KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	ľ.					(See In:	structi	ons on Re	verse Side	e)					
= :	en Flo liverab					Test Date	9 :					I No. 15 -023-21026-0	00-00			
Company Noble E					Lease Keller Farms				Well Number 23-7				lumber			
County Location Cheyenne NE-SE-NE-SW					Section 7				TWP 2S		(/W)	1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Acres Attributed			
Field Cherry Creek					Reservoi Niobrari						thering Conn ern Star	ection	DEC 2 0 20 1248' KCC WICHI			
Completion Date 11/19/2008					Plug Bac 1385'	k Total	Dept	h		Packer Set at			DEC 2 0 20			
Casing S 7", 4-1/2				Weight 17#, 9.5#			Internal Diameter 9-7/8", 6-1/4"			Set at 209', 1428'		Perforations 1212'		To 1248' KCC WICHI		
Tubing Si 2-3/8"	ze		_	Weight 4.7#			Internal Diameter 1.995			Set at 1262'		Perforations		То		
Type Completion (Describe) Single (gas)					Type Fluid Production Saltwater					Pump Unit or Traveling yes		Plunger? Yes / No				
Producing Thru (Annulus / Tubing) Tubing					% C	% Carbon Dioxide				% Nitro	gen	Gas G	Gas Gravity - G _g			
Vertical Depth(H)							Pressure Taps				(Meter Run) (Prover) Size					
Pressure	Buildu	p:	Shut in	/18	2	0_12 at_1	0:00		(AM) (PM)	Taken		20	at		(AM) (PM)	
					0 <u>12</u> at <u>1</u>	10 10:00			Taken 2							
							OBSE	RVE	SURFAC	E DATA			Duration of Shu	t-in_24	Hours	
Static / Dynamic Property	Orifi Siz (inch	e	Circle one: Meter Prover Press psig (Pm	Diffe	essure erential in es H _o 0	Flowing Temperature t	Well H Temper t		Casing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Tubing Wellhead Pressure (P _w) or (P _t) or (P _o) psig psia		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In					•				72	pola	paig	psia				
Flow																
				Υ			FLOW	STRE	EAM ATTR	IBUTES					· · · · · · · · · · · · · · · · · · ·	
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension ✓ P _m x h		Gravity Factor F _g		Flowing Temperature Factor F _{f1}		Fa	viation actor F _{pv}	Metered Flov R (Mcfd)	v GOR (Cubic F Barrel	eet/	Flowing Fluid Gravity G _m	
P _c) ² =		_ :	(P _w) ² :	=	:	(OPEN FL	OW) (D) CALCUL ² c - 14.4) +		:) ² = 0.3	207	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(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	formula 1. or 2. and divide p 2 p 2		Backpressure Curve Slope = "n"or Assigned Standard Slope		" * 106		Antilog	Antilog Open Flow Deliverability Equals R x Antile (Mcfd)		
Open Flor	<u> </u>			Mefe	i @ 14.	65 psia			Deliverab	ility		<u> </u>	Mcfd @ 14.65 ps	sia		
												. 1	rt and that he h		- 	
C 14013 5	uicu II	io (C)	n, and that s	aiu ropul	cia tiub	and conde	" EXAC	Juieu I	มกร เกษ <u></u> -	······	uay UI			,	. <u></u> .	
			Witness	(if any)			***		-			For C	company	· /		
	·		For Com	mission				_	_			Chec	ked by			

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 theKeller Farms 23-7
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.