KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:					((See Instruc	ctions on Re	verse Side	9)					
·	oen Flo eliveral					Test Date	e:				I No. 15 -023-2100	4-00-00			
Company Noble		gy,	Inc.					Lease Feiker	t			2	2-1	ell Number	
County Cheyenne			Location NW-SE-NW			Section 1		TWP 4S		RNG (E/W) 42W		Acres Attribut		ted	
Field Cherry	Cree	ek N	Niobrar	a gas	area	Reservoi Niobra					thering Conr r Morgan		e Con	npressor	
Completion Date 6/16/2008					Plug Bad 1598'	oth		Packer : n/a	Set at						
Casing Size 7", 4-1/2"			Weight 17#, 11.6#			Internal I 9-7/8",		Set at 273', 1639'		Perforations 14		457' ^{To} 1		1494'	
Tubing Size 2-3/8"			Weight 4.7#			Internal Diameter 1.995"			Set at 1,514'		Perforations		0		
Type Completion (Describe) Single (Gas)					Type Flui Saltwa	d Productio t er	n	Pump Unit or Tra No		nit or Travelin	g Plunger?	No			
Producing Tubing	g Thru	ı (An	nulus / 1	ubing)		% (arbon Diox	kide		% Nitrog		G	as Grav	vity - G _g	
Vertical D	Depth(I	H)					Pres	ssure Taps		•		(N	leter Ru	ın) (Prover)	Size
Pressure	Buildu	•	Shut in .		2	08 at		(AM) (PM)	Taken		20) at		(AM) (F	PM)
Well on Line:			Started 7/		2	0 <u>08</u> at 1	0:10	(PM)	Taken		20	at		(AM) (PM)	
							OBSERVE	ED SURFAC	E DATA		,	Duration of	Shut-in		Hours
Static / Orifice Dynamic Size Property (inches)		ze	Meter Prover Pressure		Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In				,		•		205							
Flow															
51		-	Circle one:				FLOW STE	REAM ATTR	BUTES		<u>,</u>			- -	
Plate Coeffiecient (F _b) (F _p) Mcfd		Meter or Prover Pressure psia		ure	Press Extension P _m x h	Grav Fact F _g	or	Temperature Factor		viation Metered Flor actor R F _{pv} (Mcfd)		GOR (Cubic Fee Barrel)		Flowing Fluid Gravity G _m	
				<u>,</u>	· come	(OPEN FLO	OW) (DELIV	/ERABILITY) CALCUL	ATIONS			(P) ² =	: 0.207	
(P _c) ² =		:	(P	w)2 =	:	P _e =		% (F	c - 14.4) +	14.4 =	·		(P _a) 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. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ fied by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide by:		Backpressure Curve Slope = "n" or Assigned Standard Slope		n x 10G		Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)	
						ļ									
Open Flov	l				Mcfd @ 14.0	65 psia		Deliverab	ility			Mcfd @ 14.6	35 psia		
The	ındere	ianec	d authoris	hu on h			tataa that b				ne above repo			lan avala alaa	
			n, and th	at said	report is true		ENERG	this the	STP	day of	Febru	ay		, 20 🖰	
				ness (if any		FEB	9 2009	-	<i></i>	_llv	mer	ay I	net	f	
			rof	ouninissi0	,,		ation divisi Hita, ks	ЮN		0		скеа ву			

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 Feikert 22-1
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: 2 18/09
Signature: <u>Jumple</u> <u>Bawett</u> 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.