## Form G-2 (Rev. 7/03)

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

	en Flow		•··· <b>-</b>		( Test Date		tructio	ns on Re	verse Side	•	Pl No. 1	5	`	•		37/1	
Del	iverabil	ty											-009	D			
Company Noble E		/ In	C.					Lease Zweyga	ardt					43-33	Well Nur	mber	
County Location Cheyenne NW-NWNE-SE					Section 33			TWP 3S		RNG (E/W) 41W			A		Acres A	cres Attributed	
Field Cherry C	reek					Reservoir Niobrara				Gas Gathering Conn Southern Star/Kind				tion · Morgan <b>DEC</b> (I		)FC as	
Completio 7/30/200					Plug Bac 1563'	Plug Back Total Depth 1563'			Pa		Packer Set at				Acres Attributed RECE/V DEC U.5 KCC WICH		
Casing Si 7", 4-1/2'			Weigł 17#,	ու <b>11</b> .6#		Internal Diameter 9-7/8", 6-1/4"			Set at 255', 1605'		Perforations 1371'			то 1408'		- AAICH	
Tubing Size Weight 2-3/8" 4.7#				Internal Diameter 1.995			Set at 1425'		Perforations				То				
ype Com Single (		(De	scribe)		Type Flui saltwa		ction			Pump yes	Unit or	Traveling	Plunger	? Yes	/ No		
Producing ubing	Thru (	Ann	ulus / Tubin	g)	% C	arbon D	Dioxide	9		% Nitr	ogen			Gas Gra	avity - G	g	
Vertical Depth(H)					Pressure Taps								(Meter Run) (Prover) Size				
Pressure	Buildup	: 5	9/1 Shut in	4 2	12 at 1	:03	(	AM) (PM)	Taken			20	at.		(		
Well on Li	ne:	5	Started 9/1	72	12 at 2	:05	(	AM) (PM)	Taken			20	at.		(,	AM) (PM)	
						OBSE	RVED	SURFAC	E DATA				Duration	n of Shut-i	73	Hours	
Static / Dynamic Property	Orific Size (inche		Circle one: Meter Prover Pressi psig (Pm)	Pressure Differential ure in Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperature t	ead	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pre		r (P <sub>c</sub> )	Duration (Hours)		Liquid Produced (Barrels)		
Shut-In			poig (i iii)	mones 11 <sub>2</sub> 0				psig 79	psia	psig		psia			ļ		
Flow																	
	- 1			T		FLOW	STRE	AM ATTE	RIBUTES				-				
Plate Coeffieci (F <sub>b</sub> ) (F Mcfd	ent ,)	Circle one:  Meter or  Prover Pressure  psia		Press Extension √ P <sub>m</sub> x h	Extension Faci		Tomporatur		Deviation Factor F <sub>pv</sub>		Me	Metered Flow R (Mcfd)		y GOR (Cubic Fee Barrel)		Flowing Fluid Gravity G <sub>m</sub>	
<del></del>					(OPEN FL	OW) (DE	IIVE	RARII ITV	() CALCUI	ATIONS	 :						
P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> ) <sup>2</sup> =	:	P <sub>d</sub> =		%		P <sub>e</sub> - 14.4) +			:		(P <sub>a</sub> ) <sup>(</sup>	2 = 0.20 2 =		
(P <sub>c</sub> ) <sup>2</sup> - (F	P <sub>a</sub> ) <sup>2</sup>	(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: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide by:			Backpressure Curve Slope = "n" or Assigned Standard Slope		۱,	x LOG		Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)		
Open Flov				Mcfd @ 14.	65 psia			Deliveral	bility		••••		Mcfd @	14.65 psi	 a		
The u	ındersiç		_	on behalf of the	Company,			is duly a	uthorized t			-			s know	edge of 20	
			Witness	(if any)			_					For	Company				
			For Com:										ocked by				

	declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request
	pt status under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc.
	nat the foregoing pressure information and statements contained on this application form are true and
corre	ct to the best of my knowledge and belief based upon available production summaries and lease records
-	upment installation and/or upon type of completion or upon use being made of the gas well herein named.
, l	nereby request a one-year exemption from open flow testing for the Zweygardt 43-33
gas v	rell 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
1	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.
	11/30/2012
	11100/2012
	11/00/2012
	11/00/2012
	1.
	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.