KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

	: en Flow liverabill			(Test Date		ructions on R	everse Side	AP	l No. 15	-0000		
Company Noble Energy Inc						15-023-21093 ·				Well Number		
County Location				Section		TWP	Zweygardt TWP			21-32B Acres Attributed		
Cheyenne SE-NW-NE-NW			32		38		41W					
Field Cherry Creek				Reservoir Niobrara			Gas Gathering Connection Southern Star/Kinder Morgan					
Completion Date 9/10/2008				Plug Bac 1599'	k Total D	epth		Packer Set at				
Casing Si 7", 4-1/2'	asing Size Weight ", 4-1/2" 17#, 11.6#			Internal I 9-7/8",			Set at 280', 1642'		orations 4'	то 1454'		
Tubing Siz	bing Size Weight			Internal I	Diameter		Set at 1413'		orations	То		
Type Completion (Describe) Single (gas)				Type Flui Saltwa			Pump Unit or Traveling F Yes			Plunger? Yes	/ No	
Producing Thru (Annulus / Tubing)					arbon Di	ioxide		% Nitrogen		Gas Gravity - G		
Tubing								·				
Vertical D	epth(H)				Р	ressure Taps				(Meter I	Run) (Prover) Size	
Pressure	Buildup	: Shut in 3/1	8 20	13 at 4	:00 PM	i (AM) (PM	Taken			at	(AM) (PM)	
Well on Li	•	Started 3/1		13 at 4		ı				at		
			<u></u>								24	
		Circle one:	Circle one: Pressure				D SURFACE DATA Casing		Tubing	Duration of Shut-	in Z4 Hours	
Static / Dynamic Property	Orifice Size (inche:	Meter Differential Prover Pressure in		Flowing Well Head Temperature t t		ad Wellhea	Wellhead Pressure (P_) or (P ₁) or (P _c)		ead Pressure or (P _t) or (P _c)	Duration (Hours)	Liquid Produced (Barrels)	
Shut-In		psig (Pm)	Inches H ₂ 0			psig 60	psia	psig	psía			
Flow												
Flow					EL OW S	TREAM ATT	BIBLITES		<u> </u>			
Plate		Circle one:	Bross			Flowing			<u> </u>		Flowing	
Coeffiecient		Meter or Extension Prover Pressure		Fac	Gravity Factor F		Temperature Fa		Metered Flor	W GOR (Cubic Fe	et/ Fluid	
		psia	J P x h						(Mcfd)	Barrel)	Gravity G _m	
			_	(OPEN FL	OW) (DE	LIVERABILIT	Y) CALCUI	LATIONS		(P.)	²= 0.207	
(P _c)² =	•	. (P _w) ² =	<u> </u>	P _d =		%	(P _c - 14.4) -	+ 14.4 = _	;	(P _d)		
(P _c)² ⋅ (F	P_)2	(P _c) ² - (P _w) ²	1. P _c ² - P _a ²	LOG of			ressure Curvi		[]		Open Flow	
or (P _c)²- (P _d)²			2. P _c ² -P _d ²	formula 1. or 2. and divide p 2. p 2			or		LOG	Antilog	Deliverability Equals R x Antilog	
₀ ,	' d'		divided by: Pc2 - Pw	by:	P.2 - P.		ndard Slope		L J		(Mcfd)	
Open Flow Mcfd @ 14.65 psia					Delivera	Deliverability			Mcfd @ 14.65 psia			
The u	undersig	ned authority, o	on behalf of the	Company,	states tha	at he is duly :	authorized	to make t	he above repo	ort and that he ha	s knowledge of	
he facts s	tated the	erein, and that s	aid report is true	and correc	t. Execu	ited this the _	18	day of _	December		, 20 <u>13</u> .	
		Witness	(if any)			_	***		For	Company		
			e11							. ,	KCC WICH	
		For Com	mission						Che	cked by		

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exempt st and that t correct to of equipm	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 21-32B 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 there agree to supply to the best of my ability any and all supporting documents deemed by Commission eccessary to corroborate this claim for exemption from testing.
	Signature: <u>Fathlu mlls</u> Title: <u>Regulatory Analyst</u>

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.

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