

Air Drilling Specialist  
Oil & Gas Wells

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

PO Box 449  
Caney, KS 67333

Date Started	<b>7/2/2013</b>
Date Completed	<b>7/2/2013</b>

Operator	A.P.I #	County	State
<b>Post Rock Energy</b>	<b>15-133-27683-00-00</b>	<b>Neosho</b>	<b>Kansas</b>

Well No.	Lease	Sec.	Twp.	Rge.
<b>14-8</b>	<b>Grosdidier, Francis E</b>	<b>14</b>	<b>28</b>	<b>20</b>

Type	Driller	Cement Used	Casing Used	Depth	Size of Hole
<b>Oil</b>	<b>Brantley Thornton</b>	<b>4</b>	<b>22' 8 5/8</b>	<b>632</b>	<b>7 7/8</b>

**Formation Record**

0-10	MUD	482-483	COAL		
10-45	SHALE	483-497	SHALE		
45-70	SANDY LIME	497-503	SAND		
45	LOTS OF WATER	503-512	SANDY SHALE		
70-80	SHALE	512-540	SHALE		
80-85	LIME	540-541	LIME		
85-96	LMY SHALE	541-600	SHALE		
96-126	SHALE	600-620	SANDY SHALE		
126-150	LIME	620-632	SHALE		
150-166	SHALE	632	TD		
166-169	LIME				
169-176	SHALE				
176-207	LIME (PAWNEE)				
207-215	BLK SHALE				
215-260	SHALE				
260-282	LIME (OSWEGO)				
282-291	BLK SHALE (SUMMIT)				
291-299	LIME				
299-303	BLK SHALE (MULKY)				
303-305	LIME				
305-312	SAND				
312-348	SANDY SHALE				
348-393	SHALE				
393-395	LIME				
395-397	BLK SHALE				
397-398	COAL (CROWBERG)				
398-451	SHALE				
451-462	SANDY SHALE				
462-471	SAND / LT ODOR				
471-482	SHALE				