KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	i:				(See Instruc	ctions on Rev	verse Side	;)			
Open Flow Deliverabilty			Test Date:				API No. 15 15-023-21179-00-00					
Company Noble Energy Inc				Lease Rogers				Well Number 44-31			Well Number	
			Locati NE-SW	ion /-SE-SE	Section 31			TWP 5S		RNG (E/W) 39W		Acres Attributed
Field			Reservoir Niobrara			•	Gas Gathering Connection Kinder Morgan					
Completion Date 5/16/2011				Plug Back Total Depth 1493'				Packer S	Set at			
Casing Size 7", 4-1/2"			Weigh 20#,	11.6#	Internal Diameter 9-7/8", 6-1/4"		Set at 367',1538'		Perforations 1332'		то 1358'	
Tubing Size Weight					Internal I		Set at		Perforations		. То	
Type Con Single (n (De	escribe)		Type Flui Saltwa	d Productio	on		Pump Ur No	nit or Traveling	Plunger? Yes	/(No)
Producing Thru (Annulus / Tubing)			g)	% Carbon Dioxide				% Nitrogen		Gas G	Gas Gravity - G	
Annulus Casing Vertical Depth(H)					Pressure Taps				· · · · · · · · · · · · · · · · · · ·	(Meter	Run) (Prover) Size	
Pressure Buildup: Shut in			Shut in	2				(PM) Taken		20	at	(AM) (PM)
Well on L	ine:	:	Started 11/	15 2	0 13 at 1	2:30	. (AM) (PM)	Taken	····	20	at	(AM) (PM)
						OBSERV	ED SURFACI	E DATA			Duration of Shut	in 28 Hours
Static / Dynamic Property	amic Size perty (inches)		Circle one: Meter Prover Pressi		Flowing Well F Temperature Temper		rature (P) or (P) or (P)		Tubing Wellhead Pressure (P_w) or (P_1) or (P_2)		Duration (Hours)	Liquid Produced (Barrels)
Shut-In			psig (Pm)	Inches H ₂ 0			psig 62	psia	psig	psia		
Flow												
			·			FLOW ST	REAM ATTR	IBUTES				***************************************
Plate Coefficeient (F _b) (F _p) Mcfd			Circle one: Meter or over Pressure psia	Press Extension √ P _m xh	Gra Fac F	tor	Flowing Temperature Factor F _{rt}		Deviation Metered Flo Factor R F _{pv} (Mcfd)		y GOR (Cubic Fe Barrel)	et/ Fluid Gravity
(P _c)² =		_:	(P _w) ² =	· •:	(OPEN FL		VERABILITY _% (F) CALCUL 2 - 14.4) +		:	-) ² = 0.207) ² =
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c)²- (P _w)²		1. P _o ² - P _o ² 2. P _o ² - P _o ² divided by: P _o ² - P _o ²	LOG of formula 1. or 2. and divide	P _c ² -P _w ²	Backpressure Curv Slope = "n" or Assigned Standard Slope		n x LOG		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
Open Flo	w		1	Mcfd @ 14.	65 nsia		Deliverab	ility	<u> </u>		Mcfd @ 14.65 ps) sia
<u> </u>		ioner	d authority o	•	•	states that			n make th		rt and that he ha	
		-	•	aid report is true			•			ecember	T and that he to	, 20 <u>13</u>
							-					KCC WICH
			Witness ((if any)			-			For C	Company	TOO WIOT
			For Comr	nission			-			Chec	ked by	DEC 3 1 201

	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
and that the foregorrect to the bes of equipment insta	going pressure information and statements contained on this application form are true and tof 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 Rogers 44-31 ounds that said well:
(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 eto supply to the best of my ability any and all supporting documents deemed by Commission
staff as necessar Date: <u>12/26/13</u>	y to corroborate this claim for exemption from testing. ———————————————————————————————————

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

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