KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:			((See Instruc	tions on Rev	verse Side	·)			
Open Flow			Took Doke.						•		
✓ Deliverabilty			Test Date 3-11-14		API No. 15 15-017-20845-00-00					•	
Company Range Oil Co., Inc.					Lease Palmer				Well Number		
County Location Chase 1850 FSL & 765 FEL		Section 9		TWP 20S		RNG (E/W) 7E		Acres Attributed			
Field	,			Reservoi Tecums	r seh sand				thering Conne an Energies	ection Pipeline LLC	
Completion Date 11-1-03		Plug Back Total Dept 835		th		Packer S	Set at				
Casing S 5 1/2"	asing Size Weight 1/2" 14.0		Internal Diameter		Set at 1770		Perforations 745		To		
Tubing S none	Tubing Size Weight none		Internal Diameter		Set at F		Perfo	rations	То		
Type Cor perf	npletion	(Describe)		Type Flui water	id Production	n	,	Pump U	nit or Traveling	Plunger? Yes	/ No
Producing Thru (Annulus / Tubing) 1770' casing			% (0.04	Carbon Dioxi	de	% Nitrogen 30.86			Gas Gravity - G _g 0.6968		
Vertical D	Depth(H)				Pres flang	sure Taps jed				(Meter I 3.0"	Run) (Prover) Size
Pressure	Buildup:			13 at 1		(AM) (रिस्प्र)				14 at 10:00	(AM) (PW)
Well on L	.ine:	Started 3-1	02	0 <u>14</u> at <u>1</u>	0:00	(AM) (EM)	Taken 3-	11	20	14 at 10:00	(AM) (PM)
					OBSERVE	D SURFACE				Duration of Shut-	in 1656 Hours
Static / Orific Dynamic Size Property (inche		Meter Differential		Flowing Well Head Temperature t t		Casing Wellhead Pressure (P_w) or (P_t) or (P_c) psig psia		Tubing Wellhead Pressure (P_w) or (P_1) or (P_c) psig psia		Duration (Hours)	Liquid Produced (Barrels)
Shut-In				·		230	pole	porg	pou	1656	
Flow	0.625			60	60	200			,	24	none
ſ		· · · · · · · · · · · · · · · · · · ·	<u> </u>	1	FLOW STR	EAM ATTR	BUTES				
Plate Coefficeient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia	Press Extension P _m xh	Grav Fac F,	tor	emperature Fac		iation Metered Flow ctor R (Mcfd)		W GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
									26		
				(OPEN FL	OW) (DELIV	ERABILITY)	CALCUL	ATIONS		(P_)	2 = 0.207
(P _c) ² =		: (P _w) ² =	:;	P _d =		% (P	c - 14.4) +	14.4 =	:	(P _a);	
(P _c) ² - (I or (P _c) ² - (I	a,	(P _c) ² - (P _w) ²	Choose formula 1 or 2 1. $P_c^2 - P_s^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide	P _c ² -P _w ²	Slop Ass	ssure Curve le = "n" orsigned ard Slope	n x	rog	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
0 5				1			26				
Open Flo			Mcfd @ 14.			Deliverabi				Mcfd @ 14.65 psi	
			n behalf of the						ne above repo larch	rt and that he ha	s knowledge of
						WICH)/	m	mal.	
		Witness (if any)	· ·		_		~~~	For C	mpany	
		For Comm	nission		MAR	14 20	4	•	Chec	ked by	

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 Range Oil Co., Inc., 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 Ralmer and Salmer gas well on the grounds 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
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: 3-13-14
Signature: John M. Waddum Title: Exploration 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.

MAR 14 2014