

McPherson Drilling LLC Drillers Log

PO# **AFE# D11068**

| | | | |
|--------------------------------|-----------------------|--------------|---------------|
| Rig Number: 1 | S. 16 | T. 29 | R.19 E |
| API No. -105- 133-27568 | County: Neosho | | |
| Elev. 965 | Location: | | |

| Gas Tests: | |
|-------------------|-------|
| 104' | 0 |
| 359' | 1.68 |
| 427' | 1.68 |
| 479' | 2.37 |
| 505' | 2.37 |
| 520' | 2.37 |
| 540' | 2.37 |
| 605' | 3.71 |
| 630' | 4.76 |
| 680' | 4.76 |
| 705' | 4.76 |
| 730' | 4.12 |
| 755 | 4.12 |
| 880' | 25 |
| 939' | 63.5 |
| 955' | 63.5 |
| 1081' | 73.10 |
| Comments: | |
| Start injecting @ | |

| | | | |
|---|---------------------------|---------------------|------------|
| Operator: POSTROCK | | | |
| Address: 210 Park Ave Ste 2750 Oklahoma City, OK 73102-5641 | | | |
| Well No: 16-2 | Lease Name: FOWLER | | |
| Footage Location: | 1,900 | ft. from the | NORTH Line |
| | 680 | ft. from the | WEST Line |
| Drilling Contractor: McPherson Drilling LLC | | | |
| Spud date: | 6/30/2011 | Geologist: | Ken Recoy |
| Date Completed: | 7/1/2011 | Total Depth: | 1081 |

| Casing Record | | | Rig Time: | |
|-----------------------|---------|------------|------------------|------------|
| | Surface | Production | | |
| Size Hole: | 11" | 7 7/8" | | |
| Size Casing: | 8 5/8" | | | |
| Weight: | 20# | | | |
| Setting Depth: | 22 | MCP | 500' | h2o |
| Type Cement: | Port | | DRILLER: | Andy Coats |
| Sacks: | 4 | MCP | | |

| Well Log | | | | | | | | | | |
|------------------|------------|-------------|-------------|------------------|------------|-------------|--|------------------|------------|-------------|
| Formation | Top | Btm. | HRS. | Formation | Top | Btm. | | Formation | Top | Btm. |
| soil | 0 | 5 | | lime | 405 | 409 | | black shale | 750 | 752 |
| lime | 5 | 8 | | coal | 409 | 411 | | shale | 752 | 872 |
| shale | 8 | 13 | | shale | 411 | 416 | | coal | 872 | 874 |
| lime | 13 | 70 | | lime | 416 | 448 | | shale | 874 | 877 |
| black shale | 70 | 72 | | shale | 448 | 462 | | coal | 877 | 878 |
| lime | 72 | 81 | | sand | 462 | 475 | | shale | 878 | 930 |
| sand shale | 81 | 90 | | shale | 475 | 485 | | coal | 930 | 933 |
| coal | 90 | 92 | | coal | 485 | 486 | | shale | 933 | 940 |
| shale | 92 | 112 | | oswego lime | 486 | 514 | | miss | 940 | 1081 |
| lime | 112 | 128 | | summit | 514 | 518 | | | | |
| shale | 128 | 178 | | lime | 518 | 533 | | | | |
| lime | 178 | 191 | | mulky | 533 | 537 | | | | |
| shale | 191 | 227 | | lime | 537 | 540 | | | | |
| sand shale | 227 | 235 | | shale | 540 | 597 | | | | |
| shale | 235 | 270 | | coal | 597 | 599 | | | | |
| lime | 270 | 274 | | shale | 599 | 621 | | | | |
| shale | 274 | 299 | | coal | 621 | 622 | | | | |
| lime | 299 | 307 | | shale | 622 | 665 | | | | |
| shale | 307 | 313 | | coal | 665 | 667 | | | | |
| lime | 313 | 317 | | shale | 667 | 683 | | | | |
| shale | 317 | 355 | | coal | 683 | 684 | | | | |
| coal | 355 | 356 | | shale | 684 | 718 | | | | |
| sand shale | 356 | 368 | | coal | 718 | 720 | | | | |
| shale | 368 | 405 | | shale | 720 | 750 | | | | |