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

Type Test	t:			(3	See Instructi	ions on Reve	erse Side	=				
Open Flow Deliverabilty				Test Date:				API No. 15 023-21054-00-00				
Company Noble Er		nc				Lease Zimbelma	an			34-6	/ell Number	
County Location Cheyenne E2-SW-SW-SE			Section 6	A	TWP 4S		RNG (E/W) 41W		Acres Attributed			
Field Cherry Creek Niobrara Gas Area				Reservoir Niobrara					nering Connection	ction ampe Compressor		
Completion Date 8/14/2008			Plug Back 1563'	Total Depth	า		Packer S N/A	et at				
		Weight 17#, 1		Internal Diameter 9-7/8", 6-1/4"		Set at 210', 1605'		Perforations 1352'		то 1390'		
Tubing Size Weight N/A			Internal D	iameter	Set at		Perforations		То			
Type Completion (Describe) Single (Gas)			Type Fluid Production Saltwater				Pump Un No	it or Traveling I				
Producing	Producing Thru (Annulus / Tubing)			% Carbon Dioxide				% Nitrogen		Gas Gra	Gas Gravity - G <sub>g</sub>	
Annulus Vertical D					Press	sure Taps			<u> </u>	(Meter R	un) (Prover) Size	
Pressure	Buildup:	Shut in	)/2	09 at 8:	30 (	(AM) (PM)	Taken		20 .	at	(AM) (PM)	
Well on L	•	Started 2/11		09 at 2:		(AM) (PM)	Taken		20 .	at	(AM) (PM)	
					OBSERVE	D SURFACE	DATA			Duration of Shut-i	n 31 Hours	
Static / Dynamic Property	Orifice Meter Differentia		Pressure Differential in Inches H <sub>2</sub> 0	t t t		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> ) psig psia		Tubing  Wellhead Pressure  (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )  psig psia		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In			2			220						
Flow							DUTES					
	T	Circle one:	_			Flowing				000	Flowing	
Plate Coeffied (F <sub>b</sub> ) (f Mcfd	cient F <sub>p</sub> )	Meter or Prover Pressure psia	Press Extension P <sub>m</sub> x h	Grav Fac F	- 1 7	Factor	F	viation actor F <sub>pv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Fed Barrel)	et/ Fluid Gravity G <sub>m</sub>	
/D \2 -		.: $(P_w)^2 =$		(OPEN FL		<b>'ERABILITY)</b> % (P		LATIONS + 14.4 =	:	(P <sub>a</sub> ) <sup>2</sup> (P <sub>d</sub> ) <sup>2</sup>	2 = 0.207 2 =	
$(P_c)^2 = $ $(P_c)^2 - (P_a)^2$ or			1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup>	ormula 1 or 2: P 2 - P 2 LOG of formula		Backpressure Curve		re n x	LOG	Antilog	Open Flow Deliverability Equals R x Antilog	
(P <sub>c</sub> ) <sup>2</sup> - (	(P <sub>d</sub> ) <sup>2</sup>		2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w$	and divide	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>		signed ard Slope				(Mcfd)	
Open Flo	Flow Mcfd @ 14.65 psia				Deliverab	ility	Mcfd @ 14.65 psia					
		gned authority, o	n behalf of the	Company,	states that h	ne is duly au	ıthorized	to make t	he above jepo	rt and that he ha		
the facts	stated th	erein, and that sa	aid report is tru	e and corre		this the 1s	st /	day of _	December	e pl	, 20 <u>09</u>	
		Witness (	f any)	KAN	SAS CORPOR	ATION COMMI	salch (	·VIA	For C	company		
		For Comm	nission		DEC 0	4 2009			Chec	ked by		

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to requexempt 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 a correct to the best of my knowledge and belief based upon available production summaries and lease record equipment installation and/or upon type of completion or upon use being made of the gas well herein named the laws of the gas well herein named the laws of the gas well on the grounds that said well:	and ords
(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 Comm staff as necessary to corroborate this claim for exemption from testing.	ission
Date: 12/1/2009  Signature:   August Joseph	_
Title: 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.