

DRILL HOLE RECORD

Drill Hole No.: MDDH-9 Inclination: 54 N20E

Date: Started 3/9/1977 - completed 3/20/1977

Property: Fancy Hill

Drilled By: Sam Grathler - Sprague & Henwood

Co-ordinates: North 629,543.40 East 1,448,766.25 (7/13)  
78

Logged By: Les Farrington

Elevation: \_\_\_\_\_

Total Depth: 284'

DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	Bo504	Cond.	
0.0	6.0	8%		.5'			Alluvium; chert. Estimate alluvium to .5' depth.
6.0	8.0	5%		.1'			Med. gray clayey shale.
8.0	14.0	2%		.1'			Fragments of dk. gray clayey shale and dk. orange iron stained sandy shale.
14.0	18.0	58%		2.3'			Very sandy shale, bleached white and locally stained dk. orange by iron oxides, with lenses and clasts (ama .03' wide) dk. gray shale. Both partially altered to clays.
							Very closely spaced, mostly sealed, heavily iron and manganese oxide stained fractures (ama .03' wide). Displacements locally in bedding along fractures ama .06'.
18.0	23.0	80%		4.0'			Sandstone, gradational to <sup>sky</sup> sandy shale and locally stained dk. orange by iron oxides, with lenses and clasts dk. gray shale. Both partially altered to clays.

NOTE: 5/12/77 MINERAL REFERRED TO AS SCORODITE IS CHLORITE

BLACK COLOR TERMED "CARBON" IS INCLUSIONS IN OR DISCOLORATION OF CRYSTALLINE MATERIAL

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Elevation: \_\_\_\_\_

Total Depth: \_\_\_\_\_

DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO4	Cond.	
18.0	23.0						Very closely spaced, open and sealed, heavily iron/manganese oxide stained fractures (ama .02' wide).
23.0	33.0	95%		9.5'			Interbedded lt. and med. gray sandstone, mottled by lt. gray lenses, locally gradational to very sandy shale, with clasts and lenses (ama .03' wide) dk. gray sandy shale and med. and dk. gray shale. Locally lenses stained dk. orange by iron oxides.
							Very closely spaced, sealed and open, locally heavily iron/manganese oxide stained, barite/carbon filled fractures.
33.0	43.0	100%		10.0'			Med. gray sandstone, mottled by lt. gray lenses, locally gradational to very sandy shale, with clasts (ama .13' wide) dk. gray and black shale. Locally lenses stained dk. orange by iron oxides.
							Closely to very spaced, sealed and open, heavily iron/manganese oxide stained, barite crystal/

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DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO4	Cond.	
33.0	43.0						barite/barite and carbon filled fractures (ama .01' wide).
43.0	53.0	100%		5.3'			Interbedded med. and dk. gray very sandy shales and med. gray sandstone with scattered clasts (ama .02' wide) black shale.
							Closely to very closely spaced, sealed and open, barite/carbon filled fractures. Barite and pyrite coated slickensides along contact at 46.3.
				4.7'			Interbedded lt and med. gray sandstone with lenses (ama .13' wide) dk. gray and black shales and sandy shales.
							Closely to very closely spaced, open and sealed, iron stained barite crystal lined fractures.
53.0	63.0	98%		7.0'			Med. gray sandstone, mottled by lt. gray lenses, with isolated lenses (ama .1' wide) dk. gray sandy shale. Locally very friable. Locally ama 2-5% disseminated pyrite.

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DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO <sub>4</sub>	Cond.	
53.0	63.0						Very closely spaced, sealed and open, carbon/ carbon and barite filled fractures.
				2.8'			Lt. and med. gray sandstone with dk. gray and black shale lenses and clasts (ama .07' wide). Locally ama 5-15% pyrite, nodules (ama .04' diam. /disseminated.
							Very closely spaced, mostly sealed, barite/car- bon filled fractures.
63.0	73.0	100%		1.3'			Lt. and med. gray sandstone with dk. gray and black shale lenses and clasts (ama .07' wide). Very closely spaced, open and sealed, carbon/ barite filled fractures.
				6.2'			Med., dk. gray, and black shales with lenses (ama .04' wide) lt. and med. gray sandstone and sandy shale. Locally ama 3-10% pyrite, scattered nodules (ama .03' diam.)/along bedding planes/ disseminated.
				2.5'			Med. gray sandstone, gradational to very sandy shale, with clasts (ama .03' wide) dk. gray and

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DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO4	Cond.	
63.0	73.0						black shale. Locally ama 5-15% pyrite, nodules (ama .04' diam.)/disseminated.
							Closely spaced, barite and pyrite filled fractures.
73.0	82.5	97%		.3'			Med. gray sandstone, gradational to very sandy shale.
				8.9'			Interbedded lt., med., dk. gray, and black shales with lenses (ama .15' wide) med. and dk. gray sandy shale. Locally lenses contain nodules (ama .03' diam.) partially <sup>is COMPLETELY</sup> replaced by barite.
							Locally ama 2-10% pyrite, disseminated/along bedding/between contacts/scattered nodules (ama .02' diam.)/rimming nodules.
							74.3 - 75.7 1%
							77.4 - 78.0 5-10%
							79.6 - 79.9 5-10%, 35-45% nodules
							79.9 - 80.4 15-25%
							81.0 - 81.2 5-10%, 30-40% nodules
							Very closely spaced, sealed and open, barite/

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Elevation: \_\_\_\_\_

Total Depth: \_\_\_\_\_

DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO <sub>4</sub>	Cond.	
144.5	155.0						148.1 - 148.3 5-15%
							148.3 - 148.4 70-80%
							148.4 - 148.6 55-65%
							148.6 - 148.9 20-30%
							148.9 - 149.1 3-8%
							149.1 - 149.4 50-60%
							149.4 - 149.6 25-35%
							149.6 - 149.7 40-50%
							149.7 - 149.8 5-10%
							149.8 - 150.0 15-25%
							150.0 - 150.1 5-15%
							150.1 - 150.5 60-70%
							150.5 - 150.6 1-3%
							150.6 - 150.8 75-85%
							150.8 - 150.9 45-55%
							150.9 - 151.0 15-25%
							151.0 - 151.1 45-55%
							151.1 - 151.4 40-45%
							151.4 - 151.6 55-65%
							151.6 - 151.8 5-15%



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FROM	TO			Sp. Gr.	BaSO <sub>4</sub>	Cond.	
73.0	82.5						barite and pyrite/carbon and barite filled fractures.
82.5	89.5	79%		5.5'			Interbedded lt., med., dk. gray, and black clayey shales with isolated lenses (ama .16' wide) dk. gray and black sandy shale. Lenses contain ama 5-10% lt. gray sandy shale nodules (ama .03' diam.) locally. Core loss in lt. and dk. gray claystone interbedded with shales. Very closely spaced, sealed and open, barite crystal/barite filled fractures.
89.5	92.0	100%		2.5'			Interbedded lt., med., and dk. gray clayey shales with lenses (ama .01' wide) lt. and dk. gray sandy shale. Lenses locally contain scattered med. and dk. gray nodules (ama .02' diam.). Locally ama 2-5% pyrite, nodules (ama .02' diam.) /along bedding planes.
92.0	102.0	100%		6.5'			Interbedded lt., med., and dk. gray clayey

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FROM	TO			Sp. Gr.	BaSO4	Cond.	
92.0	102.0						shales with lenses (ama .12' wide) med. gray sandy shale. Contain scattered dk. gray nodules (ama .03' diam.). Locally ama 2-4% pyrite, disseminated/along bedding/rimming nodules/nodules ama .01' diam.
							Closely spaced, open, barite and pyrite filled fractures.
				3.5'			Med. gray very sandy shale, locally gradational to sandstone, with lenses and clasts (ama .11' wide) med. and dk. gray shale and lt. gray sandstone (sandstone lenses ama .04' wide). Locally ama 2-3% pyrite, disseminated/along bedding/nodules (ama .02' diam.).
							Very closely spaced, sealed, carbon and barite filled fractures at 100.5.
102.0	109.5	100%		7.5'			Med. gray, very sandy shale, locally gradational to sandstone (sandstone 103.0 - 104.5) with lenses and clasts (ama .4+' wide) black shale. Locally ama 1-3% pyrite, disseminated/along



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DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO4	Cond.	
102.0	109.5						bedding planes. Closely to very closely spaced, sealed and open, barite/barite and pyrite/carbon and barite fill- ed fractures.
109.5	116.5	100%		1.5'			Med. gray sandy shale with clasts (ama .02' wide) dk. gray shale.
				5.5'			Interbedded med. and dk. gray shales with lenses (ama .15' wide) med. and dk. gray sandy shale and lenses (ama .02' wide 113.0 - 116.5). <sup>at 113.0' SANDY SHALE</sup> Banded appearance 113.0 - 116.5. Lenses locally con- tain ama 2-5% dk. gray nodules (ama .01' diam.) partially replaced by barite (<1%). Locally ama 5-10% disseminated pyrite. Very closely spaced, mostly sealed, barite fill- ed fractures.
116.5	126.5	100%		6.5'			Med. and dk. gray sandy shales with lenses (ama .05' wide) dk. gray and black shale and lenses (ama .06' wide) lt. gray sandy shale. Med. gray

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DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO4	Cond.	
116.5	126.5						124.8 - 125.1 55-65%
							125.1 - 125.3 45-55%
							125.3 - 125.5 50-60%
							125.5 - 125.8 40-50%
							125.8 - 126.0 30-40%
							126.0 - 126.2 70-80%
							126.2 - 126.3 60-70%
							Very closely spaced, sealed and open, barite crystal lined fractures.
126.5	134.0	100%		8.0'			Barite nodules (ama .03' diam) and nodular lenses (ama .06' wide) in interbedded med. and dk. gray sandy shales and med., dk. gray, and black shales and med. gray, slightly calcareous sandstone. Locally ama 1-2% pyrite, disseminated/along bedding planes.
							126.3 - 126.6 20-30%
							126.6 - 126.8 3-8%
							126.8 - 126.9 25-35%
							126.9 - 127.2 35-45%

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DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO4	Cond.	
126.5	134.0						127.2 - 127.4 20-30%
							127.4 - 127.6 5-10%
							127.6 - 127.8 5-15%
							127.8 - 127.9 5-10%
							127.9 - 128.4 60-70%
							128.4 - 128.5 35-45%
							128.5 - 128.7 25-35%
							128.7 - 129.0 45-55%
							129.0 - 129.1 <2%
							129.1 - 129.4 30-40%
							129.4 - 129.7 10-20%
							129.7 - 129.9 35-45%
							129.9 - 130.0 65-75%
							130.0 - 130.2 calcareous sandstone
							130.2 - 130.3 65-75%
							130.3 - 130.9 10-15%
							130.9 - 131.0 70-80%
							131.0 - 132.2 5-15%
							132.2 - 132.3 shale
							132.3 - 132.5 35-45%

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DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	B <sub>g</sub> 304	Cond.	
126.5	134.0						132.5 - 132.7 70-80%
							132.7 - 133.0 10-20%
							133.0 - 133.3 60-70%
							133.3 - 133.4 40-50%
							133.4 - 133.6 10-20%
							133.6 - 133.8 60-70%
							133.8 - 134.1 3-5%
							134.1 - 134.3 35-45%
							Closely to very closely spaced, sealed and open,
							barite/barite crystal filled fractures. Very
							closely spaced, sealed, carbon/quartz crystal
							(ama .01' wide) filled fractures 130.3 - 131.0.
134.5	144.5	100%		10.0"			Barite nodules (ama .05' diam.) and nodular len-
							ses (ama .16' wide) in interbedded med., dk.
							gray and black shales and med. and dk. gray sand
							shales. Locally ama 1-3% pyrite, disseminated/
							between contacts/along bedding planes/rimming
							nodules.
							134.3 - 134.6 35-45%

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FROM	TO			Sp. Gr.	BaSO4	Cond.	
116.5	126.5						sandy shale has nodular appearance. Banded appearance. Locally lenses contain ama 5-15% carbon rich nodules and clasts (ama .01' diam.). Locally ama 2-3% pyrite, disseminated/between contacts/along bedding planes. Closely to very closely spaced, mostly sealed, barite/carbon filled fractures. Slickensides at 122.5.
				1.8'			Nodules (ama .03' diam.) partially replaced by barite in interbedded med., dk. gray, and black shales.
							123.0 - 123.3 5-15%
							123.3 - 123.9 5-10%
							123.9 - 124.1 5-15%
							124.1 - 124.6 10-20%
							124.6 - 124.7 20-30%
							124.7 - 124.8 3-8%
				1.6'			Barite nodules (ama .03' diam.) and nodular lenses (ama .1' wide) in med. gray sandy shale with dk. gray shale lenses (ama .15' wide).

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DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO <sub>4</sub>	Conc.	
134.5	144.5						134.6 - 135.1 10-20%
							135.1 - 135.3 40-50%
							135.3 - 135.5 55-65%
							135.5 - 135.8 3-5%
							135.8 - 135.9 40-50%
							135.9 - 136.3 70-80%
							136.3 - 136.8 25-35%
							136.8 - 137.0 10-20%
							137.0 - 137.6 30-35%
							137.6 - 137.8 20-25%
							137.8 - 138.1 3-5%
							138.1 - 138.3 55-65%
							138.3 - 138.5 35-45%
							138.5 - 138.6 15-25%
							138.6 - 138.8 40-45%
							138.8 - 139.0 15-25%
							139.0 - 139.3 35-45%
							139.3 - 139.4 5-15%
							139.4 - 139.6 10-20%
							139.6 - 140.1 35-45%



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FROM	TO			Sp. Gr.	BaSO <sub>4</sub>	Cond.	
134.5	144.5						140.1 - 140.9 20-30%
							140.9 - 141.1 40-50%
							141.1 - 141.3 3-8%
							141.3 - 141.4 40-50%
							141.4 - 141.5 25-35%
							141.5 - 141.7 5-15%
							141.7 - 141.9 40-45%
							141.9 - 142.4 35-40%
							142.4 - 142.6 15-25%
							142.6 - 143.0 50-60%
							143.0 - 143.2 20-30%
							143.2 - 143.5 60-70%
							143.5 - 144.1 50-60%
							Closely to very closely spaced, sealed and open, barite filled fractures.
144.5	155.0	98%		10.3'			Barite nodules (ama .02' diam.) and nodular len- ses (ama .1' wide) in interbedded med. and dk. gray shales, and medium, dk. gray, and black shales. Locally ama 2-3% pyrite, disseminated/

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FROM	TO			Sp. Gr.	BaSO <sub>4</sub>	Cond.	
144.5	155.0						between contacts/along bedding planes/rimming nodules.
							144.1 - 144.3 15-25%
							144.3 - 144.6 65-75%
							144.6 - 144.8 40-50%
							144.8 - 145.0 1-3%
							145.0 - 145.1 5-10%
							145.1 - 145.4 60-70%
							145.4 - 145.6 20-30%
							145.6 - 145.7 25-35%
							145.7 - 145.9 1-3%
							145.9 - 146.2 35-45%
							146.2 - 146.4 40-50%
							146.4 - 146.7 30-40%
							146.7 - 146.8 15-25%
							146.8 - 147.0 1-3%
							147.0 - 147.2 60-70%
							147.2 - 147.5 50-55%
							147.5 - 147.7 70-80%
							147.7 - 148.1 60-70%

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FROM	TO			Sp. Gr.	BaSO <sub>4</sub>	Cond.	
144.5	155.0						151.8 - 152.0 55-65%
							152.0 - 152.3 5-10%
							152.3 - 152.6 45-55%
							152.6 - 152.9 75-85%
							152.9 - 153.0 1-3%
							153.0 - 153.4 45-55%
							153.4 - 153.6 20-30%
							Slipped 1' core, recovered .6'
							.4' 25-35%
							.1' 15-25%
							.1' 50-60%
							Closely to very closely spaced, sealed and open,
							barite filled fractures. Very closely spaced,
							sealed, carbon filled fractures 151.5 - 152.3.
155.0	163.0	100%		8.0'			Barite nodules (ama .03' diam.) and nodular
							lenses (ama .02' wide) in interbedded lt., med.,
							and dk. gray sandy shale and med., dk. gray, and
							black shales. Locally ama 2-3% pyrite, dissem-
							inated/lenses (<.01' wide)/between contacts/

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FROM	TO			Sp. Gr.	BaSO <sub>4</sub>	Cond.	
155.0	163.0						along bedding planes.
							154.8 - 154.9 50-60%
							154.9 - 155.0 5-15%
							155.0 - 155.1 30-40%
							155.1 - 155.3 5-15%
							155.3 - 155.4 35-45%
							155.4 - 155.7 3-8%
							155.7 - 156.1 45-55%
							156.1 - 156.2 15-25%
							156.2 - 156.3 2-5%
							156.3 - 156.4 50-60%
							156.4 - 156.8 45-55%
							156.8 - 157.1 35-45%
							157.1 - 157.2 3-8%
							157.2 - 157.3 50-60%
							157.3 - 157.4 2%
							157.4 - 157.6 15-20%
							157.6 - 157.7 10-20%
							157.7 - 158.1 40-50%
							158.1 - 158.6 50-60%

## DRILL HOLE RECORD

Drill Hole No.: MDDH-9 Inclination: \_\_\_\_\_

Date: \_\_\_\_\_

Property: \_\_\_\_\_

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 <sub>4</sub>	Cond.	
155.0	163.0						158.6 - 159.1 10-20%
							159.1 - 159.3 25-35%
							159.3 - 159.6 5-15%
							159.6 - 159.7 40-50%
							159.7 - 159.9 10-20%
							159.9 - 160.2 50-60%
							160.2 - 160.3 10-20%
							160.3 - 160.4 shale
							160.4 - 160.8 45-55%
							160.8 - 161.0 35-45%
							161.0 - 161.2 15-25%
							161.2 - 161.3 20-30%
							161.3 - 161.4 40-50%
							161.4 - 161.5 20-30%
							161.5 - 161.6 25-35%
							161.6 - 161.8 35-45%
							161.8 - 162.2 20-30%
							162.2 - 162.3 40-50%
							162.3 - 162.4 shale
							162.4 - 162.5 30-35%

## DRILL HOLE RECORD

Drill Hole No.: MDDH-9 Inclination: \_\_\_\_\_

Date: \_\_\_\_\_

Property: \_\_\_\_\_

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.	
155.0	163.0						162.5 - 162.7 10-20%
							162.7 - 162.9 30-40%
							162.9 - 163.0 45-55%
							163.0 - 163.1 70-80%
							Closely to very closely spaced, sealed and open,
							barite filled fractures. Locally very closely
							spaced, sealed, carbon filled fractures.
163.0	172.0	100%		9.0'			Barite nodules (ama .04' diam.) and nodular len-
							ses (ama .03' wide) in interbedded med., dk.
							gray, and black shales and med. and dk. gray
							sandy shales. Locally ama 2-4% pyrite, dissem-
							inated/between contacts/along bedding planes/
							rimming nodules.
							163.1 - 163.3 45-55%
							163.3 - 163.4 60-70%
							163.4 - 163.7 30-40%
							163.7 - 164.1 5-15%
							164.1 - 164.3 50-60%
							164.3 - 164.7 35-45%





MINERAL DIVISION

FANCY HILL, ARKANSAS

## DRILL HOLE RECORD

Drill Hole No.: MDDH-9 Inclination: \_\_\_\_\_

Date: \_\_\_\_\_

Property: \_\_\_\_\_

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 <sub>4</sub>	Cond.	
163.0	172.0						164.7 - 164.9 20-30%
							164.9 - 165.0 65-75%
							165.0 - 165.4 50-60%
							165.4 - 167.2 40-50%
							167.2 - 167.4 10-20%
							167.4 - 167.9 shale
							167.9 - 168.0 20-30%
							168.0 - 168.2 45-55%
							168.2 - 168.3 5-15%
							168.3 - 168.5 30-40%
							168.5 - 168.6 5-15%
							168.6 - 168.7 30-40%
							168.7 - 168.9 10-15%
							168.9 - 169.1 15-25%
							169.1 - 169.7 5-15%
							169.7 - 169.8 shale
							169.8 - 170.5 5-10%
							170.5 - 170.8 35-45%
							170.8 - 171.2 50-60%
							171.2 - 171.4 40-50%

**DRILL HOLE RECORD**

Drill Hole No.: MDDH-9 Inclination: \_\_\_\_\_

Date: \_\_\_\_\_

Property: \_\_\_\_\_

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.	
163.0	172.0						171.4 - 171.6 25-35%
							171.6 - 172.0 shale
							172.0 - 172.2 30-35%
							Closely to very closely spaced, sealed and open,
							barite crystal/barite filled fractures. Dis-
							placement in bedding along fractures at 165.0
							and 167.2, amount undetermined.
172.0	177.5	100%		1.8'			Barite nodules (ama .01' diam.) and nodular
							lenses (ama .04' wide) in interbedded dk. gray
							sandy shale and dk. gray and black shales. Loc-
							ally ama 2-3% pyrite, between contacts/along
							bedding planes.
							172.2 - 172.7 50-60%
							172.7 - 172.9 65-75%
							172.9 - 173.1 20-30%
							173.1 - 173.3 30-35%
							173.3 - 174.0 3-8%
							Very closely spaced, mostly sealed, barite
							crystal/barite and carbon (ama .01' wide) fract-

DRILL HOLE RECORD

Drill Hole No.: MDDH-9 Inclination: \_\_\_\_\_

Date: \_\_\_\_\_

Property: \_\_\_\_\_

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 <sub>4</sub>	Cond.	
172.0	177.5						ures.
				1.8'			Med. and dk. gray shales, locally slightly sandy, with isolated dk. gray sandy shale nodules (ama .02' diam.).
							Very closely spaced, sealed and open, barite/ carbon and barite filled fractures.
				1.9'			Black, graphitic shale. Core very broken.
							Extremely closely spaced, open, barite coated/ unmineralized fractures.
177.5	186.5	100%		9.0'			Interbedded med., dk. gray, and black shales, locally slightly sandy, with scattered lenses (ama .03' wide) med. gray sandy shale and narrow lenses (<.01' wide) white sandstone at 179.0. Locally ama 2-8% pyrite, nodules (ama .02' diam.) /along bedding/between contacts/disseminated/ lenses (<.01' wide).
							Very closely spaced, sealed and open, barite/ barite and pyrite/carbon filled fractures. Loc- ally offsets in bedding along fractures <.01' -

**DRILL HOLE RECORD**

Drill Hole No. MDDH-9 Inclination: \_\_\_\_\_

Date: \_\_\_\_\_

Property: \_\_\_\_\_

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.	
177.5	186.5						.03'.
186.5	193.5	100%		7.0'			Interbedded med., dk. gray, and black shales, locally slightly sandy, with scattered lenses (ama .18' wide) dk. gray sandy shale and lenses (<.01' wide) white sandstone 188.8 - 189.0. Locally ama 2-6% pyrite, between contacts/disseminated/along bedding planes/lenses (<.01' wide).
							Very closely spaced, mostly sealed, barite/barite and pyrite/carbon filled fractures.
							Locally offsets in bedding along fractures ama .01' and in barite filled fractures <.01' - .02'
193.5	198.0	82%		2.3'			Interbedded dk. gray and black shales. Locally ama 3-5% disseminated pyrite.
							Very closely spaced, mostly sealed, carbon filled fractures. Qtz. and pyrite filled fract (.04' wide at 194.6.
				1.4'			Black, graphitic clays with vein type and cryst-

DRILL HOLE RECORD

Drill Hole No.: MDDH-9 Inclination: \_\_\_\_\_

Date: \_\_\_\_\_

Property: \_\_\_\_\_

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.	
206.5	214.0						(ama .01' diam.). Locally ama 2-10% pyrite, between contacts/disseminated/lenses (ama .01' wide).
							Very closely spaced, sealed and open, carbon (ama .01' wide)/carbon and barite/barite and pyrite filled fractures. Displacement in bedding along fracture at 214.0, amount undetermined.
				.2'			Dk. gray clay.
214.0	218.0	100%		1.0'			Dk. gray sandstone with lenses (ama .03' wide) med. gray sandy shale and dk. gray and black claystone.
							Very closely spaced, unmineralized fractures.
				3.0'			Nodular barite lenses (ama .13' wide) and barite nodules (ama .02' diam.) in med. and dk. gray sandy shales with dk. gray and black shale lenses (ama .14' wide).
							215.0 - 215.1 35-45%
							215.1 - 215.6 65-75%



DRILL HOLE RECORD

Drill Hole No.: MDDH-9 Inclination: \_\_\_\_\_

Date: \_\_\_\_\_

Property: \_\_\_\_\_

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.	
193.5	198.0						alline quartz and pyrite (veinlets ama .04' wide Shear (?) zone.
198.0	203.5	94%		5.2'			Black, graphitic clays with fragments dk. gray shale, vein type quartz, and ama 2-4% disseminat ed pyrite. Shear (?) zone.
203.5	206.5	100%		.1'			Black, graphitic clays.
				.9'			Nodular lenses of barite in dk. gray shale.
							.9' 65-75%, change in dip of bedding
				.3'			Black graphitic clays.
				1.7'			Dk. gray shales with lenses black, graphitic shale and med. gray sandy shale (sandy shale lenses ama .03' wide). Core very broken.
206.5	214.0	100%		7.3'			Med. and dk. gray sandy shales, gradational to sandstone 212.0 - 214.0, with lenses and clasts (ama .07' wide) med. and dk. gray shale and lt. gray sandy shale. Banded appearance. Loc- ally lenses contain isolated, carbon rich nodule



## DRILL HOLE RECORD

Drill Hole No.: MDDH-9 Inclination: \_\_\_\_\_

Date: \_\_\_\_\_

Property: \_\_\_\_\_

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.	Bo504	Cond.	
214.0	218.0						215.6 - 216.2 70-80%
							216.2 - 216.4 25-35%
							216.4 - 216.7 70-80%
							216.7 - 216.8 30-40%
							216.8 - 217.0 65-75%
							217.0 - 217.4 35-45%
							217.4 - 217.9 70-80%
							Very closely spaced, sealed and open, barite/ barite and carbon filled fractures.
218.0	225.0	100%		7.0'			Barite nodules (ama .02' diam.) and nodular len- ses (ama .09' wide) in med. and dk. gray sandy shales, gradational to sandstone 219.2 - 220.4, with med. and dk. gray shale lenses (ama .16' wide). Locally ama 1-3% pyrite, disseminated/ between contacts/along bedding planes.
							217.9 - 218.2 70-80%
							218.2 - 218.5 65-75%
							218.5 - 219.3 60-70%
							219.3 - 220.1 40-50%

## DRILL HOLE RECORD

Drill Hole No.: MDDH-9 Inclination: \_\_\_\_\_

Date: \_\_\_\_\_

Property: \_\_\_\_\_

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.	Ba504	Cond.	
218.0	225.0						220.1 - 220.3 10-20%
							220.3 - 220.4 5-10%
							220.4 - 220.8 10-20%
							220.8 - 220.9 60-70%
							220.9 - 221.1 70-80%
							221.1 - 221.3 60-70%
							221.3 - 221.6 70-80%
							221.6 - 221.7 60-70%
							221.7 - 221.8 70-80%
							221.8 - 221.9 25-35%
							221.9 - 222.1 55-65%
							222.1 - 222.3 3-8%
							222.3 - 222.4 5-15%
							222.4 - 222.5 45-55%
							222.5 - 222.6 5-15%
							222.6 - 223.0 60-65%
							223.0 - 223.2 3-8%
							223.2 - 223.5 20-25%
							223.5 - 223.6 45-55%
							223.6 - 223.9 5-15%

## DRILL HOLE RECORD

Drill Hole No.: MDDH-9 Inclination: \_\_\_\_\_

Date: \_\_\_\_\_

Property: \_\_\_\_\_

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.	
218.0	225.0						223.9 - 224.0 50-60%
							224.0 - 224.2 30-40%
							224.2 - 224.5 10-20%
							224.5 - 224.8 40-50%
							224.8 - 225.0 5-15%
							Very closely spaced, sealed and open, barite
							crystal/barite filled fractures.
225.0	230.0	100%		5.0'			Barite nodules (ama .02' diam.) and nodular len-
							ses (ama .03' wide) in interbedded dk. gray and
							black shales and med. and dk. gray sandy shales.
							Locally ama 1-3% pyrite, disseminated/along
							bedding planes/rimming nodules.
							225.0 - 225.1 20-30%
							225.1 - 225.4 3-8%
							225.4 - 225.5 30-40%
							225.5 - 225.7 5-10%
							225.7 - 225.9 30-35%
							225.9 - 226.4 25-35%
							226.4 - 226.6 30-40%

**DRILL HOLE RECORD**

Drill Hole No. MDDH-9 Inclination: \_\_\_\_\_

Date: \_\_\_\_\_

Property: \_\_\_\_\_

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 <sub>4</sub>	Cond.	
225.0	230.0						226.6 - 226.8 5-15%
							226.8 - 227.1 50-60%
							227.1 - 227.3 10-20%
							227.3 - 227.5 15-25%
							227.5 - 227.7 3-8%
							227.7 - 228.3 65-75%
							228.3 - 228.6 55-65%
							228.6 - 228.8 45-55%
							228.8 - 228.9 5-15%
							228.9 - 229.5 55-65%
							229.5 - 229.6 65-75%
							229.6 - 229.9 shale
							Very closely spaced, sealed and open, barite crystal filled fractures.
230.0	234.5	70%		.8			Interbedded med. and dk. gray sandy shales and dk. gray and black shales containing ama 5-10% barite locally. Core very broken.
				.2			Med. gray clays. Fault zone.
				1.1			Brecciated fragments of dk. gray and black shale

## DRILL HOLE RECORD

Drill Hole No.: MDDH-9 Inclination: \_\_\_\_\_

Date: \_\_\_\_\_

Property: \_\_\_\_\_

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 <sub>4</sub>	Cond.	
230.0	234.5						(fragments ama .18' wide) in a dk. gray sandy clay matrix. Fault zone.
				.5'			Med. and dk. gray clays. Fault zone.
				.4'			Barite nodules (ama .01' diam.) and nodular lenses (ama .02' wide) in interbedded med. and dk. gray sandy shales and dk. gray shales. Core very broken.
							234.3 - 234.5 5-15%
							234.5 - 234.7 20-30%
234.5	239.0	100%		4.5'			Barite nodules (ama .02' diam.) and nodular lenses (ama .08' wide) in med. and dk. gray sandy shales, locally gradational to sandstone, with dk. gray and black shale lenses (ama .06' wide). Locally ama 1-2% pyrite, disseminated/between contacts/along bedding planes.
							234.7 - 234.8 10-20%
							234.8 - 235.0 15-25%
							235.0 - 235.2 <2%
							235.2 - 235.3 20-30%



## DRILL HOLE RECORD

Drill Hole No.: MDDH-9 Inclination: \_\_\_\_\_

Date: \_\_\_\_\_

Property: \_\_\_\_\_

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.	
234.5	239.0						235.3 - 235.4 5-10%
							235.4 - 235.5 30-40%
							235.5 - 235.7 dk. gray claystone
							235.7 - 236.0 60-70%
							236.0 - 236.3 15-25%
							236.3 - 236.6 65-75%
							236.6 - 236.8 10-20%
							236.8 - 237.1 45-55%
							237.1 - 237.2 35-45%
							237.2 - 237.3 <2%
							237.3 - 237.7 75-85%
							237.7 - 237.9 70-75%
							237.9 - 238.0 10-20%
							238.0 - 238.2 75-85%
							238.2 - 238.4 5-10%
							238.4 - 238.5 25-35%
							238.5 - 238.6 3-5%
							238.6 - 238.8 50-55%
							Very closely spaced, sealed and open, barite
							crystal (ama .01' wide)/barite filled fractures.



DRILL HOLE RECORD

Drill Hole No.: MDDH-9 Inclination: \_\_\_\_\_

Date: \_\_\_\_\_

Property: \_\_\_\_\_

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.	
239.0	243.5	100%		4.5'			Barite nodules (ama .03' diam.) and nodular lenses (ama .03' wide) in med. and dk. gray sandy shales with dk. gray and black shale lenses (ama .3+' wide). Locally ama 1-3% pyrite, disseminated/between contacts. Core very broken
							242.5 - 243.0.
							238.8 - 239.0 30-40%
							239.0 - 239.1 5-10%
							239.1 - 239.4 35-45%
							239.4 - 239.5 20-25%
							239.5 - 239.6 < 2%
							239.6 - 239.8 65-75%
							239.8 - 240.1 60-65%
							240.1 - 240.6 55-60%
							240.6 - 240.8 45-55%
							240.8 - 241.0 55-65%
							241.0 - 241.2 50-55%
							241.2 - 241.8 60-65%
							241.8 - 242.0 40-45%
							242.0 - 242.1 65-75%



MINERAL DIVISION

FANCY HILL, ARKANSAS

## DRILL HOLE RECORD

Drill Hole No.: MDDH-9 Inclination: \_\_\_\_\_

Date: \_\_\_\_\_

Property: \_\_\_\_\_

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 <sub>4</sub>	Cond.	
239.0	241.5						242.1 - 242.5 60-70%
							242.5 - 242.7 35-45%
							242.7 - 242.9 20-30%
							242.9 - 243.2 sandy shale and shale
							243.2 - 243.3 25-35%
							Very closely spaced, sealed and open, barite crystal lined fractures.
243.5	247.5	100%		4.0'			Barite nodular lenses (ama .07' wide) and nodules (ama .01' diam.) in med. and dk. gray sandy shales with dk. gray and black shale lenses (ama .05' wide). Locally ama 1-3% pyrite, disseminated/between contacts/along bedding planes.
							243.3 - 243.4 30-35%
							243.4 - 243.8 65-75%
							243.8 - 244.0 55-65%
							244.0 - 244.9 65-75%
							244.9 - 245.4 40-50%
							245.4 - 245.6 65-75%

**DRILL HOLE RECORD**

Drill Hole No.: MDDH-9 Inclination: \_\_\_\_\_

Date: \_\_\_\_\_

Property: \_\_\_\_\_

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 <sub>4</sub>	Cond.	
243.5	247.5						245.6 - 245.9 15-25%
							245.9 - 246.8 65-75%
							246.8 - 247.3 55-65%
							247.3 - 247.7 65-75%
							Very closely spaced, sealed and open, barite crystal/barite <sup>and carbon</sup> filled fractures.
247.5	253.0	100%		.	'		Barite nodules (ama .03' diam.) and nodular len- ses (ama .01' wide) in dk. gray sandy shale with black shale lenses (ama .04' wide). Locally ama 2-3% pyrite, disseminated/between contacts/ along bedding planes. Core very broken.
							247.7 - 248.1 55-65%
							248.1 - 248.3 15-25%
							248.3 - 248.8 55-65%
							248.8 - 249.3 10-20%
							249.3 - 249.6 15-25%
							249.6 - 250.0 10-20%
							250.0 - 250.7 5-15%
							Very closely spaced, barite crystal filled

## DRILL HOLE RECORD

Drill Hole No.: MDDH-9 Inclination: \_\_\_\_\_

Date: \_\_\_\_\_

Property: \_\_\_\_\_

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 <sub>4</sub>	Cond.	
247.5	253.0						fractures. Displacement in bedding along fracture and change in bedding attitude at 248.8.
				2.5'			Interbedded med., dk. gray, and black shales.
							Locally barite nodules (ama .01' diam.).
							252.4 - 252.7 10-15%
							Locally ama 3-4% pyrite, disseminated/along bedding planes. Core very broken.
							Very closely spaced, unmineralized/barite crystal filled fractures.
253.0	257.0	100%		4.0'			Interbedded dk. gray and black shales with scattered lenses ( <u>&lt;.01' wide</u> ) dk. gray sandy shale. Locally nodular lenses of barite 254.0 - 255.0 (ama 25-35%). Core very broken.
							Very closely spaced, open, unmineralized/barite crystal lined fractures. Pyrite veinlet (.01' wide) at 253.2.
257.0	263.5	100%		6.5'			Interbedded lt., med., dk. gray, and black shales with scattered lenses dk. gray and black slightly

## DRILL HOLE RECORD

Drill Hole No.: MDDH-9 Inclination: \_\_\_\_\_

Date: \_\_\_\_\_

Property: \_\_\_\_\_

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.	
257.0	263.5						sandy shale. Scattered dk. gray sandy shale nodules (ama .04' diam.). Locally ama 2-3% pyrite, between contacts/along bedding planes/lenses (<.01' wide)/rimming nodules. Closely to very closely spaced, open and sealed, carbon/carbon and barite/barite and pyrite coated fractures. Quartz and pyrite filled fracture (.03' wide) at 262.0. Slickensides at 257.0, coated by barite and pyrite. Prominent fold in bedding at 258.5.
263.5	273.5	100%		10.0'			Black shale, graphitic 267.9 - 273.5, locally slightly sandy, with lenses med. and dk. gray shale 263.5 - 267.9 and scattered lenses (<.01' wide) lt. and med. gray sandy shale. Locally ama 3-10% pyrite, disseminated/between contacts/lenses (<.01' wide)/nodules (ama .01' wide). Very closely spaced, open and sealed, carbon/carbon and barite/barite/carbon and pyrite/pyrite filled fractures. Barite and pyrite



DRILL HOLE RECORD

Drill Hole No.: MDDH-9 Inclination: \_\_\_\_\_

Date: \_\_\_\_\_

Property: \_\_\_\_\_

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 <sub>4</sub>	Cond.	
263.5	273.5						coated slickensides at 267.7.
273.5	283.0	100%		7.3'			Black shale, locally graphitic/slightly sandy, with lenses med. and dk. gray shale. Locally ama 2-4% pyrite, between contacts/along bedding/ lenses (<.01' wide)/isolated nodules (ama .04' diam.).
							Closely to very closely spaced, sealed and open, carbon filled fractures. Offset in bedding along fracture at 273.7 of .01'.
				2.1'			Lt. and med. gray sandy shales with lenses black shale. Locally ama 2-3% pyrite along bedding planes.
283.0	284.0	50%		.3'			Interbedded dk. gray and black claystones.
				.2'			Dk. gray chert. Peacock colored iron stains.
							Pyrite nodule (.02' diam.).
EXPLANATIONS: FRACTURES							

VERY CLOSELY SPACED = <1' ; CLOSELY SPACED = 1' - 3' ; MODERATELY CLOSELY SPACED = >3'



SAMPLE	LOG #	DEPTH	INTERVAL	CALCULATED SPECIFIC GRAVITY	X-RAY % BaSO <sub>4</sub>
MDDH-9					
#1		124.8-129.0	4.20	3.587	60.2
#2		129.0-133.2	4.20	3.756	69.3
#3		133.2-137.4	4.20	3.380	47.9
#4		137.4-141.6	4.20	3.414	50.0
#5		141.6-145.8	4.20	3.55	58.1
#6		145.8-150.0	4.20	3.438	51.5
#7		150.0-154.2	4.20	3.792	71.1
#8		154.2-158.4	4.20	3.476	53.8
#9		158.4-162.6	4.20	3.739	68.4
#10		162.6-166.8	4.20	3.508	55.7
#11		166.8-171.0	4.20	3.241	38.7
#12		171.0-172.9	1.90	3.686	65.6
#13		215.0-218.5	3.50	3.770	70.0
#14		218.5-222.0	3.50	3.840	73.5
#15		222.0-225.4	3.40	3.281	41.4
#16		225.4-228.9	3.50	3.513	56.0
#17		228.9-232.4	3.50	3.022	22.6
#18		232.4-235.8	3.40	3.488	54.5
#19		235.8-239.3	3.50	3.704	66.6
#20		239.3-242.8	3.50	3.606	61.3
#21		242.8-246.2	3.40	3.551	58.2
#22		246.2-248.8	2.60	3.784	70.7
#1A		* 248.8-252.7	<u>9.90</u>	3.046	24.48
COMPOSITE		CALCULATED	91.80	3.49	54.69
COMPOSITE		MEASURED		3.56	56.7