KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type T es	it:				(See Instruct	tions on Rev	verse Side)					
Open Flow					T-15-1			N- 45						
✓ Deliverabilty									l No. 15 007-23080-00-00					
Company WOOLSEY OPERATING COMPANY, LLC					Lease HARBAUGH				Well Number					
County Location BARBER N/2 NE SE				Section 13				RNG (E/	W)	Acres Attributed				
Field RHODES SOUTH				Reservoir MISSISSIPPIAN				Gas Gathering Connection ATLAS						
Completion Date 1/25/07					Plug Bac 5072	k Total Dept	th		Packer Set at NONE					
Casing S 4.500	Size		Weight 10.50		Internal Diameter 4.052		Set at 5115		Perforations 4652		то 4812			
Tubing Size 2.375			Weight 4.70		Internal Diameter 1.995		Set at 4862		Perforations OPEN		То			
Type Completion (Describe) SINGLE				Type Fluid Production WATER				Pump Ur PUMP		Plunger? Yes / No				
Producing Thru (Annulus / Tubing) ANNULUS				% C	% Carbon Dioxide				en	Gas Gravity - G _g				
Vertical C	Depth(H	1)				Press	sure Taps			.	(Meter F	lun) (Pro	ver) Size	
Pressure	Buildu	p: :	Shut in	/15 2	0at		(AM) (PM)	Taken_10	/2/15	20	at	(A	M) (PM)	
Well on L					0 at		(AM) (PM)	Taken		20	at	(A	M) (PM)	
						OBSERVE	D SURFACE	DATA			Duration of Shut-i	n	Hours	
Static / Dynamic Property	Dynamic Size		Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Well Hea Temperature Temperatu		e Wellhead Pressure (P_w) or (P_t) or (P_o)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		Duration (Hours)	Liquid Produced (Barrels)		
Shut-In	.500	_	poig (1 m)	1110103 1120			200			psia	24			
Flow			<u> </u>											
			Circle one:			FLOW STR	EAM ATTRI	BUTES	<u> </u>					
Plate Coefficient (F _b) (F _p) Mcfd			Meter or ver Pressure psia	Press Extension √ P _m x h	Gravity Factor F		Temperature Factor		viation Metered Flactor R F _{pv} (Mcfd)		v GOR (Cubic Fee Barrel)	et/	Flowing Fluid Gravity G _m	
				<u></u>	•	• •	ERABILITY)					= 0.20	7	
(P _c) ² =		<u>-i</u>	(P _w) ² =	Choose formula 1 or 2	P _d =	 ,		_c - 14.4) +	14.4 = <u></u>	:	(P _d) ²	<u>-</u>		
$(P_c)^2 - (P_e)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		 P₀² - P_a² P_c² - P_d² Sivided by: P_a² - P_d² 	LOG of formula 1. or 2. and divide by:	Stope		sure Curve e = "n" or signed ard Slope	nxl	.og	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
										_				
						_	D. II 11		<u> </u>		Marka & 44.051	<u></u>		
Open Flo				Mcfd @ 14.			Deliverabi				Mcfd @ 14.65 psi			
		-	•	behalf of the	•		•			CTOBER	ort and that he has		dge of	
			Witness (if	envi	KANS	Rece	rived FION COMMISS	Jest	<u>L</u>	Alla	lompany			
For Commission						 OCT- 1 6 2015				Checked by				

CONSERVATION DIVISION WICHITA, KS

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 HARBAUGH 1
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 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: 10/9/15
Signature: Win Adultang C 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.

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