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KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Deliv Company Chesape	en Flow verabilty											
Company Chesape	verabilty			T4 D-4-				A DI	N. 45			
Chesape				Test Date 10/20/20					No. 15 007-22928 -	0000		
	Company Chesapeake Operating, Inc.				,		Lease Gundelfinger			Well Number 1-14		
County Location Barber 1165' FNL & 1,740' FWL				Section 14		TWP 35S	, - ; ,		W)	Acres Attributed		
Field SOUTH AETNA				Reservoir MISSISS		-	Gas Gathering Conn ATLAS		ection			
Completion Date 1/17/2006				Plug Back 5160	Total De	pth	Packer Set at NONE					
Casing Size Weight 4.5 11.6			Internal Diameter 4.000			Set at 5200		rations ·	то 5106			
Tubing Size Weight 2.375 4.7			Internal Diameter 1.995		Set a	Set at Perforations		То				
Type Completion (Describe) Single Gas				Type Fluid Production water/oil				Pump Unit or Traveling Plunger? Yes / YES-Pump			/ No	
Producing Thru (Annulus / Tubing)				% Carbon Dioxide				% Nitrogen			Gas Gravity - G _g	
							.684					
Vertical Depth(H) 55060				Pressure Taps FLANGE						•	(Meter Run) (Prover) Size 2.067	
Pressure B	Buildup:	Shut in	20 2	13 at 9:	00	_ (AM) (PM)	Taken_1()/21	20	13 at 9:00	(AM) (PM)	
Well on Lin	ne:	Started	20) at		_ (AM) (PM)	Taken		20	at	(AM) (PM)	
					OBSERV	ED SURFAC	E DATA		···	Duration of Shut-	in 24 Hours	
Static / Dynamic Property	namic Size Prover Pres		Pressure Differential in	ferential Flowing \		Well Head Temperature t Casing Wellhead Pre (P _w) or (P ₁) o				Duration (Hours)	Liquid Produced (Barrels)	
Shut-In	·	psig (Pm)	Inches H ₂ 0	•		psig 125	psia 139.4	psig 270	psia 284.4	24		
Flow											+	
	· · · · · · ·				FLOW ST	REAM ATTR	IBUTES					
Plate Coefficcier (F _b) (F _p) Mcfd		Circle one: Meter or over Pressure psia	Press Extension P _m xh	Gravity Factor F _g		Flowing Temperature Factor F ₁₁		Deviation Metered F Factor R F pv (Mcfd)		(Cubic Fe Barrel)	Gravity	
		<u> </u>										
P _c) ² =	:	(P _w) ² =_	; ,	(OPEN FLO	OW) (DELI	VERABILITY _% (F	') CALCUL P₀ - 14.4) +			(P _a) ⁽	² = 0.207 ² =	
(P _c) ² - (P _a or (P _c) ² - (P _d		P _c) ² - (P _w) ²	Thoose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ ivided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide by:	P _c ² - P _w ²	Backpre Slo 	essure Curve pe = "n" - or ssigned dard Slope		LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
							,					
Open Flow	<u> </u>		Mcfd @ 14.	55 psia		Deliverab	oility	.		Mcfd @ 14.65 psi	ia	
		1 authority on			tates that			n make th		rt and that he ha		
	_	•	d report is true			-			ecember	it and that he ha	, 20 <u>13</u>	
	,	Witness (if	any)			-			For	Company	V00 18"0:	
		For Commis								- Stranger	KCC WICH	

		ry under the laws of the s		1	request
		3-304 on behalf of the oper			
		rmation and statements			
	,	and belief based upon ava		,	
• •	• •	type of completion or upo	-	•	named.
		nption from open flow test	ing for the Ouride	anniger 1-14	
as well on the g	rounds that said wel	II: .			
(Checi	k one)		•		
	is a coalbed metha	ane producer			
	is cycled on plung	ger lift due to water	•	•	
	is a source of natu	ural gas for injection into	an oil reservoir und	dergoing ER	
	is on vacuum at th	ne present time; KCC app	roval Docket No	······································	
. 🗸	is not capable of p	producing at a daily rate i	n excess of 250 m	cf/D	
•		est of my ability any and		uments deemed by Co	ommissio
taff as necessai	ry to corroborate this	s claim for exemption fro	m testing.		
	,				•
ate: 12/11/201	3 .				
•					
		Signature:	A Loca	hole include	$\mathcal{L}_{\mathcal{C}}$

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.

MCC WICHITA

DEC 12 2013

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