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

Type Test	t: oen Flo	w			·		ctions on Rev	erse Side		No. 15				
De	eliverab	ilty			Test Date	e:				No. 15 023-21063-0	00-00			
Company Noble Energy, Inc.						Lease Keller Farms				Well Number 22-18				
County Location Cheyenne NE-SE-SE-NW				Section 18	TWP 2S	RNG (E/W) 38W			Acres Attributed					
Field Cherry Creek Niobrara Gas Area					Reservoir Niobrara			Gas Gathering Connection Southern Star via Record Compressor						
Completion Date 11/20/2008				Plug Bac 1361'	Plug Back Total Depth 1361'				Packer Set at					
Casing S 7", 4-1/			Weigh 17#, 1	Internal Diameter 9-7/8", 6-1/4"		Set at 212', 1394'		Perforations 1212'		то 1248'				
Tubing S 2-3/8"	ize		Weigh <b>4.7</b> #	Internal Diameter 1.995"		Set at 1272'		Perforations		То				
Type Completion (Describe) Single (Gas)				Type Fluid Production Saltwater				Pump Ur yes	Plunger? Yes	/ No				
Producing Thru (Annulus / Tubing) Tubing				% Carbon Dioxide				% Nitrog	en	Gas G	Gas Gravity - G <sub>g</sub>			
Vertical D	Depth(H	l)				Pre	ssure Taps	.,			(Meter	Run) (F	rover) Size	
Pressure	Buildu	p: :	Shut in 4/22	2/ 2	0_10_at_9	:45	(AM) (PM)	Taken		20	at		(AM) (PM)	
Well on L	.ine:		Started 4/23	3/2	0 10 at 3	:50	(AM)(PM)	Taken		20	at		(AM) (PM)	
						OBSERV	ED SURFACE	DATA	1.		Duration of Shut	-in_29	Hours	
Static / Dynamic Property	Dynamic Size		Circle one: Pressu  Meter Differen  Prover Pressure in  psig (Pm) Inches		Flowing Well Head Temperature t		I Wellhead Pressure		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> ) psig psia				id Produced Barrels)	
Shut-In				•			135	poid	, , , , , , , , , , , , , , , , , , ,	poss				
Flow														
			Cit-			FLOW ST	REAM ATTRI	BUTES						
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one:  Meter or  Prover Pressure  psia		Press Extension P <sub>m</sub> xh	Factor		Flowing Temperature Factor F <sub>ft</sub>	Fa	eviation Metered Fid Factor R F <sub>pv</sub> (Mcfd)		v GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G <sub>m</sub>	
					,									
(P <sub>c</sub> ) <sup>2</sup> =			(P <sub>w</sub> ) <sup>2</sup> =		,		VERABILITY) % (P.	CALCUL - 14.4) +			(P <sub>a</sub>	$)^2 = 0.2$	207	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_\sigma)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		1. 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>	Backpres Slop  Ass	sure Curve e = "n" origned			Antilog	O De	Open Flow Deliverability Equals R x Antilog (Mcfd)	
			-	divided by: $P_c^2 - P_w^2$	by:	<u>L` "-1</u>	Standa	rd Slope						
												<b>1</b>		
Open Flow Mcfd @ 14.65 psia					· · · · · · · · · · · · · · · · · · ·	Deliverability				Mcfd @ 14.65 psia				
		_	-							•	ort and that he h		-	
the facts s	tated th	nerei	n, and that sa	id report is true	e and correc	t. Execute	d this the 16		day of A	ugust 1	0000	—, H,	20 10	
***************************************			Witness (il	any)		<del></del>		$\mathcal{A}$	VVVYN		Company	<b>∨∟.</b>	KEUEIVE	
			For Comm	ission			-			Che	cked by	—— <b>A</b>	<del>UG 1 9 2</del> 1	

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 22-18  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.
Date: 8/16/10
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.