

CONFIDENTIAL

*for
file
3/30/09*

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL *4/30/11*

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 33365
Name: Layne Energy Operating, LLC
Address: 1900 Shawnee Mission Parkway
City/State/Zip: Mission Woods, KS 66205
Purchaser: _____
Operator Contact Person: Timothy H. Wright
Phone: (913) 748-3960
Contractor: Name: McPherson Drilling
License: 5675

Wellsite Geologist: _____
Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows: _____
Operator: _____
Well Name: _____
Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to Enhr./SWD
 Plug Back Plug Back Total Depth
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. D-30,352

10/30/2008 11/4/2008 12/2/2008
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 125-31808-00-00 D-30,352
County: Montgomery
SW SW SW SW Sec. 20 Twp. 32 S. R. 14 East West
115 feet from (S) N (circle one) Line of Section
105 5115 feet from (E) W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE (SE) NW (SW)
Lease Name: Oliver SWD Well #: 13-20
Field Name: Sorghum Hollow

Producing Formation: Arbuckle Disposal
Elevation: Ground: 835' Kelly Bushing: _____
Total Depth: 1920' Plug Back Total Depth: 1711'
Amount of Surface Pipe Set and Cemented at 43 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from 1711
feet depth to Surface w/ 300 sx cmt.

Drilling Fluid Management Plan SWD N3 4-14-09
(Data must be collected from the Reserve Pit)
Chloride content N/A ppm Fluid volume _____ bbls
Dewatering method used N/A - Air Drilled
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

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.

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.

Signature: _____
Title: Project Engineer Date: 1-30-09
Subscribed and sworn to before me this 30 day of January,
20 09.
Notary Public: MacLaughlin Darling
Date Commission Expires: 1-4-2013

KCC Office Use ONLY

Letter of Confidentiality Attached
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution (Pl. Issued) *Permit by PK*

MacLAUGHLIN DARLING
Notary Public - State of Kansas
My Appt. Expires 1-4-2013

Operator Name: Layne Energy Operating, LLC Lease Name: Oliver SWD Well #: 13-20
 Sec. 20 Twp. 32 S. R. 14 East West County: Montgomery

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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 copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken Yes No
 (Attach Additional Sheets)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
 (Submit Copy)

List All E. Logs Run:

Compensated Density Neutron
 Dual Induction

Name	Top	Datum
Pawnee Lime	897 GL	-62
Excello Shale	1045 GL	-210
V-Shale	1090 GL	-255
Mineral Coal	1137 GL	-302
Mississippian	1411 GL	-576

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	# Sacs Used	Type and Percent Additives
Surface	11"	8.625"	24	43'	Class A	8	Type 1 cement
Casing	6.75"	5.5"	10.5	1711'	Thick Set	300	50/50 posmix w/2% gel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
	Open Hole Arbuckle 1710' - 1920'		1710' - 1920'

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2-7/8"	1676'	1676'	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.		Producing Method			
1/15/2009		<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 Vented Sold Used on Lease (If vented, Submit ACO-18.)

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled

Production Interval Other (Specify) Arbuckle Disposal

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 FEB 02 2009
 CONSERVATION DIVISION
 WICHITA, KS

GEOLOGIC REPORT

LAYNE ENERGY
Oliver 13-20 SWD
SW SW, 115 FSL, 165 FWL
Section 20-T32S-R14E
Montgomery County, KS

Spud Date: 10/30/2008
Drilling Completed: 11/4/2008
Logged: 11/4/2008
A.P.I. #: 15125318080000
Ground Elevation: 835
Depth Driller: 1920
Depth Logger: 1928
Surface Casing: 8.625 inches at 43'
Production Casing: 5.5 inches at 1,711'
Cemented Job:
Open Hole Logs: High Resolution Compensated Density Sidewall
Neutron Log; Dual Induction LL3/GR Log

Formation

	Tops	
	(below ground)	(subsea)
	Surface (Weston	
Douglas Group	Shale Member)	835
Pawnee Limestone	897	-62
Excello Shale	1,045	-210
"V" Shale	1,090	-255
Mineral Coal	1,137	-302
Mississippian	1,411	-576

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CONSERVATION DIVISION
WICHITA, KS

Daily Well Work Report

OLIVER 13-20 SWD

11/4/2008

Well Location:

MONTGOMERY KS
32S-14E-20 SW SW SW SW
115FSL / 165FWL

Cost Center

G01016200500

Lease Number

G010162

Property Code

KSSY32S14E2013D

API Number

15-125-31808

Spud Date	RDMO Date	First Compl	First Prod	EFM Install	CygnnetID
10/30/2008	11/4/2008	12/2/2008			
TD	PBTD	Sf Csg Depth	Pr Csg Depth	Tbg Size	Csg Size
1920	1711	43	5.5	0	0

Reported By KR D

Rig Number

Date

10/30/2008

Taken By KR D

Down Time

Present Operation DRILL OUT SURFACE

Contractor

MCPHERSON DRILLING

Narrative

MIRU MCPHERSON DRILLING, DRILLED 11" HOLE, 43' DEEP, RIH W/2 JT 8 5/8" SURFACE CASING, MIXED 8 SX TYPE 1 CEMENT, DUMPED DOWN THE BACKSIDE. SDFN.
DWC:\$3160

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CONSERVATION DIVISION
WICHITA, KS



CONSOLIDATED
Oil Well Services, LLC



ENTERED

TICKET NUMBER 20380

LOCATION EVANS

FOREMAN Rick Ledford

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

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY																
11-5-08	4758	Oliver 13-20 SWO				MOG																
CUSTOMER <u>Layne Energy</u>			<table border="1"> <thead> <tr> <th>TRUCK #</th> <th>DRIVER</th> <th>TRUCK #</th> <th>DRIVER</th> </tr> </thead> <tbody> <tr> <td>463</td> <td>Shannon</td> <td></td> <td></td> </tr> <tr> <td>479</td> <td>John</td> <td></td> <td></td> </tr> <tr> <td>439</td> <td>Colin</td> <td></td> <td></td> </tr> </tbody> </table>				TRUCK #	DRIVER	TRUCK #	DRIVER	463	Shannon			479	John			439	Colin		
TRUCK #	DRIVER	TRUCK #					DRIVER															
463	Shannon																					
479	John																					
439	Colin																					
MAILING ADDRESS <u>P.O. Box 100</u>																						
CITY <u>Sycamore</u>	STATE <u>KS</u>	ZIP CODE																				

JOB TYPE longstring HOLE SIZE 7 7/8" HOLE DEPTH 1920' CASING SIZE & WEIGHT 5 1/2" 15.50"
 CASING DEPTH 1712' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14" SLURRY VOL _____ WATER gal/sk 7.0 CEMENT LEFT in CASING 0'
 DISPLACEMENT 40 3/4 gal DISPLACEMENT PSI 700 ^{Day} PSI 1200 RATE 4.7 bpm while displacing

REMARKS: Safety meeting. Rig up to 5 1/2" casing w/ washhead. Break circulation w/ 110 Bbl fresh water. Mixed 10 sacks gel-slush, 5 Bbl water spacer. Mixed 300 sacks 60/40 Premix cement w/ 470 gal, 270 CACER + 5# Kel-seal 1 1/2" @ 14" / sack. without pump + lines, shut down, release 5 1/2" rubber plug. Displace w/ 40 3/4 gal fresh water. Final pump pressure 700 PSI. Pump plug to 1200 PSI, wait 2 minutes, release pressure, float held. Good cement returns to surface = 13 Bbl slurry to pit. Job complete. Rig down.

" Thank You "

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	925.00	925.00
5406	1	MILEAGE 2 ⁰⁰ well of 2	7/6	7/6
1131	300 sacks	60/40 Premix cement	11.35	3405.00
1118A	1030"	470 gal	.17	175.10
1110A	1500"	5# Kel-seal 1 1/2" KCC	.42	630.00
1102	515"	270 CACER JAN 3 0 2009	.25	386.25
1118A	500"	gel-slush CONFIDENTIAL	.17	85.00
5407A	12.9	ten-mileage bulk tire	1.80	619.20
4406	1	5 1/2" top rubber plug	61.00	61.00
5605A	4 hrs	welder RECEIVED KANSAS CORPORATION COMMISSION	85.00	340.00
		FEB 0 2 2009		
		CONSERVATION DIVISION WICHITA KS		
		5.32	SALES TAX	6626.55
			ESTIMATED	251.35
			TOTAL	6877.90

Ravin 3737

007061

AUTHORIZATION witnessed by Jacob

TITLE Co. Rep

DATE _____