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

Type Tes	t:					(	(See Instruc	ctions on Re	verse Side	e)					
Op	en Flo	w				Test Date	a·			API	No. 15	-			
De	eliverat	oilty				1001 Duit	<b>5</b> .				23-20900-0	00-00			
Company Noble Energy, Inc.								Lease <b>Zweyg</b> a	ardt			22-4	Well Number 22-4		
County Location Cheyenne NW-NW-SE-NW					Section 4		TWP 4S			RNG (E/W) 41W		Acres Attributed			
Field Reservoir Cherry Creek Niobrara Gas Area Niobrara											hering Conne Morgan via I	ection _ampe Compre	essor		
Completion Date Plug Ba 5/28/2008 1508'							k Total Dep	oth		Packer S	et at				
Casing Size Weight 7", 4-1/2" 17#, 10.5#				5#	Internal E 9-7/8",			Set at 208', 1551'		Perforations 1342'		то 1381'			
Tubing Size Weight n/a					Internal [	Diameter	Set a	Set at		Perforations		То			
Type Completion (Describe) Single (Gas)					Type Flui Saltwa	d Production	on			Pump Unit or Traveling Plunger?		r? Yes / No			
			nulus / Tub	ing)			Carbon Diox	(ide	9		% Nitrogen		Gas Gravity - G <sub>g</sub>		
Annulus															
Vertical D	Depth(H	<del>1</del> )					Pres	ssure Taps				(Meter	Run) (Pro	over) Size	
					0 10 at 1		. (PM)	AM (PM) Taken		20		at (AM) (F			
Well on Line: Started 4/26/ 20					0 <u>10</u> at 9:	:05	(AM) (PM)	AM) (PM) Taken2		20	at	_ at (AM) (PM)			
							OBSERVE	ED SURFAC	E DATA			Duration of Shut-	<sub>in</sub> _70	Hours	
Static / Dynamic			Mater		Pressure Differential in	Flowing Temperature	Well Head Temperature	Wellhead	Casing Wellhead Pressure $(P_w) \text{ or } (P_t) \text{ or } (P_o)$ psig psia		ubing ad Pressure	Duration		Liquid Produced (Barrels)	
Property	(inch	hes) psig (Pr				t	t				(P <sub>1</sub> ) or (P <sub>c</sub> )	(Hours)	(0)		
Shut-In								208							
Flow															
				L_			FLOW ST	REAM ATTR	IBUTES	L					
Plate Coeffieci (F <sub>b</sub> ) (F Mcfd	ient ,)	Circle one: Meter or Prover Pressure psia			Press         Gra           Extension         Fac           ✓ P <sub>m</sub> x h         F		or	Tomporatura		ation ctor	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G <sub>m</sub>	
(P <sub>c</sub> ) <sup>2</sup> =			(P <sub>w</sub> ) <sup>2</sup>	=		(OPEN FLO		<b>/ERABILITY</b> % (F	) CALCUL P <sub>c</sub> - 14.4) +		·	(P <sub>a</sub> )	<sup>2</sup> = 0.20 <sup>2</sup> =	7	
$(P_c)^2 - (P_n)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		1. 2.	e formula 1 or 2: $P_c^2 - P_a^2$ $P_c^2 - P_d^2$ $t by: P_c^2 - P_w^2$	LOG of formula 1, or 2. and divide by:	P.2- P.2	Slop	Backpressure Curve Slope = "n" or Assigned Standard Slope		og [	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
Open Flow		I Mcfd @ 14		Acfd @ 14.6	65 psia		Deliverability		M		/lcfd @ 14.65 psi	cfd @ 14.65 psia			
The u	ındersi	gned	authority,	on bet	half of the	Company, s	tates that h	ne is duly au	thorized to	make the	above repor	t and that he ha	s knowle	edge of	
								this the 23		tay of Au			, 20	<u>10</u> .	
			Witness	(if any)					<u> </u>	mif	Force	MANU Impany	U i	RECEIVED	
			For Com	micelar		***************************************					OL	and have	A	UG 25 20	
	. ب		Fur Com	masion							Check	eu uy	KC	C WICH	

	der penalty of perjury under the laws of the state of Kansas that I am authorized to request
exempt status un	der Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy, Inc.
and that the fore	going pressure information and statements contained on this application form are true and
correct to the bes	st of my knowledge and belief based upon available production summaries and lease records
• •	allation and/or upon type of completion or upon use being made of the gas well herein named.
I hereby requ	est a one-year exemption from open flow testing for the Zweygardt 22-4
gas well on the g	rounds that said well:
(Check	
	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
$\checkmark$	is not capable of producing at a daily rate in excess of 250 mcf/D
( for the party party	the state of the s
•	ee to supply to the best of my ability any and all supporting documents deemed by Commission
statt as necessai	ry to corroborate this claim for exemption from testing.
Date: 8/23/10	
	Marila Ragarett
	Signature: (WW) (1) (WV)
	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.