale
							208.6 - 209.8 45-50%

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206.0	210.0						Very closely spaced, barite crystal lined fractures
							206.0 - 206.5, 208.5 - 209.0.
				.2'			Med. to dk. gray sandy shale with lenses (ama .02')
							black shale. Pyrite locally heavily disseminated.
210.0	214.5	100%		.7'			Med. to dk. gray sandy shale with lenses
							black shale. Pyrite locally heavily disseminated.
				3.8'			Barite replacing spherical and vermicular con-
							cretions and nodular lenses in interbedded med.
							to dk. gray sandy shale and black shale.
							210.7 - 211.1 25-30%
							211.1 - 212.2 65-70%
							212.2 - 212.5 45-50%
							212.5 - 214.5 40-45%
							Very closely spaced barite, pyrite, and/or carbon
							filled fractures 210.5 - 213.5. Fracture at 211.5
							sub-parallel to bedding shows slickensides.
214.5	221.5	100%		7.0'			Barite replacing spherical and vermicular con-
							cretions and nodular lenses in interbedded med.

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214.5	221.5						to dk. gray sandy shale and black shale. Locally heavy concentrations of pyrite along bedding planes
							214.5 - 214.7 30-35%
							214.7 - 215.0 shale
							215.0 - 215.8 30-35%
							215.8 - 216.2 shale and sandy shale
							216.2 - 217.9 35-40%
							217.9 - 218.4 shale and sandy shale
							218.4 - 218.7 15-20%, pyrite rimming concretions
							218.7 - 221.3 shale and sandy shale
							221.3 - 221.5 10-15%
							Barite crystal lined fracture at 217.0. Unmineralized fractures, very closely spaced, 219.5 -
							220.5.
							Carbon and/or pyrite rich concretions 219.0 -
							220.5. Core crumbles easily 215.5 - 217.0.
221.5	226.5	84%		4.2'			Interbedded dk. gray and black shale containing spherical and vermicular nodules partially replaced by barite.

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DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
221.5	226.5						221.5 - 221.9 10-15%
							221.9 - 222.1 shale
							222.1 - 222.5 10-15%
							222.5 - 223.3 shale
							222.3 - 225.0 core loss interval (?)
							225.0 - 225.9 10-15%
							Very closely spaced, unmineralized fractures 226.0
							- 226.5.
226.5	230.0	83%		.3'			Dk. gray shale
				2.5'			Black shale
							Very closely spaced, unmineralized fractures 227.5
							- 229.0
				.2'			Black and white chert containing disseminated
							pyrite.
							TroPari survey at 216' 64°
							explanation; fractures
							very closely spaced = <1'
							closely spaced = 1' - 3'

moderately closely spaced = >3'

note: Mineralized fractures generally sealed, unmineralized fractures open.

SAMPLE	LOG #	DEPTH	INTERVAL	S.P. SPECIFIC GRAVITY	CALCULATED % BaSO ₄
MDDH-5					
#1	639	177.8-180.8	3.00	3.59	60.38
#2	641	180.8-183.8	3.00	3.76	69.48
#3	642	183.8-186.9	3.10	3.77	69.99
#4	643	186.9-189.9	3.00	3.66	64.23
#5	644	189.9-192.9	3.00	3.77	69.99
#6	645	192.9-196.0	3.10	3.55	58.12
#7	646	196.0-199.0	3.00	3.55	58.12
#8	647	199.0-202.0	3.00	2.93	15.06
#9	648	202.0-205.1	3.10	3.45	52.22
#10	649	205.1-208.1	3.00	3.89	75.90
#11	650	208.1-211.1	3.00	3.54	57.54
#12	651	211.1-214.2	3.10	4.15	87.54
#13	652	214.2-217.2	3.10	3.55	58.12
#14	653	217.2-217.9	.70	3.59	60.38
#1A		* 217.9-218.9	1.00	2.96	17.56
#2A		* 18.9-225.9	<u>7.00</u>	2.93	15.06
		TOTAL	48.20		
COMPOSITE	637	MEASURED		3.66	59.4
COMPOSITE		CALCULATED		3.51	55.95
* Not included in composite measured.					