## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(	See Instruc	tions on Re	verse Side	e)					
Open Flow Deliverabilty					Test Date:				API No. 15 15-023-20978-00-00					
Company Noble Energy, Inc.					Lease Rueb Farm			arm	Well Number 23-16				ber	
County Location Cheyenne NE-SW					Section 16		TWP 3S		RNG (E/W) 42W		Acres Attributed			
Field Cherry Creek Niobrara Gas Area					Reservoir Niobrara			Gas Gathering Connection Bitter Creek via Armel DP						
Completion Date 4/21/2008				Plug Back Total Depth 1698'			Packer Set at n/a							
Casing S 7", 4-1/			Weight 17#, 1		Internal Diameter 9-7/8", 6-1/4"		Set at 320', 1741'		Perforations 1534		to 1576' MC//X			
Tubing Si	ize		Weight		Internal Diameter Set at			at	Perfo	rations	То		1/1/24	
Type Con Single (	-	ı (Do	escribe)		• •	Type Fluid Production Saltwater				Pump Unit or Traveling Plunger? Yes / No				
Producing Thru (Annulus / Tubing) Annulus				% Carbon Dioxide				% Nitrogen Gas Gravity - G <sub>g</sub>						
Vertical C	·	)				Pres	sure Taps				(Meter F	Run) (Prov	/er) Size	
Pressure	Buildu	 o:	Shut in2/24	<del> </del> /2	09 at 7	:50	(PM)	Taken		20	at	(AI	——— И) (РМ)	
Well on L	ine:		Started 2/25	5/ 29	0 <u>09</u> at <u>7</u>	:50	(PM)	Taken	<u>.</u>	20	at	(AI	√I) (PM)	
	·					OBSERVE	D SURFAC	E DATA			Duration of Shut-	_24	Hours	
Static / Dynamic Property	namic Size		Circle one: Meter Prover Pressui psig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Well Head Temperature t		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> ) psig psia		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> ) psig psia		Duration (Hours)		Produced rrels)	
Shut-In							200	pola	poig	pole	· · · · · · · · · · · · · · · · · · ·			
Flow														
	-					FLOW STR	EAM ATTR	IBUTES	r					
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd			Circle one: Meter or ver Pressure psia	Press Extension ✓ P <sub>m</sub> x h	Grav Fac F	tor 1	Temperature Factor		riation Metered Flow lector R (Mcfd)		GOR (Cubic Fer Barrel)	et/	Flowing Fluid Gravity G <sub>m</sub>	
<b></b>					(005) 51	000 (05) 10	50.400.170	<u> </u>	4710110					
(D.)2 -			(P <sub>w</sub> ) <sup>2</sup> =_		•	OW) (DELIV		•				= 0.207		
$ (P_c)^2 = \underline{ (P_c)^2 - (P_a)^2 } $ $ (P_c)^2 - (P_d)^2 $		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		2. $P_c^2 - P_a^2$ Tivided by: $P_c^2 - P_a^2$	LOG of formula 1. or 2.	P <sub>c</sub> <sup>2</sup> · P <sub>w</sub> <sup>2</sup>	_% (P <sub>c</sub> - 14.4) -  Backpressure Curve Slope = "n" or Assigned Standard Slope		n x l OG		(P <sub>d</sub> ) <sup>2</sup> Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
				, received by Fig. 1.	5,.	<u> </u>	J.C.					<u></u>		
Open Flow Mcfd @ 14.65 psia					65 psia	Deliverability			Mcfd @ 14.65 psia					
	•		-	behalf of the				-4		eptember CCe	t and that he ha		09 .	
			Witness (if	···			-				mpany			
			For Commis	ssion			_			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: 9/1/2009  Signature: Regulatory Specialist

## 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.