Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test:					(See Instru	ctions on Rev	verse Side)					
Open Flow Deliverabilty			Test Date	: :		API No. 15 15-007-23185-0000								
Company WOOLSEY OPERATING COMPANY, LLC			9/24/14		Lease HARBA					Well Number E-1				
County BARBER			Location 380' FSL & 2210' FEL		Section 23		TWP 34			RNG (E/W) 12W		Acres Attributed		
Field STRANA	THAI	V			Reservoir MISSIS				Gas Gath APC	ering Conne	ection			
Completion Date 9/19/07				Plug Back Total Depth 5275			pth		Packer Set at NONE					
Casing Size 4.500			Weight 10.500		Internal Diameter 4.052			Set at 5161		Perforations 4660		то 4780		
Tubing Size 2.375			Weigh 4.70	t	Internal Di 1,995		liameter Set at 4813		Perforations OPEN		То			
Type Completion (Describe) SINGLE				Type Fluid Production WATER				Pump Unit or Traveling Plunger? Yes / No PUMPING						
Producing ANNUL		(Anr	nulus / Tubing	3)	% C	arbon Dio	xide		% Nitroge	n	Gas	Gravity -	G,	
Vertical D 4720	epth(H	()	<u>.</u>			Pre	essure Taps	-			(Mete	er Run) (F	Prover) Size	
Pressure	Buildu	p: :	9/2	3/14 a	0 at		(AM) (PM)	9/2	24/14	20	at		(AM) (PM)	
Well on Li	ine:		Started	2	0 at		_ (AM) (PM)	Taken		20	at		(AM) (PM)	
			-			OBSERV	ED SURFACI	E DATA		,	Duration of Sh	ut-in	Hours	
Static / Orifice Dynamic Size Property (inches)		e	Gircle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Well Her Temperature Temperat t t		Malihaad Praceura		Tubing Wellhead Pressure (P_w) or (P_1) or (P_a) psig psia		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In						_	200	port	180		24			
Flow				<u> </u>										
			<u>. </u>	<u> </u>	1	FLOW ST	REAM ATTR	BUTES		. –				
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension √ P _m xh	Extension Fact		Flowing Temperature Factor F _{II}	Fa	lation ctor : pv	Metered Flow R (Mcfd)	y GC (Cubic Barr	Feet/	Flowing Fluid Gravity G _m	
		_												
(P _c) ² =		_:	(P _w) ² =	:	(OPEN FLO	, ,	I VERABILITY _% (F) CALCUL ² c - 14.4) +		:		P_a^2 = 0.5	207	
$(P_o)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _q) ² - (P _w) ²		Choose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$	LOG of formula 1, or 2. and divide		Backpressure Curve Slope = "n" pr Assigned Standard Slope				Antilog	C De	Open Flow Deliverability Equals R x Antilog (Mcfd)	
								_				\perp		
Open Flor	N			Mcfd @ 14	.65 <u>psia</u>		Deliverab	ility			Mcfd @ 14.65	psia		
The L	ınders	igned	d authority, o	n behalf of the	Company, s	states that	he is duly au			-	rt and that he	has kno	wledge of	
the facts s	tated t	herei	n, and that sa	aid report is tru	e and correc	t. Execute	ed this the 2	7 	day of O	CTOBER	nn/	\mathcal{T} .	20 14 .	
			Witness (if any)	KANSA	Rece	eived -	W	in R	- Var	-ompany	4		
			For Comn			_		ON		Cho	cked by			
			1-01 COUNT	noofUll		ull j	1 2014			GIIC				

CONSERVATION DIVISION WICHITA, KS

exempt status u and that the fo	nder penalty of perjury under the laws of the state of Kansas that I am authorized to request under Rule K.A.R. 82-3-304 on behalf of the operator WOOLSEY OPERATING CO., LLC regoing pressure information and statements contained on this application form are true and lest of my knowledge and belief based upon available production summaries and lease records
•	stallation and/or upon type of completion or upon use being made of the gas well herein named. quest a one-year exemption from open flow testing for the HARBAUGH E-1
	grounds that said well:
I further ag	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 ree to supply to the best of my ability any and all supporting documents deemed by Commission ary to corroborate this claim for exemption from testing.
	Signature: Wall Sallager 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.