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

Type Test	:				(	See Instruct	tions on Re	verse Side	))			
_	en Flor				Test Date	<b>)</b> :			API	l No. 15		
De	liverab	ilty								023-21091-00	)-00	
Company Noble Energy Inc				Lease Rueb					21-16B	/ell Number		
County Cheyenne			Locatio W2-NE-	Section 16		TWP 3S			RNG (E/W) 42W		cres Attributed	
Field Cherry C	Creek				Reservoir Niobrara					thering Connec	ction	
Completic 9/9/2008		е			Plug Bac 1702'	k Total Depi	lh		Packer	Set at		
Casing Size 7", 4-1/2"			Weight 17#, 1		Internal Diameter 9-7/8", 6-1/4"		Set at 363', 1745'		Perforations 1550'		то 1584'	
Tubing Size			Weight		Internal Diameter		Set at		Perforations		То	<del></del>
2-3/8" Type Con	nolotio	. (D.	4.7#		1.995	d Production			0	II ÷ p	51 6 N	
Single (	•		escribe)		Saltwa				Yes	nit or Traveling I	Plunger? Yes	No
Producing Tubing	Thru	(Anı	nulus / Tubing	)	% (	arbon Dioxi	de		% Nitro	gen	Gas Gra	vity - G <sub>g</sub>
Vertical C	epth(H	()				Pres	sure Taps		<del></del>	<del></del>	(Meter P	un) (Prover) Size
Pressure	Buildu	<b>p</b> :	Shut in	2	0 11 at 1	0:45	(AM) (PM)	Taken		20 _	at	(AM) (PM)
Well on L	ine:		Started 1/20		0 <u>11</u> at <u>1</u>		(AM) PM				at	
						OBSERVE	D SURFAC	E DATA			Duration of Shut-l	26.34 Hours
Static /	Static / Orifice Oynamic Size Property (Inches		Circle ons: Meter	Pressure Differential	Flowing Temperature	Well Head Temperature	Wallboad Drageuse		Tubing Wellhead Pressure (P <sub>e</sub> ) or (P <sub>e</sub> ) asig paie		Duration	Liquid Produced
1 - , 1			Prover Pressur psig (Pm)	in Inches H <sub>2</sub> 0	t	t					(Hours)	(Barrets)
Shut-in			ļ				171					
Flow												
<del></del>			<del></del>		<del></del>	FLOW STE	REAM ATTE	IBUTES	<del></del>	1		
Plate Coefficcient (F <sub>b</sub> ) (F <sub>p</sub> ) Mold		Pro	Circle one: Meter or over Pressure psia	Press Extension	_   ractor		Flowing Temperature Factor F <sub>1</sub> ,		viation Metered Flow actor R F <sub>pv</sub> (Mcfd)		GOR (Cubic Fe Barrel)	Flowing Fluid Gravity G <sub>m</sub>
						OW) (DELIV					(P <sub>*</sub> )	2 = 0.207
(P <sub>e</sub> ) <sup>2</sup> =		<del>-</del> :	(P <sub>+</sub> ) <sup>2</sup> = _	hoose formula 1 or 2	P <sub>4</sub> =			P <sub>e</sub> - 14.4) -		: I	(P <sub>d</sub> )	=
(P <sub>a</sub> ) <sup>2</sup> - ( or (P <sub>a</sub> ) <sup>2</sup> - (		(i	P <sub>e</sub> ) <sup>3</sup> · (P <sub>a</sub> ) <sup>3</sup>	1, P <sub>2</sub> P <sub>3</sub> 2, P <sub>2</sub> P <sub>3</sub> Michalor P <sub>2</sub> P <sub>3</sub>	LOG of formula 1. or 2. and divide by:	P.2. P.2	Sic	essure Curv ope = "n" or ssigned dard Slope	0 *	roe	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
Open Flo	w	Mcfd					Delivera	bility	Mcfd @ 14.65 psia			
											rt and that he ha	-
the facts s	italed t	here	in, and that sa	id report is trui				01	day of _	December		, 20 <u>11</u> .
<del>, ,                              </del>			Witness (ii	any)		RECEN			ey	y for C	Luso Company	<u> </u>
			For Commi	SSIOFI		JAN_17	2012	-	V	Chec	ked by	

**KCC WICHITA** 

	er penalty of perjury under the laws of the state of Kansas that I am authorized to request							
	er Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc							
	oing pressure information and statements contained on this application form are true and							
	of my knowledge and belief based upon available production summaries and lease records							
	Illation and/or upon type of completion or upon use being made of the gas well herein named.							
	est a one-year exemption from open flow testing for the Rueb 21-16B							
gas well on the gro	bunds 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: 12/27/2011								
Date.								
	Signature: Ckey Likeson							
	Title: Regulatory Analyst II							

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.

RECEIVED
JAN 1 7. 2012
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