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

Type Test	t:					(	See Ins	struct	ions on Re	verse Sid	ie)							
Op	en Flo	W				Test Date	<b>^</b>					ADI N	0 15					
Deliverabilty						9/25/14						API No. 15 15-007-23461-0000						
Company WOOLS	RATING CO	OMF	PANY, LLC		Lease LOGAN								8-X	Well N	umber			
County Location BARBER NW SE SW NW						Section 20			TWP 34S		RNG (E/W) 11W				Acres	Attributed		
Field STRANA			Reservoir MISSISSIPPIAN						Gas Gathering Connection APC									
Completion Date 11/13/09						Plug Bac 5051	k Total	h	Packer Set at NONE			at						
Casing Size Weight 4.500 10.50					Internal Diameter 4,052			Set a 508		Perforations 4638			т <sub>о</sub> 4820	1				
Tubing Si 2.375	Tubing Size Weight 2.375 4.70				Internal Diameter 1.995			Set a 4850		Perforations OPEN			То					
Type Completion (Describe) SINGLE						Type Fluid Production OIL & WATER				Pump Unit or Traveling Plunger? Yes / No PUMPING								
Producing		(Anı	nulus / Tubir	ıg)		% C	arbon l	Dìoxid	de		% 1	Vitroger	1		Gas G	aravity -	G <sub>g</sub>	
Vertical D		1)	<del></del>					Press	sure Taps				_		(Meter	r Run) (1	Prover) Size	
Pressure	Buildu	<b>p</b> :	Shut in 9/2	24/1	4 20	0 at		_	(AM) (PM)	Taken_C	/25/	14	20	at_			(AM) (PM)	
Well on L	Well on Line: Started 20						at (AM) (PM) Taken					20 at				at (AM) (PM)		
							OBSE	RVE	D SURFACI	E DATA				Duration	of Shu	t-in_	Hours	
Static / Dynamic Property	Size		Circle one: Meter Prover Pressure		Pressure Differential in	Flowing Temperature t		emperature   /c		Casing Wellhead Pressure (P,) or (P,) or (Pc)		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>p</sub> ) or (P <sub>c</sub> )		Duration (Hours)		Liqu	Liquid Produced (Barreis)	
Shut-In	psig (Pm)			Inches H <sub>2</sub> 0			psig 120		psia	12	psig 20	psia	24			<del>  </del>		
Flow			-													_		
1.0.7						-	EL OW	CYD	L EAM ATTRI						_			
Plate Coeffieci (F <sub>b</sub> ) (F Mcfd	ient ,)	Circle one: Meter or Prover Pressure psia			Press Extension	Fac	Gravity Factor F		Flowing Temperature Factor F <sub>II</sub>		Deviation Factor F <sub>pv</sub>		Metered Flow R (Mcfd)	v GOR (Cubic Fee Barrel)		eeV	Flowing Fluid Gravity G <sub>m</sub>	
						<u> </u>									_			
(P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> )² :	3	:	(OPEN FL		ELIVI %	ERABILITY) 6 (P	) CALCU ' <sub>o</sub> - 14.4)			:			$a^{2} = 0.$ $a^{2} = 0.$	207	
$(P_o)^2 - (P_a)^2$ or $(P_o)^2 - (P_d)^2$		(P <sub>o</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		Choose formula 1 or 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:		2 Assig		ssure Curvoe = "n" - or signed ard Slope	= "n" r ned n x		G [	Antilog		De	Open Flow Deliverability Equals R x Antilog (Mcfd)	
	$\rightarrow$			_	<del>_</del> _	-			<del> </del>		_					_		
Open Flov	 N				Mcfd @ 14.6	 35 psia			Deliverab	ility				Mcfd @	14.65 p	 sia		
The 1	ındarsi	aner	l authority o	n h	ehalf of the	Company s	states th	nat he	e is duly au	ıthorized	to ma	ake the	above reno	ort and th	nat he h	as kno	wledge of	
		•	•		report is true				-				TOBER				20 14 .	
10013 31	iaiou (	10101	n, and mats	raiU	opon is tide	and conec	LAGO	J.0U		Tela			// .		KA	NSAS CO	Received RPORATION COMM	
			Witness	(if any	<i>i</i> )	_ <del>_</del>		_	_	ur n	<i>,</i>			ompany		OC	T 2 2 2014	
			For Com	missic	ort .		_	-	_				Chec	cked by		CONSE	RVATION DIVISIO	

l declare unde	er penalty of perjury under the laws of the state of Kansas that I am authorized to request
exempt status unde	er Rule K.A.R. 82-3-304 on behalf of the operator WOOLSEY OPERATING CO., LLC
	oing 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 insta	llation and/or upon type of completion or upon use being made of the gas well herein named.
I hereby reque	st a one-year exemption from open flow testing for the LOGAN 8X
gas well on the gro	ounds that said well:
_	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.
Dato.	Signature: Wn L Halloyk.  Title: FIELD MGR.

## 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.