

Air Drilling Specialist
Oil & Gas Wells

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

PO Box 449
Caney, KS 67333

Date Started	1/3/2012
Date Completed	1/6/2012

Well No.	Operator	Lease	A.P.I #	County	State
8-11	Layne Energy Operating	Scovel	15-125-32148-00-00	Montgomery	Kansas

1/4	1/4	1/4	Sec.	Twp.	Rge.
			11	32 S	13 E

Driller	Type/Well	Cement Used	Casing Used	Depth	Size of Hole
Chris		Consolidated	65' 8 5/8	1548	6 3/4

Formation Record

0-6	DIRT	818-833	LIME (LENAPAH)	1357-1369	RED SHALE
6-12	CLAY	833-841	SHALE	1369-1416	SHALE
12-26	WET SANDY CLAY	841-847	LIME	1416-1448	SAND
26-50	LIME	847-856	SHALE	1420	G.T.-19#, 1 1/2" = 1824 MCF
50-98		856-911	SAND	1420-1440	FIRST CORE
98-120	SHALE	911-959	SANDY SHALE	1440-1456	SECOND CORE
120-168	LIME	959-961	COAL	1448-1459	SHALE
168-183	LMY SHALE	961-990	LIME (PAWNEE)	1459-1509	MISS. CHAT
183-307	SHALE	980	ODOR	1509-1548	BROWN LIME
307-312	LIME	990-1049	BLACK SHALE	1548	TD
312-431	SHALE	1049-1075	LIME (OSWEGO)		
431-465	SAND	1075-1082	BLK SHALE (SUMMIT)		
465-485	SANDY SHALE	1082-1099	LIME (OSWEGO)		
485-506	SHALE	1099-1106	BLK SHALE (MULKY)		
510	WENT TO WATER	1106-1110	LIME		
506-520	LIME	1110-1128	SHALE		
520-535	SHALE	1128-1129	COAL (BEVEIR)		
535-583	LIME	1129-1147	SHALE		
583-610	SANDY SHALE	1147-1149	LIME (V-LIME)		
610-635	SAND	1149-1151	SHALE		
611	G.T.-70#, 1/2" = 510 MCF	1151-1152	COAL (CROWBERG)		
635-651	SANDY SHALE	1152-1194	SHALE		
651-660	SHALE	1194-1195	COAL		
660-706	LIME	1195-1234	SHALE		
710	G.T. - SAME	1234-1252	SAND		
706-770	SHALE	1252-1280	SANDY SHALE		
770-776	LIME	1280-1303	SHALE		
776-785	SHALE	1303-1321	SAND		
785-810	SANDY SHALE	1321-1343	SHALE		
810-818	SHALE	1343-1357	SANDY SHALE		