KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:						(See Instructions on Reverse Side)									
Open Flow Deliverabilty					Test Date:				API No. 15 15-023-20518-00-00						
Company Noble Energy, Inc.					Lease Zweygardt				Well Number					mber	
County Location Cheyenne C-NW-NW				Section 5		TWP 4S		RNG.(E/W) 41W			Acres Attributed		ttributed		
Field Cherry	Cree	k N	liobrara ga	as area	Reservoi Niobra					thering Conr y Creek vi		pe Con	npress	or	
Completion Date 10/25/2003				Plug Bac 1552'	th		Packer Set at n/a								
Casing Size 7", 4-1/2"			Weigh	nt 10.5#	Internal Diameter 9-7/8", 6-1/4"		Set at 312', 1597'		Perforations		To 122' 1460'				
Tubing Size 2-3/8"			Weight 4.7#		Internal Diameter 1.995"		Set at 1,473 '		Perforations		То				
Type Completion (Describe) Single (Gas)				Type Fluid Production Saltwater			Pump Unit or Traveling Plunger? Yes / No Yes - Rod Pump								
Producing	g Thru	(An	nulus / Tubin	g)	% (Carbon Dioxi	de		% Nitrog		, , , , , , , , , , , , , , , , , , , 		avity - G	'o	
Vertical D	Depth(F	1)				Pres	sure Taps					(Meter I	Run) (Pr	over) Size	
Pressure	Buildu	p:	Shut in 4/2	5/ 2	08 at 8	:00	(AM) (PM)	Taken		20	at			AM) (PM)	
Well on Line:			Started 4/2	7/2	08 at 8	:00	(PM)			20			•	- , ,	
						OBSERVE	D SURFACE	DATA			Duratio	n of Shut-	_{in} _48	Hours	
Static / Dynamic Property	Dynamic Size		Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Well Head Temperatur		Casing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Duration (Hours)		Liquid Produced (Barrels)		
Shut-In	Shut-In			-			179	polu	poig	раш					
Flow															
			Circle one:	-		FLOW STR	EAM ATTRI	BUTES	-		- 1				
Plate Coefficient (F _b)(F _p) Mcfd		Meter or Prover Pressure psia		Press Extension ✓ P _m x h	Gravity Factor F _g		emperature I		iation Metered Fi ctor R F _{pv} (Mcfd)		ow GOR (Cubic Fee Barrel)		et/	Flowing Fluid Gravity G _m	
					(OPEN EL (OW) (DELIVI	ERABILITY)	CALCUL	ATIONS					*	
(P _c) ² =		;	(P _w) ² =	:	P _d = 1	947 (DELIVI		- 14.4) +				(P _a) ² (P _d) ²	= 0.20	7	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		Choose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2.	LOG of formula 1. or 2. and divide P2-P2		Backpressure Curve Slope = "n" or Assigned Standard Slope		n x LOG		Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)	
					 								· · · · · · · · · · · · · · · · · · ·		
Open Flow				Mcfd @ 14.65 psia			Deliverability		Mcfd @ 14.65 psia						
					and correct	Executed	بستو	7L,	day of	e above repo		<u> </u>	s knowle	odge of O	
			. or commi							Unec	wen by				

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exempt sta and that the correct to a of equipment	are under penalty of perjury under the laws of the state of Kansas that I am authorized to request atus under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy, Inc. the foregoing pressure information and statements contained on this application form are true and the best of my knowledge and belief based upon available production summaries and lease records tent installation and/or upon type of completion or upon use being made of the gas well herein named. By request a one-year exemption from open flow testing for the Zweygardt 11-5 on the grounds that said well:
	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
	ner agree to supply to the best of my ability any and all supporting documents deemed by Commission ecessary to corroborate this claim for exemption from testing.
Date:	Signature:

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.