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

Type Test	:				(	See Instruc	tions on Re	verse Side	e)					
	en Flov liverabi				Test Date	<b>)</b> :				No. 15 023-20993-	00-00			
Company Noble Energy Inc				Lease Douthit					12-21	Well Number 12-21				
County Location Cheyenne SW-SE-SW-NW				Section 21		TWP 4S			/W)	Acres Attributed				
					Reservoir Niobrara				thering Conn rn Star	ection				
				Plug Bac 1427'	Plug Back Total Depth 1427'				Set at					
Casing Size Weight 7", 4 -1/2" 17#, 11.6#			Internal Diameter Set at 9-7/8", 6-1/4" 121', 1468				Perfo 125	rations 3'	то 1292'	то 1292'				
Tubing Size Weight 2-3/8" 4.7#				Internal I	Diameter		Set at 1309'		rations	То	То			
					Type Fluid Production saltwater			Pump Unit or Traveling Plunger? Yes / Yes			/ No			
Producing	g Thru	(Anr	nulus / Tubing	)	% C	Carbon Diox	ride		% Nitrog	jen	Gas G	ravity - (	Э <sub>0</sub>	
Vertical D	epth(H	)			<u> </u>	Pres	ssure Taps				(Meter	Run) (P	rover) Size	
Pressure	Buildu	p: \$	3/20	2	0_13_at_1	:00	(AM) (PM)	Taken		20	at		(AM) (PM)	
•			2	13 2:00			20 at (AM) (PM)			(AM) (PM)				
		,				OBSERVI	ED SURFAC	E DATA			Duration of Shut	25 t-in	Hours	
Static / Dynamic Property	Dynamic Size		Circle one: Meter Prover Pressur psig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Well Heat Temperature t		I Wollhoad Proceuro		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> ) psig psia		Duration (Hours)			
Shut-In	_						81							
Flow														
<u> </u>	1					FLOW ST	REAM ATTE	RIBUTES		<u> </u>	<del></del>			
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one:  Meter or  Prover Pressure  psia		Press Extension ✓ P <sub>m</sub> x h	Gravity Factor F <sub>g</sub>		Temperature		eviation Metered Flov Factor R F <sub>pv</sub> (Mcfd)		GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G <sub>m</sub>	
(D.)3					-		VERABILITY	•				) <sup>2</sup> = 0.2		
$(P_c)^2 = \underline{\qquad \qquad }$ $(P_c)^2 \cdot (P_a)^2$ or $(P_c)^2 \cdot (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		2. P <sub>c</sub> <sup>2</sup> - P <sub>u</sub> <sup>2</sup> 1. Moded by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	LOG of formula 1, or 2, and divide		Backpressure Curv		e	LOG [	Antilog	Del Equals	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flo				Mcfd @ 14	• • • • • • • • • • • • • • • • • • • •	ploton that	Deliveral		to make t	ho shows room	Mcfd @ 14.65 ps		uladae of	
		-	•	benair or the			•			-	ort and that he h	,	vieage of 20 <u>13                                    </u>	
·			Witness (if	any)						For			3 1 2013	
•			For Commi	ssion						Che	ecked by		CEIVED	

exempt status und and that the foreg correct to the bes	er penalty of perjury under the laws of the state of Kansas that I am authorized to request ler Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc.  going pressure information and statements contained on this application form are true and to fmy 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.  est a one-year exemption from open flow testing for the Douthit 12-21
	ounds that said well:
•	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 eto supply to the best of my ability any and all supporting documents deemed by Commission y to corroborate this claim for exemption from testing.
Date: 12/16/2013	<u>;                                    </u>
	Signature: Ley Duven  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.