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

lype lest:					(See msnu	cuons on ne	verse side	"				
Open Flow Deliverabilty					Test Date:				No. 15 007-23219-0	n-00		
Company			OMPANY, LL	9/10/12 .C	2	Lease LOGAN		10-0	J07-232 19-0	5-X	Well Nu	mber
County Location BARBER W/2 NE NW			Section 19					RNG (E/W) 11W		Acres Attributed		
Field STRANATHAN				Reservo MISSIS	ir SSIPPIAN	-		Gas Gathering Connectio		ection	RECEIV DEC 0 5	
Completion Date 2/1/08				Plug Ba 5054	ck Total De	pth	Packer Set at NONE		et at		DEC 05	
Casing Size Weight500 10.50			Internal 4.052	Diameter				rations )	™ 4830	KCC WIC		
Tubing Size Weight 2.375 4.70			Internal 1.995	Diameter	Set a	at	Perforations OPEN		То			
Type Completion (Describe) SINGLE					Type Fluid Production WATER			Pump Unit or Traveling Plunger? Yes / No PUMPING				
roducing	•	Annulus / Tubi	ng)	%	Carbon Dio	xide		% Nitrog	en	Gas G	ravity - (	G <sub>,</sub>
ertical De	epth(H)				Pre	essure Taps				(Meter	Run) (P	rover) Size
ressure E	Buildup:	Shut in _9/	10/12	. 20 at		_ (AM) (PM)	Taken 9/	11/12	20	at		(AM) (PM)
Well on Lir	ne:	Started		20 at_		_ (AM) (PM)	Taken		20	at		(AM) (PM)
		1		·	OBSERV	ED SURFAC		1		Duration of Shu	t-in	Hours
Static / Dynamic Property	Orifice Size (inches	Prover Pres	Differenti	Temperatur				$(P_w) \text{ or } (P_t) \text{ or } (P_c)$		Duration Liq (Hours)		id Produced Barrels)
Shut-In		Farg (i.i.	7			160	psia	120	psia	24		
Flow												
					FLOW ST	TREAM ATTR	IBUTES					
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle ane: Meter or Prover Pressure psia	Press Extensio ✓ P <sub>m</sub> x	¹ Fa	avity ctor F <sub>g</sub>	Flowing Temperature Factor F <sub>11</sub>		riation actor F <sub>pv</sub>	Metered Flow G R (Cubi (Mcfd) Ba		eet/	Flowing Fluid Gravity G <sub>m</sub>
				(ODEN E	LOW (DEL	IVED A DIL ITY	O CAL CIN	ATIONE				
)² =		: (P <sub>w</sub> ) <sup>2</sup>	=:	OPEN FI		IVERABILITY _% (1	P <sub>c</sub> - 14.4) +		:		$()^2 = 0.2$ $()^2 = $	207
(P <sub>c</sub> ) <sup>2</sup> - (P	() <sub>a</sub> ) <sup>2</sup>	(P <sub>o</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	1. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup>	1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> LOG of formula 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> 1. or 2. and divide by:		Slo As	Backpressure Curve Slope = "n" or Assigned Standard Slope		rog	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flow Mcfd @ 14.65 psia						Deliveral	Deliverability			Mcfd @ 14.65 psia		
The u	ındersigi	•		he Company,			8	day of N	ne above repo	ort and that he h		vledge of 20 12 .
		Witnes	s (if any)				Uh	ĽQ	hllar	ompany		
		For Co	mmission						Chec	cked by		

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator WOOLSEY OPERATING CO., LLC and that the foregoing 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 installation and/or upon type of completion or upon use being made of the gas well herein named. I hereby request a one-year exemption from open flow testing for the LOGAN 5X
gas well on the grounds 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
is not capable of producing at a daily rate in excess of 250 mcf/D
I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.  Date: 11/28/12
Signature: <u>Um Ablauge</u> 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.