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

Type Tes	t:				(	See Instruc	tions on Rev	verse Side	e)				
Or	oen Flo	w			Test Date				A D	No. 15			
De	eliverab	ilty			rest Date	<b>3.</b>				-023-2008	9-00-00		
Company Noble I		зу, I	Inc.				Lease Rueb F	arm			1-16	Well Nu	mber
County Cheyer	nne		Locati W2-W	on 2-E2-NW	Section 16		TWP 3S		RNG (E	/W)		Acres A	Attributed
Field Cherry	Cree	k N	liobrara ga	is area	Reservoi <b>Niobra</b>					thering Conn			
Completion 12/7/19		е			Plug Bac 1580'	k Total Dep	th		Packer s	Set at			
Casing S 8-5/8",		) <sup>11</sup>	Weigh 24#,		Internal [ 9-7/8",		Set a 290'	t , 1704'	Perfo	rations 1	To 569'	1587'	
Tubing S 2-3/8"	ize		Weigh <b>4</b> .7#		Internal I 1.995"	Diameter	Set a 1569		Perfo	rations	То		
Type Cor Single (			escribe)		Type Flui Saltwa	d Production	n		Pump U	nit or Traveling Yes - R	Plunger? (6)	) / No	
Producing	g Thru	(Anı	nulus / Tubing	1)	% C	arbon Dioxi	de		% Nitrog			ravity - 0	<del></del>
Tubing													
Vertical D	Depth(F	1)				Pres	sure Taps				(Meter	Run) (P	rover) Size
Pressure	Buildu	•	Shut in		0 08 at 7		(AM) (PM)	Taken		20	at	(	AM) (PM)
Well on L	.ine:		Started 7/17	<u>'/</u> 2	0 <u>08</u> at 1	1:00	(PM)	Taken	-	20	at	(	AM) (PM)
		. •				OBSERVE	D SURFACE	DATA			Duration of Shut	t-in <u>52</u>	Hours
Static / Dynamic Property	Orifi Siz (inch	e	Circle one: Meter Prover Pressu		Flowing Temperature t	Well Head Temperature t	Casi Wellhead I (P <sub>w</sub> ) or (P	Pressure	Wellhe	Tubing ad Pressure r (P <sub>1</sub> ) or (P <sub>c</sub> )	Duration (Hours)	1 '	d Produced Barrels)
Shut-In			psig (Pm)	Inches H <sub>2</sub> 0			117	psia	psig	psia			
Flow													
					1	FLOW STR	EAM ATTRI	BUTES		<del></del>			
Plate Coeffied (F <sub>b</sub> ) (F Mcfd	ient		Circle one: Meter or ver Pressure psia	Press Extension  P <sub>m</sub> x h	Grav Fact F <sub>g</sub>		Flowing Femperature Factor F <sub>11</sub>		riation actor = pv	Metered Flow R (Mcfd)	w GOR (Cubic Fo Barrel	eet/	Flowing Fluid Gravity G <sub>m</sub>
(D \2 -			(D )2		•		ERABILITY)	CALCUL + (14.4 - ،				) <sup>2</sup> = 0.20	07
(P <sub>o</sub> ) <sup>2</sup> =		<u>- ·                                    </u>	(P <sub>w</sub> ) <sup>2</sup> =	Choose formula 1 or 2	P <sub>q</sub> = .		7	sure Curve			(F <sub>d</sub>	)² =	
(P <sub>c</sub> ) <sup>2</sup> - (F or (P <sub>c</sub> ) <sup>2</sup> - (F	P <sub>a</sub> ) <sup>2</sup>	(P	P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ (ivided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide by:	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	Slop	e = "n" origned ard Slope	l n x i	LOG	Antilog	Deli Equals	en Flow verability R x Antilog Mcfd)
Open Flov	w			Mcfd @ 14.	65 neia		Deliverabi	lity	_		Mcfd @ 14.65 ps		
				id report is true			4	~#h	o make the	Mari	rt and that he ha		edge of
			Witness (if	any)	KAN	REG SASCORPO	CEIVEL) PRATION CON	innissior	01	unifer For C	Barne	tt	
<u></u> .			For Commi	ssion		(VIXIO	0 6 2009	1	0	Chec	sked by		
						1\A9\A1\A	6 6 7 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	)			-		

CONSERVATION DIVISION

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 1-16  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 Commissio staff as necessary to corroborate this claim for exemption from testing.
Date: 3/5/09
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.