

DRILL HOLE RECORD

Drill Hole No.: MDDH-14 Inclination: _____Date: Started 12/5/1976, completed 1/16/1977Property: Fancy HillDrilled By: Sprague & Henwood - Bill Deininger
Sam Grathier

Co-ordinates: North _____ East _____

Logged By: Les Farrington

Elevation: _____

Total Depth: 269'

DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO4	Cond.	
0.0	5.0	14%		.6'			Alluvium; chert. Estimate alluvial cover to 3.5'.
				.1'			White to orange clays.
5.0	10.0	10%		.5'			Lt. gray sandstone, stained orange by iron oxides.
10.0	12.5	64%		.4'			Lt. gray sandstone, stained dk. orange by iron oxides.
				.9'			Lt. gray sandy shale with clasts (ama .03' wide) dk. gray shale. Both largely altered to clays.
				.3'			Lt. gray sandstone, stained dk. orange by iron oxides.
							Iron stained, sealed fractures over interval.
12.5	15.0	60%		.3'			Lt. gray sandstone, stained dk. orange by iron oxides.
				.1'			Lt. gray sandy shale with clasts (ama .02' wide) dk. gray shale. Both altered to clays.
				1.1'			Lt. gray sandstone, locally stained dk. orange by iron oxides, with a lens of lt. gray sandy shale (.04' wide). Both contain clasts (ama .02' wide)

NOTE: 5/12/1977 MINERAL REFERRED TO AS SCORADITE IS CHLORITE

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FROM	TO			Sp. Gr.	Ba\$O4	Cond.	
12.5	15.0						of dk. gray shale. Sandy shale and shale partially altered to clay.
							Iron and manganese oxide stained fractures, mostly sealed, over interval. Offset in bedding along one fracture of about .01'.
15.0	18.0	1%		.1'			Orange clay.
18.0	21.5	43%		1.5'			Lt. gray sandstone, stained dk. orange by iron oxides.
							Heavily iron and manganese oxide coated fractures.
21.5	32.0	57%		6.0'			White to lt. gray sandstone (fine to med. grained intervals approx 1' long stained dk. orange by iron oxides, with isolated clasts (approx .01' wide) of dk. gray shale.
							Closely to very closely spaced, mostly sealed, barite/carbon/carbon and quartz/quartz filled fractures, some heavily iron/manganese oxide stained/coated.



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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
32.0	42.0	100%		4.2'			White to lt. gray, fine to med. grained sandstone, locally stained dk. orange by iron oxides. Core very friable and broken 33.5 - 34.5.
				5.8'			Med. gray sandstone, mottled by lt. gray lenses, locally stained greenish-orange by oxidation of disseminated pyrite, with a black shale lens (.14' wide at 36.4. Core very friable and broken 40.5 - 41.5.
							Closely to very closely spaced, sealed and open, heavily iron/manganese oxide stained, barite/barite and carbon/carbon/carbon and quartz/quartz filled/coated fractures over entire interval.
42.0	52.0	79%		7.9'			Med. gray sandstone, mottled by lt. gray lenses, locally stained greenish-orange by oxidation of disseminated pyrite. Locally very friable and broken (widths approx .3').
							Very closely spaced, open and sealed, some heavily iron/manganese oxide stained, barite crystal/barite and pyrite/carbon/pyrite coated/filled

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FROM	TO			Sp. Gr.	Ba\$04	Cond.	
42.0	52.0						fractures.
52.0	62.0	100%		10.0'			Med. gray sandstone, mottled by lt. gray lenses. Black shale lens .16' wide at 54.0. Isolated, pyrite filled nodules (ama .08' diam.). Very closely spaced, mostly sealed, carbon/carbon and pyrite/barite crystal (lined, ama .01' wide)// barite and pyrite filled fractures.
62.0	70.0	55%		4.1'			Med. gray sandstone, mottled by lt. gray lenses. Very friable and broken last 1'. Very closely spaced, mostly sealed, carbon/barite/ barite and pyrite filled fractures. Core loss interval: Approx. 2' black graphitic sludge.
				.3'			Lt. gray to black clays (fault gouge ?).
70.0	75.0	82%		4.1'			Med. gray sandstone. Locally very friable and broken. Very closely spaced, mostly sealed, carbon/carbon

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FROM	TO			Sp. Gr.	BaSO4	Cond.	
70.0	75.0						and barite/barite/pyrite filled fractures.
75.0	82.0	51%		3.1'			Med. gray sandstone with scattered lt. gray lenses. Isolated, pyrite filled nodules (ama .03' diam.). Very closely spaced, mostly sealed, carbon/carbon and barite/barite filled fractures.
82.0	84.0	100%		2.0'			Med. gray sandstone with scattered lt. gray lenses. Well indurated. Isolated pyrite filled nodules (ama .01' diam.).
<i>SEQUENCE SILICIFIED</i>							
		82.0 — 156.5					Very closely spaced, mostly sealed, carbon/carbon and barite/barite/barite and pyrite filled fractures.
84.0	86.5	100%		2.5'			Med. gray sandstone with scattered lt. gray lenses. Well indurated. Isolated, pyrite filled nodules (ama .05' diam.). Very closely spaced, mostly sealed, carbon/carbon and barite/quartz/quartz and pyrite/barite and pyrite filled fractures.



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FROM	TO			Sp. Gr.	Ba\$04	Cond.	
86.5	91.0	95%		2.3'			Med. gray sandstone. Well indurated. Isolated, pyrite filled nodules (ama .02' diam.).
							Very closely spaced, mostly sealed, carbon/carbon and pyrite/quartz (ama .02' wide)/quartz and pyrite /barite filled fractures.
91.0	94.0	87%		2.6'			Dk. gray sandy shale with lenses and clasts (ama .04' wide) med. gray sandstone and lenses (ama .23' wide) black shale. Locally ama 2-3% pyrite, disseminated/along bedding planes/lenses .01' wide.
							Very closely spaced, mostly sealed, quartz/quartz and scorodite (?) filled fractures (fractures ama .02' wide).
94.0	97.5	100%		3.5'			Med. gray sandstone with scattered clasts (ama .02' wide) dk. gray sandy shale. Locally ama 2% disseminated pyrite.
							Very closely spaced, mostly sealed, quartz/quartz, pyrite, and scorodite (?) lined/filled/carbon

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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
94.0	97.5						filled fractures.
97.5	101.0	57%		.7'			Med. gray sandstone. Very broken. Very closely spaced, sealed and fragments of quartz /quartz, pyrite, and scorodite (?) lined/filled fractures (ama .06' wide).
				1.3'			Dk. gray sandy shale with med. gray sandstone lenses (ama .02' wide) and black shale lenses (ama .1' wide). Locally ama 2% pyrite, along bedding planes/isolated pyrite filled nodules (ama .01' diam.).
							Very closely spaced, mostly sealed, quartz/quartz, pyrite, and scorodite (?) lined/filled fractures (most sub-parallel to bedding, ama .01' wide).
101.0	104.0	100%					Med. to dk. gray sandy shale, gradational to sandstone, with black shale lenses and clasts (ama .07' wide). Locally ama 1-2% pyrite along bedding planes/between contacts.
							Very closely spaced, mostly sealed, scorodite/



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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
101.0	104.0						quartz and scorodite/quartz, scorodite, and pyrite filled/lined fractures. Displacements in bedding along fractures of ama .03'.
							Shear zone (?) 101.2 - 104.0. Change in attitude of bedding at approx. 102.5. Brecciated fragments of sandy shale and shale cemented by scorodite/quartz and scorodite (widths ama .1', open space filling textures).
104.0	105.5	87%		1.3'			Med. gray sandstone, gradational to sandy shale, with clasts (ama .01' wide) black shale.
							Shear zone (?) 104.0 - 105.5. Very closely spaced, sealed, quartz, scorodite (?), and pyrite filled fractures (ama .1' wide, open space filling textures predominating) containing brecciated clasts of sandstone (ama .01' wide).
105.5	110.5	100%		5.0'			Med. to dk. gray sandstone, gradational to sandy shale, with lenses and clasts (ama .07' wide) lt. to med. gray sandstone and lenses and clasts (ama

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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
105.5	110.5						.03' wide) dk. gray to black shale. Ama 1-2% pyrite locally along bedding planes of shale.
							Shear zone (?) 105.5 - . Very closely spaced, mostly sealed, quartz and scorodite/quartz filled fractures (ama .06' wide, open space filling textures).
110.5	114.0	100%		3.5'			Med. to dk. gray sandstone, gradational to sandy shale 110.5 - 112.0, with lenses and clasts (ama .1' wide) lt. to med. gray sandstone and lenses and clasts of dk. gray to black shale (ama .07' wide). Locally ama 2-3% pyrite, along bedding planes/between contacts/isolated lenses < .01' wide. Very closely spaced, mostly sealed, quartz/quartz, scorodite, and pyrite filled fractures (ama .02' wide, open space filling textures).
114.0	116.0	95%		1.9'			Med. gray sandstone, mottled by lt. gray lenses, with scattered black shale clasts (ama .09' wide). Ama 1% pyrite locally along bedding planes of shale

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FROM	TO			Sp. Gr.	BaSO4	Cond.	
114.0	116.0						Closely spaced, mostly sealed, quartz filled fractures.
116.0	118.0	100%		2.0'			Med. gray sandstone (well indurated), mottled by lt. gray lenses, with scattered black shale lenses (ama .09' wide) last .4'. Locally ama 2-3% pyrite, between contacts/along bedding planes of shale. Slickensides on fracture in shale lens.
118.0	124.0	100%		6.0'			Med. gray sandstone (well indurated), mottled by lt. gray lenses, with scattered clasts (ama .05' wide) black shale. Ama 5% locally pyrite filled nodules (ama .04' diam.) 121.5 - 124.0. Moderately closely spaced, mostly sealed, quartz/quartz and pyrite filled fractures.
124.0	126.5	100%		2.5'			Med. gray sandstone (well indurated), mottled by lt. gray lenses, with isolated clasts (ama .01' wide) black shale. Locally ama 3-4% pyrite filled nodules (ama .03' diam.). Closely spaced, mostly sealed, quartz/quartz and

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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
124.0	126.5						pyrite filled fractures.
126.5	133.0	94%		4.4'			Med. gray sandstone (well indurated) with scattered lenses and clasts (ama .28' wide) black shale and dk. gray sandy shale (ama .28' wide, well indurated). Locally ama 5-8% pyrite, lenses ama .04' wide/nodules ama .05' diam./along bedding planes of shale/between contacts. Closely spaced, sealed, quartz/quartz and pyrite filled fractures. Very closely spaced, unmineralized fractures 129.0 - 129.5.
				1.7'			Med. and dk. gray very sandy shale (well indurated) mottled by lenses (ama .08' wide) lt. gray sandstone, with black shale lenses and clasts (ama .2' wide). Locally ama 5% pyrite, nodules (ama .02' diam.)/lenses ama .01' wide/along bedding planes of shale.
133.0	138.0	100%		.2'			to dk. Med. gray very sandy shale (well indurated).
				4.8'			Med. gray sandstone (well indurated), mottled by lt. gray lenses, with scattered black shale clasts

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FROM	TO			Sp. Gr.	BaSO4	Cond.	
133.0	138.0						(ama .07' wide). Ama 1-2% pyrite locally, mostly finely disseminated/between contacts.
							Closely spaced, mostly sealed, quartz/quartz, pyrit and barite/carbon filled fractures.
138.0	144.5	100%		6.5'			Med. gray sandstone (well indurated), mottled by lt. gray lenses, with isolated dk. gray and black shale clasts (ama .01' wide). Black shale lens 144.2 - 144.5. Locally ama 1% finely disseminated pyrite.
							Closely to very closely spaced, open, unmineralized /carbon and pyrite coated fractures. Very closely spaced, mostly sealed, quartz/quartz and pyrite filled fractures (ama .01' wide) 142.0 - 144.0.
							Slickensides with carbon and pyrite in shale at 144.5.
144.5	146.0	96%		1.4'			Black shale, locally highly silicified (in contact or containing fragments of with highly silicified dk. gray sandy shale/or chert (?) 144.5 - 145.0). Core very broken.

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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
144.5	146.0						Shear zone (?). Very closely spaced, sealed and open quartz filled fractures. Quartz and pyrite coated fracture over entire interval with slicken-sides.
146.0	148.0	95%		1.3'			Black shale, locally highly silicified. Ama 2% pyrite along bedding planes/pyrite filled nodules ama .01' diam.
							Fracture along entire interval showing slicken-sides with pyrite and quartz. Very closely spaced, mostly sealed, quartz filled fractures (ama .08' wide).
				.6'			Slightly silicified black shale. Ama 1-2% pyrite along bedding planes.
							Very closely spaced, quartz filled fractures.
148.0	152.5	100%		1.3'			Silicified dk. gray and black shales with silicified dk. gray sandy shale lenses (ama .08' wide). Locally ama 4-6% pyrite, lenses (ama .02' wide)/nodules (ama .04' diam.)/along bedding planes.

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FROM	TO			Sp. Gr.	Ba\$04	Cond.	
148.0	152.5			3.2'			Dk. gray sandy shale with dk. gray and black shale lenses (ama .2' wide) and lt. to med. gray sandstone lenses and clasts (ama .04' wide). All members silicified. Ama 5-8% pyrite, nodules (ama .06' diam.)/lenses (ama .07' wide)/between contacts/along bedding planes.
							Very closely spaced, mostly sealed, quartz/quartz and pyrite filled fractures (ama .01' wide).
							Displacements along some fractures ama .01'.
152.5	154.0	100%		1.5'			Dk. gray sandy shale, gradational to sandstone with dk. gray and black shale lenses and clasts (ama .02' wide). All members silicified. Ama 5-8% pyrite, lenses ama .02' wide/nodules (ama .04' diam.).
							Very closely spaced, mostly sealed, quartz/carbon filled fractures.
154.0	156.0	100%		2.0'			Med. to dk. gray, very sandy shale with lenses and clasts (ama .07' wide) dk. gray and black shale.

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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
154.0	156.0						All members silicified. Ama 4-5% pyrite locally, disseminated in lenses (ama .05' wide)/along bedding planes/nodules (ama .02' diam.) Very closely spaced, mostly sealed, quartz (ama .07' wide)/quartz and pyrite/carbon filled fract- ures. Change in bedding attitude along fractures.
156.0	164.0	100%					Med. to dk. gray sandy shale with lenses (ama .22' wide) dk. gray and black shale. Lenses locally contain carbon rich nodules (ama .02' diam.) and nodular lenses (ama .03' wide) partially to comp- letely replaced by barite. Locally ama 3-4% pyrite, finely disseminated/nodules (ama .01' diam) /between contacts/lenses <.01' wide/along bedding. 156.6 - 156.8 <3% 156.8 - 157.3 157.3 - 157.4 25-35% 157.4 - 157.7 <1% 157.7 - 158.3 158.3 - 159.6 3-4%

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FROM	TO			Sp. Gr.	Ba\$04	Cond.	
164.5	167.0	100%		2.5'			Interbedded, slightly silicified, dk. gray and black shales containing nodules (ama .02' diam.) partially replaced by barite. Locally ama 1-2% disseminated pyrite. Core very broken 166.0 - 167.0.
							164.5 - 165.1 <4%
							Very closely spaced, mostly sealed, quartz/quartz, barite, and pyrite filled fractures (ama .04' wide)
167.0	168.0	90%		.9'			Interbedded, silicified, dk. gray and black shales containing nodules (ama .03' diam.) replaced by barite. Locally ama 1-2% disseminated pyrite.
							166.8 - 167.2 25-35%
							167.2 - 167.9 <3%
							Very closely spaced, sealed, quartz/quartz and pyrite filled fractures (ama .02' wide).
168.0	176.0	100%		8.0'			Interbedded, slightly silicified, dk. gray and black shales containing nodules (ama .04' diam.) and nodular lenses (ama .03' wide) partially to

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FROM	TO			Sp. Gr.	BaSO ₄	Cond.	
168.0	176.0						174.9 - 175.2 5-10%
							175.2 - 175.8 15-25%
							Very closely spaced, mostly sealed, barite (ama .01
							wide)/barite, quartz, and pyrite filled fractures.
							Offsets in bedding from 171.0 - 172.0 ama .07'.
176.0	185.5	98%		1.5'			Interbedded dk. gray and black shales, slightly
							silicified, containing nodules (ama .04' diam.)
							and nodular lenses (ama .02' wide) replaced by
							barite. Locally ama 2-3% pyrite, lenses ama .01'
							wide/disseminated.
							175.8 - 176.6 35-45%
							176.6 - 176.8 <5%
							176.8 - 177.3 <1%
							177.3 - 177.5 10-20%
				1.3'			Dk. gray and black shales, locally containing
							carbon rich nodules (ama .03' diam.) partially
							replaced by barite (<2%).
				6.7'			Dk. gray sandy shale, gradational to sandstone
							181.3 - 183.6, with lenses and clasts (ama .04'



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FROM	TO			Sp. Gr.	Ba\$04	Cond.	
176.0	185.5						wide) dk. gray and black shale and lt. gray sandy shale lenses (ama .02' wide) 183.5 - 185.5 (banded appearance). Locally ama 1-2% disseminated pyrite.
185.5	192.5	100%		2.5'			Interbedded dk. gray and black shales with lt. gray sandy shale lenses (ama .06' wide). Sandy shale lenses partially replaced by barite. Banded appearance. Ama 1-2% pyrite between contacts.
							185.5 - 185.7 5-10%
							185.7 - 185.9
							185.9 - 186.1 5-10%
							186.1 - 186.7 <3%
							186.7 - 186.8 5-10%
							186.8 - 188.0 <2%
							Moderately closely spaced, sealed, lt. yellow, barite filled fractures 183.5 - 188.0.
				4.5'			Barite replacing nodules (ama .05' diam.) and nodular lenses (ama .06' wide) in black shale with dk. gray sandy shale lenses (ama .6' wide).

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188.5	192.5						Locally ama 2-3% pyrite, disseminated/between contacts. Core very broken 191.5 - 192.5.
							188.0 - 188.5 20-25%
							188.5 - 188.9 <1%
							188.9 - 189.5 40-45%
							189.5 - 189.8 10-15%
							189.8 - 190.1 20-30%
							190.1 - 190.4 15-25%
							190.4 - 191.1 20-30%
							191.1 - 192.5 10-20%
							Sealed, barite crystal lined fractures at 190.5.
192.5	193.5	70%		.7'			Barite replacing nodules (ama .03' diam.) and nodular lenses (ama .02' wide) in interbedded dk. gray and black shales. Ama 1-2% pyrite, rimming nodules/disseminated.
							.2' 35-45%
							.5' 5-10%
193.5	203.5	68%		6.8'			Barite replacing nodules (ama .04' diam.) and

DRILL HOLE RECORD

Drill Hole No.: MDDH-74 Inclination: _____

Date: _____

Property: Fancy Hill

Drilled By: _____

Co-ordinates: North _____ East _____

Logged By: _____

Elevation: _____

Total Depth: _____

[illegible]

DRILL HOLE RECORD

 Drill Hole No.: MDDH-14 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.	
193.5	203.5						.3' 35-45%
							.3' 25-35%
							.6' 45-55%
							.3' 20-25%
							Core loss (?)
							.1' 25-35%
203.5	204.5	100%		1.0'			Barite replacing nodules (ama .04' diam.) and nodular lenses (ama .03' wide) in dk. gray sandy shale with black shale lenses (ama .08' wide). Locally ama 1-2% pyrite, disseminated/rimming nodules.
							203.5 - 203.7 65-75%
							203.7 - 203.9 45-55%
							203.9 - 204.0 10-15%
							204.0 - 204.2 35-45%
							204.2 - 204.4 5-10%
							204.4 - 204.5 20-30%
							Very closely spaced, mostly sealed, barite crystal filled fractures, mostly subparallel to bedding.

DRILL HOLE RECORD

Drill Hole No.: MDDH-14 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.	
204.5	213.0	100%		8.5'			Barite replacing nodules (ama .04' diam.) and modular lenses (ama .16' wide) in med. gray sandy shale with dk. gray and black shale lenses (ama .22' wide). Locally ama 2-3% pyrite, disseminated/lenses <.01' wide/rimming nodules.
							204.5 - 204.7 5-10%
							204.7 - 205.4 25-35%
							205.4 - 205.9 <2%
							205.9 - 206.0 35-45%
							206.0 - 206.1 15-20%
							206.1 - 206.2 40-50%
							206.2 - 206.6 25-35%
							206.6 - 206.9 50-60%
							206.9 - 207.0 25-35%
							207.0 - 207.3 50-60%
							207.3 - 207.5 5-10%
							207.5 - 207.7 60-70%
							207.7 - 208.1 45-55%
							208.1 - 208.9 50-60%
							208.9 - 209.1 <5%

DRILL HOLE RECORD

Drill Hole No.: MDDH-14 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.	
204.5	213.0						209.1 - 209.2 5-15%
							209.2 - 209.7 25-35%
							209.7 - 209.8 60-70%
							209.8 - 210.2 25-35%
							210.2 - 210.7 70-80%
							210.7 - 210.8 35-45%
							210.8 - 211.2 65-75%
							211.2 - 211.3 50-60%
							211.3 - 211.5 65-75%
							211.5 - 211.8 5%
							211.8 - 211.9 <5-10%
							211.9 - 212.3 shale
							212.3 - 212.8 5-10%
							212.8 - 212.9 shale
							212.9 - 213.0 25-35%
213.0	222.5	100%		9.5'			Barite replacing nodules (ama .06' diam.) and nodular lenses (ama .3'+ wide) in med. gray sandy shale with dk. gray and black shale lenses (ama .6' wide). Locally ama 2-3% pyrite, disseminated/

DRILL HOLE RECORD

Drill Hole No.: MDDH-14 Inclination: _____

Date: _____

Property: Fancy Hill

Drilled By: _____

Co-ordinates: North _____ East _____

Logged By: _____

Elevation: _____

Total Depth: _____

[illegible]

DRILL HOLE RECORD

Drill Hole No.: MDDH-14 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.	
213.0	222.5						219.7 - 219.9 15-25%
							219.9 - 220.6 35-45%
							220.6 - 220.8 5-10%
							220.8 - 221.2 65-75%
							221.2 - 221.8 40-50%
							221.8 - 222.1 60-70%
							222.1 - 222.4 40-50%
							222.4 - 222.5 70-80%
							Moderately closely to very closely spaced, sealed, barite crystal filled fractures.
222.5	232.5	96%		3.7'			Barite replacing nodules (ama .04' diam.) and nodular lenses (ama .09' wide) in med. to dk. gray sandy shale with dk. gray and black shale lenses (ama .12' wide). Locally ama 3-4% pyrite, dis- seminated/lenses (.01' wide)/rimming nodules/ along bedding planes. Locally crystalline barite along bedding planes. 222.5 - 222.9 70-80% 222.9 - 223.2 <3%

DRILL HOLE RECORD

Drill Hole No.: MDDH-14 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.	
222.5	232.5						223.2 - 223.4 25-35%
							223.4 - 223.5 15-25%
							223.5 - 223.7 20-30%
							223.7 - 223.8 25-35%
							223.8 - 224.0 15-20%
							224.0 - 224.4 15-25%
							224.4 - 224.6 30-40%
							224.6 - 224.8 5-10%
							224.8 - 225.1 25-35%
							225.1 - 226.1 75-85%
							Core loss interval (?)
				5.9'			Med. to dk. gray and black shales with lt. to med. gray sandy shale lenses (ama .14' wide). Locally lenses contain scattered nodules (ama .06' diam.) and nodular lenses (ama .02' wide), partially to completely replaced by barite. Locally ama 4-5% pyrite, disseminated/nodules (ama .01' diam.)/ lenses (<.01' wide)/between contacts. .4' <1% 1.6' <3%



MINERAL DIVISION

FANCY HILL, ARKANSAS

DRILL HOLE RECORD

Drill Hole No.: MDDH-14 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.	
222.5	232.5						.2' 15-20%
							.4' 2-3%
							.5' <3%
							.4' shale
							.1' <3%
							.3' 4-6%
							.9' <1%
							.2' 3-5%
							.1' shale
							.8' 5-7%
							Moderately closely to very closely spaced, mostly sealed, barite filled fractures. Slickensides with barite and pyrite at 232.0.
232.5	239.5	100%		7.0'			Interbedded lt. to med. to dk. gray and black shales (texture locally more similar to claystone) containing scattered (ama 2-3%) carbon rich nod- ules, some partially replaced by barite (<1%). Locally ama 4-5% pyrite, disseminated/lenses (ama .01' wide)/nodules (ama .01' diam.)/between con-



MINERAL DIVISION

FANCY HILL, ARKANSAS

DRILL HOLE RECORD

Drill Hole No.: MDDH-14 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.	
232.5	239.5						tacts/along bedding planes. Locally barite along bedding planes.
239.5	243.0	97%		3.4'			Interbedded med. to dk. gray and black shales. Locally ama 3-4% pyrite, disseminated/along bedding planes/lenses <.01' wide.
243.0	246.5	97%		3.4'			Interbedded med. to dk. gray and black shales (lenses ama .5' wide). Locally ama 2-3% pyrite, scattered nodules (ama .02' diam.)/along bedding planes. Core very broken 245.5 - 246.5. Very closely spaced, mostly sealed, lt. yellow barite filled fractures.
246.5	256.0	96%		9.1'			Interbedded med. to dk. gray and black shales (lenses ama .6' wide). Silicified 247.5 - 256.0. Locally ama 3-4% pyrite, lenses ama .01' wide/along bedding planes/between contacts. Lt. gray chert clast (.05' wide) at 247.5. Closely to very closely spaced, unmineralized



MINERAL DIVISION

FANCY HILL, ARKANSAS

DRILL HOLE RECORD

Drill Hole No.: MDDH-14 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.	
246.5	256.0						fractures. Very closely spaced, mostly sealed, lt. yellow, barite filled fractures.
256.0	259.0	100%		3.0'			Interbedded, silicified, black and med. to dk. gray shales (lenses ama .5' wide). Locally ama 3-4% pyrite, lenses ama .01' diam./scattered nodules ama .01' diam./between contacts/along bedding planes.
							Very closely spaced, mostly sealed, quartz filled fractures. At 258.0 fractures show slickensides with vein type quartz and pyrite.
259.0	263.0	95%		3.8'			Interbedded, silicified, med. to dk. gray and black shales (lenses ama .18' wide). Locally ama 2-3% pyrite, scattered nodules (ama .01' diam.)/disseminated/lenses (<.01' wide).
263.0	265.0	100%		2.0'			Interbedded, silicified, med. to dk. gray and black shales (lenses ama .7' wide). Locally ama 3-4% FeS ₂ , lenses (<.01' wide)/nodules (ama .01' wide)/

DRILL HOLE RECORD

Drill Hole No.: MDDH-14 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.	
263.0	265.0						between contacts/along bedding planes. Moderately closely spaced, sealed, barite filled fractures, subparallel to bedding 261.0 - 265.0.
265.0	267.5	100%		2.5'			Med. to dk. gray with interbedded black shales (black shale lenses ama .17' wide). Locally ama 3-5% pyrite, nodules ama .02' diam./disseminated/lenses .01' wide/along bedding planes/between contacts (locally oxidized).
267.5	269.0	100%		.5'			Med. gray shale with black shale lens .05' wide. Locally ama 3-4% pyrite, disseminated/nodules (ama .01' diam.)/along bedding planes/between contacts.
				.9'			Med. gray clayey shale with black shale lenses (ama .04' wide).
				.1'			Very closely spaced, unmineralized fractures. Dk. gray to black chert. Contains pyrite veinlets (ama .01' wide).

FANCY HILL, ARKANSAS

DRILL HOLE RECORD

Drill Hole No.: MDDH-14 Inclination:

Date: _____

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Co-ordinates: North _____ East _____

Logged By: _____

Elevation: _____

Total Depth: _____

[illegible]

SAMPLE	LOG #	DEPTH	INTERVAL	CALCULATED SPECIFIC GRAVITY	X-RAY % BaSO ₄
MDDH-14					
#1	681	188.0-191.9	3.90	3.371	47.3
#2	682	191.9-195.8	3.90	3.289	42.0
#3	683	195.8-199.7	3.90	3.430	51.0
#4	684	199.7-203.6	3.90	3.387	48.3
#5	685	203.6-207.5	3.90	3.314	43.6
#6	686	207.5-211.4	3.90	3.470	53.4
#7	687	211.4-215.3	3.90	3.300	42.7
#8	688	215.3-219.2	3.90	3.371	47.3
#9	689	219.2-223.1	3.90	3.496	55.0
#10	690	223.1-226.1	3.00	3.286	41.8
#1A		*156.6-164.5	7.90	2.959	17.51
#2A		*164.5-168.0	3.50	2.982	19.33
#3A		*168.0-178.0	10.00	3.160	33.00
#4A		*178.0-188.0	10.00	2.801	3.68
#5A		226.1-232.5	6.40	2.922	14.34
#6		232.5-239.5	7.00	2.795	3.13
COMPOSITE		CALCULATED	82.90	3.14	31.46
*Not included in composite measured.					