

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

**ORIGINAL**  
*Corrected*  
**ORIGINAL**

Form AGO-1  
June 2009  
Form must be Typed  
Form must be Signed  
Check must be Filled

OPERATOR: License # 32119  
Name: Northern Natural Gas CO.  
Address 1: 1111 South 103rd Street  
Address 2: \_\_\_\_\_  
City: Oriahna State: NE Zip: 68124  
Contact Person: Michael Loeffler  
Phone: (402) 988-7103  
CONTRACTOR: License # 34541  
Name: Nirnescoah Drilling, LLC  
Website Geologist: Frank Mize 6385  
Purchaser: N/A

Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     WSW     SWD     SOW  
 Gas     D&A     ENHR     SIGW  
 Oil/G     GSW     Temp. Abd.  
 Oil (Coal Bed Methane)  
 Cathodic     Other (Corr. Expt., etc.): Gas Storage Observation Well

If Workover/Re-entry: Old Well Info as follows:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening     Re-ped.     Conv. to ENHR     Conv. to SWD  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_  
 Cemented    Permit #: \_\_\_\_\_  
 Drual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_

<u>8/11/12</u>	<u>8/20/13</u>	<u>Well has not been completed</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 16 - 16-151-22395 -00-00  
Spot Description: \_\_\_\_\_  
NW SW NW SW Sec. 27 Twp. 28 S. R. 11  East  West  
1,917 Feet from  North /  South Line of Section  
163 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Pratt  
Lease Name: Northern Natural Gas Co. Well #: OB 27-41  
Field Name: Haynesville East  
Producing Formation: N/A-Observation Well not completed  
Elevation: Ground: 1808' Kelly Bushing: 1821'  
Total Depth: 4838' Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 1880' Feet  
Multiple Stages Cementing Collar Used?  Yes  No  
If yes, show depth est: \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from: \_\_\_\_\_  
feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sq cm.

Drilling Fluid Management Plan  
(Data must be collected from the Reserve Pit)  
Chloride content: 19000 ppm Fluid volume: 1795 bbls  
Desanding method used: Chemical Desanding (Solids sent to Guard Disposal)  
Location of fluid disposal if hauled offsite:  
Operator Name: Guard Disposal, Enid, Oklahoma  
Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2076, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Parts 62-3-150, 62-3-106 and 62-3-107 apply. Information of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 62-3-107 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.

**AFFIDAVIT**

I am the affiant and I hereby certify that 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: Engineer Date: 3/22/13

**KCC Office Use ONLY**

Letter of Confidentiality Received  
Date: \_\_\_\_\_  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 LIC Distribution  
ALT     Approved by: DJG Date: 3/28/13

RECEIVED  
KANSAS CORPORATION COMMISSION  
SEP 06 2013  
CONSERVATION DIVISION  
WICHITA, KS

RECEIVED  
MAR 26 2013  
KCC WICHITA



State Two

Operator Name: Northern Natural Gas CO. Lease Name: Northern Natural Gas Co. Well #: OB 27-41  
 Sec. 27 Twp. 26 S. R. 11  East  West County: Pott

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 complete 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

Electric Log Submitted Electronically  Yes  No  
 (If no, Submit Copy)

Log Formation (Top), Depth and Datum			<input type="checkbox"/> Sample
Name	Top	Datum	
Heebner	3491'	-1670'	
Base Kansas City	4030'	-2209'	
Mississippi	4117'	-2289'	
Kinderhook Shale	4204'	-2883'	
Viola Lime	4333'	-2512'	
Simpson Sand	4449'	-2628'	
Arbuckle	4524'	-2703'	

List All E. Logs Run:  
 Density/Neutron, Array Induction, Microlog, Comp.  
 Sonic, Spectral GR, 13 3/8" bond, log 7" bond log

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings seal-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (in O.D.)	Weight Lbs./FL	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Conductor	17"	13 3/8"	48	190	Class A	240	2% Oct, 1/8 Oct/Fine
Surface	12 1/4"	9 5/8"	38	1880'	Class A	530	2% Oct, 1/8 Oct/Fine
Production	7 7/8"	6 1/2"	15.6	4527	Class A	260/150	A Con /AA2

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

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
None	Waiting on Completion		

TUBING RECORD: Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, BWD or ECHR: \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other (Specify) \_\_\_\_\_

Estimated Production Per 24 Hours	Oil	Eds.	Gas	Mcf	Water	Eds.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Ventured <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit AOD-18)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Part. <input type="checkbox"/> Dualy Comp. <input type="checkbox"/> Commingled <input checked="" type="checkbox"/> Other (Specify) <u>Not Perforated or Completed</u>	PRODUCTION INTERVAL: <u>N/A</u>
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Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

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 MAR 26 2013  
 KCC WICHITA