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KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:		•		(See I	nstructio	ons on Rev	erse Side	»)			
Open Flow Deliverabilty				Test Date:				API No. 15 15-181-20389-00-00			
Company	ray Inc					Lease Helman				33-24	Vell Number
Noble Energy Inc County Location Sherman NW-SW-NW-SE			Section 24	TWP 6S		RNG (E/W) 40W			Acres Attributed		
Field Goodland			Reservoir Niobrara			Gas Gathering Co		ection			
Completion Date 1/10/2006			Plug Back Total Depth 1440'			Packer S	Set at				
Casing Size Weight 17#, 10.5#		Internal Diameter 9-7/8", 6-1/4"		Set at 404', 1482'		Perforations 1296'		To 1319'			
ubing Size Weight -3/8" 4.7#		Internal Diameter 1.995		Set a	t	Perforations		То			
Type Completion (Describe) Single (gas)				Type Fluid Production Saltwater				Pump Unit or Traveling Plunger? Yes / No			/ No
Producing Thru (Annulus / Tubing) Tubing				% Carbon Dioxide				% Nitrog	en	Gas Gra	avity - G _g
Vertical De	pth(H)				Press	ure Taps				(Meter F	Run) (Prover) Size
Pressure B	uildup:	Shut in		13 at 9:00	((PM)	Taken		20	at	(AM) (PM)
Well on Lin	e:	Started 10/3	0 20	13 at 9:00	(AM) (PM)	Taken		20	at	(AM) (PM)
				ОВ	SERVED	SURFACE	DATA			Duration of Shut-	n 24 Hours
Static / Dynamic Property	Orifice Size (inches)	Circle one: Pressure Meter Differential Prover Pressure in pslg (Pm) Inches H ₂ 0		Flowing Well Head Temperature Temperature t t		Casing Wellhead Pressure .(P _w) or (P _t) or (P _c) psig psia		Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) psig psia		Duration (Hours)	Liquid Produced (Barrels)
Shut-In			2			49	рза	parg	раа		
Flow		<u> </u>			,l						
				FLO	WSTRE	AM ATTR	IBUTES				
Plate Coefficcies (F _b) (F _p) Mcfd	1 .	Circle one: Meter or rover Pressure psia	Press Extension ✓ P _m x h	Gravity Factor F	Te	Flowing emperature Factor F _{rt}	Fa	viation actor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	Flowing Fluid Gravity G _m
P _c)² =	:	(P)² =	:	(OPEN FLOW) (DELIVE %			- 14.4 =	:		2 = 0.207 2 =
(P _c) ² - (P _d		(P _c) ² - (P _w) ² Choose formula 1 or 2: 1. P _c ² - P _c ² 2. P _c ² - P _d ² divided by: P _c ² - P _w ²		LOG of formula 1. or 2. and divide p 2. p 2		Backpressure Curve Slope = "n" Assigned Standard Slope		n x LOG		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
			Trade by. I c Tw			3.6.10					
Open Flow Mcfd @ 14.65 psia						Deliverability Mcfd @ 14.65 psia					
	_	•		Company, states and correct. Ex						rt and that he ha	s knowledge of
ne iduis sid	neu nieli	eni, anu illat Sal	io report is title	, and contect. EX	SCOICU			July 01			
		Witness (if	any)			_		· · - · · · ·	For C	Company	KCC WICH
		For Commis	ssion			_			Chec	cked by	DEC 3 1 201

	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 foregone correct to the best of equipment insta	poing 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 allation and/or upon type of completion or upon use being made of the gas well herein named. Helman 33-24 ounds that said well:
(Check	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: 12/26/13	<u> </u>
	Signature: Clay As Lucion 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. The form must be signed and dated on the front side as though it was a verified report of annual test results.

DEC 3 1 2013

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