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

Type Test	t:				(	See Instruc	tions on Re	verse Side	<b>∌</b> )				
	en Flow diverabil				Test Date	<b>9</b> :	API No. 15 15-023-20778-00-00						
Company Noble Energy, Inc.							Lease Zweyga	Lease Zweygardt			Well Number 14-32		
County Cheyer	nne		Location SW-SW	n	Section 32		TWP 3S			W)	Acres Attributed		
Field Cherry Creek Niobrara Gas Area					Reservoi Niobrara					hering Conn <mark>Morgan via</mark>	ection Cherry Creek Compressor		
Completion Date 10/2/2007					Plug Bac <b>1518'</b>	k Total Dept	th			et at			
Casing S <b>7", 4-1</b> /			Weight 17#, 9.5#			Diameter 6-1/4"	Set at 279', 1561'		Perforations 1420'		то <b>1460'</b>		
Tubing Si 2-3/8"	ize		Weight 4.7#			Diameter	Set at 1502'		Perforations		То		
Type Completion (Describe) Single (Gas)					Type Flui Saltwa	d Production	n	Pump Unit or 1 <b>Yes</b>			Plunger? Yes /	' No	
Producing Thru (Annulus / Tubing) Tubing				% C	Carbon Dioxi	de	9		en	Gas Gravity - G <sub>g</sub>			
Vertical D	Depth(H)					Pres	sure Taps				(Meter R	lun) (Prover) Size	
Pressure	Buildup	: Shut	Shut in 4/27/ 20		10 at 12:05		(AM) (PM) Taken		20 _		at	(AM) (PM)	
Well on L	ine:	Start	1/29/	20	10 at 2	:05	(AM) (PM)	Taken		20	at	(AM) (PM)	
	······································		***		•	OBSERVE	D SURFAC	E DATA	T		Duration of Shut-in	26 Hours	
Static / Dynamic Property	ynamic Size		Circle one: Meter ver Pressure osig (Pm)	Pressure Differential in inches H <sub>o</sub> 0	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> ) psig psia		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In			,	11101100 1 20			160	psia	psig	psia			
Flow													
					<u> </u>	FLOW STR	EAM ATTR	IBUTES	Т		1	·	
Plate Coefficeient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension √ P <sub>m</sub> x h	Extension Fac		tor Temperature		Deviation Meter Factor F <sub>pv</sub> (M		w GOR (Cubic Fee Barrel)	Flowing Fluid Gravity G <sub>m</sub>	
					(OPEN FL	OW) (DELIV	ERABILITY	) CALCUL	ATIONS		(P <sub>a</sub> ) <sup>2</sup>	= 0.207	
P <sub>c</sub> ) <sup>2</sup> =		:	(P <sub>w</sub> ) <sup>2</sup> =	: loose formula 1 or 2:	P <sub>d</sub> =		% (F	° <sub>c</sub> - 14.4) +	14.4 =	:	(P <sub>d</sub> ) <sup>2</sup>	=	
(P <sub>c</sub> ) <sup>2</sup> - (I	P <sub>a</sub> ) <sup>2</sup>	$(P_c)^2 - (P_w)^2$ 1. $P_c^2$ 2. $P_c^4$		1. P <sub>c</sub> <sup>2</sup> - P <sub>e</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> rided by: P <sub>c</sub> <sup>2</sup> - P <sub>g</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide D 2 D 2		Backpressure Curve Slope = "n" or Assigned Standard Slope		l n v i	.og [ ]	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flo	w			Mcfd @ 14.	35 psia		Deliverab	ílitv			Mcfd @ 14.65 psia		
		ned aut	hority, on			states that h			o make th		ort and that he has	·	
				f report is true					٠.	ugust		, 20 <u>10</u> .	
			Witness (if a	ny)		<del></del>	_			For Company		RECEIV	
**************************************		<del></del>	For Commiss	sion				<u> </u>		Che	cked by	AUG 25	
												KCC ////	
												17 ( T ( T ( NV) )	

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 14-32
gas well 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  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.
stan as necessary to correspond te this claim for exemption norm testing.
Date: 8/23/10
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.