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

Type Test															
Open Flow Deliverability				Test Date			API No. 15								
Company						9/28/14		Lease		15-	007-23363-0	1000 - <u>-</u> -	Well Nu	ımber	
WOOLSEY OPERATING COMPANY, LLC						_		HARBA	UGH		<u>,                                      </u>	F-1			
County Location BARBER 1180' FSL & 21				Section 33		TWP RNG (E/W 33S 11W		W)		Acres A	Attributed				
Field RHODES						Reservoir MISSISSIPPI		Gas Gathering APC		hering Conne	ection				
Completic 10/9/08	l					Plug Back Total Depth 4902		n Packer Set NONE		Set at					
Casing Si 4.500	ZΘ		Weight 10.50			Internal Diameter 4.052		Set at 4943		Perforations 4521		то 4608	_		
Tubing Si 2.375	Ze		Weight 4.70			Internal Diameter 1.995		Set at 4664			Perforations OPEN				
Type Completion (Describe) SINGLE				Type Flui WATE	d Production	n	Pump Unit or Traveling PUMPING		Plunger? Yes	/ No					
Producing Thru (Annulus / Tubing) ANNULUS					% C	% Carbon Dioxide			% Nitrogen Gas			ravity - 0	G <sub>g</sub>		
Vertical D 4564		ļ					Pres	sure Taps				(Meter	Run) (P	rover) Size	
Pressure	Buildup	: :	Shut in 9/2	27/1	14 20	) at		(AM) (PM)	Taken 9/	28/14	20	at		(AM) (PM)	
Well on L	ine:	;	Started									at			
							OBSERVE	D SURFACE	E DATA			Duration of Shut	t-in	Hours	
Static / Dynamic Property			Circle one: Meter Prover Pressure		Pressure Differential in	Flowing Temperature t	Well Head Temperature t	perature Wellhead P		(P <sub>w</sub> ) or (P <sub>1</sub> ) or (F		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In	n		psig (Pm)		Inches H <sub>2</sub> 0			220	psia	psig 0	psia	24			
Flow															
			•			_	FLOW STE	REAM ATTR	IBUTES				•	,	
Plate Coeffieci (F <sub>b</sub> ) (F Mcfd	ent ,)	Circle one: Meter or Prover Pressure psia			Press Grav Extension Fact  √ P <sub>m</sub> xh F <sub>g</sub>		tor	Tomporoturo		viation actor = pv	Metered Flov R (Mcfd)	(Cubic Fe		Flowing Fluid Gravity G <sub>m</sub>	
						(ODEN EL	SWD (DEL W)			1710110					
(P <sub>c</sub> ) <sup>2</sup> =		:	(P <sub>w</sub> )² :	=	:	P <sub>d</sub> =		'ERABILITY' % (F	) CALCUL 2 <sub>e</sub> - 14.4) +		:		$)^2 = 0.2$ $)^2 = $	207	
(P <sub>c</sub> ) <sup>2</sup> - (F	(P <sub>c</sub> ) <sup>2</sup> -(P <sub>d</sub> ) <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> -(P <sub>d</sub> ) <sup>2</sup>		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		nase formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_a^2 - P_d^2$ ded by: $P_c^2 - P_a^2$	LOG of formula 1. or 2. and divide by:		Backpressure Curve Slope = "n" or Assigned Standard Slope		ì	LOG	Antilog	O De	pen Flow liverability s R x Antilog (Mcfd)	
Open Flow Mcfd @ 14.65 psia							Deliverability Mcfd @ 14.65 psia								
	_		•		ehalf of the report is true	•					e above repo	Unit and that he h		20 14 .	
			Witness	(if an	у)	_		_			For	Company KA	NSAS CC	Received PREPARTION COMM	
			For Com	missi	on			_			Che	cked by	nn	T 2 2 2014	

=	alty of perjury under the laws of the state of Kansas that I am authorized to request EK.A.R. 82-3-304 on behalf of the operator WOOLSEY OPERATING CO., LLC
and that the foregoing p correct to the best of my of equipment installation	ressure information and statements contained on this application form are true and knowledge and belief based upon available production summaries and lease records and/or upon type of completion or upon use being made of the gas well herein named. ne-year exemption from open flow testing for the HARBAUGH F-1
is cycle is a second is a second is a second is a second is not	calbed methane producer  cled on plunger lift due to water  cource of natural gas for injection into an oil reservoir undergoing ER  evacuum at the present time; KCC approval Docket No  capable of producing at a daily rate in excess of 250 mcf/D  coply to the best of my ability any and all supporting documents deemed by Commission roborate this claim for exemption from testing.
	Signature: Whi L Wallay 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.