KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

= '	: en Flo liverab			-		(Test Date		tructi	ions on Re	verse Sid	AF		o. 15	. ,			
Company	,								Lease		15	-02	3- 3697 -0 20,970		Well N	umber	
Noble Energy Inc County Location					Section			Zimbeln	Zimbelman			·	12-31	12-31 Acres Attributed			
Cheyenne S2-NW-SW-NW				31			38			RNG (E/W) 41W			710100				
Field Cherry Creek				Reservoir Niobrara				Gas Gathering (Southern Star/l									
Completion Date 3/13/2008				Plug Bac 1694'	k Total [Depti	h	Pa			Packer Set at						
Casing Size Weight 7, 4-1/2" 17#, 11.6#				Internal Diameter 9-7/8", 6-1/4"			Set a 302'	Perforations 1506'			то 1544'						
Tubing Size Weight 2-3/8" 4,7#					Internal Diameter 1.995			Set at 1573'			ions	То					
Type Completion (Describe) Single (gas)				Type Flui	Type Fluid Production Saltwater						Pump Unit or Traveling Plunger? Yes / No Yes						
Producing Thru (Annulus / Tubing)					arbon D	Dioxic	de		% Nitrogen			Gas G	Gas Gravity - G				
Tubing Vertical Depth(H)						Pressure Taps				((Meter Run) (Prover) Size			
• Pressure	- Duilde		Shut in _2/6	<u> </u>	2	, 13 _{at} 1.	2:35 P	M	/ANA) (DNA)	Tokan		···-	20	at		/AAA /DAA)	
Well on L		ρ.	Started	,	2				. ,					at			
							OBSE	RVEI	D SURFACI	E DATA				Duration of Shu	, 26	Hours	
Static / Dynamic	Dynamic Size		Prover Pressi		Pressure Differential	Flowing Temperature	Well He	ad	Casing Wellhead Pressure		Wellhead		ing Pressure	Duration	Liqu	Liquid Produced (Barrels)	
Property					in Inches H ₂ 0	1	t		psig	(P _w) or (P _t) or (P _c) psig psia		or (P	psia	(Hours)		(Daileis)	
Shut-In									96		ļ	_			-		
Flow											<u> </u>				_[
				T	· · · · · · · · · · · · · · · · · · ·	<u> </u>	FLOW	STR	EAM ATTR	IBUTES		Τ-					
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension P _m x h		Gravity Factor F _g		Flowing Temperature Factor F _{f1}		Deviation Factor F _{pv}		Metered Flow R (Mcfd)		GOF (Cubic F Barre	eeV	Flowing Fluid Gravity G _m	
																<u> </u>	
(P _c) ² =		_:	(P _w) ² :	×	<u> </u>	(OPEN FL			ERABILITY % (F	') CALCUI _c - 14.4) -			;		$(x^2)^2 = 0.5$	207	
(P _c)² - (I	$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_g)^2$		(P _c) ² - (P _w) ²		1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_a^2$ 3. $P_c^2 - P_a^2$ 3. $P_c^2 - P_a^2$	LOG of formula 1, or 2, and divide	formula 1, or 2, and divide p_2_ p_2		Backpressure Curve Slope = "n" or Assigned Standard Slope		e n x	LO	G [Antilog	O De	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flo	w				Mcfd @ 14.	65 psia			Deliverab	oility			1	Mcfd @ 14.65 p	sia		
		•	•						•				· ·	rt and that he h		-	
ne facts s	tated t	herei	in, and that s	aid	report is true	e and correc	t. Exec	uted	this the		day of _	Dec	emper			20 13	
			Witness	(if an	y)				-				For C	отрапу	KC	CC WIC	
			For Com	missio	on			_	-				Chec	ked by	— D	EC 30 2	
													,	•		RECEI	

	eclare under penalty of perjury under the laws of the state of Kansas that I am authorized to request status under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc
	t 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
	ment installation and/or upon type of completion or upon use being made of the gas well herein named.
1 he	reby request a one-year exemption from open flow testing for the Zimbelman 12-31
gas wel	I 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
l fu	rther agree to supply to the best of my ability any and all supporting documents deemed by Commission
	necessary to corroborate this claim for exemption from testing.
J. G. J.	necessary to concess and the claim for exemplicit mean tooling.
Data: 1	2/12/2013
Date:	2/12/2010
	Signature: _ Ruhle mels
	Title: Regulatory Analyst
	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.

DEC 3 0 2013