

McPherson Drilling LLC Drillers Log

PO# LRG010511-6 AFE# D10088

| | | | |
|------------------------------|------------------------|--------------|---------------|
| Rig Number: 1 | S. 2 | T. 35 | R.17 E |
| API No. 15- 099-24635 | County: LB | | |
| Elev. 807 | Location: NW SW | | |

| Gas Tests: | |
|-------------------|------|
| | MCF |
| 195 | 0 |
| 229 | 0 |
| 379 | 1.83 |
| 404 | 7.06 |
| 429 | 7.06 |
| 455 | 7.06 |
| 520 | 7.06 |
| 605 | 34.0 |
| 685 | 34.0 |
| 780 | 8.95 |
| 830 | 34.0 |
| 885 | 37.6 |
| 915 | 37.6 |
| 1032 | 37.6 |
| Comments: | |
| Start injecting @ | |

| | | | |
|---|-----------------------------|--|--|
| Operator: POSTROCK | | | |
| Address: 210 Park Ave Ste 2750 Oklahoma City, OK 73102-5641 | | | |
| Well No: 2-1 | Lease Name: HAHN | | |
| Footage Location: 1980 ft. from the SOUTH Line | | | |
| 660 ft. from the WEST Line | | | |
| Drilling Contractor: McPherson Drilling LLC | | | |
| Spud date: 1/6/2011 | Geologist: Ken Recoy | | |
| Date Completed: 1/7/2011 | Total Depth: 1032 | | |

| Casing Record | | | Rig Time: | |
|-----------------------|----------|------------|------------------------------|--|
| | Surface | Production | | |
| Size Hole: | 11" | 7 7/8" | odor 230 hit water at 440 | |
| Size Casing: | 8 5/8" | | | |
| Weight: | 23# | | DRILLER: Andy Coats | |
| Setting Depth: | 22 | MCP | | |
| Type Cement: | Portland | | | |
| Sacks: | 4 | MCP | | |

| Well Log | | | | | | | | | | |
|------------------|------------|-------------|-------------|------------------|------------|-------------|--|------------------|------------|-------------|
| Formation | Top | Btm. | HRS. | Formation | Top | Btm. | | Formation | Top | Btm. |
| soil | 0 | 3 | | black shale | 474 | 476 | | coal | 873 | 875 |
| shale | 3 | 14 | | sand shale | 476 | 511 | | shale | 875 | 886 |
| lime | 14 | 19 | | shale | 511 | 518 | | Miss lime | 886 | 1032 |
| shale | 19 | 31 | | black shale | 518 | 519 | | | | |
| lime | 31 | 49 | | shale | 519 | 591 | | | | |
| coal | 49 | 50 | | coal | 591 | 592 | | | | |
| lime | 50 | 62 | | shale | 592 | 624 | | | | |
| shale | 62 | 180 | | sand | 624 | 645 | | | | |
| black shale | 180 | 181 | | coal | 645 | 648 | | | | |
| lime | 181 | 211 | | sand shale | 648 | 668 | | | | |
| coal | 211 | 213 | | black shale | 668 | 670 | | | | |
| shale | 213 | 220 | | shale | 670 | 682 | | | | |
| oil sand | 220 | 230 | | sand | 682 | 687 | | | | |
| sand shale | 230 | 321 | | sand shale | 687 | 720 | | | | |
| oswego lime | 321 | 352 | | black shale | 720 | 722 | | | | |
| summit | 352 | 357 | | shale | 722 | 731 | | | | |
| lime | 357 | 387 | | sand shale | 731 | 735 | | | | |
| mulkey | 387 | 393 | | shale | 735 | 748 | | | | |
| lime | 393 | 399 | | black shale | 748 | 750 | | | | |
| shale | 399 | 409 | | shale | 750 | 757 | | | | |
| coal | 409 | 411 | | black shale | 757 | 760 | | | | |
| shale | 411 | 447 | | shale | 760 | 825 | | | | |
| black shale | 447 | 448 | | coal | 825 | 828 | | | | |
| sand shale | 448 | 474 | | shale | 828 | 873 | | | | |