

Air Drilling Specialist  
Oil & Gas Wells

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

PO Box 449  
Caney, KS 67333

Date Started	<b>12/3/2010</b>
Date Completed	<b>12/8/2010</b>

Well No.	Operator	Lease	A.P.I #	County	State
<b>16B-28</b>	<b>Layne Energy Operating</b>	<b>Hummer</b>	<b>205-27888-00-00</b>	<b>Wilson</b>	<b>Kansas</b>

1/4	1/4	1/4	Sec.	Twp.	Rge.
			<b>28</b>	<b>30</b>	<b>14E</b>

Driller	Type/Well	Cement Used	Casing Used	Depth	Size of Hole
<b>Billy/Sean</b>	<b>Oil</b>	<b>8</b>	<b>40' 8 5/8</b>	<b>1237</b>	<b>6 3/4</b>

**Formation Record**

0-8	DIRT	831-859	SANDY SHALE	1155-1165	SHALE
8-15	CLAY (WET)	859-861	LIME	1165-1170	SAND
15-35	SHALE	861-862	COAL	1170-1237	SHALE
35-62	LIME	862-900	LIME (PAWNEE)	1237	TD
62-72	SHALE	900-905	BLK SHALE (LEXINGTON)		
72-115	LIME	905-942	SHALE		
115-335	SHALE	942-964	LIME (OSWEGO)		
335-340	SANDY SHALE	964-975	BLK SHALE (SUMMIT)		
340-407	SAND (DAMP)	975-984	LIME		
407-410	LIME	984-986	SHALE		
410-446	SHALE	986-987	COAL (MULKEY)		
446-532	LIME	987-995	LIME		
532-538	SHALE	987	GAS TEST - NO GAS		
538-546	LIME	995-1032	SHALE		
546-566	LMY SHALE	1032-1033	COAL (BEVIER)		
566-574	SAND	1033-1048	SHALE		
574-577	LIME	1048-1049	LIME		
577-588	SANDY SHALE	1049-1052	SHALE		
588-607	LIME	1052-1053	COAL (CROWBERG)		
607-614	LMY SHALE	1053-1057	SHALE		
614-621	LIME	1057-1062	SAND		
611	GAS TEST - NO GAS	1062-1087	SHALE		
621-738	SHALE	1087-1088	COAL		
738-756	LIME	1088-1117	SHALE		
756-771	SHALE	1117-1126	SANDY SHALE		
771-787	SANDY SHALE	1126-1132	SHALE		
787-801	SHALE	1132-1147	SAND		
801-808	SAND	1147-1149	SANDY SHALE		
808-820	SHALE	1149-1150	COAL		
820-831	SAND / LITE OIL ODOR	1150-1155	SAND		