Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test	t:					(See Instr	ucti	ons on Re	verse Side	∍)						
	en Flo liverab					Test Date	e:						o. 15 3-21170-0	00-00			
Company Noble Er		Inc							Lease Keller F	arms		·			44-13	Well Nu	mber
				Section 13				TWP 2S)	Acres Attributed					
Field Cherry C	Creek					Reservoir Niobrara					Gas G South		ring Conn	ection			
Completio	on Dat	е				Plug Bac		epth	n	-	Packer						
12/3/200 Casing S			Wei	aht		1431' Internal [Diameter		Set a		Per	forat	tions		То		···
7", 4-1/2" 17#, 11.6#			9-7/8", 6-1/4"			190'	1246'			1286'							
Tubing Size Weight 2-3/8" 4.7#			Internal Diameter 1.995				Set at 1198'			Perforations			То				
Type Completion (Describe) Single (gas)			Saltwa	Type Fluid Production Saltwater				Pump Unit or Traveling Plunger? (**) / No									
Producing Tubing	g Thru	(Anr	nulus / Tubi	ng)		% C	arbon Di	ioxic	ie		% Nitro	gen	1		Gas Gr	avity - G	ag .
Vertical D	epth(F	l)					P	ress	sure Taps						(Meter l	Run) (Pr	over) Size
Pressure	Buildu	•	Snut in	/25	2	13 at 9	:30	((AM) (PM)	Taken			20	at		(AM) (PM)
Well on Line: Started 11/2			/26	20 13 at 12:30				(AM) (PM)	(AM) PM Taken			20 at			(AM) (PM)		
							OBSER	VE	D SURFAC	E DATA				Duratio	n of Shut-	_{in_27}	Hours
Static / Dynamic Property	Dynamic Size		Meter Prover Pressure		Pressure Differential in Inches H ₂ 0	Flowing Temperature t	1	Temperature (P _w)		Pressure	Tubing Wellhead Pr (P _w) or (P ₁)		Pressure		Duration Liq (Hours)		d Produced Barrels)
Shut-In			F-19 (* **	,	2				psig 132	psia	psig		psia		·		
Flow																	
							FLOW S	STR	EAM ATTR	IBUTES	<u>'</u>						
Plate Coefficcient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia			Press Extension ✓ P _m xh	Gravity Factor F _g		Flowing Temperature Factor F _r		F	Deviation Factor F _{pv}		Metered Flow R (Mcfd)		GOR (Cubic Fee Barrel)		Flowing Fluid Gravity G _m
				!		(OPEN FL	OW) (DE	LIVI	ERABILITY) CALCUI	LATIONS	 ;		<u> </u>	/D.\	2 00	07
(P _c) ² =		_:	(P _w) ²	_	<u> </u>	P _d =				- - 14.4) -			:		(P _d)	2 = 0.2 2 =	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²			ose formula 1 or 2 1. $P_c^2 \cdot P_a^2$ 2. $P_c^2 \cdot P_d^2$ thed by: $P_c^2 \cdot P_a^2$	LOG of formula 1. or 2. and divide	formula 1. or 2. and divide P2.P2		Backpre Slo As Stand	n x LOG		Ar	Antiliod 1		en Flow verability R x Antilog (Mcfd)		
			·														
Open Flor					Mcfd @ 14.	65 nsia			Deliverat	nility				Mefd @	14.65 ps	ja ia	
		ianer	d authority	on h	ehalf of the		states tha	at he			to make	the					ledge of
		Ü	,,		report is true	• •			•				•				20 13
			,								·				K		WICHIT
			Witnes					_	-	*	4 41 4			Company		DEC	3 1 2013
			For Co	nmissi	on								Che	cked by		RE	CEIVED

	er penalty of perjury under the laws of the state of Kansas that I am authorized to request er Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc
correct to the best of equipment insta I hereby reque	oing pressure information and statements contained on this application form are true and of my knowledge and belief based upon available production summaries and lease records flation 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 44-13 bunds 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 to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
Date: 12/27/13	<u> </u>
	Signature: Cleuf Johnson 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. 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