KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:	:					(See Insi	tructio	ons on Re	verse Side	9)						
Open Flow					Test Date: API No. 15												
Deliverabilty				lesi Dale					15-023-21125-00-00								
Company Noble Energy Inc					Lease Kelle				r Farms				Well Number 23-12				
County Location Cheyenne S2-N2-NE-SW				Section 12			TWP 2S		RNG (E.	RNG (E/W) 39W		,	Acres Attributed RECEIVE				
Field Cherry Creek				Reservoir Niobrara					Gas Gathering Connect Southern Star			ection		EC 0.5 20			
Completion Date 10/8/2008				Plug Bac 1455'	k Total I	Depth	1	Packer Set at									
Casing Size Weig 7", 4-1/2" 17#,					#	Internal Diameter 9-7/8", 6-1/4"			Set at 198', 1489'		Perforations 1248'			т _о 1280'			
Tubing Size Weight 2-3/8" 4.7#					Diameter	iameter Set at 1311'			Perforations		То						
					Type Fluid Production Saltwater				Pump Unit or Traveling F			Plunger? Yes / No					
Producing Thru (Annulus / Tubing)					% C	% Carbon Dioxide				% Nitrogen			Gas Gra	Gas Gravity - G			
Tubing Vertical D	epth(h	1)				*****		Pressi	ure Taps					(Meter F		rover) Size	
Pressure	Buildu	ın.	Shut in	29	21	12 at 1	:00		(AM) (PM)	Taken			20	at		(AM) (PM)	
•				12 1:00			(AM) (PM)	$\stackrel{\smile}{\sim}$			20 at						
							OBSE	RVEC	SURFAC	E DATA				Duration of Shut-	in_24	Hours	
Static / Dynamic	namic Size coperty (inches		e Prover Pressur		Pressure Differential in	Flowing Temperature t			Casing Wellhead Pressure (P _w) or (P _c) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P ₂)		Duration (Hours)		Liquid Produced (Barrels)		
Shut-In					Inches H ₂ 0		t .		psig 72	psia	psig	Ť	psia		╁		
Flow									. –					•	 		
			l .			·····	FLOW	STRE	EAM ATTR	RIBUTES					. 		
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia			Press Extension	Gravity Factor F _g		Flowing Temperature Factor F _{II}		Fa	Deviation Factor F _{pv}		tered Flow R (Mcfd)	GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m	
(P) ² =			(P _w) ²	=		(OPEN FL		ELIVE		<mark>() CALCUI</mark> P _x - 14.4) +			:	(P _a) (P _d)	² = 0.2	207	
$(P_c)^2 = {(P_c)^2 - (P_a)^2}$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		Cho	ose formula 1 or 2: 1, P _c ² - P _d ² 2, P _c ² - P _d ² ted by: P _c ² - P _d ²	LOG of formula 1. or 2. and divide by:			Backpressure Slope = "		ve n x LOG			Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
				UIVA	790 DY. 1 c - 1 w			<u>1</u>									
Open Flo	w				Mcfd @ 14.	65 psia			Deliveral	bility			l	Mcfd @ 14.65 psi	a		
		•	•		ehalf of the				-				•	rt and that he ha		wledge of 20 12	
ne iacis s	iaieū 1	urere	iii, anu inai :	odIU	raport is true	ани сопес	n. EXEC	aleu i	<u></u>		uay UI				<u> </u>		
			Witness	(if an	у)			_	•				For C	Company		Acros	
			For Com	missi	on				-				Chec	cked 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 the Keller Farms 23-12
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:
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.