KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:	: en Flov	~			•		tructio	ons on Re	verse Sid	•	NI 1840	4.14				
Del	iverabi	ilty			Test Date	9:					PI No. 023-	15 21308-(00-00			
Company NOBLE E		GY,	, INC.	_	······································			Lease NIPPS				···		v 13-33B	Veil Nu	mber
County Location CHEYENNE NW/SW/NW/SW				Section 33			TWP 5S		RNG (E/W) 39W				Acres Attributed			
ield PRAIRIE STAR				Reservoir NIOBRARA					Gas Gathering Conn KINDER MORGAN							
Completion Date /2/2011			Plug Back Total Depth 1507'					Packer Set at								
asing Size Weight ", 4-1/2" 17#, 11.6#				Internal Diameter 9-7/8", 6-1/4"			Set at 397', 1550'		Perforations 1342'				то 1365'			
Tubing Siz 2-3/8"	ubing Size Weight -3/8" 4.7#				Internal Diameter 1.995			Set at 1379'		Perforations			٦	То		
Type Com Single (g) (De	escribe)	,	Type Flui Saltwa		ction			Pump U Yes	Jnit or	Traveling	Plunger?	Yes /	/ No	
		(Anr	nulus / Tubing)		% C	arbon D	ioxid	e		% Nitro	gen		(Gas Gra	vity - C	à,
Vertical D	epth(H	1)				F	ressi	ure Taps				_	((Meter R	lun) (Pi	rover) Size
Pressure (Buildu	o: :	Shut in	8 2	13 at 9	:00	{	(ÄM)` (PM)	Taken			20	at		(AM) (PM)
Well on Li			Started 10/2	9 20	13 at 9			, , ,					at			
		É	<u>.</u>			OBSE	RVEC	SURFAC	E DATA		,		Duration o	of Shut-i	_{n_24}	Hours
Static / Dynamic Property	amic Size		Circle one: Meter Prover Pressure psig (Pm)	Pressure Differential in Inches H ₂ 0	Temperature Ten		ad iture	Casing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Duration (Hours)		Liquid Produced (Barrels)		
Shut-in								73	рыа	parg						
Flow																
						FLOW	STRE	AM ATTR	IBUTES				· · · · · · · · · · · · · · · · · · ·			
Plate Coefficci (F _b) (F _p Mcfd	ent ,)	1 1		Press Extension Pmxh	Gravity Factor F _g		Flowing Temperature Factor F _{tt}		F	Deviation Factor F _{pv}		Metered Flow R (Mcfd)		GOR (Cubic Fee Barrel)		Flowing Fluid Gravity G _m
D 12	i		(5.12		(OPEN FL	• •			•						= 0.2	07
$(P_c)^2 = $ $(P_c)^2 - (F_c)^2 - ($	r I		°_c)²- (P_u)²	thoose formula 1 or 2. 1. P _c ² -P _s ² 2. P _c ² -P _s ² wided by: P _c ² -P _s ²	LOG of formula 1. or 2. and divide		%	Backpressure Curve Slope = "n"		e n x	LOG		Antilog	(P _a)²	Open Flow Deliverability Equals R x Antilog (Mcfd)	
<u> </u>										1						
Open Flov	I	Mcfd @ 14.65 psia			Deliverability			Mcfd @ 1				14.65 psia				
		•	d authority, on		• •			•				•		t he ha		_
e facts st	tated ti	herei	in, and that sai	d report is true	and correc	t. Exec	uted t	this the _1	8th	day of _	DECE	MBER				20 <u>13 </u>
			Witness (if	any)				-			<u></u>	Fore	Company			C 3 0 20
															1 11	

exem and the correct of equ	declare under penalty of perjury under the laws of the state of Kansas that I am authorize that status under Rule K.A.R. 82-3-304 on behalf of the operator NOBLE ENERGY, INC. That the foregoing pressure information and statements contained on this application form ect to the best of my knowledge and belief based upon available production summaries and suipment installation and/or upon type of completion or upon use being made of the gas well hereby request a one-year exemption from open flow testing for the NIPPS 13-33B	are true and lease records
	well 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	
	further agree to supply to the best of my ability any and all supporting documents deemed as necessary to corroborate this claim for exemption from testing.	l by Commission
Date:	: 12/18/2013	
	Signature: Aan Muse - Reynot Title: REGULATORY ANALYST III	<u>U</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 0 2013