

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
15-023-20885-00-00

Company Noble Energy, Inc.			Lease Raile			Well Number 41-6					
County Cheyenne		Location NE-NE		Section 6		TWP 4S		RNG (E/W) 41W		Acres Attributed	
Field Cherry Creek Niobrara gas area			Reservoir Niobrara			Gas Gathering Connection Kinder Morgan via Lampe Compressor					
Completion Date 2/13/2008				Plug Back Total Depth 1558'				Packer Set at n/a			
Casing Size 7", 4-1/2"		Weight 17#, 10.5#		Internal Diameter 9-7/8", 6-1/4"		Set at 237, 1601'		Perforations 1448'		To 1487'	
Tubing Size 2-3/8"		Weight 4.7#		Internal Diameter 1.995"		Set at 1,512'		Perforations		To	
Type Completion (Describe) Single (Gas)				Type Fluid Production Saltwater				Pump Unit or Traveling Plunger? Yes / No No - <u>Flowing</u>			
Producing Thru (Annulus / Tubing) Tubing				% Carbon Dioxide				% Nitrogen		Gas Gravity - G _g	
Vertical Depth(H)				Pressure Taps				(Meter Run) (Prover) Size			
Pressure Buildup: Shut in <u>2/25/</u> 20 <u>08</u> at _____ (AM) (PM) Taken _____ 20 ____ at _____ (AM) (PM)											
Well on Line: Started <u>3/17/</u> 20 <u>08</u> at <u>12:15</u> (AM) (<input checked="" type="checkbox"/> PM) Taken _____ 20 ____ at _____ (AM) (PM)											

OBSERVED SURFACE DATA

Duration of Shut-in _____ Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (Pm)	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						269					
Flow											

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _b) (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 _t	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = _____ : (P_w)² = _____ : P_d = _____ % (P_c - 14.4) + 14.4 = _____ : (P_a)² = 0.207
(P_d)² = _____

(P _c) ² - (P _a) ² or (P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _a ² 2. P _c ² - P _d ² divided by: P _c ² - P _w ²	LOG of formula 1. or 2. and divide by: $\left[\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2} \right]$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG $\left[\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2} \right]$	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 18th day of February, 2009.

RECEIVED
KANSAS CORPORATION COMMISSION

Noble Energy, Inc.
For Company

Jennifer Burnett
Checked by

Witness (if any)

FEB 19 2009

For Commission

CONSERVATION DIVISION
WICHITA, KS

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 Raile 41-6 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: 2/18/09

Signature: Jennifer Barnett
Title: Regulatory Analyst

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 form must be signed and dated on the front side as though it was a verified report of annual test results.