KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Op						,	See ins	truçti	ons on He	verse Side	*)					
Open Flow						Test Date: API No. 15										
Deliverabilty					rest Date:					API No. 15 15-023-21228-00-00						
Company Noble Energy Inc					Lease Wiese					Well Number 33-5						
County Cheyenn	County Location Cheyenne NE-NE-NW-SE				Section 5			TWP 4S		RNG (E/W) 41W			Acres Attribute			
Field Cherry Creek				Reservoi Niobrara					Gas Gathering Connection Southern Star/Kinder Morgar							
Completion Date 3/3/2010				Plug Bac 1513'	k Total	Depth	1		Packer \$	Set at						
Casing Size Weight 7", 4-1/2" 17#, 11.6#				Internal Diameter 9-7/8", 6-1/4"			Set at 324', 1558'		Perforations 1336'		т _о 1398'					
Tubing Si 2-3/8"	Tubing Size Weight 2-3/8" 4.7#				Internal Diameter 1.995			Set at 1431'		Perforations		То	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 - G _g								
Vertical Depth(H)				Pressure Taps						(Meter	Run) (Pre	over) Size				
Pressure	Buildu	ıp: :		16	20	13 at 2	:15		(AM) (PM)	Taken		20	at	(/		
Well on Line: Started 7/17 20				0 <u>13</u> at <u>2:55</u> (/			(AM) (PM)	M) (PM) Taken			20 at		AM) (PM)			
							OBSE	RVE	SURFAC	E DATA			Duration of Shut	in_24.6	Hours	
Static / Dynamic Property	Orifice Size (inches)		Circle one: Meter Prover Pressure psig (Pm)		Pressure Differential in Inches H ₂ 0	Flowing Temperature I	Well Head Temperature t		Casing Wellhead Pressure (P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In			porg (c)		1101102 1 120				psig 54	psia	psig	psia		-		
Flow																
							FLOW	STR	EAM ATTR	IBUTES						
Plate Coefficcient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia			Press Extension ✓ P _m x h	Gravity Factor F _e		Flowing Temperature Factor F _{ft}		Fε	riation actor = pv	Metered Flow R (Mcfd)	w GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m	
(P _c) ² =		<u>.</u>	(P _w)² :	=	:	(OPEN FL	OW) (DI	ELIVE %) CALCUL = - 14.4) +		:	(P _a)) ² = 0.20	77	
$(P_{o})^{2} - (P_{\bullet})^{2}$ or $(P_{o})^{2} - (P_{d})^{2}$		(P _c) ² - (P _w) ²		Choose formula 1 or 2: 1. P _c ² - P _d ² 2. P _c ² - P _d ² divided by: P _c ² - P _d ²		LOG of formula 1, or 2, and divide	P _c ² - P _w ²		Backpressure Curve Slope = "n" 		T	roe [Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
						-			<u> </u>					<u> </u>		
Open Flow	w				Mcfd @ 14.6	65 psia	•		Deliverat	oility	1		Mcfd @ 14.65 ps	ia		
The เ	unders	ignec	d authority, o	on be	ehalf of the	Company, s	states th	at he		•	o make ti		ort and that he ha		edge of	
ie facts st	tated t	herei	n, and that s	said ı	report is true	and correc	t. Exec	uted	this the _1	2	day of _C	ecember .		, 2	o <u>13 </u>	
			Witness	(if any	·)			_				For	Company			
			For Com					_	=				cked by	KCC	: WICH	

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	tus under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc e foregoing pressure information and statements contained on this application form are true and
of equipme	ne best of my knowledge and belief based upon available production summaries and lease records nt installation and/or upon type of completion or upon use being made of the gas well herein named.
	y request a one-year exemption from open flow testing for the Wiese 33-5 the grounds that said well:
I furthe	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 ragree to supply to the best of my ability any and all supporting documents deemed by Commission cessary to corroborate this claim for exemption from testing.

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.

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