Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test				(See Instruct	tions on Rev	erse Side)				
Open Flow Deliverabilty				Test Date: API No. 15 6/14/2015 15-185-23791 - 0000								
Company Gra Ex, LLC					Lease Bookstore					Well Number #2RD		
County Location Stafford 1460'FNL & 380'FWL			Section 1		TWP 24S				Acres Attributed			
Field Rattlesnake North				Reservoir Lansing			Gas Gathering Lumen		-	ection		
Completion Date 4/12/2013			Plug Back Total Depth 4251			Packer Set at						
Casing S 5 1/2"			Internal Diameter		Set at 4250		Perforations 3766		то 3847			
Tubing Si 2 3/8"	Tubing Size Weight 2 3/8"			Internal Diameter		Set at Pe 4167		Perfo	rations	То	То	
Type Completion (Describe) single gas/oil perf				Type Fluid Production 10 oil 5 water 4mcf				Pump Unit or Traveling Plun pump unit YES			/ No	
Producing Thru (Annulus / Tubing) tubing				% Carbon Dioxide				% Nitrogen			Gas Gravity - G _g	
Vertical D	Depth(H)		AL MARKETON BEAUTY		Pres	sure Taps				(Meter F	Run) (Prover) Size	
Pressure Buildup:		: Shut in6/12	Shut in 6/12 20		₀ _15_ at_9AM		(AM) (PM) Taken 6/			15 at 10AM	(AM) (PM)	
Well on L	_ine:	Started 6/14	1 20	0 <u>15</u> at <u>1</u>	1AM	(AM) (PM)	Taken 6/	15	20	15 at 10AM	(AM) (PM)	
	1	Circle one:			OBSERVE	D SURFACE	DATA	1		Duration of Shut-	inHours	
Static / Dynamic Property	Dynamic Size _{Pi}		Pressure Differential in Inches H ₂ 0	Flowing Well Head Temperature t		l Wallhaad Praccura		Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) psig psia		Duration (Hours)	Liquid Produced (Barrels)	
Shut-in		psig (Pm)	2			110	psia	100	рыа	-		
Flow						90		85				
		Olasta anno			FLOW STR	REAM ATTRI	BUTES					
Plate Coefficient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia	Press Extension √ P _m xh	Gravity Factor F _g		Temperature Factor		viation Metered Flo actor R F _{pv} (Mcfd)		v GOR (Cubic Fe Barrel)	et/ Flowing Fluid Gravity G_m	
				(OPEN FL	OW) (DELIV	ERABILITY)	CALCUL	ATIONS		(D.)		
(P _c) ² =		.: (P _w) ² =		•		•	' _c - 14.4) +		;		2 = 0.207 2 =	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		$ \begin{array}{c} \text{Choose formula 1 or 2} \\ (P_c)^2 - (P_w)^2 & 1. \ P_c^2 - P_a^2 \\ & 2. \ P_c^2 - P_d^2 \\ & \text{divided by: } P_c^2 - P_w^2 \end{array} $		LOG of formula 1. or 2.		Backpressure Curve Slope = "n" or Assigned Standard Slope		n x LOG		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
										,		
Open Flow Mcfd @ 14.6			35 psia		Deliverah	Deliverability		Mcfd @ 14.65 psia		3		
The	undersig	ned authority, or	n behalf of the	Company, s	t. Executed	e is duly au	thorized to	day of	ne above repo	rt and that he ha	s knowledge of	
		Witness (i			C WIL	- AIIA 2016 –		Usi	ie M	Company Chbick	7	

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	r penalty of perjury under the laws of the state of Kansas that I am authorized to request er Rule K.A.R. 82-3-304 on behalf of the operator Gra Ex, LLC
and that the forego correct to the best of equipment instal	oing pressure information and statements contained on this application form are true and of my knowledge and belief based upon available production summaries and lease records lation and/or upon type of completion or upon use being made of the gas well herein named. st a one-year exemption from open flow testing for the #2RD Bookstore bunds that said well:
I further agree	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 to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
	CC WICEITA Signature: <u>USIC KU h bick</u> JAN 1 1 2016 Title: Office Manager RECEIVED

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.