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

Type Test	t:		OIL		(	See Instru	uctions on Re	rerse Side	=) =)			
Op	en Flo	w			Test Date	·			ΔΡΙ	No. 15		
De	liverab	ilty			iest Date					023-21169-0	0-00	
Company Noble E		Inc					Lease Keller F	arms			43-13	Well Number
County Cheyenr	ne		Location NW-SE		Section 13		TWP 2S		RNG (E/ 39W	W)	,	Acres Attributed
Field		Niol	orara Gas A	rea	Reservoir Niobrara					hering Conne rn Star via R	ection ecord Compres	ssor
Completion 12/4/200		e			Plug Bac 1375'	k Total De	epth		Packer S N/A	Set at		
Casing S 7", 4-1/2			Weigh 17#, 1		Internal [ 9-7/8",		Set a 143'	 t , 1419'	Perfo 119	rations 6'	то 1240'	The state of the s
Tubing S 2-3/8"			Weigh 4.7#		Internal [		Set a 1263		Perfo	rations	То	
Type Cor Single (	•		escribe)		Type Flui Saltwa	d Product	ion		Pump Ui No	nit or Traveling	Plunger? Yes	/ No
			nulus / Tubing	)	% C	Carbon Dic	oxide		% Nitrog	jen	Gas Gra	avity - G <sub>g</sub>
Vertical C	Depth(H	ł)				Pre	essure Taps				(Meter F	Run) (Prover) Size
Pressure	Buildu		Shut in	2	08 at_		(AM) (PM)	Taken		20	at	(AM) (PM)
Well on L	.ine:		Started 1/19	9/20	09 at 3	:40	_ (AM) (PM)	Taken		20	at	(AM) (PM)
						OBSER\	/ED SURFACI	DATA	· ···-·		Duration of Shut-	n 984 Hours
Static / Dynamic Property	Orifi Siz (inch	е	Circle ane: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperatu t	Wellhead (P <sub>w</sub> ) or (P	Pressure ) or (P <sub>c</sub> )	Wellhe	Tubing ad Pressure r (P <sub>1</sub> ) or (P <sub>c</sub> )	Duration (Hours)	Liquid Produced (Barrels)
Shut-In			poig (i iii)	mones 11 <sub>2</sub> 0			262	psia	psig	psia		
Flow												
					·	FLOW S	TREAM ATTR	BUTES				
Plate Coeffied (F <sub>b</sub> ) (F Mofd	ient p)	Pro	Circle one: Meter or Iver Pressure psia	Press Extension  P <sub>m</sub> x h	Grav Fac F	tor	Flowing Temperature Factor F <sub>11</sub>	Fa	riation actor - pv	Metered Flow R (Mcfd)	GOR (Cubic Fed Barrel)	Flowing Fluid Gravity G <sub>m</sub>
					(ODEN EL	OW) (DEL	IVERABILITY	CALCUI	ATIONS			
(P <sub>c</sub> ) <sup>2</sup> =			(P <sub>w</sub> ) <sup>2</sup> =		P <sub>d</sub> =			calcol c - 14.4) +		:	(P <sub>a</sub> )² (P <sub>d</sub> )²	? = 0.207 ? =
(P <sub>c</sub> ) <sup>2</sup> - (I		(F	P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2:  1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide		Backpres Slop 	ssure Curve be = "n" or signed ard Slope	, ,	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
Open Flo	w			Mcfd @ 14.	65 psia		Deliverab	ility	I		Mcfd @ 14.65 psi	a
		-	·	behalf of the		t. Execute			o make the day of $\frac{9}{2}$	/ 1	rt and that he ha	s knowledge of, 20 <u>09</u>
			Witness (if	any)	KANS		PRATION COMMI	ssion VC	m	Ford	ompany	
			For Comm	ssion		OCT	<b>1 9</b> 2009-			Chec	ked by	

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 Keller Farms 43-13  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.
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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.