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

Type Test	:					(	See Instruc	tions on Rev	verse Side	?)				
Open Flow Deliverabilty				Test Date: API No. 15										
Company Noble Energy Inc.				Lease Zweygardt				15-023-20548-00-00 W 22-5			Well Nu	/ell Number		
County Location Cheyenne SENW				Section 5		TWP 4S	TWP		E/W)		Acres Attributed			
Field					Reservoir Niobrara				Gas Gathering Connection Southern Star/Kinder Morgan			RECEIVE DEC 2 0 20 KCC WICHIT		
Completion Date 5/23/2004				Plug Bac 1513'	Plug Back Total Depth 1513'				Packer Set at			DEC 2 0 20		
Casing Size 7", 4-1/2"			Weight 17#, 10.5#			Internal E 9-7/8",			Set at 259', 1555'		orations 33'	то 1419'	To KCC WI(	
Tubing Size 2-3/8"			Weight 4.7#			Internal E 1.995	Diameter		Set at 1376'		orations	То		
					Type Fluid Production saltwater				Pump Unit or Traveling Plunger? Yes / No yes					
Producing Thru (Annulus / Tubing) tubing				% C	% Carbon Dioxide				% Nitrogen Gas G			Gravity - G <sub>g</sub>		
Vertical D	epth(i	l)					Pres	ssure Taps	··········			(Meter	Run) (P	rover) Size
Pressure Well on L			5/101 III	/10 /11	20	12 at 2		$\simeq$				at		
				<u></u> .			OBSERV	ED SURFACI	E DATA			Duration of Shut-	in 24	.5 Hours
Static / Dynamic Property	Orifice Size (inches)		Circle one:  Meter  Prover Pressure  psig (Pm)		Pressure Differential in Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head	Cas Welihead (P <sub>w</sub> ) or (P	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> ) psig psia		Tubing nead Pressure or (P <sub>1</sub> ) or (P <sub>c</sub> )	Duration (Hours)	Duration Liqui	
Shut-In								91	pola	psig	, , ,			
Flow														
	<del></del>						FLOW ST	REAM ATTR	IBUTES					
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one:  Meter or  Prover Pressure  psia			Press Extension ✓ P <sub>m</sub> x h	tension Fact		' Tomporatura		viation actor F	Metered Flow R (Mcfd)	w GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G <sub>m</sub>
				<u> </u>		(OPEN FI	OW) (DELL	VERABILITY	CALCUI	ATIONS				
(P <sub>c</sub> ) <sup>2</sup> =		:	(P <sub>w</sub> )² :	=	;	P <sub>d</sub> =			, - 14.4) +		:		<sup>2</sup> = 0.2 <sup>2</sup> =	
(P <sub>c</sub> ) <sup>2</sup> - (I or (P <sub>c</sub> ) <sup>2</sup> - (I	P <sub>a</sub> ) <sup>2</sup>	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		Choc	1. P <sub>c</sub> <sup>2</sup> -P <sub>a</sub> <sup>2</sup> LC 12. P <sub>c</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup> LC 101 13. P <sub>c</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup> 1.		LOG of formula 1. or 2. and divide by:  Pc2-P2 w		Backpressure Curve Slope = "n" or Assigned Standard Slope		LOG	Antilog	O De Equal:	pen Flow liverability s R x Antilog (Mcfd)
O-05 Flo					Motel @ 14	SE nois		Delivereb	Alliès 2			Motel @ 14 SE po	  -	
Open Flo					Mcfd @ 14.	-		Deliverab	· ·			Mcfd @ 14.65 ps		
		-	•					he is duly aud this the 1.				ort and that he ha		vledge of 20 <u>12</u> .
	······································		Witness	(if eny	γ)			_			For	Company	· · · · · · · · · · · · · · · · · · ·	**************************************
			For Com	nissio	on.			_			Che	cked by		

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt 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 and correct to the best of my knowledge and belief based upon available production summaries and lease records of equipment installation and/or upon type of completion or upon use being made of the gas well herein named.  I hereby request a one-year exemption from open flow testing for the Zweygardt 22-5  gas well on the grounds that said well:  (Check one)  is a coalbed methane producer  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 mct/D  I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.  Signature:  Title: Regulatory Arialyst		
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Signature:		
	Date: 12/17/201	2

## 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.