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

Type Test	t:				. (	See Instru	ctions on Re	everse Side	<del>)</del> )				
	en Flo eliverab				Test Date	e:				No. 15 23-21068-0	0-00		
Company Noble Energy Inc							Lease Dunba	Lease Dunbar			Well Number 31-13		
County Cheyenr	ne		Locatio SW-NE-		Section .13		TWP 2S		RNG (E/ 39W	N)	,	Acres Attributed	
Field Cherry C	Creek				Reservoi Niobrara				Gas Gath Souther	nering Conne n Star	ction		
Completic 11/11/20		е			Plug Bac 1367'	k Total De	pth		Packer S	et at			
Casing S 7", 4 1/2			Weight 17#, 1	0.5#	Internal I 9 7/8",		Set 162	at 2', 1407'	Perfor		To 1260'	·	
Tubing Si 2 3/8"	ize		Weight <b>4.7</b> #		Internal I 1.995	Diameter	Set 128		Perfor	ations	То	·	
Type Con Single (		n (De	escribe)	<del>da</del>	Type Flui Saltwa	d Producti I <b>ter</b>	on		Pump Un yes	it or Traveling	Plunger? Yes	/ No	
Producing Tubing	g Thru	(Anı	nulus / Tubing)		% C	Carbon Dio	xide		% Nitroge	en	Gas Gr	avity - G <sub>g</sub>	
Vertical D	Depth(F	1)				Pre	ssure Taps				(Meter F	Run) (Prover) Size	
Pressure	Buildu	p:	3/15	2	0_11 at_2	:00	(AM) (PM)	Taken		20 .	at	(AM) (PM)	
Well on L	.ine:		Started 3/16	2	0 11 at 2	:30	_ (AM) (PM)	Taken		20 .	at	(AM) (PM)	
				*		OBSERV	ED SURFAC	E DATA			Duration of Shut-	24.5 Hours	
Static / Dynamic Property	Orifi Siz (inch	е	Circle one: Meter Prover Pressure psig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperatur t	Wellhead	sing I Pressure P <sub>1</sub> ) or (P <sub>c</sub> )	Wellhea	ubing ad Pressure $(P_t) \text{ or } (P_c)$ psia	Duration (Hours)	Liquid Produced (Barrels)	
Shut-In							95	polu	polg	pou			
Flow					·		<u> </u>				<del></del>		
	1					FLOW ST	REAM ATT	RIBUTES	· .		<u> </u>		
Plate Coeffiec (F <sub>b</sub> ) (F Mcfd	ient	Pro	Circle one: Meter or ver Pressure psia	Press Extension √ P <sub>m</sub> x h	Grav Fac F	tor	Flowing Temperature Factor F <sub>f1</sub>	Fa	riation actor = pv	Metered Flow R (Mcfd)	GOR (Cubic Fer Barrel)	Flowing Fluid Gravity G <sub>m</sub>	
					(OREN EL	0140 (DELL	VCD A DIL 173	0.041.011	ATIONS				
(P <sub>c</sub> ) <sup>2</sup> =		:	(P <sub>w</sub> ) <sup>2</sup> =_	:•	P <sub>d</sub> =	• •	VERABILITY % (	P <sub>c</sub> - 14.4) +		:	· (P <sub>a</sub> ) <sup>2</sup>	2 = 0.207 2 =	
(P <sub>c</sub> ) <sup>2</sup> - (I or (P <sub>c</sub> ) <sup>2</sup> - (I		(F	(P <sub>w</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	hoose formula 1 or 2.  1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ wided by: $P_c^2 - P_a^2$	LOG of formula 1. or 2. and divide	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Backpro Sid	essure Curve ope = "n" or ssigned dard Slope	nxi	og [	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flow Mcfd @ 14.6					Delivera	Deliverability		Mer		fd @ 14.65 psia			
		aner	t authority on		· · ·	states that			o make the		t and that he ha		
		-	n, and that said		· ·				day of No		· //	, 20 <u>11</u> .	
			Witness (if a	nny)		···		<u>CL</u>	euf	For Co	Lon	RECEIVED	
			For Commis						U	Check	· ,	DEC 0 2 201	

KCC WICHITA

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	er penalty of perjury under the laws of the state of Kansas that I am authorized to request							
xempt status und	der Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc							
nd that the fore	going pressure information and statements contained on this application form are true and							
orrect to the bes	t 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.							
I hereby requ	est a one-year exemption from open flow testing for the							
as well on the gr	ounds that said well:							
(Check	onal							
(Oneck	is a coalbed methane producer							
	is cycled on plunger lift due to water							
片	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							
7	is not capable of producing at a daily rate in excess of 250 mcf/D							
1 further agre	e to supply to the best of my ability any and all supporting documents deemed by Commissi							
taff as necessar	y to corroborate this claim for exemption from testing.							
ate: 11/11/2011								
	·							
,								
	Signature: Chell Show							
	Title: Regulatory Analyst II							

## 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 rule be signed and dated on the front side as though it was a verified report of annual test results.

DEC 02 2011