KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(See Instruct	ions on Re	verse Side	e)				
= :	en Flo liverab				Test Date	9:				√o. 15 23-21198-0	00-00		
Company Noble Energy Inc					Lease Keller Farms							Well Number 43-18	
County Cheyenne			Loca E2-W	tion 2-NE-Se	Section 18		TWP 2S		RNG (E/W) 38W		Acres Attributed		
Field Cherry Creek				Reservoir Niobrara			Gas Gathering Connection Southern Star						
Completion Date 1/8/2009			Plug Bac 1442'	Plug Back Total Depth 1442'			Packer Se						
Casing Size 7", 4-1/2"			Weig 17#,	iht 11.6#	Internal Diameter 9-7/8", 6-1/4"		Set at 252', 1483'		Perforations 1282'		то 1320'		
Tubing Size 2-3/8"			Weight 4.7#		Internal Diameter 1.995		Set at 1263'		Perforations		То		· · · · · · · · · · · · · · · · · · ·
Type Completion (Descri Single (gas)			escribe)		• •	Type Fluid Production Saltwater		<u></u>		Pump Unit or Traveling Plum		lunger? (Tes / No	
		(Anr	nulus / Tubi	ng)	% C	Carbon Dioxi	de		% Nitroge	n	Gas Gr	avity - (à
Vertical D	Depth(H	H)				Pres	sure Taps				(Meter	Run) (Pi	rover) Size
Pressure	Buildu	ıp; ;	11 Shut in1	/25	13 _{at} 1	0:30	(AM) (PM)	Taken		20	at	(AM) (PM)
Well on Line:			Started 11	1/26 20 13 at 10:30		0:30	(PM) Taken		20		at	_ at (AM) (PM)	
						OBSERVE	D SURFAC	E DATA			Duration of Shut-	in 24	Hours
Static / Dynamic Property	ynamic Size		Circle one Meter Prover Pres psig (Pm	Differential in	lemperature Tempera		I Wallhoad Praceura		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Duration Liqu (Hours)		d Produced Barrels)
Shut-In				,			133	рыа .	paig	psia			
Flow													
						FLOW STR	EAM ATTE	RIBUTES					
Plate Coefficcient (F _b) (F _p) Mcfd		Pro	Circle one: Meter or over Pressure psia	Press Extension P _m xh	Gra Fac F	or Temperature		F	Deviation Metered R Factor R (Mcfc		w GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m
(P _c) ² =		_:	(P _w)²	=:	•	OW) (DELIV		-	LATIONS + 14.4 =	:		2 = 0.2 2 =	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		$ (P_w)^2 = $ $ (P_c)^2 \cdot (P_w)^2 $ $ dt$		Choose formula 1 or. 1. P _c ² - P _c ² 2. P _c ² - P _d ² divided by: P _c ² - P _d	LOG of formula 1, or 2, and divide by:	P _c ² · P _w ²	Backpressure Curv Slope = "n" or Assigned Standard Slope		n v	og [Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flo	w		· · · · · ·	Mcfd @ 14	.65 psia		Delivera	bility			Mcfd @ 14.65 ps	 ia	
		-	•								ort and that he ha		
the facts s	stated t	therei	in, and that	said report is tru	e and correc	ct. Executed	I this the _2	27	day of	ecember	K		₂₀ <u>13 </u>
			Witnes	s (il any)				-		For	Company		3 1 2013
			For Cor	nmission					- •	Che	cked by		CEIVED

exempt status und and that the foreg correct to the bes	er penalty of perjury under the laws of the state of Kansas that I am authorized to request ler Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Including 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
I hereby requ	allation 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 43-18 ounds 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 y to corroborate this claim for exemption from testing.
	Signature: Clay 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 catendar 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 with the signed and dated on the front side as though it was a verified report of annual test results.