KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(See Instruct	tions on Re	everse Side)					
✓ Op	en Flov	v				•								
De	liverabi	lty	\		Test Date 8/14/20					No. 15)77- 0:1-009 /	9,028-000	ł		
Company		Or	perating, In	nc.			Lease Brumr	ner, Joe			1-2	Well Nu	mber	
County Harper		Location 1980' FSL & 19		on .	Section L 2		TWP 31S		RNG (E/W) 9W			Acres A	ttributed.	
Field Spivey-	-Grab	s			Reservoi Missis	r sippian				nering Conn Energy Ser				
Completion Date 1/14/60		e ·			Plug Bac 4473	k Total Dept	th		Packer Set at					
Casing Size 4.5		Weight 9.5			Internal E 4.090			Set at 4485		rations	To 4470			
Tubing Size 2.375		Weight 4.7			Internal E		Set	at	Perforations		То		.	
Type Completion Single Gas		in (Describe)			Type Flui Water	d Production				mp Unit or Traveling Plunger ump Unit		r? Yes / No		
Producing	g Thru	(Anı	nulus / Tubing)	° % C	Carbon Dioxi	de		% Nitrog		Gas G	ravity - C	ì,	
Annulus				•										
Vertical E 4486	Depth(H)				Pres	sure Taps	_			(Mete <u>r</u>	Run) (Pi	over) Size	
Pressure	Buildur	o: :	Shut in 8/14	2	13 at 1	1:00	(AM) (PM)	Taken_8/	15	20	13 at 11:00	(AM) (PM)	
Well on L	.ine:		Started	2	0 at		(AM) (PM)	Taken		20	at	(AM) (PM)	
				•		OBSERVE	D SURFAC	E DATA			Duration of Shut	-in_24	Hours	
Static / Dynamic Property	ynamic Size		Circle one: Meter Prover Pressur		Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	1 '	Liquid Produced (Barrels)	
Shut-In	,		psig (Pm)	Inches H ₂ 0			psig psia 110 124.4		psig 0	psia 14.4	24	1	-	
Flow		···												
						FLOW STR	EAM ATT	RIBUTES			·			
Plate Coeffiec (F _b) (F Mcfd	ient p)	Circle one: Meter or Prover Pressure psia		Press Extension P _m xh	Grav Fac F	or Temperature		Deviation Factor F _{pv}		Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G _m	
(D.)3			(D.)			OW) (DELIV		-)2 = 0.2	07	
(P _c) ² =	г	<u>-</u> :	(P _w) ² =_	Choose formula 1 or 2	P _d =		-	P _c - 14.4) +		 :	(P _d) ² =		
(P _c) ² - (I or (P _c) ² - (I		(P _c) ² - (P _w) ² .		1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$	LOG of formula 1. or 2.	P _c ² -P _w ²	Backpres Slop		nxL	.og	 Antilog	Deli Equals	Open Flow Deliverability Equals R x Antilog (Mcfd)	
			1 0	fivided by: P _c ² - P _w	by:		Stand	dard Slope	•			· · · · ·		
		,											 	
Open Flow Mcfd @ 14.65 ps			65 psia	psia Deliverability			Mcfd @ 14.65 psia							
The i	undersi	gned	d authority, on	behalf of the	Company, s	states that h	e is duly a	uthorized t	o make th	e above repo	ort and that he h	as know	edge of	
				id report is true							· .		20 13	
·····			Witness (if	any)		<u> </u>				For	Company		~ \A(IC	
			For Commi	ssion		· · · · · · · · · · · · · · · · · · ·				Che	cked by	NU	C WIC	

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,	penalty of perjury under the laws of the state of Kansas that I am authorized to request Rule K.A.R. 82-3-304 on behalf of the operator Chesapeake Operating, Inc
	ng 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
	tion and/or upon type of completion or upon use being made of the gas well herein named.
	a one-year exemption from open flow testing for the Brummer, Joe "A" 1-2
gas well on the grour	ids that said well:
(Check on	
	a coalbed methane producer
	cycled on plunger lift due to water
	a source of natural gas for injection into an oil reservoir undergoing ER
<u></u>	on vacuum at the present time; KCC approval Docket No.
	not capable of producing at a daily rate in excess of 250 mcf/D
لحنا	
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: 12/11/2013	
Date.	
	Signature: Sough Down Luck
	Title: Sarah Rodriguez, Regulatory Analyst

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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