KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

L,

Type Tes	t:				(See Instruct	ions on Re	verse Side)				
Op	en Flo	w			Test Date				ADI	No. 15			
De	liverab	ilty			1/17/13	5.			077	21,472 <i>(</i>)	77-2	1039	-00-01
Company Oil Prod		Inc.	of Kansas				Lease Caroth	ers A				1 W	ell Number
County Harper			Location 100' NE	of SW/SE	Section 23		TWP 33S		RNG (E/	W)		Ac	ores Attributed
Field Stohrvill	е				Reservoir Mississi		·		Gas Gatt Atlas Pi	nering Conr peline	ection		RECEIVED
Completi 8/10/93	on Dat	le			Plug Bac 4445	k Total Dept	h		Packer S none	et at			1AR 0 4 20 1
Casing S 4.5	iiz e		Weight 9.5#		Internal 0 4.090	Diameter	Set 444		Perfor 4359	rations		™ KC 4399	C WICHI
Tubing S 2.375	ize		Weight 4.7		internal 0	Diameter	Set 437		Perfor	rations		To 4370	
Type Cor single	npletio	n (D	escribe)		Type Flui water	d Production)			it or Traveling	g Plunger?	Yes /	No
	_	(Ani	nulus / Tubing)			arbon Dioxi	de		% Nitroge	en		Gas Grav	rity - G _g
annulus Vertical C		4			.26	Prop	sure Taps		4.41			/Motor Di	ın) (Prover) Size
Vertical L	nyuqac	")				flang	•					2"	in) (Flovel) Size
Pressure	Buildu	ıp:	Shut in	2	0 13 at 1			Taken_1/	17	20	13 at_	10:45 ar	11 (AM) (PM)
Well on L	.ine:		Started	2	0 at	 -	(AM) (PM)	Taken	 	20	at _	<u>-</u>	(AM) (PM)
						OBSERVE	D SURFAC	E DATA			Duration	of Shut-in	24 Hour
Static /	Orifi	ice	Circle one:	Pressure	Flowing	Well Head	1	sing	1	ubing		Ī	
Dynamic	Siz	18	Meter Prover Pressure	Differential in	Temperature	Temperature	l .	Pressure P,) or (P _c)	1	od Pressure (P _c) or (P _c)	Dura Hou	I	Liquid Produced (Barrels)
Property	(inch)	psig (Pm)	Inches H ₂ 0	t	t	psig	psia	psig	psia			·
Shut-in							155.3	169.7			24		
Flow							<u> </u>						
	1					FLOW STR	EAM ATTR	BUTES			- 1	_, , , ,	
Plate Coeffied	- 1		Circle one: Meter or	Press Extension	Grav	· I T	Flowing emperature	Dev	riation	Metered Flo		GOR	Flowing Fluid
(F _b) (F	(م	Pro	over Pressure	✓ P _m xh	Fact F	tor '	Factor		ctor R = (Mcfd)		'	Cubic Feet/ Barrel)	Gravity
Mcfd	1		psia	m	•	<u></u>	F,,		-				G _m
					(OPEN FL	OW) (DELIV	ERABILITY	') CALCUL	ATIONS		<u> </u>	(D \2 -	= 0.207
(P _c) ² =		_:	(P _w) ² =	:	P _d =	9	% (f	P _c - 14.4) +	14.4 =	:		(P _d) ² =	
$(P_c)^2 - (P_c)^2$		(F	c, ,, m, }	: noose tormula 1 or 2 1. P _c ² - P _a ²	formula		Slo	essure Curve pe = "n" - or	l n x i	.og	Antil	loa	Open Flow Deliverability
(P _c)2-(P _d) ²			2. $P_c^2 - P_d^2$ inded by: $P_c^2 - P_w$	1. or 2. and divide by:	P _c ² -P _w ²	As	ssigned lard Slope					Equals R x Antilog (Mcfd)
Open Flo	w			Mcfd @ 14	65 psia		Deliverat	oility			Mcfd @ 1	4.65 psia	
The	unders	igne	d authority, on	behalf of the	Company. s	states that h	e is dulv a	uthorized t	om ø ke th	e above repo	ort and tha	at he has	knowledge of
		•	in, and that said				•		// .	inuary			∀ FD ⁰ 13
								/.	Jun 7	PVL		~ (r 2020
	· · · · · · · · · · · · · · · · · · ·		Witness (if a	ny)				(ech,	IV C Far	Company	1.01	a ZUIS

KCC WICHITA

· · · · · · · · · · · · · · · · · · ·	of perjury under the laws of the state of Kansas that I am authorized to request a.R. 82-3-304 on behalf of the operator Oil Producers Inc. of Kansas
	ure information and statements contained on this application form are true and
correct to the best of my know	viedge 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-ye	ear exemption from open flow testing for the Carothers A-1
gas well on the grounds that	
(0)	
(Check one)	ed methane producer
<u></u>	·
<u></u>	on plunger lift due to water
	e of natural gas for injection into an oil reservoir undergoing ER
	um at the present time; KCC approval Docket No
✓ is not capa	able of producing at a daily rate in excess of 250 mcf/D
	to the best of my ability any and all supporting documents deemed by Commission
	erate this claim for exemption from testing.

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 resulting 1.5 2013