KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Ps.

Type Test	:			(-	See Instruct	ions on Reve	erse Side,)				
Op-	en Flow				and the same of th							
					Test Date: API No. 8-12-11 017-2				10. 15 -20,838 ~	-()()()()		
Company				0 ,2 ,	·	Lease					Well Number	
		ge Oil Comp	any			Roberts	Α			3		
County Location Chase 1600' FSL & 1300' FWL			Section 13			TWP 1		/)	,	Acres Attributed		
			Reservoir Calhou	Reservoir Calhoun sand		Gas Gathering Con American Energ				LC		
Completion Date			Plug Back Total Depth 865'		h		Packer Se	t at				
Casing Size Weight 5 1/2" 15#		Internat C	Internal Diameter		Set at 865'		itions	то 590'				
Tubing Size Weight		Internal C	Internal Diameter		Set at		ations	То				
Type Com		(Describe)		Type Fluid water	d Production	ו		Pump Unit	or Traveling	Plunger? Yes	/ No	
Producing	Thru (Annulus / Tubing))	% C	% Carbon Dioxide			% Nitrogen		Gas Gravity - G		
casing only			0.0509	0.0509			24.17		0.671	•		
Vertical Depth(H)				Pressure Taps					(Meter I	Run) (Prover) Size		
865'					flang					3 inch	es	
Pressure	Buildup:	Shut in	12	0_11_at_1	0:15	(AM) (MA)	Taken_8-	12	20	11 at 10:15	(AM) (AM)	
Well on L	ine:	Started 8-1		11 at 10	0:15	(AM)	Taken <u>8-</u>	13	20	11 at 10:15	(AM)	
					ODCEDVE	D CUDEACE	0474			5 (5) .	. 24	
		Circle one:	Pressure		[<u>-</u>	D SURFACE Casir		Tu	hina	Duration of Shut-	in Hours	
Static / Orifice Dynamic Size Property (inches		Meter	Differential	Flowing Temperature	Well Head Temperature	ad Wellhead Pressure		Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) psig psia		Duration	Liquid Produced	
		i) Prover Pressu psig (Pm)	in Inches H ₂ 0	t	t					(Hours)	(Barrols)	
Shut-In		· · · · · · ·	2			74	psia	paig	psia	24		
Flow	0.37	5	· · · · · · · · · · · · · · · · · · ·	60	60	24			<u> </u>	24	none	
l		<u>- 1</u>				EAM ATTRI	BUTES	l	1			
	i	Circle one:	_		12011 311	•	1	Т			Flouring	
Plate Coeffied		Mater of	Press Extension	Grav Fact		Flowing Temperature		ation	Metered Flor	W GOR (Cubic Fe	Flowing Fluid	
(F _b) (F _p)		Prover Pressure psia	√ P _m xh	F		Factor F ₁₁		pv .	(Mcfd)	Barrel)	Gravity G	
Mcfd		pola		 		<u>'"</u>			7		- J	
				(OPEN FL	OW) (DELIV	ERABILITY)	CALCUL		•	(P)	² = 0.207	
(P _c) ² =	<u> </u>	: (P _w) ² =	:	P _d =		% (P _.	- 14.4) +	14.4 =	;	(P,)		
(P _c)²-(I	P _a) ²	(P _e) ² - (P _w) ²	Choose formula 1 or 2 1. P _c ² - P _s ²	LOG of formula		Slope	sure Curve e = "n"	n x Lo	og \		Open Flow Deliverability	
(P _e) ² - (I or (P _e) ² - (I	P _a) ²		2. P _c ² -P _d ²	1. or 2. and divide	P.2. P.3	Ass	or igned	`		Antilog	Equals R x Antilog	
			divided by: Pc2 - Pw	by.	<u> </u>	Standa	rd Slope				(McId)	
			 									
Open Flo	w	^-	Mcfd @ 14.	65 psia		Deliverabi	lity		7	Mcfd @ 14.65 ps	ia /	
The	undersig	ned authority, o	n behalf of the	Company, s	states that h	e is duly aut	thorized to	o make the	above repo	ort and that he ha	as knowledge of	
the facts s	tated the	erein, and that sa	aid report is true	and correc	t. Executed	17 <u>ي</u> واز واطع	, 	day of Au	ugust		, 20 <u>11</u> .	
								John	m	Wachhan	~	
		Witness (t any)		AUG	1 8 2011		/	For	Company		

KCC WICHITA

exempt status under Rul and that the foregoing p correct to the best of my	ralty of perjury under the laws of the state of Kansas that I am authorized to request the K.A.R. 82-3-304 on behalf of the operator Range Oil Company, Inc. Diversely the contained on this application form are true and knowledge and belief based upon available production summaries and lease records
, ,	n and/or upon type of completion or upon use being made of the gas well herein named.
	ne-year exemption from open flow testing for the #3 Roberts A
gas well on the grounds	that said well:
is cycles is a second is a second is on is no	coalbed methane producer cled on plunger lift due to water source of natural gas for injection into an oil reservoir undergoing ER vacuum at the present time; KCC approval Docket No t capable of producing at a daily rate in excess of 250 mcf/D apply to the best of my ability any and all supporting documents deemed by Commission proborate this claim for exemption from testing.
Date: 8-17-11	
	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.