KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:			((See Instruc	tions on Re	verse Side	3)					
	en Flow liverabilty	,		Test Date				API	No. 15				
Company Chesapeake Operating, Inc.				8/30/20	8/30/2010 Lease Booth			033-20964 - OOO Well Number 1-13					
County Location			Section	· · · · · · · · · · · · · · · · · · ·	TWP	WP RNG (E		W)	Acres Attributed		Attributed		
Comache C S/2 SE			13 Reservoi	r	31S		18W Gas Gati	hering Conn	ection				
Wilmore					Marmaton			OneOk Energy Service					
Completion Date 9/29/98			Plug Bac 4913	Plug Back Total Depth 4913			Packer Set at None						
Casing Size Weight 5.5 15.5			Internal (4.950	Diameter				rations	To	то 4834			
ubing Size Welght		ht	Internal Diameter		Set at		4830 Perforations		To				
2.375 4.7				1.995 4883 Type Fluid Production			Pump Unit or Traveling Plunger? Yes / No						
Type Completion (Describe) Gas) Single				Water	Water			Pump Unit					
Producing Annulus		Annulus / Tubin	ng)	% C	Carbon Diox	ide		% Nitrog	en	Gas G .626	iravity - (3,	
/ertical D		10-8-71 - 1 - 1 to 10-1 d leave considerate considerat				ssure Taps				(Meter		rover) Size	
5675		0/2		40 1	Flan		0.4	10.4		2.06			
Pressure Buildup: Shut in 8/30 20				10 at 11 (AM) (PM) Taken 8			20 10 at 11				(AM) (PM)		
Vell on L	ine:	Started	 :	20 at		(AM) (PM)	Taken		20	at	((AM) (PM)	
					OBSERVE	ED SURFAC	E DATA			Duration of Shu	t-in 24	Hour	
Static / Orifice Dynamic Size Property (inches)		Circle one: Meter	Pressure Differential	Flowing	Well Head	Walihaari Praceura		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		Duration	Liqui	Liquid Produced (Barrels)	
		Prover Press psig (Pm)		Temperature t	Temperature t					(Hours)	(1		
Shut-In				 		1000	1014.4	55	69.4	24	_		
Flow													
					FLOW ST	REAM ATTR	IBUTES						
Plate Coefficient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia	Press Extension Pmxh	Grav Fac F	tor	Tomporaturo		Deviation M Factor F _{pv}		w GOR (Cubic F Barrel	eet/	Flowing Fluid Gravity G _m	
				(OPEN FL	OW) (DELIV	/ERABILITY) CALCUL	ATIONS		(P <u>.</u>	$)^2 = 0.2$	207	
P _c)2 =		: (P _w) ² :	Choose formula 1 or	P _a =			_c - 14.4) +		: :	(P _d) ² =		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c)²- (P _w)²	1. P _c ² -P _e ² 2. P _c ² -P _d ²	LOG of formula 1, or 2, and divide	Slope		ssure Curve pe = "n" - or	n x L	.og	Antilog	Dei Equals	pen Flow liverability s R x Antilog (Mcfd)	
			divided by: P _c ² - P	N Sy.		Starte	ага споре					,	
Open Flow			Mcfd @ 14.65 ps		osia		Deliverability			Model @ 14 CC			
·		and authority of		<u>`</u>	states that i		•	a maka th		McId @ 14.65 ps			
			aid report is tru				_4		e above repo ovember	ort and that he h		20 <u>10</u>	
		Witness	(if any)		······································	_			For C	Company	F	RECEIV	
		For Com	mission			-			Cher	cked by	—- п	EC 03	
									Ç.	,		_0 00	

exempt status under and that the forego correct to the best of of equipment installa	penalty of perjury under the laws of the state of Kansas that I am authorized to request r Rule K.A.R. 82-3-304 on behalf of the operator Chesapeake Operating, Inc ing 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 ation and/or upon type of completion or upon use being made of the gas well herein named. It a one-year exemption from open flow testing for the Booth 1-13
(Check o	
Date: November 1,	

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
DEC 0 3 2010
KCC WICHITA