

Kansas Corporation Commission Oil & Gas Conservation Division

GRIGINA

Form ACO-1

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

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

OPERATOR: License # 33365	API No. 15 - 205-27821-00-00
Name: Layne Energy Operating, LLC	Spot Description:
Address 1: 1900 Shawnee Mission Parkway	SWEE SE SE SE Sec. 34 Twp. 30 S. R. 14 VEast West
Address 2:	256 271 Feet from ☐ North / ☑ South Line of Section
City: Mission Woods State: KS Zip: 66205 + 2001	2,769 1315 Feet from V East / West Line of Section
Contact Person: Victor H. Dyal	Per OPET VEE By Footages Calculated from Nearest Outside Section Corner:
Phone: (913) 748-3960	□ne □nw ⊈se □sw
211 11	County: Wilson
Thornton Air Rotany LLC	Lease Name: Metzger Well #: 16N-34
Wellsite Geologist:	Field Name: Cherokee Basin Coal Area
Purchaser:	Producing Formation: Cattleman Sands
Designate Type of Completion:	Elevation: Ground: 914' Kelly Bushing: N/A
✓, New Well Re-Entry Workover	Total Depth: 1287' Plug Back Total Depth: 1279'
	Amount of Surface Pipe Set and Cemented at: 40 Feet
[] Oil	Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
✓ OG GSW Temp. Abd.	If yes, show depth set: N/A Feet
CM (Coal Bed Methane)	If Alternate II completion, cement circulated from: 1279
Cathodic Other (Core, Expl., etc.);	feet depth to: Surface w/ 116 sx cmt.
If Workover/Re-entry: Old Well Info as follows:	sx cmt,
Operator:	
Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:	· ·
☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD	Chloride content: N/A ppm Fluid volume: N/A bbls
Conv. to GSW	Dewatering method used: N/A – Air Drilled
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name: N/A
Dual Completion Permit #:	Lease Name: N/A License #: N/A
SWD Permit#:	Quarter N/A Sec. N/A Twp. N/A S. R. N/A East West
ENHR Permit #:	County: N/A Permit #: N/A
GSW Permit #:	71111111
5/24/2010 5/27/2010 6/24/2010 Spud Date or Date Reached TD Completion Date or	
Recompletion Date Recompletion Date	
Kansas 67202, within 120 days of the spud date, recompletion, workover or of side two of this form will be held confidential for a period of 12 months if re	th the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information equested in writing and submitted with the form (see rule 82-3-107 for confidenwell report shall be attached with this form. ALL CEMENTING TICKETS MUST form with all temporarily abandoned wells.
AFFIDAVIT	KCC Office Use ONLY
I am the affiant and I hereby certify that all requirements of the statutes, rules and	Villatter of Confidentiality Department (
lations promulgated to regulate the oil and gas industry have been fully complied	
and the statements herein are complete and correct to the best of my knowled	
and the statements herein are complete and correct to the best of my knowled	Confidential Release Date:
Mitall D.	Confidential Release Date: Wireline Log Received
Signature: Date: 9/8/2010	Confidential Release Date:

Side Two

perator Name: <u>La</u>)	yne Energy Opera	ating, LLC	Lease Nam	e: Metzger		Well #:16	JN-34
	S. R. 14		County: W			<u>.</u>	
ime tool open and clo ecovery, and flow rate	losed, flowing and shut	nd base of formations pe ut-in pressures, whether est, along with final char al well site report.	er shut-in pressure i	reached static leve	el, hydrostatic pres	essures, bottom	hole temperature, fluid
Orill Stem Tests Taker (Attach Additional		Yes No	1	-	tion (Top), Depth a		Sample
Samples Sent to Geo	•	Yes No		Name ee Driller's Log		Тор	Datum
Cores Taken Electric Log Run Electric Log Submitte (If no, Submit Copy	ed Electronically	Yes No Y Yes W No Y Yes W No Y Yes No		3 Dimer v 229		:	KOC)
List All E. Logs Run:						•	SEP 3 C 2017
Compensated [Dual Induction	Density Neutron					Ct	CNHDED AL
				New Used			
Purpose of String	Size Hole Drifled	Report all strings se Size Casing Set (In O.D.)	et-conductor, surface Weight Lbs. / Ft.	e, intermediate, produc Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	11"	8.625*	24	40'	Class A	116	Type 1 Cement
Producton	6.75*	4.5*	10.5	1279'	Thick Set	135	
			<u> </u>	SQUEEZE RECORD			
Purpose: —— Perforate —— Protect Casing	Depth Top Bottom	Type of Cement	# Sacks Used	1 !	Type and	d Percent Additive	.s
Protect Casing Plug Back TD Plug Off Zone							
Shots Per Foot		TION RECORD - Bridge Pli Footage of Each Interval P			Fracture, Shot, Ceme (Amount and Kind of I		cord Depth
	See Attached Pag	ige					
· · · · · · · · · · · · · · · · · · ·	<u> </u>						
						·	
TUBING RECORD	Size: 2-3/8*	Set At: 1237'	Packer At:	Liner Run;	∐Yes ☑N	No	
Date of First, Resumed 6/25/2010	d Production, SWD or EN	NHR. Producing M		Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours	Oil <1	Bbs. Gas	Mcf	Water	Bbls	Gas-Oil Ratio	Gravity
DISPOSIT	TION OF GAS:		METHOD OF COM	MPLETION.		PRODUCT	TION INTERVAL
☐ Vented ☑ Sok			Perf. D	Dually Comp. 🗍 Co	Commingled Submit ACO-4)		RECE
(n ******.	DITHE ACCU-10.7	Other (Specify)					SEP 1

Layne Energy Operating, LLC #33365



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

Stage #

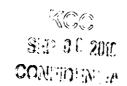
Perforation Record

Acid, Fracture, Shot, Cement Squeeze Record

Stage 1 6/23/2010

Cattleman Sand 1171' - 1187'

13000 Sand (12/20) Brown 280 Water (bbls) 300 HCl (15%) (gal) 3000 Sand (20/40) (lbs)



RECEIVED SEP 1 0 2010 KCC WICHITA

Air Drilling Specialist Oil & Gas Wells

THORNTON AIR ROTARY, LLC

Office Phone: 620-879-2073

PO Box 449 Caney, KS 67333

Date Started	5/24/2010	(4) -}
Date Completed	5/26/2010	

Well No.	Operator	Lease	A.P.I #	County	State
16N-34	Layne Energy Operating	Metrger	15-205-27821	Wison	Kansas

1/4	1/4	1/4	Sec.	l .	Twp.	Rge.
1-2-		 600 11 11 11	34	***	30°	1AE

Driller	Type/Well	Cement Used	Casing Used	Depth	Size of Hole
Sean	Oil	AC 1986 188	41 85/8	1287.	63/A

Formation Record

		roman	,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
0-2	DIRT	744-749	SHALE	1081-1082	COAL
2-8	CLAY	749-769	LIME	1082-1090	SHALE
8-75	LIME	769-788	SAND-OIL ODOR @776	1087	GAS TEST - SAME
75-79	LMY SHALE	788-796	SANDY SHALE	1090-1097	SAND
79-176	SHALE	796-821	SHALE	1097-1122	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-1#, 1/4,MCF-8.95	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	ŤD
429-431	LIME	937	GAS TEST - SAME		
431-440	SHALE	938-950	SHALE		
440-459	LIME	950-966	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-15.7		10000
560-587	SAND	1013-1018	LIME		166
587-610	LIME	1018-1023	SAND		are the sim
610-616	SHALE	1023-1057	SHALE		SCHEID WIN
616-650	LIME	1057-1059	COAL		C. C. Marian
650-705	SHALE	1059-1077	SHALE		
705-730	LIME	1077-1079	LIME		<u> </u>
730-744	LMY SHALE	1079-1081	SHALE		

RECEIVED SEP 1 0 2010 KCC WICHITA

Daily Well Work Report

METZGER 16N-34 5/24/2010

Well Location: WILSON KS

30S-14E-34 SE SE SE SW

256FSL / 2769FEL

Cost Center

Lease Number Property Code API Number G01027400400

G010274 KSSY30S14E3416N

15-205-27821

Spud Date RDMO Date

First Compl

First Prod EFM

EFM Install

CygnetID

5/24/2010

5/27/2010

6/24/2010

6/25/2010

Csg Size

TD PBTD 1287 1279

40

1279

Tbg Size

0

Reported By JM

Rig Number

Sf Csg Depth Pr Csg Depth

Date
Down Time

5/24/2010

Taken By KRD

Present Operation SET SURFACE

Contractor

THORNTON ROTARY D

Narrative

MIRU THORNTON DRILLED 11' HOLE 40 DEEP, RIH W/2 JOINTS 8-5/8" SURFACE CASING MIXED 116 SX TYPE 1 CEMENT, DUMPED DOWN THE BACKSIDE. SDFN



RECEIVED
SEP 1 0 2010
KCC WICHITA





IICKET NUMB	ER 28780
LOCATION	Eureka
FOREMAN	Tran Strictle

PO Box 884, Chanute, KS 66720 620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT

	or 800-467-867	6		CEMEN	IT			
DATE	CUSTOMER #	WELL	NAME & NUM	BER	SECTION	TOWNSHIP	RANGE	COUNTY
5-27-10	4758	Metzs	ec 16 N	L-3Y				wilm
CUSTOMER					1 × 1			55777
La	yne Enem	94			TRUCK#	DRIVER	TRUCK#	DRIVER
MAILING ADDR	E55			İ	520	Rick	I	
P.O.	Box 160				479	John		
CITY		STATE	ZIP CODE	7				<u> </u>
Sycamo	U.E	K _I						 -
JOB TYPE	15 0	HOLE SIZE	6340	 HOLE DEPTI	H_1287'	CASING SIZE & 1	WEIGHT_ YX	~ 10.5*
CASING DEPTH	1279'	DRILL PIPE		_TUBING	<u> </u>		OTHER	
SLURRY WEIGH	tt_13.2 M	SLURRY VOL	HZBI	WATER gal/s	sk 8°	CEMENT LEFT In		
DISPLACEMENT	T_ 20.384	DISPLACEMENT	PSIS CO		000 Bap 84			
REMARKS: S	afel ma	ety: Rig u	u to 4%	" Cathon	Arente C	a lake	1/ 250C L	- 1a -
wad Do	3' 40	PATA	ar A	100t	o Gel wel	H. 11. O.	-7 24 44 K	1
shut Da				and Ch	o dede	Hulle . Pump		
Pre-Fluid		1 .			arketran en		1001 Cary	
		2 ter. 10 RI		uater.			k Set Oco	
8 # / Fot		thenosel.	<u> 427. C</u>	FL-110 +	MZ CAF-	38. <u>@ 13.6</u>	* /gal. La	ech out
Perp +	mer Kel	care Aug.	<u> </u>	ac w	20,3461 1	water Fi	nal Rymon	n Action
_rod are	Sup P	5 to 100	O PCI	majf .	2mm Re	lese Acra	r Flort	Hold
Good C	ement t	refer o	9661	Jun	to pit.			
					30	6 Comply	· · · · · · · · · · · · · · · · · · ·	
						u carpo z		
ACCOUNT CODE	QUANITY	or UNITS	DE	SCRIPTION of	SERVICES or PR	ODUCT	UNIT PRICE	TOTAL
SYOL]	F	PUMP CHARG	SE		565	900.w	900.00
						``	100.00	100.00

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
SYOI		PUMP CHARGE	900.00	900.∞
3106	40	PUMP CHARGE MILEAGE	3.55	142.00
_		MILEAGE CONTRACTOR OF THE STATE		
1126A	13561	Thickset Coment CARPIDENTIAL	16.50	2227.50
1110A	1080#		.40	432.∞
11074	<u> </u>	1/2 Phenassal	1.12	19.04
1135	68*	1/2 OF - 110	7.26	493.68
1146	ੂ ਪ #	442 CAF - 38	7.50	251.00
4		RECEIVED		
1118A	500*	Gel-Plux	- 17	25.0 0
1105	50 *	Hully SEP 1 0 2010	. 38	19.00
1103	100#	Constic sods	1.40	190.00
		KCC WICHIT	A	
YLOLS	7.43	Ton-milage	1.20	356.64
4404	1	44" Top Rubber Ry	44.00	44.00
		Thet	sob tuba	5113.8b
			SALES TAX	19693
avin 3737		834461	ESTIMATED TOTAL	5310.19

AUTHORIZTION withouse by Jacob

TITLE CO-PO

DATE____

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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