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KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:				(See Instruct	ions on Re	verse Side	e)			
Open Flow				Test Date: API No. 15								
Del	liverabi	lty			lest Date	3.				181-20444-0	0-00	
Company Noble Energy Inc					Lease Bratcher				Well Number 12-19			
County Location Sherman SW-NE-SW-N					Section 19		TWP 6S		RNG (E/W) 39W		•	Acres Attributed
Field Prairie Star					Reservoir Niobrara			Gas Gathering Conr Kinder Morgan		ection		
Completion Date 8/24/2006				Plug Bac 1486	Plug Back Total Depth 1486				Set at			
			Weight 17#, 1		Internal Diameter 9-1/2", 6 1/8"		Set at 427, 1528		Perforations 1344		то 1364	
Tubing Si 2 3/8	ubing Size Weight 3/8 4.7#				Internal Diameter Set at 1.995			at	Perfo	rations	То	
Type Completion (Describe) Single (gas)					Type Fluid Production Saltwater			Pump Unit or Traveling Plunger? Yes / No Yes				
Producing Thru (Annulus / Tubing)				% C	% Carbon Dioxide			% Nitrogen		Gas Gra	avity - G _g	
Tubing											76 · ·	- 1/2
Vertical D	epth(H)				Pres	sure Taps				(Meter F	Run) (Prover) Size
Pressure	Buildup		Shut in				(AM) (PM)	Taken		20	at	(AM) (PM)
Well on Li	ine:	;	Started 10/2	4 2	13 at 8	:00	(AM) (PM)	Taken		20	at	(AM) (PM)
						OBSERVE	D SURFAC	E DATA			Duration of Shut-	in 24 Hours
Static / Dynamic Property	Orifice Size (inches)		Circle one: Meter Prover Pressure psig (Pm) Pressure Differential in Inches H ₂ 0		Flowing Temperature t	Well Head Temperature t	Wellhead (P _w) or (P	Casing elihead Pressure		Tubing ead Pressure r (P,) or (P,)	Duration (Hours)	Liquid Produced (Barrels)
Shut-In			poig (i iii)	mones 11 ₂ 0			psig 33	psia	psig	psia		
Flow									<u></u>			
						FLOW STR	EAM ATTR	IBUTES				,
Plate Coefficcient (F _b) (F _p) Mcfd		Meter or Ex		Press Extension P _m x h	Grav Fac F	tor	Flowing Femperature Factor F _{f1}	F:	viation actor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Fer Barrel)	Flowing Fluid Gravity G _m
					(ODEN EL	OW (DEL IV	EDADILITY		ATIONS			
(P _c) ² =			(P) ² =	:	(OPEN FL	OW) (DELIV		•	+ 14.4 =	:		² = 0.207 ² =
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _o) ² - (P _w) ²		Thoose formula 1 or 2 1. $P_c^2 - P_s^2$ 2. $P_c^2 - P_d^2$ Invided by: $P_c^2 \cdot P_s^2$	LOG of formula 1. or 2. and divide		Backpre Sloj As	Backpressure Curve Slope = "n" or Assigned Standard Slope		LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
			,									
Open Flow Mcfd @ 14.65				65 psia	5 psia Deliverability				Mcfd @ 14.65 psia			
		-	•		- •		•			•	rt and that he ha	
the facts st	tated th	nerei	n, and that sai	d report is true	and correc	t. Executed	this the 5		day of	, ocember		, ₂₀ <u>13</u> .
			Witness (if	any)		 	_			ForC	Company	KCC WICH
	· · · · · · · · · · · · · · · · · · ·											DEC 3 0 2013
			For Commis	SION						Chec	ked by	

	clare under penalty of perjury under the laws of the state of Kansas that I am authorized to request status under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc
	the foregoing pressure information and statements contained on this application form are true and
	o the best of my knowledge and belief based upon available production summaries and lease records
of equip	ment installation and/or upon type of completion or upon use being made of the gas well herein named. eby request a one-year exemption from open flow testing for the Bratcher 12-19
	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
	ther agree to supply to the best of my ability any and all supporting documents deemed by Commission necessary to corroborate this claim for exemption from testing.
Date: _1	2/5/2013
	Signature: Cherch Johnson
	8
	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 GG WIGHTA signed and dated on the front side as though it was a verified report of annual test results.

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