KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:	:				(See Insi	tructions	on Reve	erse Side)				
	en Flov				Test Date	:				API	No. 15			
Del	iverabi	lty			9/10/14					15-0	077-20518-0	00-00		
Company WOOLSEY OPERATING COMPANY, LLC								Lease SANDERS E				1	Well N	umber
County Location HARPER C SW NW				Section 29			TWP 32S		RNG (E/W) 8W			Acres	Attributed	
Field SULLIVA	N EA	ST	<u>-</u>		Reservoir STALNA						hering Conn WICHITA G	ection AS GATHER	ING	
					Plug Bac 3759	Plug Back Total Depth 3759			•	Packer Set at NONE				
Casing Siz 2.875	Casing Size Weight 8.875 6.50			Internal C 2.441	Internal Diameter 2.441			Set at 3799		Perforations 3667		то 3690		
Tubing Size			Weight 2.75	<u> </u>	Internal Diameter 1.610		•	Set at 3723		Perforations OPEN		То		,
Type Completion (Describe) Type					Type Flui	Type Fluid Production WATER			<u> </u>				s / No	
Producing Thru (Annulus / Tubing) % Carbo							Dioxide			% Nitrog		Gas	Gravity -	G _g
ANNULUS Vertical Depth(H) Pr						Pressure	Taps				(Mete	er Run) (f	Prover) Size	
3685			9/9/	14					0/	10/14				
Pressure 1	•		Shut in <u>9/9/</u>									at		
Well on Li	ne:		Started	2	at		(AN	/i) (PM) "	Taken		20	at		(AM) (PM)
			-			OBSE	RVED S	URFACE				Duration of Sh	ut-in	Hours
Static / Dynamic Property	namic Size		Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential re in Inches H _s 0	Flowing We Temperature Tem		(P _w) or (P ₁)		ressure) or (P _c)	(P_w) or (P_1) or (P_a)				rid Produced (Barrels)
Shut-In			paig (r in)	mones ri ₂ 0			40	psig O	psia	peig 80	psia	24		
Flow					_									
			1			FLOW	STREAM	VI ATTRII	BUTES			· .		
Plate Coefficcient (F _b) (F _p) Mcfd		Circle ona: Meter or Prover Pressure psia		Press Extension ✓ P _m x h	Extension Faci		Temp Fa	owing perature actor F _{II}	Deviation Factor F _{pv}		Metered Flor R (Mcfd)	(Cubic	GOR (Cubic Feet/ Barrel)	
					(OPEN FL	OW) (DE	LIVERA	ABILITY)	CALCUL	ATIONS			2.12	007
(P°)5 =		_:_	(P _w) ² =	:	P _d =		%	-	- 14.4) +		:		$(a_0)^2 = 0$	
$(P_c)^2 - (P_s)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) 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: $P_c^2 - P_a^2$	1. P _c ² - P _a ² LOG of formula 2. P _c ² - P _d ² 1. or 2. and divide		2 "	Backpressure Curve Slope = "n" or Assigned Standard Slope		n x	LOG	Antilog	De	Open Flow Diverability Is R x Antilog ((Mcfd)
														_
Ones Fire				Moid @ 44	SE pois	_		eliverabil	lity			Mcfd @ 14.65	neis	
Open Flow		aner	d authority or	Mcfd @ 14.		tates th				o make th		ort and that he		wledge of
		•	- ·	id report is true				-			CTOBER	and that 116		. 20 <u>14</u> .
31	11	.0101	in, and that so	as report to the	, and 001160	<u>L</u>	- tota tillig			Jus k		M. 1-	KANSAS	Received CORPORATION (
-			Witness (i	fany)		-	_	_		us k		Company		OCT 2 2 2
			ForComm	ission		_	_	_			Che	ecked by		NSERVATION DI WICHITA, KS

exempt status und and that the foreg correct to the best of equipment insta I hereby reque	er 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 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 llation 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 SANDERS E-1 ounds 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: 10/15/14	
	Signature: Win & Hallaya. 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.