KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 32254
Name: Le Norman Energy Corporation
Address: P.O. Box 1024
City/State/Zip: Duncan, OK 73534
Purchaser: Duke Energy
Operator Contact Person: Dale Lovely
Phone: (580) 252-2085
Contractor: Name: Cheyenne Drilling, Inc.
License: 5382
Wellsite Geologist: Ed Grieves

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.

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
04/09/02	04/26/02	05/21/02

API No. 15 - 175-21872-00-00
County: Seward
NE NE SW SW Sec. 15 Twp. 34 S. R. 31 ☐ East ☑ West
1175' feet from (S) / N (circle one) Line of Section
1175' feet from E / (W) (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW (SW)
Lease Name: BLACK Well #: 2-15
Field Name: Arkalon
Producing Formation: Morrow
Elevation: Ground: 2482' Kelly Bushing: 2496'
Total Depth: 6390' Plug Back Total Depth: 5695'
Amount of Surface Pipe Set and Cemented at 1368' Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set ____ Feet
If Alternate II completion, cement circulated from ____
feet depth to ____ w/ ____ sx cmt.

Drilling Fluid Management Plan ALT I SH 8.21.02
(Data must be collected from the Reserve Pit)
Chloride content ____ ppm Fluid volume 360 bbls
Dewatering method used Evaporation
Location of fluid disposal if hauled offsite:
Operator Name: Nichols Fluid Service
Lease Name: Morlen 1-16 License No.: 31983
Quarter ____ Sec. 16 Twp. 34 S. R. 32 East West
County: Seward Docket No.: D-25-529

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: Dale D Lovely
Title: Production Manager Date: 08/02/02
Subscribed and sworn to before me this 2 day of August, 2002
Notary Public: Jayne A. Williams #99001421
Date Commission Expires: Jan. 25, 2003

JAYNE A. WILLIAMS NOTARY PUBLIC IN AND FOR STATE OF OKLAHOMA CARTER COUNTY

KCC Office Use ONLY
✓ NO Letter of Confidentiality Attached
If Denied, Yes ☐ Date:
✓ Wireline Log Received
✓ Geologist Report Received
____ UIC Distribution

Side Two

Operator Name: Le Norman Energy Corporation Lease Name: BLACK Well #: 2-15

Sec. 15 Twp. 34 S. R. 31 East ✔ West County: Seward

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)*	☑ Yes	No
Samples Sent to Geological Survey	☑ Yes	No
Cores Taken	Yes	✔ No
Electric Log Run *(Submit Copy)*	✔ Yes	No

List All E. Logs Run:

✔ Log	Formation (Top), Depth and Datum	Sample
Name	Top	Datum
Council Grove	2772'	KB
Totonto	4161'	KB
Marmaton	5006'	KB
Cherokee	5330'	KB
Morrow	5548'	KB
Chester	5682'	KB

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 Csg	12 1/4"	8 5/8"	24	1368'	Premian	925	1/8# Flocele 2% Cacl
Production	7 7/8 '	4 1/2"	11.6	5941'	Permian	300	5% HALAO-322 1/8# Flocele

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
8	5700'-08' & 5714'-21'	5500 gal 15% HCL Acid	
4	5677'-82' & 5660'-67'	1000 gal 7 1/2% HCL + Frac	
		w/ 20,000# Sand + Co2 Foam	
	Bridge Plug at 5695'		

TUBING RECORD Size	Set At	Packer At	Liner Run
2 3/8"	5574'	none	Yes ✔ No

Date of First, Resumed Production, SWD or Enhr.	Producing Method
05/31/02	✔ Flowing Pumping Gas Lift Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	1	870	0		

Disposition of Gas METHOD OF COMPLETION Production Interval

☐ Vented ✔ Sold ☐ Used on Lease *(If vented, Sumit ACO-18.)*

Open Hole ✔ Perf. Dually Comp. ☐ Commingled

☐ Other *(Specify)*