## Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

= -	en Flow liverabil			Test Date	۵٠							
Company		•			<b>.</b>				No. 15	0.00		
		nc				Lease Zimbelm	an	15-	023-20846-0		Well Number	
County Location Cheyenne NW-NE				Section 31		TWP 3S		RNG (E/W) 41W			Acres Attributed	
Field Cherry Creek				Reservoi Niobrar				Gas Gathering Cor Southern Star/Kin		nection REC		
Completion Date 2/4/2008					k Total Dep	th	······		****	,,,,,,,	DEC 0 5 KCC WICH	
Casing Size Weight , 4-1/2" 17#, 10.5#			Internat I 9-7/8",		Set at 324', 1704'		Perforations 1498'		To 1540'	KCC WICH		
Tubing Size Weight 2-3/8" 4.7#			Internal I		Set at		Perforations		То	•		
Type Completion (Describe) Single (gas)					Type Fluid Production Saltwater			Pump Unit or Traveling Plunger? Yes / No Yes			/ No	
Producing Fubing	Thru (	Annulus / Tubi	ng)	% (	Carbon Dioxi	de		% Nitrog	jen	Gas Gra	avity - G <sub>g</sub>	
/ertical D	epth(H)		· ·		Pres	sure Taps				(Meter F	Run) (Prover) Size	
Pressure I	Buildup			12 at 1	0:20	(PM)	Taken		20 .	at	(AM) (PM)	
Well on Li	ine:	Started 2/	32	20 12 at 3	:30	(AM) (PM)	Taken		20 .	at	(AM) (PM)	
					OBSERVE	D SURFACE	DATA			Duration of Shut-i	n_28.75_Hours	
Static / Dynamic Property	Orific Size (inche	Meter Prover Pres	Differential in	Flowing Well Head Temperature t		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> ) psig psia		Tubing Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$ psig psia		Duration (Hours)	Lìquid Produced (Barrels)	
Shut-In						116						
Flow												
Plate		Circle one:	Press	Grav	vitv	Flowing		iation	Metered Flow	GOR	Flowing	
Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Meter or Prover Pressure psia	Extension √ P <sub>m</sub> x h	Fac F	tor 1	Temperature Factor F <sub>ft</sub>	Fact F <sub>p</sub> ,	ctor R	R	(Cubic Fee Barrel)	et/ Fluid Gravity G <sub>m</sub>	
P <sub>c</sub> ) <sup>2</sup> =		.: (P <sub>w</sub> )²	=:	•	, ,	ERABILITY) % (P,		ATIONS 14.4 =	:	(P <sub>a</sub> ) <sup>2</sup> (P <sub>d</sub> ) <sup>2</sup>	= 0.207	
$(P_c)^2 - (P_a)^2$ 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_d^2 $ $ divided by: P_c^2 - P_w^2 $		LOG of formula 1. or 2. and divide	LOG of formula 1. or 2. and divide   p2_p2		Backpressure Curve Slope = "n"orAssigned Standard Slope		roe	Antilog D	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flow	<u> </u>		Mcfd @ 14	65 peia		Deliverabil	-     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -       -       -     -     -     -     -     -       -     -       -       -       -       -       -       -       -       -       -       -			Anial @ 14 CE mai		
		ned authority			states that h		•	n make th		Acfd @ 14.65 psia t and that he has		
			said report is tru								, 20 <u>12</u>	
		Wilmer	/if any)			_			<del></del>			
		Witness	(ii atriy)						For Co	mpany		

exempt status u	nder penalty of perjury under the laws of the state of Kansas that I am authorized to request under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inceregoing pressure information and statements contained on this application form are true and less to fmy 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 Zimbelman 31-31								
	grounds that said well:								
I further ag	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  aree to supply to the best of my ability any and all supporting documents deemed by Commission cary to corroborate this claim for exemption from testing.								
Date: 11/30/20	012								
	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.