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## Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test		<u> </u>		(	See Instruct	ions on Re	verse Side	9)				
Open Flow Deliverabilty				Test Date	Test Date:				API No. 15 15-023-21330-00-00			
Company Noble Energy Inc					Lease Rueb Farm			Well Number 31-16B				
County Location Cheyenne SE-SW-NW-NE			Section 16		TWP 3S			RNG (E/W) 42W		Acres Attributed		
Field Armel			Reservoi Niobrar				Gas Gathering Conn Kinder Morgan		ection			
Completion Date 8/29/2011				Plug Bac 1670	k Total Dept	th		Packer Set at				
Casing Size Weight 7", 4-1/2" 17#, 10.5#			Internal Diameter 9-7/8", 6-1/4"			Set at 318',1740		orations 33'	то 1587'			
Tubing Size Weight			Internal (	Diameter	Set a	at	Perforations		То			
Type Completion (Describe) Single (gas)					Type Fluid Production Saltwater			Pump Unit or Traveling Plunger? Yes / No No				
Producing Thru (Annulus / Tubing) Annulus				% (	Carbon Dioxi	de		% Nitrogen		Gas Gra	Gas Gravity - G	
Vertical D					Pres	sure Taps				(Meter F	Run) (Prover) Size	
	D. Aldum	: Shut in	1/25 ,	13 at 9	:20	(DM)	Tokon		20	at	(AM) (DM)	
Pressure Buildup: Shut in 20_				13 at 1		(AM) (PM)				at		
					ORSERVE	D SURFAC	E DATA	<u> </u>		Duration of Shut-i	28.5 Hours	
Static / Dynamic Property	nic Size		Differential in	Flowing Well Head Temperature t t		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> )			Liquid Produced (Barrels)	
Shut-In		psig (Pm	n) Inches H <sub>2</sub> 0			psig 122	psia	psig	psia			
Flow												
			1		FLOW STF	REAM ATTR	BUTES		1			
Plate Coeffictient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Clicke one:  Meter or  Prover Pressure psia  Prover Pmx h		Gravity Factor F		Flowing emperature Factor F <sub>tt</sub> Deviative Factor F <sub>pv</sub>		actor	Metered Flo R (Mcfd)	W GOR (Cubic Fer Barrel)	Flowing Fluid Gravity G <sub>m</sub>	
				(OPEN FI	OW) (DELIV	FRARII ITV	) CALCIII	ATIONS				
(OPEN FLOW) (DELIVERA $(P_c)^2 = $ : $P_d = $						(P <sub>c</sub> - 14.4) + 14.4 =:				2 = 0.207 2 =		
$(P_c)^2 - (P_{\bullet})^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> Choose formula 1 or 2:  1. P <sub>c</sub> <sup>2</sup> - P <sub>s</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. and divide by:		Backpressure Curve Slope = "n" or Assigned Standard Slope		n x LOG		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
					***							
Open Flor			Mcfd @ 14			Deliverat				Mcfd @ 14.65 psi		
	-	-	on behalf of the said report is tru							ort and that he ha	s knowledge of, 20	
				<del> </del>		-				Company	KCC WICH	
	·····		s (if any)			-				Company	DEC 3 1 201	
		For Cor	mmission						Che	cked by	250 0 7 201	

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 Rueb Farm 31-16B 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: 12/27/2013  Signature: Ley Johnson  Title: Completions Supervisor

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

DEC 3 1 2013