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

Type Test:	•		(	See Instructi	ions on Rev	verse Side	)					
Open Flow	,		Test Date	ıt.			API	No. 15				
Deliverabil	ty		rest Date	•				23-20761-	00-00			
Company Noble Energy Inc				Lease Rueb Farm			11-			Well Number I-16		
County Location Cheyenne NWNW		Section 16		TWP 3S		RNG (E/W) 42W		Acres Attributed				
Field Cherry Creek			Reservoir Niobrara		•		Gas Gath Kinder I	ering Conn Morgan	ection			
Completion Date 7/27/2007			Plug Bac 1672'	k Total Dept	h	Pa		Packer Set at		,		
Casing Size Weight 7", 4-1/2" 17#, 9.5#			Internal 0 9-7/8",		Set at 300', 1723'		Perforations 1544'		To 1580	то 1580'		
Tubing Size Weight 2-3/8" 4.7#		Internal Diameter 1.995		Set at		Perforations		То				
Type Completion Single (gas)	Type Flui	d Production	)		Pump Unit or Traveling P Yes <b>Rod P</b>		g Plunger? (es	Plunger? (es)/ No				
Producing Thru (Annulus / Tubing) Tubing				% Carbon Dioxide			% Nitroge	in in	Gas G	Gas Gravity - G		
Vertical Depth(H)			Pressure Taps			(Meter Run) (Prover) Size						
Pressure Buildup	: Shut in 2/6	3 2	0_13_at_3	00	(AM) (PM)	Taken		20	at		(AM) (PM)	
Well on Line:			12 4-20		(AM) PM	Taken			at	(AM) (PM)		
			· · · · · · · · · · · · · · · · · · ·	OBSERVE	D SURFAC	E DATA			Duration of Shu	<sub>t-in</sub> 25	.5 Hours	
Static / Orific  Dynamic Size  Property (inche	Prover Press		Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure $(P_w) \text{ or } (P_t) \text{ or } (P_c)$		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>e</sub> )		Duration (Hours)		Liquid Produced (Barrels)	
Shut-in	paig (r iii)	Inches H <sub>2</sub> 0			psig 89	psia	psig	psia				
Flow												
				FLOW STR	EAM ATTR	IBUTES	·····				<del>,</del>	
Plate Coefficcient (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>It</sub>		eviation Metered Flow Factor R F <sub>pv</sub> (Mcfd)		GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G <sub>m</sub>	
		<u> </u>	(OPEN FL	OW) (DELIV	ERABILITY	) CALCUL	ATIONS		(P,	) <sup>2</sup> = 0.2	 207	
P <sub>c</sub> ) <sup>2</sup> =	_: (P <sub>w</sub> ) <sup>2</sup> :		P <sub>d</sub> =		% (F	<sub>c</sub> - 14.4) +	14.4 =	<u>:</u>	(P <sub>c</sub>	)2 =		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	(P <sub>c</sub> )²- (P <sub>w</sub> )²	$\begin{array}{c} \text{Choose formula 1 or 2:} \\ P_{c})^{2} - (P_{w})^{2} \\ 1. \ P_{c}^{2} - P_{d}^{2} \\ 2. \ P_{c}^{2} - P_{d}^{2} \\ \text{divided by:} \ P_{c}^{2} - P_{w}^{2} \end{array}$		LOG of formula 1. or 2. and divide by:		Backpressure Curve Slope = "n" or Assigned Standard Slope		og	Antilog	Del Equals	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flow		Mcfd @ 14.	65 neis		Deliverab	nility		<del></del>	Mcfd @ 14.65 p	sia		
··	and cuthedia		•	datas that t		-	n maka #	n above			uladas si	
•	•		• •		•				ort and that he h		·	
e facts stated th	erein, and that s	said report is tru	e and correc	t. Executed	this the		day of				20 <u>13                                    </u>	
	Witness	(if any)			-			For	Company		3 1 201	
	For Com	mission			-			Che	ecked by		ECEIVE	

	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
and tha	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
	oment installation and/or upon type of completion or upon use being made of the gas well herein named.
	ereby request a one-year exemption from open flow testing for the Rueb Farm 11-16
gas we	ll 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
1 fu	rther agree to supply to the best of my ability any and all supporting documents deemed by Commissio
staff as	necessary to corroborate this claim for exemption from testing.
Date: _	12/26/2013
	La L
	Signature:

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 1 2013