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

Type Test	:				(	See Instru	ctic	ons on Rev	verse Side	)						
□ Ор	en Flo	w			Test Date					APIN	lo 15					
De	liverab	ilty			10/28/1						07-23232 <b>-</b> 0	00-00				
Company WOOLS		PER	ATING COM	MPANY, LLC		· · ·		Lease LOGAN					6-X	Well Nu	mber	
County Location BARBER E2 SE NE				Section 19			TWP 34S	·	RNG (E/W) 11W				Acres /	Attributed		
Field STRANA	ATHAI	N			Reservoir MISSIS	SIPPIAN			•	Gas Gath	ering Conne	ection				
Completic 1/16/08	on Dat	e			Plug Baci 5047	Plug Back Total Depth 5047				Packer Set at NONE						
Casing Size Weight 4.500 10.50			· · · · · ·	Internal Diameter 4.052			Set a 5089		Perforations 4638			то 4824				
Tubing Size Weight 2.375 4.70				Internal Diameter 1.995			Set a	Set at Perforation OPEN			То					
Type Con		n (De	escribe)		Type Flui- WATE	d Production	on	•	,	Pump Unit	or Traveling	Plunge	r? Yes	/ No		
Producing		(Anı	nulus / Tubing	)	% C	arbon Dio	xide	e		% Nitroge	n		Gas G	ravity - (	3,	
Vertical D		1)				Pre	SSU	ure Taps					(Meter	Run) (P	rover) Size	
Pressure	Buildu	p:	Shut in	27/11 2	0 at		(	AM) (PM)	Taken_10	)/28/11	20	at			(AM) (PM)	
Well on Line:			Started	0 at				Taken				(AM) (PM)		(AM) (PM)		
			<u> </u>			OBSERV	/ED	SURFACI	E DATA			Duratio	n of Shut	-in	Hours	
Static / Orifice Dynamic Size Property (inches)		е	Circle one: Meter Prover Pressu	I	Flowing Temperature 1	Well Head Temperatur t	perature Wellhead Pres		Pressure	Tubing Wellhead Pressure $(P_w) \propto (P_1) \propto (P_2)$		Duration (Hours)		Liquid Produced (Barrels)		
Shut-In			psig (Pm)	Inches H <sub>2</sub> 0				psig 380	psia	psig psla .		24				
Flow			<del>-</del>				1									
						FLOW ST	rRE	AM ATTR	IBUTES	-						
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension ✓ P <sub>m</sub> x h	Grav Fac F <sub>e</sub>	tor Te		Flowing Imperature Factor F <sub>rt</sub>	Fa	ation ctor	Metered Flow R (Mcfd)	v	GOR (Cubic Fee Barrel)		Flowing Fluid Gravity G	
					(OPEN FL	OW) (DELI	IVE	RABILITY	CALCUL	ATIONS		_				
(P <sub>c</sub> ) <sup>2</sup> =		<u>.</u> :	(P <sub>n</sub> ) <sup>2</sup> =		P,=		_%		· - 14.4) +		:			) <sup>2</sup> = 0.2 ) <sup>2</sup> =	:07	
$(P_e)^2 - (P_a)^2$ or $(P_e)^2 - (P_a)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		Choose formula 1 or 2 $1. P_c^2 - P_a^2$ $2. P_c^2 - P_d^2$ It vided by: $P_c^2 - P_a^2$	LOG of formuta 1. or 2. and divide	P <sub>c</sub> <sup>2</sup> . P <sub>w</sub> <sup>2</sup>	p 2		ssure Curve pe = "n" - or signed ard Slope	l n x Lo	og [	Ar	Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flo	l w	<del>,,,_</del>		Mcfd @ 14.	65 psia			Deliverab	ility			Mcfd @	14.65 ps	ia		
		iane	d authority, or	behalf of the		states that	he			o make the			-		dedge of	
		_	•	id report is true							VEMBER	<u> </u>	0	,	20 11 .	
			Whinese El	gov)					W	n Rd	Hull	ompany			EIVED	
			Witness (il					_					[	JEC :	3 0 2011	
			For Commi	ssion							Che	cked by	K	CC V	/ICHITA	

	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 WOOLSEY OPERATING CO., LLC								
and that the forego	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								
• •	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 LOGAN 6X								
	unds 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								
$\checkmark$	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.								
Date: 11/12/11									
	Signature: War Robblagen  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 catendar 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.