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

Type Test	t:				(	See Instruct	ions on Reve	erse Side	9)				
= `	en Flor liverab				Test Date	<b>)</b> :				No. 15 023-21168-00	-00		
Company Noble Energy Inc					Lease Zimbelman					34-13	Well Number 34-13		
County Cheyenr	ne		Locatio NE-NW-		Section 13		TWP 2S		RNG (E/	W)		Acres Attribute	ed
Field Cherry C	Creek		<u> </u>		Reservoir Niobrara				Gas Gat Southe	hering Connect m Star/	tion		
Completic 12/3/200		6	<u> </u>		Plug Bac 1451'	k Total Dept	h		Packer S	Set at	_		
Casing Si 7, 4-1/2"			Weight 17#, 1		Internal ( 9-7/8",		Set at 190',	1483'	Perfo	rations 2'	To 1282'		
Tubing SI 2-3/8"	ize		Weight 4.7#		Internal ( 1.995	Diameter	Set at 1300		Perfo	rations	То		
Type Con Single (		n (De	escribe)		Type Flui Saltwa	d Production ter	n		Pump Ur Yes	nit or Traveling P	lunger? Yes	/ No	· · · · · · · · · · · · · · · · · · ·
Producing Tubing	Thru	(Anr	nulus / Tubing)	)	% C	arbon Dioxi	de		% Nitrog	en	Gas Gr	avity - G <sub>g</sub>	
Vertical D	epth(H	1)	-			Pres	sure Taps				(Meter F	Run) (Prover)	Size
Pressure	Buildu	p: :	Shut in 3/1	2	0 11 at 1	:30	(AM) (PM)	Taken		20	at	(AM) (P	 PM)
Well on L	ine:	;	Started 3/2	2	0 <u>11</u> at <u>1</u>	:30	_			20 _			•
			-2			OBSERVE	D SURFACE	DATA		Đ	uration of Shut-	in _24	Hours
Static / Oynamic Property	Orific Size (Inche	0	Circle one: Meter Prover Pressur psig (Pm)	Pressure Differential In Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperature t	Casir Wellhead F (P <sub>w</sub> ) or (P <sub>r</sub>	ressure	Wellhe	fubing ad Pressure r (P <sub>1</sub> ) or (P <sub>e</sub> )	Duration (Hours)	Liquid Produ (Barrels)	
Shut-In							145	. рана	pag	ръча			_
Flow				<u> </u>									
			· · · · · · · · · · · · · · · · · · ·			FLOW STR	EAM ATTRI	BUTES			· ,	<u> </u>	
Plate Coefficc (F <sub>k</sub> ) (F Mcfd	ient ,)		Circle one: Meter or ver Pressure psia	Press Extension P <sub>a</sub> x h	Grav Fac F	tor 1	Flowing Femperature Factor F <sub>II</sub>	Fa	viation actor F <sub>gv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	et/ Fit	wing uid Ivity
											<u> </u>		
(P <sub>a</sub> )² =		<u>_:</u>	(P_)² =_	<del>:</del>	OPEN FL		ERABILITY)	CALCUI - 14.4) -		:	(P <sub>a</sub> ) (P <sub>a</sub> )	<sup>2</sup> = 0.207 <sup>2</sup> =	•
(P <sub>a</sub> ) <sup>2</sup> - (I (P <sub>a</sub> ) <sup>2</sup> - (I	·	(F	P <sub>e</sub> ) <sup>a</sup> - (P <sub>w</sub> ) <sup>a</sup>	thouse formula it or 2  1. Pg²-Pg²  2. Pg²-Pg²  Midded by: Pg²-Pg²	LOG of formuta 1, or 2, and divide	P <sub>4</sub> <sup>2</sup> · P <sub>4</sub> <sup>2</sup>	Slop	sure Curvi e = "n" or igned ard Slope	n x	rog	Antilog	Open Fio Deliverabi Equals R x A (Mcfd)	illty Antilog
Open Flow Mcfd @ 14				.65 psia		Deliverabi	Deliverability		Mcfd <b>@</b>		14.65 psia		
The	undersi	gned	d authority, on	behalf of the	Company, s	states that h			to make th	ne above report			of
the facts s	tated tl	herei	n, and that sai	d report is true	e and correc	t. Executed	this the 28		day of C	December	<del></del>	, 20 <u>1</u> 1	<u>.</u>
			Witness (il	any)	·	RECEI	VED _	<u>CK</u>	eys	ForCo	mparry		
	·· <u> </u>		For Commis	ision		JAN 1	7 2012 _	<del>".</del>	V	Check	ad by	·	

KCC WICHITA

	are under penalty of perjury under the laws of the state of Kansas that I am authorized to request atus under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc
and that correct to of equipn	the foregoing pressure information and statements contained on this application form are true and the best of my knowledge and belief based upon available production summaries and lease records tent installation and/or upon type of completion or upon use being made of the gas well herein named. By request a one-year exemption from open flow testing for the Zimbelman 34-13
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  ser agree to supply to the best of my ability any and all supporting documents deemed by Commission
staff as n	ecessary to corroborate this claim for exemption from testing.
Date: 12	/28/2011
	Signature: Cheuf Johnson  Title: Regulatory Analyst II

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.

JAN 1 7 2012 KCC WICHITA