



M.O.K.A.T. DRILLING
Office Phone: (620) 879-5377



Air Drilling
Specialist
Oil and Gas Wells

P.O. Box 590
Caney, KS 67333

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|-------------------------------|-------------|---------|---------|---------|------|----|----------|--------|-----------|----|-------|------|---------|--|--------------|----------|----------------|----------|------|--|----|--|--------|
| Operator | MERITAGE KCM EXPLORATION LLC. | Well No. | 6-41 | Lease | BROYLES | Loc. | KS | County | LYNN | Type/Well | KS | Depth | 935' | Hours | | Date Started | 11/18/02 | Date Completed | 11/19/02 | | | | | |
| Job No. | | Casing Used | 22' 3" | Bit No. | | Type | | Bit size | 7 7/8" | From | | To | | Bit No. | | type | | Size | | From | | To | | % Rec. |
| Driller | BILLY | Cement Used | 4 SACKS | | | | | | | | | | | | | | | | | | | | | |
| Driller | | Rig No. | #1 | | | | | | | | | | | | | | | | | | | | | |
| Driller | | Hammer No. | | | | | | | | | | | | | | | | | | | | | | |

Formation Record

| From | To | Formation | From | To | Formation | From | To | Formation | From | To | Formation |
|------|-----|-------------|------|-----|-------------|------|-----|-----------------|------|-----|-----------|
| 0 | 2 | OVERBURDEN | 378 | 382 | SHALE | 596 | 597 | BLK SHALE | 789 | 796 | BLK SHALE |
| 2 | 46 | LIME | 382 | 392 | LIME | 597 | 598 | COAL | 789 | | |
| 46 | 49 | BLK SHALE | 392 | 405 | SANDY SHALE | 598 | 609 | SANDY SHALE | 796 | 797 | LIME |
| 49 | 54 | LIME | 405 | 410 | LIME | 609 | 612 | BLK SHALE LIMEY | 797 | 804 | BLK SHALE |
| 54 | 59 | SHALE | 410 | 412 | BLK SHALE | 612 | 614 | COAL | 804 | 806 | COAL |
| 59 | 75 | LIME | 412 | | | 614 | | | 806 | 812 | SHALE |
| 75 | 77 | BLK SHALE | 412 | 417 | LIME | 614 | 624 | SHALE | 812 | 813 | LIME |
| 77 | 78 | COAL | 417 | 436 | SANDY SHALE | 624 | 627 | BLK SHALE | 813 | 823 | BLK SHALE |
| 78 | 84 | LIME | 436 | | | 627 | 635 | SHALE | 814 | | |
| 84 | 88 | SHALE | 436 | 437 | COAL | 635 | 636 | COAL | 823 | 825 | LIME |
| 88 | 97 | LIME | 437 | 450 | SHALE | 636 | 646 | BLK SHALE | 825 | 832 | BLK SHALE |
| 97 | 101 | SHALE | 450 | 457 | LIME | 638 | | | 832 | 834 | COAL |
| 101 | 103 | LIME | 457 | 460 | SHALE | 646 | 650 | SHALE | 834 | 844 | BLK SHALE |
| 103 | 105 | SHALE | 462 | | | 650 | 654 | BLK SHALE | 838 | | |
| 105 | 108 | LIME | 462 | 472 | LIME | 654 | 655 | COAL | 844 | 852 | LIME MISS |
| 108 | 180 | SHALE | 472 | 474 | SHALE | 655 | 683 | SANDY SHALE | 852 | 855 | COAL |
| 180 | 231 | SANDY SHALE | 474 | 476 | LIME | 664 | | | 855 | 935 | LIME |
| 231 | 234 | BLK SHALE | 476 | 480 | BLK SHALE | 683 | 684 | COAL | 864 | | |
| 234 | 237 | SHALE | 480 | 481 | COAL | 684 | 694 | BLK SHALE | 864 | | |
| 237 | 250 | SAND | 481 | 493 | LIME | 689 | | | 914 | | |
| 250 | 258 | SANDY SHALE | 493 | 495 | BLK SHALE | 694 | 711 | SHALE | | | |
| 258 | 269 | SHALE | 495 | 496 | COAL | 711 | 713 | COAL | | | |
| 269 | 273 | BLK SHALE | 496 | 527 | SHALE | 713 | 746 | SHALE | | | |
| 273 | 283 | SHALE | 527 | 535 | LIMEY SHALE | 714 | | | | | |
| 283 | 307 | LIME | 535 | 560 | SHALE | 746 | 747 | COAL? | | | |
| 307 | 312 | SHALE | 560 | 569 | BLK SHALE | 747 | 767 | SHALE | | | |
| 312 | 322 | SAND | 569 | 571 | COAL | 767 | 768 | COAL | | | |
| 322 | 333 | SANDY SHALE | 571 | 589 | SHALE | 768 | 782 | SHALE | | | |
| 333 | 362 | SAND (DAMP) | 589 | | | 782 | 784 | COAL | | | |
| 362 | 376 | SHALE | 589 | 595 | LIME | 784 | 788 | BLK SHALE | | | |
| 376 | 378 | COAL | 595 | 596 | COAL? | 788 | 789 | COAL | | | |