KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(See Instruc	tions on Re	verse Sid	θ)							
=	en Flo liverab				Test Date) :				API N 15-02	o. 15 23 - 20760-0	00-00				
Company Noble E		Inc					Lease Rueb F	arm					V 14-15	Vell Nu	mber	
County Location Cheyenne SE-SE			Section 15		TWP 3S				RNG (E/W) 42W			Acres Attributed				
Field					Reservoir				Gas Gathering Connection Kinder Morgan							
Completion Date					Plug Back Total Depth				Packer Set at							
5/18/2007 Casing Size Weight 7", 4-1/2" 17#, 10.5#			Internal Diameter Set at				Perforations 1502'				то 1536'					
7", 4-1/2" Tubing Size			Weigh		9-1/4", 6-1/4" Internal Diameter			301, 1703' Set at		Perforations			To			
2-3/8" Type Con	•	n (De	4.7# escribe)			d Productio	n .				or Traveling	Plunger?	Yes	/ No		
Single ((Anr	nulus / Tubin	g) .	Saltwa % C	iter Carbon Diox	ide		Yes % Ni	s itroger	า	G	Gas Gra	avity - C) _a	
Tubing Vertical D)enth(F	4)				Pres	ssure Taps								over) Size	
	, opt., (•														
Pressure	Buildu	p: :	Shut in3/1	9 2			. (AM) (PM)	Taken			20	at		(AM) (PM)	
Well on L	.ine:	:	Started 3/2	<u>0 </u>	0 <u>13</u> at <u>2</u>	:00	. (AM) (PM)	Taken			20	at		(AM) (PM)	
						OBSERVI	ED SURFAC	E DATA				Duration of	f Shut-i	n_24	Hours	
Static / Dynamic Property	Dynamic Size		Circle one: Meter Prover Press psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Well Heat Temperature Temperature t		I Wellhead Pressure		Tubing Wellhead Pressure (P_w) or (P_l) or (P_c) psig psia		Duration (Hours)		Liquid Produced (Barrels)			
Shut-In							86				Poss					
Flow								,	<u> </u>							
	ļ			1		FLOW ST	REAM ATTE	IBUTES		<u>1</u>		_				
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension ✓ P _m xh	Grav Fac F _s	tor	Flowing Temperature Factor F _{rt}	F	viation Metered Flo actor R F _{pv} (Mctd)		w GOR (Cubic Fer Barrel)		et/	Flowing Fluid Gravity G _m		
<u> </u>					(OPEN FL	OW) (DELI)	VERABILITY) CALCU	LATIO	NS.					,	
(P _c) ² =		_:	(P _w) ² =	:	P _d =			P _c - 14.4)			·			= 0.2		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		Choose formula 1 or 2 1. $P_c^2 \cdot P_a^2$ 2. $P_c^2 \cdot P_d^2$ divided by: $P_c^2 \cdot P_w^2$	1. P _c ² - P _a ² LOG of formula 2. P _c ² - P _d ² 1. or 2. and divide		Slo As	ckpressure Curve Slope = "n" or Assigned Standard Slope		n x LC	og [Antilo	Antilog E		en Flow verability R x Antilog Mcfd)	
						•										
Open Flo				Mcfd @ 14.	65 pois		Deliverat	silib.				Maid @ 14	ee asi			
		ianec	l authority, o	n behalf of the		states that			to mak	ce the		Mcfd @ 14		******	ledge of	
		•		aid report is true			•				•			•	20 13	
							_						KC	CV	VICHITA	
			Witness (ompany	D	EC 3	1 2013	
			For Comr	nission					•		Chec	ked by		REC	EIVED	

	er penalty of perjury under the laws of the state of Kansas that I am authorized to request ler Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc
and that the foreg correct to the best of equipment insta I hereby reque	going 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 allation and/or upon type of completion or upon use being made of the gas well herein named. The set a one-year exemption from open flow testing for the Rueb Farm 44-15 ounds that said well:
_	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 et to supply to the best of my ability any and all supporting documents deemed by Commission y to corroborate this claim for exemption from testing.
Date: <u>12/27/2013</u>	
	Signature: Cley 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. **KROTWIGHTA** signed and dated on the front side as though it was a verified report of annual test results.

DEC 3 1 2013