KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:	:				(See Instru	ctions on Re	verse Side	e)			
Opt	en Flow	'			Test Date	··			ΔĐI	No. 15		
Del	liverabil	ty			iesi Daie	.				181-20542-0	0-00	
Company Noble Energy Inc				Lease Helman			า			12-24	Well Number 12-24	
County Location Sherman SW-NW			Section 24		TWP 6S			RNG (E/W) 40W		Acres Attributed		
Field Goodland				Reservoir Niobrara			,	Gas Gathering Connection Kinder Morgan				
Completion Date 10/9/2008				Plug Bac 1480'	k Total De	pth		Packer \$	Set at			
Casing Size Weight 7", 4-1/2" 17#, 11.6#			.6#	Internal I 9-7/8",			Set at 390', 1522'		Perforations 1286'		T⊚ 1306'	
Tubing Size Weight			Internal [Diameter	Set	et at Perforation		rations	То			
Type Completion (Describe) Single (gas)					Type Fluid Production Saltwater			Pump Unit or Traveling Plunger? Yes / No				
Producing Thru (Annulus / Tubing) Annulus				% Carbon Dioxide				% Nitrog	jen	Gas G	iravity - G _p	
Vertical Depth(H)					Pressure Taps					······	(Meter	Run) (Prover) Size
Pressure	Buildup	: Shut in .	10/29) 2(13 at 9	:40	_ (AM) (PM)	Taken		20	at	(AM) (PM)
•				12 0:40			20 at (AM) (PM)					
						OBSERV	ED SURFAC	E DATA	., .		Duration of Shu	t-in_24Hou
Static / Dynamic Property	tatic / Orifice mamic Size poperty (inches)		one: ter 'ressure (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	emperature Temperature		Casing Wellhead Pressure (P_w) or (P_t) or (P_c) psig psia		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		Liquid Produced (Barrels)
Shut-In							88	рыс	paig	polu		
Flow												<u> </u>
					1	FLOW ST	REAM ATTE	RIBUTES			<u> </u>	
Plate Coeffiecient (F _b) (F _p) Mcfd		Meter or Ex		Press Extension P _m x h	Gra Fac F	tor	Temperature		viation Metered Flow actor R F _{pv} (Mcfd)		GOR (Cubic F Barrel	eet/ Fluid Gravity
ے اوراء =	•	_: (F)² =	:	-	OW) (DEL	IVERABILITY _% (Y) CALCU! [P _c - 14.4) -		· · · · · · · · · · · · · · · · · · ·		$(x)^2 = 0.207$ $(x)^2 = $
(P _e) ² - (F	T T	(P _c) ² - (P _w)	2	2. P _c ² - P _d ² ded by: P _c ² - P _d ²	LOG of formula 1. or 2. and divide	P _c ² -P _w ²	Sk A	essure Curv ope = "n" or ssigned dard Slope	l n v	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
											-	
·····									<u></u>			<u></u>
open Flor	w			Mcfd @ 14.	65 psia		Delivera	bility			Mcfd @ 14.65 p	sia
		=	-								rt and that he h	nas knowledge of
e facts s	tated th	erein, and t	hat said	l report is true	and correc	ct. Execute	ed this the _	10	day of	-GOOTHING!		KCC WIC
		Wil	tness (if a	ny)					 	ForC	Сотрапу	DEC 3 1 2
		Fo	Commiss	ion						Chec	cked by	RECEIV

	eclare under penalty of perjury under the laws of the state of Kansas that I am authorized to request
exemp	status under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc
and the	at 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
•	oment installation and/or upon type of completion or upon use being made of the gas well herein named.
i h	ereby request a one-year exemption from open flow testing for the Helman 12-24
gas we	Il 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
l fu	orther agree to supply to the best of my ability any and all supporting documents deemed by Commission
	s necessary to corroborate this claim for exemption from testing.
	·
Data	12/18/13
Date: _	12/10/10
	Signature: Cherry Hofman
	Title: Completions Supervisor

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. Signed and dated on the front side as though it was a verified report of annual test results.

DEC 3 1 2013