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

Type Test	:				(See Instructions on Reverse Side)									
Open Flow Deliverabilty					Test Date	Test Date: API No. 15 000   15-023-20437-69-69								
Company Noble Energy Inc						Lease Zweygardt				Well Number 11-4R				
County Location				Section		TWP			:/W)		Acres Attributed			
Cheyenne NW-NW				4		4S		41W			on REC			
Field Cherry Creek					Reservoir Niobrara			Gas Gathering Connection Southern Star/Kinder Morgan						
Completion Date 11/16/2007				Plug Bac <b>1471</b> '	k Total Dep	th		Packer	Set at		DEC 0 5 2 KCC WICH			
asing Size Weight ', 4-1/2" 17#, 11.6#			Internal ( 9-7/8",		Set at 256', 2513'		Perforations 1316'		т <sub>о</sub> 1354'	то <b>КСС W</b> 1354'				
ubing Size Weight -3/8" 4.7#			Internal [ 1.995	Diameter		Set at 1502'		orations	То	То				
Type Completion (Describe) Single (gas)				• •	Type Fluid Production Saltwater			Pump Unit or Traveling Plunger? Yes / No Yes				***************************************		
Producing Thru (Annulus / Tubing) Tubing				% C	% Carbon Dioxide			% Nitrogen Gas Gr			ravity - G <sub>g</sub>			
ertical D	epth(H	)	<del></del>			Pres	sure Taps				(Meter F	Run) (Pro	over) Size	
					<u> </u>			20 at			(AM) (PM)			
/ell on Li	ine:	5	Started 9/1	72	0 <u>12</u> at 1	2:43	(AM) PM	Taken		20	at	(/	AM) (PM)	
					T	OBSERVE	D SURFAC	E DATA			Duration of Shut-	73.5	Hours	
Static / ynamic roperty	Orific Size (inche	ze Prover Press		Pressure Differential in Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperature t	Wellhead	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Tubing ead Pressure or (P <sub>t</sub> ) or (P <sub>c</sub> )	Duration (Hours)		Liquid Produced (Barrels)	
Shut-In							135	psia	psig	psia				
Flow														
						FLOW STE	REAM ATTR	BUTES						
Plate Coeffieci (F <sub>b</sub> ) (F <sub>p</sub> Mcfd	ent ,)	Circle one: Meter or Prover Pressure psia		Press Extension ✓ P <sub>m</sub> x h	Gravity 1 Factor 5		Flowing Temperature Factor F <sub>II</sub>	Fa	iation etor - pv	Metered Flow R (Mcfd)	GOR (Cubic Fer Barrel)	<b>9</b> t/	Flowing Fluid Gravity G <sub>m</sub>	
		•			(OPEN FL)	OW) (DELIV	/ERABILITY	CALCUL	ATIONS	<u> </u>				
)2 =		_:	(P <sub>w</sub> ) <sup>2</sup> =	:;	P <sub>d</sub> =			, - 14.4) +		:		= 0.20 =		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		Choose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w$	LOG of formula 1. or 2. and divide	LOG of formula 1. or 2. and divide p 2_p 2		Backpressure Curve Slope = "n" or Assigned Standard Slope		roe	Antilog	Ope Deliv Equals	Open Flow Deliverability als R x Antilog (Mcfd)	
							<b>M</b> 11							
pen Flov	***************************************			Mcfd @ 14			Deliverab				Vlcfd @ 14.65 psi:			
				n behalf of the							rt and that he ha		edge of 0 12 .	
			Witness (	if any)			-		• •	For C	ompany			
			F 0	-1		<del></del>	<del></del>						···	
			For Comn	nission						Chec	ked 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 11-4R
gas well on the grounds that said well:
(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 Commission
staff as necessary 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.