

Air Drilling Specialist  
Oil & Gas Wells

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

PO Box 449  
Caney, KS 67333

Date Started	<b>10/1/2012</b>
Date Completed	<b>10/2/2012</b>

Operator	A.P.I #	County	State
<b>Post Rock</b>	<b>15-133-27597-00-00</b>	<b>Neosho</b>	<b>Kansas</b>

Well No.	Lease	Sec.	Twp.	Rge.
<b>15-3</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>4</b>	<b>22' 8 5/8</b>	<b>610</b>	<b>7 7/8</b>

**Formation Record**

0-8	DIRT	401-421	SANDY SHALE		
8-10	LIME	421-422	LIME		
10-12	LMY SHALE	422-425	COAL (CROWBERG)		
12-15	BLK SHALE	425-428	SHALE		
15-22	BLK SHALE	428-430	COAL		
22-25	SHALE	430-444	SANDY SHALE		
25-28	LIME	444-456	SAND		
28-75	SANDY SHALE	456-457	COAL		
75-120	LIME	457-469	SANDY SHALE		
120-143	SHALE	469-470	COAL		
143-158	SAND / DAMP	470-476	SANDY SHALE		
158-162	SHALE	476-477	LIME		
162-170	SAND	477-494	SAND/ (CATTLEMAN) GOOD ODOR & SHOW		
170-174	SANDY SHALE	494-509	SANDY SHALE /NO ODOR		
174-188	SHALE	509-511	COAL		
188-190	LIME	511-524	SANDY SHALE		
190-202	SANDY LIME	524-543	SAND/ NO ODOR		
202-205	BLK SHALE / COAL	543-544	COAL		
205-275	SANDY SHALE	544-553	SHALE		
275-276	COAL	553-555	COAL		
276-279	SANDY SHALE	555-567	BLACK SHALE		
279-300	LIME (OSWEGO)	567-569	LIME		
300-306	BLACK SHALE (SUMMIT)	569-582	SANDY SHALE		
306-311	LIME	582-584	COAL		
311-314	BLK SHALE (MULKY)	584-599	SANDY SHALE		
314-325	SANDY SHALE	599-600	COAL		
325-395	SHALE	600-610	SANDY SHALE		
395-396	LIME	610	GAS TEST - NO GAS		
396-399	BLACK SHALE	610	TD		
399-401	COAL (BEVIER)				