

Air Drilling Specialist  
Oil & Gas Wells

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

PO Box 449  
Caney, KS 67333

Date Started	<b>4/12/2011</b>
Date Completed	<b>4/13/2011</b>

Well No.	Operator	Lease	A.P.I.#	County	State
<b>7C-34</b>	<b>Layne Energy Operating</b>	<b>Metzger</b>	<b>15-205-27855-00-00</b>	<b>Wilson</b>	<b>Kansas</b>

	1/4	1/4	1/4	Sec.	Twp.	Rge.
				<b>34</b>	<b>30</b>	<b>14</b>

Driller	Type/Well	Cement Used	Casing Used	Depth	Size of Hole
<b>Billy</b>	<b>Oil</b>	<b>8</b>	<b>42.6' 8 5/8</b>	<b>1237</b>	<b>6 3/4</b>

### Formation Record

0-6	DIRT	892-901	BLK SHALE (LEXINGTON)		
6-89	LIME	901-941	SANDY SHALE		
89-285	LIME SHALE	941-964	LIME (OSWEGO)		
285-291	LIME	964-974	BLK SHALE (SUMMIT)		
291-295	SANDY SHALE	974-984	LIME		
295-380	SAND (DAMP)	984-989	BLACK SHALE		
380-404	SHALE	989-990	COAL (MULKEY)		
404-407	LIME	990-991	SHALE		
407-410	BLACK SHALE	991-994	LIME		
410-426	SHALE	994-1032	SHALE		
411	GAS TEST - NO GAS	1032-1035	COAL		
426-522	LIME	1035-1051	SHALE		
522-526	BLACK SHALE	1051-1053	LIME (V-LIME)		
526-596	LIME	1053-1055	SHALE		
561	WENT TO WATER	1055-1056	COAL (CROWBERG)		
596-601	SHALE	1056-1093	SHALE		
601-634	LIME	1093-1094	COAL (MINERAL)		
634-645	BLACK SHALE	1094-1131	SHALE		
645-690	SHALE	1112	GAS TEST-10# 1/4", MCF-30.8		
690-705	LIME	1131-1133	BLACK SHALE		
705-728	SHALE	1133-1149	BROWN SAND		
728-740	LIME	1136-1149	OIL ODOR		
740-750	SHALE	1149-1154	SANDY SHALE		
750-765	SAND	1154-1160	GRAY SAND		
765-854	SHALE	1160-1237	SHALE		
854-855	LIME	1162	GAS TEST-20# 1/4", MCF-47.1		
855-856	COAL (MULBERRY)	1237	TD		
856-886	LIME (PAWNEE)				
886-888	BLACK SHALE				
888-892	LIME				