

Air Drilling Specialist
Oil & Gas Wells

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

PO Box 449
Caney, KS 67333

Date Started	7/18/2013
Date Completed	7/19/2013

Operator	A.P.I #	County	State
Post Rock Energy	15-133-27695-00-00	Neosho	Kansas

Well No.	Lease	Sec.	Twp.	Rge.
20-3	Kramer, Jerry L	20	29	19

Type	Driller	Cement Used	Casing Used	Depth	Size of Hole
Oil	Brantley Thornton	4	20' 8 5/8	832	7 7/8

Formation Record

0-8	MUD	641-675	SANDY SHALE		
8-15	SANDY LIME	675-676	COAL		
15-20	LIME	676-700	SANDY SHALE / DAMP		
20-66	LIME	700-727	SAND		
66-195	SHALE	727-740	SAND / ODOR & SHOW		
195-220	LIME	740-741	COAL		
220-315	SHALE	741-780	SANDY SHALE		
315-350	LIME	780-832	SHALE		
350-421	SHALE	832	TD		
421-422	COAL				
422-431	SAND				
431-456	LIME (PAWNEE)				
456-460	BLK SHALE				
460-470	SHALE				
470-475	LIME				
475-490	SHALE				
490-491	COAL				
491-503	SANDY SHALE				
503-524	LIME (OSWEGO)				
524-531	BLK SHALE (SUMMIT)				
531-538	LIME				
538-544	BLK SHALE (MULKY)				
544-546	LIME				
546-560	SAND				
560-617	SANDY SHALE				
617-618	COAL				
618-632	SANDY SHALE				
632-633	COAL				
633-640	SHALE				
640-641	COAL				