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

Type Test	t:				(	See Instruct	tions on Re	verse Side	<del>;</del> )					
Open Flow					Test Date	Test Date:				No. 15				
Deliverabilty						08/16/2014				210830001				
Company MERIT ENERGY COMPANY						Lease RENSHAW B							Well Number	
County Location MORTON 660' FNL & 1980' FEL				Section 8		TWP 32S		RNG (E/W) 39W			Acre 640	s Attributed		
Field KINSLER, EAST						Reservoir MORROW L / MORROW S / KEYES			Gas Gathering Connection ONEOK					
Completion Date 12/18/1991					Plug Bac 5954'	Plug Back Total Depth 59541			Packer S	Set at				
Casing Size Weight 5.5" 15.5#					Internal [ 4.950"	Diameter	Set at 5999'		Perforations 5463'		то <b>5904'</b>			
Tubing Size Weight 2.375" 4.7#				nt	Internal Diam 1.995"		r Set at 5754'		Perforations		To	)		
				Type Flui	Type Fluid Production WATER			Pump Unit or Traveling Plunger? Yes / No YES - BEAM PUMP				ю		
Producing Thru (Annulus / Tubing) TUBING					arbon Dioxi	de	% Nitrogen 4.4213%		en	Gas (		' - G <sub>g</sub>		
Vertical Depth(H) 5684'				0.0443	Pressure Taps FLANGE			7.721	<i>37</i> 0	(M		(Prover) Size		
	D. 21.1		AU	G 15	. 14 . 1			A	UG 16	20			(444) (704)	
Pressure Buildup: Well on Line:			Shut in 20											
- TVCII OII L					at		(rust) (1 tst)	Takon			&			
	1	7		<del></del>	r	OBSERVE	D SURFAC		·		Duration of	Shut-in _2	24 Hours	
Static / Orific Dynamic Size Property (Inche		Meter		Pressure Differential	Flowing Temperature	Well Head Temperature	Casing Wellhead Pressure		Tubing Wellhead Pressure $(P_w)$ or $(P_1)$ or $(P_c)$ psig psia		Duration		Liquid Produced (Barrels)	
		Prover Press		in Inches H <sub>2</sub> 0	t	t	(P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> ) psig psia				(Hours)			
Shut-In							96.0	110.4			24			
Flow														
						FLOW STE	REAM ATTE	RIBUTES		l	l			
Plate			Circle one:	Press	Grav	/ity _	Flowing	Dev	riation	Metered Flor	N	GOR	Flowing	
Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> )			Meter ot ver Pressure	Extension  ✓ P <sub>m</sub> x h	Extension Fac  ✓ P <sub>m</sub> x h F		Temperature Factor	I Factor				ibic Feet/ Barrel)	Fluid Gravity	
Mefd			psią <sub>,</sub>	, m, m, m	- m, m		F <sub>ii</sub>		· pv (Micia)				G <sub>m</sub>	
l														
					(OPEN FL	OW) (DELIV		-				(P,)2 =	0.207	
(P <sub>c</sub> ) <sup>2</sup> =	1	_:_	(P <sub>w</sub> )² =	Choase formula 1 or 2	P <sub>d</sub> =	<del></del>		P <sub>c</sub> - 14.4) +	1	;	T	(P <sub>d</sub> ) <sup>2</sup> = _		
(P <sub>c</sub> ) <sup>2</sup> - (P <sub>B</sub> ) <sup>2</sup>		(P	<sub>c</sub> )²- (P <sub>w</sub> )²	1. P <sub>e</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup>			Backpressure C Slope = "n'		l n x LOG		Antilog		Open Flow Deliverability	
or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</sub> ) <sup>2</sup>				2. P <sub>c</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup>	2. P <sub>c</sub> - P <sub>d</sub> 1. or 2. and divide		A:	Assigned					uals R x Antilog (Mcfd)	
				divided by: Pc2 - Pw	2 by:	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	Stan	dard Slope				+	(	
Open Flo	w			Mcfd @ 14.	.65 psia		Delivera	bility			Mcfd @ 14.	65 psia		
The	unders	igned	authority, o	n behalf of the	Company,	states that h	ne is duly a	uthorized t	to make ti	ne above repo	ort and that	he has kr	nowledge of	
the facts s	stated ti	herei	n, and that s	aid report is true	e and correc	t. Executed	I this the _2	?1st	day of N	OVEMBER			_ , 20 _14	
						KCC v	VI∩⊔"	Ta_	МЕ	RIT ENER	GY COM	PANY		
			Witness			NOV-2	h anu	JAN	NA BUR		Company  ama (  cked by	3urton		
			For Com	THISSION		RFC	° 2014 EIVED			Y P	скеа ву			
							~' v ⊂U							

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 MERIT ENERGY COMPANY 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 RENSHAW B 3										
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    I 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.  Date: NOVEMBER 21, 2014										
Signature: JANNA BURTON Jama Burton  Title: REGULATORY ANALYST										

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.