

Air Drilling Specialist
Oil & Gas Wells

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

PO Box 449
Caney, KS 67333

Date Started	3/2/2012
Date Completed	3/5/2012

Well No.	Operator	Lease	A.P.I #	County	State
41-30	Layne Energy Operating	Meitner	15-125-32161-00-00	Montgomery	Kansas

1/4	1/4	1/4	Sec.	Twp.	Rge.
			30	32	14

Driller	Type/Well	Cement Used	Casing Used	Depth	Size of Hole
Brantley	Gas/Oil	4	21.5' 8 5/8	1312	6 3/4

Formation Record

0-6	DIRT	909-932	SAND / GOOD ODOR	1281-1312	SHALE
6-15	CLAY	932-949	SAND/ LIGHT ODOR	1312	TD
15-138	SHALE	949-951	SAND/GOOD ODOR		
138-148	LIME	951-958	SANDY SHALE		
148-153	SHALE	958-973	SAND		
153-161	LIME	973-987	SANDY SHALE		
161-240	SHALE	987-997	SHALE		
240-249	SAND / DAMP	997-1023	LIME (PAWNEE)		
249-436	SHALE	1023-1028	BLACK SHALE		
460	WENT TO WATER	1028-1037	SAND		
436-450	SAND	1037-1082	SHALE		
450-452	COAL	1082-1111	LIME (OSWEGO)		
452-473	SAND	1111-1121	BLK SHALE (SUMMIT)		
473-475	COAL	1121-1140	LIME		
475-521	SANDY SHALE	1137	GAS TEST - SLIGHT BLOW		
511	GAS TEST - NO GAS	1140-1144	BLK SHALE (MULKY)		
521-526	LIME	1144-1157	LIME		
526-541	SANDY SHALE	1157-1169	SHALE		
541-596	LIME	1169-1171	COAL		
596-727	SHALE	1171-1183	SHALE		
727-733	LIME	1183-1184	LIME		
733-793	SHALE	1184-1186	SHALE		
793-808	LIME	1186-1187	COAL (CROWBERG)		
808-849	SANDY SHALE	1187-1192	SAND		
849-877	LIME	1212	GAS TEST- SLIGHT BLOW		
877-882	SANDY SHALE	1192-1234	SHALE		
882-891	SAND / LIGHT ODOR	1234-1235	COAL (MINERAL)		
891-899	SANDY SHALE	1235-1270	SANDY SHALE		
899-907	SAND / LIGHT ODOR	1270-1271	COAL		
907-909	COAL/ OIL SHOW	1271-1281	SAND		