

Air Drilling Specialist
Oil & Gas Wells

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

PO Box 449
Caney, KS 67333

Date Started	9/21/2010
Date Completed	9/22/2010

Well No.	Operator	Lease	A.P.I #	County	State
9C-28	Layne Energy Operating	Hummer	15-205-27862-00-00	Wilson	Kansas

1/4	1/4	1/4	Sec.	Twp.	Rge.
			28	30	14E

Driller	Type/Well	Cement Used	Casing Used	Depth	Size of Hole
Sean	Oil	8	42 8 5/8	1211	6 3/4

Formation Record

0-2	DIRT	702-718	LIME	1036	GAS TEST - SAME
2-15	CLAY	718-741	SANDY SHALE	1040-1042	LIME
15-35	SHALE	741-752	LIME	1042-1045	SHALE
35-109	LIME	752-765	SAND	1045-1046	COAL
109-172	SHALE	765-787	SHALE	1046-1058	SAND
172-175	LIME	787-793	SAND	1058-1063	SANDY SHALE
175-190	SHALE	793-796	SHALE	1063-1081	SHALE
190-205	LMY SHALE	796-804	SAND	1081-1082	COAL
205-212	SHALE	804-815	SHALE	1082-1090	SANDY SHALE
212-228	LIME	815-848	SANDY SHALE	1086	GAS TEST - SAME
228-308	SHALE	848-855	SHALE	1090-1106	SHALE
308-313	LIME	855-858	LIME	1106-1110	SAND /GOOD ODOR
313-322	SANDY SHALE	858-859	COAL (MULBERRY)	1110-1115	SANDY SHALE
322-381	SAND	859-889	LIME (PAWNEE)	1115-1117	LIME
385	WENT TO WATER	861	GAS TEST-SLIGHT BLOW	1117-1133	SAND/1122-1133 GOOD ODOR
381-382	COAL	889-891	SHALE	1133-1160	SANDY SHALE
382-400	SHALE	891-896	LIME	1160-1211	SHALE
400-403	LIME	896-901	BLK SHALE (LEXINGTON)	1211	TD
403-436	SHALE	901-938	SANDY SHALE		
410	GAS TEST - NO GAS	911	GAS TEST - SAME		
436-540	LIME	938-959	LIME (OSWEGO)		
540-546	BLACK SHALE	959-966	BLK SHALE (SUMMIT)		
546-567	LIME	966-975	LIME		
567-580	SAND	975-980	BLK SHALE (EXCELLO)		
580-606	LIME	980-983	LIME		
606-611	SHALE	983-990	SANDY SHALE		
611-650	LIME	986	GAS TEST - SAME		
650-683	SHALE	990-1025	SHALE		
683-686	LIME	1025-1026	COAL		
686-702	SANDY SHALE	1026-1040	SHALE		