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

Type Test	:			(	See Instruc	tions on Rev	verse Side	)					
_ :	en Flow			Test Date	<b>9</b> :				No. 15				
Company					<u> </u>	Lease		15-	023-21061-0		Well Nu	ımber	
Noble Energy Inc  County Location				Section		Keller Fa	Keller Farms		RNG (E/W)		33-18 Acres Attributed		
Cheyenne SE-NE-NW-SE				18		28							
Field Cherry Creek				Reservoir Niobrara					thering Conne ern Star	ection			
Completion Date 11/21/2008				Plug Bac 1351'	k Total Dep	th	Packer Set at				DEC 0 5 20		
Casing Size Weight 7", 4-1/2" 17#, 9.5#			Internal [ 9-7/8",		Set at 153',1396'		Perforations 1200'		To 1238'				
Tubing Size Weight 2-3/8" 4.7#			Internal [ 1.995	Diameter	Set at 1260'		Perforations		То	То			
Type Completion (Describe) Single (gas)				Type Flui Saltwa	d Production	n	Pump Unit or Traveling Plunge Yes			Plunger? Yes	er? Yes / No		
Producing Thru (Annulus / Tubing) Tubing				% C	% Carbon Dioxide			% Nitrogen Gas Gravity - G <sub>g</sub>				3 <sub>9</sub>	
Vertical Depth(H)					Pressure Taps					(Meter	Run) (P	rover) Size	
Pressure	Buildup:	Shut in9/1	1 2	0 12 at 9	:30	(AM) (PM)	Taken		20	at		(AM) (PM)	
•			0 12 at 1	12 11:30 =			20 at			, , , ,			
	· · · · · · · · · · · · · · · · · · ·				OBSERVE	D SURFACE	DATA			Duration of Shut	-in_26	Hours	
Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)		
Shut-In		paig (i iii)	inches 11 <sub>2</sub> 0			psig 142	psia	psig	psia				
Flow													
					FLOW STF	REAM ATTRI	IBUTES						
Plate Coeffieci (F <sub>b</sub> ) (F Mcfd	ent ,) Pr	Circle one: Meter or over Pressure psia	Press Extension P <sub>m</sub> x h	Grav Fac F	tor	Flowing Temperature Factor F <sub>tt</sub>	Fa	eviation Metered Flow Factor R F <sub>pv</sub> (Mcfd)		GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G <sub>m</sub>	
				<u> </u>			<u> </u>						
P <sub>c</sub> ) <sup>2</sup> =	:	(P <sub>w</sub> ) <sup>2</sup> =	::	(OPEN FL		<b>'ERABILITY</b> ) % (P	) CALCUL <sup>)</sup> <sub>c</sub> - 14.4) +		•		$0.2^2 = 0.2^2$	07	
(P <sub>c</sub> ) <sup>2</sup> - (F or (P <sub>c</sub> ) <sup>2</sup> - (F		P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2  1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	Backpressure Curv Slope = "n" ""		l n x	roe	Antilog	Del Equals	pen Flow iverability a R x Antilog (Mcfd)	
					•								
Ones Flam		Maria @ 14 CC			E poio		Dolivershills		M-tJ @ :		14.65 osio		
Open Flor			Mcfd @ 14.	<del></del>		Deliverab				Mcfd @ 14.65 ps			
			n behalf of the							rt and that he ha		ledge of 20	
		Witness (	if any)	·		***			For C	ompany			
		For Comm	nission			_			Chec	ked by			
		, or contin							Offec				

er penalty of perjury under the laws of the state of Kansas that I am authorized to request											
er Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc											
oing pressure information and statements contained on this application form are true and											
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 theKeller Farms 33-18											
gas well on the grounds that said well:											
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											
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.											
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.