KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:		(See Ins	structions on Revers	e Side)			
Open Flow Deliverability		Test Date:			PI No. 15 5-023-21085 - 0	0-00	
Company Noble Energy Inc			Lease Zweygardt		<u> </u>	···	Well Number
County Loca Cheyenne NE-S	ition E-NW-NW	Section 32	TWP 3S	RNG (41W	E/W)	,	Acres Attributed
Field Cherry Creek		Reservoir Niobrara			athering Conne nern Star/Kinde		
Completion Date 9/10/2008		Plug Back Total 1644'	Depth	Packer	Set at		
Casing Size Weight 7", 4-1/2" 17#, 11.6#		Internal Diamete 9-7/8", 6-1/4			forations 40'	то 1480'	
Tubing Size Weight 2-3/8" 4.7#		Internal Diameter Se 1.995 15			forations	То	
Type Completion (Describe) Single (gas)		Type Fluid Prode		Pump Yes	Unit or Traveling	Plunger? Yes	/ No
Producing Thru (Annulus / Tubing)		% Carbon Dioxide		% Nitro	ogen	Gas Gravity - G	
Tubing Vertical Depth(H)	<u> </u>		Pressure Taps		<u>.</u>	(Meter F	Run) (Prover) Size
Pressure Buildup: Shut in		13 _{at} 2:30	(AM) (PM) Ta	en	20	at	(AM) (PM)
Well on Line: Started 10)/29 20	13 at 4:30	(AM) (PM) Tal	en	20	at	(AM) (PM)
		OBSE	RVED SURFACE D	ATA		Duration of Shut-	in_26 Hours
Static / Orifice Meter Dynamic Size Property (inches) Property Property Property (inches) Property Property Property (inches) Property Pro	Differential , sure in	Flowing Well H Temperature Temper	wellhead Pre-		Tubing head Pressure) or (P ₁) or (P _c) psia	Duration (Hours)	Liquid Produced (Barrels)
Shut-In			85	psia paig	psia		
Flow							
		FLOW	STREAM ATTRIBL	TES			
Plate Coefficient (F _b) (F _p) McId Circle one: Meter or Prover Pressure psla	Press Extension ✓ P _m xh	Gravity Factor F	Flowing Temperature Factor F _{rt}	Deviation Factor F	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	Flowing Fluid Gravity G _m
		<u></u>		- <u></u>			
(P _c)² ≈: (P _w)²		(OPEN FLOW) (D	ELIVERABILITY) C. % (Pٍ -	ALCULATIONS 14.4) + 14.4 = 1		(P _a)	² = 0.207 ² =
$(P_c)^2 \cdot (P_n)^2$ $(P_c)^2 \cdot (P_n)^2$ or $(P_c)^2 \cdot (P_d)^2$	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:	Backpressur Slope =	e Curve "n" n	x LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
Open Flow	Mcfd @ 14.6	S5 psia	Deliverability		<u></u>	Mcfd @ 14.65 psi	<u> </u>
The undersigned authority, the facts stated therein, and that		• •	-		•	rt and that he ha	s knowledge of, 20 <u>13</u> .
	s (il any)					отрапу	K CC WIC HI
	nmission					ked by	DEC 3 0 2013
							RECEIVE

	er penalty of perjury under the laws of the state of Kansas that I am authorized to request er Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc
	oing pressure information and statements contained on this application form are true and
	of my knowledge and belief based upon available production summaries and lease records
	allation and/or upon type of completion or upon use being made of the gas well herein named. est a one-year exemption from open flow testing for the Zweygardt 11-32B
	ounds 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
\checkmark	is not capable of producing at a daily rate in excess of 250 mcf/D
I further agre	e to supply to the best of my ability any and all supporting documents deemed by Commission
staff as necessar	y to corroborate this claim for exemption from testing.
Date: 12/13/2013	
Date:	
	. 1
	Signature: Kathlu mills

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. **KCC WICHITA**

DEC 3 0 2013