

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

CONFIDENTIAL

WELL COMPLETION FORM *Amended*
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: M. B. Natrass
 Phone: (913) 748-3987
 Contractor: Name: McPherson Drilling
 License: 5675
 Wellsite Geologist: _____
 Designate Type of Completion:
 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. _____

<u>5/6/2005</u>	<u>5/9/2005</u>	<u>6/3/2005</u>
Spud Date or	Date Reached TD	Completion Date or
Recompletion Date		Recompletion Date

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WICHITA, KS
SEP 23 2005

API No. 15 - 125-30733-00-00
 County: Montgomery
NW SW NW Sec. 16 Twp. 32 S. R. 16 East West
1700 feet from S N (circle one) Line of Section
330 feet from E W (circle one) Line of Section
 Footages Calculated from Nearest Outside Section Corner:
 (circle one) NE SE NW SW
 Lease Name: Casey Well #: 5-16
 Field Name: Brewster
 Producing Formation: Cherokee Coals
 Elevation: Ground: 764 Kelly Bushing: _____
 Total Depth: 1178 Plug Back Total Depth: 1137
 Amount of Surface Pipe Set and Cemented at 40 Feet
 Multiple Stage Cementing Collar Used? Yes No
 If yes, show depth set _____ Feet
 If Alternate II completion, cement circulated from 1145
 feet depth to Surface w/ 130 sx cmt.
Drilling Fluid Management Plan
 (Data must be collected from the Reserve Pit) *Alt II with 4-23-07*
 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.: _____

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: MB Natrass
 Title: agent Date: 9/21/2005
 Subscribed and sworn to before me this 21st day of September, 2005
 Notary Public: Mrs. Allen
 Date Commission Expires: 10/14/2008

KCC Office Use ONLY

Letter of Confidentiality Attached
 If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

MARGARET ALLEN
 Notary Public - State of Kansas
 My Appt. Expires 10/14/2008

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Side Two

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ORIGINAL

Operator Name: Layne Energy Operating, LLC

Lease Name: Casey

AUG 31 2005

Well #: 5-16

Sec. 16 Twp. 32 S. R. 16 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

<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	Sample
Name	Top	Datum
Pawnee Lime	503	261
Excello Shale	649	115
V Shale	699	65
Mineral Coal	736	28
Mississippian	1074	-310

CASING RECORD New 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"	23	40'	Class A	35	Type 1 Cement
Casing	6 3/4"	4.5"	10.5	1145'	Thick Set	130	

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
	See attached	RECEIVED KANSAS CORPORATION COMMISSION SEP 23 2005 CONSERVATION DIVISION WICHITA, KS	

TUBING RECORD	Size	Set At	Packer At	Liner Run	Yes	<input checked="" type="checkbox"/> No
	2 3/8"	1060.8'				
Date of First, Resumed Production, SWD or Enhr.	Producing Method					
7/1/2005	Flowing		<input checked="" type="checkbox"/> Pumping	Gas Lift	Other (Explain)	
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	
	0	7	60			

Disposition of Gas **METHOD OF COMPLETION** Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled

(If vented, Sumit ACO-18.) Other (Specify) _____

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GEOLOGIC REPORT

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CONSERVATION DIVISION
WICHITA, KS

LAYNE ENERGY

Casey 5-16

SW ¼, NW ¼, 1,700' FNL, 330' FWL

Section 16-T32S-R16E

MONTGOMERY COUNTY, KANSAS

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Drilled: May 6-9, 2005

Logged: May 11, 2005

A.P.I.# 15-125-30733

Ground Elevation: 764'

Depth Driller: 1,178'

Depth Logger: 1,155'

Surface Casing: 8 5/8" @ 40'

Production Casing: 4 1/2" @ 1,145'

Cemented Job: Consolidated

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

FORMATION TOPS (in feet below ground surface)

Quaternary Alluvium Surface

Lenapah Lime 294

Altamont Lime 337

Pawnee Lime 503

Anna Shale 528

Lexington Coal 535

First Oswego Lime 583

Little Osage Shale 620

Excello Shale 649

Mulky Coal 653

Iron Post Coal 674

"V" Shale 699

Croweburg Coal 700

Mineral Coal 736

Tebo Coal 793

Bluejacket Coal 870

AW Coal 988

Riverton Coal 1,045

Mississippian 1,074

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ORIGINAL

Operator Name:	Layne Energy Operating, LLC.		
Lease Name:	Casey 5-16		
	Sec. 16 Twp. 32S Rng. 16E, Montgomery County		
API:	15-125-30733		
Shots per Foot	Perforation Record	Acid, Fracture, Shot, Cement Squeeze Record	Depth
4	1044-1047, 988.5-989.5, 736.5-737.5	Riverton, Rowe, Mineral - 1,000gal 15% HCL + 205 bbls water + 1,900# 20/40 Sand	736.5-1047
4	699-701.5, 673.5-675, 648.5-653.5, 619.5-623.5	Croweberg, Ironpost, Mulkey, Summit - 2,200gal 15% HCL + 500 bbls water + 7,000# 20/40 Sand	619.5-701.5

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WICHITA, KS

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ORIGINAL

Side Two

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Operator Name: Layne Energy Operating, LLC Lease Name: Casey Well #: 5-16
Sec. 16 Twp. 32 S. R. 16 East West County: Montgomery

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 (Attach Additional Sheets)
Samples Sent to Geological Survey
Cores Taken
Electric Log Run (Submit Copy)
List All E. Logs Run:
Compensated Density Neutron
Dual Induction
Log Formation (Top), Depth and Datum Sample
Name Top Datum
Pawnee Lime 503 261
Excello Shale 649 115
V Shale 699 65
Mineral Coal 736 28
Mississippian 1074 -310

CASING RECORD New Used
Report all strings set-conductor, surface, intermediate, production, etc.
Table with columns: 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
Table with columns: Purpose, Depth Top Bottom, Type of Cement, #Sacks Used, Type and Percent Additives

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 Yes No
Date of First, Resumed Production, SWD or Enhr. SI- Waiting for Completion
Producing Method Flowing Pumping Gas Lift Other (Explain)
Estimated Production Per 24 Hours Oil Bbls. Gas Mcf Water Bbls. Gas-Oil Ratio Gravity

Disposition of Gas METHOD OF COMPLETION Production Interval
Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled
Other (Specify)

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MORNING COMPLETION REPORT

Report Called in by: JES

Report taken by: KRD

LEASE NAME & #		AFES	DATE	DAYS	CIBP	PBYD	
CASEY 5-18			5/06/05	1	DEPTH	TYPE FLUID	
PRESENT OPERATION:		DRILL OUT FROM UNDER SURFACE				WT	
						VIS	
DEEPEST CASING	LINERS OD TOP & SHOE DEPTH	REPAIR DOWN TIME HRS		CONTRACTOR MC			
OD SHOE DEPTH	8 5/8" 24# J-55 --- Set 40'	TEST PERFS		RIG NO MIKE H.			
PACKER OR ANCHOR	FISHING TOOLS OD ID	TO		SQUEEZED OR PLUG BACK PERFS			
		TO		TO			
		TO		TO			
		TO		TO			
		TO		TO			
HRS	BRIEF DESCRIPTION OF OPERATION						
	MIRU MCPHERSON DRILLING, DRILLED 11" HOLE, 40' DEEP, HIT WET SHALE BREAK AT 24'						
	RIH W/ 2 JTS 8 5/8 SURFACE CASING						
	MIRU CONSOLIDATED CIRCULATED HOLE, PUMPED 35 SKS CEMENTW/ 3% Calc, 1/2# FLOCELE,						
	DISPLACE WITH 2 BBL WATER, SD, CLOSE CASING IN, GOOD CEMENT RETURNS TO SURFACE, RIG DOWN.						

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DAILY COST ANALYSIS

RIG	
SUPERVISION	175
RENTALS	
SERVICES	1725
MISC	2400

DETAILS OF RENTALS, SERVICES, & MISC

MCPHERSON DRILLING @ 6.50/R	
MC (CEMENT)	
DIRTWORKS (LOC, RD, PIT)	400
SURFACE CASING	400
LAND/ LEGAL	2000
CONSOLIDATED	1325

DAILY TOTALS 4300 PREVIOUS TCTD TCTD 4300

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

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TICKET NUMBER 3902
 LOCATION Europe
 FOREMAN Brad Butler

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 TREATMENT REPORT & FIELD TICKET
 CEMENT

ORIGINAL

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
5-11-05	4758	Casey 5-16				Montgomery	
CUSTOMER		Gus Jones		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS				446	Scott		
CITY				441	Larry		
STATE				436	Jason		
ZIP CODE				452-T63	Jim		

JOB TYPE Logging HOLE SIZE 6 7/8" HOLE DEPTH 1148' CASING SIZE & WEIGHT 4 1/2" 10.5
 CASING DEPTH 1145' DRILL PIPE PBTD 1137' OTHER _____
 SLURRY WEIGHT 13.2 lb. SLURRY VOL 41 Bbl. WATER gal/sk 8.0 CEMENT LEFT in CASING 8'
 DISPLACEMENT 18 Bbls. DISPLACEMENT PSI 550 MAX PSI 1000 Loaded Plug RATE 4BPM-2BPM

REMARKS: Safety Meeting: Rig up to 4 1/2" casing, Break circulation with 50 Bbls water,
 Pumped 10 Bbl. Metasilicate Pre flush followed with 8 Bbls. Dye water. Mixed 130 sks. Thick Set cement
 with 10" P/SK of KOI-SEAL or 13.2 lb. P/GAL shutdown - washout pump lines - Release Plug
 Displace Plug with 18 Bbls water. Final pumping - 550 PSI. - Bumped Plug to 1000 PSI
 wait 2 minutes. Release Pressure - Float Held - close casing in with 0 PSI
 Good cement returns to surface with 8 Bbl slurry
 Job complete. Tear down

Thank you

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	765.00	765.00
5406	0	MILEAGE Truck in Location	2.50	N/C
1126 A	130 SKs.	Thick Set cement	13.00	1690.00
1110 A	26 SKs.	KOI-SEAL 10" P/SK	16.90	439.40
1111 A	50 lbs.	Metasilicate - Pre flush	1.55 lb.	77.50
5407 A	7.15 Ton	25 milts - Bulk Truck	.92	164.45
5502 C	3 His.	80 Bbl. VAC Truck	82.00	246.00
5501 C	4 His.	Transport	88.00	352.00
1123	6000 GAL.	City water	12.25	73.50
5605 A	4 His.	Welder	75.00	300.00
4311	1	4 1/2" Weld on Collar	48.00	48.00
4404	1	4 1/2" Top Rubber Plug	38.00	38.00
			5.3%	SALES TAX
				ESTIMATED TOTAL

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AUTHORIZATION _____ TITLE 197283 DATE 11/18/05