KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:	:		_		(5	See Instru	uction	ns on Rev	verse Side	e)						
Open Flow Deliverabilty				Test Date:					API No. 15 15-181-20389-00-00							
		шу						1			15-181	-20389-0	0-00		Mall Nu	mhar
Noble Energy, Inc.				Lease P. Helman				33-24					Vell Number			
County Location Sherman NW-SW-NW-SE				Section 24				TWP 6S		RNG (E/W) 40W			Acres Attributed			
Field Goodland Niobrara Gas Area				Reservoir Niobrara				Gas Gatherir Prairie Star			ection					
Completion Date 1/10/2006				Plug Back 1440'	Plug Back Total Depth 1440'				Packer Set at							
Casing Si 7", 4-1/2'	easing Size Weight ", 4-1/2" 17#, 10.5#				Internal Diameter 9-7/8", 6-1/4"			Set at 404', 1482'		Perforations 1296'			то 1319'			
Tubing Si 2-3/8"	ubing Size Weight -3/8"				Internal Diameter			Set at 1331'			Perforations			То		
Type Completion (Describe) Single (Gas)				Type Fluid Production Saltwater				Pump Unit or Traveling Plunger? Yes / No Yes								
Producing Thru (Annulus / Tubing) Tubing				% Carbon Dioxide				% Nitrogen Gas Gravity					avity - G	à _g		
Vertical D	epth(F	1)				Pr	essu	re Taps						(Meter I	Run) (Pi	rover) Size
Pressure	Buildu	p: :	Shut in _4/2	0/ 2	0_10_at_1	1:40	_(/	AM) (PM)	Taken			20	8	at	(AM) (PM)
Well on L	ine:	;	Started 4/2	1/ 20	0 10 at 1:	45	(/	AM)(PM)	Taken			20	8	at	(AM) (PM)
				1		OBSER	VED	SURFAC	E DATA				Durat	ion of Shut-	_{in_} 26	Hours
Static / Dynamic Property	Orifi Siz (inch	е	Circle one: Meter Prover Pressi psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Well Head Temperature t t		- 1	Casing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)			Duration (Hours)		Liquid Produced (Barrels)	
Shut-In			psig (Fili)	inches H ₂ 0				psig 85	psia		psig	psia				
Flow																
				T		FLOW S	TRE	AM ATTR	IBUTES				<u> </u>			
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension P _m xh	Grav Fact F _c	ctor Te		Eactor		viatior actor F _{pv}	tor R		v GOR (Cubic Fee Barrel)			Flowing Fluid Gravity G _m
P _c) ² =			(P \2 =		(OPEN FLO	OW) (DEL	-IVEI %		') CALCUI P _c - 14.4) +			:		(P _a) (P _d)	$r^2 = 0.2$	07
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ² 1		Choose formula 1 or 2. 1. P _c ² - P _a ² 2. P _c ² - P _d ² divided by: P _c ² - P _a ²	ose formula 1 or 2: 1. P _c ² - P _a ² 2. P _c ² - P _d ² LOG of formula 1. or 2. and divide			Backpressure Curve Slope = "n"or Assigned Standard Slope		n x l OG			Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)	
															<u> </u>	
Open Flo				Mcfd @ 14.				Deliverat	· · · · · · · · · · · · · · · · · · ·					@ 14.65 ps	••	
		-		on behalf of the aid report is true							ake the a		ort and	that he ha		ledge of 20
			,	• • • • • • • • • • • • • • • • • • • •			_	_		ĺM	mil	2 J	Sav	met	t	
			Witness ((if any)				•				For	Company	<i>'</i>		RECE
			For Comr	nission			-	-				Che	cked by			

SEP 1.3 2010

	er 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 foregorrect to the besing of equipment instance I hereby requent	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 llation and/or upon type of completion or upon use being made of the gas well herein named. est a one-year exemption from open flow testing for the P. Helman 33-24 punds 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>9/7/10</u>	Signature:

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.