KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:		O, I, L		(ctions on Re						
☐ Open Flow ✓ Deliverabilty				Test Date: 9/30/15				API No. 15 15-007-19006-00-00				
Company WOOLSEY OPERATING COMPANY, LLC			Lease HOPKINS, MAN			IS, MAM				We	l Number	
County Location BARBER C SE NW			Section_ 30/	į.	.TWP.			RNG (E/W) 13 W		Acr	es Attributed	
Field PALMER			Reservoir MISSIS		*** #	Gas Gathering Connec ONEOK FIELD SER						
Completion Date 12/23/60			Plug Bac 4569	k Total De	pth	h Packer Set at NONE						
Casing Size Weight 4.500 10.50			Internal E 4.052	Diameter		Set at 4688		Perforations 4555		561		
Tubing Size Weight 2.375 4.70			Internal I 1.995	Diameter		Set at Perfor 4554 OPE		rations N	Т	ō		
Type Completion (Describe) SINGLE			Type Flui OIL / V	d Productio	on	Pump Unit or Trave PUMPING			Plunger?	Yes / I	No	
Producing Thru (Annulus / Tubing) ANNULUS			% Carbon Dioxide				% Nitrogen			Gas Gravity - G _g		
Vertical Depths	(H)				Pre	ssure Taps				(1	Meter Run) (Prover) Size
Pressure Build	up:	Shut in9/29	9/15 2	0at		_ (AM).(PM)	Taken 9/	30/15	20	at		(AM) (PM)
Well on Line:			20) at		_ (AM) (PM)	Taken		20	at		(AM) (PM)
					OBSERV	ED SURFACI	DATA			Duration o	f Shut-in_	Hours
Dynamic S	C Size Meter Diffe		Pressure Differential in Inches H ₂ 0	Temperature Temperatur		I Wallhood Proceture		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Duration (Hours)		Liquid Produced (Barrels)
Shut-In						130	рыя	80	paid	24		-
Flow												
Bl-4-		Circle one:	_		FLOW ST	REAM ATTR	IBUTES	· ·				Flowing
Plate Coeffiecient (F _b) (F _p) Mcfd	Coefficient Meter or E		Press Extension ✓ P _m ×h	Gravity Factor F _g		Temperature Fa		viation Metered Flow actor R F _{pv} (Mcfd)		(Gubic Feet/ Barrel)		Flowing Fluid Gravity G _m
				,	Ì							
		(D.) 2		•	OW) (DELI	VERABILITY					(P _a) ² =	0.207
(P _c)² =	┯╌	(P _w) ² =	Chaose formula 1 or 2:	P _a =	<u> </u>		2 _c - 14.4) +		·		(P _d) ² = _	
$(P_o)^2 - (P_s)^2$ or $(P_o)^2 - (P_g)^2$		(P _o) ² - (P _w) ² 1. P _o ² - P _a ² 2. P _o ² - P _o ² divided by: P _o ² - P _w ²		LOG of formula 1. or 2. and divide by: Pc-Pw		Backpressure Curve Slope = "n"		n x LOG		Antilo	Open Flow Deliverability Equals R x Antilog (Mcfd)	
	-											
Open Flow	Open Flow Mcfd @ 14.65 psia					Dolivorah	Deliverability		Mcfd @ 14.65 psia			
	niana	d authority or	behalf of the		states that			o make th			<u> </u>	nowledge of
the facts stated									CTOBER	T and that)	, 20 <u></u>
		Witness (ii	(any)	KANSAS	Rece S CORPORAT	ived TON COMMISSIO	MAN	n L	Xull For	Dear Company	<_	
		For Comm				6 2015				ked by		

CONSERVATION DIVISION WICHITA, KS

	r penalty of perjury under the laws of the state of Kansas that I am authorized to request er Rule K.A.R. 82-3-304 on behalf of the operator WOOLSEY OPERATING CO, LLC
and that the forego correct to the best of equipment instal I hereby reque	oing pressure information and statements contained on this application form are true and of my knowledge and belief based upon available production summaries and lease records lation and/or upon type of completion or upon use being made of the gas well herein named. st a one-year exemption from open flow testing for the HOPKINS, MAMMIE 1
gas well on the gro	unds 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 to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
Date: 10/9/15	
·	Signature: Wind Sidlags 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.