KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:		•		(See Instruc	tions on Rev	erse Side)						
Op	oen Flo	wc			T4 D-4				4.50	N. 45					
√ De	eliveral	bilty			Test Date 2-25-14					No. 15 113-21296-0	00-00	,	•		
Company Range Oil Co., Inc.					Lease Ratzlaff			1				Well Number			
County Location McPherson W/2 NW/4 SW/4			Section 34		TWP 19S		RNG (E/W) 1W				Acres Attributed				
Field					Reservoir Mississippian			Gas Gathering Connection American Energies Pipeline LLC							
Completion Date 3-9-05				Plug Bac 2993	Plug Back Total Depth 2993				Set at		·				
Casing Size 4 1/2"			Weig 10.5	ht	Internal Diameter 4.052"		Set at 2991		Perforations 2959		то 2969				
Tubing Size 2 3/8"			Weight 4.7		Internal [Internal Diameter		Set at 2986		Perforations					
Type Cor	npletic	on (D	escribe)	· · ·	Type Flui water	d Production			Pump Ur	nit or Traveling	Plunger	? Yes	/ No		
Producing Thru (Annulus / Tubing) tubing					% Carbon Dioxide							as Gravity - G _g			
Vertical E	Depth(H)	4		0.00	V.Ub Pressure Taps							(Meter Run) (Prover) Size		
2959						flang	•					3.0"	(1		
Pressure Buildup:		up:								20	at_		(AM) (РЖ)	
Well on L	_ine:		Started 2-2	24 2	0 at	J:00 	(AM) (Taken 2-	25	20	14 at _	10:00	(AM) (PAM)	
	1		T			OBSERVE	D SURFACE	DATA	-		Duration	of Shut-	_{in_} 48	Hours	
Static / Dynamic Property	Dynamic Size		Circle one: Meter Prover Press psig (Pm)		Flowing Temperature t	Temperature Temperature		(P_w) or (P_t) or (P_c) (P_w)		fubing ad Pressure r (P ₁) or (P _c)		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In	Shut-In			2				psia	90	psia	48				
Flow 0.50		0			60	60	110		80		24		3		
ſ 				· · · · · · · · · · · · · · · · · · ·		FLOW STR	REAM ATTRIE	BUTES	r				-		
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension ✓ P _m x h	Extension Factor		i Temperature i		rector H (Mcfd)		ow GOR (Cubic Fe Barrel)			Flowing Fluid Gravity G _m	
										20					
(P _c) ² =			(P _w) ² =	_	(OPEN FLO		'ERABILITY)	CALCUL - 14.4) +				(P _a)	² = 0.2	07	
$(P_c)^2 - (P_a)^2$ 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	LOG of formula 1. or 2. and divide	P.2. P.2	Backpressure Curve Slope = "n" or Assigned Standard Slope		e n x l OG		Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)		
				divided by: P _c ² - P _w ²	. Бу:		Stanuar	- Globe						/	
Open Flor	w			Mcfd @ 14.	65 psia		Deliverabil	ty 20		1	Mcfd @ 1	14.65 ps	ia		
The i	unders	signed	d authority, o	n behalf of the	Company, s	tates that h	e is duly auti			•	rt and th	at he ha	s know	edge of	
the facts s	tated t	herei	n, and that s	aid report is true	and correct	. Executed	this the 13t	h	say of M	arch .	~			20 14 .	
			Witness (if any)		Kec	WICH	ITA	tohn	For C	and company	lim	<u>~</u>		
,			For Comm	nission		MAF	R 14 201	4		Chec	ked by				

RECEIVED

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 0:1 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
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:3 - 13 - 14
Signature: John M. Washlim
Signature: John M. Washhum 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.

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