KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST (See Instructions on Reverse Side)

Type Test:

Open Flow Deliverabilty				Test Date	Test Date:				API No. 15 15-023-20797~00-00				
Company Noble Er		nc.				Lease Raile			7.7.0°003011h	21-31	Well No	umber	
County Location Cheyenne NE NW			Section 31			TWP 3S		RNG (E/W) 41W		Acres Attributed			
Field Cherry Creek				Reservoi Niobrar				Gas Gathering Conn- Southern Star/Kind				RECEIVE	
Completion Date 10/9/2007				Plug Bac 1641	ck Total Dep	th	Packer Set a		Set at			DEC 05 2 CC WICH	
Casing Size Weight 7", 4+1/2" 17#, 9.5#			Internal 9+7/8"	Diameter , 6+1/4"		Set at 301', 1686'		Perforations 1484		To KC(
Tubing Si 2+3/8"	Tubing Size Weight		•	Internal Diameter 1.995		Set at 1570		Perforations		То			
Type Completion (Describe) Single (gas)				Type Fluid Production Saltwater			Pump Ui	nit or Traveling	g Plunger? Yes	/ No			
Producing Thru (Annulus / Tubing) tubing				Carbon Diox	de			jen	Gas Grav		vity - G _g		
-	Vertical Depth(H)				Pressure Taps			(Meter Run) (Prover) Size					
Pressure	Buildup:	Shut in	7 30	20_12_at_2	:30	(AM) (PM)	Taken		20	at		(AM) (PM)	
Well on Li	Well on Line:				12 at 3:45				20	at		(AM) (PM)	
		·			OBSERVE	D SURFACE	E DATA			Duration of Shut	-in_25	.25 Hours	
Static / Dynamic Property	Orifice Size (inches)	Meter Prover Pres	Differential	Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _r) or (P _c)		Duration Liqu (Hours)		id Produced Barrels)	
Shut-In			,			psig 100	psia	psig	psia				
Flow													
					FLOW STE	EAM ATTRI	BUTES						
Plate Coeffiecie (F _b) (F _p Mcfd	,) /	Circle one: Meter or Prover Pressure psia	Press Extension ✓ P _m x h	Grav Fac F	tor	Flowing Temperature Factor F _{II}	Fa	viation actor - _{pv}	Metered Flor R (Mcfd)	w GOR (Cubic Fo Barrel	eet/	Flowing Fluid Gravity G _m	
(P _c) ² =		(P _w) ²	Choose formula 1 or	P _d =	. ,	ERABILITY)	CALCUL		;) ² = 0.2	207	
(P _c) ² - (P		(P _c) ² - (P _w) ²	1. P _c ² - P _c ² 2. P _c ² - P _d divided by: P _c ² - P	LOG of formula 1. or 2.		Backpressure Curve Slope = "n" or Assigned Standard Slope		n x i	og 📗	Antilog	Del Equals	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flow	v		Mcfd @ 14	1.65 psia		Deliverabi	ility			Mcfd @ 14.65 ps	sia		
			on behalf of the						ovember	ort and that he ha		rledge of 20 <u>12</u> .	
		Witness	s (if any)			_			For	Company			
		For Con	nmission						Che	cked by		-	

exempt status und and that the foreg correct to the bes of equipment insta I hereby requ	er penalty of perjury under the laws of the state of Kansas that I am authorized to request ler Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy, Inc. going pressure information and statements contained on this application form are true and to f my knowledge and belief based upon available production summaries and lease records allation and/or upon type of completion or upon use being made of the gas well herein named. est a one-year exemption from open flow testing for the Raile 21-31 ounds that said well:
_	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 e to supply to the best of my ability any and all supporting documents deemed by Commission y to corroborate this claim for exemption from testing.
Date: 11-30-201	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.