KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

ype Test:					(-	See Instructi	ons on Reve	rse Side)				
= :	en Flov iverabi				Test Date	: :				No. 15 023-21166-0	0-00		
Company Noble Energy Inc						Lease Jones				Well Number 14-13			
County Location				Section				RNG (E/W)		1	Acres Attributed		
Cheyenne SE-NW-SW-SW					13 28			39W		RECE	=1\/E		
. 1412					Reservoir Niobrara				Gas Gathering Connection Southern Star				
Completion Date 12/2/2008				Plug Bac 1402'	Plug Back Total Depth 1402'				et at		DEC 0	3 Z	
Casing Size Weight 17#, 11.6#				Internal Diameter 9-7/8", 6-1/4"		Set at 210', 1442'		Perforations 1250'		то КСС V		СН	
ubing Size			Weight 4.7#		Internal Diameter		Set at 1300'		Perforations		То		
2-3/8" 4.7# Type Completion (Describe) Single (gas)				Type Flui	Type Fluid Production Saltwater			Pump Unit or Traveling Plunger? Yes / No Yes					
		(Anr	nulus / Tubing	<u> </u>		arbon Dioxi	de		% Nitrog	en	Gas Gra	avity - G _g	
ibing	ooth/H	<u> </u>				Proc	sure Taps				(Meter F	Run) (Prover) Size	
Tucai D	epui(m	''				ries	oute taps				(Mictor 1	1011) (1 10001) 0120	
essure	Buildu	p:	Shut in <u>8/7</u>	2			(AM) (PM) T	Taken		20	at	(AM) (PM)	
ell on Li	ne:	:	Started 8/8	2	0_12_at_1	2:15	(AM) (MA)	ľaken		20	at	(AM) (PM)	
						OBSERVE	D SURFACE	DATA		······································	Duration of Shut-	Hours	
Static / Ori Dynamic Si Property (inc			Circle one: Meter Prover Pressu	Pressure Differential	Flowing Temperature	Flowing Well Head Temperature Temperature		Casing Wellhead Pressure		Fubing ad Pressure r (P,) or (P _c)	Duration (Hours)	Liquid Produced (Barrels)	
		ches) Prover Press		Inches H ₂ 0	t	t	(P _w) or (P _t) or (P _c) psig psia		psig	psia	(110010)		
hut-in							118						
Flow													
				г		FLOW STR	EAM ATTRIE	BUTES					ì
Plate Coefficcient $(F_b)(F_p)$ Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension ✓ P _m x h	Grad Fac F	tor	' Tomporature		viation actor F _{pv}	Metered Flow R (Mcfd)	y GOR (Cubic Fe Barrel)	I Gravity 1	
					(OPEN FL	OW) (DELIV	ERABILITY)	CALCUI	.ATIONS			² = 0.207	
) ² =		<u> </u>	(P _w) ² =	Choose formula 1 or 2	P _d =		T		14.4 =	<u> </u>	(P _d)	² =	1
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		 P_c² - P_a² P_c² - P_d² divided by: P_c² - P_d 	LOG of formula 1. or 2. and divide	1 1		e = "n" or igned	n x LOG		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
			:	ONGOODY: Fe-Fy	~3.	<u> </u>	Startan						
Open Flow Mcfd @ 14.65 psia						Deliverability Mcfd @ 14.65 psia							
		-	=								ort and that he ha	as knowledge of, 20 <u>12</u> .	
	•		,						, 		***************************************		
			Witness (îf any)						For	Company		-
			For Comm	nission						Che	cked by		-

exempt status under and that the foregoin correct to the best of of equipment installa	penalty of perjury under the laws of the state of Kansas that I am authorized to request Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc ng pressure information and statements contained on this application form are true and my knowledge and belief based upon available production summaries and lease records tion and/or upon type of completion or upon use being made of the gas well herein named. a one-year exemption from open flow testing for the Jones 14-13 nds that said well:
is is varied is	a coalbed methane producer cycled on plunger lift due to water a source of natural gas for injection into an oil reservoir undergoing ER con vacuum at the present time; KCC approval Docket No control capable of producing at a daily rate in excess of 250 mcf/D control co
staff as necessary to Date: 11/30/2012	corroborate this claim for exemption from testing.
	Signature: 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.