

ORIGINAL

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
September 1999  
Form Must Be Typed

CONFIDENTIAL

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

5/04/11

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: Thornton Drilling  
License: 33606  
Wellsite Geologist: \_\_\_\_\_

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MAY 04 2009

Designate Type of Completion: KCC  
 New Well  Re-Entry  Workover  
 Oil  SWD  SIOW  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. \_\_\_\_\_

1/20/2009	1/21/2009	Pending
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 205-27745-00-00  
County: Wilson  
W2 NE SW Sec. 21 Twp. 30 S. R. 16  East  West  
2077 FSL feet from S / N (circle one) Line of Section  
1778 FWL feet from E / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW SW  
Lease Name: Sandbothe Well #: 11-21

Field Name: Cherokee Basin Coal Area  
Producing Formation: Cherokee Coals  
Elevation: Ground: 793' Kelly Bushing: \_\_\_\_\_  
Total Depth: 1111' Plug Back Total Depth: 1108'  
Amount of Surface Pipe Set and Cemented at 45 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from 1108'  
feet depth to Surface w/ 115 sy cmt.

Alt 2-Dig - 6/16/09

Drilling Fluid Management Plan  
(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: 4/30/09  
Subscribed and sworn to before me this 30 day of April  
20 09  
Notary Public: MacLaughlin Darling  
Date Commission Expires: 1-4-2013

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

KCC Office Use ONLY  
 Letter of Confidentiality Received  
If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
KANSAS CORPORATION COMMISSION  
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Operator Name: Layne Energy Operating, LLC Lease Name: Sandbothe Well #: 11-21  
 Sec. 21 Twp. 30 S. R. 16  East  West County: Wilson

**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

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 KCC

Log Formation (Top), Depth and Datum  Sample

Name	Top	Datum
Pawnee Lime	521 GL	272
Excello Shale	647 GL	146
V-Shale	707 GL	86
Mineral Coal	745 GL	49
Mississippian	1056 GL	-263

CASING RECORD <input 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	# Sacks Used	Type and Percent Additives
Surface	11"	8.625"	24	45'	Class A	8	Type 1 cement
Casing	6.75"	4.5"	10.5	1108'	Thick Set	115	8 lbs KOL seal

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing				
___ Plug Back TD				
___ 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

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TUBING RECORD		Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)				
Pending					
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	0				

Disposition of Gas  Vented  Sold  Used on Lease (If vented, Submit ACO-18.)

METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) \_\_\_\_\_

Production Interval \_\_\_\_\_

# Layne Energy, Inc.

1900 Shawnee Mission Parkway, Mission Woods, Kansas 66205 Phone: (913) 748-3987 Fax: (913) 748-3950

May 4, 2009

Mr. Steve Bond  
Kansas Corporation Commission  
Oil & Gas Conservation Division  
130 S. Market, Room 2078  
Wichita, KS 67202

KANSAS CORPORATION COMMISSION

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Re: Well Completion Form

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MAY 04 2009

Dear Mr. Bond:

KCC

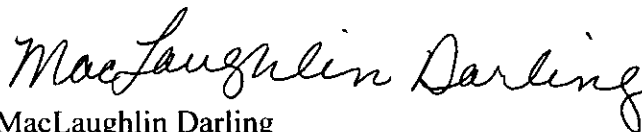
I have enclosed the ACO-1 form and associated data for the following well:

API # 15-205-27745-00-00  
Sandbothe 11-21

We respectfully request that all information submitted be kept confidential. Per provision E-4 of K.A. R. 82-3-107, we request that the term of the confidentiality be extended by one year.

If you need additional information, please contact me at (913) 748-3960.

Sincerely,



MacLaughlin Darling  
Engineering Technician

Enclosures





**CONSOLIDATED**  
Oil Well Services, L.L.C.

*for my*  
**ENTERED**

TICKET NUMBER 20802  
LOCATION Florida  
FOREMAN Troy Stacker

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

**FIELD TICKET & TREATMENT REPORT**

**SANDBOTHE CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1-22-09	4758	Sambath 11-21				41/600
CUSTOMER			TRUCK # DRIVER TRUCK # DRIVER			
Layne Energy			520 Cliff			
MAILING ADDRESS			459 Calvin			
P.O. Box 160						
CITY		STATE	ZIP CODE			
Sycamore		Ks				

JOB TYPE L/S HOLE SIZE 6 3/4" HOLE DEPTH 1110' CASING SIZE & WEIGHT 4 1/2" 105"  
 CASING DEPTH 1108' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 13.4" SLURRY VOL 35.5Bbl WATER gal/sk 8" CEMENT LEFT in CASING 0'  
 DISPLACEMENT 17.6Bbl DISPLACEMENT PSI 400 MIX PSI 900Byp Ply RATE \_\_\_\_\_

REMARKS: Safety meeting: Rig up to 4 1/2" casing. Break circulation w/ 50Bbl water. Pump 10sk Gal-Flush w/ Hulls. 2Bbl Water spacer. Mixed 11.5sk Thick Set Cement w/ 8" Kol-Seal 1sk, 1/2" Phenacal 1/2sk, 1/2" CFL-110, 1/2" CAF-38 @ 13.4" gal. Wash out Pump + lines Release Plug Displace w/ 17.6Bbl water. Final Pump Pressure 400 PSI. Bump Plug to 900PSI wait 2mins. Release Pressure. Float Held. Good Cement to surface - 8Bbl Slurry to Pit. Displaced @ 4Bbl/min.

Job Complete.

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ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	870.00	870.00
5406	40	MILEAGE	3.45	138.00
1126A	115sk	Thick Set Cement	16.00	1840.00
1110A	920"	Kol-Seal 8" 1/2"	.39"	358.80
1107A	15"	Phenacal 1/2" 1/2sk	1.08"	16.20
1135	54"	CFL-110 1/2"	7.95"	380.70
1146	27"	CAF-38 1/2"	7.25"	195.75
1118A	500"	Gal-Flush	.16"	80.00
1105	50"	Hulls	.37"	18.50
5407A	6.3 Ten	Top Mileage	1.16	292.32
4404	1	4 1/2" Top Rubber Plug	43.00	43.00
5605A	4hrs	Welder	23.00	92.00
4311	1	4 1/2" weldon Collar	70.00	70.00
		Sub Total		4643.27
		6.3%	SALES TAX	189.18
		Thank!	ESTIMATED TOTAL	4832.45

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Revin 3737

AUTHORIZATION Called by Mopper TITLE Co-Op DATE \_\_\_\_\_

4832.45

**GEOLOGIC REPORT**

LAYNE ENERGY

Sandbothe 11-21

*W2*  
NW NE SW, 2,077 FSL, 1,778 FWL

Section 21-T30S-R16E

Wilson County, KS

*km*  
*1/20/09*

Spud Date: 1/20/2009  
Drilling Completed: 1/21/2009  
Logged: 1/21/2009  
A.P.I. #: 15205277450000  
Ground Elevation: 793  
Depth Driller: 1,111  
Depth Logger: 1,113  
Surface Casing: 8.625 inches at 45'  
Production Casing: 4.5 inches at 1,108'  
Cemented Job:  
Open Hole Logs: High Resolution Compensated Density Sidewall  
Neutron Log; Dual Induction LL3/GR Log

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**Formation**

*KCC*

**Tops**

**(below ground)**

**(subsea)**

	(below ground)	(subsea)
Surface (Iola		
Limestone)		793
Kansas City Group		
Pawnee Limestone	521	272
Excello Shale	647	146
"V" Shale	707	86
Mineral Coal	745	49
Mississippian	1,056	-263

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# Daily Well Work Report

SANDBOTHE 11-21

1/20/2009

**Well Location:**

WILSON KS  
30S-16E-21 W2 NE SW  
2077FSL / 1778FWL

**Cost Center**

C01034300100

**Lease Number**

C010343

**Property Code**

KSCV30S16E2111

**API Number**

15-205-27745

**Spud Date**    **RDMO Date**    **First Compl**    **First Prod**    **EFM Install**    **CygnetiD**

1/20/2009    1/21/2009

**TD**    **PBTD**    **Sf Csg Depth**    **Pr Csg Depth**    **Tbg Size**    **Csg Size**

1111    1108    45    1108    0    0

**Reported By**    KRD

**Rig Number**

**Date**

1/20/2009

**Taken By**    KRD

**Down Time**

**Present Operation**    DRILL OUT SURFACE

**Contractor**

THORNTON DRILLING

**Narrative**

MIRU THORNTON DRILLING, DRILLED 11" HOLE, 45' DEEP, RIH W/2 JT 8 5/8" SURFACE CASING, MIXED 8 SX  
TYPE 1 CEMENT, DUMPED DOWN THE BACKSIDE. SDFN.

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DWC:33160

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