

McPherson Drilling LLC Drillers Log

PO# **AFE# D11071**

| | | | |
|--------------------------------|-----------------------|--------------|---------------|
| Rig Number: 1 | S. 15 | T. 28 | R.18 E |
| API No. -105- 133-27570 | County: Neosho | | |
| Elev. 945 | Location: | | |

| Gas Tests: | |
|---------------------------------------|------|
| 179' | 0 |
| 229' | 0 |
| 329' | 0 |
| 505' | 2.37 |
| 555' | 2.37 |
| 590' | 2.92 |
| 610' | 2.92 |
| 630' | 2.37 |
| 730' | 3.37 |
| 765' | 3.37 |
| 830' | 2.37 |
| 855' | 3.37 |
| 980' | 57.7 |
| 1031' | 57.7 |
| 1056' | 57.7 |
| 1170' | 44.7 |
| Comments: Start injecting @ | |

| |
|---|
| Operator: POSTROCK |
| Address: 210 Park Ave Ste 2750 Oklahoma City, OK 73102-5641 |
| Well No: 15-2 Lease Name: TENNIS |
| Footage Location: 925 ft. from the NORTH Line |
| 330 ft. from the WEST Line |
| Drilling Contractor: McPherson Drilling LLC |
| Spud date: 7/12/2011 Geologist: Ken Recoy |
| Date Completed: 7/13/2011 Total Depth: 1170 |

| Casing Record | | | Rig Time: | |
|-----------------------|----------------|-------------------|------------------|------------|
| | Surface | Production | | |
| Size Hole: | 11" | 7 7/8" | | |
| Size Casing: | 8 5/8" | | | |
| Weight: | 20# | | | |
| Setting Depth: | 20 | MCP | 980' | 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 | 498 | 535 | | coal | 1029 | 1030 |
| sand | 5 | 9 | | coal | 535 | 537 | | shale | 1030 | 1031 |
| shale | 9 | 64 | | shale | 537 | 576 | | miss | 1031 | 1170 |
| lime | 64 | 153 | | coal | 576 | 577 | | | | |
| coal | 153 | 155 | | oswego | 577 | 600 | | | | |
| sand shale | 155 | 199 | | summit | 600 | 609 | | | | |
| lime | 199 | 220 | | lime | 609 | 617 | | | | |
| coal | 220 | 222 | | mulky | 617 | 621 | | | | |
| shale | 222 | 228 | | lime | 621 | 623 | | | | |
| lime | 228 | 241 | | shale | 623 | 721 | | | | |
| shale | 241 | 250 | | coal | 721 | 723 | | | | |
| lime | 250 | 309 | | shale | 723 | 760 | | | | |
| shale | 309 | 314 | | coal | 760 | 761 | | | | |
| coal | 314 | 315 | | shale | 761 | 776 | | | | |
| sand shale | 315 | 335 | | black shale | 776 | 778 | | | | |
| shale | 335 | 368 | | shale | 778 | 810 | | | | |
| black shale | 368 | 370 | | coal | 810 | 812 | | | | |
| shale | 370 | 375 | | shale | 812 | 851 | | | | |
| lime | 375 | 378 | | coal | 851 | 852 | | | | |
| sand shale | 378 | 400 | | shale | 852 | 961 | | | | |
| lime | 400 | 409 | | coal | 961 | 962 | | | | |
| shale | 409 | 483 | | shale | 962 | 1015 | | | | |
| lime | 483 | 497 | | coal | 1015 | 1017 | | | | |
| coal | 497 | 498 | | shale | 1017 | 1029 | | | | |