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

Type Tes	t:				(	See Instruc	tions on Reve	erse Side	)						
Op	oen Flo	w													
✓ Deliverabilty						Test Date: 2-14-14			API No. 15 15-115-21378-00-00						
Company Range Oil Co., Inc.						Lease Enns						Well Number			
County Location Marion 1400 FNL & 580 FEL					Section 8		TWP RNG (E/W)			W)		Ac	res Attributed		
Field					Reservoi					hering Conn					
Completion Date						Mississippian Plug Back Total Depth			American Energies Pipeline LLC Packer Set at						
10-8-07		. <u>.</u>			2931										
Casing Size Weight 4 1/2" 10.5				Internal [ 4.052"	Diameter	Set at <b>2931</b>		Perforations 2901			то <b>2907</b>				
Tubing Size Weight 2 3/8" 4.7				Internal [	Internal Diameter Set at 2926			Perforations			ō				
Type Cor	mpletio	n (D			Type Flui water	d Production			Pump Ur	nit or Traveling	Plunger?	Yes /	No		
	g Thru	(An	nulus / Tubir	ng)		% Carbon Dioxide				% Nitrogen			Gas Gravity - G <sub>g</sub>		
tubing  Vertical C	Donth/I	4)			0.06	0.06							n) (Prover) Size		
2931	Jepuni	''				Pressure Taps flanged						3.0"	n) (Flover) Size		
Pressure	Buildu	ıp:	Shut in 2-	10 2	14 at 1			(AM) (2-13		20	14 at 1	0:00	(AM) (E)		
Well on L			Started 2-	13 2	0 <u>14</u> at <u>1</u>	0:00	(AM) (AM)	Taken 2-	14	20	14 at 1	0:00	(AM) <del>(\$200</del>		
		<del></del>				OBSERVE	D SURFACE	DATA	·		Duration o	f Shut-in	72 Hou		
Static / Dynamic	Siz	Orifice Size (inches) Prover Pressure in Pressure Prover Pressure in Pressure Prover Pressure Prover Pressure Prover Pressure Pres		Flowing Temperature	Temperature Temperature		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		on s)	Liquid Produced (Barrels)			
Property Shut-In	(Inch		psig (Pm)	g (Pm) Inches H <sub>2</sub> 0		t ( , , ) (			psig	psig psia					
Flow					60	60 60			120		72		70		
	0.57						100	BUTES	120				70		
Plate Coefficcient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension ✓ P <sub>m</sub> x h	Extension Fac		or Temperature		ation ctor	Metered Flov R (Mcfd)	1	GOR ubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>		
										13					
(P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> ) <sup>2</sup> :	=:	(OPEN FLO		ERABILITY)	CALCUL - 14.4) +		· :		(P <sub>a</sub> ) <sup>2</sup> = (P <sub>d</sub> ) <sup>2</sup> =	0.207		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		Choose formula 1 or 2  1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_a^2$	LOG of formula 1. or 2. and divide	P <sub>c</sub> <sup>2</sup> · P <sub>w</sub> <sup>2</sup>	Backpressure Curve Slope = "n" or Assigned Standard Slope		n x LOG		Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)		
Open Flo				Mcfd @ 14.	65 neia	,	Deliverabili	ь, 13			Mcfd @ 14	65 poio			
•		ianec	d authority (	on behalf of the		tates that h			make th	•			knowledge of		
		_	-	said report is true	, .				day of _M	•	it and that	ne nas	, <sub>20</sub> _14		
						KCC	WICHI		hi )	n. Wa	Ahn	·			
			Witness	(if any)						, For C	Company	. =			
			For Com	mission	* 0	MAK	1 4 2014			Chec	ked by				

exempt and tha correct of equip	status under Rule K.A.R. 82 It the foregoing pressure in to the best of my knowledge oment installation and/or upo	jury under the laws of the state of Kansas that I am authorized to request 2-3-304 on behalf of the operator Range 011 Co., Inc.  Information and statements contained on this application form are true and the and belief based upon available production summaries and lease records on type of completion or upon use being made of the gas well herein named. The semption from open flow testing for the Fig. 3
	ll on the grounds that said w	
	is a source of na is on vacuum at is not capable o	atural gas for injection into an oil reservoir undergoing ER the present time, KCC approval Docket No of producing at a daily rate in excess of 250 mcf/D  best of my ability any and all supporting documents deemed by Commission this claim for exemption from testing.
Date:	3-13-14	
		Signature: John M Washburn  Title: Exploration Mar,

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.

MAR 14 2014

**RECEIVED**