RECEIVED

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	l: en Flo				(-	See Instruc	tions on Revi	erse Sid	9)				
	livera				Test Date) :				No. 15)23-21123-0	0-00		
Company Noble Energy Inc					Lease Keller Farms					Well Number 24-12			
County Location Cheyenne NW-NE-SE-SW				Section 12				RNG (E/ 39W		Acres Attributed			
Field					Reservoir Niobrara			Gas Gat Souther	ection				
				Plug Bac 1426'	Plug Back Total Depth 1426'				et at				
Casing Size Weight 7", 4-1/2" 17#, 10.5#			Internal E 9-7/8",		Set at 190', 1462'		Perforations 1251'		™ 1278'	то 1278'			
	Tubing Size W				Internal Diameter 1.995		Set at 1296'		Perforations		То		
2-3/8" 4.7# Type Completion (Describe) Single (gas)				Type Flui	Type Fluid Production Saltwater				Pump Unit or Traveling Plunger? (A) / No				
			nulus / Tubing)			arbon Diox	ide	·····	% Nitrog	en I UIM	Gas G	ravity - (э̂,
Tubing Vertical D)ooth(ш.				Pres	sure Taps				(Motor	Run) (P	rover) Size
verticar L	sepuit	'''				1162	ssure raps				/werei	11011) (1	10 (61) 0126
Pressure	Build	•	Shut in11/5		13 at 9		(PM)	Taken	,	20	at		(AM) (PM)
Well on L	ine:		Started 11/6	20	13 at 9	:45	(PM)	Taken		20	at		(AM) (PM)
						OBSERVE	ED SURFACE	DATA			Duration of Shut	24	Hours
Static / Dynamic	lynamic Size Property (inches)		Circle one: Meter Prover Pressure	Pressure Differential in	Flowing Temperature t	Well Head Temperature t	Wellhead F	Casing Welihead Pressure (P _w) or (P _t) or (P _c) psig psia 103		iubing ad Pressure · (P ₁) or (P _c)	Duration (Hours)	Liquid Produced (Barrels)	
Shut-In			psig (Pm)	Inches H ₂ 0			 			psia			
Flow													
						FLOW STI	REAM ATTRI	BUTES	· · · · · · · · · · · · · · · · · · ·				
Plate Coefficcient (F _b) (F _p) Mcfd		Pro	Circle one: Meter or over Pressure psia	Press Extension P _m xh	tension Fac		tor Temperature		viation actor F _{pv}	Metered Flow R (Mcfd)	(Cubic F	GOR (Cubic Feet/ Garrel)	
(P _c) ² =		:	(P _w) ² =	:	•	• •	/ERABILITY) % (P		LATIONS + 14.4 =	:		$()^2 = 0.2$ $()^2 =$	207
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² · (P _w) ²		1. P _c ² - P _a ² 2. P _c ² - P _d ² ded by: P _c ² - P _d ²	LOG of tormula 1. or 2.		Backpressure Cur Slope = "n"		re n x LOG		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
				, c w									
												1	
Open Flo	w			Mcfd @ 14.	65 psia		Deliverabi	lity			Mcfd @ 14.65 p	sia	
		-	-								rt and that he h		
ine facts s	stated	there	in, and that said	a report is true	and correc	or. Execute:	u this the		aay of			·	20 13 .
			Witness (if a	ıny)	······		_	············		For C	Company	(CC	WICH!
			For Commis	sion			_			Chec	cked by	DFC	3 1 2013

	er penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc
and that the foregotorrect to the best of equipment instance. I hereby requ	going pressure information and statements contained on this application form are true and 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. est a one-year exemption from open flow testing for the Keller Farms 24-12 younds 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 e to supply to the best of my ability any and all supporting documents deemed by Commission y to corroborate this claim for exemption from testing.
	Signature: <u>Aleus Johnson</u> Title: <u>Completions Supervisor</u>

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