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## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test				(	See Instruct	ions on Rev	erse Side	)		_		
☐ Open Flow ☐ Deliverability			Test Date: 09/11/13				API No. 15 15-007-23660-0000					
Company					3	Lease			JU1-2366U-U	<u>.                                    </u>	Well N	umber
WOOLSEY OPERATING COMPANY, LLC County Location				HARBAUGH GI Section TWP						Acres	Acres Attributed	
BARBER SE SE SE			13	13 348			12W					
Field STRANATHAN				Reservoir MISSISSIPPI			Gas Gathering Connection APC					
Completion Date 4/21/11			Plug Bac 5063	Plug Back Total Depth 5063			Packer Set at NONE					
Casing Size Weight 4.500 10.50			Internal E 4.052	Diameter	Set a			Perforations To 4668 48		860		
	ubing Size Weight			ernal Diameter		Set at OPEN		Perforations				
2.375 Type Com	npletion (E	4.70 Describe)		1.995 Type Flui	d Production		:IN	Pump Un	it or Traveling	Plunger? Ye	s / No	
SINGLE			ÖIL & '	ÖIL & WATER			Pump Unit or Traveling Plunger? Yes / No PUMPING					
Producing ANNUL		nnulus / Tubin	g)	% C	arbon Dioxid	de		% Nitrog	ėn	Gas	Gravity -	G <sub>g</sub>
Vertical D 4858			<u>.                                    </u>		Press	sure Taps				(Mete	r Run) (F	Prover) Size
Pressure	Buildup:	Shut in09/	11/13 2	0 at_		(AM) (PM)	Taken 09	)/12/13	20	at		(AM) (PM)
Well on L	•		2									
					OBSERVE	D SURFACE	DATA			Duration of Sh	ut-in	Hours
Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressi		Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Wellhe	Tubing ad Pressure (P <sub>1</sub> ) or (P <sub>c</sub> )	Duration (Hours)		id Produced (Barrels)
Shut-In		psig (Pm)	Inches H <sub>2</sub> 0	,		psig 180	psia	psig 150	psia	24	-	
Flow		<del>                                     </del>								,		
					FLOW STR	EAM ATTRI	BUTES			<b>.</b>		
Plate Coeffleci (F <sub>b</sub> ) (F Mcfd	ient p) Pi	Circle one:  Meter or  Prover Pressure psia  Press Extension  ✓ Pm x h		Gravity Factor F <sub>g</sub>		Temperature Fac		viation Metered Flov actor R F <sub>pv</sub> (Mcfd)		GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G <sub>m</sub>
						<u></u>						
(P <sub>c</sub> ) <sup>2</sup> =	:	(P <sub>w</sub> ) <sup>2</sup> =	·:	(OPEN FL	OW) (DELIV 		CALCUL ', - 14.4) +		:		$(a_1)^2 = 0.3$	207
(P <sub>c</sub> ) <sup>2</sup> - (F or (P <sub>c</sub> ) <sup>2</sup> - (F	) <sup>2</sup>	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> Choose formula 1 or 2:  1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>		LOG of formula 1. or 2. and divide by:		Backpressure Curve Slope = "n" or Assigned Standard Slope		n x LOG		Antiloa		ppen Flow iliverability is R x Antilog (Mcfd)
Open Flor	<u> </u>		Mcfd @ 14.	65 psia		Deliverabi	ilitv		<u></u>	Mcfd @ 14.65	nsia	
	•	ad authority o	n behalf of the	· · · · · · · · · · · · · · · · · · ·	etates that h		•	n make th				wledge of
	-	- ·	aid report is true			•			ECEMBER	and that 10		20 <u>13</u> .
						_	Z	Um	l de	Marie	L	<del>CO-MIO</del> I
		Witness (	if any)		_				For C	Company	K	CC-MICI
		For Comn	nission						Chec	cked by	[	DEC 18 20

exempt statu and that the correct to the of equipment I hereby	under penalty of perjury under the laws of the state of Kansas that I am authorized to request a under Rule K.A.R. 82-3-304 on behalf of the operator WOOLSEY OPERATING CO., LLC foregoing pressure information and statements contained on this application form are true and best of my knowledge and belief based upon available production summaries and lease records installation and/or upon type of completion or upon use being made of the gas well herein named. request a one-year exemption from open flow testing for the HARBAUGH 2
I further	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 agree to supply to the best of my ability any and all supporting documents deemed by Commissions sary to corroborate this claim for exemption from testing.
Date: _12/09/	

## 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.