KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:				(See Instruc	tions on Rev	erse Side)					
✓ Open Flow					T	Test Pater				ADI No. 45				
Deliverabilty					Test Date: 8/24/2014			API No. 15 15-189-21254 ~ 0000						
Company Chesapeake Operating, L.L.C.						Lease Brownell C			3-			Well Number		
County Stevens			Location 660 FSL & 660 FEL			Section 1		TWP 32S		W)	Acres Attributed			
Field Larrabe	ee					Reservoir Mississippian				hering Conn Field Service				
Completion 12/8/88		te			Plug Back Total Depti 6281		th	Packer		Set at				
Casing Size 5.5			Weigt 14.0		Internal Diameter 5.012		Set at 6344		Perforations 5530		то 6053			
Tubing Size 2.875			Weight 6.5		Internal Diameter 2.441		Set at 5374 :::		Perforations		То			
Type Completion (Describe)			<u>-</u>	Type Flui				nit or Traveling	Plunger? Yes	/ No				
Single Gas			_							Pump Unit				
Producing Thru (A			nulus / Tubin	g)	% C	arbon Dioxi	е		% Nitrogen		Gas Gravity - G _g			
Annulus Vertical C		JN				Drop	sure Taps				/Motor 1	Run) (Prover) Size		
6344	vehade	''				ries:	sure raps				(Nieiei)	nulij (Plovel) bize		
	Buildu	p:	Shut in _8/2	3 2	14 at 8	:00	(AM) (PM)	Taken_8/	24	20	14 at 8:00	(AM) (PM)		
Well on L	ine:		Started	2	0 at		(AM) (PM)	Taken		20	at	(AM) (PM)		
						OBSERVE	D SURFACE	DATA			Duration of Shut-	in_24 Hou		
Static / Orifice Dynamic Size Property (Inches)		: e	Circle one: Meter Prover Press psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Well Head Temperature t		(P _w) or (P _t) or (P _c)		Tubing Welihead Pressure (P_w) or (P_l) or (P_c)		Duration (Hours)	Liquid Produced (Barrels)		
Shut-in			parg (1 m)	menes rigo			psig 30	psia 44.4	psig 0	14.4	24			
Flow			_											
			·			FLOW STR	EAM ATTRI	BUTES				<u> </u>		
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension ✓ P _m x h	racio		Temperature Fac		iation Metered Flow ctor R pv (Mcfd)		v GOR (Cubic Fe Barrel)	Flowing Fluid Gravity G_m		
							<u> </u>							
			·		(OPEN FLO	OW) (DELIV	ERABILITY)	CALCUL	ATIONS					
(P _c)² =:			(P _w) ² =	: :	•		•	- 14.4) +		:	(P _a);	2 = 0.207 2 =		
$(P_a)^2 \cdot (P_a)^2$ or $(P_a)^2 \cdot (P_d)^2$		(P _c) ² - (P _w) ²		Choose formula 1 or 2 1. P _a ² - P _a ² 2. P _a ² - P _d ²			Backpressure Curve Stope = "n"		n x LOG		Antilog	Open Flow Deliverability Equals R x Antilog		
(P ₀)2- (I	P _a)*			divided by: Pc2-Pw	and divide by:	P _c ² - P _w ²		igned rd Slope				(Mcfd)		
									-					
Open Fler				Motel @ 14	es poin		Delivershil				Maid @ 14 CE poi	l		
Open Flor				Mcfd @ 14.			Deliverabil				Mcfd @ 14.65 psi			
		_	•	n behalf of the ald report is true			•			•	rt and that he ha	s knowledge of		
			Witness (fany)	- 1		eceived ORATION COM	MISSION		For C	Отралу			
,			·	deales										
			For Comm	nission		JUN	2 9 201	5		Chec	ked by			

exempt status und and that the foreg correct to the best of equipment insta I hereby reque	er penalty of perjury under the laws of the state of Kansas that I am authorized to request ler Rule K.A.R. 82-3-304 on behalf of the operator Chesapeake Operating, L.L.C. poing 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 allation and/or upon type of completion or upon use being made of the gas well herein named. Lest a one-year exemption from open flow testing for the Brownell C 3-1
gas well on the gro	ounds that said well:
(Check	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
staff as necessary	y to corroborate this claim for exemption from testing.
Date: 5/11/2014	
к	Received Signature: WWW MANSAS 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.