

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION 1054379

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

OPERATOR: License #		API No. 15
Name:		Spot Description:
Address 1:		
Address 2:		Feet from North / South Line of Section
City: Sta	ate: Zip:+	Feet from East / West Line of Section
		Footages Calculated from Nearest Outside Section Corner:
		County:
		Lease Name: Well #:
		Field Name:
-		
		Producing Formation:
Designate Type of Completion:		Elevation: Ground: Kelly Bushing:
New Well Re-I	Entry Workover	Total Depth: Plug Back Total Depth:
Oil WSW	SWD SIOW	Amount of Surface Pipe Set and Cemented at: Fee
Gas D&A	ENHR SIGW	Multiple Stage Cementing Collar Used? Yes No
OG	GSW Temp. Abd.	If yes, show depth set: Fee
CM (Coal Bed Methane)		If Alternate II completion, cement circulated from:
Cathodic Other (Core,	Expl., etc.):	feet depth to:w/sx cmi
If Workover/Re-entry: Old Well Info	o as follows:	
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: ppm Fluid volume: bbls
		Dewatering method used:
Plug Back:	Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled	Permit #:	
Dual Completion	Permit #:	Operator Name:
	Permit #:	Lease Name: License #:
	Permit #:	Quarter Sec TwpS. R East Wes
GSW	Permit #:	County: Permit #:
Spud Date or Date Read Recompletion Date	ched TD Completion Date or Recompletion Date	

#### 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.

## Submitted Electronically

KCC Office Use ONLY
Letter of Confidentiality Received
Date:
Confidential Release Date:
Wireline Log Received
Geologist Report Received
UIC Distribution
ALT I II Approved by: Date:

	Side Two	1054379
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East West	County:	

**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 (Attach Additional She	eets)	Yes No	L	-	n (Top), Depth an	d Datum Top	Sample
Samples Sent to Geolog	jical Survey	Yes No				iop	Datam
Cores Taken Electric Log Run Electric Log Submitted E (If no, Submit Copy)	Electronically	<pre> Yes  No  Yes  No  Yes  No</pre>					
List All E. Logs Run:							
		CASING		ew Used			
		Report all strings set	-conductor, surface, inte	ermediate, producti	on, 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

#### ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose: —— Perforate	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Protect Casing Plug Back TD				
Plug Off Zone				

Shots Per Foot				RECORD - Bridge Plugs Set/Type tage of Each Interval Perforated			Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)			Depth
TUBING RECORD:	Siz	:e:	Set At:		Packer	r At:	Liner R	un:	No	
Date of First, Resumed P	Producti	on, SWD or ENHF	₹.	Producing N	1ethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	ər	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITIO	N OF G	BAS:			METHOD	OF COMPLE	TION:		PRODUCTION INT	ERVAL:
Vented Sold		Jsed on Lease		Open Hole	Perf.	Dually (Submit A	Comp. AC <i>O-5)</i>	Commingled (Submit ACO-4)		
(If vented, Subr	nit ACO	-18.)		Other (Specify)						

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

# Well Report ZOOK 1G-3

API Number: Project Area:	AFE Number:W848SYCAMOREAFE Amount:\$0.00KSMontgomery\$1S - 14E - 3500FNL - 575FEL\$000000000000000000000000000000000000
Activity Date	Activity Description
1/4/2011	MIRU Thornton, drilled 11" hole 22' deep, RIH W/1 joint 8-5/8" surface casing. Mixed 4 sx type 1 cement, dumped down the backside. SDFN.
1/5/2011	TIH W/ 6 3/4" BIT, HAMMER AND DRILL PIPE, DRILLED OUT FROM UNDER SURFACE TO 1262', PULLING SAMPLES AND TESTING ZONES OF INTEREST, PULL BIT OFF BOTTOM, WASHED HOLE CLEAN MI OSAGE, PULLED OPEN HOLE LOG FROM TD TO SURFACE. See Driller's Log.
1/6/2011	MI RIH w/32 JOINTS 4-1/2" CASING, RIG UP CONSOLIDATED, BREAK CIRCULATION W/25 BBLS FRESH WATER, 10 SKS GEL FLUSH, 5 BBLS WATER SPACER,20 BBLS CAUSTIC SODA PRE FLUSH, 10 BBLS DYE WATER, MIXED 135 SKS THICKSET CEMENT W/8# KOL SEAL/SK 1/8# PHENO SEAL/SK 1/4% CFL-115, 1/4% CAF-38, @13.4# 1 GAL. SHUT DOWN, WASH OUT PUMP AND LINES RELEASE PLUG, DISPLACE WITH 20 BBLS FRESH WATER FINAL PUMPING PRESSURE 600 PSI. BUMP PLUG TO 1100 PSI. WAIT 2 MINUTES, RELEASE PRESSURE, FLOAT HELD. GOOD CEMENT RETURNS TO SURFACE, 42 BBLS SLURRY, 7 BBLS TO PIT. SD MOL.
	CSG STRING: 32 JOINTS 4-1/2" LANDED CSG @ 1255' PBTD - 1255' TD 1262
	1-14.5' 4-1/2 SUB ON TOP
1/25/2011	MOL RU Osage Wireline. RIH with GR-CCL/VDL Cement Bond log. Logged from 1247' to surface. Good Bond entire wellbore Rig down Osage Wireline. SI Well.

1/25/2011 MIRU Osage Wireline and Consolidated Oil Well Services. Osage RIH and ran Digital Bond Log from 1247' to surface. Good Bond entire well. Perforated Cattleman from 1168' to 1182' with 2 SPF, 180 degree phase, 25 gm charges. (29 HOLES) Consolidated spotted 100 gallons 15% HCL across Cattleman perfs. Spearheaded 300 gals additional (400 total) and dropped 50 ball sealers and balled off perfs. Flowed back to clear perfs. Osage RIH with junkbasket/gauge ring and knocked off ball sealers. Consolidated fracked the Cattleman with 80 bbls PAD of 25 ppt gelled water with 2% KCL and boicide followed with 4,175 lbs 16/30 and 4,250 lbs 12/20 sand @ 0.25 to 1.5 ppg concentrations. Dropped 10 balls during frac. Flushed sand with 25 bbls gelled water. Breakdown 1,622 psig, ISIP 567 psig, 5 min 500 psig, 10 min 439 psig, 15 min 393 psig. ATP 810 psig, MTP 877 psig, ATR 18.3 BPM, MTR 18.6 BPM.

TOTALS 400 gallons 15% HCL, 8,425 lbs 16/30 & 12/20 sand, 370 bbls gelled water.

Shut well in overnight to allow gel to break. Rig down Osage and Consolidated.

1/26/2011TIH W/ TBG WASHED 17' OF SAND TO TD TIH W/ RODS & 6' BHD PMP SPACED OUT ROD<br/>STRING HUNG ON JACK

TUBING STRING 36 JTS 2-3/8 SN @ 1185' 15' OEMA 1200'

ROD STRING 46 - 3/4 RODS 2-8',1-4',1-2' ROD SUBS 1-1/2 X 6' CUP PUMP WITH 4' GTA THD Air Drilling Specialist Oil & Gas Wells

## THORNTON AIR ROTARY, LLC

Office Phone: 620-879-2073

PO Box 449 Caney, KS 67333

Date Started	1/4/2011
Date Completed	1/5/2011

Well No.	Operator	Lease	A.P.I #	County	State
1G-3	Layne Energy Operating	Zook	125-32022-00-00	Montgomery	Kansas
1/4	1/4	1/4	Sec.	Twp.	Rge.

1/4	1/4	1/4	JEC.	iwp.	nge.	
			3	315	14E	

Driller	Type/Well	Cement Used	Casing Used	Depth	Size of Hole	
Billy	Oil	4	21.4' 8 5/8	1262	63/4	

## **Formation Record**

0-4	DIRT	1074-1076	SHALE	
4-76	LIME	1076-1077	COAL (CROWBERG)	
76-280	LMY SHALE	1077-1114	SHALE	
280-290	LIME	1114-1124	SAND	
290-434	SAND (DAMP)	1124-1125	COAL (MINERAL)	
336	WENT TO WATER	1125-1130	SHALE	
434-520	LIME (WET)	1130-1134	SANDY SHALE	
520-619	LMY SHALE	1134-1155	SHALE	
619-651	LIME	1162	GAS TEST-17#,1/4",MCF-42.4	
651-721	SHALE	1155-1160	BLACK SHALE	
721-751	LMY SHALE	1160-1170	SANDY SHALE	
751-760	LIME	1170-1184	SAND / OIL ODOR	
760-780	SHALE	1184-1186	SANDY SHALE	
780-784	SAND	1186-1187	COAL (WEIR)	
784-875	SANDY SHALE	1187-1262	SHALE	
875-876	COAL (MULBERRY)	1212	GAS TEST - SAME	
876-879	SHALE	1262	TD	
879-912	LIME (PAWNEE)			
912-919	BLK SHALE (LEXINGTON)			
919-963	SHALE			
963-985	LIME (OSWEGO)			
985-995	BLK SHALE (SUMMIT)			
995-1006	LIME			
1006-1009	BLACK SHALE			
1009-1010	COAL (MULKEY)			
1010-1016	LIME			
1016-1057	SHALE			
1057-1058	COAL			
1058-1072	SHALE			
1072-1074	LIME			





TICKET NUMBER 30119

LOCATION Eureta

FOREMAN Tray Strickler

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

## FIELD TICKET & TREATMENT REPORT

OLO TOT OLTO	0. 000 401 001			CEIMENI						
DATE	CUSTOMER #	WELL	NAME & NUME	BER	SECTION	TOWNSHIP	RANGE	COUNTY		
	4758	Zook	16-3					MG		
CUSTOMER	_			Safety .		in the second second	nte des parties	A CONTRACT		
Layne Energy				mach	TRUCK #	DRIVER	TRUCK #	DRIVER		
P.O. Box 160				J.S. CH	445	John				
					SLT	Allen 6.				
CITY		STATE	ZIP CODE	1 F						
Sycam	ore	Ks								
JOB TYPE L		HOLE SIZE	63kg	HOLE DEPTH	1262'	CASING SIZE & W	/EIGHT 4%	to .		
CASING DEPTH_1255 DRILL PIPETUBINGOTHER										
SLURRY WEIGHT 13.4 SLURRY VOL 42 BLI WATER gal/sk 8 CEMENT LEFT in CASING 0'										
DISPLACEMENT 206 DISPLACEMENT PSI 600 MIX PSI 1100 RATE										
REMARKS: Safety Meeting) Rig upto 41/2" Casing. Break Circulation w/ 25 Chi Fresh water.										
Pump 10sk Gel-Fluck w/ Hulls, SBW Water spacer, 20Bbi Courtic Joda Pre-Fluck,										
10Bbi due water. Mixed 135 ski Thick set Cement w/ 8+ Kol-Seel 1sk.										
1/2# phenoseal 1sk + 1/47 FL-115 @ 13.4#/al. Washout Augs + lines Release Aug.										
Displace w/ 20 Bbi Fresh water. Final Pumping pressure 600 PSJ. Runs										
Plug to 1100 PSI. Wait 2mirs. Release Pressure. Float Held. Good										
Coment to surface = 7 . Bbl slurg to pit.										
				/ /						

## Jub Complete

ACCOUNT				
ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	925.00	925.00
5406	40	MILEAGE	3.65	146.00
1126A	135541	Thick Set Cement	17.00'	2295.00
1110 A	1080 #	8# Kol-Seal /sk	,42 P	453.60
1107A	17#	1/8# Phonoscal Isk	1.15#	19.55
1135A	32 #	1472 FL-115	9.95 *	318.40
11186	500 #	Gel- Fluch	.20	100.00
1103	100 #	Caustic Soda	1.45	145.00
SYOTA	7.43 Non	Ton- Mileare	1.20	356.64
4404		45" Top Rubber Any	45.00	45.00
	2	Thank In		
			SUB Total	4804.19
Ravin 3737		6.3%	SALES TAX	212.7.4
		111LE Prolling Journa	ESTIMATED TOTAL	5016.93
AUTHORIZTION	Dowy Multa	TITLE Detller tours	DATE	

I acknowledge that the payment terms, unless specifically amended 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.

Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802

Thomas E. Wright, Chairman Ward Loyd, Commissioner



phone: 316-337-6200 fax: 316-337-6211 http://kcc.ks.gov/

Corporation Commission

Sam Brownback, Governor

April 20, 2011

Victor H. Dyal Layne Energy Operating, LLC 1900 SHAWNEE MISSION PKWY MISSION WOODS, KS 66205-2001

Re: ACO1 API 15-125-32022-00-00 ZOOK 1G-3 NE/4 Sec.03-31S-14E Montgomery County, Kansas

**Dear Production Department:** 

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully, Victor H. Dyal