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

Type Tes	st:					(See Instru	ictions on R	everse Sid	de)					
	pen Flov eliverabi				Test Dat 6/22/20				API	No. 15 - 11	9-20,773	3-(	000	)
Compan		ources					Lease Adams	s Ranch		······································		F-32	Vell Number	
County Meade			Location 500' FSL	n , 4680' FEL	Section 9		TWP 35S		RNG (E/ 29W	W)		A	Acres Attribu	ited
Field Cimmar		· <del>-</del>			Reservoi Cheste	ir r/ St. Gen			Gas Gat	nering Conr	ection	· · · · · · · · · · · · · · · · · · ·	REC	EIVEL
Completi 3/30/19	88 IP	•			Plug Bac 6194'	k Total De	pth		Packer S N/A	et at			JUN 2	
Casing S 5 1/2"			Weight 15.5#		Internal I	Diameter	Set 626		Perfor 5858	ations 3' -		то 6162' <b>/</b>	KCC W	
Tubing S 2 3/8"			Weight 1.7#		Internal I	Diameter	Set 600		Perfor	ations		То		· • • • • • • • • • • • • • • • • • • •
Gas We	ell '	(Describe				id Production, water	on		Pump Un Yes Pu	it or Traveling Imping un	Plunger? it	Yes /	No .	<del></del>
Producing Both	g Thru	(Annulus /	Tubing)		% (	Carbon Dio	xide		% Nitroge	en		Gas Gra	vity - G <sub>g</sub>	
Vertical D	Pepth(H)					Pre	ssure Taps	**********			(	(Meter R	un) (Prover)	Size
Pressure	•			21 2	0_][ at	8:10	- <b>(</b> (PM)	Taken	6/21	20			, , ,	•
Well on L	ine:	Started		<i>LZ</i> 20	0_LL at	0.30	_ <b>(</b> PM)	Taken	6/22	20	at	<u> 8: 3c</u>	<u> </u>	PM)
				1	,	OBSERV	ED SURFAC	E DATA	·		Duration of	of Shut-ir	24	Hours
Static / Dynamic Property	Size Meter Diffe		Pressure Differential in Inches H <sub>2</sub> 0	Temperature Temperature		Wellhead (P <sub>w</sub> ) or (I	Casing Wellhead Pressure $(P_w)$ or $(P_1)$ or $(P_c)$ psig psia		Tubing           Wellhead Pressure           (P <sub>w</sub> ) or (P <sub>c</sub> )           psig         psia		Duration Liquid (Hours) (E			
Shut-In							150		50	ран				
Flow							50		32					
		Circle one	. 1		<u> </u>	FLOW ST	REAM ATTE	RIBUTES				<del> </del>		
Plate Coeffieci (F <sub>b</sub> ) (F Mcfd	lent p)	Meter or Prover Pres psia		Press Extension P <sub>m</sub> xh	Grav Fact F <sub>g</sub>	- 1	Flowing Temperature Factor F <sub>11</sub>	F	viation actor F <sub>pv</sub>	Metered Flov R (Mcfd)		GOR Cubic Feet Barrel)	1 5	
***************************************		·			(OPEN FLO	OW) (DELI	VERABILITY	/) CALCUI	LATIONS			(D.)2	2.007	
(P <sub>o</sub> ) <sup>2</sup> =		: (1	> <sub>w</sub> )2 =	:	P <sub>d</sub> =	****	% (	P <sub>c</sub> - 14.4) +	+ 14.4 =	<b>:</b>		(P <sub>a</sub> ) <sup>2</sup> :	= 0.207 =	
$(P_o)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		nose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ ded by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide p 2. p		Backpressure Cu Slope = "n" or Assigned Standard Slope		n v 100		Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)	
~*^ · · · · · · · · · · · · · · · · · · ·					-	· · · · · · · · · · · · · · · · · · ·								
Open Flow	~			Mcfd @ 14.6	55 psia		Deliverat	oility			Mcfd @ 14	1.65 osia		
		erein, and t $\mathcal{M}$	hat said	ehalf of the report is true	_			a and	day of	***************************************	rt and that		knowledge , 20	,
			tness (if an		-		-	······································		For C	company			

exempt status und and that the forego correct to the best of equipment insta	er Rule K.A.R. 82-3-304 on behalf of the bing pressure information and stateme of my knowledge and belief based upor	the state of Kansas that I am authorize operator Quantum Resources Managents contained on this application form available production summaries and I rupon use being made of the gas well have the forther forther. Adams Ranch F-32	are true and ease records
	unds that said well:	viesting for the	
(Check	•		RECEIV
	is a coalbed methane producer is cycled on plunger lift due to water is a source of natural gas for injection i is on vacuum at the present time; KCC is not capable of producing at a daily re	approval Docket No.	JUN 2 8 KCC WIC
	to supply to the best of my ability any a	and all supporting documents deemed	by Commission
nam as necessary Date: 6/22/2011	to corroborate this claim for exemption	n from testing.	
/die			
	Signature:	will Later Fore	

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.