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

Type Test	:				(	See Instruc	ctions on Rev	erse Side	?)			
	en Flo liverab				Test Date	e:				No. 15 123-21092-0	0-00	
Company Noble Er		Inc					Lease Rueb Fa	arm			34-15	Well Number
County Location			Section		TWP	RNG (E/W)		V)	4	Acres Attributed		
Cheyenne SW-NE-SW-SE Field				15 Reservoir		3S		42W Gas Gath	ering Conne	ection	RECEIVE	
Cherry Creek				Niobrara	а			Kinder Morgan			DEA D	
Completion Date 9/9/2008				Plug Bac 1595'	k Total Dep	oth	Packer Set at		et at		DEC 2 0 20	
Casing Size Weight ", 4-1/2" 17#, 11.6#			Internal [ 9-7/8",			Set at 304, 1637'		Perforations 1446'		KCC WICHI		
Tubing Size Weight 2-3/8" 4.7#				Internal I 1.995	Diameter	Set a	Set at Pe		Perforations			
Type Completion (Describe) Single (gas)				Type Flui	Type Fluid Production Saltwater			Pump Uni Yes	it or Traveling	Plunger? Yes	unger? Yes / No	
			nulus / Tubing	)		Carbon Diox	kide		% Nitroge	∍n	Gas Gr	avity - G
ubing ertical D	lonth/L	_1\				Pro	ssure Taps		<u>-</u>		(Meter	Run) (Prover) Size
enicai L	epuit	1)				FIG	ssure raps				(IMETEL I	Tidily (Flovely Gize
ressure	Buildu											(AM) (PM)
Vell on L	ine:		Started 10/1	7 2	0 <u>12</u> at <u>1</u>	:20	(AM)(PM)	Taken		20	at	(AM) (PM)
						OBSERV	ED SURFACE	E DATA		<u> </u>	Duration of Shut-	in_24.5 Hours
Dynamic Siz		Orifice Size Prover Pressure psig (Pm)		Pressure Differential		Weli Head	Wellhead	Casing Wellhead Pressure		ubing ad Pressure	Duration	Liquid Produced
				re in Inches H <sub>2</sub> 0	Temperature t	Temperatur t	(P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		(P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		(Hours)	(Barrels)
Shut-In				2			90	psia	psig	μοια		
Flow												
						FLOW ST	REAM ATTR	IBUTES				
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Pro	Circle one: Meter or over Pressure psia	Press Extension P <sub>m</sub> x h	Gra Fac F	tor Temperature		Fá	Deviation Metered Factor R F <sub>pv</sub> (Mc		GOR (Cubic Fe Barrel)	1 Gravity 1
					(OPEN FL	OW) (DELI	VERABILITY	•				$r^2 = 0.207$
o <sub>c</sub> ) <sup>2</sup> =		<del>- : -</del>	(P <sub>w</sub> ) <sup>2</sup> =_	Choose formula 1 or 2	P <sub>d</sub> =			° - 14.4) +		<del></del> :	(P <sub>d</sub> )	)2 =
(P <sub>c</sub> ) <sup>2</sup> - (	₽")²	(F	P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	1. P <sub>c</sub> <sup>2</sup> -P <sub>a</sub> <sup>2</sup>	LOG of formula		Slop	ssure Curve be = "n" - or	l n v i	.og \ \ \	Antilog	Open Flow Deliverability
or (P <sub>c</sub> ) <sup>2</sup> - (	P <sub>d</sub> ) <sup>2</sup>		c	2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w$	1, or 2. and divide by:	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Ass	signed ard Slope				Equals R x Antilog (Mcfd)
		<u></u>										
pen Flo	w			Mcfd @ 14	.65 psia		Deliverab	ility			Mcfd @ 14.65 ps	sia
		•	•	behalf of the			•				rt and that he ha	
o iaulo S	nai60		m, and mat sa	a report is tru-	o and conte	Excoule	- I III III		Juj VI			
-			Witness (if	any)			-		······································	For C	Company	
				isslon			-				ked by	<del> </del>

1 -11 -	
	tre under penalty of perjury under the laws of the state of Kansas that I am authorized to request
	tus under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc
	e foregoing pressure information and statements contained on this application form are true and
	he best of my knowledge and belief based upon available production summaries and lease records
	ent installation and/or upon type of completion or upon use being made of the gas well herein named.
	by request a one-year exemption from open flow testing for the Rueb Farm 34-15B
gas well or	n 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 furthe	er agree to supply to the best of my ability any and all supporting documents deemed by Commissio
staff as ne	cessary to corroborate this claim for exemption from testing.
Date: 12/1	7/2012
Date	
	Signature:
	Title: Regulatory Analyst
	IIIe: regulately rylaryst

## 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.