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

Type Test	:				(	See Instru	ctions on Rev	erse Side	<del>?</del> )					
	en Flor				Test Date	9:			AP	l No. 15				
De	liverab	ulty								-023-21331-0	0-00			
Company Noble Energy Inc					Lease Rueb Farm				v 44-16B			Well Number 3		
County Location Cheyenne W2-SE-SE				Section 16		TWP 3S			RNG (E/W) 42W		Acres Attributed			
Field Armel					Reservoir Niobrara			Gas Ga Kinder	ection	.,	RECEIVE			
Completion Date 8/31/2011				Plug Bac 1661'	Plug Back Total Depth 1661'			Packer Set at				DEC 05 2		
Casing Si 7", 4-1/2			Weig 17#,	Internal Diameter 9-7/8", 6-1/4"			Set at 306',1702		orations 6'	To 1554'	K(	KCC WICH		
Tubing Size			Weig	Internal Diameter		Set at		Perforations		То				
Type Completion (Describe) Single (gas)					Type Fluid Production Saltwater			Pump Unit or Traveling Plunger? Yes /			/ No			
		(Anı	nulus / Tubir	ng)	% (	Carbon Dio	xide		% Nitro	gen	Gas Gr	avity - G	) <sub>0</sub>	
Annulus Vertical Depth(H)					Pressure Taps					(Meter	Run) (Pr	rover) Size		
Pressure	Buildu	 р:	Shut in5/3	3 2	12 at 2	:00	(AM) (PM) ·	Taken		20 .	at	(	AM) (PM)	
Well on Line:			Started 5/4		0_12_at_2	:30	_	$\tilde{}$						
,		,				OBSERV	ED SURFACE	DATA			Duration of Shut	<sub>in</sub> 24.	5 Hours	
Static / Dynamic Property	namic Size operty (inches		Circle one: Meter Prover Press		Flowing Temperature t	Well Head Temperatur	Wallhaad P	ressure	Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Duration (Hours)	1 '	Liquid Produced (Barrels)	
Shut-In			psig (Pm)	Inches H <sub>2</sub> 0			psig 109	psia	psig	psia				
Flow					·									
_						FLOW ST	REAM ATTRII	BUTES						
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension ✓ P <sub>m</sub> x h	Extension Fact		Flowing Temperature Factor F <sub>rt</sub>		riation actor = <sub>pv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	ic Feet/ Fluid		
				1	(OPEN FL	OW) (DELI	VERABILITY)	CALCUL	ATIONS			2 00	07	
)² =		<u>_:</u>	(P <sub>w</sub> ) <sup>2</sup> :	=:			_% (P,	14.4) +	14.4 =	:		$1^2 = 0.26$ $1^2 =$		
$(P_c)^2 - (P_a)^2$ 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. $P_c^2 - P_a^2$ LOG of formula 2. $P_c^2 - P_a^2$ and divided by: $P_c^2 - P_w^2$ by:		P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	Slope  Assi	Backpressure Curve Slope = "n" or Assigned Standard Slope		rod	Antilog	Deli Equals	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flor	1 w			Mcfd @ 14.	65 psia	· · · · · · ·	Deliverabil	lity	<u> </u>	<u> </u>	Mcfd @ 14.65 ps	ia		
											t and that he ha		_	
e facts si	tated th	herei	in, and that s	aid report is true	e and correc	t. Execute	d this the 30		day of _	vovember		, , 2	20 12 .	
			Witness	(if any)	<del></del>					For Co	ompany			
		·••	For Com	mission				···· ·		Chec	ked by			

exempt st and that t correct to	lare under penalty of perjury under the laws of the state of Kansas that I am authorized to request tatus under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc the foregoing pressure information and statements contained on this application form are true and the best of my knowledge and belief based upon available production summaries and lease records
	nent installation and/or upon type of completion or upon use being made of the gas well herein named.
	eby request a one-year exemption from open flow testing for the Rueb Farm 44-16B
gas well o	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
	ner agree to supply to the best of my ability any and all supporting documents deemed by Commission ecessary to corroborate this claim for exemption from testing.
Date: <u>11.</u>	/30/12
	Signature:  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.