

Air Drilling Specialist
Oil & Gas Wells

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

PO Box 449
Caney, KS 67333

Date Started	10/18/2011
Date Completed	10/19/2011

Well No.	Operator	Lease	A.P.I #	County	State
1H-3 WIW	Layne Energy Operating	Zook	15-125-32143-00-00	Montgomery	Kansas

1/4	1/4	1/4	Sec.	Twp.	Rge.
			3	31	14 E

Driller	Type/Well	Cement Used	Casing Used	Depth	Size of Hole
Brantley	Oil	4	21.8' 8 5/8	1287	6 3/4

Formation Record

0-6	DIRT	886-889	SHALE		
6-80	LIME	889-917	LIME (PAWNEE)		
80-180	SHALE	917-920	BLACK SHALE		
180-290	LMY SHALE	920-923	LIME		
290-426	SAND (DAMP)	923-928	BLK SHALE (LEXINGTON)		
336	WENT TO WATER	928-972	SHALE		
426-433	LIME	972-993	LIME (OSWEGO)		
433-441	SHALE	993-1000	BLACK SHALE		
441-460	LIME	1000-1018	LIME		
460-466	SHALE	1018-1020	SHALE (EXCELLO)		
466-476	LMY SHALE	1020-1025	LIME		
476-521	LIME	1025-1031	SANDY SHALE		
521-531	SAND	1031-1067	SHALE		
531-541	LIME	1067-1068	COAL		
541-564	LMY SHALE	1068-1083	SHALE		
564-593	SAND	1083-1085	LIME		
593-617	LIME	1085-1086	COAL (CROWBERG)		
617-623	SHALE	1086-1097	SHALE		
623-655	LIME	1097-1102	SAND		
655-684	SHALE	1102-1131	SHALE		
684-687	LIME	1131-1132	COAL (MINERAL)		
687-714	BLACK SHALE	1132-1180	SHALE		
714-741	LIME	1180-1185	SANDY SHALE		
741-759	SHALE	1185-1187	SAND /LITE ODOR		
759-769	LIME	1187-1205	BLK SAND / GOOD ODOR		
769-776	SHALE	1205-1208	COAL		
776-797	SAND (WIESER)	1208-1287	SHALE		
797-885	SHALE	1287	TD		
811	GAS TEST-SLIGHT BLOW				
885-886	COAL (MULBERRY)				