KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:				(See Instruc	tions on Re	verse Side	e)					
Open Flow Deliverabilty				Test Date:				API No. 15 15-023-21208-00-00						
Company Noble E	y , nergy	Inc		<u></u>			Lease Ray				41-17	Well Nu	mber	
County Cheyenne			Location SE-NW-		Section 17		TWP 2S		RNG (E/W) 38W		Acres Attributed		ttributed	
Field Cherry Creek					Reservoir Niobrara				Gas Gat Southe	hering Conne rn Star	ction			
Completion Date 1/20/2009					Plug Back Total Depth 1535'			Packer S	et at					
Casing Size 7", 4-1/2"			Weight 17#, 1		Internal Diameter 9-7/8", 6-1/4"		Set at 298', 1579'		Perforations 1350'		то 1380'			
Tubing S 2-3/8"	Tubing Size 2-3/8"		Weight 4.7 #		Internal Diameter 1.995		Set at 1412'		Perforations		То			
Type Completion (D Single (gas)			escribe)		Type Fluid Production Saltwater				Pump Unit or Traveling Plunger? Yes / No Yes					
Producing Thru (An Tubing			nulus / Tubing)	% Carbon Dioxide			% Nitrogen		Gas Gr	Gas Gravity - G _g			
Vertical C	Depth(H)	,		***	Pres	sure Taps	-	<u> </u>		(Meter I	Run) (Pi	rover) Size	
Pressure	Buildu		Shut in		0_11_at_1		(PM)	Taken		20	at	(AM) (PM)	
Well on L	.ine:		Started 7/5	2	0 <u>11</u> at <u>8</u>	:00	(PM)	Taken		20	at	(AM) (PM)	
						OBSERVE	D SURFAC		,		Duration of Shut-	_{in} _93	Hours	
Static / Orifice Dynamic Size Property (inches)		9	Circle one: Meter Prover Pressur psig (Pm)	Pressure Differential in Inches H ₂ 0	Temperature Temperatu		1 Wellhead Pressure		Tubing Wellhead Pressure (P_w) or (P_1) or (P_c) psig psia		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In							240							
Flow						51.074.075			<u> </u>					
					1	FLOW STF	EAM ATTR	IBULES			<u> </u>			
Plate Coeffiecient (F _b) (F _p) Mcfd		Pro	Circle one: Meter or ver Pressure psia	Press Extension P _m x h	Grav Fac F	tor	Tomporatura		riation actor = pv	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	et/	Flowing Fluid Gravity G _m	
				······································	(222)	(5.21.11								
(P _c) ² =		_:	(P _w) ² =_	:	(OPEN FL	OW) (DELIV ^) CALCUL = - 14.4) +	•	:	(P _a) ¹ (P _d) ²	2 = 0.20 2 =)7	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P	(P _w) ² - (P _w) ²	thoose formula 1 or 2. 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ wided by: $P_c^2 - P_a^2$	LOG of formula 1. or 2. and divide D 2 D 2		Backpressure Curve Slope = "n" or Assigned Standard Slope		n x LOG		Antilog Deliv		en Flow verability R x Antilog Mcfd)	
Open Flow			Mcfd @ 14.65 psia				Deliverat	nility			// // // // // // // // // // // // //	14 65 psia		
······											***			
				d report is true					o make the		t and that he ha		edge of	
			Witness (if	anv)			(Le	ryl	O R	<u>mon</u>	_RE	CEIVE	
			For Commis				-		U	Check		DE(} 2 8 2 0	

KCC WICHITA

•	
I declare under penalty of perjury under the laws of the state	e of Kansas that I am authorized to request
exempt status under Rule K.A.R. 82-3-304 on behalf of the operato	Noble Energy Inc
and that the foregoing pressure information and statements con	tained on this application form are true and
correct to the best of my knowledge and belief based upon availab	ole production summaries and lease records
of equipment installation and/or upon type of completion or upon u	se being made of the gas well herein named.
I hereby request a one-year exemption from open flow testing	for the Ray 41-17
gas well on the grounds that said well:	
(Check one)	
is a coalbed methane producer	
is cycled on plunger lift due to water	2
is a source of natural gas for injection into an o	
is on vacuum at the present time; KCC approva	
is not capable of producing at a daily rate in ex	RCess of 250 mct/D
I further agree to supply to the best of my ability any and all s	upporting documents deemed by Commission
staff as necessary to corroborate this claim for exemption from te	
40/45/0044	
Date: 12/15/2011	
•	
Signature:	end lokuson
	Mahat II
Title: Regulatory	Analyst II//
	,

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.

DEC 2 8 2011 KCC WICHITA