KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(See Instruct	nons on Hev	erse Siae	!)					
=	en Flo eliverat				Test Date	: :				No. 15 023-20978-0	0-00			
Company Noble Energy, Inc.						Lease Rueb Farm					23-16	Well Number 23-16		
County Location Cheyenne NE-SW					Section 16		TWP 3S		RNG (E/W) 42W		Acres Attributed			
Field Cherry Creek Niobrara Gas Area				Reservoir Niobrara					hering Conne Creek via Arm					
Completion Date 4/21/2008				Plug Bac 1698'	Plug Back Total Depth 1698'			Packer S n/a	Set at					
Casing S 7", 4-1/			Weigh 17#, 1	Internal Diameter 9-7/8", 6-1/4"		Set at 320', 1741'		Perforations 1534'		то 1576'				
Tubing Size Weight			t	Internal [Diameter	Set a	Set at Pe		forations To					
Type Completion (Describe) Single (Gas)					Type Fluid Production Saltwater			Pump Unit or Traveling Plunger? Yes / No						
Producing Thru (Annulus / Tubing) Annulus				% C	% Carbon Dioxide				jen	Gas Gra	Gas Gravity - G _g			
Vertical D		1)				Pres	sure Taps				(Meter F	lun) (Pr	over) Size	
Pressure	Builde	n.	Shut in	, , ,	0 10 at 1	2:00	(AM) (PM)	Taken		20	at	(AM) (PM)	
Well on L			Started 3/3/ 20			10 1:30		· / 🕥				at (Al		
						OBSERVE	D SURFACE	DATA			Duration of Shut-i	_n _25	Hours	
Static / Dynamic Property	amic Size perty (inches)		Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure $(P_w) \text{ or } (P_t) \text{ or } (P_c)$		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)		
Shut-In			paig (r iii)	mones 11 ₂ 0			psig 205	psia	psig	psia	KANSAS COR	ECEIV PORATIC	N COMMISS	
Flow											APR	29	2010	
						FLOW STR	EAM ATTRI	BUTES		,,,,,,,,	CONCED	 		
Plate Coeffiecient (F _b) (F _p) Mcfd		Pro	Circle one: Meter or over Pressure psia	Press Extension √ P _m x h	Gravity Factor F _g		Flowing Femperature Factor F _{ft}	mperature Factor		Metered Flow R (Mcfd)	GOWICHITA (Cubic Feet/ Barrel)		N PlwingOi KS luid Gravity G _m	
(P _c) ² =		_:	(P _w) ² =	:	(OPEN FL		'ERABILITY) % (P	CALCUL + (14.4 - _ع		:	(P _a) ² (P _d) ²	= 0.20)7	
(P _c) ² - (or (P _c) ² - (l			P _c) ² - (P _w) ²	Choose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide	P _c ² -P _w ²	Backpressure Curve Slope = "n" or Assigned Standard Slope		l n x	roe	Antilog	Deli Equals	Open Flow Deliverability juals R x Antilog (Mcfd)	
Open Flow			Mcfd @ 14.65 psia			Deliverability		Mcfd @ 14.65 psia						
		-	-	n behalf of the					o make the		t and that he has		edge of 20	
			Witness (i	any)			_	y	ZVVILLY	For Co	ompany			
	-		For Comm	ission						Check	red 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 Rueb Farm 23-16
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: 4/26/2010
Signature: Jumiler Barnett 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.