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

Type Test	t:			(-	See Instruc	ctions on Re	verse Side	j				
	en Flow liverabil		Test Date: API No. 15 15-023-21283-00-00									
Company Noble Energy Inc				Lease Rogers						33-31	Well Number 33-31	
County Cheyenr	ne	Locat NE-NE	ion -NW-SE	Section 31		TWP 5S			RNG (E/W) 39W		Acres Attributed	
Field Prairie S	itar	, ,		Reservoir Niobrara				Gas Gatt Kinder I	nering Conne Morgan	ection		
Completion Date 5/23/11			•	Plug Back 1507'	k Total De <sub>l</sub>	oth		Packer Set at				
Casing Size 7", 4-1/2"		Weig! 17#,	ht 11.6#	Internal Diameter 9-7/8", 6-1/4"			Set at 367',1550'		Perforations 1346'		то 1376'	
Tubing Size 2-3/8"		Weight 4.7#		tnternal Diameter 1.995		Set a	Set at		Perforations			
Type Con Single (		(Describe)		Type Flui Saltwa	d Productio	on		Pump Unit or Traveling Plur No		Plunger? Yes	/ No	
Producing	g Thru (	Annulus / Tubin	g)	% C	kide		% Nitrogen		Gas Gravity - G <sub>g</sub>			
/ertical E	Pepth(H)				Pre	ssure Taps		:		(Meter	Run) (Prover)	Size
oressure	Buildup	: Shut in	/18	13 at 9	:30	(AM) (PM)	Taken		20	at	(AM) (	(PM)
Well on L		Started 11/	/19 2	o 13 at 9	:30	_ (PM)	Taken		20	at	(AM) (	(PM)
					OBSERV	ED SURFAC	E DATA			Duration of Shut	-in_24	_Hours
Static / Oynamic Property	Orific Size (inche	Prover Press		Flowing Temperature t	Well Head Temperatur t	(P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$		Duration (Hours)	Liquid Prod (Barrels	
Shut-In		parg (Filit)	inches ri <sub>2</sub> o			127	psia	psig	psia			
Flow												
	<del></del>		1		FLOW ST	REAM ATTE	RIBUTES	ſ			<del></del>	
Plate Coeffied (F <sub>b</sub> ) (F Mofe	eient p)	Circle one: Meter or Prover Pressure psia	Press Extension	Extension Fac		Flowing Temperature Factor F <sub>ft</sub>	Fa	iation ctor <sub>P</sub> v	Metered Flov R (Mcfd)	v GOR (Cubic Fe Barrel)	eet/ Gr	owing Iluid ravity G <sub>m</sub>
P <sub>c</sub> )² =		.: (P <sub>w</sub> )²:	=:	(OPEN FL	. ,	VERABILITY _% (	/) CALCUL P <sub>e</sub> - 14.4) +		:		) <sup>2</sup> = 0.207 ) <sup>2</sup> =	_
(P <sub>c</sub> ) <sup>2</sup> - ( or (P <sub>c</sub> ) <sup>2</sup> - (	_	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2  1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_d$	LOG of formula 1. or 2. and divide	P.2. P.2	Slo As	essure Curve ppe = "n" or ssigned dard Slope	n x i	.og [ ]	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flow			Mcfd @ 14.65 psia			Deliverability				Mcfd @ 14.65 ps	14 65 nsia	
Open Flo		ned authority	-		states that		<u> </u>	o make th		ort and that he ha		e of
		erein, and that s							ecember	or and mar no m	, 20 _1	
		Witness	(if any)		······································				For 0	Company	KCC V	VIC
		For Com	mission•						Che	cked by	DEC 3	
									•			
											スたく	EIVE

exempt sta	are under penalty of perjury under the laws of the state of Kansas that I am authorized to request atus under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc
of equipme	the best of my knowledge and belief based upon available production summaries and lease records ent installation and/or upon type of completion or upon use being made of the gas well herein named.  by request a one-year exemption from open flow testing for the Rogers 33-31
	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  er agree to supply to the best of my ability any and all supporting documents deemed by Commission
staff as ne Date: <u>12/</u> 2	ecessary to corroborate this claim for exemption from testing.
	Signature: Regulatory Analyst

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.

MCC WICHITA

DEC 3 1 2013

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