KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1

September 1999

Form Must Be Typed

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

Name: Layne Energy Operating, LLC Address: 1900 Shawnee Mission Parkway Control Perpor, See See See See See See See See See Se	Operator: License # 33365	API No. 15 - 125-31138 - 00 - 00 (AMENDED)
Address: 1900 Shawmee Mission Parkway City/State/Tip. Mission Woods, KS 66205 City/State/Tip. Mission Woods, KS 66205 City/State/Tip. Mission Woods, KS 66205 Contractor: Virtual Mission Property Contact Partor. Virtual Mission Woods, KS 66205 Contractor: Virtual Mission Woods, William Woods, Virtual Mission W	Name: Layne Energy Operating, LLC	
City/State/Zip. Mission Woods, KS 66205 Seet from (a) N (arcte ana) Line of Section Sectio	•	
Furthaser Coperator Contact Persor 171mothy H Wright Phone (1913) 748-3960 748-3960 Footages Calculated from Nearost Clusted Section Corner (circle ane) Mis S N Will # 13-19 Footages Calculated from Nearost Clusted Section Corner (circle ane) Mis S N Will # 13-19 Footages Calculated from Nearost Clusted Section Corner (circle ane) Mis S N Will # 13-19 Footages Calculated from Nearost Clusted Section Corner (circle ane) Mis S N Will # 13-19 Footages Calculated from Nearost Clusted Seatin Coal Area Producing Formation Cherokee Basin Coal Area Producing Formation Cherokee Coals Producing Formation Cherokee Cherok		
Operator Contact Person	Purchaser	659 feet from E / (M) (circle and Line of Section
Phone (913) 74 8 - 3 9 6 0 Contractor: Name MORAT	Operator Contact Person Timothy H. Wright	Footages Calculated from Nearest Outside Section Corner:
Contractor: Name: MOKAT	Phone: (913) 748-3960	
Field Name Fie		
Wellsite Geologist: Designate Type of Completion: New Well Re-Entry Workover Oil SWD SIOW Temp. Abd. Gas ENHR SIGW. If Workover/Re-entry: Oil Well Info as follows: Objerator: Designate Type Oil Core, WSW, Expl., Cathodic, etc) If Workover/Re-entry: Old Well Info as follows: Objerator: Deparator: Designat Comp. Date: Designat Total Depth: 1105 Plug Back Total Depth: 1097 Amount of Surface Pipe Set and Cemented at 20' Feet Multiple Stage Cementing Collar Used? Yes [Z] No If Workover/Re-entry: Old Well Info as follows: Objerator: Deparator: Designat Comp. Date: Despening Re-perf. Conv. to Entr./SWD Plug Back Committing Bluid Management Plan (Data must be collected from the Reserve Pil) Chioride content. M/A ppm Fluid volume bits Dewalering method used M/A - Air Drillled Location of fluid disposal if hauled offsite: Operator Name: Lease Name: License No: Designation Date INSTRUCTIONS: An original and two copies of this form shall be filled with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichhila, 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 confidencial for a period of 12 months if requisited in writing and submitted with the form 4LC EMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily sbandoned wells. Wireline Log Received Gesologist Report Received Uic Distribution NOTATY PUBLIC - State Of Kansas KCC M/ICCL		
Designate Type of Completion: Now WellRe-EntryWorkover		
Total Depth: 1105 Plug Back Total Depth: 1097 Amount of Surface Plupe Set and Cemented at 20' Feet Multiple Stage Cementing Collar Used? Seet and Cemented at 20' Feet Multiple Stage Cementing Collar Used? Seet and Cemented at 20' Feet Multiple Stage Cementing Collar Used? Seet and Cemented at 20' Feet Multiple Stage Cementing Collar Used? Seet and Cemented at 20' Feet Multiple Stage Cementing Collar Used? Seet and Cemented at 20' Feet Multiple Stage Cementing Collar Used? Seet and Cemented at 20' Feet Multiple Stage Cementing Collar Used? Seet and Cemented at 20' Feet Multiple Stage Cementing Collar Used? Seet and Cemented at 20' Feet Multiple Stage Cementing Collar Used? Seet and Cemented at 20' Feet Multiple Stage Cementing Collar Used? Seet and Cemented at 20' Feet Multiple Stage Cementing Collar Used? Seet and Cemented at 20' Feet Multiple Stage Cementing Collar Used? Seet and Cemented at 20' Feet Multiple Stage Cementing Collar Used? Seet and Cemented at 20' Feet Multiple Stage Cementing Collar Used? Seet and Cemented at 20' Feet Multiple Stage Cementing Collar Used? Seet and Cemented at 20' Feet Multiple Stage Cementing Collar Used? Seet and Cemented at 20' Feet Multiple Stage Cementing Collar Used? Seet and Cemented at 20' Feet Multiple Stage Cementing Collar Used? Seet and Cemented at 20' Feet Multiple Stage Cementing Collar Used? Seet and Cemented at 20' Feet Multiple Stage Cementing Collar Used? Seet and Cemented at 20' Feet Multiple Stage Cementing Collar Used? Seet and Cemented at 20' Feet Multiple Stage Cementing Collar Used? Seet and Cemented at 20' Feet Multiple Stage Cementing Cells of the Surface Place Stage Cementing Cells and Surface Place Stage Cementing Cells and Cemented at 20' Feet Multiple Stage Cementing Cells and Cemented at 20' Feet Multiple Stage Cementing Cells and Cemented Total Surface Place Stage Cementing Cells and Cemented Total Surface Place Stage Cementing Cells and Cemented Total Surface Place Stage Cementing Cells and Cemented To		
Amount of Surface Pipe Set and Cemented at 20' Feet Gas	- Control of the Cont	
Multiple Stage Cementing Collar Used?	·	
By Other (Core, WSW, Expl., Cathodic, etc) If yes, show depth set	,~~, ₄	
If Norkover/Re-entry: Old Well Info as follows: Operator: Well Name: Driginal Comp. Date: Original Total Depth: Depending Re-perl. Corn. to Enhr/SWD Plug Back Plug Back Plug Back Total Depth Oual Completion Docket No. Other (SWD or Enhr.?) Doesder No. Other (SWD or Enhr.?) Date Reached TD Date Reached TD Date Reached TD Completion Date INSTRUCTIONS: An original and two copies of this form shall be filled 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 pend 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 writenile logs and geologist well report shall be attached with this form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all writenile logs and geologist well report shall be attached with this form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all writenile logs and geologist well report shall be attached with this form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all writenile logs and geologist well peror that be attached with this form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all writenile logs and geologist well peror that 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. Wireline Log Received Geologist Report Received	•	
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Well Name:	_	fact don't so Surface 110
Driginal Comp. Date:Original Total Depth:	·	AM- Dg-7/22/04
Deepening Re-perf. Conv. to Enhr/SWD Plug Back Plug Back Total Depth Dowatering method used N/A - Air Drilled Commingled Docket No. Dual Completion Docket No. Other (SWD or Enhr.?) Docket No. Other (SWD or Enhr.?) Docket No. Date Reached TD Completion Date or Recompletion Date		Drilling Fluid Management Plan
Plug Back Plug Back Total Depth Commingled Docket No. Dual Completion Docket No. Other (SWD or Enhr.?) Docket No. Other (SWD or Enhr.?) Docket No. Date Reached TD Completion Date or Recompletion Date or Recompletio		
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Dual Completion Docket No. Other (SWD or Enhr.?) Docket No. B/4/2006 B/4/2006 Synd Date or Recompletion Date Date Reached TD Recompletion Date Notation Date or Recompletion Date Notation Date or Recompletion Date Notation Date or Recompletion Date Notation Date Docket No. License No. License No. License No. License No. License No. License No. County: Docket No. Notation Date Notation Date or Recompletion Date or Recompletion Date or Recompletion Date or Recompletion Date Notation Date Lease Name: License No. License No. Location Of Ituid disposal if hauled offsite: Docket No. Docke		Dewatering method used NA - All Dillied
Operator Name: Lease Name: License No.:	_	Location of fluid disposal if hauled offsite:
B/4/2006		Operator Name:
Date Reached TD Completion Date or Recompletion Date County: Docket No.: Sec. Twp. S. R. East West County: Docket No.:		Lease Name: License No.:
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KCC Office Use ONLY Signature:	Kansas 67202, within 120 days of the spud date, recompletion, workover Information of side two of this form will be held confidential for a period of 12 107 for confidentiality in excess of 12 months). One copy of all wireline logs a	r or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. 2 months if requested in writing and submitted with the form (see rule 82-3-and geologist well report shall be attached with this form. ALL CEMENTING
KCC Office Use ONLY Letter of Confidentiality Attached		e the oil and gas industry have been fully complied with and the statements
Letter of Confidentiality Attached Subscribed and sworn to before me this Date:	VIR 1	
Subscribed and sworn to before me this day of OVINGO If Denied, Yes Oate: Wireline Log Received Geologist Report Received UIC Distribution JUN 3 0 20 OVINGO OVING	Signature: NR With the	KCC Office Use ONLY
Subscribed and sworn to before me this day of	ritle: Agent Date: 11/30/06	Letter of Confidentiality Attached
Wireline Log Received Geologist Report Received UIC Distribution See Commission Expires: 12 28 09 NOTARY PUBLIC - State Of Kansas Wireline Log Received Geologist Report Received UIC Distribution Wireline Log Received TRECEIVE		· 1
Geologist Report Received Commission Expires: 12 28 09 00 00 00 00 00 00	outscribed and sworn to before me this day of two types	
Date Commission Expires: 12 28 0 NOTARY PUBLIC - State Of Kansas KCC WICHI	occidental Company	Geologist Report Received RECEIVED
	12/20/00	JUN 3 0 2009
	NOTARY PUBLIC State Of I BROOKE C. MAXFIE	

Operator Name: Layne Energy Operating, LLC

Sec. 19 Twp. 32 S. R. 17 Fast West Well #: 13-19 Lease Name: Heins 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. Sample **✓** No ✓ Log Formation (Top), Depth and Datum Yes **Drill Stem Tests Taken** (Attach Additional Sheets) Datum Name Top ☐ Yes V No Samples Sent to Geological Survey 453 GL 317 Pawnee Lime Yes ✓ No Cores Taken ✓ Yes Electric Log Run No Excello Shale 591 GL 179 (Submit Copy) 645 GL 125 V Shale List All E. Logs Run: 688 GL 82 Mineral Coal Compensated Density Neutron 1008 GL -238 **Dual Induction** Mississippian CASING RECORD ✓ New Used Report all strings set-conductor, surface, intermediate, production, etc. Size Hole Size Casing Weight Setting Type of Cement # Sacjs Type and Percent Purpose of String Set (In O.D.) Lbs. / Ft Depth Surface 11 8.65 24 20' Class A 4 Type 1 cement 1097' Thick Set 110 6.75 4.5 10.5 Casing ADDITIONAL CEMENTING / SQUEEZE RECORD Purpose: Depth Type and Percent Additives Type of Cement #Sacks Used Top Bottom Perforate Protect Casing Plug Back TD Plug Off Zone PERFORATION RECORD - Bridge Plugs Set/Type Acid, Fracture, Shot, Cement Squeeze Record Shots Per Foot Depth Specify Footage of Each Interval Perforated (Amount and Kind of Material Used) See Attached **TUBING RECORD** Liner Run Set At Packer At Yes **√** No 1204 Date of First, Resumerd Production, SWD or Enhr. **Producing Method** Flowing Pumping Gas Lift Other (Explain) 11/22/06 **Estimated Production** Oil Bbis. Gas-Oil Patio ,Gas Water Gravity Per 24 Hours \5 / 0 0 Disposition of Gas METHOD OF COMPLETION Production Interval Vented A Sold Used on Lease Open Hole Dually Comp. ✓ Commingled __ (If vented, Submit ACO-18.) Other (Specify)

Operator Name: Layne Energy Operating, LLC.

Lease Name: Heins 13-19

Sec. 19 Twp. 32S Rng. 17E, Montgomery County

API: 15-125-31138 - 00 - 00

 Shots per Foot
 Perforation Record
 Acid, Fracture, Shot, Cement Squeeze Record
 Depth

 4
 939-940.5, 772-773.5
 Rowe, Weir - 2400# 20/40 sand, 250 bbis wtr, 300 gal
 772-940.5

 15% HCl acid
 Mineral, Croweburg, Bevier - 6800# 20/40 sand, 700
 620-690 bbls wtr, 700 gal 15% HCl acid

 4
 590-595, 563.5-567, 489-490.5
 Mulky, Summit, Lexington - 7900# 20/40 sand, 565
 489-595

bbls wtr, 1000 gal 15% HCl acid

.

RECEIVED
JUN 3 0 2009
KCC WICHITA