KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:			(See Instruci	tions on Rev	verse Side)					
Open Flow Test Date:								ΔĐΙ	No. 15				
Daliman hite.				7/26/11									
Company WOOLSEY OPERATING COMPANY, LLC					Lease ELLIS					G-4	Well No	ımber	
County Location BARBER SW SE SE			Section 27		TWP 33S			W)		Acres	Attributed		
Field AETNA				Reservoir MISSIS	SIPPIAN			Gas Gatt APC	nering Conn	ection			
Completion Date 3/21/96			Plug Back Total Depth 5280				Packer S NONE	et at					
Casing Size Weight 4.500 10.50			Internal E 4.052	Diameter	Set at 5327		Perforations 4674		то 4784	4	_		
Tubing Size Weight 2.375 4.70			Internal D 1.995	Diameter	Set at 4757		Perforations OPEN		То				
Type Completion (Describe) SINGLE					Type Fluid Production WATER			Pump Unit or Traveling Plunger? Yes / No PUMPING					
Producing Thru (Annulus / Tubing) ANNULUS				% C	% Carbon Dioxide				% Nitrogen Gas Gravity - G				
Vertical Depth(H) 4729					Pressure Taps					(Mete	er Run) (F	Prover) Size	
		25/11 2	20 at		(AM) (PM) Taken_7/		26/11 20		at		(AM) (PM)		
Well on Line:		Started 20		0 at	at		Taken		20	at		(AM) (PM)	
					OBSERVE	D SURFACI	E DATA			Duration of Sh	ut-in	Hours	
Static / Dynamic Property	Orifice Size (inches	Meter Prover Press	I	Flowing Temperature	Well Head Temperature t	(P _w) or (P	Pressure	$(P_w) \text{ or } (P_t) \text{ or } (P_\sigma)$		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In		ps.g (,	110100 1120			psig 100	psia	100	psia	24			
Flow													
					FLOW STF	REAM ATTR	IBUTES						
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Mater or Prover Pressure psia Press Extension P _m x h		Gravity T Factor F		Temperature Fa		viation Metered Flor actor R F _{pv} (Mcfd)		w GO (Cubic Barr	FeeV	Flowing Fluid Gravity G _m	
<u> </u>				(OPEN FL	OW) (DELIV	ERABILITY	CALCUL	ATIONS				207	
(P _c)² =		: (P _*)² =	=;	P _d =		% (F	P _c - 14.4) +	14.4 =	:		2 ₆) ² =		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_a)^2$		Choose formula 1 or 2: (P _c) ² - (P _w) ² 1. P _c ² · P _c ² 2. P _c ² - P _d ² divided by: P _c ² - P _w ²		LOG of formula 1. or 2. and divide by:		Backpressure Curve Slope = "n" or Assigned Standard Slope		ln x tog		Antilog	De	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flo			Mcfd @ 14.	65 pgia		Deliverab	allity			Mcfd @ 14.65	neia		
		ned authority, o	on behalf of the		states that h			o make th	e above repo			vledge of	
	•	•	said report is true	•		·			ovember		ر	20 11	
			M			_		Wn	<u> </u>	Hallas	y h	ECHIVED	
		Witness	(ir any)						For	Company	' DE	C 3 0 201	
		For Com	mission			_			Che	ocked by	KC	C WICHI	

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 ELLIS G-4 gas well on the grounds 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
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: 11/10/11
Signature: Win L Hallaugh. 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.