KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test ✓ Op	: en Flow			(See Ins	structions on Re	everse Side	e)			r	٠
Deliverabilty			Test Date: 10/20/2013				API No. 15 15-033-21431 – 000					
Company		nerating In	nc	10/20/20		Lease Diane			000 21101		Well Nun	nber
Chesapeake Operating, Inc. County Location Comanche 1470' FSL & 1320' FEL			Section 09		TWP - 35S	TWP ·		RNG (E/W) 16W		Acres Attributed 640		
Field Yellowstone			Reservoir			Gas Gathering Con Western Resou			ection	0.10	·	
Completion Date 07/07/2005			Plug Bac 5,551'	<u> </u>	Depth	h Packer Set a		Set at				
Casing Size Weight 4.5 11.6			Internal E 4.00"	Diamete		Set at 5,582'		Perforations To 5,202' - 5,371' (OA)				
Tubing Si 2.375"	ng Size Weight		Internal Diameter 1.95"		r Set	Set at 5,516'		Perforations To				
Type Completion (Describe)			Type Flui			Pum		'ump Unit or Traveling Plunger? Yes / No				
Single Gas Producing Thru (Annulus / Tubing)				Oil & Water % Carbon Dioxide				Pump unit % Nitrogen Gas Gravity - G				
Annulus			97	,0 0		·.		;			arny a	1
Vertical Depth(H) 5,600'				Pressure Taps Flange			,	(Meter Run) (Prover) Size				
				13 at 8					20 13 at 8:00		(AM) (PM)	
Well on L	ine:	Started	2	0 at		(AM) (PM)	Taken		20	at	(A	M) (PM)
		-		,	OBSE	RVED SURFAC	E DATA			Duration of Shut-	in <u>24</u>	Hours
Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Press psig (Pm)	Meter Differential Prover Pressure in		Flowing Well Head Temperature t t		Wellhead Pressure (P_w) or (P_t) or (P_c)		Tubing ead Pressure or (P _t) or (P _c)	Duration (Hours)	Liquid Produced (Barrels)	
Shut-In			2			216	230.4	psig 71	85.4	24	 	
Flow												
			_		FLOW	STREAM ATTI	RIBUTES		·			
Plate Coeffieci (F _b) (F Mcfd	ient	Circle one: Meter or rover Pressure psia	Press Extension P _m xh	xtension Fac		Flowing Temperature Factor F _{ft}	ure Deviation		Metered Flow R (Mcfd)	w GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m
(P _c) ² =	:	(P _w) ² =	= ;	(OPEN FL	OW) (DI	ELIVERABILIT	Y) CALCUL (P _c - 14.4) +		•	(P _a)	² = 0.20 ² =	7
(P _c) ² - (F	•	(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 divided by: P _c ² - P _w	LOG of formula 1. or 2.	P _c ² - P	Backpr Sk	Backpressure Curve Slope = "n" Assigned Standard Slope		LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
			c w				<u> </u>					
Open Flor	W		Mcfd @ 14.	65 psia		Delivera	bility		<u> </u>	Mcfd @ 14.65 ps	ia	
	_	-	on behalf of the aid report is true			-			he above repo December	ort and that he ha		edge of 0 13 .
		, , , , , , ,					•				KCC	WICH
		Witness	(if any)				<u> </u>		For	Company	DEC	1 2 201
		For Comr	nission						Che	cked by		ECEIVE

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	ler penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator Chesapeake Operating, Inc.
and that the foreg	going pressure information and statements contained on this application form are true and t 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.
	est a one-year exemption from open flow testing for the Diane 1-9
	ounds that said well:
(Check	cone)
	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
_	e to supply to the best of my ability any and all supporting documents deemed by Commission y to corroborate this claim for exemption from testing.
Date: 12/10/2013	3
·	Signature: 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.

DEC 1 2 2013

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