KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:					(See Instruc	ctions on Re	everse Side	e)				
	en Flo eliverat					Test Date	: :				I No. 15 -023-21208-	00-00		
Company Noble E		Inc						Lease Ray		,		41-17	Well Nu	ımber
County Cheyenne			Location SE-NW-NE-NE			Section 17		TWP 2S		RNG (E/W) 38W		Acres Attributed		Attributed
Field Cherry Creek			Reservoir Niobrara				Gas Gathering Connection Southern Star							
Completion 1/20/200		te				Plug Bac 1535'	k Total Dep	oth		Packer	Set at			
Casing Size 7", 4-1/2"			Weight 17#, 10.5#			internal [9-7/8",		Set at 298', 1579'		Perforations 1350'		то · 1380'		
Tubing Size 2-3/8"			Weig 4.7#	ht	Internal Diamete			Set at 1412'		Perforations		То	То	
Type Completion (Describe) Single (gas)							d Production				Pump Unit or Traveling Plung			
Producing			nulus / Tubi	ng)			arbon Diox	ride		% Nitro	gen	Gas G	iravity - (3,
Tubing Vertical D	Depth(i	H)					Pres	ssure Taps				(Meter	Run) (P	rover) Size
D	D. 212		Shua in 7/2	24		0_13_at_7	:00		. 75.l. · ·					/ALA\ /DLA\
Pressure Buildup: Well on Line:			Snut in 20		0at 0_13_at_8		\mathcal{O}	(AM) (PM) Taken) at		, , , ,	
							OBSERV	ED SURFAC	E DATA		<u> </u>	Duration of Shu	, in 25	Hours
Static / Dynamic Property	[Circle one: Meter Prover Press	Differ	ential	Flowing Temperature t	Well Head	Well Head Casing Wellhead Press		Tubing Wellhead Pressure . (P_w) or (P_t) or (P_c)		Duration (Hours)	Duration Liquid	
Shut-In	(1110)		psig (Pm) Inche	H ₂ 0			psig 244	psia	psig	psia	-		
Flow														
			,			i	FLOW ST	REAM ATTI	RIBUTES					
Plate Coefficcient (F _b) (F _p) Mcfd		Pro	Circle one: Meter or Prover Pressure psia		ss sion xh	Grav Fac F	tor	Flowing Temperature Factor F _{it}		viation actor F _{pv}	Metered Flo R (Mcfd)	R (Cubic F		Flowing Fluid Gravity G _m
	<u>.</u>					40								
(P _c) ² =		_:	(P _w) ²	=	_:	•	• •	VERABILITY _% (Y) CALCUI [P _c - 14.4) -		•		$()^2 = 0.2$ $()^2 = $	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(F	(P _c) ² - (P _w) ²		: 1. P _c ² - P _u ² 2. P _c ² - P _d ² ivided by: P _c ² - P _w ²		P _c ² - P _w ²	Backpressure Curv Slope = "n" or Assigned Standard Slope		n v	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flo	w	l		Mcfd	@ 14.	65 psia		Delivera	bility			Mcfd @ 14.65 p	sia	
		•	•					•			•	ort and that he h		•
ne racts s	nated 1	merei	n, and that	satu report	is true	and correc	ı. Execute	d this the $\frac{2}{}$		aay of		ı	CC C	20 <u>13</u> WICHI
			Witness	(if any)							For	Company		3 1 2013
			ForCom	imission							Ćhe	ecked by		CEIVED

exempt stand that the correct to of equipment there	lare under penalty of perjury under the laws of the state of Kansas that I am authorized to request tatus under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc. The foregoing pressure information and statements contained on this application form are true and the best of my knowledge and belief based upon available production summaries and lease records nent installation and/or upon type of completion or upon use being made of the gas well herein named. Beby request a one-year exemption from open flow testing for the Ray 41-17 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 her agree to supply to the best of my ability any and all supporting documents deemed by Commission ecessary to corroborate this claim for exemption from testing.
Date: <u>12/</u>	Signature:

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