

Air Drilling Specialist  
Oil & Gas Wells

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

PO Box 449  
Caney, KS 67333

Date Started	<b>11/21/2012</b>
Date Completed	<b>11/27/2012</b>

Operator	A.P.I #	County	State
<b>Colt Energy</b>	<b>15-011-24187-00-00</b>	<b>Bourbon</b>	<b>Kansas</b>

Well No.	Lease	Sec.	Twp.	Rge.
<b>1-12</b>	<b>Houston D &amp; A</b>	<b>12</b>	<b>24</b>	<b>25</b>

Type	Driller	Cement Used	Casing Used	Depth	Size of Hole
<b>Oil</b>	<b>Brantley Thornton</b>	<b>4</b>	<b>21' 6" 8 5/8</b>	<b>425</b>	<b>6 3/4</b>

**Formation Record**

0-2	MUD	262-270	SHALE		
2-6	COAL	270-300	SANDY SHALE / WET		
6-12	SHALE	285	WENT TO WATER		
12-15	LIME / DAMP	300-310	SANDY SHALE		
15-21	SHALE	310-319	BLACK SHALE		
15	WENT TO WATER	319-321	COAL		
21-73	SHALE	321-342	BLACK SAND		
73-74	COAL	342-343	COAL		
74-83	SHALE	343-377	SHALE		
83-95	SANDY SHALE	377-382	SAND		
95-96	LIME	382-425	CHAT /CHERT (MISS.)		
96-107	BLACK SHALE	425	TD		
107-108	COAL				
108-120	SANDY SHALE				
120-122	COAL				
122-130	SHALE				
130-131	COAL				
131-145	SHALE				
145-146	COAL				
146-160	SHALE				
160-161	COAL				
161-190	SANDY SHALE				
190-220	SHALE				
220-221	COAL				
221-228	SAND / LITE ODOR				
228-237	SANDY SHALE				
237-251	SHALE				
251-252	COAL				
252-261	SANDY SHALE				
261-262	COAL				