KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(See Instru	ctions on Rev	verse Side)					
Open Flow				Test Date				۸ÐI	No. 15					
✓ Deliverabilty				9/29/15			API No. 15 15-007-23462-00-00							
Company		PER	ATING CO	MPANY, LLC	;		Lease LOGAN				9 X	Well Nu	ımbər	
County BARBER			Location NW SW SE NW		Section 19		TWP 34 S		RNG (E/W) 11 W			Acres Attributed		
Field STRANA	ATHAI	v –		_	Reservoir MISSIS		-	-	Gas Gat ATLAS	hering Conn	ection			
Completion Date 12/1/09				_	Plug Bac 5095	k Total De	oth		Packer Set at NONE					
Casing Size 4.500			Weigh 10.50		Internal Diameter 4.052		Set at 5130		Perforations 4682		то 4878	т _о 4878		
Tubing Size			Weigh		Internal Diameter		Set at		Perforations		То			
2.375			4.70		1.995		4888		OPEN					
Type Completion (Des SINGLE					WATE	·		PUM		Unit or Traveling Plunger' MPING				
ANNUL	US		nulus / Tubing	j) 	% C	Carbon Diox	kide		% Nitrog	en 	Gas Gr	avity - (3 ,	
Vertical D 4776	epth(H	l)		_		Pre	ssure Taps	-		-	(Meter I	Avn) (P	rover) Size	
Pressure	Buildu	p: :	Shut in <u>9</u> /2	9/15	20 at		_ (AM) (PM)	Taken 9/	30/15	20	at		(AM) (PM)	
Well on L	ine:	;	Started	2	0 at		_ (AM) (PM)	Taken		20	at		(AM) (PM)	
						OBSERV	ED SURFACE		1		Duration of Shut-	in	Hours	
Static / Dynamic Property	Orifi Size (inche	Prover Pressure in		Flowing Well Head Temperature t t		Casing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)		Liquid Produced (Barrels)		
Shut-In	.625		psig (Pm)	Inches H ₂ 0			psig 65	psia	psig 140	psia	24	<u> </u>		
Flow											_			
						FLOW ST	REAM ATTRI	BUTES			<u> </u>			
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psla		Press Extension P _m x h	Grav Fact F _e	tor	Tomograhura		iation ctor P*	Metered Flov R (Mcfd)	y GOR (Cubic Fe Barrel)	et/	Flowing Fluid Gravity G _m	
							_							
(D \2 -			(P _w) ² =		•		VERABILITY) % (P	CALCUL - 14.4) +		•	(P _a) (P ₄)	² = 0.2	207	
(P _c) ² =	l	- ' -	<u> </u>	Choose formula 1 or 2	P _a =			ssure Curve			(1 4)	1		
(P _c) ² - (F or (P _c) ² - (F		(F	P _c) ² - (P _w) ²	1. P _c ² -P _a ² 2. P _c ² -P _d ²	LOG of formula 1, or 2. and divide	P _e ² - P _w ²	Slop	9 = "n" or signed	l n x i	LOG	Antilog	Del Equals	oen Flow Iverability BR x Antilog (Mcfd)	
<u> </u>	\dashv			divided by: $P_c^2 - P_w$	2 by:	<u> </u>	Standa	ard Slope	 					
Open Flor	w			Mcfd @ 14	.65 psia		Deliverabi	ility			Mcfd @ 14.65 ps	а		
The u	ındərsi	gnec	d authority, o	n behalf of the	Company, s	states that	he is duly au			•	rt and that he ha	s know	ledge of	
the facts s	tated th	nerei	n, and that sa	aid report is tru	e and correc	t. Execute	d this the 1		4	CTOBER		<u> </u>	20 <u>15 </u>	
			Witness (i	f eny)	KANSA	Receis corporat	ived ION COMMISSIO	TU ON	In d		Company C			
			For Comm	ission	i	0CT 1	6 2015 -			Chec	cked by			

CONSERVATION DIVISION WICHITA, KS

exempt status und and that the foreg correct to the best of equipment insta I hereby reque	er penalty of perjury under the laws of the state of Kansas that I am authorized to request ler Rule K.A.R. 82-3-304 on behalf of the operator WOOLSEY OPERATING CO, LLC roing 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 allation and/or upon type of completion or upon use being made of the gas well herein named. LOGAN 9-X pounds 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 eto supply to the best of my ability any and all supporting documents deemed by Commission of to corroborate this claim for exemption from testing.
Date: 10/1/15	
	Signature: Wm L Hellow C. 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.