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

Type Test	:				(	See Instruc	ctions on Re	verse Side	)					
Open Flow  ✓ Deliverability					Test Date:					No. 15				
	_	nty			9/22/15				15-	007-00535-				
Company WOOLS		PER	ATING CON	IPANY, LLC			Lease RATHO	EBER			1	Well Number		
County COMANCHE			Location NESE		Section 31		TWP. 34\$		RNG (E/W)			Acres Attributed		
Field AETNA					Reservoir MISSISSIPPIAN				Gas Gathering Cor ONEOK		ection			
Completion Date 9/30/54				Plug Back Total Dept 4970		oth	h Packer Set NONE		Set at					
Casing Size 5.500			Weight 14.00		Internal Diameter 5.012		Set at 5000		Perforations 4782		то 4843			
Tubing Size 2.375			Weight 4.70		Internal Diameter 1,995		Set at 4918		Perforations OPEN		То			
Type Completion (E SINGLE			escribe)		Type Fluid Production WATER		1		Pump Unit or Traveling PUMPING		Plunger? Yes / No			
Producing Thru (Annulus / Tubing) ANNULUS					% Carbon Dioxide				% Nitrog	jen	Gas Gr	Gas Gravity - G		
Vertical D	epth(H	)				Pres	ssure Taps				(Meter	Run) (Prover) Size		
Pressure	Buildu	p:	Shut in _9/21	/15 20	0 at		. (AM) (PM)	Taken 9/	22/15	20	at	(AM) (PM)		
Well on L	ine:		Started	20	) at		_ (AM) (PM)	Taken		20	at	(AM) (PM)		
						OBSERVI	ED SURFAC	E DATA			Duration of Shut	inHours		
Static / Orifice Dynamic Size Property (inches		8	Circle one: Meter Prover Pressur psig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Well He Temperature t		Wallhaad Pracelling		Wellhe	Tubing pad Pressure r (P <sub>1</sub> ) or (P <sub>c</sub> ) psia	Duration (Houts)	Liquid Produced (Barrels)		
Shut-In	Shut-In .375				_		10	рэги	10	psia	24			
Flow														
	-					FLOW ST	REAM ATTR	IBUTES				1		
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mofd		Circle one: Meter or Prover Pressure psia		Press Extension	Grav Fac F	tor	Flowing Temperature Factor F <sub>It</sub>		iation ctor pv	Metered Flor R (Mcfd)	w GOR (Cubic Fe Barrel)	Gravity		
			·							_	_			
	•					OW) (DELI	VERABILITY					<sup>2</sup> = 0.207		
(P <sub>c</sub> ) <sup>2</sup> ==		<u> </u>	(P <sub>w</sub> ) <sup>2</sup> =	hoose formula 1 or 2:	P <sub>a</sub> =	<del>-</del>		P <sub>c</sub> - 14.4) +	ľ	<del></del> :	(P <sub>d</sub> )	<sup>2</sup> =		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>c</sub> )² - (P <sub>w</sub> )²		1. P <sub>c</sub> <sup>2</sup> -P <sub>s</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup> vided by: P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Backpressure Cu Slope = "n"		ln x LOG		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
					_	_	-	_						
Open Flow Mcfd @ 14.65 ps			65 psia	psia Deliverability				Mcfd @ 14.65 psia						
•		nner	i authority on			tatee that			n make ti	ne ahove ren	ort and that he ha			
			n, and that sai							CTOBER	2	, 20 <u>15</u> .		
			Witness (if		KANSAS	Receiv CORPORATIO	ved ON COMMISSIO	Win	, <i>&amp;</i>	<u> Will</u>	angle_ Company			
		_	For Commis				2015				cked by	_		
					,	:• (•// )     U	, 2010			5110	-			

CONSERVATION DIVISION WICHITA, KS

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request
exempt status under Rule K.A.R. 82-3-304 on behalf of the operator WOOLSEY OPERATING CO, LLC
and that the foregoing pressure information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon available production summaries and lease records of equipment installation and/or upon type of completion or upon use being made of the gas well herein named.  I hereby request a one-year exemption from open flow testing for the RATHGEBER 1
gas well on the grounds that said well:
(Check 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   is not capable of producing at a daily rate in excess of 250 mcf/D   further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.
Signature: <u>Em Redallaga</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.