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

Type Test	t <u>:</u>				(	See Instruct	tions on Reve	erse Side	)					
= :	en Flov				Test Date	<b>)</b> :			API	No. 15				
De	liverabi	lty			10/28/1	1			15-	007-23238-0	00-00			
Company WOOLSEY OPERATING COMPANY, LLC					Lease LOGAN				7-X	Well Nu	mber			
County Location BARBER NE NW SW NW				Section 19				RNG (E/W) 11W			Acres A	Attributed		
Field STRANATHAN						Reservoir MISSISSIPPIAN			Gas Gathering Connection APC					
Completion Date 2/12/08				Plug Bac 5110	Plug Back Total Depth 5110			Packer S NONE	et at					
Casing S 4.500	Casing Size Weight 4.500 10.50			Internal E 4.052	Diameter	Set at 5152		Perforations 4696		To 4800				
Tubing Si	Tubing Size Weight				Internal E 1.995	Diameter	Set at	t at Perforations OPEN			То			
Type Completion (Describe) SINGLE				Type Flui WATE	Type Fluid Production WATER			Pump Unit or Traveling Plunger? Yes / No PUMPING						
Producing Thru (Annulus / Tubing) ANNULUS					% Carbon Dioxide			% Nitrog	en	Gas G	Gas Gravity - G			
Vertical D		)				Press	sure Taps				(Meter	r Run) (P	rover) Size	
4748											• • • • • • • • • • • • • • • • • • • •	-		
Pressure	Buildup	o: :	Shut in	27/11 2	0 at		(AM) (PM)	Taken_10	/28/11	20	at		(AM) (PM)	
Well on L	ine:	;	Started	2	0 at		(AM) (PM)	Taken		20	at		(AM) (PM)	
						OBSERVE	D SURFACE	DATA	·		Duration of Shu	ıt-in	Hour	
Static / Dynamic Property	Dynamic Size		Circle one:  Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Well Head Temperature t t		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In			paig (i iii)	inches ri <sub>2</sub> 0			120	psia	psig 500	psia	24			
Flow														
						FLOW STR	EAM ATTRI	UTES						
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension	Extension Fact		tor Temperature		ation clor pv	Metered Flow R (Mcfd)	(Cubic F	GOR (Cubic Feet/ Barrel)		
					(2220)									
(P <sub>c</sub> ) <sup>2</sup> =			(P <sub>w</sub> ) <sup>2</sup> =	:	(OPEN FLO	• •	ERABILITY) % (P <sub>.</sub>	- 14.4) +		ż		$_{d}^{2} = 0.2$	07	
(P <sub>e</sub> ) <sup>2</sup> - (I or (P <sub>e</sub> ) <sup>2</sup> - (I	P_)2		(P <sub>w</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> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup>	LOG of formula 1. or 2.	P. 2 - P. 2	Backpressure Curve Slope = "n"			roe [	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
Open Flo	w			Mcfd @ 14.	65 psia		Deliverabil	ity			Mcfd @ 14.65 p	sia		
		-	•								rt and that he i		_	
ine facts s	tated th	nerei	n, and that sa	id report is true	e and correc	t. Executed				OVEMBER <i>U</i> M	$\overline{}$		20 <u>11</u>	
			Witness (il	any)			_	Km	LQ		Company	RE(	CEIVED	
							_					DEC	3.0.20	
			For Comm	SSION						Chec	ked 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 7X									
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: <u>11/12/11</u>									
Signature: Win L Hallaye									
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.