KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:				(See Instru	ctions on Re	everse Side	e)				
Open Flo				Test Date	9 :				No. 15 3-20798-00-0	00		
Company Noble Energy, Inc.			Lease Raile				41			Well Number 1-31		
County Location Cheyenne NE-NE			Section 31		TWP 3S			W)	Acres Attributed			
Field Cherry Creek Niobrara Gas Area				Reservoi Niobrara					hering Conn eek via Arm			
Completion Date 8/27/2007				Plug Bac 1611'	k Total De _l	oth		Packer S N/A	Set at			
Casing Size Weight 7", 4-1/2" 17#, 10.5#			.5#	Internal [9-1/4",			Set at 310', 1645'		rations 4'	то 1496'		
Tubing Size Weight N/A			Internal [Diameter	Set	at	Perfo	rations	То			
Type Completion (Describe) Single (Gas)				Type Fluid Production Saltwater				Pump Ur Yes	nit or Traveling	Plunger? Yes	/ No	
Producing Thru (Annulus / Tubing) Annulus			% Carbon Dioxide				% Nitrog	en	Gas Gr	Gas Gravity - G _g		
Vertical Depth(-1)				Pre	ssure Taps				(Meter F	Run) (Prover) Size
Pressure Buildu	ıp: Shut in	3/3/	20	09 at 8	:00	_ (AM) (PM)	Taken		20	at	(AM)	——— (PM)
Well on Line:	Started	3/4/	20	09 at 9	:00	- (AM) (PM)	Taken —		20	at	(AM)	(PM)
					OBSERV	ED SURFAC	E DATA			Duration of Shut-	_{in} _25	_ Hours
Static / Orif Dynamic Siz Property (inch	ice M ze Prover	e one: eter Pressure (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In		· · ·	2			150	psia	parg	psia			
Flow												
				-	FLOW ST	REAM ATTE	IBUTES					
Plate Circ. Coefficient Me (F _b) (F _p) Prover Mcfd p		r	Press Extension P _m xh	Gravity Factor F _g		Flowing Temperature Factor F ₁₁	emperature Fac		Metered Flow R (Mcfd)	v GOR (Cubic Fe Barrel)	∍t/ F Gr	owing luid ravity G _m
(P _c) ² =	_: (P _w) ² =	:	(OPEN FLO	OW) (DELIV	VERABILITY	') CALCUL ² ූ - 14.4) +		:	(P _a) ² (P _d)	e = 0.207 e =	_
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	(P _c) ² - (P _w)2	1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ 2. $P_c^2 - P_d^2$ 1. $P_c^2 - P_d^2$	LOG of formula 1. or 2. and divide by:	P _c ² - P _w ²	Backpre Sto	ssure Curve pe = "n" - or signed ard Slope	nxl	Log	Antilog	Open Fl Deliverat Equals R x (Mcfd	oility Antilog
		-										
Open Flow			Mcfd @ 14.6	55 psia		Deliverat	oility			Mcfd @ 14.65 psi	a	
·			ehalf of the	Company, s	t. Executed	he is duly and this the	uthorized to	\wedge -		rt and that he ha		
		itness (if an		KANSAS CO		COMMISSION 2009 -				Company		

exempt status und and that the foreg correct to the bes of equipment insta	er penalty of perjury under the laws of the state of Kansas that I am authorized to request der 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 those of the statements are true and the statements are t
gas well on the gr	ounds that said well:
(Check □ □ □ ✓ I further agre	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
staff as necessar	y to corroborate this claim for exemption from testing.
Date: 12/1/2009	
	Signature: Carl Supplement of the 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.