

DRILL HOLE LOG

Drill Hole No. MH-71

Date: 3-26-79

Bearing: N.40°E. Inclination: 55°N.

Drilled By: Boyles Bro. Quinton Barton, Jr. Miller,

Coordinates: North 629,114.86 East 1,449,657.92

Logged By: Ferryl Gale ^{Newberry, Wright}

Elevation: 1,109.78 ft.

Total Depth: 334.0' (BX)

| DEPTH | | % | SAMPLE | SAMPLE | ANALYSES | | | DESCRIPTION OF MATERIAL DRILLED |
|-------|-------|----------|--------|-------------------|-----------------|-------------------|---------|---|
| FROM | TO | RECOVERY | NUMBER | INTERVAL | Sp. Gr. | BaSO ₄ | | |
| | | | | | Tro-Pari Survey | | | |
| | | | | | Dip | | Bearing | |
| | | | | Surface | 55°N. | | N.40°E. | |
| | | | | 134.0 | 52°N. | | N.40°E. | |
| | | | | 234.0 | 50°N. | | N.40°E. | |
| | | | | 334.0 | 51°N. | | N.40°E. | |
| | | | | Total Depth 334.0 | | | | |
| 0.0 | 20.0 | | | | | | | Set casing, buff to tan highly weather sandstone (colluvein 3.0') |
| 20.0 | 30.0 | | | | | | | Light gray fine grained sandstone, heavy limonite staining in fractures. |
| 30.0 | 40.0 | | | | | | | Sandstone with wisps of black shales. |
| 40.0 | 50.0 | | | | | | | Gray sandstone, with numerous quartz and calcite thrends and stringers, highly leached vuggy locally. |
| 50.0 | 60.0 | | | | | | | Black shales with lamina of gray sandstone. |
| 60.0 | 70.0 | | | | | | | Gray sandstone with wisps of black shale. |
| 70.0 | 80.0 | | | | | | | Sandstone grading from black to light gray. |
| 80.0 | 90.0 | | | | | | | Gray fine grained sandstone, well cemented, high R.Q.D. |
| 90.0 | 100.0 | | | | | | | Sandstone as above. |
| 100.0 | 112.0 | | | | | | | Sandstone with black shale lamina bedding dip at 110.0' is 86°S. |

Drill Hole No. MH-77

Date: _____

Bearing: _____ Inclination: _____

Drilled By: _____

Coordinates: North _____ East _____

Logged By: _____

Elevation: _____

Total Depth: _____

| DEPTH | | % | SAMPLE | SAMPLE | ANALYSES | | | DESCRIPTION OF MATERIAL DRILLED |
|-------|-------|----------|--------|----------|----------|-------------------|--------|--|
| FROM | TO | RECOVERY | NUMBER | INTERVAL | Sp. Gr. | BaSO ₄ | | |
| 112.0 | 124.0 | | | | | | | Sandstone with high R.Q.D. |
| 124.0 | 136.0 | | | | | | | Interbedded black shales and gray sandstone. |
| 136.0 | 148.0 | | | | | | | As above. |
| 148.0 | 160.0 | | | | | | | Sandstone with wisps of black shales. |
| 160.0 | 170.0 | | | | | | | Gray, fine-grained sandstone, locally darker gray; |
| | | | | | | | | occasional black shale lamina. |
| 170.0 | 180.0 | | | | | | | Bedding dip at 165.0' is 75° S. Gray sandstone, well |
| | | | | | | | | cemented, darker gray locally. |
| 180.0 | 190.0 | | | | | | | As above. |
| 190.0 | 200.0 | | | | | | | Gray sandstone, with occasional black shale lamina. |
| 200.0 | 212.0 | | | | | | | Sandstone well cemented. |
| 212.0 | 224.0 | | | | | | | Black shale, with marcasite blebs. |
| 224.0 | 236.0 | | | | | | | Interbedded black and gray shales. |
| 236.0 | 246.3 | | | | | | | Black shales. |
| 246.3 | 251.0 | | 7422 | | | 3.207 | 36.353 | Barite zone, medium grade barite, nodular with scattered |
| | | | | | | | | thin lamina of barite in black shale. |
| 251.0 | 257.0 | | 7423 | | | 3.581 | 59.879 | Barite zone, medium to high grade barite, laminate |
| | | | | | | | | to massive barite, locally numerous nodules. |
| 257.0 | 259.7 | | 7424 | | | 3.095 | 28.201 | Barite zone, low grade scattered nodules in black shale. |
| 259.7 | 276.0 | | | | | | | Interbedded gray and black shales and gray sandstone. |

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Bearing: _____ Inclination: _____

Drilled By: _____

Coordinates: North _____ East _____

Logged By: _____

Elevation: _____

Total Depth: _____

| DEPTH | | % RECOVERY | SAMPLE NUMBER | SAMPLE INTERVAL | ANALYSES | | | DESCRIPTION OF MATERIAL DRILLED |
|-------|-------|---------------|------------------|--------------------|----------|-------------------|--|--|
| FROM | TO | | | | Sp. Gr. | BaSO ₄ | | |
| 276.0 | 283.0 | | 7425 | | 3.751 | 68.77 | | Barite zone, massive to heavy laminated barite in black shale. |
| 283.0 | 289.0 | | 7426 | | 3.781 | 70.549 | | Barite zone, high grade massive barite. |
| 289.0 | 296.0 | | 7427 | | 3.814 | 72.203 | | Barite zone, high grade massive barite. |
| 296.0 | 301.5 | | 7428 | | 3.554 | 58.346 | | Barite zone, medium to high grade, laminate barite with black shale. |
| 301.5 | 302.0 | | | | | | | Black shale, no visible barite. |
| 302.0 | 308.4 | | 7429 | | 4.046 | 83.063 | | Barite zone, high grade massive barite. |
| 308.4 | 309.2 | | 7430 | | 3.314 | 43.626 | | Barite zone, medium grade numerous nodules in black shale. |
| 309.2 | 313.5 | | | | | | | Black shale no visible barite. |
| 313.5 | 314.3 | | 7431 | | 3.121 | 30.146 | | Barite zone, low grade scattered nodules of barite |
| 314.3 | 315.0 | | | | | | | Black shale, no visible barite. |
| 315.0 | 315.7 | | 7432 | | 3.194 | 35.436 | | Barite zone, low grade scattered barite nodules in black shales. |
| 315.7 | 319.0 | | | | | | | Black shales. |
| 319.0 | 319.6 | | 7433 | | 2.93 | 15.057 | | Barite zone, scattered barite nodules in black shales. |
| 319.6 | 332.0 | | | | | | | Black shale, rich in carbon grading to light gray shales |
| 332.0 | 333.5 | | | | | | | Gray gouge |
| 333.5 | 334.0 | | | | | | | Arkansas Novaculite |

Hole bottomed on novaculite - Total depth 334.0'

FANCY HILL DIAMOND DRILL HOLES
INDIVIDUAL CORE ANALYSIS BY INTERVALS

| SAMPLE | LOG # | DEPTH | INTERVAL | SPECIFIC GRAVITY | % BaSO ₄ |
|--------|----------|------------------|----------|---------------------|---------------------|
| MH-77 | | | | | |
| 7422 | | 246.3-251 | 4.7 | 3.207 | 36.353 |
| 7423 | | 251-257 | 6.0 | 3.581 | 59.879 |
| 7424 | | 257-259.7 | 2.7 | 3.095 | 28.201 |
| 7425 | | 276.0-283 | 7.0 | 3.751 | 68.770 |
| 7426 | | 283-289 | 6.0 | 3.781 | 70.549 |
| 7427 | | 289-296 | 7.0 | 3.814 | 72.203 |
| 7428 | | 296-301.5 | 5.5 | 3.554 | 58.346 |
| 7429 | | 302-308.4 | 6.4 | 4.046 | 83.063 |
| 7430 | | 308.4-309.2 | 0.8 | 3.314 | 43.626 |
| 7431 | | 313.5-314.3 | 0.8 | 3.121 | 30.146 |
| 7432 | | 315.0-315.7 | 0.7 | 3.194 | 35.436 |
| 7433 | | 319-319.6 | 0.6 | 2.930 | 15.057 |
| | | Total | 48.2 | | |
| | | Weighted Average | | 3.633 | 62.79 |

Barite Intervals for MH-77

| <u>Sample</u> | <u>Footage</u> | <u>%BaSO₄</u> | <u>Specific Gravity</u> |
|---------------|----------------|--------------------------|-------------------------|
| 7422 | 246.3-251.0 | | |
| 7423 | 251.0-257.0 | | |
| 7424 | 257.0-259.7 | | |
| 7425 | 276.0-283.0 | | |
| 7426 | 283.0-289.0 | | |
| 7427 | 289.0-296.0 | | |
| 7428 | 296.0-301.5 | | |
| 7429 | 301.5-308.4 | | |
| 7430 | 308.4-309.2 | | |
| 7431 | 313.5-314.3 | | |
| 7432 | 315.0-315.7 | | |
| 7433 | 319.0-319.6 | | |