KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:				(See Instruc	tions on Rev	erse Side))				
Open F	low			71 B-1				ADI	N. 45			
✓ Delivera	abilty			Test Date 10/7/15	3 :				No. 15 007-21002-0	00-00		
Company WOOLSEY	OPER	ATING CO	MPANY, LLC		- ·	Lease RUSK				F-1	Well Nu	ımber
County Location BARBER C S/2 SW			Section 31	_			RNG (E/W) 15W			Acres Attributed		
Field SCHUETTE				Reservoir MISSIS	r SIPPIAN			Gas Gat	hering Conne	ection		
Completion D 10/13/80	ate			Plug Bac 4985	Plug Back Total Depth 4985			Packer S NONE	Set at			
Casing Size Weight 4.500 10.50			Internal D 4.052	Diameter	Set at 4999		Perforations 4958		то 4968			
Tubing Size 2.375			Internal I 1.995	Internal Diameter 1.995		Set at 4948		Perforations OPEN		То		
Type Completion (Describe) SINGLE				Type Fluid Production WATER			Pump Unit or Traveling Plunger? Yes / No PUMPING					
Producing The ANNULUS		nidus / Tubing	g)	% C	arbon Dioxi	de		% Nitrog	en	Gas Gr	avity -	G ₀
Vertical Depth	i(H)				Pres	sure Taps				(Meter	Run) (P	rover) Size
4963 Pressure Build		Shut in10/	5/15 2			(AM) (PM) 1	_{Taken} 10)/7/15	20	at		(AM) (PM)
Well on Line:	•									at		
					OBSERVE	D SURFACE	DATA			Duration of Shut-	-in	Hours
Dynamic S	rifice Size ches)	Circle one: Meter Prover Pressu		Flowing Temperature t	Weil Head Temperature t	Weil Head Casing Tubing Wellhead Pressure Wellhead Pressure Duration Temperature (P.) or (P.)			id Produced Barrels)			
Shut-In .50	00	paig (Fili)	Inches 1120			135	psia	psig 35	_ psia	24		
Flow												
			<u> </u>		FLOW STR	EAM ATTRIE	BUTES		<u> </u>		- '	
Plate Coefficcient (F _b) (F _p) Mcfd		Circle one: Meter or ver Pressure psia	Press Extension P _m x h	Extension Fact		Flowing Temperature Factor F _{ft}	Deviation Factor F _{pv}		Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m
/D \2		(D.)2_		•	• •	ERABILITY)					² = 0.2	107
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(c)2-(P _w)2	2. $P_c^2 - P_d^2$	LOG of formula 1. or 2. and divide		Backpress Slope	sure Curve = "n" or gned	n v I		(F _d)	Op Del Equals	pen Flow liverability s R x Antilog
	-		divided by: Pc*-Pg*	by:	<u>L' 1</u>	Standar	a Stope				_	(MCIO)
		<u></u>					-					- 11
Open Flow	_		Mcfd @ 14.0	65 psia		Deliverabili	ty			Mcfd @ 14.65 psi	ia	
The under	rsigned	authority, or	behalf of the	Company, s	tates that h	e is duly auti				rt and that he ha	ıs know	ledge of
the facts stated	I therei	n, and that sa	aid report is true				- 1	day of <u>O</u>	CTOBER	\mathcal{O}^{-}	,	20 <u>15</u> .
		Witness fil	anv)	KANSA	S CORPORATIO	ON COMMISS <u>IO</u>	Uln		hl lang	Company		
		For Comm			OCT 1 6	2015 _				ked by		
Static / Or Dynamic Property (inc Shut-In .50) Flow Plate Coefficient (F _b) (F _p) Mctd (P _c) ² = (P _c) ² - (P _d) ² Open Flow The under	rifice Size ches) 00 Pro	Circle one: Meter Prover Pressur psig (Pm) Circle one: Meter or ver Pressure psia $(P_w)^2 =$ $(P_w)^2$ If authority, or in, and that sa	Pressura Differential in Inches H ₂ 0 Press Extension P _m x h :: Choose formula 1 or 2: 1. P ₀ ² - P ₂ ² 2. P _c ² - P _d ² divided by: P _c ² - P _g ² Mcfd @ 14. In behalf of the aid report is true	Flowing Temperature t Grav Fact Fact Formula 1. or 2. and divide by: GS psia Company, s and correct	OBSERVE Well Head Temperature t FLOW STR with the states that he scorporation of the scorporation of th	Casir Wellhead P (P _w) or (P _t) psig 135 EEAM ATTRIE Flowing Femperature Factor F _{it} ERABILITY) % (P _c Backpress Slope Standar Deliverabili e is duly autil this the 9 /ed ON COMMISSION	DATA Ig ressure or (Pc) psia BUTES Devi Far F CALCUL - 14.4) + sure Curve = "n" or gned d Slope	Wellhes (P _w) or psig 35	Metered Flow R (Mcfd) e above repo	Duration of Shut- Duration (Hours) 24 GOR (Cubic Fe Barrel) (P _a) (P _d) Antilog	eet/ Liqui Comparison Compar	Flowing Graves G

CONSERVATION DIVISION WICHITA, KS

	der penalty of perjury under the laws of the state of Kansas that I am authorized to request nder Rule K.A.R. 82-3-304 on behalf of the operator WOOLSEY OPERATING CO, LLC
	egoing pressure information and statements contained on this application form are true and
correct to the be	st 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. uest a one-year exemption from open flow testing for the RUSK F-1
	grounds that said well:
(Che	ok one)
(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
7	is not capable of producing at a daily rate in excess of 250 mcf/D
_	ee 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.
Date: 10/9/15	
	Signature: <u>Um L Wallaugh</u> Title: <u>FIELD MGR.</u>

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.

