KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:				(-	See instruct	ions on Re	verse Side)						
□ Ор	en Flov	٧			Test Date				ADI N	lo. 15	_	. ~			
De	liverabi	lty			4/20/201					-21313 <i>-</i> (000	\mathcal{C}			
Company		Or	erating, In	С.		-	Lease Donald	l Muir G	 υ			2-16	Vell Numb	oer	
County Location Harper NW SE SW				Section 16		TWP 31S		RNG (E/W) 9W		Acres Attribute			lbuted		
Field Spivey-Grabs					Reservoir Mississippi			Gas Gathering Connection OneOk Energy Service							
Completion Date 2/9/97				Plug Back 4748	Plug Back Total Depth 4748			Packer Se							
	Casing Size Weight			Internal C	Diameter	Set at 4807		Perforations 4470			то 4499				
	ubing Size Weight				Internal E 1.995	Diameter	Set at 4480		Perfora		То				
Type Con Single (ı (De				d Production			Pump Uni Pump l	t or Traveling Unit	Plunger	? Yes	/ No		
	g Thru	(Anr	nulus / Tubing			arbon Dioxi	de		% Nitroge		-	Gas Gra	avity · G _e		
Vertical C)			····	Pres	sure Taps						Run) (Prov	rer) Size	
4700	-,-,-	•				Flan	•			····		3.0			
Pressure	Buildu	p: :	Shut in 4/20	2	0 11 at 1	0	(AM) (PM)	Taken_4/	21	20	11 at.	10	(A!	И) (PM)	
Well on L	ine:	:	Started	2	0 at		(AM) (PM)	Taken		20	at .		(Al	и) (PM)	
						OBSERVE	D SURFAC	E DATA			Duration	of Shut-	_{in 24}	Hours	
Static / Dynamic Property	Dynamic Size		Circle one: Meter Prover Pressur psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Well Head Temperature t		Casing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		Duration (Hours)		Liquid Produced (Barrels)		
Shut-In							79	93.4	55	69.4	24				
Flow													Ī <u>.</u>	_	
						FLOW STR	REAM ATT	RIBUTES							
Plate Coefflecient (F _b) (F _p) Motd		Circle one: Matar or Prover Pressure psia		Press Extension ✓ P _m xh	Grav Fac F	tor	Tomporotuco		riation actor	Metered Flow R (Mcfd)		GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G _m	
												<u>.</u>			
(D. 10			4D 12		•	OW) (DELIV		•				_	² = 0.207	,	
$(P_c)^2 = \frac{(P_a)^2 \cdot (P_a)^2}{\text{or}}$ $(P_a)^2 \cdot (P_a)^2$		(P _w) ² (P _w) ²		thoose formula 1 or 2 1. P ₂ ² -P ₂ ² 2. P ₂ ² -P ₃ ² wided by: P ₂ ² -P ₃ ²	LOG of formula 1, or 2, and divide		Backpressure Curve Slope = "n"		- T	og [An	(P _d) ² Antilog		Open Flow Deliverability Equals R x Anillog (Mcfd)	
					1		1						<u> </u>		
Open Flo	w			Mcfd @ 14.	.65 psia		Delivera	bility			Mcfd @	14.65 psi	ia		
		•	•	behalf of the			-		day of Ju		ort and th	hat he ha		dge of	
	- *								. —				-REC		
			Witness (il								Company				
			For Commi	ssion						Che	cked by		JET	062	

	or penalty of perjury under the laws of the state of Kansas that I am authorized to request er Rule K.A.R. 82-3-304 on behalf of the operator <u>Chesapeake Operating</u> , Inc
and that the foreg correct to the best of equipment insta I hereby reque	oing pressure information and statements contained on this application form are true and of my knowledge and belief based upon available production summaries and lease records allation and/or upon type of completion or upon use being made of the gas well herein named. Set a one-year exemption from open flow testing for the Muir, Donald 2-16 bounds that said well:
_	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 to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
Date: <u>July 8, 201</u>	Signature: David Wiist, Production Engineer

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.

RECEIVED

SEP 0 6 2011

KCC WICHITA