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

Type Test:	:			(	See Instruc	tions on Rev	verse Side	)			
	en Flow			Test Date	»:			API	No. 15		
	liverabilty							15-	023-21327-0		
Company Noble Energy Inc.					Lease Zweygardt					41-32E	Well Number
County Location Cheyenne SW-NE-NE-NE			Section 32		TWP 3S		RNG (E/W) 41W		Acres Attributed		
Field			Reservoi	•			Gas Gathering Conne		ction RECI		
Cherry Creek Completion Date				Niobrara	k Total Dep	th.		Southern Star/Kinde		er Morgan	DEC 05
9/1/2011			1583'	k lotai Dep		racker Set a		Jei ai			
Casing Size Weight 7", 4-1/2" 17#, 10.5#			Internal [ 9-7/8",		Set at 280', 1623'		Perforations 1422'		то 1460'	RECEI DEC 85 KCC WICI	
Tubing Size Weight			<del></del>	Internal [		Set at		Perforations		To	
vne Com	noletion (D	escribe)		Type Flui	d Production	n		Pump U	nit or Traveling	Plunger? Yes	/ No
Type Completion (Describe) Single (gas)			saltwater			no					
roducing Innulus		nulus / Tubing)	1	% C	arbon Dioxi	ide		% Nitrog	gen	Gas Gra	avity - G <sub>g</sub>
Vertical Depth(H)				Pressure Taps						(Meter F	Run) (Prover) Size
ressure	Buildup:	Shut in 3/5	2	12 at 1	0:45	(AM) (PM)	Taken		20	at	(AM) (PM)
			12 4:00		(AM) (PM)	AM) (PM) Taken		20	at	(AM) (PM)	
		<del></del>	· · ·	<del>.</del>							. 29.25 Hours
		Circle one:	Pressure			D SURFACI		Π	Tubing	Duration of Shut-	in 29.23 Hours
Static / Dynamic	Orifice Size	Meter Prover Pressur	Differential	Temperature Temp	Well Head Temperature	Wellhead	Pressure	Wellhe	ead Pressure or (P <sub>1</sub> ) or (P <sub>C</sub> )	Duration (Hours)	Liquid Produced (Barrels)
Property	(inches)	psig (Pm)	Inches H <sub>2</sub> 0	t	t	psig	psia	psig	psia	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(50.1.5,5)
Shut-In						166	*····				
Flow											
		I			FLOW STF	REAM ATTR	IBUTES		1	1	
Plate Coefficcient		Circle one: Press Meter or Extension		Gravity Factor		Tomporature		viation Metered Flow			Flowing Fluid
(F <sub>b</sub> ) (F Mcfd	) Pro	Prover Pressure Pm x h		F <sub>g</sub>		Factor F <sub>II</sub>		Factor R F <sub>pv</sub> (Mcfd)		(Cubic Fe Barrel)	Gravity G <sub>m</sub>
						- 11					- m
•		1		(ODEN EL	OW) (DELIN	ERABILITY	) CALCIII	ATIONS	<u> </u>		
) <sup>2</sup> =	<u></u> :	$(P_{uv})^2 =$	:	·	. ,		) CALCOI P <sub>c</sub> - 14.4) +		:		2 = 0.207 2 ==
Choose tormula 1 or 2:				Backpressure Curve			1	ГЛ	, q,	Open Flow	
$ \begin{array}{c cccc} (P_c)^2 - (P_a)^2 & (P_c)^2 - (P_w)^2 & 1. & P_c^2 - P_a^2 \\ or & & & & & \\ (P_c)^2 - (P_d)^2 & & & & & \\ \end{array} $		1. $P_c^2 - P_a^2$ 2. $P^2 - P^2$	formula 1. or 2.		Slope = "n"		n x LOG		Antilog	Deliverability Equals R x Antilog	
(P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</sub> ) <sup>2</sup>		divided by: $P_c^2 - P_w^2$		and divide P2 P2		Assigned Standard Slope					(Mcfd)
Open Flo	w	I	Mcfd @ 14.	65 psia		Deliverab	oility		, 1	Mcfd @ 14.65 psi	a
The (	undersiane	d authority, on	behalf of the	Company. :	states that h	ne is dulv au	uthorized t	o make t	he above reno	rt and that he ha	s knowledge of
	•	in, and that sai				•			•		, 20 12
- 12000		, with the star out	- /opon 10 muc	001100							
		Witness (if	any)						For C	ompany	

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 41-32B
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:
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.