KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				.(See Instruct	tions on Re	verse Side))		•			
✓ Open Flow Deliverability				Test Date: 10/21/2013				API No. 15 15-007-22554 - 0000						
Company Chesapeake Operating, Inc.				Lease Z-Bar Ranch			lanch			Well Number				
County Location Barber 1320' FNL & 2390' FEL			Section 16		TWP 35S		RNG (E/W) 15W		Acres Attributed		ttributed			
Field SALT FORK				Reservoir MISSIS				Gas Gathering Conr		ection				
Completion Date 4/4/1998				Plug Bac 5125	k Total Dept	th		Packer Set at NONE						
Casing S 4.5	Casing Size Weight			Internal E	Diameter	Set at 5196		Perforations 5036		To 5074		,		
Tubing Size Weight 2.375 4.7			Internal D 1.995	Diameter	Set at 500,5		Perforations		То					
Type Completion (Describe)				Type Fluid Production water/oil				Pump Uni	t or Traveling	g Plunger? Yes	lunger? Yes / No			
Single Gas Producing Thru (Annulus / Tubing) Annulus					Carbon Dioxi	de		% Nitrogen		Gas Gravity - G ₂				
Vertical Depth(H) 5055				Pressure Taps FLANGE					(Meter	(Meter Run) (Prover) Size 3.068				
Pressure	Buildup	Si	nut in	1 2	13 at 1	0:00	(AM) (PM)	Taken_10	0/22	20	13 _{at} 10:00	(AM) (PM)	
Well on L	ine:	St	tarted	2	0 at	·	(AM) (PM)	Taken		20	at		AM) (PM)	
			. 1			OBSERVE	D SURFAC	E DATA			Duration of Shut	-in_24	Hours	
Static / Dynamic Property	mic Size		Circle one: Meter Prover Pressure psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Well Head Temperature t t		(P_w) or (P_t) or (P_c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)		
Shut-In	ut-In		, , , , , , , , , , , , , , , , , , ,	mones H ₂ s			psig 140	psia 154.4	390	404.4	24	-		
Flow														
			1.			FLOW STR	EAM ATTR	IBUTES						
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension P _m xh	Extension Fact		tor Temperature		iation ctor - pv	Metered Flor R (Mcfd)	w GOR (Cubic Fe Barrel)	eet/	Flowing Fluid Gravity G _m	
(P _c) ² =		:	(P _w) ² =	:	P _d =	OW) (DELIV) CALCUL _c - 14.4) +		:.	(P _a)	$0^2 = 0.20$ $0^2 = 0.20$	07	
(P _c) ² - (I		(P _c) ² - (P _w) ²		oose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ ided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide by: LOG of properties		Backpressure Curve Slope = "n" or Assigned Standard Slope		n x LOG		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)		
,					*	`	-					<u> </u>	•	
Open Flo	Open Flow			Mcfd @ 14.65 psia			Deliverab	oility		-	Mcfd @ 14 65 ns	1cfd @ 14.65 psia		
The i	undersig		authority, on I	behalf of the	Company, s		e is duly au	uthorized to		•	ort and that he ha	as know	ledge of 20 13 .	
	,									**				
			Witness (if ar	ny)			-			For			VICHIT	
-			For Commiss	ion			_			Che	cked by	EC 1	2 2013	
											•	REC	EIVED	

	lare under penalty of perjury under the laws of the state of Kansas that I am authorized to request atus under Rule K.A.R. 82-3-304 on behalf of the operator Chesapeake Operating, Inc
and that t	the foregoing pressure information and statements contained on this application form are true and the best of my knowledge and belief based upon available production summaries and lease records
of equipm	nent installation and/or upon type of completion or upon use being made of the gas well herein named. by request a one-year exemption from open flow testing for the Z-Bar Ranch 1-16
	on the grounds that said well:
	(Check one)
	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
I furth	ner agree to supply to the best of my ability any and all supporting documents deemed by Commission
staff as ne	ecessary to corroborate this claim for exemption from testing.
10/	/44/2042
Date: 12/	/11/2013
	Signature: Swal Dodyjull
	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.

KCC WICHITA

DEC 12 2013

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