

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

RECEIVED
SEP 02 2003
KCC WICHITA

Type Test:

- Open Flow
 Deliverability

Test Date:
07/07/03

API No. 15
023-20502-00-00

Company NOBLE ENERGY, INC.		Lease ZWEYGARDT		Well Number 33-32	
County CHEYENNE	Location	Section 32	TWP 3S	RNG (E/W) 41W	Acres Attributed 160
Field CHERRY CREEK		Reservoir NIOBRARA		Gas Gathering Connection BITTER CREEK PIPELINE	
Completion Date 6/16/03		Plug Back Total Depth 1518		Packer Set at	
Casing Size 4 1/2	Weight 10.5	Internal Diameter 4.052	Set at 1565	Perforations 1387	To 1425
Tubing Size	Weight	Internal Diameter	Set at	Perforations	To
Type Completion (Describe) SINGLE (GAS)		Type Fluid Production NONE		Pump Unit or Traveling Plunger? Yes / No NO	
Producing Thru (Annulus / Tubing) CASING		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 1425		Pressure Taps		Gas Gravity - G _g 0.6	
Pressure Buildup: Shut in _____ 20 _____ at _____ (AM) (PM) Taken 6/27 _____ 20 03 at _____ (AM) (PM)		Well on Line: Started 7/07 _____ 20 03 at 10:20 (AM) (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 (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						265	278	NA	NA		
Flow	3/8"	144	83	60		131	144	NA	NA	24	0

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_a)² = 0.207
(P_d)² = _____

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

(P _a) ² - (P _b) 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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2}$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)

Open Flow Mcfd @ 14.65 psia Deliverability **121** 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 25TH day of AUGUST, 20 03.

Witness (if any)

For Commission

Patricia Jarecki

For Company

Checked by

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 ZWEYGARDT 33-32 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: 08/25/03

Signature: 

Title: REGULATORY SPECIALIST III

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.

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Type Completion (Describe) SINGLE (GAS)	Type Fluid Production NONE	Pump Unit or Traveling Plunger? NO	Yes / No
Producing Thru (Annulus / Tubing) CASING	% Carbon Dioxide	% Nitrogen	Gas Gravity - G _g 0.6
Vertical Depth(H) 1425	Pressure Taps	(Meter Run) (Prover) Size 2"	

Pressure Buildup: Shut in _____ 20 ____ at _____ (AM) (PM) Taken 6/27 20 03 at _____ (AM) (PM)
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(P_s)² = 0.207

(P_d)² = _____

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

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

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Witness (if any)

Patricia Jaroske
For Company

For Commission

Checked by

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KCC WICHITA

KATHLEEN SEBELIUS, GOVERNOR

BRIAN J. MOLINE, CHAIR

JOHN WINE, COMMISSIONER

ROBERT E. KREHBIEL, COMMISSIONER

August 19, 2003

Patricia Jancke
Noble Energy, Inc.
12600 Northborough Suite 250
Houston, TX. 77067

**RE: Filing For Annual Open Flow Testing
Exemption To Be Awarded To Zwegardt #33-32**

Dear Ms. Jancke:

I'm returning the enclosed Form G-2 exemption request pertaining to the Zwegardt #33-32 gas well in Cheyenne County, Kansas because it lacks the needed back side of the form whereby the operator indicates to the KCC staff that he/she is claiming the testing exemption and upon which set of available qualifying grounds he/she is making that claim.

The entire current G-2 form is available out on the Internet at the KCC's website. The address for the website is www.kcc.state.ks.us and then click on the link for Oil and Gas Forms.

Please resubmit the request for exemption of the Zwegardt gas well from open flow testing with both sides (front and back) of the G-2 form present and completely filled out.

Be sure to list under the phrase "**Type Fluid Production**" displayed on the front side about a third of the way down from the very top and nearly centered exactly between the middle of the righthand and lefthand margins some kind of entry, even if it's only "**NONE**".

Thank you for your assistance and cooperation in resolving this deficiency.

Sincerely,



Jim Hemmen
Research Analyst