## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(-	See Instruc	tions on Re	everse Side	;)			
Op	en Flow			-	Test Date	· 			API N	No. 15		
<b>√</b> De	liverabilty	•	•		12/04/13					75-20055-(	00-00	
Company Linn Ope		nc					Lease HCU		-		2111	Well Number
County Location Hamilton SE NW					Section 21		TWP 21S		RNG (E/W) 41W		Acres Attributed 640	
Field Bradshaw					Reservoir Winfield				Gas Gathering Conr Oneok Field Servi			
Completion Date 6/21/73					Plug Back Total Depth 2792'				Packer Se	et at		
Casing Size Weight 4.5 9.5				Internal D 4.090	Diameter	Set at <b>2799</b> '		Perforations 2766'		то 2784'		
Tubing Size Weight 2 3/8 4.7				Internal D 1.995	Diameter	Set at 2790'		Perforations		То	То	
Type Completion (Describe) Single Gas					Type Fluid Production Gas - Water				Pump Unit or Traveling Plunger? Yes / No Pump Yes			
Producing Annulus	-	innulus / Tub	ing)		% C	arbon Dioxi	ide		% Nitroge	n	Gas Gr .766	avity - G <sub>g</sub>
Vertical Depth(H)				Pressure Taps Flange						<del> </del>		Run) (Prover) Size
	Buildup:	Shut in	2/03	20_1	13 <sub>at</sub> 1		<del></del>	Taken 12	2/04	20	13 <sub>at</sub> 11:00	
Well on L	ine:	Started	•	20	at		(AM) (PM)	Taken	· · · · · · · · · · · · · · · · · · ·	20	at	(AM) (PM)
			-			OBSERVE	D SURFAC	E DATA			Duration of Shut-	in 24 Hours
Static / Orifice Dynamic Size Property (inches		Circle one Meter Prover Pres	Differen	tiot	Flowing mperature t	Well Head Temperature t	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$		Duration (Hours)	Liquid Produced (Barrels)
Property Shut-In	(11101165)	psig (Pm	1) Inches I	H <sub>2</sub> 0		,	psig 40	psia 54.4	psig Pump	psia	24	
Flow												
						FLOW STF	REAM ATTI	RIBUTES				
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure psia	Press Extensi ✓ P <sub>m</sub> >	on	Grav Fact F <sub>g</sub>	or Temperature		Fa	Deviation Metered R Factor R F		w GOR (Cubic Fe Barrel)	Flowing Fluid Gravity G_m
'P \2		/D \2	_	. (C		OW) (DELIV		•		_		<sup>2</sup> = 0.207
$(P_c)^2 = $ (P_c)^2 - (F_c)^2	P <sub>a</sub> ) <sup>2</sup>	(P <sub>w</sub> ) <sup>2</sup> (P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula  1. P <sub>c</sub> <sup>2</sup> - P		P <sub>d</sub> =		% (P <sub>c</sub> - 14.4) +  Backpressure Curve Slope = "n"			: :	(P <sub>d</sub> )	Open Flow
or (P <sub>c</sub> ) <sup>2</sup> - (F			2. P <sub>c</sub> <sup>2</sup> -P		formula 1. or 2. and divide by:	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	A	or ssigned dard Slope	n x LC	OG	Antilog	Deliverability Equals R x Antilog (Mcfd)
										,		
Open Flo	w		Mcfd @	14.65	psia		Delivera	bility			Mcfd @ 14.65 psi	a
The t	undersign	ed authority,	on behalf of	the Co	mpany, s	tates that h	ne is duly a	uthorized to	o make the	above repo	ort and that he ha	s knowledge of
ne facts s	tated the	ein, and that	said report is	true ar	nd correct	t. Executed	this the _5	5th	day of De	cember		, <sub>20</sub> <u>13</u>
						~		M	lam	-#-	inen	KCC WI
		Witness	s (if any)			4	•			For 0	Company	1,00
			•									DEC 13

I declare under penalty of p	perjury under the laws of the state of K	ansas that I am authorized to request
• • • •	82-3-304 on behalf of the operator Lin	
		d on this application form are true and
		oduction summaries and lease records
•		ing made of the gas well herein named.
, ,	exemption from open flow testing for th	
gas well on the grounds that said		
(Check one)		
is a coalbed r	methane producer	
is cycled on p	olunger lift due to water	
is a source o	f natural gas for injection into an oil res	ervoir undergoing ER
is on vacuum	at the present time; KCC approval Doc	ket No
is not capable	e of producing at a daily rate in excess	of 250 mcf/D
I further agree to supply to t	he best of my ability any and all suppo	rting documents deemed by Commission
	e this claim for exemption from testing	
Date: 12/5/13		
Date: / 30/ 3/	<del>-</del>	
	Signature:	Hidren
•	Title: Regulatory Com	ipliance Advisor
		,

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. Signed and dated on the front side as though it was a verified report of annual test results.

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