Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test	t:				(See Instruc	tions on Re	verse Side	e)				
	en Flo liverab				Test Date	: :			_	No. 15 23-20986-0	0-00		
Company Noble Energy Inc				Lease Douthit				13-2			Well Number		
County Cheyenne			Locati SW-NV		Section 21		TWP 4S		RNG (E/W) 41W			Acres Attributed	
Field Cherry Creek			Reservoir Niobrara						hering Conn ern Star/Kind				
Completion Date 8/25/2011			Plug Back Total Depth 1425'				Packer \$	Set at .					
Casing Size 7", 4 1/2"			Weigh 17#, 1		Internal Diameter 9 7/8", 6 1/4"		Set at 119', 1467'		Perforations 1238'		To 1277'		
Tubing Size 2 3/8"			Weight 4.7#		Internal Diameter 1.995		Set at 1220		Perforations		То	То	
Type Completion (Describe) Single (gas)				Type Fluid Production Saltwater				Pump Unit or Traveling Plunger? Yes / No yes					
	g Thru	(Anı	nulus / Tubing))	% C	Carbon Diox	ide		% Nitrog	jen	Gas G	ravity - (3,
Tubing Vertical D	Depth(F	H)				Pres	sure Taps				(Meter	Run) (P	rover) Size
Pressure	Buildu	ıp:	Shut in3/20	0 2	0_13 at_1	:30	(AM) (PM)	Taken		20	at		(AM) (PM)
Well on Line:			Started 3/2	1 2	0_13_at_1	13 at 1:45		AM) (PM) Taken		20		((AM) (PM)
						OBSERVE	D SURFAC	E DATA			Duration of Shut	-in_24.	.25 Hours
Static / Dynamic Property	Dynamic Size		Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H ₂ 0	lemperature lempe		rature (P_w) or (P_t) or (P_c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration Li (Hours)		d Produced Barrels)
Shut-In			parg (i iii)	110.103 1120			psig 155	psia	psig	psia		1	
Flow													
r	 i					FLOW STF	REAM ATTR	IBUTES					
Plate Coefficcient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension ✓ P _m x h	Grav Fac F	or Temperature		Fa	riation actor F _{pv}	Metered Flor R (Mcfd)	w GOR (Cubic Fo Barrel	eet/	Flowing Fluid Gravity G _m
	1				•	OW) (DELIV		•) ² = 0.2	07
(P _e)²- (i	$(P_c)^2 = {(P_c)^2 \cdot (P_a)^2}$ or $(P_c)^2 \cdot (P_d)^2$		P _c)²- (P _w)²	Choose formula 1 or 2. 1. P _c ² - P _e ² 2. P _c ² - P _d ² divided by: P _c ² - P _w ²	LOG of formula 1. or 2. and divide		% (P _c - 14.4) + Backpressure Curve Slope = "n"		e n x	roe []	(P _d)	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flo	w			Mcfd @ 14.	65 psia		Deliverab	oility			Mcfd @ 14.65 ps	ia	
The i	unders	igned	d authority, or	behalf of the	Company, s	states that h	ne is duly au	uthorized t	to make ti	ne above repo	ort and that he h	as know	ledge of
the facts s	tated t	herei	n, and that sa	id report is true	and correc	t. Executed	this the 1	6	day of _	ecember			20 13
			Witness (i	any)			-			Fort	KC Company	X OX	<u>/ICHITA</u>
			For Comm				_					EC_3	1 2013
			. v. vaali							CIIE		REC	EIVED

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	under penalty of perjury under the laws of the state of Kansas that I am authorized to request						
exempt status	under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc						
and that the fo	pregoing pressure information and statements contained on this application form are true and						
correct to the b	best of my knowledge and belief based upon available production summaries and lease records						
7 7	nstallation and/or upon type of completion or upon use being made of the gas well herein named.						
I hereby re	quest a one-year exemption from open flow testing for the						
gas well on the	e grounds that said well:						
(Ch	eck one)						
is a coalbed methane producer is cycled on plunger lift due to water							
	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						
I further a	gree to supply to the best of my ability any and all supporting documents deemed by Commission						
·	sary to corroborate this claim for exemption from testing.						
	·						
Date: 12/16/2	013						
	Signature: Chery Johnson						
	Title: Completions Supervisor						
	Title: Completions Supervisor						

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. Signed and dated on the front side as though it was a verified report of annual test results.

DEC 3 1 2013