KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:				(See Instruc	ctions on Re	verse Side	e)					
Or	en Flo	w			Toot Date				٨٥	I No. 15				
De	eliverat	oilty			Test Date	∌:				1 No. 15 -023-21202-(00-00			
Company Noble E		, Inc).				Lease Keller F	arms			31-18	Well Number		
County Cheyenne			Location SE-SE-NW-NE		Section 18		TWP 2S		RNG (E/W) 38W		Acres Attributed			
Field		Niol	brara Gas A	Area	Reservoi Niobrara					thering Conn ern Star via F	ection Record Compres	ssor		
Completi 1/9/2009		le			Plug Bac 1479'	k Total Dep	oth		Packer N/A	Set at				
Casing S 7", 4-1/2		Weight 17#, 11.6#			Internal (9-7/8",		Set at 229', 1518'		Perforations 1268'		то 1310'			
Tubing Size 2-3/8"			Weight 4.7#		Internal Diamete 1.995"		Set at 1332'		Perforations		То			
Type Cor Single (•	•	escribe)		Type Flui Saltwa	d Productio	on		Pump U No	nit or Traveling	Plunger? Yes	/ No		
Producin	g Thru	(An	nulus / Tubin	ıg)	% C	arbon Diox	ide		% Nitro	gen	Gas Gra	avity - G _g		
Tubing						.,								
Vertical E	Depth(F	1)				Pres	ssure Taps				(Meter F	Run) (Prover) S	ize	
Pressure	Buildu	p:	Shut in	4/ 2	0 <u>09</u> at		. (AM) (PM)	Taken		20	at	(AM) (PN	Л)	
Well on L	.ine:		Started 1/1		0 <u>09</u> at <u>3</u>		\sim	Taken			at			
						OBSERVE	ED SURFACE	DATA			Duration of Shut-i	_п _120н	ours	
Static / Dynamic Property	Orifi Siz (inch	е	Circle one: Meter Prover Press		Flowing Temperature t	Well Head Temperature t	Casi Wellhead I (P _w) or (P _t	Pressure	Wellhe	Tubing ead Pressure or (P ₁) or (P _c)	Duration (Hours)	Liquid Produce (Barrels)	Produced	
Shut-In		•	psig (Pm)	Inches H ₂ 0			psig 300	psia	psig	psia				
Flow														
						FLOW ST	REAM ATTRI	BUTES						
Plate Coeffied (F _b) (F	ient	Pro	Circle one: Meter or ever Pressure psia	Press Extension P _m x h	Grav Fact F _g		Flowing Temperature Factor F _{ft}	1	iation ctor :	Metered Flov R (Mcfd)	v GOR (Cubic Fee Barrel)	Flowin Fluid Gravit G _m	ĭ	
				<u> </u>	(OPEN FLO	OW) (DELIV	/ERABILITY)	CALCUL	ATIONS		/D \2			
(P _c) ² =		_:	(P _w) ² =	::	P _d =		% (P	_c - 14.4) +	14.4 = _	;	(P _d) ²	= 0.207 =		
(P _c) ² - (F	Ĭ	(F	(c)2 - (P _w)2	Choose formula 1 or 2. 1. P _c ² - P _a ² 2. P _c ² - P _d ²	LOG of formuta 1. or 2. and divide	P _c ² - P _w ²	Slop Ass	sure Curve e = "n" origned ard Slope	пх	LOG	Antilog	Open Flow Deliverability Equals R x Ant (Mcfd)		
				divided by: P _c ² - P _w ²	by:	<u> </u>	Stanua						-	
Open Flow Mcfd @ 14				Mcfd @ 14.	4.65 psia Delive			lity	Mcfd @ 14.65 psia			_		
The u	ındersi	gned	authority, o	n behalf of the	Company, s	tates that h	ne is duly aut		\sim	, , ,	rt and that he has	•		
the facts st	tated th	nerei	n, and that s	aid report is true	and correct		this the 15	th	day of C	october	.01	, ₂₀ <u>09</u>		
			Witness (if any)	KANS	AS CORPORA	ATION COMMIS	SION //	m	For C	ompany			
			For Comm	nission		-0CT- 1	9 2009 –			Chec	ked by			

	e under penalty of perjury under the laws of the state of Kansas that I am authorized to request us under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy, Inc.
	foregoing pressure information and statements contained on this application form are true and
of equipmer	e best of my knowledge and belief based upon available production summaries and lease records it installation and/or upon type of completion or upon use being made of the gas well herein named. request a one-year exemption from open flow testing for the
	the grounds 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 agree to supply to the best of my ability any and all supporting documents deemed by Commission
staff as nec	essary to corroborate this claim for exemption from testing.
	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.