

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

ORIGINAL

Operator: License # 33365
Name: Layne Energy Operating, LLC
Address: 1900 Shawnee Mission Parkway
City/State/Zip: Mission Woods, KS 66205
Purchaser: _____
Operator Contact Person: Victor H. Dyal
Phone: (913) 748-3987
Contractor: Name: McPherson Drilling
License: 5675
Wellsite Geologist: _____
Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW Core
 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. _____
November 15, 2004 November 19, 2004
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 205-25914 - 00-00
County: Wilson
W/2 SE NW NE Sec. 21 Twp. 30 S. R. 17 East West
1000 feet from S / (circle one) Line of Section
1848 feet from E W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Badgley Well #: 2-21
Field Name: Neodesha
Producing Formation: Cherokee Coals
Elevation: Ground: 908 Kelly Bushing: _____
Total Depth: 1160 Plug Back Total Depth: 1145
Amount of Surface Pipe Set and Cemented at 20 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from 1153
feet depth to Surface w/ 135 sx cmt.

Drilling Fluid Management Plan ALTJWH
(Data must be collected from the Reserve Pit) 6-25-07
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.: _____

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MAR 16 2005
CONSERVATION DIVISION
WICHITA, KS
KCC
MAR 14 2005

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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: [Signature]
Title: Agent Date: 3/14/2005
Subscribed and sworn to before me this _____ day of _____,
20_____.
Notary Public: _____
Date Commission Expires: _____

KCC Office Use ONLY
YES Letter of Confidentiality Attached
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

✓

ORIGINAL

Side Two

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Operator Name: Layne Energy Operating, LLC. Lease Name: Badgley Well #: 2-21
 Sec. 21 Twp. 30 S. R. 17 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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i> List All E. Logs Run: Compensated Density Neutron Dual Induction	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th style="width:15%;">Top</th> <th style="width:15%;">Datum</th> </tr> </thead> <tbody> <tr> <td>Pawnee Lime</td> <td>535 GL</td> <td>373</td> </tr> <tr> <td>Excello Shale</td> <td>661 GL</td> <td>247</td> </tr> <tr> <td>V Shale</td> <td>726 GL</td> <td>182</td> </tr> <tr> <td>Mineral Coal</td> <td>737 GL</td> <td>171</td> </tr> <tr> <td>Mississippian</td> <td>1056 GL</td> <td>-148</td> </tr> </tbody> </table>	Name	Top	Datum	Pawnee Lime	535 GL	373	Excello Shale	661 GL	247	V Shale	726 GL	182	Mineral Coal	737 GL	171	Mississippian	1056 GL	-148
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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	8.65	24	20	Class A	8	Type 1 cement
Casing	6.75	4.5	10.5	1153	Thick Set	135	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose: <input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<div style="display: flex; justify-content: space-between;"> <div> <p>RECEIVED KANSAS CORPORATION COMMISSION MAR 16 2005</p> </div> <div> <p>CONSERVATION DIVISION WICHITA, KS</p> </div> </div>				

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

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumerd Production, SWD or Enhr. SI - Waiting on completion	Producing Method <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 <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	Production Interval _____
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WICHITA, KS

GEOLOGIC REPORT

LAYNE ENERGY

Badgley 2-21

NW ¼, NE ¼, 944' FNL, 1,961' FEL

Section 21-T30S-R17E

WILSON COUNTY, KANSAS

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Drilled: November 15-19, 2004

Logged: November 19, 2004

A.P.I.# 15-205-25914-~~00-00~~

Ground Elevation: 908'

Depth Driller: 1,160'

Depth Logger: 1,163'

Surface Casing: 8 5/8" @ 20'

Production Casing: 4 1/2" @ 1,153'

Cemented Job: Consolidated

Open Hole Logs: Compensated density neutron log, dual induction sfl/gr log

FORMATION.....TOPS (in feet below ground surface)

Kansas City Group.....Surface (Chanute Shale Formation)

Lenapah Lime.....352

Altamont Lime.....388

Pawnee Lime.....535

Anna Shale.....565

First Oswego Lime.....610

Little Osage Shale.....644

Excello Shale.....661

Mulky Coal.....666

Iron Post Coal.....702

Bevier Coal.....706

"V" Shale.....726

Croweburg Coal.....728

Mineral Coal.....764

Tebo Coal.....838

Bluejacket Coal.....898

Bartlesville Sand.....956

AW Coal.....1,008

Mississippian.....1,056

CONSOLIDATED OIL WELL SERVICES INC.
 211 W. 14TH STREET, CHANUTE, KS 66720
 620-431-9210 OR 800-467-8676

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TICKET NUMBER 2337
 LOCATION Eureka
 FOREMAN Brad Butler

TREATMENT REPORT & FIELD TICKET

ORIGINAL

API# 15-205-25914-00-00

CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-19-04	4758	Badgley # 2-21	16	30s	17E	Wilson
CUSTOMER <u>Layne Energy</u>		Gus Jones		TRUCK #	DRIVER	TRUCK DRIVER
MAILING ADDRESS <u>P.O. Box 160</u>				446	Rick	KCO
CITY <u>Sycamore</u>	STATE <u>Ks.</u>	ZIP CODE			442	Steve
				436	Alon	CONFIDENTIAL

JOB TYPE Longstring HOLE SIZE 6 3/4" HOLE DEPTH 1163' CASING SIZE & WEIGHT 4 1/2" 10.5"
 CASING DEPTH 1153' DRILL PIPE PBTD 1145' OTHER _____
 SLURRY WEIGHT 13.2 lb. SLURRY VOL 41 Bbl WATER gal/sk _____ CEMENT LEFT in CASING 8'
 DISPLACEMENT 18 1/4 Bbls. DISPLACEMENT PSI 700 ~~1100~~ Landol Plug RATE 3 BPM - 2 BPM


REMARKS: Safety Meeting: Rig up to 4 1/2" casing, Break circulation with fresh water.
Pumped 10 Bbl Gel Flush, followed with 40 Bbl water. Pumped 10 Bbl Metasilicate PreFlush,
Pumped 10 Bbl Dye water. Mixed 135 sks Thick Set Cement w/ 10" PWS of KOL-SEAL at 13.2 lb PWS/GAL.
Shut down, wash out pump lines - Release Plug - Displace Plug with 18 1/4 Bbls. water
Final pumping at 700 PSI - Bumped plug to 1100 PSI. wait 2 minutes - Release Pressure -
Flat held - Close casing in with OPST
Good cement returns to surface with 10 Bbl slurry
Job complete - Tear down

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ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	710.00	710.00
5406	25	MILEAGE	2.35	58.75
1126 A	135 SKS.	Thick Set Cement	11.85	1599.75
1110 A	27 SKS	KOL-SEAL 10" PWS	15.95	425.25
1111 A	50 lb.	1sk Metasilicate Pre Flush	1.40 lb.	70.00
1118	2 SKS.	Gel - Flush Ahead	12.40	24.80
5407A	7.42 Ton	25 miles - Bulk Truck	.85	157.67
4404	1	4 1/2" Top Rubber Plug	35.00	35.00
5502 C	4 Hrs.	80 Bbl. VAC Truck	78.00	312.00
1123	3360 GAL.	City water	11.50 PWS	38.64
5605 A	4 Hrs.	Welder	70.00	280.00
			6.3%	SALES TAX
				ESTIMATED TOTAL

AUTHORIZATION  TITLE 194165 DATE 3850.05

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WICHITA, KS

API# 15-205-25914-00-00

MORNING COMPLETION REPORT

Report Called in by: John Ed

Report taken by:

KRD

LEASE NAME & #		AFE#	DATE	DAYS	CIBP	PBYD
BADGLEY 2-21			11/15/04	1	DEPTH	TYPE FLUID
PRESENT OPERATION:		Drill out from under surface			TYPE	WT
						VIS
DEEPEST CASING	LINERS OD TOP & SHOE DEPTH	REPAIR DOWN TIME HRS		CONTRACTOR	Mokat	
OD SHOE DEPTH	8 5/8" 24# J-55 -- Set 20'			RIG NO	1	
PACKER OR ANCHOR	FISHING TOOLS	OD	ID	TEST PERFS		
				SQUEEZED OR PLUG BACK PERFS		
				TO	TO	
				TO	TO	
				TO	TO	
				TO	TO	
HRS	BRIEF DESCRIPTION OF OPERATION					
	MIRU MCPHERSON DRILLING, DRILLED 11" HOLE, 20' DEEP, RIH W/ 1 JT 8 5/8" SURFACE CASING,					
	MIXED 8 SXS TYPE 1 CEMENT, DUMPED DN THE BACKSIDE, SDFN.					

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DAILY COST ANALYSIS

RIG	
SUPERVISION	200
RENTALS	
SERVICES	400
MISC	2280

DETAILS OF RENTALS, SERVICES, & MISC

MC DRILLING @ 6.50/R	
MC (CEMENT)	80
DIRTWORKS (LOC, RD, PIT)	400
SURFACE CASING	200
LAND/ LEGAL	2000

DAILY TOTALS 2880 PREVIOUS TCTD TCTD 2880