CONFIDENTIAL KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1 June 2009 Form Must Be Typed Form must be Signed All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

Original Comp. Date:Original Total Depth:Chloride content: N/Appm Fluid volume: N/Abbls DeepeningRe-perfConv. to ENHRConv. to SWD	Name: Layne Energy Operating, LLC	
Address 1: 1900 Shawnee Mission Parkway Address 2:		
Address 2: City Mission Woods	Address 1: 1000 Grawnee Mission Larkway	SW SW SE SE Sec. 34 Twn 30 S R 14 Fast West
Cantlact Person. Victor H. Oyal Phone: { 13		·
Footages Calculated from Nearost Outside Section Comer: Phone: (913		
Phone: (913) 748-3960 CONTRACTOR: License #, 335066 Name: Thornton Air Rotary, LLC Wellsite Geologist:		
Contractors: License # 33606 Name: Thornton Air Rotary, LLC Welsise Geologist:		
Name: Thornton Air Rotary, LLC		
Wellsian Geologist:	Thomas Air Datana 11 C	
Purchaser: Designate Type of Completion:	,	· · · · · · · · · · · · · · · · · · ·
Designate Type of Completion: New Well	-	
New Well		
Amount of Surface Pipe Set and Cemented at: 40 Feet Gas	- '	
Gas	New Weil Re-Entry Workover	
Gold	Oil wsw swd slow	Amount of Surface Pipe Set and Cemented at: 40 Feet
CM (Coel Bod Methane) If Alternate II completion, cement circulated from: 1279 feet depth to: Surface w/ 135 sx cml.		
Cathodic Other (Core, Expl., etc.): feet depth to: Surface w/ 135 sx cml.	✓ OG GSW Temp. Abd.	•
Cathodic Other (Core, Expl., etc.): feet depth to: Surface w/ 135 sx cml.	<u> </u>	If Alternate II completion, cement circulated from: 1279
Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)	-	feet depth to: Surface w/ 135 sx cmt.
Well Name:	If Workover/Re-entry: Old Well Info as follows:	·
Well Name:Original Comp. Date:Original Total Depth:	Operator:	Drilling Fluid Management Plan
Deepening Re-perf. Conv. to ENHR Conv. to SWD Conv. to GSW Plug Back:	Well Name:	
Dewatering method used: N/A - Air Drilled Conv. to GSW	Original Comp. Date: Original Total Depth:	Chloride content: N/A ppm Fluid volume: N/A bbls
Com. to GSW	☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD	· ·
Commingled Permit #:		
Dual Completion	 	Location of fluid disposal if hauled offsite:
SWD Permit #:		Operator Name: N/A
ENHR Permit #:	_	Lease Name: N/A License #: N/A
GSW Permit #: GSW Permit #: County: N/A Permit #: N/A		Quarter N/A Sec. N/A Twp. N/A S. R. N/A East West
5/24/2010 Spud Date or Recompletion Date INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells. AFFIDAVIT I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge. Completion Date Comp		
Spud Date or Recompletion Date INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells. AFFIDAVIT I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge. Completion Date Recompletion Date Recomplete in Wichita, Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 S. Market - Room 2078, Wichita, Kansas 67202, within 120 Ase 3-106 and 82-3-107 apply. Information of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of a well. Rule 82-3-130, 82-3-106 and 8		,
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and the statements herein are complete and correct to the best of my knowledge.		egu-
NITY 11 7 2010	lations promulgated to regulate the oil and gas industry have been fully complied	
/ A JAMES AND A STATE OF THE ST	and the statements herein are complete and correct to the best of my knowledge	S. NIIV II 2 2040
Wireline Log Received	1/:teMM -	Wireline Log Received
Signature: Geologist Report Received KCC WICHITA	Signature: 4/10/10/14/14/14	Geologist Report Received KCC WICHITA
Title: Manager of Engineering Date: 11/2/2010 UIC Distribution	Title: Manager of Engineering Date: 11/2/2010	UIC Distribution ALT I III Approved by: Date:

Side Two

CONFIDENTIAL

Operator Name: <u>La</u>	ne Energy Opera	ting, LL	ن	Lease	e Name: _	weizger		Well #: <u>15</u>	N-34	
Sec. 34 Twp. 30	s. R. <u>14</u>	✓ East	West	Coun	ty: Wilso	on				
INSTRUCTIONS: Shitime tool open and clarecovery, and flow rat line Logs surveyed. A	osed, flowing and shu es if gas to surface te	t-in pressu st, along v	ires, whether s vith final chart(hut-in pre	ssure rea	ched static level,	hydrostatic pro	essures, bottom	hole temp	erature, fluid
Drill Stem Tests Taker		Y€	s 📝 No		⊘ L	og Formatio	n (Top), Depth	and Datum		Sample
Samples Sent to Geo	logical Survey	∏Ye	s 🗸 No		Nam	e riller's Log		Тор	[Datum
Cores Taken Electric Log Run Electric Log Submitte (II no, Submit Cop)	•		s 🔲 No		366 D	riller's Log				
List All E. Logs Run: Compensated [Dual Induction	Density Neutron									
•		Repo		RECORD		ew Used ermediate, producti	on. etc			
Purpose of String	Size Hole Drilled	Siz	e Casing (In O.D.)	W	eight ., / Ft.	Setting Depth	Type of Cement	# Sacks Used		and Percent
Surface	11"	8.625*	,	24	·	40'	Class A	16		Cement
Producton	6.75**	4.5*		10.5		1279'	Thick Set	135		
			ADDITIONAL	. CEMENT	ING / SQL	JEEZE RECORD				
Purpose: — Perforate — Protect Casing — Plug Back TD — Plug Off Zone	Depth Top Bottom	Туре	of Cement	# Sad	ks Used		Type an	d Percent Additive	S	
Shots Per Foot			D - Bridge Plug ach Interval Per		· · · · · · · · · · · · · · · · · · ·		cture, Shot, Cem	ent Squeeze Reco Material Used)	rd	Depth
	See Attached Pag	e						i		
								REC	EIVED	· · · · · · · · · · · · · · · · · · ·
<u> </u>			<u></u>							
			· · · · - · ·						3. 201	
TUBING RECORD:	Size: 2-3/8"	Set At: 1237'		Packer	At:	Liner Run:	Yes 🗸	⊸ KCC W	CHIT	Α
Date of First, Resumed 6/25/2010	Production, SWD or EN	ŀR.	Producing Meth	nod: Pumpi	ing	Gas Lift 0	ther (Explain)			
Estimated Production Per 24 Hours	Oi 8 <1	Bbis.	Gas <1	Mcf	Wate	er Bi	.ek	Gas-Oil Ratio		Gravity
DISPOSITION Sold	ON OF GAS:			METHOD O		Comp. Con	nmingled	PRODUCTI	ON INTER	/AL.:
(If vented, Sui	bmit ACO-18.)		ther (Specify)		(Submit A	(Subr	nit ACO-4)			

Layne Energy Operating, LLC #33365



METZGER 16N-34 SW SW SE SE 34 - 30S - 14E WILSON COUNTY, KANSAS 15-205-27821-00-00

Stage #

Perforation Record

Acid, Fracture, Shot, Cement Squeeze Record

Stage 1 6/23/2010

Cattleman Sand 1171' - 1187'

13000 Sand (12/20) Brown

280 Water (bbls)

300 HCI (15%) (gal)

3000 Sand (20/40) (lbs)

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RECEIVED NOV 0 3 2010 KCC WICHITA

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Daily Well Work Report

METZGER 16N-34 5/24/2010

Well Location:

WILSON KS

30S-14E-34 SW SW SE SE

271FSL / 1315FEL

Cost Center

Lease Number

Property Code API Number

G01027400400

G010274

KSSY30S14E3416N

15-205-27821

	Spud Date	RI	OMO Date	First Compl	First Prod	EFM Install	CygnetID
-	5/24/2010	5	/27/2010	6/24/2010	6/25/2010		· • • • • • • • • • • • • • • • • • • •
-	TD P	BTD	Sf Csg Dept	h Pr Csg Dep	th Tbg Size	Csg Size	
٠	1287 1	279	40	1279	0	0	

Reported By JM

Rig Number

Date

5/24/2010

Taken By

KRD

Present Operation SET SURFACE

Down Time

Contractor

THORNTON ROTARY D

Narrative

MIRU THORNTON DRILLED 11"HOLE 40 DEEP, RIH W/2 JOINTS 8-5/8" SURFACE CASING MIXED 16 SX TYPE 1 CEMENT, DUMPED DOWN THE BACKSIDE. SDFN

> RECEIVED NOV 0 3 2010 KCC WICHITA

CONFIDENTIAL

Air Orilling Specialist
Oil & Gas Wells

THORNTON AIR ROTARY, LLC

Office Phone: 620-879-2073

PO Box 449 Caney, KS 67333

Date Started	5/24/2010
Date Completed	5/26/2010

Well No.	Operator	Lease	A.P.I #	County	State
16N-34	Layne Energy Operating	Morder	16-205-2181	Wilson	Kansas
4/4	1/4	1/4	Sec.	Twp.	Rge.
1/4				5 0 4	14
Driller	Type/Well	A	Casing Used	Depth	Size of Hole
	Tuno/Mail	Cement Used	Casing Osea		

Formation Record

		T 544.740	SHALE	1081-1082	COAL
0-2	DIRT	744-749		(========	SHALE
2-8	CLAY	749-769	LIME	1082-1090	GAS TEST - SAME
8-75	LIME	769-788	SAND-OIL ODOR @776		
75-79	LMY SHALE	788-796	SANDY SHALE		SAND
79-176	SHALE	796-821	SHALE		SHALE
176-212	LIME	821-880	SANDY SHALE	1122-1124	COAL
212-293	SHALE	880-881	COAL (MULBERRY)	1124-1172	SHALE
293-295	LIME	881-907	LIME (PAWNEE)	1137	GAS TEST - SAME
295-300	SHALE	887	GAS TEST-SLIGHT BLOW	1172-1191	CORE
300-308	SANDY SHALE	907-909	SHALE	1187	GAS TEST-4#,1/4,MCF-18.5
308-399	SAND (WET)	909-912	LIME	1191-1192	COAL
361	WENT TO WATER	912	GAS TEST-1N, 1/4,MCF-8.93	1192-1222	SHALE
399-421	SANDY SHALE	912-919	BLACK SHALE	1222-1250	SANDY SHALE
421-424	LIME	919-930	SHALE	1250-1287	SHALE
424-429	SHALE	930-938	SAND	1287	TO'
429-431	LIME	937	GAS TEST - SAME		
431-440	SHALE	938-950	SHALE		
440-459	LIME	950-956	SANDY SHALE		
459-476	SHALE	966-990	LIME (OSWEGO)		
476-534	LIME	990-999	BLK SHALE (SUMMIT)		
534-540	BLACK SHALE	999-1010	LIME		
540-550	SHALE	1010-1013	BLACK SHALE		
550-560	LIME	1012	GAS TEST-3#,1/4,MCF-15.)		DECYMAN
560-587	SAND	1013-1018	LIME		RECEIVED
587-610	LIME	1018-1023	SAND		NOV 0 3 2010
610-616	SHALE	1023-1057	SHALE		1104 0 3 2010
616-650	LIME	1057-1059	COAL		- KCC MICH-
650-705	SHALE	1059-1077	SHALE		KCC WICH TA
705-730	LIME	1077-1079	LIME		
730-744	LMY SHALE	1079-1081	SHALE]

ricket number	28780
LOCATION	ureka
FOREMAN T	Tow Striction

	hanute, KS 667 or 800-467-8876		LD TICKE	T & TREA CEMEN	ITMENT REP IT	ORT		
DATE	CUSTOMER#	WELL	NAME & NUM	BER	SECTION	TOWNSHIP	RANGE	COUNTY
5-27-10	4758	Metzs	ec 16N	L-34				Wilson
CUSTOMER								· : : ;
MAILING ADDR	<u>yne Energ</u>	٣	,	4	TRUCK	DRIVER	TRUCK#	DRIVER
_				1	520	Rick	<u> </u>	
<u> </u>	30x 160	(·	_	479	プラム		
CITY		STATE .	ZIP CODE]				·
Sycamo	<u>~</u> _	Y 1		}				
JOB TYPE	15 0	HOLE SIZE	644	_ HOLE DEPTI	H_1287'	Casing Size & V	VEIGHT YX	" 10.5*
CASING DEPTH		DRILL PIPE		TUBING		 _	OTHER	
SLURRY WEIGH	IT_13.2 H	SLURRY VOL	4281	WATER galls	sk 8º	CEMENT LEFT In	CASING Q'	
DISPLACEMEN'	20.164	DISPLACEMENT	P\$I <u></u> ≤00	MIX PSI 7	200 Bup Py	RATE_		
REMARKS: S	afah ma	ety: Rig s	40 to 4%			mulaten u	2/ 258U'W	uter.
wad Do				um lark			SORN W	
Shut Da	n Right	so to Cen			aulation and		7	Abc Boda
Pre-Flush	. 50h h	atec 10A	_					cent w/
84/Kot	See 1 1/4"	Phenosal		FL-110 +				ech put
Aum +	ince Rela				20.3061 2	valer. Fil	nal Rymon	n fratius
TIR COZ.			10 851.			ose flow		
	ement +		9061		to pit	*		11.
						Comply	· · · · · · · · · · · · · · · · · · ·	
ACCOUNT CODE	QUANITY	or UNITS	DE	SCRIPTION of	SERVICES or PRO	DUCT	UNIT PRICE	TOTAL
5401	1		PUMP CHARG	E			900.00	900.00
300	40		MILEAGE				3.05	142.00
1171 4	126		77	1 0			21 -	

ACCOUNT CODE	QUANITY of UNITS	DESCRIPTION of SERVICES of PRODUCT	UNIT PRICE	TOTAL
5401		PUMP CHARGE	900.00	900.00
2100	40	MILEAGE	3.57	142.00
1126A	13534	Thickset Coment	16.50	2227.50
IIIQA	10804	84 Kal-Soul Polse	.40	432.00
1107A	ון #	1/1 Phenason	1.12	19.04
1135	68*	1/2 OF - 110	7.26	493.68
1146	34#	142 CAF - 38	7.50	255.00
		RECEIVED		
1118A	500*	Gel- Flux NOV 0 3 2010	٠١٦	85.00
1105	<u> </u>	Hull	.38	19.00
1103	100 F	Constic Souls KCC WICHITA	1.40	190.00
גרטיר	<u> </u>	Ton-mileye 44" Top Rubber Ry	1.20	356.64
4404	1	44. Top Rubber Ry	44.00	44.00
		The Ey	robtile	5113.80
			SALES TAX	19693
Rayn 3737	·	634461	ESTIMATED TOTAL	5310,19

AUTHORIZTION LASTNETTES I acknowledge that the payment terms, unless specifically emended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

Jack