

Kansas Corporation Commission Oil & Gas Conservation Division

1054300

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:	SecTwpS. R
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	County:
Name:	Lease Name: Well #:
Wellsite Geologist:	Field Name:
Purchaser:	Producing Formation:
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
☐ New Well ☐ Re-Entry ☐ Workover	Total Depth: Plug Back Total Depth:
☐ Oil ☐ WSW ☐ SIOW ☐ Gas ☐ D&A ☐ ENHR ☐ SIGW ☐ OG ☐ GSW ☐ Temp. Abd. ☐ CM (Coal Bed Methane) ☐ Cathodic ☐ Other (Core, Expl., etc.):	Amount of Surface Pipe Set and Cemented at: Feet Multiple Stage Cementing Collar Used?
If Workover/Re-entry: Old Well Info as follows:	·
Operator: Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth: Conv. to ENHR	Chloride content: ppm Fluid volume: bbls Dewatering method used:
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	Quarter Sec TwpS. R
☐ ENHR Permit #: ☐ GSW Permit #:	County: Permit #:
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date 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 III Approved by: Date:

Side Two



Operator Name:			Lease Name:			_ Well #:	
Sec Twp	S. R	East West	County:				
time tool open and clo	sed, flowing and shues if gas to surface to	nd base of formations put-in pressures, whether est, along with final chall well site report.	er shut-in pressure re	ached static level,	hydrostatic press	sures, bottom h	ole temperature, fluid
Drill Stem Tests Taken (Attach Additional S		Yes No		_og Formatio	n (Top), Depth an	d Datum	Sample
Samples Sent to Geol	ogical Survey	Yes No	Nar	ne		Тор	Datum
Cores Taken Electric Log Run Electric Log Submitted (If no, Submit Copy	d Electronically	Yes No Yes No Yes No					
List All E. Logs Run:							
				lew Used			
Purpose of String	Size Hole	Report all strings s	set-conductor, surface, in Weight	Setting	on, etc. Type of	# Sacks	Type and Percent
r dipose of Stillig	Drilled	Set (In O.D.)	Lbs. / Ft.	Depth	Cement	Used	Additives
	I	ADDITION	NAL CEMENTING / SC	UEEZE RECORD			l .
Purpose:	Depth	Type of Cement	# Sacks Used		Type and F	Percent Additives	
Perforate Protect Casing	Top Bottom	31					
Plug Back TD							
Plug Off Zone							
Shots Per Foot	PERFORATI Specify	ION RECORD - Bridge F Footage of Each Interval	Plugs Set/Type Perforated		cture, Shot, Cement mount and Kind of Ma		Depth
TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:	Yes No		
Date of First, Resumed	Production, SWD or EN	NHR. Producing N		Gas Lift C	Other (Explain)		
Estimated Production Per 24 Hours	Oil	Bbls. Gas	Mcf Wa	ater Bl	ols. (Gas-Oil Ratio	Gravity
DIODOGITIC	DN 05 040		METHOD OF OOLS	FTION		DDOD! IOT!	AN INTERVAL
	ON OF GAS:	Open Hole	METHOD OF COMPI		nmingled	PRODUCTIO	ON INTERVAL:
Vented Sold		Other (Specify)	(Submi		mit ACO-4)		

THORNTON AIR ROTARY, LLC

Office Phone: 620-879-2073

PO Box 449 Caney, KS 67333

Date Started	12/28/2010
Date Completed	12/29/2010

Well No.	Operator	Lease	A.P.I #	County	State
1R-3	Layne Energy Operating	Zook	125-32016-00-00	Montgomery	Kansas
1/4	1/4	1/4	Sec.	Twp.	Rge.

Driller	Type/Well	Cement Used	Casir	ng Used		Depth	Size of I	lole
Billy	Oil	4	21'	8 5/8	П	1287	63/4	

Formation Record

-		·				
0-4	DIRT	1017-1021	BLACK SHALE			
4-76	LIME	1021-1022	COAL (MULKEY)			
76-286	LMY SHALE	1022-1028	LIME			
286-291	LIME	1028-1070	SHALE			
291-396	SAND (DAMP)	1070-1071	COAL			
311	WENT TO WATER	1071-1084	SHALE			
396-399	LIME	1084-1086	LIME			
399-430	SHALE	1086-1088	SHALE			
430-463	LIME	1088-1089	COAL (CROWBERG)			
463-512	LMY SHALE	1089-1130	SHALE			
512-532	LIME	1130-1132	COAL (MINERAL)			
532-537	BLACK SHALE	1132-1173	SHALE			
537-560	LIME	1162	GAS TEST - NO GAS	\Box		
560-596	SANDY SHALE	1173-1178	BLACK SHALE			
596-617	LIME	1178-1182	SANDY SHALE			
617-625	SHALE	1182-1196	SAND / OIL ODOR			
625-655	LIME	1196-1198	COAL (WEIR)			
655-712	SHALE	1198-1207	SHALE			
712-726	LIME	1207-1219	SANDY SHALE			
726-753	SHALE	1212	GAS TEST - SAME			
753-778	LIME	1219-1228	SAND/SDY SHALE / LT OIL ODOR			
778-791	SAND	1228-1255	SHALE.			
791-887	SHALE	1255-1260	SAND	П		
887-888	COAL (MULBERRY)	1260-1287	SHALE	П		
888-918	LIME (PAWNEE)	1287	TD			
918-925	BLK SHALE (LEXINGTON)					
925-974	SHALE					
974-997	LIME (OSWEGO)					
997-1005	BLK SHALE (SUMMIT)					
1005-1017	LIME					
						·····

Well Report zook 1R-3

API Number: Project Area:

SYCAMORE

KS Montgomery

31S - 14E - 3 1354FNL - 170FEL **AFE Number:** W846 **AFE Amount:** \$0.00

Activity Date	Activity Description
12/28/2010	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.
12/29/2010	TIH W/ 6 3/4" BIT, HAMMER AND DRILL PIPE, DRILLED OUT FROM UNDER SURFACE TO 1287', 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 LOGGING TOOL HAD GOOD OIL SHOW WHEN FINISHED RUN.
12/30/2010	MI RIH w/33 JOINTS 4-1/2" CASING, RIG UP CONSOLIDATED, BREAK CIRCULATION W/25 BBLS FRESH WATER, WASHED DOWN 6' PUMP 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 1/2% CFL-110, 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 1000 PSI. WAIT 2 MINUTES, RELEASE PRESSURE, FLOAT HELD. GOOD CEMENT RETURNS TO SURFACE, 42 BBLS SLURRY, 9 BBLS TO PIT. SD MOL. MAY HAVE A MIXTURE ON 10.5 AND 9.5 LIMITED SERVICE CASING DISPLACEMENT WAS .5 BBL OFF. CSG STRING: 33 JOINTS 4-1/2" LANDED CSG @ 1280.6' PBTD - 1280.6' TD 1287

Tuesday, April 19, 2011 Page 1 of 2

1/18/2011

MIRU Osage Wireline and Consolidated Oil Well Services. Osage RIH and ran Digital Bond Log from 1274' to surface. Good Bond entire well. Perforated Cattleman from 1180' to 1192' with 2 SPF, 180 degree phase, 25 gm charges. (25 HOLES) Consolidated spotted 100 gallons 15% HCL across Cattleman perfs. Spearheaded 300 gals additional (400 total) and dropped 40 ball sealers and balled off perfs. Transducer on Blender malfunctioned during balloff. Flowed back to clear perfs. Osage RIH with junkbasket/gauge ring and knocked off ball sealers. Consolidated fracked the Cattleman with 90 bbls PAD of 25 ppt gelled water with 2% KCL and boicide followed with 7,000 lbs 16/30 and 7,400 lbs 12/20 sand @ 0.25 to 2.5 ppg concentrations. Dropped 10 balls during frac. Flushed sand with 20 bbls gelled water. Due to malfunctioning of blender transducer, we used additional water during job and ran out at end of flush.

Breakdown 1,554 psig, ISIP 575 psig, 5 min 510 psig, 10 min 475 psig, 15 min 442 psig. ATP 1060 psig, MTP 1152 psig, ATR 26.0 BPM, MTR 26.3 BPM.

TOTALS 400 gallons 15% HCL, 14,400 lbs 16/30 & 12/20 sand, 400 bbls gelled water.

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

1/19/2011

TIH W/ TBG WASHED 40 FT OF SAND TO TD HUNG OFF TBG TIH W/ ROD STRING SPACED OUT ROD STRING HUNG ON JACK PLUMED IN WELL HEAD WOP.

TUBING STRING 37 JTS 2-3/8 SN @ 1216' 15' OEMA 1232'

ROD STRING 48 - 3/4 RODS 1-6' 1-2' ROD SUBS 1-1/2 X 6' CUP PUMP WITH 4' GTA THD

Tuesday, April 19, 2011 Page 2 of 2





TICKET NUMBER LOCATION EURKA KS FOREMAN RICK Ledford

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

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER#	WE	LL NAME & NU	MBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-30-10	4758	200x	12-3					MG
CUSTOMER	_	-		Salety				
MAILING ADDRESS				mereng	TRUCK#	DRIVER	TRUCK#	DRIVER
				5.5 B	445	John		
V.C	1. Box 160)			515	Alka B.		
CITY		STATE	ZIP CODE					
Syca	more	145						
JOB TYPE	strong O	HOLE SIZE_	63/4"	HOLE DEPTH	/287'	CASING SIZE & W	EIGHT 41/2"	· · · · · · · · · · · · · · · · · · ·
CASING DEPTH	1281'	DRILL PIPE_		TUBING			OTHER	
SLURRY WEIGH	T <u>/3.9 **</u>	SLURRY VOL	42 BW	WATER gal/si	80	CEMENT LEFT in	CASING O'	
DISPLACEMENT	20.4	DISPLACEME	NT PSI /600	_ NEEK PSI /04	20	RATE		
REMARKS: 5	afety mea	109 - Rie	w to	Y'' Cesion	Been	Circulation .	125 0	-Ca-1
uate. I	Jashdan	14 to PS	TA. Pune	24 SFS 9	el-flush	/ hells, 5 B	برملا <u>. ده ک</u>	4555
20 861	Coustic Son	la pre-flu	sh 10 Ki	al due conte	المكارية	135 sus th	:	***
4/8" K	ol-see Jak.	& Bheres	1/50 /27	CONA + Yu	Or CARSO	e /34#/30	1 1301 -	NOTE
& lines	ce been also	Disch	1 70	1 ALL CAR	نگ بول د	nal pump pressur	LAShout	Party
Burn alu	of the	011	0	en lana a	LIGHT. TH	141 purp presser	2 600 Y	34 ,
to a Co	9 10 101	L		CIEDY	A A	theld Good	Clourt 10	tues s
<u> </u>	ce = 9 6W	Slully th	(1.c.)	an camplett	Kig den			
-		_	1 -TL.	nu %."				

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401		PUMP CHARGE	925.00	925.00
5406	40	MILEAGE	3.65	146.00
1126A	135 348	thickset cent	17.00	2295.00
IIIOA	1080 *	8" Kol-seal /s.x	. 42	453.60
1107A	17 "	1/8+ phonescal /sk	1.15	19.55
1/35	48#	1290 CJL-110	7.50	510.00
1146	34**	1470 CAF-38	7.70	261.80
11186	500#	gel-flish	, 20	100.00
1105	50**	hulls	. 39	19.50
1103	100*	Caustic sada	1.45	145.00
5467A	7, 43	ton mileage bulk tok	1.26	356.64
4404		tro mileage bulk tok	45.00	45.00
		(a. ³⁶	Subtata) SALES TAX	5277.0
3737		038913	ESTIMATED	242.53

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



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

Thomas E. Wright, Chairman Ward Loyd, Commissioner Corporation Commission

Sam Brownback, Governor

April 19, 2011

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

Re: ACO1 API 15-125-32016-00-00 ZOOK 1R-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