KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(See Instruc	tions on Re	verse Side)				
✓ Open Flow					T1 D-1	_			4.01	No. 45			
Deliverabilty					Test Date: 7/3/2014			API No. 15 15-095-00871 0000					
Company		Оре	rating, L.L.C).			Lease Bertho	lf A		-	1-4	Well Nu	mber
County Kingman			Location 660 FNL & 900 FEL		Section 4		TWP 30S		RNG (E/W) 8W			Acres A	attributed
Field Spivey	Grat	os			Reservoir Mississ					nering Conn Field Sevic			
Completion Date 4/7/58				Plug Bac 4849	Plug Back Total Depth 4849			Packer S None	et at				
Casing S 5.5			Weight 14		Internal D 5.012	Internal Diameter 5.012		Set at 4265		Perforations 4151		то 4206	
Tubing Size 2.375			Weight 4.7		Internal Diameter 1.995		Set at 4105		Perforations		То		
Type Con Single (n (D	escribe)		Type Flui Water	d Productio	n		Pump Un Pump	it or Traveling Unit	Plunger? Yes	/ No	
Producing	Thru	(Anı	nulus / Tubin	g)	% C	arbon Dioxi	ide		% Nitrog	en	Gas Gr	avity - (3 ₀
Annulus													
Vertical D 4179	epth(F	1)				Pres	sure Taps				(Meter I	Run) (Pi	rover) Size
Pressure	Buildu	ıp:	Shut in _7/2	2	14 at 8	:00	(AM) (PM)	Taken_7/	3	20	14 _{at} 8:00	(AM) (PM)
Well on L	ine:		Started	2	0 at		(AM) (PM)	Taken		20	at	(AM) (PM)
						OBSERVE	D SURFAC	E DATA			Duration of Shut-	in_24	Hours
Static / Dynamic	Orifi Siz	9	Circle one: Mêter Prover Pressi	Pressure Differential in	Flowing Temperature	Well Head Temperature	Cas Wellhead (P _w) or (F	Pressure	Wellhea	ubing ad Pressure (P ₁) or (P _n)	Duration (Hours)	Liqui	d Produced Barrels)
Property Shut-In	(inch	188)	psig (Pm)	Inches H ₂ 0	- t	t	psig 20	psla 34.4	psig 5	psia 19.4	24	ļ ,	
Flow							20	0111	-	10.4	<u> </u>		
FIOW					L	FI 0W 075		IBUTEO		<u> </u>			
			Circle one:			FLOW 51F	REAM ATTR	IBUIES					
(F _b) (F	Coeffictient (F _b) (F _p) Mcfd		Meler ot over Pressure psia	Press Extension √ P _m xh	Extension Fact		Flowing Temperature Factor F ₁₁		ation ctor : pv	Metered Flor R (Mcfd)	w GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m
													ı
(D)3 -			(P _w) ² =		•	OW) (DELIV) CALCUL P _c - 14.4) +				²= 0.2 ²=	07
(P _c) ² =	· 1	=:-	· · · · ·	Choose formula 1 or 2				ssure Curve			(a/	Ì	
(P _c) ² - (F	P _a)2	(F)2 - (P _w)2	1. P ₀ ² -P ₀ ²	LOG of formula		olS	pe = "n"	n x l	.og	Antilog		en Flow verability
or (P ₀) ² - (F	P _d) ²		. '	2. P _c ² - P _d ² divided by: P _c ² - P _w	1, or 2, and divide by:	P ₀ ² -P _w ²	As	orsigned ard Slope					R x Antilog Mcfd)
									_				
Open Flor	W			Mcfd @ 14.	65 psia		Deliverab	ility	-		Mcfd @ 14.65 psi	a	
The u	ınders	ignec	d authority, o	n behalf of the	Company, s	tates that h	e is duly au	uthorized to	make th	e above repo	ort and that he ha	s know	ledge of
the facts st	tated t	herei	n, and that s	aid report is true	and correc	t. Executed	this the		day of M	ay		, , 2	<u>15</u> .
						Rec	eived _				<u> </u>		
			Witness (fany)	KAN	SAS CORPOR	ATION COMMIS	SSION		For	Company	_	
			For Comm	ission		- JUN- 2	9 2015			Che	cked 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 Bertholf A 1-4
gas well on the grounds that said well:
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.
D
Date: <u>5/8/2015</u>
Signature: White White
Received KANSAS CORPORATION COMMISSION Title: Katie Wright, Regulatory Analyst
JNN 5 8 5042
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.