KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:					(See Ins	tructi	ions on Re	verse Sid	e)						
_ :	en Flo liverat					Test Date) :					No. 15 - 23-2 1,18 5	- co -00)			
Company Noble Energy Inc					Lease Cook F				-arms				24-9	Well Number 24-9			
County Location Cheyenne NE-SW-SE-SW					Section 9				TWP 2S		RNG (E/W) 38W			Acres Attributed			
Field Cherry Creek				Reservoir Niobrara				Gas Gathering Connect Southern Star			nnection	ı		RECEIVA DEC 2 6 12 C WICH			
Completion Date 11/30/09					Plug Bac 1498'	k Total	Depti	h	Packer Set at						JEC 28		
Casing Size Weight 7", 4 1/2" 20#, 11.6#					Internal Diameter 9 7/8", 6 1/4"			Set at 256', 1539'		Perforations 1316'			το ΚСС W		CWICH		
Tubing Size Weight 2 3/8" 4.7#				Internal [Internal Diameter 1.995			Set at 1365'		rations	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	То					
Type Completion (Describe) Single (gas)					Type Flui	Type Fluid Production Saltwater				Pump Unit or Traveling Plunger? yes				Yes / No			
Producing Thru (Annulus / Tubing)						% Carbon Dioxide				<u> </u>				s Gravity - G _g			
Tubing Vertical D	epth(l	H)					í	Press	sure Taps					(Meter I	Run) (P	rover) Size	
					12 9:20			_							. , , ,		
- Well Off L	me.		Started		20	J al									25	5	
Static / Dynamic Property	ic Size		Circle one: Meter Prover Pressure		Pressure Differential in	Flowing Temperature t	Well H	ature Wellhea		E DATA sing Pressure P ₁) or (P _c)	Wellhe	Tubing ead Pressure or (P _t) or (P _c)		Duration of Shut-in Duration (Hours)		Liquid Produced (Barrels)	
Shut-In		psi psi		n) Inches H ₂ 0				psig 44		psia	psig	psig psia					
Flow						•											
		··				·	FLOW	STR	EAM ATTR	IBUTES		Γ				T	
Plate Coeffied (F _b) (F Mcfd	ient 。)	Circle one: Meter or Prover Pressure psia			Press Extension P _m x h	Gravity Factor F _g		Flowing Temperature Factor F _{ft}		F	viation actor F _{pv}	Metered Flow R (Mcfd)		GOR (Cubic Fee Barrel)		Flowing Fluid Gravity G _m	
(P _c) ² =		_:	(P _w) ² =		<u> </u>	(OPEN FL		EL.IVE	ERABILITY 6 (F		LATIONS - 14.4 =			(P _a) (P _d)	² = 0.2	07	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		Choose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_c^2$ divided by: $P_c^2 - P_w^2$		LOG of formula 1. or 2. and divide by:		2	Backpressure Curve Slope = "n"		n x l OG			Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)	
															-		
Open Flo	w	l			Mcfd @ 14.	65 psia			Deliverab	oility			Mcfd	@ 14.65 ps	l ia		
		•	d authority, o						•			he above re December	eport and	d that he ha		ledge of	
			Witness	(If any	r)			_	_			-	or Company	у			
			For Com	nisela	ın.	<u> </u>		_	=			,	Checked by				
			roi Conii	повій	•••							,	PHOCKEG BÀ				

exemand to	declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request apt status under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc. hat the foregoing pressure information and statements contained on this application form are true and act to the best of my knowledge and belief based upon available production summaries and lease records uipment installation and/or upon type of completion or upon use being made of the gas well herein named. hereby request a one-year exemption from open flow testing for the Cook Farms 24-9
gas v	vell on the grounds 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
	further agree to supply to the best of my ability any and all supporting documents deemed by Commission as necessary to corroborate this claim for exemption from testing.
Date	12/20/2012
	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.