KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

	l: en Flo liverab				(Test Date	'See Instruc e:	tions on Re	everse Sid	API	No. 15 023-20768-1	20.00		
Company Noble Ei		Inc					Lease Rueb F	arm	10-	023-20700-		Well Nu	mber
County Location Cheyenne NW-NE				Section 16		TWP 3S	TWP		W)	Acres Attributed			
Field					Reservoir Niobrara			Gas Gat Kinder	ection				
Completic 8/27/200		е			Plug Bac 1704'	k Total Dep	th		Packer 8	Set at			
Casing Size Weight 7", 4-1/2" 17#, 9.5#				Internal I 9-7/8",		Set at 302', 1745'		Perforations 1542'		то 1578'			
Tubing Size 2-3/8"			Weight 4.7#		Internal I	Diameter	Set	Set at		Perforations		То	
Type Con Single (n (De	escribe)			Type Fluid Production Saltwater			Pump Unit or Traveling Plunger? Yes /No				
Producing Tubing	g Thru	(Anr	nulus / Tubing)	% C	Carbon Diox	ide		% Nitrog	en	Gas Gr	avity - G	ìo
Vertical D	Pepth(F	()				Pres	sure Taps				(Meter i	Run) (Pa	rover) Size
Pressure	Buildu	p: -	Shut in	2	0 13 at 9	:30	(AM) (PM)	Taken		20	at	(AM) (PM)
Well on Line:			Started 2/15	d 2/15 20		13 at 9:45		(PM) Taken_		20		at(
						OBSERVE	D SURFAC	E DATA			Duration of Shut-	in_24.	25 Hours
Static / Dynamic Property	Dynamic Size		Circle one: Meter Prover Pressu. psig (Pm)	Pressure Differential in Inches H ₂ 0	Temperature Tempe		i Wellhead Pressure		Tubing Wellhead Pressure (P_w) or (P_1) or (P_c) psig psia		Duration Liqu		d Produced Barrels)
Shut-In							106	рыц	parg	рыц			
Flow		•										<u> </u>	
			Circle one:			FLOW STE	REAM ATTE	RIBUTES		.			P ILLUS
Plate Coefficcient (F _b) (F _p) Mctd				Press Extension ✓ P _m x h	Grav Fac F	or Temperature		F:	viation actor F _{pv}	Metered Flo R (Mcfd)	w GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m
(P _c) ² =			(P)² =	:	•	OW) (DELIV		Y) CALCUI (P _c - 14.4) -		:	(P _a)	² = 0.2	07
$(P_c)^2 - (P_a)^2$ 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: $P_c^2 \cdot P_w^2$	LOG of formula 1. or 2. and divide		Backpressure Curv Slope = "n" or Assigned Standard Slope		e n x	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flo	Open Flow Mcfd @ 14.65 psia					Deliveral	bility	1		Mcfd @ 14.65 ps	@ 14.65 psia		
		•	•		, .		•			•	ort and that he ha	is know	ledge of
the facts s	tated t	herei	n, and that sa	id report is true	e and correc	ct. Executed	this the 2	27	day of _C	ecember	1.7		₂₀ <u>13</u> .
			Witness (if	any)	·					For	Company		WICHIT
			For Comm	ssion		***************				Che	cked by		3 1 2013
												RE	CEIVED

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request										
exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc										
and that 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										
of equipment installation and/or upon type of completion or upon use being made of the gas well herein named. I hereby request a one-year exemption from open flow testing for the Rueb Farm 31-16										
gas well on the grounds that said well:										
gas well 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										
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: 12/27/2013										
Signature: 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. The form must be signed and dated on the front side as though it was a verified report of annual test results.

DEC 3 1 2013