

DRILL HOLE RECORD

Drill Hole No.: MDDH-18 Inclination: 50° (N. 2° W.)

Date: 10-17-77

Property: Fancy Hill, Ark.

Drilled By: Boyles Bros. : Ralph Jex

Co-ordinates: North 629, 523.81 East 1,446, 867.30

Logged By: Lynn Burton- Ed Lawrence

Elevation: 1155.92

Total Depth: 170.0'

| DEPTH | | SAMPLE RECOVERY | SAMPLE NUMBER | ANALYSES | | | DESCRIPTION OF MATERIAL DRILLED |
|-------|-------|-----------------|---------------|----------|-------|-------|--|
| FROM | TO | | | Sp. Gr. | BaSO4 | Cond. | |
| 0.0 | 5.0 | ----- | ---- | --- | | | Colluvium (yellow to red) |
| 5.0 | 10.0 | 90% | 5-10 | 5.0' | | | Tan to buff clay and shale |
| 10.0 | 15.0 | 80% | 10-15 | 5.0' | | | Gray shale, no clastics |
| 15.0 | 20.0 | 80% | 15-20 | 5.0' | | | Gray shale grading into buff w/ minor clastics |
| 20.0 | 25.0 | 80% | 20-25 | 5.0' | | | Buff shale w/ minor amt. clastics |
| 25.0 | 30.0 | 75% | 25-30 | 5.0' | | | Buff and gray shale interbedded, no clastics |
| 30.0 | 35.0 | 75% | 30-35 | 5.0' | | | Buff shale, slight purple tint @ end |
| 35.0 | 40.0 | 75% | 35-40 | 5.0' | | | Buff to gray shale, minor clastics |
| 40.0 | 45.0 | 75% | 40-45 | 5.0' | | | Dark gray shale, trace clastics |
| 45.0 | 50.0 | 60% | 45-50 | 5.0' | | | Light gray shale (powder) |
| 50.0 | 55.0 | 60% | 50-55 | 5.0' | | | Light gray shale |
| 55.0 | 60.0 | 65% | 55-60 | 5.0' | | | Dark gray shale, minor clastics |
| 60.0 | 65.0 | 65% | 60-65 | 5.0' | | | " " " " " |
| 65.0 | 70.0 | 65% | 65-70 | 5.0' | | | Gray to black shale |
| 70.0 | 75.0 | 65% | 70-75 | 5.0' | | | " " " " |
| 75.0 | 80.0 | 65% | 75-80 | 5.0' | | | Black shale w/ white quartz clastics |
| 80.0 | 85.0 | 60% | 80-85 | 5.0' | | | Black shale w/ minor amt. white quartz |
| 85.0 | 90.0 | 60% | 85-90 | 5.0' | | | Dark black shale, trace clastics |
| 90.0 | 95.0 | 30% | 90-95 | 5.0' | | | Dark black shale, water encountered |
| 95.0 | 100.0 | 20% | 95-100 | 5.0' | | | Dense black shale, quartz and pyrite clasts |

Drill Hole No. MDDH-18

Date: 10-18-77

Bearing: N. 2° W. Inclination: 50°

Drilled By: Boyles Bros. : Ralph Jex

Coordinates: North _____ East _____

Logged By: Lynn Burton - Ed Lawrence

Elevation: _____

Total Depth: 170.0'

| DEPTH | FROM | TO | % RECOVERY | SAMPLE NUMBER | SAMPLE INTERVAL | ANALYSES | | DESCRIPTION OF MATERIAL DRILLED |
|----------|-------|-------|------------|---------------|-----------------|----------|-------------------|---|
| | | | | | | Sp. Gr. | BaSO ₄ | |
| | 100.0 | 105.0 | 60% | 100- | 05 5.0' | | | Black silicious shale, 10-20% quartz clastics |
| | 105.0 | 110.0 | 15% | 105- | 10 5.0' | | | " " " , quartz & pyrite (20%) |
| | 110.0 | 115.0 | 25% | 110- | 15 5.0' | | | Black to gray shale, 10-20% clastics |
| | 115.0 | 120.0 | 25% | 115- | 20 5.0' | | | " " " " " |
| | 120.0 | 125.0 | 15% | 120- | 25 5.0' | | | " " " " " |
| | 125.0 | 130.0 | 15% | 125- | 30 5.0' | | | Black to gray shale, white quartz (fragmented) |
| 10-19-77 | 130.0 | 135.0 | 5% | 130- | 35 5.0' | | | No sample (circulation problem) |
| | 135.0 | 140.0 | 10% | 135- | 40 5.0' | | | Poor sample, black shale |
| | 140.0 | 145.0 | 5% | 140- | 45 5.0' | | | Poor sample, black shale (fines) |
| | 145.0 | 150.0 | 5% | 145- | 50 5.0' | | | " " " " " |
| | 150.0 | 155.0 | 1% | | | | | No sample |
| 0-20-77 | 155.0 | 160.0 | 1% | | | | | No sample, lost circulation w/ caving |
| | 160.0 | 170.0 | 1% | | | | | " " " " " |
| | | | | | | | | |
| | | | | | | | | Bottom of hole : Shale (170.0) - Lost circulation |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |