KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	it: pen Flo	w			((See Instru	uctions on Re	verse Side)					
= '	eliverab				Test Dat	e:				No. 15 023-21167-0	0-00			
Company Noble Energy Inc			Lease Zimbelman			nan			Well Number 33-13					
County Location Cheyenne NW-SE-						TWP 2S		RNG (E/W) 39W			Acres Attributed			
Field Cherry (Creek				Reservoi Niobrar					hering Conne	ection		···	
Completi 12/2/200		0			Plug Bac 1429'	k Total De	epth		Packer S	Set at	 _			
Casing Size 7, 4-1/2"			Weigh 17#, 1		Internal Diameter 9-7/8", 6-1/4"		-	Set at 190', 1474'		Perforations 1248'		To 1282'		
Tubing Size 2-3/8"			Weight 4.7#		Internal Diameter 1.995			Set at 1313'		Perforations		То		
Type Completion (Describe) Single (gas)				Type Fluid Production Saltwater				Pump Ui Yes	nit or Traveling	Plunger? Ye	ger? Yes / No			
Producing Thru (Annulus / Tubing			nutus / Tubing)	% (% Carbon Dioxide		% 1		en	Gas	Gas Gravity - G		
Vertical (Depth(F	()		-		Pre	essure Taps			·	(Mete	er Run) (F	Prover) Size	
Pressure	Buildu		Shut in 3/1		0 11 at 2		_ (AM) PM	Taken		20	at		(AM) (PM)	
Well on L	ine:		Started 3/2	2	o <u>11</u> at <u>2</u>	:00	_ (AM) (PM)	Taken		20	at		(AM) (PM)	
						OBSERV	/ED SURFAC	E DATA			Duration of Sh	ut-in_24	Hours	
Static / Dynamic Property	mic Size		Circle one: Pressu Meter Differen Prover Pressure in psig (Pm) Inches		Temperature Temperatu		Wellhead Pressure (P _a) or (P _i) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _c)		Duration (Hours)		id Produced (Barrels)	
Shul-In							140	psia	psig	osia				
Flow														
	T					FLOW \$1	TREAM ATTR	IBUTES						
Plate Coefflecient (F _p) (F _p) Mcfd		Pro	Circle one: Meter or ver Pressure psia	Press Extension P _m xh	Gravity Factor F _g		Flowing Temperature Factor F ₁₁		riation ictor	Metered Flov R (Mcfd)	y GO (Cubic Barr	Feet	Flowing Fluid Gravity G _m	
L					(OPEN FL	OW) (DEL:	IVERABILITY) CALCUI	ATIONS					
(P _e) ² =		<u> </u>	(P _w) ² =	· · · · · · · · · · · · · · · · · · ·	P _d =			- 14.4) +		:		$(a^2a)^2 = 0.1$	207 	
$(P_e)^2 - (P_a)^2$ or $(P_a)^2 - (P_a)^2$		(P _e)²- (P _w)²		1. P _a ² - P _a ² 2. P _a ² - P _a ² Wided by: P _a ² - P _a ²	LOG of formuta 1. or 2. and divide	P,2-P,2	Šlo As	Backpressure Curvi Slope = "n" or Assigned Slandard Slope		LOG	Antilog	De	Open Flow Deliverability Equals R x Antilog (Mcfd)	
										·				
Open Flo				Mcfd @ 14.			Deliverat			•	Mcfd @ 14.65			
				behalf of the	and correc	t. Execute	ed this the <u>2</u>		_	ne above repo December	ort and that he	has know	wledge of 20 11 .	
			Witness (if	any)		RECEI	VED		Kei	y Fort	ompany C	100	~	
			For Commi	ssion	J	<u> AN 1.7</u>	7 2012		0		cked by			

KCC WICHITA

	der penalty of perjury under the laws of the state of Kansas that I am authorized to request
and that the fore correct to the bes of equipment inst	regoing pressure information and statements contained on this application form are true and statements of my knowledge and belief based upon available production summaries and lease records tallation and/or upon type of completion or upon use being made of the gas well herein named.
gas well on the g	rounds that said well:
I further agre	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 ee to supply to the best of my ability any and all supporting documents deemed by Commission by to corroborate this claim for exemption from testing.
Date: <u>12/28/201</u>	
	Signature: Ley Johnson 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.

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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.