

DRILL HOLE RECORD

Drill Hole No.: 1DDH-6 Inclination: 71 N30E

Date: Started 2/16/1977 , completed 3/2/1977

Property: Fancy Hill

Drilled By: Sprague & Henwood - Joe Halaburda
Tom Graftler

Co-ordinates: North _____ East _____

Logged By: Les Farrington

Elevation: _____

Total Depth: 341'

DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO4	Cond.	
0.0	6.0	33%					Est. alluvium to 2.5'.
				2.0'			Dk. orange, iron stained clays.
6.0	11.0	2%		.1'			Lt. gray clays.
11.0	15.0	3%		.1'			Lt. gray clays.
15.0	22.5	31%		2.3'			Sandy shale, gradational to very sandy shale
							and locally stained dk. orange by iron oxides,
							with lenses (ama .07' wide) dk. gray shale.
							Both largely altered to clays.
							Sealed, iron stained fractures.
22.5	30.5	31%		1.8'			Sandy shale, gradational to very sandy shale
							and locally stained orange by iron oxides, with
							lenses (ama .25'+ wide) med. gray shale. Both
							largely altered to clays.
				.5'			Sandstone, stained dk. purple/orange by iron
							oxides. Friable.
							Fragments contain sealed, iron and manganese

NOTE: MINERAL REFERRED TO AS SCORODITE IS CHLORITE



MINERAL DIVISION

FANCY HILL, ARKANSAS

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Elevation: _____

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DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
22.5	30.5						oxide stained/carbon filled fractures.
30.5	37.5	79%		5.5'			Sandstone, locally stained dk. pink/orange by iron oxides. Last .5' friable.
							Very closely spaced, sealed, carbon filled fractures. Closely to very closely spaced, sealed and open, barite/carbon and barite/quartz filled fractures, most iron/manganese oxide stained.
37.5	46.0	79%		.2'			Sandstone, locally stained dk. pink/orange by iron oxides. Friable.
				.8'			Lt. gray sandy clays.
				5.7'			Med. gray sandstone, mottled by lt. gray lenses and locally stained orange/pink by iron oxides. Locally very friable. Approx. 2' contains disseminated blebs of realgar (?).
							Closely to very closely spaced, sealed and open, barite/iron and manganese oxide stained barite, quartz, and realgar (?) filled fractures (ama



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DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO4	Cond.	
37.5	46.0						.01' wide). Locally very closely spaced, sealed carbon filled fractures.
46.0	56.0	76%		7.6'			Med. gray sandstone, mottled by lt. gray lenses and locally stained dk. orange/pink (to 49.0 (?)) by iron oxides. Isolated pyrite filled nodules (ama .07' diam.).
							Closely to very closely spaced, mostly sealed, heavily iron/manganese oxide stained quartz, barite, and scorodite (?) (ama .03' wide) lined/quartz/barite filled fractures. Very closely spaced, sealed, carbon filled fractures.
56.0	62.0	100%		5.4'			Med. gray sandstone, mottled by lt. gray lenses. Closely to very closely spaced, mostly sealed, barite/barite and carbon filled fractures. Very closely spaced, sealed, carbon filled fractures.
				.6'			Dk. gray, very sandy shale. Ama 1-2% pyrite, along bedding planes/scattered nodules (ama .01' diam.).

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DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
62.0	72.0	93%		5.3'			Dk. gray, very sandy shale with lenses and clasts (ama .2'+wide) dk. gray and black shale and lt. to med. gray sandstone. Locally ama 4-6 pyrite, scattered nodules (ama .04' diam. 62.5 - 63.5 (??)/along bedding planes.
							Closely to very closely spaced, sealed and open, barite crystal/barite crystal and pyrite lined fractures. Locally very closely spaced, sealed, carbon filled fractures.
				4.0'			Med. gray sandstone, locally very friable.
							Very closely spaced, mostly sealed, carbon/carbon and barite filled fractures.
72.0	78.5	84%		5.5'			Med. gray sandstone, mottled by lt. gray lenses, locally very friable, with isolated clasts (ama .06' wide) graphitic shale.
							Closely to very closely spaced, sealed and open, barite crystal/barite and carbon filled fractures. Very closely spaced, mostly sealed, carbon filled fractures.

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DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
78.5	83.5	100%		4.7'			Med. gray sandstone, mottled by lt. gray lenses, locally friable, with isolated clasts (ama .05' wide) dk. gray and black shale. Locally ama 1-2% pyrite, disseminated.
							Closely to very closely spaced, mostly sealed, barite/barite, carbon and pyrite filled fractures.
							Very closely spaced, mostly sealed, carbon filled fractures.
				.3'			Med. to dk. gray, very sandy shale.
83.5	89.0	90%		5.0'			Interbedded med. and dk. gray, very sandy shales, locally gradational to sandstone, with scattered clasts (ama .08' wide) lt. to med. gray sandstone and black shale. Locally ama 3-5% pyrite, scattered nodules (ama .02' diam.)/along bedding planes/ between contacts.
							Closely spaced, sealed and open, barite/barite, carbon, and pyrite filled fractures. Very closely spaced, mostly sealed, carbon filled fractures.
							Locally offsets in bedding along fractures ama .07

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DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
89.0	97.5	100%		8.5			Interbedded med. and dk. gray, very sandy shales with lenses and clasts (ama .23' wide) lt. to med. gray sandstone and med. to dk. gray and black shales. Locally ama 1-3% pyrite, scattered nodule (ama .02' diam.)/disseminated/between contacts. Closely to very closely spaced, mostly sealed, carbon/carbon and barite filled fractures. Locally displacements in bedding along fractures ama .03'.
97.5	101.5	88%		3.5			Interbedded med. and dk. gray sandstones and dk. gray, very sandy shales with lenses and clasts (ama .08' wide) dk. gray and black shales (locally graphitic). Locally ama 2-4% pyrite, along bedding planes/disseminated/isolated nodules (<.01' diam.). Locally core very friable and broken. Closely spaced, sealed and open, barite filled fractures.
101.5	106.5	96%		4.8			Med. to dk. gray sandstone, gradational to very sandy shale, with scattered clasts (ama .03' wide)

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Co-ordinates: North _____ East _____

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Elevation: _____

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DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO4	Cond.	
101.5	106.5						dk. gray and black shale. Locally am 2-4% pyrite, nodules (a a .02' diam.)/disseminated/along bedding planes.
							Closely to very closely spaced, mostly sealed, carbon/barite/carbon and barite filled fractures
106.5	113.0	81%		5.3'			Med. gray sandstone, mottled by lt. gray lenses, locally friable and broken, with isolated clasts (ama .01' wide) black shale. Locally am 4-6% pyrite, disseminated/scattered nodules (ama .03' diam.).
							Very closely spaced, sealed and open, carbon/carbon and barite/barite filled fractures.
							Quartz crystal lined fractures (ama .06' wide)
							106.5 - 107.0 (?).
113.0	114.0	80%		.8'			Dk. gray, very sandy shale with lenses and clasts (ama .02' wide) med. gray sandstone and black shale. Ama 2-4% pyrite, disseminated/scattered nodules (ama .01' diam.)

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FROM	TO			Sp. Gr.	BaSO4	Cond.	
113.0	114.0						Very closely spaced, carbon filled fractures.
114.0	117.0	100%		3.0'			Interbedded, med. and dk. gray sandy to very sandy shales and med. gray sandstone, mottled by lt. gray lenses, with lenses and clasts (ama .09' wide) med. to dk. gray and black shales. Locally ama 3-5% pyrite, between contacts/disseminated/along bedding planes/scattered nodules (ama .02' diam.).
							Very closely spaced, sealed and open, carbon/carbon and quartz crystal/quartz filled fractures. Locally displacements in bedding along fractures ama .01'.
117.0	122.0	100%		4.1'			Dk. gray sandstone, mottled by lt. to med. gray lenses and lenses, with clasts (ama .07' wide, some angular) dk. gray sandy shale and dk. gray and black shale. Lt. gray, sandy shale lens (.01' wide) at 117.5 partially replaced by barite. Locally ama 2-3% pyrite, along bedding planes/between

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DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO4	Cond.	
117.0	122.0						contacts/isolated nodules (ama .01' diam.)). Core very broken. Closely to very closely spaced, sealed and open, barite crystal/carbon/carbon and barite filled fractures.
				.9'			Med. gray sandstone, mottled by lt. gray lenses. Very broken.
122.0	126.0	100%		3.5'			Med. gray sandstone, mottled by lt. gray lenses, with isolated clasts (<.01' wide) dk. gray and black shale. Locally ama 1% pyrite, disseminated. Very closely spaced, open and sealed, carbon/ carbon and barite/barite filled fractures.
				.5'			Interbedded black shale and dk. gray very sandy shale. Ama 1-2% pyrite along bedding planes.
126.0	131.5	100%		5.5'			Black shale with lenses (ama .13' wide) med. to dk. gray sandy shale. Locally ama 2-5% pyrite, nodules (ama .02' diam.)/lenses (<.01' wide)/ between contacts/along bedding planes. Core



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DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
126.0	131.5						Closely to very closely spaced, mostly sealed and subparallel to bedding planes, lt. yellow barite filled fractures.
131.5	136.5	100%		5.0'			Med. to dk. gray sandy shale, gradational to very sandy shale, with lenses and clasts (ama .13' wide) dk. gray and black shales. Ama 5-8% pyrite, disseminated/nodules (<.01' diam.)/ between contacts/along bedding planes. Pyrite concentrations locally linearly distributed.
							Closely to very closely spaced, sealed and open, barite/barite, carbon, and pyrite filled fracture locally subparallel to bedding planes.
136.5	146.5	100%		10.0'			Interbedded med. to dk. gray and black shales and med. to dk. gray sandy shales, locally gradational to very sandy shales. Locally lenses contain nodules (ama .03' diam.) partially to completely replaced by barite. Locally ama 2-3% pyrite, disseminated/between contacts/

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DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO4	Cond.	
146.5	156.5						150.3 - 151.4 2-4%
							151.4 - 151.6 3-6%
							151.6 - 152.0 <2%
							152.0 - 152.2 5-10%
							152.2 - 152.6
							152.6 - 152.9 5-10%
							152.9 - 153.2 35-45%
							153.2 - 153.5 5-10%
							153.5 - 153.7 2-4%
							153.7 - 154.2 3-8%
							154.2 - 154.6 25-35%
							154.6 - 154.7 3-8%
							154.7 - 154.8 30-35%
							154.8 - 154.9 5-15%
							154.9 - 155.6 40-50%
							155.6 - 155.7 15-25%
							155.7 - 156.1 35-45%
							156.1 - 156.4 5-10%
							Closely spaced, sealed and open, barite f
							fractures.

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Total Depth: _____

[illegible]

DRILL HOLE RECORD

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Drilled By: _____

Co-ordinates: North _____ East _____

Logged By: _____

Elevation: _____

Total Depth: _____

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Date: _____

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Logged By: _____

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Total Depth: _____

DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	Ba\$04	Cond.	
163.0	167.5						164.6 - 164.8 <1%
							164.8 - 165.2 10-20%
							165.2 - 165.3 <2%
							165.3 - 165.5 5-15%
							165.5 - 165.7 5-10%
							165.7 - 165.9 10-20%
							165.9 - 166.0 <2%
							166.0 - 166.3 35-45%
							166.3 - 167.1 5-10%
							167.1 - 167.3 5-15%
							Closely to very closely spaced, unmineralized fractures. Offset in bedding along fracture at 165.3 of .01'.
167.5	176.5	100%		9.0'			Interbedded dk. gray and black shales with scattered lenses (ama .04' wide) med. gray sandy shale. Lenses locally contain nodules (ama .04' diam.) partially to completely replaced by barite. Locally ama 5-8% pyrite, lenses (ama .01' wide/between contacts/disseminated/scatter-

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DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
167.5	176.5						ed nodules (<.01' diam.)/rimming nodules.
							167.3 - 167.5 10-20%
							167.5 - 167.9 3-8%
							167.9 - 168.2
							168.2 - 168.5 5-10%
							168.5 - 168.6 <2%
							168.6 - 169.1 3-8%
							169.1 - 169.5 10-20%, replacing carbon rich nod-
							ules
							169.5 - 169.6 5-10% "
							169.6 - 169.8
							169.8 - 170.0 1-3% "
							170.0 - 173.5 1-3%, replacing carbon rich nod-
							ules (ama 10-20% nodules)
							173.5 - 176.5
							Locally very closely spaced, sealed, barite fill-
							ed fractures. Displacement in bedding along
							sealed fracture at 171.2; amount cannot be de-
							termined.

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DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO4	Cond.	
176.5	184.5	100%		1.6'			Black, slightly sandy shale (texture similar to claystone) with isolated dk. gray, very sandy shale lenses (ama .01' wide). Isolated carbon rich nodules (ama .01' diam.).
				2.6'			Interbedded dk. gray very sandy shale and dk. gray and black shales with med. gray lenses (ama .02' wide) med. gray very sandy shale.
				3.2'			Dk. gray, very sandy shale, mottled by med. gray lenses, with scattered black shale clasts (ama .01' wide). Isolated barite nodules (ama .02' diam.).
				.6'			Interbedded dk. gray and black shales and dk. gray sandy shale containing ama 5-10% carbon rich nodules (<.01' diam.).
							Moderately closely to closely spaced, sealed barite filled fractures (ama .02' wide, some showing boxwork structure ^{TEXTURE}). Displacement in bedding along fracture at 180.5 of .2'.
184.5	189.0	100%		4.5'			Interbedded dk. gray and black shales and med.

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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
203.0	213.5						203.8 - 209.1 5-15%
							209.1 - 209.3 35-45%
							209.3 - 209.5 25-35%
							209.5 - 209.8 35-45%
							209.8 - 210.2 15-25%
							210.2 - 210.3 45-55%
							210.3 - 211.0 50-60%
							211.0 - 211.2 20-30%
							211.2 - 211.9 55-65%
							211.9 - 212.0 25-35%
							212.0 - 212.4 55-65%
							212.4 - 212.6 25-35%
							212.6 - 212.9 60-70%
							Moderately closely to very closely spaced, sealed
							and open, barite crystal/barite filled fractures.
213.0	213.5	100%		.5'			Barite nodules (ama .02' diam.) and nodular
							lenses (ama .04' wide) in med. and dk. gray
							sandy shale with black shale lenses (ama .04'
							wide). Locally ama 1-2% pyrite, disseminated/

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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
213.5	223.5	100%					215.9 - 216.4 45-55%
							216.4 - 216.5 30-40%
							216.5 - 217.0 45-55%
							217.0 - 217.5 35-45%
							217.5 - 218.3 50-60%
							218.3 - 218.5 20-30%
							218.5 - 218.7 30-40%
							218.7 - 219.4 30-35%
							219.4 - 219.5 40-50%
							219.5 - 220.3 35-45%
							220.3 - 220.6 10-20%
							220.6 - 221.0 25-35%
							221.0 - 221.4 50-60%
							221.4 - 221.6 20-30%
							221.6 - 221.8 35-45%
							221.8 - 222.0 30-40%
							222.0 - 222.2 10-20%
							222.2 - 222.4 25-35%
							222.4 - 222.7 20-30%
							222.7 - 223.0 40-50%

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DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
213.5	223.5						223.0 - 223.2 30-40%
							223.2 - 223.5 50-60%
							Moderately closely to closely spaced, sealed, barite crystal lined fractures.
223.5	227.5	100%		4.0'			Barite nodules (ama .03' diam.) and nodular lenses (ama .11' wide) in interbedded med. gray sandy shale and dk. gray and black shales. Locally ama 1-3% pyrite, disseminated/lenses (<.01' wide)/rimming nodules/along bedding planes.
							223.5 - 223.7 60-70%
							223.7 - 223.9 50-60%
							223.9 - 224.0 25-35%
							224.0 - 224.1 shale
							224.1 - 224.4 2-4%
							224.4 - 224.6 55-65%
							224.6 - 224.8 45-55%
							224.8 - 225.8 40-50%
							225.8 - 226.1 25-35%

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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
223.5	227.5						226.1 - 226.3 40-45%
							226.3 - 226.5 5-10%
							226.5 - 227.0 shale
							227.0 - 227.2 35-45%
							227.2 - 227.4 40-50%
							Closely spaced, sealed, barite crystal lined fractures.
227.5	233.0	100%		5.5'			Barite nodules (avg .04' diam.) and nodular lenses (ama .04' wide) in interbedded med. and dk. gray sandy shales and med., dk. gray and black shales. Locally ama 2-4% pyrite, disseminated/lenses (avg .02' wide)/along bedding planes/between contacts.
							227.4 - 227.7 15-20%
							227.7 - 227.9 35-45%
							227.9 - 228.5 shale and sandy shale
							228.5 - 228.7 5-10%
							228.7 - 229.1 25-30%
							229.1 - 229.5 30-40%



MINERAL DIVISION

FANCY HILL, ARKANSAS

DRILL HOLE RECORD

Drill Hole No.: WDDH-6 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.	
227.5	229.0						229.5 - 229.7 30-35%
							229.7 - 229.8 40-50%
							229.8 - 230.5 30-35%
							230.5 - 230.8 50-60%
							230.8 - 230.9 35-40%
							230.9 - 231.1 30-35%
							231.1 - 231.4 20-30%
							231.4 - 231.7 1-3%
							231.7 - 231.9 30-40%
							231.9 - 232.2 15-25%
							232.2 - 232.4 20-25%
							232.4 - 232.8 15-25%
							232.8 - 233.0 30-40%
							Moderately closely to closely spaced, sealed, barite crystal lined fractures.
233.0	237.5	100%		4.5'			Barite nodules (ama .04' diam.) and nodular len- ses (ama .4'+wide) in interbedded med. and dk. gray sandy shales and dk. gray and black shales. Locally ama 2-4% pyrite, disseminated/between



MINERAL DIVISION

FANCY HILL, ARKANSAS

DRILL HOLE RECORD

Drill Hole No.: MDDH-6 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.	
233.0	237.5						contacts/lenses (<.01' wide)/along bedding planes.
							233.0 - 233.5 25-35%
							233.5 - 234.0 60-70%
							234.0 - 234.3 25-35%
							234.3 - 234.5 40-50%
							234.5 - 234.7 15-20%
							234.7 - 235.1 30-35%
							235.1 - 235.8 shale
							235.8 - 235.9 3-5%
							235.9 - 236.1 sandy shale
							236.1 - 236.2 2-4%
							236.2 - 236.4 shale
							236.4 - 237.3 75-85%
							Closely to very closely spaced, mostly sealed, barite crystal lined fractures.
237.5	247.0	100%		9.5'			Barite nodules (ama .04' diam.) and nodular lenses (ama .15' wide) in med. and dk. gray sandy shales with dk. gray and black shale lenses

DRILL HOLE RECORD

Drill Hole No.: MDDH-6 Inclination:

Date: _____

Property: Pancy 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.	
237.5	247.0						(ama .18' wide). Locally ama 1-3% pyrite, disseminated/between contacts/along bedding planes/rimming nodules.
							237.3 - 237.4 75-85%
							237.4 - 237.6 30-40%
							237.6 - 237.8 40-50%
							237.8 - 237.9 45-55%
							237.9 - 238.0 25-35%
							238.0 - 238.2 3-5%
							238.2 - 238.3 25-35%
							238.3 - 238.5 2-3%
							238.5 - 238.6 25-35%
							238.6 - 238.9 5-15%
							238.9 - 239.1 <2%
							239.1 - 239.5 5-15%
							239.5 - 239.7 15-25%
							239.7 - 240.1 50-60%
							240.1 - 240.5 15-25%
							240.5 - 240.7 3-5%
							240.7 - 240.8 5-15%

DRILL HOLE RECORD

Drill Hole No.: WDDH-6 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.	
237.5	247.0						240.8 - 240.9 25-35%
							240.9 - 241.4 60-65%
							241.4 - 241.6 5-10%
							241.6 - 241.9 10-20%
							241.9 - 242.0 40-50%
							242.0 - 242.5 35-45%
							242.5 - 242.8 40-45%
							242.8 - 243.1 30-40%
							243.1 - 243.2 3-8%
							243.2 - 243.4 40-50%
							243.4 - 243.5 5-8%
							243.5 - 243.7 45-55%
							243.7 - 244.1 20-30%
							244.1 - 244.3 50-60%
							244.3 - 244.6 <1%
							244.6 - 244.8 65-75%
							244.8 - 244.9 5-10%
							244.9 - 245.0 30-40%
							245.0 - 245.1 10-15%
							245.1 - 245.3 70-80%

DRILL HOLE RECORD

 Drill Hole No.: MDDH-6 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.	
237.5	247.0						245.3 - 245.4 5-15%
							245.4 - 245.7 50-60%
							245.7 - 245.9 30-40%
							245.9 - 246.0 10-15%
							246.0 - 246.1 35-45%
							246.1 - 246.3 15-25%
							246.3 - 246.7 70-80%
							246.7 - 246.9 35-45%
							246.9 - 247.0 40-50%
							Closely to very closely spaced, sealed and open, barite crystal lined fractures.
247.0	252.0	86%		4.3'			Barite nodules (ama .02' diam.) and nodular lenses (ama .08' wide) in med. and dk. gray sandy shales with dk. gray and black shale lenses (ama .06' wide). Locally ama 1-2% pyrite along bedding planes. Core very broken last 2.5'.
							.3' 20-30%
							.7' 70-75%
							.2' 75-85%

DRILL HOLE RECORD

Drill Hole No.: MDDH-6 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.	
247.0	252.0						.2' 3-8%
							.6' 65-75%
Grouted innertube in core barrel							1.7' 85-95%, replacing hydrothermally altered (silicified?)
with sand; pulled rods and reduced							host rock, core contains channel-
to NX							ways approx .01' diam.
							.1' 65-75%
							.5' 85-90%
							Very closely spaced, open and sealed, barite
							filled fractures.
252.0	262.0	100%		10.0'			Barite nodules (approx .02' diam.) and nodular len-
							ses (approx .03' wide) in med. and dk. gray sandy
							shales with med., dk. gray, and black shale
							lenses (approx .08' wide). Locally approx 1-3% pyrite,
							disseminated/lenses (approx .01' wide)/along bedding
							planes/between contacts.
							251.8 - 252.1 80-90%
							252.1 - 252.2 70-80%
							252.2 - 252.5 80-90%
							252.5 - 252.6 60-70%

DRILL HOLE RECORD

Drill Hole No.: MDDF-6 Inclination: _____

Date: _____

Property: Fancy Hill

Drilled By: _____

Co-ordinates: North _____ East _____

Logged By: _____

Elevation: _____

Total Depth: _____

[illegible]



MINERAL DIVISION

FANCY HILL, ARKANSAS

DRILL HOLE RECORD

Drill Hole No: MDDH-6 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.	
252.0	262.0						256.0 - 256.4 10-15%
							256.4 - 256.5 50-60%
							256.5 - 256.7 10-15%
							256.7 - 256.8 50-60%
							256.8 - 257.1 3-8%
							257.1 - 257.6 60-70%
							257.6 - 258.0 shale
							258.0 - 258.1 5-10%
							258.1 - 258.3 45-55%
							258.3 - 258.4 5-10%
							258.4 - 259.2 35-40%
							259.2 - 259.8 45-55%
							259.8 - 260.0 25-30%
							260.0 - 260.2 40-50%
							260.2 - 260.9 40-45%
							260.9 - 261.4 20-30%
							261.4 - 261.8 50-60%
							261.8 - 261.9 5-10%
							261.9 - 262.0 40-50%
							Closely to very closely spaced, mostly se

DRILL HOLE RECORD

Date: _____

Drilled By: _____

Logged By: _____

Total Depth: _____

[illegible]

DRILL HOLE RECORD

Drill Hole No.: MDDH-6 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.	BaS04	Cond.	
262.0	272.0						266.6 - 266.8 25-35%
							266.8 - 266.9 5-10%
							266.9 - 267.5 35-45%
							267.5 - 267.7 30-40%
							267.7 - 267.9 5-15%
							267.9 - 268.5 65-75%
				3.6'			Barite nodules and nodular lenses in interbedded shales and sandy shales.
							268.5 - 268.6 <3%
							268.6 - 269.0 25-35%
							269.0 - 269.3 10-20%
							269.3 - 269.5 3-8%
							269.5 - 269.7 15-20%
							269.7 - 269.9 2-5%
							269.9 - 270.5 25-35%
							270.5 - 271.1 5-15%
							271.1 - 271.4 <2%
							271.4 - 271.5 3-8%
							271.5 - 271.6 40-50%
							271.6 - 271.9 20-30%

DRILL HOLE RECORD

Drill Hole No.: MDDH-6 Inclination: _____

Date: _____

Property: Pancy Hill

Drilled By: _____

Co-ordinates: North _____ East _____

Logged By: _____

Elevation: _____

Total Depth: _____

[illegible]



MINERAL DIVISION

FANCY HILL, ARKANSAS

DRILL HOLE RECORD

Drill Hole No.: MDDH-6 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.	
282.0	292.0						contain nodules (ama .03' diam.) partially to completely replaced by barite. Calcareous nodules (<<.01' diam.) 289.5 - 291.0. Locally ama 3-5% pyrite, disseminated/along bedding planes/rimming nodules.
							286.4 - 287.1 10-20%
							287.1 - 287.6 2-5%
							287.6 - 287.9 <1%
							287.9 - 289.3 shale
							289.3 - 289.5 <1%
							289.5 - 289.7 20-30%
							289.7 - 290.0 35-45%
							290.0 - 290.2 20-30%
							290.2 - 290.4 10-20%
							290.4 - 290.6 25-35%
							290.6 - 291.1 5-15%
							291.1 - 292.2 shale
							Closely to very closely spaced, mostly sealed, barite filled/or unmineralized fractures. Click ensides at 286.4.

DRILL HOLE RECORD

 Drill Hole No.: MDDH-6 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.	
272.0	282.0						282.0 - 282.1 30-40%
							282.1 - 282.3 45-55%
							Closely to very closely spaced, mostly sealed, barite crystal/barite (ama .01' wide) filled fractures.
282.0	292.0	100%		2.4'			Barite nodules (ama .03' diam.) and nodular len- ses (ama .07' wide) in med., dk. gray, and black shales with med. and dk. gray sandy shale lenses (ama .26'+ wide). Locally ama 1-3% pyrite, dis- seminated/along bedding planes/rimming nodules.
							282.3 - 282.6 45-55%
							282.6 - 282.8 30-40%
							282.8 - 283.1 45-55%
							283.1 - 283.6 60-65%
							283.6 - 284.1 50-55%
							284.1 - 284.7 70-80%
							284.7 - 286.4 20-30%
				7.6'			Interbedded dk. gray and black shales and med. and dk. gray sandy shales. Locally lenses

DRILL HOLE RECORD

Drill Hole No.: MDDT-6 Inclination: _____

Date: _____

Property: Fancy Hill

Drilled By: _____

Co-ordinates: North _____ East _____

Logged By: _____

Elevation: _____

Total Depth: _____

[illegible]



MINERAL DIVISION

FANCY HILL, ARKANSAS

DRILL HOLE RECORD

Drill Hole No.: MDDH-6 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.	
292.0	297.5	100%		5.5'			Interbedded med. and dk. gray sandy shales and dk. gray and black shales with lenses lt. gray calcareous sandstone. Locally lenses contain barite nodules (ama .03' diam.) and nodular lenses (ama .03' wide). Locally ama 3-5% pyrite, disseminated/between contacts/lenses (<.01' wide
Dip of bedding changes from north to south at approx. 294'							292.2 - 292.5 5-10%
							292.5 - 295.2 45-55%
							295.2 - 297.5 <1%, isolated nodules
							Closely spaced, unmineralized/or sealed, barite filled fractures.
297.5	304.0	35%		.5'			Med. to dk. gray sandy shale containing barite nodules (ama .02' diam.) and nodular lenses (ama .01' wide). Ama 1% disseminated pyrite.
ENCOUNTERED ARTESIAN WATER THIS INTERVAL							Core loss interval. Black sludge.
				1.8'			Interbedded black graphitic shale and black sandy shale. Lenses contain nodular lenses (<<.01' wide) of barite. Core very broken.
							.5' 10-20%



MINERAL DIVISION

FANCY HILL, ARKANSAS

DRILL HOLE RECORD

Drill Hole No.: MDDH-6 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.	
297.5	304.0						1.3' 2-5%
304.0	314.0	97%		4.0'			Interbedded black shale and dk. gray and black very sandy shales. Locally lenses contain ama 10-15% lt. gray calcareous siltstone nodules (ama .02' diam.), some partially replaced by barite.
							Good interval for thin sections of unreplaced nodules.
							Very closely spaced, unmineralized fractures.
				5.7'			Interbedded lt., med., dk. gray, and black shale with scattered lenses (ama .02' wide) lt. and med. gray sandy shale and lt. gray calcareous siltstone. Locally lenses contain ama 5-10% carbonaceous/calcareous nodules (ama .02' diam.) partially replaced by barite (<2%). Locally ama 3-5% pyrite, disseminated/nodules (ama .01' diam.)/lenses (<.01' wide)/along bedding planes.
314.0	322.0	100%		8.0'			Interbedded dk. gray and black shales with lt., med., and dk. gray sandy shale lenses (ama .06' wide) and scattered lt. gray calcareous sandy

DRILL HOLE RECORD

 Drill Hole No.: MDDH-6 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.	
314.0	322.0						shale lenses (ama .04' wide). Locally lenses contain ama 5-15% nodules (ama .02' diam.) partially replaced by barite. Locally ama 2-4% pyrite, along bedding planes/disseminated.
							314.9 - 315.8 2-5%
							315.8 - 316.0 5-10%
							316.7 - 316.9 3-8%
							317.5 - 317.8 1-3%
							317.8 - 318.0 5-10%
							Very closely spaced, open, pyrite/pyrite and barite coated fractures 317.0 - 322.0.
322.0	330.5	100%		8.5'			Interbedded lt., med. and dk. gray shales with scattered black shale lenses (ama .22' wide) and isolated black sandy shale lenses (ama .12' wide)
							Ama 2-3% pyrite, along bedding planes/disseminated.
							Closely to very closely spaced, open, pyrite/pyrite and barite coated fractures.

DRILL HOLE RECORD

Drill Hole No.: MDDH-6 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.	
330.5	341.0	85%		8.8'			Interbedded lt., med., and dk. gray shales with lenses (ama .17' wide) black shale and dk. gray and black slightly sandy shale. Locally ama 3-5% pyrite, along bedding planes/lenses <.01' wide/disseminated.
				.1'			Lt. gray pyritic clays. Core loss.
				.1'			Med. to dk. gray chert with veins (ama .02' wide pyrite).
Explanation : fractures							
Moderately closely spaced			= >3'				
Closely spaced			= 1'-3'				
Very closely spaced			= <1'				
REQUIRED FOUR DAYS TO REMOVE				250 FEET OF HX CASING BROUGHT IN			
HOLE BY SAND. JOE HALABURDA				RECOMMENDED USE OF CLAYS (OR OTHER			
SUITABLE DRILLING ADDITIVES)				DURING INSTALLATION OF CASING TO PREVENT			
CORROSION SIMILAR LITHOLOGY BE ENCOUNTERED				IN SUBSEQUENT DRILLING			

SAMPLE	LOG #	DEPTH	INTERVAL	CALCULATED SPECIFIC* GRAVITY	X-RAY % BaSO ₄
MDDH-6					
#1	734	192.9-202.7	9.80	3.519	56.3
#2	735	202.7-212.6	9.90	3.733	68.1
#3	736	212.6-222.4	9.80	3.687	65.7
#4	737	222.4-232.3	9.90	3.471	53.5
#5	738	232.3-242.1	9.80	3.390	48.5
#6	739	242.1-252.0	9.90	3.780	70.5
#7	740	252.0-261.8	9.80	3.764	69.7
#8	741	261.8-271.7	9.90	3.596	60.7
#9	742	271.7-281.5	9.80	3.208	36.4
#10	743	281.5-286.4	9.90	3.608	61.4
#10A	755	286.4-295.2	9.80	3.099	28.5
#1A		*295.2-297.5	2.30	2.800	3.57
#2A		*297.5-298.4	.90	3.285	41.72
#3A		*298.4-303.7	5.30	2.794	24.39
#4A		*303.7-306.4	2.70	2.886	11.30
#5A		*306.4-313.3	6.90	2.805	4.05
#6A		*313.3-314.3	1.00	2.797	3.30
		TOTAL	127.40		
COMPOSITE	753	MEASURED		3.53	56.7
COMPOSITE		CALCULATED	3	3.44	51.61
*Not included in composite measured					
**Specific gravity calculated from X-ray					