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

Type Tes	t:					(	See Instruc	tions on Re	verse Side	e)				
Op	en Flo	w				T D				4.50	N= 45			
De	liverat	oilty				Test Date	<b>)</b> :				No. 15 023-21126-	00-00		
Company Noble E		. Inc	·.					Lease Keller F	arms			32-12	Vell Nur	mber
County			Loca	tion V-SW-NE		Section 12		TWP 2S		RNG (E/W) 39W		Acres Attributed		
Field		Niol	brara Gas			Reservoir Niobrara				Gas Ga	hering Conn	ection Record Compres	sor	
Completion 11/13/20	on Dat		orara Gao				k Total Dep	th	***************************************	Packer S N/A				
Casing Size 7", 4-1/2"			Weight 17#, 9.5#			Internal Diameter 9-7/8", 6-1/4"		Set at 170', 1447'		Perforations 1243'		то 1268'		
Tubing Size			Weight			Internal Diamete 1.995"				Perforations		To		
Type Cor	•	•	4.7# escribe)			Type Flui	d Productio		O		nit or Traveling	Plunger? Yes	/ No	
Single (	, ,		nulus / Tubir	)a)		Saltwa	arbon Diox	ide		No % Nitrog	ien	Gas Gra	vity - G	
Tubing			nuius / Tubli	·9 <i>)</i>		/6 <b>O</b>				/8 TVICTO				-
Vertical D	Pepth(F	<del>1</del> )					Pres	sure Taps				(Meter P	lun) (Pr	over) Size
Pressure	Buildu	•	Shut in					(AM) (PM)	Taken		20	at	(/	AM) (PM)
Well on L	.ine:		Started 1/1	9/	20	09 at 12	2:00	(AM)(PM)	Taken		20	at	(/	AM) (PM)
							OBSERVE	D SURFAC	E DATA	·-		Duration of Shut-i	148	8 Hours
Static / Dynamic Property	Orifi Siz (inch	e	Circle one: Meter Prover Press		intial	Flowing Temperature t	Well Head Temperature t	(P <sub>w</sub> ) or (F	Pressure	Wellhe	Tubing ad Pressure r (P <sub>t</sub> ) or (P <sub>c</sub> )	Duration (Hours)		Produced arrels)
Shut-In			psig (Pm)	Inches	П2О			psig 196	psia	psig	psia			
Flow														
							FLOW STE	REAM ATTR	IBUTES					
Plate Coeffiec (F <sub>b</sub> ) (F Mcfd	ient	Pro	Circle one: Meter or over Pressure psia	Pre: Exten:	sion	Grav Fact F <sub>g</sub>	or .	Flowing Temperature Factor F <sub>11</sub>	1	iation ctor pv	Metered Flow R (Mcfd)	v GOR (Cubic Fee Barrel)	t/	Flowing Fluid Gravity G <sub>m</sub>
(P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> ) <sup>2</sup> :	=		(OPEN FLO	• •	<b>'ERABILITY</b> % (F	) CALCUL P <sub>c</sub> - 14.4) +		:	$(P_a)^2$ $(P_d)^2$	= 0.20 =	)7 
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		1. P <sub>c</sub> <sup>2</sup> - 2. P <sub>c</sub> <sup>2</sup> -	1. P <sub>c</sub> <sup>2</sup> - P <sub>e</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup>		P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	Backpressure C Slope = "n" or Assigned		nx	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
				divided by: P	2-P <sub>w</sub> 2	by:		Stand	ard Slope					
Open Flo	w			Mcfd (	@ 14.6	35 psia		Deliverab	ility			Mcfd @ 14.65 psia	l	
		•	d authority, on, and that s					•		Λ	ctober	rt and that he has		edge of 0 <u>09</u> .
			\$4.00-	Et and		KANS	RECE AS CORPORA	EIVED TION COMMIS	SSION	hin	K b	Soph		
			Witness		···		<del>-                                    </del>	9 2009 -				cked by		

	er penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy, Inc.
	going pressure information and statements contained on this application form are true and
correct to the bes	t 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.  est a one-year exemption from open flow testing for theKeller Farms 32-12
	rounds 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
<b>✓</b>	is not capable of producing at a daily rate in excess of 250 mcf/D
	e 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: 10/15/09	
	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.