## Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test:			(3	See Instruct	ions on Re	verse Side	<del>)</del> )				
Open Flow Deliverabilty	1		Test Date	:				No. 15 )23-21196-0	0-00		
Company Noble Energy In				Lease Keller Farms					v 32-18	Well Number 32-18	
County Location Cheyenne SE-NW-SW-NE		Section 18		TWP 2S		RNG (E/W) 38W		į.	Acres Attributed		
Field Cherry Creek			Reservoir Niobrara				Gas Gathering Connection Southern Star				
Completion Date 1/9/2009			Plug Back Total Depth 1443'			Packer S	et at	F	· · · · · · · · · · · · · · · · · · ·		
Casing Size Weight 7", 4-1/2" 17#, 10.5#			Internal D 9-7/8",	Diameter · 6-1/4"	Set at 278',1483'		Perforations 1284'		то 1324'		
Tubing Size Weight 2-3/8" 4.7#		Internal Diameter 1.995		Set at 1286'		Perforations		То	То		
Type Completion (Describe) Single (gas)			Type Fluid Production Saltwater				Pump Unit or Traveling Plunger? Yes / No				
Producing Thru (A	Annulus / Tubing)		% C	arbon Dioxi	de		% Nitrog		Gas Gra	avity - G <sub>g</sub>	
Vertical Depth(H)				Pres	sure Taps				(Meter F	Run) (Prover) Size	
Pressure Buildup:	Shut in 9/27	20	13 at 12	2:00	(AM) (PM)	Taken		20	at	(AM) (PM)	
Well on Line:	Started 9/28		13 at 2:	:05	(AM) (PM)	Taken		20	at	(AM) (PM)	
				OBSERVE	D SURFAC	E DATA			Duration of Shut-i	n 26 Hours	
Static / Orifice Dynamic Size Property (inches	Meter Prover Pressure	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Well Her Temperature Temperat		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)	miches 11 <sub>2</sub> 0		,	114	psia	psig	psia			
Flow											
·			<del></del>	FLOW STE	REAM ATTE	IBUTES					
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mofd	Circle one:  Meter or  Prover Pressure  psia	Press Extension P <sub>m</sub> x h	Grav Fact F	tor	Flowing Temperature Factor F <sub>f1</sub>	F	viation actor F <sub>pv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Fer Barrel)	Flowing Fluid Gravity G <sub>m</sub>	
(P <sub>c</sub> ) <sup>2</sup> =	: (P)² =		•	OW) (DELIV		-	 LATIONS + 14.4 =		(P <sub>a</sub> ) <sup>2</sup> (P <sub>d</sub> ) <sup>2</sup>	e = 0.207	
	Ci	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> vided by: P <sub>c</sub> <sup>2</sup> -P <sub>a</sub> <sup>2</sup>		P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	Backpre Slo 	essure Curvi pe = "n" - or signed lard Slope	e n x l	ГЛ	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flow		Mcfd @ 14.6	i5 psia		Deliveral	oility	1		Mcfd @ 14.65 psi	a	
-	-								rt and that he ha		
the facts stated the	rein, and that said	d report is true	and correc	t. Executed	I this the $\frac{2}{}$	<u>r</u>	day of	ecenine!	w	, <sub>20</sub> _ <u>13</u> . ^^ \/\/C JIT/	
	Witness (if a	any)			•			For C	Company	C WICHITA	
	For Commis	sion						Chec	cked by	EC 3 1 2013 RECEIVED	

exempt status und and that the foreg correct to the best of equipment insta	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.  noing 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 allation and/or upon type of completion or upon use being made of the gas well herein named.  The est a one-year exemption from open flow testing for the Keller Farms 32-18
(Check	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 at to supply to the best of my ability any and all supporting documents deemed by Commission
Date: 12/27/13	Signature: Lay Johnson  Title: Completions Supervisor

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. **KCC WICHITA** 

DEC 3 1 2013