KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type T est	t:				(See Instruct	ions on Rev	erse Side)			
Open Flow					Tool Date	Test Date:						
✓ De	liverab	ilty			9/29/15) :				No. 15 007-23152-0	00-00	
Company WOOLSEY OPERATING COMPANY, LLC					Lease LOGAN					4 X	Well Number 4 X	
County BARBER	₹		Location NE NW		Section 20		TWP 34 S		RNG (E/	W)	A	Acres Attributed
Field SHORT					Reservoir MISSIS				Gas Gat ATLAS	hering Conne	ection	
Completion Date 7/17/09					Plug Bac 5048	h		Packer S NONE	Set at		×	
Casing S 4.500	ize		Weigh		Internal E 4.052	Diameter	Set a 5076		Perfo 463	rations	то 4774	
Tubing Si	ize		Weigh		Internal D	Diameter	Set a	t	Perfo OPE	rations EN	То	
Type Con	•	n (D				d Production	1		Pump Ur PUMP	nit or Traveling	Plunger? Yes	/ No
	roducing Thru (Annulus / Tubing)					arbon Dioxi	de	e % Nitrog		gen Gas Gr		ıvity - G _g
Vertical E		1)				Pres	sure Taps				(Meter R	lun) (Prover) Size
Pressure	Buildu	p:	Shut in _9/29	9/15 2	 0 at		(AM) (PM)	Taken_9/	30/15	20	at	(AM) (PM)
Well on L											at	
						OBSERVE	D SURFACE	DATA			Duration of Shut-i	nHour
Static / Dynamic Property	Orifi Siz (inch	е	Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H ₀ 0	Flowing Temperature t	Well Head Temperature t	Casi Wellhead I (P _w) or (P,	Pressure) or (P _c)	Wellhe	fubing ad Pressure (P _I) or (P _c) psia	Duration (Hours)	Liquid Produced (Barrels)
Shut-In	.625	i	p=19 (1 m)				psig 70	psia	140	psia	24	
Flow												
	r					FLOW STR	EAM ATTRI	BUTES				
Plate Coeffiec (F _b) (F Mcfd	ient ,)	Pro	Circle one: Meter or over Pressure psia	Press Extension P _m x h	Grav Fact F _g	tor 1	Flowing emperature Factor	Fa	iation ctor pv	Metered Flov R (Mcfd)	GOR (Cubic Fee Barrel)	Flowing Fluid Gravity G _m
					<u> </u>							
(P _c)² ≔			(P _w) ² =		(OPEN FLO	.,	ERABILITY) % (P	CALCUL - 14.4) +			(P _a)² (P _d)²	= 0.207
(P _c) ² - (I		· (F	P _c) ² - (P _w) ²	2. P _a ² - P _d ²	LOG of formula 1. or 2. and divide	P _c ² -P _w ²	Backpres Slop Ass	sure Curve e = "n" origned ard Slope	n x	LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
						<u> </u>	-					
												
Open Flo	W	Mcfd @ 14.65 psia					Deliverabi	Deliverability Mcfd @ 14.65 psia				
		•	•	behalf of the		t. Executed	this the 1		day of _C	e above repo CTOBER L Hal	rt and that he has	s knowledge of , 20 <u>15</u>
	. -		Witness (ii	any)	KAN	ISAS CORPOR	eived ATION COMMIS	SION	Vm L	For C	Company O	
			For Comm	ssion		-001 1	6 2015			Chec	ked by	

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to requested 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 a correct to the best of my knowledge and belief based upon available production summaries and lease record equipment installation and/or upon type of completion or upon use being made of the gas well herein named the hereby request a one-year exemption from open flow testing for the LOGAN 4-X gas well on the grounds that said well:	ind rds
(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 Commi	ssion
staff as necessary to corroborate this claim for exemption from testing. Date: 10/1/15	
Signature: <u>Un L Hallang L</u> Title: FIELD MGR.	<u>-</u>

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.