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

Type Test					(	See Ins	tructions on R	everse Side	)			6
	en Flov				Test Date	e:				No. 15		2
<b>4</b>	liverabi	uity ———							15-	023-20921-	<del>_</del>	1/1.
Company Noble E		jy Ir	nc.				Lease Zweyg	ardt			31-4	Well Number
County Location Cheyenne NWNE			Section 4		TWP 4S			<b>(W)</b>		Acres Attributed		
Field				Reservoir				41W  Gas Gathering Connect Southern Star/Kinder			RECEIV	
					Niobrara Plug Bac		Depth		Packer 8		er Morgan	DEC 05
2/21/2008 1560' Casing Size Weight Internal					560' ernal Diameter Set at			Doefo	orations	То	KCC WICH	
7", 4-1/2" 17#, 10.5							235', 1602'		8'	1425'		
ubing Size Weight 2-3/8" 4.7#			t	Internal [ 1.995	Diameter		Set at 1444'		Perforations			
ype Con Si <b>ngle (</b>		n (De	escribe)		• •	Type Fluid Production saltwater		<del></del>	Pump Unit or Travelin Yes		Plunger? Yes	/ No
Producing Thru (Annulus / Tubing)				g)		Carbon D	Dioxide		·			avity - G <sub>g</sub>
ubing Vertical Depth(H) Pr					ressure Taps	essure Taps			(Meter	Run) (Prover) Size		
		•									•	
Pressure Buildup: Shut in 9/14 20 12 at 2:05					(AM) PM	PM) Taken 20		20	at (AM) (PM			
Well on Line: Started 9/17 20			0 12 at 2	12 at 2:31 (AM) (PM) Taken_				20 at		(AM) (PM)		
						OBSE	RVED SURFA	CE DATA			Duration of Shut-	72.25 Hours
Static /	Orifice Size (inches)		Circle one: Meter	Pressure Differential		Well He	ad Wallhaa	Casing Wellhead Pressure		Tubing ead Pressure	Duration	Liquid Produced
Property			Prover Pressu psig (Pm)	in Inches H <sub>2</sub> 0		Tempera t	(P <sub>w</sub> ) or (	(P <sub>t</sub> ) or (P <sub>c</sub> )	1	r (P <sub>t</sub> ) or (P <sub>c</sub> )	(Hours)	(Barrels)
Shut-In							149	psia	porg	psia		
Flow												
						FLOW	STREAM ATT	RIBUTES				
Plate Coeffiecient (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 Fact		Flowing Temperature Factor F <sub>ri</sub>	Fa	iation actor <sub>pv</sub>	Metered Flov R (Mcfd)	y GOR (Cubic Fe Barrel)	Gravity
	- 1				(OBEN EI	OW() /DE	I WEDADII IT	Y) CALCUI	ATIONS	ļ		
O <sub>c</sub> ) <sup>2</sup> =		:	(P <sub>w</sub> ) <sup>2</sup> =	······································	,		ELIVERABILIT %	(P <sub>c</sub> - 14.4) +		:		$r^2 = 0.207$ $r^2 = $
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> 1. P <sub>c</sub> <sup>2</sup> 2. P <sub>c</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: $P_c^2 - P_a^2$	LOG of formula 1. or 2.		Backpressure Curve Slope = "n"		n x log		Antilog Delive Equals R	Open Flow Deliverability Equals R x Antilog (Mcfd)
Open Flo	pen Flow Mcfd @ 14.65 psia					Delivera	Deliverability		Mcfd @ 14.65 psia		ia	
		•	•				•			•	rt and that he ha	•
	tated th	herei	ii, ailu tiat se									
	tated th	herei	Witness (i		<del></del>	·	<del></del>		<b></b>	For (	Company	

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 weil herein named.
I hereby request a one-year exemption from open flow testing for the Zweygardt 31-4
gas well 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
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.
Date: _11/30/2012
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.