

Air Drilling Specialist
Oil & Gas Wells

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

PO Box 449
Caney, KS 67333

Date Started	1/14/2014
Date Completed	1/20/2014

Operator	A.P.I.#	County	State
Coft Energy	15-001-30835-00-00	Allen	Kansas

Well No.	Lease	Sec.	Twp.	Rge.
W11-i	Knox	23	25	19

Type	Driller	Cement Used	Casing Used	Depth	Size of Hole
Oil	Billy Thornton	4	22'4" 8 5/8	961	6 3/4

Formation Record

0-8	DIRT	549-551	SHALE	786-806	CORE POINT (1)
8-16	CLAY	551-573	LIME (PAWNEE)	795-800	SANDY SHALE
16-46	LIME	561	WENT TO WATER	800-824	SHALE
46-67	SHALE	573-576	SHALE	824-825	COAL
67-68	COAL	576-582	LIME	825-830	SHALE
68-75	SAND	582-589	BLACK SHALE	830-843	SANDY SHALE /ODOR
75-86	LIME	589-590	COAL	843-845	SANDY SHALE
86-100	SHALE	590-596	SHALE	845-872	SAND / OIL SHOW
100-146	SAND / DAMP	596-599	SANDY SHALE	849-869	CORE POINT (2)
146-150	LIME	599-606	SHALE	872-873	COAL
150-170	SDY LIME	606-618	SAND	873-914	SHALE
170-184	SAND	618-631	LIME (OSWEGO)	914-922	SANDY SHALE
184-204	LIME	631-635	LMY SHALE	922-940	SHALE
204-211	BLACK SHALE /DAMP	635-637	LIME	940-948	SAND
211-220	LIME	637-644	BLK SHALE (SUMMIT)	948-951	SANDY SHALE
220-231	SANDY SHALE	644-651	LIME	951-952	COAL
231-233	BLACK SHALE	651-654	BLK SHALE (EXCELLO)	952-961	SHALE
233-266	LIME	654-655	COAL (MULKY)	961	TD
266-3056	SANDY SHALE	655-696	SANDY SHALE		
305-340	SAND	696-724	SAND		
340-399	SHALE	724-735	SHALE		
399-403	LIME	735-737	LIME		
403-448	SANDY SHALE	737-740	BLACK SHALE		
448-463	SHALE	740-741	COAL		
463-471	LIME	741-770	SHALE		
471-514	SHALE	770-771	COAL		
514-525	SAND	771-778	SHALE		
525-546	SHALE	778-782	SAND		
546-548	LIME	782-785	SAND / OIL ODOR		
548-549	COAL (MULBERRY)	785-795	SAND / OIL SHOW		