KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:						(See Ins	struct	ions on Re	verse Side	e)					
Open Flow						Test Date:					API No. 15					
De	eliverab	ilty				iesi ba						023-21067-0	00-00	*		
Company Noble E		, Inc							Lease Keller F	arms			۱ 41-13	Vell Nu	mber	
County Location Cheyenne W2-NE-NE				Section 13			TWP 2S		RNG (E/W) 39W		Acres Attributed		Attributed			
Field Cherry C	Creek	Niol	orara Gas A	Area		Reservo Niobra		•				hering Conn rn Star via F	ection Record Compres	sor		
Completion 11/12/20		е				Plug Back Total Depth			h	Packer Set at N/A					***************************************	
Casing S 7", 4-1/2		***********	Weight 17#, 9.5#			Internal Diameter 9-7/8", 6-1/4"			Set a 119'		Perforations 1155'		то 1192'			
Tubing Size 2-3/8"			Weight 4.7#			Internal Diameter 1.995"			Set at 1214'		Perforations		То			
Type Completion (Describe) Single (Gas)					Type Fluid Production Saltwater				Pump Unit or Trave No			ing Plunger? Yes / No				
Producing Thru (Annulus / Tubing)					% Carbon Dioxide			de	% Nitrogen			Gas Gravity - G ₉				
Tubing							****									
Vertical D	Pepth(F	i)					1	Press	sure Taps				(Meter F	lun) (P	rover) Size	
Pressure	Buildu	•	Snut in	17/	2				(AM) (PM)	Taken		20	at		AM) (PM)	
Well on L	.ine:		Started 1/1	9/	20	09 at 4	1:15		(AM) (PM)	Taken		20	at	(AM) (PM)	
							OBSE	RVE	D SURFACE	DATA			Duration of Shut-i	_n _15'	12Hours	
Static / Orific Dynamic Size Property (inches		е	Meler Prover Pressure		Differential		owing Well Head perature 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			paig (riii)		nones 11 ₂ 0		<u></u>		_{рsig} 190	psia	psig	psia				
Flow																
	-			1			FLOW	STR	EAM ATTRI	BUTES						
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		1	Press Extension P _m x h	Gravity Factor F _g		Flowing Temperature Factor F _{tt}			iation ctor : pv	Metered Flow R (Mcfd)	GOR (Cubic Fee Barrel)	et/	Flowing Fluid Gravity G _m	
L																
(P _c) ² =			(P _w) ² =			(OPEN FL		ELIVE %	ERABILITY)	CALCUL , - 14.4) +			$(P_a)^2 (P_d)^2$	= 0.2	07	
		=:		Choose	e formula 1 or 2:			<u>=</u> "	T	sure Curve	14.4 -	·	(d/		en Flow	
(P _c) ² - (P _a) ² or (P _c) ² - (P _d) ²				2.	$P_c^2 \cdot P_a^2$ $P_c^2 \cdot P_d^2$ (by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide by: P 2 - P		Slope = "n"		e = "n" or signed	nxl	og	Antilog	Deliverability Equals R x Antilog (Mcfd)		
Open Flov	N			N	1cfd @ 14.6	S5 psia			Deliverabi	lity			Mcfd @ 14.65 psia	1		
		•	authority, o			and correc	ct. Exec	uted t	•	ith		e above repo	rt and that he has		edge of 20 <u>09</u> .	
			Witness (f any)			0 0	 T 1	0 2000			For C	ompany			
			For Comm	nission			UĻ	1	9 2009_		······································	Chec	ked by			

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy, Inc.
and that the foregoing pressure information and statements contained on this application form are true and
correct to the best of my knowledge and belief based upon available production summaries and lease records
of equipment installation and/or upon type of completion or upon use being made of the gas well herein named. I hereby request a one-year exemption from open flow testing for the Keller Farms 41-13
gas well 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
I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.
Date:
Signature: Mun Joseph Title: Regulatory Specialist

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.