Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test	:		•	(See Instruci	tions on Re	everse Side)		: -			
√ Op	en Flow,			Test Date	,.			ΔD1 F	No. 15			٠.	
Deliverabilty ::		8/16/2015		•			API No. 15 15-189-21621 - 0000			<u> </u>			
Company Chesape	ake Op	erating, L.L.C.	.·. . ;:		-	Lease Alderr	man		. ~.	:	3-11	Vell Numb	er
County Stevens	3	Location 1980 FNL	8 660 FWL	Section 11		TWP 33S		RNG (E/V 35W	V)			cres Attr	
Field Northwe	oods S	E		Reservoir Morrov					ering Conne Field Servic	ection es .	K	CC 14	
Completion Date 8/19/96			Plug Back Total Depth		th .			Packer Set at		Ces KCC WCC OCT 2 6 20 5962 RECEIVED		CHI	
Casing Si 5 1/2	ize	Weight 15.5		Internal D 4.950	Diameter	Set 630		Perfora		,	™ 5962 √	ECE.	2015
	Tubing Size Weight		Internal Diameter		Set at 6003		Perforations;		::	То	<u>~&</u> /[ED.	
Type Con Gas	npletion (d Production		177	Pump Uni Pump l	t or Traveling Jnit	Plunger	? Yes	' No	
	•	nnulus / Tubing)	· · ·	% C	arbon Dioxi	de		% Nitroge			Gas Gra	vity - G _g	
Vertical D		· · · · · · · · · · · · · · · · · · ·			Præ	sure Taps	• •					un) (Prov	er) Size
6300	epui(ii)		•	·,			<u> </u>	· · · · · ·			· .		
Pressure	Buildup:	Shut in <u>8/15</u>	2	o 15 at 8	:00	(AM) (PM)	Taken_8/		20	15 at_	3:00	(AN	(PM)
Well on L	ine:	Started	2	0 at	<u>·</u>	(AM) (PM)	Taken	:		at_		(AN	1) (PM)
			· · · · · ·		OBSERVE	D SURFAC	CE DATA			Duration	of Shut-i	24 .	Hours
Static / Dynamic Property	namic Size Prover Pressure in		Flowing , Well Head : Temperature t t		Casing Wellhead Pressure (P _w) or (P _t) or (P _c)				Duration (Hours)		Liquid Produced (Barrels)		
Shut-In .	ı	;			· .	28	42.4	8.	22.4	24	· ·		
Flow	•	·	, . ,										
			·.· .	.,	FLOW STE	REAM ATTI	RIBUTES		· 				•
Plate Coeffiect (F _b) (F Mcfd	ient	Circle one: Meter or Prover Pressure psia	Press Extension ✓ P _m x h	Grav Fac	rity .	Flowing Temperature Factor F _{f1}	Fą	iation ctor pv	Metered Flov R (Mcfd)		GOR (Cubic Fee Barrel)	i .	Flowing Fluid Gravity G _m
			· · · · · · · · · · · · · · · · · · ·			· .							
(5.10		479.30			OW) (DELIV	•			·	4		= 0.207	
(P _c) ² =	: T	(P _w) ² =	noose formula 1 or 2	P _d =		1	(P _c - 14.4) +	- T			(P _d) ²	" —	-
$ \begin{array}{c cccc} (P_e)^2 - (P_a)^2 & (P_e)^2 - (P_w)^2 & 1. \ P_e^2 - P_a^2 \\ or & & & \\ (P_e)^2 - (P_d)^2 & & & \\ & & & \\ \end{array} $		LOG of formula 1. or 2, and divide p 2. p 2		Backpressure Curve Slope = "n" or Assigned		n x LOG		Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)			
	+	di	rided by: P _c ² - P _w	by:	<u>L. "1</u>	Stan	dard Slope	<u>'</u>				: (181	
•	+		:	1.		-	•				. •		:
Open Flo	 w	:	Mcfd @ 14.	.65 psia	•	Delivera	ıbility			Mcfd @,1	14.65 psia	3	
The 1	undersigr	ed authority, on	behalf of the	Company, s	states that h	ne is duly a	authorized t	o make the	 e above repo	rt and th	at he ha	s knowled	lge of
the facts s	tated the	rein, and that said	d report is true	e and correc	t. Executed	this the _	19	day of O	ctober	· · ·	: :	, 20	<u>15 · · · </u>
				. 1		. ''; 	,	•			: '		; ·
		Witness (if a	ıny) .			; ' - •.•			For	Company '	1		•
		For Commis	elon			-			*Cha	cked by			

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	i			•	
	enalty of perjury under				
exempt status under R	ule K.A.R. 82-3-304 on I	oehalf of the opera	tor Chesapeake	Operating, L.L.C.	<u>.</u>
	pressure information a				
	ny knowledge and belief			•	' '
	on and/or upon type of c				ein ṇamed.
	one-year exemption fro	m open flow testin	g for the	i i i i i i i i i i i i i i i i i i i	·
gas well on the ground	os tnat said weil:			Koo	<u>.</u> :
(Check one)·		,	۰٬۲۰	WICHITA 26 2015 DEIVED
is a	a coalbed methane prod	ucer	••	OUT	26 2015
iso	cycled on plunger lift du	e to water	.*:	REC	CEIVER
isa	a source of natural gas f	or injection into ar	oil reservoir und	lergoing ER	
<u>=</u>	on vacuum at the preser				
√ is r	not capable of producing	g at a daily rate in	excess of 250 m	cf/D	
1 further garge to	supply to the best of my	abilitu anu ánd al	eupporting dogs	imante doomad by	Commission
	corroborate this claim fo			:: aments deethed by	Commission
Stan do nobobbany to.			, .:¦		
D-1 10/1015					,
Date: 10/1915		· · · · · · · · · · · · · · · · · · ·			1
		4			
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: .	Sig	nature: 	مبحسية	X	·
	•	Title: Sara Eve	erett, Regulatory	Analyst	· · · · · · · · · · · · · · · · · · ·
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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 criteron 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.