

Air Drilling Specialist
Oil & Gas Wells

THORNTON AIR ROTARY, LLC
Office Phone: 620-879-2073

PO Box 449
Caney, KS 67333

| | |
|----------------|-------------------|
| Date Started | 12/17/2010 |
| Date Completed | 12/20/2010 |

| Well No. | Operator | Lease | A.P.I # | County | State |
|---------------|-------------------------------|----------------|------------------------|---------------|---------------|
| 15G-34 | Layne Energy Operating | Metzger | 205-27895-00-00 | Wilson | Kansas |

| 1/4 | 1/4 | 1/4 | Sec. | Twp. | Rge. |
|-----|-----|-----|-----------|-----------|-----------|
| | | | 34 | 30 | 14 |

| Driller | Type/Well | Cement Used | Casing Used | Depth | Size of Hole |
|--------------|------------|-------------|------------------|-------------|--------------|
| Billy | Oil | 8 | 43' 8 5/8 | 1263 | 6 3/4 |

Formation Record

| | | | | | |
|---------|-----------------------|-----------|----------------------------|--|--|
| 0-4 | DIRT | 909-952 | SANDY SHALE | | |
| 4-100 | LIME | 953-976 | LIME (OSWEGO) | | |
| 100-172 | SHALE | 976-984 | BLK SHALE (SUMMIT) | | |
| 172-298 | LMY SHALE | 984-996 | LIME | | |
| 298-300 | SANDY SHALE | 996-998 | BLK SHALE (EXCELLO) | | |
| 300-434 | SAND (DAMP) | 998-999 | COAL (MULKEY) | | |
| 434-494 | LIME | 999-1000 | SHALE | | |
| 494-520 | SAND | 1000-1004 | LIME | | |
| 512 | WENT TO WATER | 1004-1049 | SANDY SHALE | | |
| 520-533 | LIME | 1049-1050 | COAL | | |
| 537 | GAS TEST - NO GAS | 1050-1062 | SHALE | | |
| 533-538 | SHALE | 1062-1063 | LIME | | |
| 538-552 | LIME | 1063-1066 | SHALE | | |
| 552-572 | SAND | 1066-1067 | COAL (CROWBERG) | | |
| 572-640 | LIME | 1067-1107 | SANDY | | |
| 640-695 | SHALE | 1088 | GAS TEST - NO GAS | | |
| 695-716 | LIME | 1107-1108 | COAL (MINERAL) | | |
| 716-717 | COAL | 1108-1123 | SHALE | | |
| 717-737 | SANDY SHALE | 1123-1125 | BLK SHALE / COAL | | |
| 737-747 | LIME | 1125-1148 | SHALE | | |
| 747-757 | SHALE | 1148-1156 | SANDY SHALE | | |
| 757-768 | SAND /LITE OIL ODOR | 1156-1177 | SAND / OIL ODOR | | |
| 768-773 | SANDY SHALE | 1177-1181 | SHALE | | |
| 773-797 | SHALE | 1181-1182 | COAL | | |
| 797-798 | COAL | 1182-1195 | SHALE | | |
| 798-868 | SHALE | 1188 | GAS TEST-10#,1/4",MCF-30.8 | | |
| 868-898 | LIME (PAWNEE) | 1195-1210 | SANDY SHALE | | |
| 898-901 | SHALE | 1210-1263 | SHALE | | |
| 901-903 | LIME | 1263 | TD | | |
| 903-909 | BLK SHALE (LEXINGTON) | | | | |