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KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test: Open Fl	ow					tions on Rev	erse Side	•			
☐ Delivera				Test Date	:				No. 15 023-20979-0	00-00	
Company Noble Energy	/ Inc			•		Lease Rueb Fa	arm		220 200 1 0	13-16	Well Number
County Location Cheyenne SW-SW			Section TWP 16 3S				RNG (E/W) 42W			Acres Attributed	
Field Cherry Creek			Reservoir Niobrara				Gas Gathering Connection Kinder Morgan				
Completion Date 4/7/2008			Plug Back Total Depth 1724'			Packer S					
Casing Size Weight 17#, 10.5#			Internal D 9-7/8",		Set at 320', 1766'		Perforations 1540'		то 1580	то 1580'	
ubing Size	ing Size Weight		Internal Diameter 1.995		Set at		Perforations		То		
Type Completion (Describe) Single (gas)				Type Fluid Production Saltwater			Pump Unit or Traveling Plunger? (@S) / No Yes Rod Pump				
Producing Thre		nulus / Tubing)	% C	arbon Dioxi	ide		% Nitrog	en	Gas G	ravity - G _g
/ertical Depth	(H)	 			Pres	sure Taps		•		(Meter	Run) (Prover) Size
Pressure Build	up:	Shut in 11/	19 20	13 _{at} 2:	:15	(AM) (PM)	Taken		20	at	(AM) (PM)
Well on Line:		Started 11/2	20 20	13 at 4:	:30	(AM) (PM)	Taken		20	at	(AM) (PM)
					OBSERVE	D SURFACE	E DATA			Duration of Shu	1-in 26.25 Hours
Dynamic S	Orifice Circle one: Size Meter Prover Pressur (inches) psig (Pm)		Pressure Differential re in Inches H ₂ 0	Flowing Well Head Temperature Temperatur		I Wallhaad Praceura		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		Duration (Hours)	Liquid Produced (Barrels)
Shut-In	n					161					
Flow											
	1			T	FLOW STF	REAM ATTR	IBUTES	T			
Plate Coefficcient (F _b) (F _p) Mcfd	Pro	Circle one: Meter or Prover Pressure psia Press Extension P _m x h		Gravity Factor F ₀		Flowing Deviation Factor F ₁₁		actor	Metered Flow R (Mcfd)	v GOR (Cubic F Barre	eet/ Fluid
	<u> </u>			(OPEN FL	OW) (DELIV	/ERABILITY) CALCUI	LATIONS		/D	.) ² = 0.207
P _c)² =	:	(P _w) ² =		P _d =		% (F	P _c - 14.4) +	+ 14.4 =	<u> </u>) ² =
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_a)^2$	(F	P _c)²- (P _w)²	Choose formula 1 or 2: 1. P _c ² - P _s ² 2. P _c ² - P _d ² divided by: P _c ² - P _s ²	LOG of formula 1. or 2. and divide by:	P _c ² -P _w ²	Slop As:	ssure Curve de = "n" - or signed ard Slope	n x 1	roe	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
			- , ,								
Open Flow			Mcfd @ 14.6	S5 neia		Deliverab	sility			Mcfd @ 14.65 p	sia
•	rsione	d authority, or			states that h			to make th		·	as knowledge of
	•		aid report is true			•			•		, 20 <u>13</u> .
		Witness (i	f anv\			-	·····		ra.		४०० \\/
		F 1111000 (1	,,						rort	Company	KCC WICH

l de	eclare under penalty of perjury under the laws of the state of Kansas that I am authorized to request
	status under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc
	at the foregoing pressure information and statements contained on this application form are true and
	to the best of my knowledge and belief based upon available production summaries and lease records
	oment installation and/or upon type of completion or upon use being made of the gas well herein named. ereby request a one-year exemption from open flow testing for the Rueb Farm 13-16
	Il on 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
1 fu	rther agree to supply to the best of my ability any and all supporting documents deemed by Commission
staff as	necessary to corroborate this claim for exemption from testing.
Date: _	12/26/2013
	\mathcal{L}
	Signature:
	Title: 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.

KCC WICHITA

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