KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:	:					(See Ins	tructi	ions on Re	verse Side	e)						
	en Flo liverab					Test Date	э;					Pl No. 15					
ompany		лиу							Lease		15	-023-21025	-00-00		Well Nu	umbor	
Noble Energy Inc							Keller Farms						2	22-7			
County Location Cheyenne E2-W2-SE-NW					Section 7					RNG (E 38W	RNG (E/W) 38W		Acres Attributed				
Field Cherry Creek					Reservoi Niobrar						athering Con ern Star	nection			RECEIV DEC 2 0 C WIC		
Completion Date 11/14/2008					Plug Bac 1411'	k Total	Depti	Packer		Packer	Set at)EC 2 0		
Casing Size Weight 7", 4-1/2" 17#, 9.5#				Internal Diameter 9-7/8", 6-1/4"			Set at 211', 1444'		Perforations 1214'			го 1252'	KC	C WIC			
Tubing Size Weight 2-3/8" 4.7#					Internal Diameter 1.995			Set at 1271'		Perforations		Т	Го				
Type Completion (Describe) Single (gas)					Type Fluid Production Saltwater			l		Pump Unit or Travel yes		ng Plunger? Yes / No			number of the second		
Producing Thru (Annulus / Tubing) Tubing					% C	% Carbon Dioxide				% Nitrogen			Gas Gravity - G _g				
ertical D	epth(H	f)					ſ	Press	sure Taps		· · · · · · · · · · · · · · · · · · ·		(1)	Meter F	Run) (Pr	rover) Size	
essure	Buildu	p:	Shut in 10)/17	20	0_12_at_8	:30	*******	(AM) (PM)	Taken		2	0 at		(AM) (PM)	
Well on Line: Started 10/18 20					12 at 9	10 0.00) at				
							OBSE	RVE	SURFAC	E DATA			Duration o	f Shut-i	_{in_} 25	Hours	
Static / ynamic roperty	ic Size		9 Prover Pressure		Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t		Casing Wellhead Pressure $(P_w) \text{ or } (P_t) \text{ or } (P_c)$		Wellh (P _w)	Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In	•		psig (Fili	,	Inches H ₂ 0				psig 57	psia	psig	psia					
Flow																	
						1	FLOW	STRI	EAM ATTR	IBUTES							
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia			Press Extension P _m x h	Fac	Gravity Factor F ₉		Flowing Deviat Factor F _{pv}		actor	or R		GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G _m	
						(OPEN FL	OW) (DE	=1 (1/6	DADII ITV) CALCIU	ATIONS						
)² =		_:	(P _w) ²	=	:	P _d =		%) 0AL001 _c - 14.4) +		:		(P _a)² (P _d)²	2 = 0.20 2 =	07	
$(P_c)^2 - (P_n)^2$ or $(P_c)^2 - (P_d)^2$		(P _c)² - (P _w)²		1. P _c ² -P _d ² 2. P _c ² -P _d ² divided by: P _c ² -P _w ²		LOG of formula 1. or 2. and divide by:	P. 2 - P.	2	Backpressure Curve Slope = "n" or Assigned Standard Slope		l n x	LOG	Antilog	Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)	
	•								:	·····		***					
Open Flow Mcfd @ 14.65 psia								Deliverability				Mcfd @ 14.65 psia					
												the above rep December				=	
			Witness	(if any	y)				_			Fo	r Company				
			For Com	missio	on			_	=			Ch	ecked by				
												5,,					

a c o	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 22-7 gas well on the grounds that said well:
s	(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.
С	Date: 12/17/2012 Signature:
	Title: Regulatory Analyst

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.