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

Type Test:					(	See Instruct	ions on Re	verse Side	9)				
	en Flov				Test Date	<b>)</b> :			API	No. 15			
Deli	iverabi	lty			9/18/12					007-23152-0	00-00		
Company WOOLSEY OPERATING COMPANY, LLC					Lease LOGAN						4X	Well No	umber
County Location BARBER NE NW NW				Section 20		TWP 34S	= 1		W)			Attributed	
Field SHORT				Reservoir	SIPPIAN			Gas Gat	hering Conn	ection		RECEIVE	
Completion Date 7/17/09					k Total Dept	h		Packer Set at NONE		ALP -	ı	DEC 05 20	
	asing Size Weight			Internal E 4.052	Diameter		Set at Perforatio 5076 4638'			To 4774	KC	C WICHI	
Tubing Size Weight				Internal E	Diameter	Set at		Perforations OPEN		To	•		
2.375 4.70 Type Completion (Describe)				Type Flui	1.995 Type Fluid Production			Pump Unit or Traveling Plunger? Yes / No					
SINGLE Producing Thru (Annulus / Tubing)					WATER, OIL  % Carbon Dioxide				PUMPING % Nitrogen Gas Gravity - G				
		(7111	idids / Idbilig	,	/6 C	AIDON DIOXI	u <del>0</del>		76 MILIOS	jen	Gas	aravity -	G <sub>g</sub>
/ertical De 1771'	epth(H	)				Pres	sure Taps			4.100	(Meter	r Run) (F	rover) Size
Pressure I	Buildup	o: (	Shut in _9/18	3/12	0 at		(AM) (PM)	Taken 9/	19/12	20	at		(AM) (PM)
Well on Li	ne:	;	Started							20	at		(AM) (PM)
						OBSERVE	D SURFAC	E DATA			Duration of Shu	t-in	Hours
Static / Dynamic Property	amic Size perty (inches		Circle one: Meter Prover Pressui psig (Pm)	Pressure Differential re in Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Wellhe	Tubing ead Pressure r (P <sub>t</sub> ) or (P <sub>c</sub> )	Duration (Hours)		id Produced (Barrels)
Shut-In			psig (Fili)	indies H <sub>2</sub> O			psig 170	psia	psig 100	psia	24		
Flow												-	
				•		FLOW STR	EAM ATTR	RIBUTES		<del>-</del>			
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter of Prover Pressure psia		Press Extension ✓ P <sub>m</sub> x h	Grav Fact	tor 1	Flowing Temperature Factor F <sub>11</sub>		viation actor = pv	Metered Flor Fl (Mcfd)	w GOF (Cubic F Barre	eet/	Flowing Fluid Gravity G <sub>m</sub>
	<u>. l</u>				(OPEN FL	OW) (DELIV	FRARII ITY	() CALCUI	ATIONS				
P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> ) <sup>2</sup> =_	:	P <sub>d</sub> =			P <sub>c</sub> - 14.4) +		:		$(a)^2 = 0.2$ $(a)^2 = $	207
(P <sub>c</sub> ) <sup>2</sup> - (P or (P <sub>c</sub> ) <sup>2</sup> - (P		(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. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$	LOG of formula 1, or 2, and divide by:	P <sub>c</sub> <sup>2</sup> • P <sub>w</sub> <sup>2</sup>	Backpressure Curve Slope = "n" or Assigned Standard Slope		l n x	LOG	Antilog	De	pen Flow liverability s R x Antilog (Mcfd)
Open Flow Mcfd @ 14.65				65 psia		Deliverat	Deliverability			Mcfd @ 14.65 psia			
				behalf of the				8		OVEMBER	ort and that he h		vledge of 20 12
			Witness (if	any)			-	wm		For	Company		
			For Commit	ssion			-			Che	cked by		

exempt status u and that the for correct to the be of equipment ins	ider penalty of perjury under the laws of the state of Kansas that I am authorized to request a nder Rule K.A.R. 82-3-304 on behalf of the operator WOOLSEY OPERATING CO., LLC begoing pressure information and statements contained on this application form are true and lest of my knowledge and belief based upon available production summaries and lease records stallation and/or upon type of completion or upon use being made of the gas well herein named. LOGAN 4X
	grounds that said well:
l further ag	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 ree to supply to the best of my ability any and all supporting documents deemed by Commission ary to corroborate this claim for exemption from testing.
	Signature: Wind Chillage  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.