KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:	(Sec	e Instructions on	Reverse Side)					
Open Flow Deliverabilty	Test Date:	w		API N 15-02	lo. 15 23-21022-00	0-00		
Company Noble Energy Inc		Lease Kelle	r Farms			12-7	/ell Number	
County Location Cheyenne N2-SW-SW-NW				RNG (E/W) 38W		Acres Attributed		
Field Cherry Creek	Reservoir			Gas Gathe Southerr	ering Conne	ction		
Completion Date 10/8/2008	Plug Back Total Depth			Packer Se	t at			
Casing Size Weight 7", 4-1/2" 17#, 11.6#	Internal Dia 9-7/8", 6-		Set at 175', 1335'		Perforations 1137'		то 1172'	
Tubing Size Weight 2-3/8" 4.7#			r Set at 1384'		Perforations		То	
Type Completion (Describe) Single (gas)	Type Fluid F Saltwate			Pump Unit	or Traveling	Plunger? Yes /	' No	
Producing Thru (Annulus / Tubing) Tubing	% Cart	oon Dioxide		% Nitroger	n	Gas Gra	vity - G _g	
Vertical Depth(H)		Pressure Tap	s	<u>.</u>		(Meter R	un) (Prover) Size	
Pressure Buildup: Shut in 11/7	20_13 at_10:0	00 (AM) (P	M) Taken		20 _	at	(AM) (PM)	
	20 <u>13</u> at 10:1	1E =				at		
	0	BSERVED SURF	ACE DATA			Ouration of Shut-in	24.25 Hours	
Static / Orifice Circle one: Pres. Static / Orifice Meter Difference Property (inches) psig (Pm) Inches	ential Flowing V Temperature Te	well Head Wellh	Casing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		bing d Pressure P ₁) or (P _c) psia	Duration (Hours)	Liquid Produced (Barrels)	
Shut-in	2	62	psia	psig	рыа			
Flow								
	FI	LOW STREAM AT	TRIBUTES	<u> </u>				
Plate Circle one: Pre Coefficient Meter or Exten (F _b) (F _p) Prover Pressure Mcfd psia	nsion Factor	Flowing Temperatu Factor F ₁ ;	1 Devia	tor	Metered Flow R (Mcfd)	GOR (Cubic Fee Barrel)	Flowing Fluid Gravity G _m	
	(ODEN SI ON	/) (DELIVERABIL	ITY) CALCULA	ATIONS				
(P _c) ² =: (P _w) ² =	•	/) (DELIVERABIL	(P _c - 14.4) +		:		= 0.207 =	
$ \begin{array}{c cccc} (P_c)^2 - (P_a)^2 & (P_c)^2 - (P_w)^2 & Choose forms \\ & 1. \ P_c^2 - (P_c)^2 - (P_d)^2 & 2. \ P_c^2 - (P_d)^2 & divided by: F \end{array} $	P LOG of formula		kpressure Curve Slope = "n" or Assigned tandard Slope	n x LC	og [Antilog	Open Flow Deliverability Equats R x Antilog (Mcfd)	
Occo Flow	@ 14 65 s=i=	Della	arobilitu.			Anid @ 14.65 ====		
	@ 14.65 psia		erability	maka tha		1cfd @ 14.65 psia		
The undersigned authority, on behalf of the facts stated therein, and that said report						and that he has	, 20 <u>13</u>	
•						_		
						r	/CC WICHI	
Witness (if any)					For Co	ompany	<u>(CC WICHI)</u> DEC 3 1-2013	

exempt sta and that the correct to of equipment	are under penalty of perjury under the laws of the state of Kansas that I am authorized to request atus under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc he foregoing pressure information and statements contained on this application form are true and the best of my knowledge and belief based upon available production summaries and lease records ent installation and/or upon type of completion or upon use being made of the gas well herein named. by request a one-year exemption from open flow testing for the Keller Farms 12-7
gas well o	n 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
	ter agree to supply to the best of my ability any and all supporting documents deemed by Commission
staff as ne	ecessary to corroborate this claim for exemption from testing.
Date: <u>12/</u>	27/13
	Signature: Ley Johnson 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 signed and dated on the front side as though it was a verified report of annual test results.

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