KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test					(See Instruc	tions on Rev	erse Side	r)				
Ор	en Flo	w			Test Date	a·			ΔDI	No. 15			
Del	liverab	ilty			rest Date					023-21050-0	0-00		
Company Noble Energy Inc					Lease Zweygardt			11-6			Well Number		
County Cheyenne			Location E2-E2-I	on VW-NW	Section 6		TWP 4S			W)		Acres Attributed	
Field Cherry Creek					Reservoir Niobrara			Gas Gathering Connection Southern Star/Kinder Morgan			DEC	, UE o	
Completion Date			Plug Back Total Depth				Packer Set at				-0-3 2(
7/31/2008 Casing Size Weight				1567' Internal Diameter Set			Perfo	rations	To	Acres Attributed RECEIVE Jan DEC 0.5 2 To KCC WICH			
7", 4-1/2"			17#, 1		9-7/8",		224', 1610'		1410'		1450'		-0111
Tubing Size 2-3/8"			Weight 4.7#		Internal Diameter 1.995		Set at 1465 '		Perforations		То		
Type Completion (Describe) Single (gas)					Type Fluid Production Saltwater			Pump Unit or Traveling Plunger? Yes / No Yes					
Producing Thru (Annulus / Tubing)			% C	% Carbon Dioxide			% Nitrogen Gas Gravity - G _g						
Fubing Vertical D	الطفعم	1\						*************************************			/8.4 min	7	
remical D	epin(r	1)				Pres	sure Taps				(Meter I	Run) (Prover) (Size
Pressure	Buildu	p;	Shut in2/28	3 2	0_12_at_1	2:30	(AM) (PM)	Taken		20	at	(AM) (P	 PM)
Well on Li	ine:		Started 2/29)2	0 12 at 1	:40	(AM) PM				at		
						ODEEDVE	D CUREAGE	DATA			D 11 (D) (<u>, 25</u> ,	
<u> </u>		Circle one:		Pressure	Flowing	T	Casing		Tubing		Duration of Shut-i	nHours	
Static / Or Dynamic S Property (inc		e	Meter Prover Pressu	Differential re in	Temperature	Well Head Temperature t	Wellhead Pressure (P _w) or (P _c)		Wellhead Pressure (P _w) or (P ₁) or (P ₂)		Duration (Hours)	Liquid Produced (Barrels)	
		.08)	psig (Pm)	Inches H ₂ 0	t			psia	psig	psia		,,	
Shut-In					······································		117	••••					
Flow													
						FLOW STF	EAM ATTRI	BUTES					
Plate Coeffictient $(F_b) (F_p)$ Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension P _m x h	Grav Fac F	tor	Temperature		viation Metered Flo actor R F _{pv} (Mcfd)		GOR (Cubic Fe Barrel)	l Cros	id vity
P _c)² =			/D \2 -	:	•		ERABILITY)	CALCUL - 14.4) +		-	(P _a) (P _d)	² = 0.207	
				Choose formula 1 or 2		$\overline{\Gamma}$		sure Curve		 	(' _d /	1	
$(P_c)^2 - (P_a)^2$ or $(P_a)^2 - (P_a)^2$		(P _c) ² - (P _w) ²		1, P _c ² , P _g ² LOG of formula 2, P _c ² -P _g ² 1, or 2.		Slope = "n" or		e = "n" or	n x 1	LOG	Antilog	Open Flow Deliverabili Equals R x A	ity
(F _c) (F	a) ⁻			divided by: P _c ² - P _w	and divide by:	P _c ² -P _w ²		signed ard Slope				(Mcfd)	
Open Flow			Mcfd @ 14.65 psia			Deliverabi	Deliverability			Mcfd @ 14.65 psia			
•		iana	d authority or			etatee that h			o mako th		rt and that he ha		of.
		-	•	id report is true			•			•	it and that he ha	, ₂₀ <u>12</u>	
							_						
			Witness (ii	any)			_			For C	ompany		
			For Comm	ission	······		····			Chec	ked by		

	under penalty of perjury under the laws of the state of Kansas that I am authorized to request under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc
and that the t correct to the of equipment	oregoing pressure information and statements contained on this application form are true and best of my knowledge and belief based upon available production summaries and lease records installation and/or upon type of completion or upon use being made of the gas well herein named. equest a one-year exemption from open flow testing for the Zweygardt 11-6
-	e grounds that said well: heck 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
	agree to supply to the best of my ability any and all supporting documents deemed by Commissi ssary to corroborate this claim for exemption from testing.
Date: 11/30/	2012
	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.