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

Type Test	t:				(	See Instruc	tions on Rev	erse Side	)					
Open Flow														
Deliverabilty			Test Date 10/28/11			API No. 15 15-007-23461-0000								
Company		ER	ATING COM	MPANY, LLC		<u>.                                      </u>	Lease LOGAN					Well Nu	mber	
County Location BARBER NW, SE, SW, NW			Section 20		TWP 34S		RNG (E/	W)		Acres Attributed				
Field STRANA	ATHAN	·	. ,,	· · · · · · · · · · · · · · · · · · ·	Reservoir MISSIS				Gas Gat	hering Conn	ection			
Completion Date 11/13/09			Plug Bac 5051	k Total Dep	th	,	Packer S NONE	et at						
Casing Size Weight 4.500 10.50				Internal Diameter 4.052			Set at Perforations 5085 463			- 48205820				
Tubing Size Weight			Internal D	Diameter		Set at Perforations			То					
2.375 4.70			1.995			4856 OPEN								
Type Completion (Describe) SINGLE			ÖIL &	d Production WATER		Pump Unit or Travelin PUMPING		ING	_	/ No				
ANNUL	US		nulus / Tubing	)	% C	arbon Dioxi			% Nitrog	en	Gas Gr	avity - (	3, 	
Vertical C	epth(H)	)				Pres	sure Taps				(Meter I	Run) (P	rover) Size	
4815 Pressure	Buildun	n: !	Shut in	7/11 2	0 at		(AM) (PM)	Taken 10	0/28/11	20	at		'AM) (PM)	
Well on L	•										at			
						OBSERVE	D SURFACE	DATA			Duration of Shut-	in	Hours	
Static / Dynamic	Dynamic Size		Circle one: Meter Prover Pressui	Pressure Differential e in	Flowing Well Hea				Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>r</sub> ) or (P <sub>r</sub> )		Duration (Hours)	•	Liquid Produced (Barrels)	
Property Shut-in	(Inche	3)	psig (Pm)	Inches H <sub>2</sub> 0	1	t	psig 275	psia	psig 20	psia	24	-		
Flow														
				<u> </u>		FLOW STR	REAM ATTRI	BUTE\$				1 .		
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension ✓ P <sub>m</sub> xh	Grav Fact F <sub>c</sub>	tor	Flowing Temperature Factor F <sub>t1</sub>		lation ctor	Metered Flow R (Mcfd)	v GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G <sub>m</sub>	
					•		'ERABILITY)				-	² = 0.2	07	
(P <sub>c</sub> ) <sup>2</sup> =	<del></del> T	<u>-:</u>	(P <sub>x</sub> )² =_	hoose formula 1 or 2	P <sub>a</sub> =	<del></del>		<u>- 14.4) +</u>		<del></del> :	(P <sub>g</sub> )	<u> </u>	<del></del> _	
(P <sub>e</sub> ) <sup>2</sup> - (I or (P <sub>e</sub> ) <sup>2</sup> - (I	_	(P	)2 - (P_)2	1. P <sub>c</sub> <sup>2</sup> - P <sub>e</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> (vided by: P <sub>c</sub> <sup>2</sup> - P <sub>c</sub> <sup>2</sup> )	LOG of formula 1. or 2. and divide	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Slop	sure Curve e = "n" or igned ird Slope	n x t	.00	Antilog	Del Equals	oen Flow iverability i R x Antilog (Mcfd)	
Open Flow Mcfd @ 1			Mcfd @ 14.	65 psia		Deliverabi	Deliverability		Mcfd @ 14.65 psia					
			•				-			e above repo ECEMBER	rt and that he ha		•	
ine facts s	tated th	erei	n, and that sa	d report is true	and correc	t. Executed	this the 20		day of <u>u</u> Wee	A	100 1	REC	20 11 EIVED	
			Witness (il	any)			_		<u>w</u>		company	التار	3 U 3U4	
	<u> </u>		For Commi	ssion			_			Che	cked by	بايان	3 0 2011	

KCC WICHITA

exempt status und and that the foregoing correct to the best of equipment install I hereby requi	der Rule K.A.R. 82-3-304 on behalf of the operator WOOLSEY OPERATING CO., LLC going pressure information and statements contained on this application form are true and to fmy 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. est a one-year exemption from open flow testing for the LOGAN 8X counds 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 e to supply to the best of my ability any and all supporting documents deemed by Commission y to corroborate this claim for exemption from testing.
	Signature: Win & Sallay 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.