KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

= :	: en Flow liverabil				Test Date		ctions on Re	verse Side	API	No. 15		
		<u>-</u>			8/5/14		1,000		15-(007-01017-0		Mall Number
Company WOOLSEY OPERATING COMPANY, LLC							Lease ROTH				2	Well Number
County Location BARBER NE SE SW			Section 31		TWP 33S			W)		Acres Attributed		
Field AETNA					Reservoir MISSISSIPPIAN			Gas Gathering APC		hering Conne	ection	
Completic 10/12/89					Plug Back Total Depth		oth			Set at		
Casing Si 4.500			Weight 10.50			Internal Diameter 4.052		Set at 5024		rations 3	To 4712	
Tubing Size W 2.375 4.			ight 'O		Internal Diameter 1.995			Set at 4755		rations EN	То	
Type Completion (Describe) SINGLE						d Production	on	Pump Unit or Tr PUMPING		nit or Traveling ING	Plunger? Yes	/ No
Producing Thru (Annulus / Tubing) ANNULUS				% C	arbon Diox	kide	% Nitrogen		en	Gas Gravity - G		
Vertical D	epth(H)					Pre	ssure Taps				(Meter	Run) (Prover) Size
Pressure	Buildup	: Shut in _	3/4/1	4 20	at	· -	(AM) (PM)	Taken_8/	5/14	20	at	(AM) (PM)
Well on Li	ine:	Started _		· 20	at		_ (AM) (PM)	Taken		20	at	(AM) (PM)
		_				OBSERV	ED SURFAC	E DATA			Duration of Shut-	inHours
Static / Dynamic Property	Size	Orlfice Size Prover Pressure psig (Pm)		Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t	(P _w) or (P _I) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _o)		Duration (Hours)	Liquid Produced (Barrels)
Shut-In	Shut-In		poig (i iii)				psig 48	psia	psig 48	psia_	24	
Flow												
						FLOW ST	REAM ATTE	RIBUTES		·		
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psla		Press Extension √ P _m x h	Grav Fac F	tor	Flowing Temperature Factor F _{f1}	Fa	iation ictor _{pv}	Metered Flow R (Mcfd)	y GOR (Cubic Fe Barrel)	eet/ Fluid
(P _c) ² =		· (P)² =		(OPEN FL	•	VERABILITY % (/) CALCUL P _e - 14.4) +			(P _s) (P _d))² = 0.207 \² =
$(P_o)^2 - (P_a)^2$ or $(P_o)^2 - (P_d)^2$		(P _o) ² - (P _w) ²	(P _o) ² - (P _w) ²		LOG of formula 1. or 2. and divide	Backpres Stope		essure Curve pe = "n" - or ssigned	, n x	LOG	Antillog	Open Flow Deliverability Equals R x Antilog (Mcfd)
			div	ided by: Po2 - Pw2	by:	<u> </u>	Stand	dard Slope				()
Open Flow Mcfd @ 14.65 psia						Delivera	Deliverability		Mcfd @ 14.65 psia			
				behalf of the				14		UGUST	ort and that he ha	as knowledge of, 20 14
	_	Witn	ess (if a	ny)					um i	For	Company	Receive KANSAS CORPORATION
		For	ommise	ion						Che	cked by	OCT 22

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 ROTH #2
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
staff as necessary to corroborate this claim for exemption from testing. Date: 8/14/14
Signature: Wm R Hallager 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.