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## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:				(	See Ins	tructi	ons on Rev	erse Side	<del>)</del> )					
Open Flow Deliverabilty			Test Date	Test Date:					API No. 15 15-023-21083-00-00					
Company Noble Energy Inc				Lease Zweygardt				13				Well Number -33B		
County Location Cheyenne SW-SE-NW-SW			Section 33			TWP 3S		RNG (E/W) 41W			Acres Attributed			
Field Cherry Creek					Reservoir Niobrara				Gas Gathering Connection Southern Star/Kinder Morgan					
Completion Date 9/2/2008				Plug Bac 1556'	Plug Back Total Depth 1556'				Packer Set at					
Casing Size Weight 7", 4-1/2" 17#,11.6#				Internal Diameter 9-7/8", 6-1/4"			Set at 241', 1598'		Perforations 1372'			то 1410'		
Tubing Size	Tubing Size Weight 2-3/8" 4.7#			Internal Diameter 1.995			Set at 1445'		Perforations			То		
Type Completion (Describe) Single (gas)			Type Flui	Type Fluid Production Saltwater				Pump Unit or Traveling P			Plunger? Yes / No			
Producing Thru (Annulus / Tubing)				% Carbon Dioxide							Gas G	ıs Gravity - G		
Tubing Vertical Depth(H)				Pressure Taps				(Meter Run) (Prover) Size				Prover) Size		
		- 11/	12	. 13 4	:30							<u></u>	• •	
				12 7:00			) (PM) Taken							
												<u></u>	26	5
Dynamic	Orifice Size nches)	Circle one: Meter Prover Pressu		Flowing Well Head Temperature t		ead	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Duration of Shat-in		id Produced (Barrels)	
Shut-In		psig (Pm)	Inches H <sub>2</sub> 0	<u> </u>			psig 57	psia	psig	psia				
Flow										1				
	<del></del>		1		FLOW	STR	EAM ATTRI	BUTES		1		1		
Plate Coefficeient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one:  Meter or  Prover Pressure psia  Prover Pressure		Gravity Factor F		Flowing Temperature Factor F <sub>rt</sub>		Deviation Factor F <sub>pv</sub>		Metered Flow R (Mcfd)		GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G <sub>m</sub>
				(OPEN EL	OW) (DI	EL IVE	ERABILITY)	CALCUI	ATIONS	]			_	
(P <sub>c</sub> ) <sup>2</sup> =	<u>:</u>	(P <sub>w</sub> )² =		P <sub>d</sub> =		%	•	- 14.4) +			_:	(P <sub>a</sub> ) (P <sub>d</sub> )	$0.2^2 = 0.2^2 = 0.2^2$	207
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	- 1	(P <sub>c</sub> ) <sup>2</sup> · (P <sub>w</sub> ) <sup>2</sup> 1. P <sub>c</sub> <sup>2</sup> · P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> · P <sub>d</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>		LOG of formula 1. or 2.			Backpressure Curve Slope = "n" or  Assigned Standard Slope		0. x	roe		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
										······································			<u> </u>	
Open Flow			Mcfd @ 14.	65 psia	· ••••••		Deliverabil	lity				Icfd @ 14.65 ps	ia	
The unde	-	•	n behalf of the	Company, s			e is duly aut	thorized t			e report	- · · · · · · · · · · · · · · · · · · ·	as knov	viedge of 20 13 .
		Witness (	if any)		······································	_	******				For Co	mpany	KCC	WICHI
		For Comm	nission			<del></del>	_				Check	ed by	DE(	3 0 2013

t doctare	under penalty of perjury under the laws of the state of Kansas that I am authorized to request
	s 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
	best of my knowledge and belief based upon available production summaries and lease records
	installation and/or upon type of completion or upon use being made of the gas well herein named. request a one-year exemption from open flow testing for the Zweygardt 13-33B
	ne grounds that said well:
(0	theck 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 nece	ssary to corroborate this claim for exemption from testing.
Date: 12/18/	2013
	Signature: Kalhler 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.

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