

Air Drilling Specialist  
Oil & Gas Wells

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

PO Box 449  
Caney, KS 67333

Date Started	<b>6/3/2013</b>
Date Completed	<b>6/19/2013</b>

Operator	A.P.I #	County	State
<b>Post Rock Energy</b>	<b>15-133-27667-00-00</b>	<b>Neosho</b>	<b>Kansas</b>

Well No.	Lease	Sec.	Twp.	Rge.
<b>15-13</b>	<b>Grosdidier, Francis E</b>	<b>15</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>2</b>	<b>20' 8 5/8</b>	<b>1040</b>	<b>7 7/8</b>

**Formation Record**

0-3	MUD	750-765	CHERT		
3-10	CLAY	765-810	BROWN LIME		
10-20	SHALE	810-845	LMY CHERT		
20-82	SAND	845-973	CHERT / CHAT		
82-110	LIME / DAMP	973-1000	BLK SHALE		
110-150	SAND	1000-1010	LMY SHALE		
150-180	SHALE	1010	PICKED UP WATER		
180-220	LIME	1010-1020	SANDY LIME		
220-227	SHALE	1020-1036	GRAY LIME		
227-230	LIME	1036-1040	LIME /SOFTER		
230-275	SANDY SHALE	1036	PICKED UP LOTS OF WATER		
275-294	LIME (OSWEGO)	1040	WATERED OUT		
294-301	BLK SHALE (SUMMIT)	1040	TD		
301-306	LIME				
306-312	BLK SHALE (MULKY)				
312-313	LIME				
313-330	SAND /LT SHOW, WET				
330	WENT TO WATER				
330-420	SANDY SHALE				
420-422	LIME				
422-502	SHALE				
502-503	COAL				
503-520	SAND				
520-644	SHALE				
644-645	COAL				
645-715	SANDY SHALE				
715-716	COAL				
716-736	BLK SHALE				
736-740	CHERT LIME (MISS.)				
740-750	GRAY LIME				