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

Type Test:	:				(	See Instruct	ions on Rev	erse Side	e)				
Open Flow			Too! Date	Test Date: API No. 15									
Del	liverabi	ilty			rest Date	<del>.</del>				023-20242-0	0-00		
Company Noble Energy Inc.				Lease Rueb Farm				Well Number 2-16			ımber		
County Location			Section		TWP		RNG (E/W)			Acres Attributed			
Cheyenne SW-NE-SE			Reservoi	16 3S			42W Gas Gathering Connection			RECEIVE			
Cherry Creek				Niobrara			Kinder Morgan						
Completion Date 2/26/1986				Plug Bac 1670"	Plug Back Total Depth 1670"			Packer Set at				DEC 2 6 2	
Dasing Size Weight 7", 4-1/2" 17#, 9.5#				Internal I 9-7/8",		Set at 317', 1713'		Perforations 1524'		то 1556'	K(	CC WICH	
Tubing Size Weight 2-3/8" 4.7#			nt	Internal I 1.995	Diameter	Set at 1581'		Perforations		То			
Type Completion (Describe) Single (gas)				Type Flui	Type Fluid Production saltwater			Pump Unit or Traveling Plunger? Yes / No Yes					
roducing		(Anr	nulus / Tubin	g)	% (	Carbon Dioxi	de		% Nitrog	en	Gas Gr	avity - (	3 <sub>0</sub>
ubing /ertical D	onth/H	11				Prop	sure Taps				(Motor	Dun\ (P	rover) Size
ernoar D	Сраци	',				1103	sare rapo				(IVICIOI)	riani, (i	TOVELY GIZE
ressure	Buildup		Shut in	2	12 at 8		(AM) (PM)	Taken		20 .	at	(	(AM) (PM)
Vell on Li	ine:	,	Started 12/	6 2	0 12 at 8	:30	(AM) (PM)	Taken		20	at	(	(AM) (PM)
						OBSERVE	D STIDENCE	: DATA			Duration of Chut	. 24	Hours
Static / Orifice			Circle one: Pressure				Casing		Tubing		Duration of Shut-	uration of Shut-in 24	
Static / Orific  Dynamic Size  Property (inche		e Prover Pressu		Differential in	4	Well Head Temperature	Wellhead Pressure (P_ ) or (P <sub>1</sub> ) or (P <sub>2</sub> )		Wellhead Pressure (P <sub>w</sub> ) or (P <sub>c</sub> ) or (P <sub>c</sub> )		Duration Liqu (Hours)		d Produced Barrels)
		hes) psig (Pm)		Inches H <sub>2</sub> 0	t	1	psig	psia	psig	psia	(4.04.0)		
Shut-In							90						
Flow													
1						FLOW STR	EAM ATTRI	BUTES	.1	!\L		· · · · · ·	
Plate			Circle one:	Press	Gra	vity	Flowing	Day	riation	Metered Flow	GOR		Flowing
Coeffiecient			Meter or ver Pressure	Extension	Fac	tor	emperature Fa		actor R		(Cubic Feet/		Fluid Gravity
(F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		psia		✓ P <sub>m</sub> xh	F	g	F <sub>rt</sub>		pν	(Mcfd)	Barrel)	· 	G <sub>m</sub>
							<u> </u>		-				
				1	(OPEN FL	OW) (DELIV	ERABILITY)	CALCUL	ATIONS		(0.)	2 00	.07
P <sub>c</sub> ) <sup>2</sup> =		_ :	(P <sub>w</sub> ) <sup>2</sup> =	·;	` P <sub>d</sub> =		•		14.4 =	<u></u> ;		1 <sup>2</sup> = 0.2 1 <sup>2</sup> =	
				Choose formula 1 or 2		ГЛ		sure Curve	,	ГэГ			pen Flow
(P <sub>c</sub> ) <sup>2</sup> - (F		(1)	(P <sub>w</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	1. P <sub>c</sub> <sup>2</sup> -P <sub>s</sub> <sup>2</sup>	formula 1. or 2.			oເ e ≈ "ນ"	n x l	LOG	Antilog	Del	iverability
or (P <sub>c</sub> ) <sup>2</sup> - (F	) <sup>2</sup>			2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w$	and divide	P <sub>c</sub> <sup>2</sup> -P <sub>#</sub> <sup>2</sup>		igned ard Slope					s R x Antilog (Mcfd)
				, C #	'								
		•			+								
							1			l		1	
pen Flov	N		······································	Mcfd @ 14	.65 psia	<del> </del>	Deliverabi	lity	***************************************	<u> </u>	vicid @ 14.65 ps	ia	
The t	ındersi	ignec	f authority, o	n behalf of the	Company,	states that h	e is duly au	thorized t	o make th	ie above repor	t and that he ha	as know	ledge of
e facts st	lated th	nerei	n, and that s	aid report is tru	e and correc	ct. Executed	this the 20	)	day of _D	ecember			<sub>20</sub> <u>12</u> .
			Witness (	if any)						For Co	ompany		
			F 0-	nine) n			<del></del>				ted bu		
			For Comm	mission						Check	ked by		

	or penalty of perjury under the laws of the state of Kansas that I am authorized to request er Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc.
and that the foreg correct to the best of equipment insta I hereby reque	oing pressure information and statements contained on this application form are true and of my knowledge and belief based upon available production summaries and lease records lation and/or upon type of completion or upon use being made of the gas well herein named. st a one-year exemption from open flow testing for the Rueb 2-16 bunds 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 to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
Date: <u>12/20/2012</u>	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.