

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

- Open Flow
 Deliverability

Test Date:

API No. 15
15-023-21179-00-00

Company Noble Energy Inc		Lease Rogers		Well Number 44-31	
County Cheyenne	Location NE-SW-SE-SE	Section 31	TWP 5S	RNG (E/W) 39W	Acres Attributed
Field Niobrara		Reservoir Niobrara		Gas Gathering Connection Kinder Morgan	
Completion Date 5/16/2011		Plug Back Total Depth 1493'		Packer Set at	
Casing Size 7", 4-1/2"	Weight 20#, 11.6#	Internal Diameter 9-7/8", 6-1/4"	Set at 367', 1538'	Perforations 1332'	To 1358'
Tubing Size	Weight	Internal Diameter	Set at	Perforations	To

Type Completion (Describe) Single (gas)	Type Fluid Production Saltwater	Pump Unit or Traveling Plunger? No	Yes / No
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Producing Thru (Annulus / Tubing) Annulus	% Carbon Dioxide	% Nitrogen	Gas Gravity - G _g
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Vertical Depth(H)	Pressure Taps	(Meter Run) (Prover) Size
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Pressure Buildup: Shut in	5/21	20	11	at	11:00	(AM) (PM)	Taken	20	at	(AM) (PM)
Well on Line: Started	6/3	20	11	at	12:50	(AM) (PM)	Taken	20	at	(AM) (PM)

OBSERVED SURFACE DATA

Duration of Shut-in 314 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (P _m)	Pressure Differential in Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _i) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						222					
Flow											

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _o) (F _p) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F _g	Flowing Temperature Factor F _{tt}	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 0.207
(P_d)² = _____

(P_c)² = _____ ; (P_w)² = _____ ; P_d = _____ % ; (P_c - 14.4) + 14.4 = _____ ;

(P _c) ² - (P _w) ² or (P _d) ² - (P _w) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _w ² 2. P _d ² - P _w ² divided by: P _c ² - P _w ²	LOG of formula 1, or 2 and divide by: $\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2}$	Backpressure Curve Slope = "n" ----- Assigned Standard Slope	n x LOG []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)

Open Flow Mcfd @ 14.65 psia Deliverability Mcfd @ 14.65 psia

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the 28 day of November, 20 11.

Witness (if any)

For Commission

Cheyl Johnson

For Company
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Checked by _____

KCC WICHITA

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc and that the foregoing pressure information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon available production summaries and lease records of equipment installation and/or upon type of completion or upon use being made of the gas well herein named.

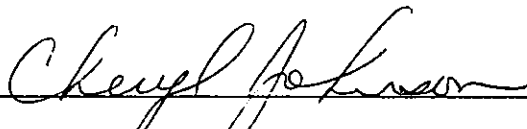
I hereby request a one-year exemption from open flow testing for the Rogers 44-31 gas well on the grounds that said well:

(Check one)

- is a coalbed methane producer
- is cycled on plunger lift due to water
- is a source of natural gas for injection into an oil reservoir undergoing ER
- is on vacuum at the present time; KCC approval Docket No. _____
- is not capable of producing at a daily rate in excess of 250 mcf/D

I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.

Date: 11/28/2011

Signature: 
Title: Regulatory Analyst II

Instructions: If a gas well meets one of the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to claim exempt status for the gas well.

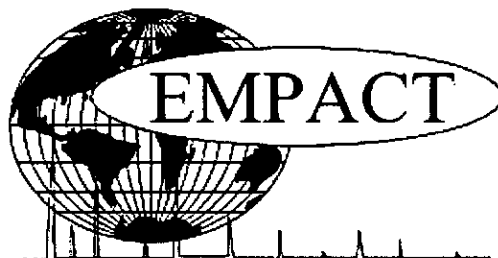
At some point during the current calendar year, wellhead shut-in pressure shall have been measured after a minimum of 24 hours shut-in/buildup time and shall be reported on the front side of this form under **OBSERVED SURFACE DATA**. Shut-in pressure shall thereafter be reported yearly in the same manner for so long as the gas well continues to meet the eligibility criterion or until the claim of eligibility for exemption IS denied.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than December 31 of the year for which it's intended to acquire exempt status for the subject well. The signed and dated on the front side as though it was a verified report of annual test results.

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NATURAL GAS ANALYSIS

PROJECT NO. :	201106109	ANALYSIS NO. :	12
COMPANY NAME :	NOBLE ENERGY	ANALYSIS DATE :	JUNE 26, 2011
ACCOUNT NO. :	YUMA	SAMPLE DATE :	JUNE 16, 2011
PRODUCER :		TO :	
LEASE NO. :	E1502321179	EFFECTIVE DATE :	JULY 1, 2011
NAME/DESCRIP. :	ROGERS 44-31		

*****FIELD DATA*****

SAMPLED BY :	M. MCCALL	CYLINDER NO. :	755
SAMPLE PRES. :	80	AMBIENT TEMP. :	
SAMPLE TEMP. :	95	GRAVITY :	
SAMPLE TYPE :	SPOT	VAPOR PRES. :	
FIELD COMMENTS :	NO PROBE		
LAB COMMENTS :			

<u>COMPONENTS</u>	<u>NORM. MOLE%</u>	<u>GPM @ 14.65</u>	<u>GPM @ 14.73</u>
HELIUM	0.12	-	-
HYDROGEN	0.00	-	-
OXYGEN/ARGON	0.04	-	-
NITROGEN	4.91	-	-
CO2	0.97	-	-
METHANE	91.84	-	-
ETHANE	1.50	0.399	0.401
PROPANE	0.43	0.118	0.118
ISOBUTANE	0.07	0.023	0.023
N-BUTANE	0.08	0.025	0.025
ISOPENTANE	0.02	0.007	0.007
N-PENTANE	0.01	0.004	0.004
HEXANES+	0.01	0.004	0.004
TOTAL	100.00	0.580	0.582
BTU @ 60 DEG F		14.65	14.73
NET DRY REAL =		874.2	879.0
NET WET REAL =		858.9	863.7
GROSS DRY REAL =		970.4	975.7
GROSS WET REAL =		953.4	958.7

RELATIVE DENSITY REAL (AIR=1 @ 14.696 PSIA 60F) : 0.5986

*NOTE: REFERENCE GPA 2261(ASTM D1945), 2145, & 2172 CURRENT PUBLICATIONS
THIS DATA HAS BEEN ACQUIRED THROUGH APPLICATION OF CURRENT STATE-OF-THE-ART ANALYTICAL TECHNIQUES.
THE USE OF THIS INFORMATION IS THE RESPONSIBILITY OF THE USER. EMPACT ANALYTICAL SYSTEMS, ASSUMES NO
RESPONSIBILITY FOR ACCURACY OF THE REPORTED INFORMATION NOR ANY CONSEQUENCES OF ITS APPLICATION.*

EMPACT Analytical Systems, Inc.
365 S. Main St. Brighton, CO 80601 303-637-0150

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