KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:			(See Instruct	ions on Rev	rerse Side))					
Open Flow			Test Date);				No. 15					
✓ Deliverabilty				5-10-1	2	Lance	15-017-20845-00-00 Well Number						
Company Range Oil Co., Inc.							Palmer				1		
County Location Chase 1850' FSL & 765' FEL			Section 9		TWP 20S	20S 7E					Acres Attributed		
Field				Reservoir Tecum	seh sand		Gas Gathering Connection American Energies Pipeline LLC						
Completic				Plug Bac 835'	k Total Dept	h		Packer S	et at				
Casing Size 5 1/2"		Weight 14.0		Internal Diameter		Set at 1770'		Perforations 745'		то 752 '			
Tubing Size		Weig	Weight		Internal Diameter				rations	То			
Type Completion (Describe) perf Single (Gas)				Type Flui water	d Production	1	Pump Unit or Travel			,			
Producing Time (Annulus / Tubing)			ıg)	% C 0,04	arbon Dioxi	de	% Nitrogen O 30.86			Gas Gravity - G _a 0.6968			
Vertical D	1770 Pepth(H)	<u> </u>		0.04	Press	sure Taps		30.00		(Meter I	Run) (Prov	rer) Size	
2931'					flang					3.0"			
Pressure Buildup:				0 12 at 10:00					20		(AN	A) (4	
Well on L	ine:	Started 5-1	10 20	12 at 1	0:00	(AM) (MA)	Taken 5-	11	20	12 at 10:00	(A	Л) (РМ)	
				<u>.</u>	OBSERVE	D SURFACE	DATA			Duration of Shut-	_{in_} 72	Hours	
Static / Dynamic Property	Orifice Size (inches	Prover Press		Flowing Welt Hea Temperature Temperature		(P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)		
Shut-In		psig (Pm)	Inches H ₂ 0			220	psia	psig	psia	72			
Flow	0.625	5		60	60	142				24	none		
					FLOW STR	EAM ATTRI	BUTES						
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or trover Pressure psia Press Extension Pmxh		Gravity Factor F _g		Flowing Femperature Factor F _{rt}	Deviation Factor F _{pv}		Metered Flov R (Mcfd)	GOR (Cubic Fe Barrel)	et/	Flowing Fluid Gravity G _m	
									90				
L-1.00.41**				(OPEN FL	OW) (DELIV						² = 0.207		
(P _c) ² =		: (P _w) ² :		P _d =		% (P	<u>- 14.4) +</u>	14.4 =	 :	(P _d)	² =		
$(P_c)^2 - (P_n)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²	Choose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide	P.2. P.2	Backpressure Curve Slope = "n" or Assigned Standard Slope		nxi	.og	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
					- MARVII .								
Open Flow Mcfd @ 14.65 psia					Deliverability 90				Mcfd @ 14.65 psia				
		ned authority.			states that h	e is duly au	thorized to	make th	e above repo	rt and that he ha	s knowled	ige of	
			said report is true		t. Executed	this the 9t		day of A		\ 0	, 20		
		Manager	(if any)	· · · · · · · · · · · · · · · · · · ·	ANSAS CORP	RECEIVED PORATION CO	MMISSION	John	- M.	Washing		· · · · · · · · · · · · · · · · · · ·	
		Witness			API	R 1 1 20	13		· · · · · · · · · · · · · · · · · · ·	cked by			
		For Com	MISSION						0.10	•			

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 Range Oil Co., Inc. and that the foregoing pressure information and statements contained on this application form are true a correct to the best of my knowledge and belief based upon available production summaries and lease record 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 Palmer #1 gas well on the grounds that said well:	nd ds
(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 Commistaff as necessary to corroborate this claim for exemption from testing.	ssion
Date: 4-9-13 Signature:	_

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.