## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(	See Instruct	ions on Re	verse Side	)					
✓ Open Flow					Took Date:									
Deliverabilty					Test Date: 7/9/2014				API No. 15 15-007-22686 <b> 0 000</b>					
Company Chesapeake Operating, L.L.C.					Lease Brownback			Well Number 1-7				mber		
County Location Barber 330 FSL & 530 FWL				Section 7		TWP 35S		RNG (E/W) 15W		Acres Attributed				
Field South Aetna				Reservoir Mississi				Gas Gathering Co		ection				
Completion Date 3/26/2002				Plug Bac 5360	k Total Dept	h	Packer Set at None		Set at					
Casing Size Weight 4.5 10.5				Internal E 4.090	Diameter	Set at 5400		Perforations 5248		то 5300				
			Weight			Internal Diameter		Set at		rations	To			
2.375 4.7			1.995		5193									
Type Completion (Describe) Single Gas				Type Flui water/o	d Production	Pump Unit or Tr. Pump Unit			veling Plunger? Yes / No					
Producing Thru (Annulus / Tubing)				% Carbon Dioxide				% Nitrog	jen	Gas Gravity - G <sub>g</sub>				
Annulus											.614	2 1 / 12		
Vertical Depth(H) 5274				Pressure Taps Flange						2.067		over) Size		
Pressure Buildup:		o: :	Shut in 7/8 20		14 at 8	14 at 8:00		(AM) (PM) Taken 7/9		20	14 at 8:00	(	AM) (PM)	
Well on L	ine:		Started	2	0 at		(AM) (PM)	Taken		20	at	(	AM) (PM)	
						OBSERVE	D SURFACI	E DATA			Duration of Shut-	<sub>in_</sub> 24	Hours	
Static / Orifice Dynamic Size Property (inches)		9	Circle one: Meter Prover Pressu	Pressure Differential in	Temperature Temperature		Casing Welihead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$		Duration (Hours)		i Produced Barrels)	
Property	(inchi		psig (Pm)	Inches H <sub>2</sub> 0	1	t	psig	psia	psig	psia			_	
Shut-In			_				200	214.4	270	284.4	24			
Flow														
						FLOW STR	EAM ATTR	IBUTES						
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension  P <sub>m</sub> xh	Fact	Gravity Factor To F <sub>g</sub>		Flowing Deviation Factor F <sub>pv</sub>		Metered Flov R (Mcfd)	v GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G <sub>m</sub>	
		·								·				
	-			· -	(OPEN FL	OW) (DELIVI	ERABILITY)	) CALCUL	ATIONS		/D \2	2 = 0.20	7	
(P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> ) <sup>2</sup> =_	;	P <sub>d</sub> =	%	6 (F	- 14.4) +	14.4 =	;	(P <sub>d</sub> ) <sup>2</sup>		<u></u>	
$(P_o)^2 - (P_a)^2$ or $(P_o)^2 - (P_d)^2$		(P <sub>o</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		1. P <sub>c</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup> (ivided by: P <sub>c</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup>	2. P <sup>2</sup> -P <sup>2</sup> 1. P <sup>2</sup> -P <sup>2</sup> 2. P <sup>2</sup> -P <sup>2</sup> 2. P <sup>2</sup> -P <sup>2</sup> 3. LOG of formula 1. or 2.		Slop Ass	Backpressure Curve Slope = "n" Assigned Standard Slope		LOG	Antilog		en Flow verability R x Antilog Mcfd)	
					-									
Open Flow Mcfd @ 14.6			65 psia		Deliverability		Mcfd @ 14.65 psia							
		_	•				-			•	rt and that he ha	s knowl	edge of	
the facts st	tated th	erei	n, and that sa	id report is true	and correct				day of	lay		, 2	15.	
<del> </del>			Witness (if	onu)	1	R KANSAS-CORP	eceived Oration coa	MISSION			'omnony			
			yviuless (II	sary/		IAI II	2 9 20	15		ForC	Company			
			For Commi	ssion			4 J ZU	IJ		Chec	ked by			

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Chesapeake Operating, L.L.C. and that the foregoing pressure information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon available production summaries and lease records of equipment installation and/or upon type of completion or upon use being made of the gas well herein named.  I hereby request a one-year exemption from open flow testing for the Brownback 1-7 gas well 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 further agree to supply to the best of my ability any and all supporting documents deemed by Commission
staff as necessary to corroborate this claim for exemption from testing.  Date: 5/11/2015
Received KANSAS CORPORATION COMMISSION  JUN 2 9 2015  CONSERVATION DIVISION WICHITA, KS

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.