KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:				('See Instruc	tions on Re	verse Side)					
= :	en Flow			Test Date	a:			API	No. 15				
√ Deli	iverabilty			07/11/2					20290 -0 0	000			
Company Quantum Resources Management, LLC					Lease Adams Rar			:h F			Well Number F-12		
County Location Meade 660' FNL & 1980' FWL			Section 15			TWP .35S		V)		Acres Attributed			
Field Cimmaron Bend				Reservoir Lansing	r / Chester			Gas Gath	ection				
Completion Date 1/11/78				Plug Bac 6759'	k Total Dep	th	Packer Set at						
Casing Size Weight 5 1/2" 15.5#			Internal 1	Internal Diameter		Set at 6600'		ations '-4589'	то 6056'-6173'				
Tubing Size Weight 2 3/8"				Internal I	Diameter	Set at		Perforations		То			
Type Completion (Describe) Gas Well					id Productio Dil, Water			Pump Unit or Traveling P Pumping Unit			Plunger? (Yes) / No		
Producing Thru (Annulus / Tubing) Tubing					Carbon Diox		% Nitrogen		Gas Gravity - G				
Vertical De	epth(H)			····	Pres	sure Taps				(Meter	Run) (P	rover) Size	
Pressure Buildup: Shut in 07/11 20				20_13_at_9	:30	(AM)(PM)	(AM) (PM) Taken 07		20	13 _{at} 9:30	((AM)(PM)	
						<u> </u>			20 at				
					OBSERVE	D SURFAC	E DATA			Duration of Shut	-in _24	Hours	
Static / Orifice		Circle one Meter Prover Pres	Differentia	Flowing Temperature	Weil Head Temperature	Casing Wellhead Pressure (P _w) or (P _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)		Liquid Produced (Barrels)	
Property	(inches)	psig (Pm		t t	t	psig	psia	psig	psia	(1,000.5)	(ounds)		
Shut-In Flow	_				_	5		40	+		-		
				<u></u>	FLOW ST	LEAM ATTR	I	<u> </u>		<u> </u>			
Plate Coefficationt (F _b) (F _p) Mofd		Circle one: Meter ot Prover Pressure psia	Press Extension ✓ P _m x h	Fac	vity	Flowing Temperature Factor F ₁₁	Dev Fa	riation actor	Metered Flor R (Mcfd)	w GOR (Cubic F	eet/	Flowing Fluid Gravity G _m	
P _c)² =	:	(P)²	= :	(OPEN FL	, ,	/ERABILITY % (F	') CALCUL P _a - 14.4) +		:) ² = 0.2) ² =	207	
(P _c) ² - (P	-	(P _c) ² - (P _w) ²	Choose formula 1 o 1. P _c ² - P _a ² 2. P _c ² - P _d ²	Choose formula 1 or 2: 1. P _q ² - P _a ² LOG of formula		Backpre Slo	Backpressure Curve Slope = "n" 		og [Antilog	O ₍ Del	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flov	v		Mofd @ 1	4.65 psia		Deliverat				Mcfd @ 14.65 ps	_ sia		
The u	ındersign	ed authority,			states that t		uthorized t		•	ort and that he h		vledge of	
ne facts st	ated the	ein, and that	said report is tr	ue and correc	t. Executed	this the 2	7th	day of Ma	<u></u>		<u> </u>	20 14 .	
		Witness	(if any)			-	Quantu	m Resou		gement, LLC Company	KCC	WICH	
		For Con	nmission			-			Che	cked by		2 9 201	
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												· v 🗀	

exempt status under Ru and that the foregoing correct to the best of my of equipment installation	nalty of perjury under the laws of the state of Kansas that I am authorized to request ale K.A.R. 82-3-304 on behalf of the operator Quantum Resources Management, LLC pressure information and statements contained on this application form are true and we knowledge and belief based upon available production summaries and lease records in and/or upon type of completion or upon use being made of the gas well herein named. One-year exemption from open flow testing for the Adams Ranch F-12 is that said well:
is cy is a is o	coalbed methane producer cled on plunger lift due to water source of natural gas for injection into an oil reservoir undergoing ER n vacuum at the present time; KCC approval Docket No ot capable of producing at a daily rate in excess of 250 mcf/D
	upply to the best of my ability any and all supporting documents deemed by Commission orroborate this claim for exemption from testing.
Date: 5/27/14	
	Signature: <u>Malanda Pa</u> Title: Regulatory Manager

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.

KCC WICHITA

MAY 29 2014

RECEIVED