Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

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= .	en Flov liverabi					Test Date	9 :				I No. 15 -023-21169-0)∩ - ∩∩	
Company Noble Energy Inc						Lease Keller Farms			10	-023-21109-0	43-13	Well Number	
County Location Cheyenne NW-SE-NE-SE				Section 13		TWP	TWP 2S		/W)	Acres Attributed			
Field Cherry Creek				Reservoir Niobrara		20		39W Gas Gathering Connection Southern Star		ection	RECEIVE DEC 2 0 2 KCC WICHI		
Completion Date				Plug Back Total Depth			Packer Set at			DEC 20 2			
12/4/2008 Casing Size Weight				1375' Internal [Set a		Perforations		То	KCC Mou		
7", 4-1/2" 17#, 11.6# Tubing Size Weight			#	9-7/8", Internal [143' Set a	t', 1419' 119 at Perf		orations	1240'	- O WICH		
2-3/8" 4.7#				1.995		126					<u> </u>		
Type Completion (Describe) Single (gas)					Type Fluid Production Saltwater				Pump Unit or Traveling Plunger? Yes / No Yes				
Producing Fubing	Thru	(Anr	rulus / Tubi	ng)		% C	arbon Dio	kide	,	% Nitro	gen	Gas G	ravity - G _g
/ertical D	epth(H	l)		,			Pre	ssure Taps				(Meter	Run) (Prover) Size
ressure	Buildu	p: ;	Shut in 10)/11	20	12 at 7	:45	. (AM) (PM)	Taken		20	at	(AM) (PM)
Well on Line:			Started 10	/12	20	12 at 7	12 at 7:45		PM) Taken		20	at	(AM) (PM)
							OBSERV	ED SURFAC	E DATA			Duration of Shut	t-in 24 Hours
Static / Dynamic Property	mic Size		Circle one: Meter Prover Pressure psig (Pm)		Pressure Differential in nches H ₂ 0	Flowing Temperature t	Well Head Temperatur t	e Wellhead (P _w) or (P	Casing Wellhead Pressure (P _w) or (P _t) or (P _c)		Tubing ead Pressure or (P ₁) or (P _c)	Duration (Hours)	Liquid Produced (Barrels)
Shut-In			perg (t iii	- "	101100 1120			psig 83	psia	psig	psia	. ,	
Flow													
	- 1						FLOW ST	REAM ATTR	IBUTES		1		
Plate Coeffiecient (F _b) (F _p) Mcfd		Pro	Circle one: Meter or Prover Pressure psia		Press Extension P _m x h	Fac	Gravity Factor F		Fi	viation actor F _{pv}	Metered Flov R (Mcfd)	v GOR (Cubic F Barrel	eet/ Fluid Gravity
		· · · · · · · · · · · · · · · · · · ·										<u> </u>	
P _c) ² =		_:	(P _w)²	=	:	•	OW) (DELI	VERABILITY _%) CALCUI ² 。- 14.4) -		:) ² = 0.207) ² =
	P _a) 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 by:		Backpressure Curv Slope = "n" or Assigned Standard Slope		l n v	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
Open Flor	w			М	lcfd @ 14.	65 psia		Deliverab	ility			Mcfd @ 14.65 ps	sia
		•	•					•			•	rt and that he h	as knowledge of, 20 12
			Witness	(if and			<u>.</u>	-			For	Company	
			WILLIESS	, (ii cory)							7 07 0	mainty	

I declare 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 foregoing pressure information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon available production summaries and lease records of equipment installation and/or upon type of completion or upon use being made of the gas well herein named. I hereby request a one-year exemption from open flow testing for the Keller Farms 43-13 gas 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 I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.
Date:12/17/2012
Signature: Title: Regulatory Analyst

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.