



MINERAL DIVISION

FANCY HILL, ARKANSAS

DRILL HOLE RECORD

Drill Hole No.: MDDH-7 Inclination: 63 N30EDate: Started 2/3/1977, completed 2/16/1977Property: Fancy HillDrilled By: Sprague & Henwood - Joe Halaburda

Co-ordinates: North _____ East _____

Logged By: Les Farrington

Elevation: _____

Total Depth: 201.5'

DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO4	Cond.	
0.0	5.0	6%		.2'			Alluvium; chert. Estimate alluvium to 2.5'.
				.1'			Lt. yellow to dk. orange clays.
5.0	10.5	43%		2.4'			Sandy shale with med. gray shale lenses, both
							largely altered to clays. Sandy shale locally
							stained dk. orange by iron oxides.
							Very closely spaced, sealed, heavily iron oxide
							stained fractures.
10.5	17.0	15%		1.0'			Weathered sandstone, locally stained dk. orange
							by iron oxides.
							Heavily iron oxide stained fractures.
17.0	22.5	27%		1.5'			Sandstone, locally stained orange/pink by iron
							oxides, with dk. gray shale lenses (max. .07'
							wide). Shale largely altered to clays.
22.5	33.5	16%		1.0'			Sandstone, locally stained dk. orange/pink by
							iron oxides.
							Very closely spaced, sealed, iron oxide stained/

NOTE: MINERAL REFERRED TO AS SCORODITE IS CHLORITE

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DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
22.5	33.5						carbon filled fractures.
				.7'			Very sandy shale, stained orange by iron oxides,
							with lenses and clasts (ama .05' wide) med. and
							dk. gray shale, both largely altered to clays.
33.5	43.5	32%		.5'			Sandy shale, locally stained orange by iron
							oxides, with dk. gray and black shale lenses
							and clasts (ama .03' wide), both largely altered
							to clays.
				1.9'			Sandstone, locally stained orange/pink by iron
							oxides.
							Very closely spaced, sealed, iron oxide stained
							fractures.
				.2'			Lt. and dk. gray clays (fault gouge (?)).
				.5'			Dk. pink sandstone containing manganese oxide
							and peacock green iron oxide stained vein type
							quartz (vein at least .1' wide).
				.1'			Lt. and dk. gray clays.
43.5	53.5	9%		.9'			Dk. gray sandstone. Very friable.

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DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
53.5	57.0	100%		3.5'			Med. gray sandstone, locally very friable, with scattered lenses and clasts (ama .02' wide) dk. gray sandy shale.
							Closely to very closely spaced, unmineralized fractures. Very closely spaced, sealed, carbon filled fractures. Open, carbon and barite coated fracture at 55.0.
57.0	65.5	86%		2.5'			Medium gray sandstone. Friable.
							Closely to very closely spaced, unmineralized fractures. Locally very closely spaced, sealed, carbon filled fractures.
				4.8'			Med. to dk. gray, very sandy shale, locally gradational to sandstone, with lenses and clasts (ama .1' wide) dk. gray and black shale. Locally core friable and broken. Isolated pyrite filled nodules (ama .01' diam.).
							Closely to very closely spaced, open and sealed, carbon filled fractures. Locally offsets in bedding along fractures ama .01'. Locally very

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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
57.0	65.5						closely spaced, sealed, barite filled fractures.
65.5	67.5	100%		2.0'			Lt. to med. gray sandstone, locally very friable with lenses and clasts (ama .08' wide) dk. gray and black shale.
							Locally very closely spaced, sealed, carbon filled fractures.
67.5	74.0	94%		6.2'			Med. gray sandstone, mottled by lt. gray lenses, friable, with lenses and clasts (ama .08' wide) black shale.
							Closely to very closely spaced, sealed and open, carbon/carbon and barite/barite filled fractures
74.0	82.5	92%		4.2'			Black shales with med. to dk. gray sandy shale lenses (ama .15' wide). Locally ama 2-4% pyrite, between contacts/along bedding planes/ lenses (ama .01' wide).
				2.4'			Med. and dk. gray sandy shales with dk. gray and black shale lenses and clasts (ama .04'

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FROM	TO			Sp. Gr.	BaSO4	Cond.	
82.5	92.0						86.0 - 86.4 3-5%
							86.4 - 87.6
							87.6 - 88.5 25-35%
							88.5 - 88.8 1-3%
							88.8 - 88.9 10-15%
							88.9 - 89.3 3-5%
							89.3 - 89.5
							89.5 - 89.7 5-8%
							89.7 - 89.9 2-3%
							89.9 - 90.2 5-15%
							90.2 - 90.9 <1%
							90.9 - 91.0 2-4%
							91.0 - 91.3
							91.3 - 91.9 5-15%
							91.9 - 92.0
							Closely to very closely spaced, open and sealed,
							barite/barite and pyrite filled fractures.
92.0	96.5	100%		4.5'			Dk. gray and black shales with dk. gray sandy
							shale lenses (ana. .07" wide). Lenses contain



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DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
92.0	96.5						barite nodules (ama .02' diam.) and nodular lenses (ama .01' wide). Locally ama 1-2% pyrite nodules (<.01' diam.)/disseminated/along bedding planes.
							92.0 - 92.2 10-20%
							92.2 - 92.7
							92.7 - 92.9 3-6%
							92.9 - 93.3 5-15%
							93.3 - 93.4
							93.4 - 93.6 5-15%
							93.6 - 94.3 10-20%
							94.3 - 94.6
							94.6 - 94.9 3-6%
							94.9 - 95.2 25-30%
							95.2 - 95.3 2-4%
							95.3 - 95.9
							95.9 - 96.1 25-30%
							96.1 - 96.2 2-3%
							96.2 - 96.4 20-30%
							96.4 - 96.6

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DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
96.5	103.0	64%		4.2'			Dk. gray and black shales containing barite nodules (average .03' diam.). Locally some barite pyrite, disseminated/rimming nodules along bedding planes.
Slipped 2.6' core, recovered 0'							
							96.6 - 97.1 1-2%
							97.1 - 97.5 30-35%
							97.5 - 97.9 15-25%
							97.9 - 98.1 <1%
							98.1 - 98.4 3-6%
							98.4 - 98.8 <2%
							98.8 - 99.4 10-20%
							99.4 - 99.6 3-6%
							99.6 - 99.8 10-20%
							99.8 - 99.9 25-35%
							99.9 - 100.2 4-8%
							100.2 - 100.4 <3%
							100.4 - 100.5
							100.5 - 100.7 <3%
							100.7 - 103.0 cuttings lt. gray, probably contained some barite.

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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
103.0	105.0	0					Cuttings lt. gray, probably contained some barite.
Hole caved; grouted inner tube in core barrel, ground core away.							
105.0	106.5	87%		1.3'			Interbedded med. to dk. gray and black shales containing barite nodules (ama .02' diam.) and nodular lenses (<.01' wide).
							.1' 5-15%
							.2' 20-30%
							.4' 5-10%
							.1' 25-35%
							.5' 2-5%
106.5	108.0	67%		1.0'			Med. gray shale with black shale lenses. Scattered barite nodules (ama .04' diam.).
							1.0' <5%
							Unmineralized fracture.
108.0	109.5	100%		1.5'			Interbedded med. and dk. gray shales with lenses

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FROM	TO			Sp. Gr.	BaSO4	Cond.	
108.0	109.5						(ama .1' wide) med. gray sandy shale and lenses (ama .02' wide) lt. gray sandy shale. Banded appearance. Isolated, carbon rich nodules (ama .01' diam.).
109.5	112.0	100%		.2'			Med. gray very sandy shale with black shale lenses (ama .03' wide).
				2.3'			Med. to dk. gray, very sandy shale, mottled by lt. gray lenses.
							Very closely spaced, mostly sealed, carbon/carbon and barite filled fractures.
112.0	112.5	80%		.4'			Med. gray shale containing locally ama 5-10% nodules (ama .01' diam.) partially replaced by barite.
112.5	114.0	100%		1.5'			Med. and dk. gray sandy shale with dk. gray and black shale lenses (ama .13' wide) and lt. gray very sandy shale lenses (ama .05' wide). Banded appearance. Isolated nodules (ama .01' diam.)

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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
112.5	114.0						partially replaced by barite.
114.0	118.0	100%		4.0'			Med. and dk. gray sandy shales with dk. gray and black shale lenses (ama .09' wide) and lt. gray, very sandy shale lenses (ama .01' wide). Banded appearance. Locally lenses contain ama 10-20% carbon rich nodules (ama .01' diam.) partially replaced by barite. Locally ama 2-4% pyrite, between contacts/disseminated/along bedding planes. Very closely spaced, mostly sealed, barite/carbon, barite, and pyrite/carbon/carbon and pyrite filled fractures. Offsets in bedding along fractures ama .03' 114.5 - 117.5.
118.0	121.0	100%		.6			Med. and dk. gray sandy shales with dk. gray and black shale and lt. gray very sandy shale lense
				2.4'			Barite nodules (ama .02' diam.) and nodular lenses (ama .03' wide) in dk. gray and black shales with med. gray sandy shale lenses (ama

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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
118.0	121.0						.12' wide). Core locally very friable and broken.
							118.6 - 118.8 3-8%
							118.8 - 119.0 25-35%
							119.0 - 119.6 5-10%
							119.6 - 119.9 20-25%
							119.9 - 120.0 55-65%
							120.0 - 120.5 15-25%
							120.5 - 120.7 5-10%
							120.7 - 120.9 15-25%
							120.9 - 121.1 60-70%
121.0	126.0	100%		5.0'			Barite nodules (ama .03' diam.) and nodular lenses (ama .03' wide) in dk. gray and black shales with med. to dk. gray sandy shale lenses (ama .18' wide). Locally ama 1-2% pyrite, disseminated/between contacts/along bedding planes
							Core locally very friable and broken.
							121.1 - 121.4 55-65%
							121.4 - 121.8 20-25%

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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
121.0	126.0						121.8 - 122.3 25-35%
							122.3 - 122.6 15-20%
							122.6 - 122.7 50-60%
							122.7 - 122.8 shale
							122.8 - 123.1 45-55%
							123.1 - 123.4 3-5%
							123.4 - 124.2 10-20%
							124.2 - 124.7 30-40%
							124.7 - 125.5 5-10%
							125.5 - 125.7 10-20%
							125.7 - 125.8 <2%
							Locally very closely spaced, sealed, barite
							filled fractures. Open, carbon, barite, and
							pyrite coated fracture perpendicular to bedding
							123.5 - 126.0+. Barite content in core either
							side of fracture is dissimilar. Displacement
							(?) in bedding along fracture.
126.0	130.0	80%		3.2'			Barite nodules (ama .02' diam.) and nodular
							lenses (ama .01' wide) in med. to dk. gray

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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
126.0	130.0						sandy shale with dk. gray and black shale lenses (ama .32' wide). Locally ama 1-2% pyrite, dis- seminated/along bedding planes.
							.2' 5-15%
							.7' shales.
							.2' 55-65%
							.1' 10-20%
							.4' 45-55%
							.2' 25-35%
							.5' 30-40%
							.3' <2%
							core loss (?)
							.5' 45-55%
				<.1'			Lt. gray clay. Core loss.
							Locally very closely spaced, sealed, barite fill ed fractures.
130.0	130.5	60%		<.1'			Lt. gray clay. Core loss.
				.3'			Interbedded, lt. to med. to dk. gray clayey shales and med. gray sandy shale.

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DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
140.5	146.5						142.1 - 142.3 15-20%
							142.3 - 142.7 55-65%
							142.7 - 143.3 10-15%
							143.3 - 143.7 40-45%
							143.7 - 143.8 <5%
							143.8 - 144.2 35-45%
							144.2 - 145.2 30-40%
							145.2 - 145.5 20-30%
							145.5 - 146.3 30-35%
							Closely to very closely spaced, mostly sealed, barite crystal/barite filled fractures. Very closely spaced, sealed, barite and carbon filled fractures 142.0 - 146.5.
146.5	156.5	100%		10.0'			Barite nodules (ama .03' diam.) and nodular lenses (ama .00' wide) in med. to dk. gray sandy shale (gradational to sandstone 146.3 - 148.0) with dk. gray and black shale lenses (ama .1' wide). Locally ama 2-4% pyrite, disseminat- ed/between contacts/along bedding planes.

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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
156.5	162.5						159.3 - 159.4 5-15%
							159.4 - 159.5 40-50%
							159.5 - 159.7 20-30%
							159.7 - 160.0 5-10%
							160.0 - 160.3 35-45%
							160.3 - 160.5 10-20%
							160.5 - 160.9 25-35%
							160.9 - 161.0 15-25%
							161.0 - 161.2 50-60%
							161.2 - 161.4 5-10%
							161.4 - 161.5 30-40%
							161.5 - 161.7 5-15%
							161.7 - 162.1 20-30%
							162.1 - 162.3 black graphitic shale, core loss
							Moderately closely spaced, sealed and open,
							barite crystal lined fractures (mostly subpara-
							llal to bedding).
162.5	169.5	94%		.2'			Core loss
				.3'			Med. and dk. gray shales. 1-3% pyrite, dissem-

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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
162.5	169.5						166.8 - 167.1 30-40%
							167.1 - 167.4 15-25%
							167.4 - 167.6 50-60%
							167.6 - 167.7 40-50%
							167.7 - 168.1 5-10%
							168.1 - 168.3 shale
							168.3 - 168.5 15-25%
							168.5 - 168.6 <3%
							168.6 - 168.8 25-35%
							168.8 - 169.4 2-4%
							Closely to very closely spaced, mostly sealed, barite crystal lined fractures.
169.5	173.5	80%		.5'			Nodular lenses of barite (ama .03' wide) in med. to dk. gray sandy shales.
							.2' 50-60%
							.2' 5-10%
							.1' 25-35%
				1.3'			Med. to dk. gray, sandy clays. Core loss inter- val.

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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
169.5	173.5			1.4'			Dk. gray and black shales with med. to dk. gray sandy shale lenses (ama .05' wide). Locally lenses contain barite nodules (ama .02' diam.) and nodular lenses (ama .01' wide).
							172.2 - 172.3 5-10%
							172.3 - 172.4 40-50%
							172.4 - 172.6 <3%
							172.6 - 172.7
							172.7 - 172.9 5-10%
							172.9 - 173.2
							173.2 - 173.5 5-10%
173.5	179.0	76%		4.2'			Interbedded med. to dk. gray sandy shales and dk. gray to black shales. Locally lenses contain nodules (ama .03' diam.) partially to completely replaced by barite. Locally ama 2-4% pyrite, lenses (<.01' wide)/disseminated/between contacts/along bedding planes/rimming nodules. Locally core very friable and broken.
							.1' 5-10%



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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
173.5	179.0						.2' 3-5%
							1.0' friable sandy shale and shale. Core loss.
							.2'
							.1' 5-10%
							.1'
							.3' 3-5%
							.1' 5-15%
							.2'
							.3' 15-25%
							.5'
							.3' 10-20%
							.4' 1-3%
							.3'
							Moderately closely spaced, unmineralized fractures.
179.0	181.5	84%		2.1			Interbedded med. to dk. gray sandy shales, locally gradational to sandstone, and dk. gray and black shales. Locally lenses contain barite nodules (ama .02' diam.) and nodular

DRILL HOLE RECORD

 Drill Hole No.: MDDH-7 Inclination: _____

Date: _____

 Property: Fancy Hill

Drilled By: _____

Co-ordinates: North _____ East _____

Logged By: _____

Elevation: _____

Total Depth: _____

DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
179.0	181.5						lenses (ana .01' wide). Locally ana 1-3% pyrite, disseminated/between contacts/along bedding planes. Core locally very friable and broken.
							.2'
							.2' 5-15%
							.1'
							.1' 5-10%
							.2'
							.3' 5-10%
							.5'
							.1' 5-10%
							.3'
							.2' 10-20%
							Very closely spaced, unmineralized fractures
							181.0 - 181.5.
181.5	186.5	76%		3.3'			Interbedded med. to dk. gray and black sandy shales and med. to dk. gray and black shales.
							Lenses locally contain barite nodules (ana .03'

DRILL HOLE RECORD

 Drill Hole No.: MDDH-7 Inclination: _____

Date: _____

 Property: Fancy Hill

Drilled By: _____

Co-ordinates: North _____ East _____

Logged By: _____

Elevation: _____

Total Depth: _____

DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
181.5	186.5						diam.). Locally ama 2-4% pyrite, disseminated/ between contacts/rimming nodules/along bedding planes.
							181.5 - 181.8 10-20%
							181.8 - 182.5
							182.5 - 183.5 30-40%
							183.5 - 183.7 2-4%
							Closely to very closely spaced, open and sealed, unmineralized and barite filled fractures.
				.4'			Dk. gray sandy clays, very friable.
				.1'			Dk. gray shale.
186.5	190.5	88%		3.5'			Interbedded dk. gray and black clayey shales, locally gradational to claystone, and red. to dk. gray sandy shales. Locally lenses contain ama 20-30% carbon rich nodules (ama .04' diam.) partially to completely replaced by barite. Locally ama 2-4% pyrite, between contacts/dis- seminated/rimming nodules/along bedding planes. Core locally very friable and broken.

DRILL HOLE RECORD

 Drill Hole No.: MDDH-7 Inclination: _____

Date: _____

 Property: Fancy Hill

Drilled By: _____

Co-ordinates: North _____ East _____

Logged By: _____

Elevation: _____

Total Depth: _____

DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO4	Cond.	
186.5	190.5						2.3'
							.4' 5-10%, 20-30% nodules
							.8' <1%, ama 5-15% nodules
190.5	195.5	92%		4.6'			Interbedded dk. gray and black shales, locally clayey, with lenses (ama .11' wide) lt. to med. to dk. gray and black sandy shale. Locally lenses contain ama 5-10% carbon rich nodules (ama .01' diam.) partially replaced by barite. Locally ama 3-5% pyrite, disseminated/between contacts/along bedding planes.
							191.6 - 191.8 1%, 5-10% nodules.
							Moderately closely spaced, unmineralized fractures.
195.5	201.5	98%		5.8'			Interbedded lt. to med. to dk. gray and black shales, locally slightly sandy. Last 2.5' white to lt. gray and clayey with ama 10% carbon rich nodules (<< .01' diam.) locally. Locally ama 3-5% pyrite, lenses (ama .01' wide)/between

DRILL HOLE RECORD

Drill Hole No.: KDDH-7 Inclination:

Date: _____

Property: Fancy Hill

Drilled By: _____

Co-ordinates: North _____ East _____

Logged By: _____

Elevation: _____

Total Depth: _____

[illegible]

SAMPLE	LOG #	DEPTH	INTERVAL	CALCULATED SPECIFIC GRAVITY	X-RAY % BaSO ₄
MDDH-7					
#1	744	118.8-124.8	6.00	3.371	47.30
#2	745	124.8-130.8	6.00	3.335	45.00
#3	746	130.8-136.8	6.00	3.160	33.00
#4	747	136.8-142.8	6.00	3.699	66.30
#5	748	142.8-148.8	6.00	2.863	74.60
#6	749	148.8-154.8	6.00	3.513	56.00
#7	750	154.8-160.8	6.00	3.590	60.40
#8	751	160.8-166.8	6.00	3.470	53.40
#9	752	166.8-170.0	6.00	3.453	52.40
-	-	170.0-172.2	2.20	2.761	0.00
#1A		*83.9-85.5	1.60	2.859	8.97
#2A		*85.5-86.4	.90	3.272	40.83
#3A		*86.4-92.9	6.50	3.079	26.97
#4A		*92.9-96.9	4.00	3.242	38.79
#5A		*96.9-106.0	9.10	3.253	39.54
#6A		*106.0-107.5	1.50	2.841	7.33
-	-	107.5-112.0	4.50	2.761	0.00
#7A		*112.0-118.8	6.80	2.821	5.56
#8A		*172.2-182.5	10.30	3.048	24.63
#9A		182.5-183.5	1.00	3.311	43.41
#10A		183.5-189.2	5.70	2.921	14.27
#11A		*189.2-191.2	2.60	2.958	17.39
		TOTAL	110.70		
COMPOSITE	754	MEASURED		3.51	56.5
COMPOSITE		CALCULATED		3.250	39.34

*Not included in composite measured.