

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM

CONFIDENTIAL 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: Thorton Air
License: 33606
Wellsite Geologist: _____

KCC

OCT 13 2005

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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>6/29/2005</u>	<u>6/30/2005</u>	<u>8/3/2005</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 125-30752 - 00-00
County: Montgomery
NE SE SE Sec. 12 Twp. 31 S. R. 14 East West
980 feet from N (circle one) Line of Section
330 feet from W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Kirk Well #: 16-12
Field Name: Cherokee Basin Coal
Producing Formation: Cherokee Coals
Elevation: Ground: 954' Kelly Bushing: _____
Total Depth: 1488' Plug Back Total Depth: 1472'
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 1483'
feet depth to Surface w/ 150 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit) ALT II with
12-13-07
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.: OCT 14 2005
Quarter _____ Sec. _____ Twp. _____ S. R. _____
County: _____ Docket No.: _____

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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: MB Natrass
Title: Agent Date: 10/13/05
Subscribed and sworn to before me this 13th day of October
20 05
Notary Public: [Signature]
Date Commission Expires: 10/14/2005

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 _____

✓

X

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Slide Two

ORIGINAL

Operator Name: Layne Energy Operating, LLC Lease Name: Kirk Well #: 16-12
Sec. 12 Twp. 31 S. R. 14 [X] 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 [] Yes [X] No
Samples Sent to Geological Survey [] Yes [X] No
Cores Taken [] Yes [X] No
Electric Log Run [X] Yes [] No
List All E. Logs Run:
Compensated Density Neutron
Dual Induction
KCC
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[X] Log Formation (Top), Depth and Datum [] Sample
Name Top Datum
Pawnee Lime 893 GL 61
Excello Shale 1028 GL -74
V Shale 1088 GL -134
Mineral Coal 1134 GL -180
Mississippian 1385 GL -431

CASING RECORD [X] 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, # Sacs 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
See Attached
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TUBING RECORD
Size Set At Packer At Liner Run [] Yes [X] No
Date of First, Resumerd Production, SWD or Enh. 10/6/2005
Producing Method [] Flowing [X] Pumping [] Gas Lift [] Other (Explain)
Estimated Production Per 24 Hours
Oil Bbls. 0 Gas Mcf 30 Water Bbls. 106 Gas-Oil Ratio Gravity

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

Operator Name:	Layne Energy Operating, LLC.		
Lease Name:	Kirk 16-12		
	Sec. 12 Twp. 31S Rng. 14E, Montgomery County		
API:	15-125-30752		
Shots per Foot	Perforation Record	Acid, Fracture, Shot, Cement Squeeze Record	Depth
4	1376-1377, 1339-1341, 1234-1235, 1211-1214, 1185-1188	Riverton, Rowe, Bluejacket, Weir, Tebo - 1,800 15% HCL Acid, 604 bbls Water, 6,000 # 20/40 Sand	1185-1377
4	1134.5-1136, 1088-1089.5, 1067.5-1068.5, 1028-1033, 1009-1011.5, 890.5-891.5	Mineral, Croweberg, Bevier, Mulkey, Summit, Mulberry - 2,275 15% HCL Acid, 790 bbls Water, 8200 # 20/40 Sand	890.5-1136

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GEOLOGIC REPORT

LAYNE ENERGY

Kirk 16-12

SE ¼, SE ¼, 980' FSL, 330' FEL

Section 12-T31S-R14E

MONTGOMERY COUNTY, KANSAS

Drilled: June 29-30, 2005

Logged: July 1, 2005

A.P.I.# 15-125-30752

Ground Elevation: 954'

Depth Driller: 1,488'

Depth Logger: 1,486'

Surface Casing: 8 5/8" @ 20'

Production Casing: 4 1/2" @ 1,483'

Cemented Job: Consolidated

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

FORMATION	TOPS (in feet below ground surface)
Lansing Group	Surface (Stoner Limestone Member)
Lenapah Lime	709
Altamont Lime	752
Mulberry Coal	891
Pawnee Lime	893
Anna Shale	919
First Oswego Lime	979
Little Osage Shale	1,010
Excello Shale	1,028
Mulky Coal	1,032
Iron Post Coal	1,068
"V" Shale	1,088
Croweburg Coal	1,089
Mineral Coal	1,134
Tebo Coal	1,187
Weir Pitt Coal	1,211
Bluejacket Coal	1,234
Drywood Coal	1,254
AW Coal	1,339
Riverton Coal	1,377
Mississippian	1,385

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MORNING COMPLETION REPORT

Report Called In by: JES

Report taken by: KRD

LEASE NAME & #		AFE#	DATE	DAYS	CIBP DEPTH	PBTD TYPE FLUID
KIRK 16-12		G01017900100	4/24/05	1	TYPE	
PRESENT OPERATION:						WT
DRILL OUT FROM UNDER SURFACE						VIS
DEEPEST CASING OD SHOE DEPTH	LINERS OD TOP & SHOE DEPTH	REPAIR DOWN TIME HRB			CONTRACTOR	MOKAT
	8 5/8" 248 J-55 -- 3rd 20'	TEST PERFS			RIG NO	BILLY
PACKER OR ANCHOR	FISHING TOOLS	OD	ID	TO	SQUEEZED OR PLUG BACK PERFS	
				TO	TO	
				TO	TO	
				TO	TO	
				TO	TO	
HRB	BRIEF DESCRIPTION OF OPERATION					
	MIRU MOKAT DRILLING, DRILLED 11" HOLE, 20' DEEP, RIH W/ 1 JT 8 5/8" SURFACE CASING,					
	MIXED 4 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	
MOKAT DRILLING @ 6.50/R	
MOKAT (CEMENT)	80
DIRTWORKS (LOC, RD, PIT)	400
SURFACE CASING	200
LAND/ LEGAL	2000

DAILY TOTALS 2880 PREVIOUS TCTD TCTD 2880

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

TICKET NUMBER 5457
 LOCATION EUREKA
 FOREMAN KEVIN MCCOY

**TREATMENT REPORT & FIELD TICKET
 CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-1-05	4758	KIRK 16-12				MG
CUSTOMER <u>Layne Energy</u>		Gus Jones	TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS <u>P.O. Box 160</u>			463	ALAN		
CITY <u>Sycamore</u>			441	JUSTIN		
STATE <u>Ks</u>	ZIP CODE					

JOB TYPE Longstring HOLE SIZE 6 3/4 HOLE DEPTH 1488' CASING SIZE & WEIGHT 4 1/2 10.5# new
 CASING DEPTH 1483' DRILL PIPE _____ TUBING _____ OTHER PBTD 1472
 SLURRY WEIGHT 13.2# SLURRY VOL 47 BBL WATER gal/sk 8.0 CEMENT LEFT in CASING 11'
 DISPLACEMENT 23.4 BBL DISPLACEMENT PSI 1100 MIX PSI 1600 Bump Plug RATE _____

REMARKS: Safety Meeting: Rig up to 4 1/2 casing. Break circulation w/ 35 BBL fresh water. Pump 10 BBL Metasilicate Pre Flush, 15 BBL Dye water. Mixed 150 SKS Thick Set Cement w/ 10# Kol-Seal per/sk @ 13.2# per/gal yield 1.75. Wash out Pump & Lines. Shut down. Release Plug. Displace w/ 23.4 BBL Fresh water. Final Pumping Pressure 1100 PSI. Bump Plug to 1600 PSI. Wait 2 minutes. Release Pressure. Float Held. Good Cement Returns to Surface = 7 BBL Slurry. Job Complete. Rig down.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	765.00	765.00
5406	0	MILEAGE 2 nd well of 2	0	0
1126 A	150 SKS	THICK SET Cement	13.00	1950.00
1110 A	30. SKS	KOL-SEAL 10# per/sk	16.90	507.00
1111 A	50 #	Metasilicate Pre Flush	1.55#	77.50
5407A	8.25 Tons	25 miles BULK TRUCK	.92	189.75
5605 A	4 Hrs	Welder	75.00	300.00
4404	1	4 1/2 Top Rubber Plug	38.00	38.00
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			Sub TOTAL	3827.25
		Thank You	SALES TAX	136.34
		5.3%	ESTIMATED TOTAL	3963.59

AUTHORIZATION Called By John Ed TITLE _____ DATE _____
 # 199121