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

Type Test	:				, (·	See Instruc	ctions o	n Rev	erse Side	<del>)</del> )							
= '	en Flov				Test Date	Test Date: API No. 15											
Del	liverabi	ilty								15-0	23 <b>-</b> 2129 <b>1-</b> 0	00-00					
Company Noble Energy Inc						Lease Duell Trusts							Well Number 34-33				
County Location Cheyenne NW-NW-SW-SE					Section 33					RNG (E/W) 39W				Acres Attributed			
,						Reservoir Niobrara				Gas Gathering Connection Kinder Morgan							
Completion Date				Plug Baci 1487'	Plug Back Total Depth 1487'				Packer Se	et at				<del> </del>			
Casing Size Weight				Internal E 9 7/8",		Set at 399'	t 1527'	Performance 1326		то 1352'							
				Internal D	Internal Diameter 1.995			t	Perforations			То					
				Type Flui	1.995 1387 Type Fluid Production Saltwater				Pump Unit or Traveling Plunger? Yes / No Yes								
	<del></del>	(Anr	nulus / Tubing	])		arbon Dio	xide			% Nitroge	n		Gas Gra	vity - G	<u> </u>		
Tubing															<u> </u>		
Vertical D	epth(H	)				Pre	ssure Ta	aps					(Meter R	lun) (Pr	over) Size		
Pressure	Buildu	p: {	Shut in11/	11 2	0_13 at_8:	:40	_ (AM)	(PM)	Taken		20	at_		(/	AM) (PM)		
Well on Li	ine:	ţ	Started 11/	12 2	0 13 at 8	:40	- (AM)	(PM)	Taken		20	at _	•	(/	AM) (PM)		
						OBSERV	ED SUF	RFACE	DATA			Duration	of Shut-i	n_24	Hours		
Static / Orifice Dynamic Size Property (inches)		e	Circle one: Meter Prover Pressu	Pressure Differential in	Flowing Temperature t	Well Head Temperatur	e Wei	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure $(P_w)$ or $(P_1)$ or $(P_c)$		Duration (Hours)		Liquid Produced (Barrels)			
		55)	psig (Pm)	Inches H <sub>2</sub> 0		!			psia	psig	psia	<u></u>					
Shut-In Flow	i						58	_									
Flow					<u> </u>	FLOW ST	DEAM	ATTRI	DUTEC	<u></u>	1						
Plate			Circle one:				Flowin		DOTES			<u> </u>		· · · · · ·	Flowing		
Coefficient (F <sub>b</sub> ) (F <sub>p</sub> ) Mofd		Meter or Prover Pressure psia		Press Extension P <sub>m</sub> x h	ension Fac		Tempera Facto	Temperature Di		riation actor F <sub>pv</sub>	Metered Flor R (Mcfd)		GOR (Cubic Feet/ Barrel)		Fluid Gravity G		
													<u></u>				
(P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> ) <sup>2</sup> =		(OPEN FL			•	CALCUL - 14.4) +		:		(P <sub>e</sub> ) <sup>2</sup> (P <sub>d</sub> ) <sup>2</sup>	= 0.20	)7 		
(P <sub>c</sub> ) <sup>2</sup> - (P <sub>a</sub> ) <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</sub> ) <sup>2</sup>		(P <sub>c</sub> )² - (P <sub>w</sub> )²		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>w</sub>	P <sup>2</sup> -P <sup>2</sup> LOG of formula P <sup>2</sup> -P <sup>2</sup> 1. or 2.		B:	Backpressure Curving Stope = "n"		n x LOG		Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)			
									· · · · ·								
Open Flo	w			Mcfd @ 14	.65 psia		Del	iverabi	ility			Mcfd @ 1	4.65 psi	a			
		•	•	n behalf of the	, ,			-			-	ort and th	at he ha				
the facts s	tated t	herei	in, and that s	aid report is tru	e and correc	t. Execute	ed this th	ne <u>16</u>	<u> </u>	day of De	ecember		KC		<sub>20</sub> <u>13</u>  CHITA		
			Witness (	if any)				-			For	Company					
<u></u>			For Comm	nission				_			Che	cked by			2013		
													1.7	トしに	IVED		

exempt status under and that the forego correct to the best of equipment instal	or penalty of perjury under the laws of the state of Kansas that I am authorized to request the Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Incoming 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 lation and/or upon type of completion or upon use being made of the gas well herein named. It is a one-year exemption from open flow testing for the Duell Trusts 34-33 bounds that said well:
(Check o	
Date: 12/16/2013	Signature: 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.