KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

_ :	: en Flow liverabilty	,			Test Date	:	tions on Reve	erse Side	´ API I	No. 15 07 -23461- 0		
Company WOOLS		RATING C	OMP	ANY, LLC	09/14/13	<u> </u>	Lease LOGAN		15-0	07-23461-0		Well Number
County Location BARBER NW SE SW NW				Section 20		TWP 34S			V)	Acres Attributed		
Field STRANATHAN				Reservoir MISSIS	SIPPIAN			Gas Gath APC	ering Conne	ection		
Completion Date 11/13/09				Plug Back 5051	k Total Dep	th			et at			
Casing Size Weight 4.500 10.50				Internal D 4.052	lameter	Set at 5085			ations	то 4820		
Tubing Size Weight 2.375 4.70				Internal Diameter 1.995		Set at 4856			Perforations OPEN			
Type Completion (Describe) SINGLE						d Production	n	Pump Unit or Trave		-	Plunger? Yes	/ No
Producing Thru (Annulus / Tubing) ANNULUS					% C	% Carbon Dioxide			% Nitrogen Gas (ravity - G _g
Vertical D					<u></u>	Pres	sure Taps				(Meter	Run) (Prover) Size
4815 Pressure	•	Shut in	9/14/				(AM) (PM) T					(AM) (PM)
Well on L	ine:	Started		20) at		(AM) (PM) T	āken		20	at	(AM) (PM)
		Circle as	T	Pressure		OBSERVE	D SURFACE			1	Duration of Shut	-in Hours
Static / Dynamic Property	Orifice Size (Inches	Meter Prover Pres	Meter Difference psig (Pm)		Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		Duration (Hours)	Liquid Produced (Barrels)
Shut-In							140		100		24	
Flow												
					1	FLOW STE	REAM ATTRIE	BUTES	1			
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension ✓ P _m x h	Grav Fact F _g	tor	Flowing Temperature Factor F ₁₁		ation Metered Flow tor R (Mcfd)		y GOR (Cubic Fe Barrel)	eet/ Fluid
(P _c) ² =		: (P _*)	· -	:	(OPEN FLO		/ERABILITY) (CALCUL - 14.4) +		:	(P _a)	$0)^2 = 0.207$ $0)^2 = $
(P _c) ² - (F or (P _c) ² - (F		(P _c) ² - (P _w) ²		1. $P_c^2 - P_g^2$ 2. $P_c^2 - P_d^2$ 1. $P_c^2 - P_d^2$ 1. $P_c^2 - P_d^2$	LOG of formula 1. or 2. and divide by:	P.2-P.2	Ślope	gned gr	n x L	og [Antilog	Open Flow Deliverability Equals R x Antilog (Mctd)
Open Flor	<u> </u>			Mcfd @ 14.	65 psia		Deliverabili	ity			Mcfd @ 14.65 ps	sia
							ne is duly auth		day of _DE	CEMBER	rt and that he ha	as knowledge of, 20 13
		Witnes	s (if any	1)			_	w	n R	(Val	aug -	KCC WIC
		For Co	mmissio	on						Che	cked by	DEC 18 2

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	clare under penalty of perjury under the laws of the state of Kansas that I am authorized to request status under Rule K.A.R. 82-3-304 on behalf of the operator WOOLSEY OPERATING CO., LLC
	t 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
	ment installation and/or upon type of completion or upon use being made of the gas well herein named. reby request a one-year exemption from open flow testing for the LOGAN 8X
	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
l fu	ther 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: 1	2/09/13
_	
	Signature: What Hallaus

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.