





1059687

Operator Name: Crawford Oil LLC Lease Name: Holtz Well #: 15  
 Sec. 16 Twp. 18 S. R. 24  East  West County: Miami

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Cores Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum open hole
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CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (in O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	9	6.2500	10	20	Portland	3	50/50 POZ
Completion	5.6250	2.8750	8	527	Portland	73	5/50 POZ

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing				
___ Plug Back TD	-			
___ Plug Off Zone	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. _____		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls. Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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County, KS  
 Well: Holtz #15  
 Lease Owner: Keith Crawford

Town Oil Company, Inc.  
 (913) 294-2125

Commenced Spudding:  
 6/22/2011

WELL LOG

Thickness of Strata	Formation	Total Depth
12	soil clay	12
10	lime	22 Drawn
12	shale	34
33	lime	67 Winterset
6	shale/slate	73
21	lime	94 Bethany Falls
4	shale/slate	98
2	lime	100 K.C.
4	shale/slate	104
6	lime	110 hertha
23	shale	133
10	sandy shale	143 Slight odor, broken
123	shale	266 grey, sandy
9	sandy shale	275 Green with fossil, no show
5	lime	280 with fossils
41	shale	321 with lime
5	lime	326
6	shale and slate	332
4	lime	336
4	shale	340
2	coal	342
3	shale	345 Grey
9	lime	354
15	shale	369
3	lime	372
16	shale	388
21	lime	409
32	shale	441 with lime streaks
5	lime	446
35	shale	481
10	sand	491 Solid good bleed
1	sand	492 Laminated, but good bleed
48	shale	540 T. D.

Core

Time Elapsed	Feet	Depth	Time	
		1	482	40
		2	483	1:59
		3	484	3:15
		4	485	4:40
		5	486	5:24
		6	487	6:06
		7	488	6:48
		8	489	7:37
		9	490	9:00
		10	491	10:37
		11	492	12:30
		12	493	14:28
		13	494	16:48
		14	495	18:28
		15	496	
		16	497	
		17	498	
		18	499	
		19	500	
		20	501	

