KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:					(See Instruc	tions on Re	verse Side)					
= :	en Flo					Test Date):			ДРІ І	No. 15				
√ De	liverab	ilty			<u>-</u>	04/23/20					20347 - 00	00			
Company Quantum Resources Management, LLC							Lease Adams	Lease Adams Ranch				Well Nu	ımber		
County Meade			Location 660' FSL & 660' FEL			Section 9		TWP 35S		. RNG (E/W) 29W			Acres /	Attributed	
Field Cimmaron Bend				Reservoir Morrow	/ Chester	/ Toronto	Toronto		Gas Gathering Connection DCP						
Completion Date 7/3/79				Plug Back 6050'	k Total Dept	th	Packer Set at								
Casing Size Weight 5 1/2" 15.5#				Internal E	Diameter	Set at 6250'		Perforations 4366'		то 6030	то 6030				
Tubing Size Weight 2 1/16"				Internal E	Diameter	Set at 5885'		Perforations		То					
Type Completion (Describe) Gas Well					Type Fluid Production Gas, Oil, Water				Pump Unit or Traveling Plunger? Yes / No Plunger						
Producing Thru (Annulus / Tubing) Tubing				% Carbon Dioxide				% Nitroge	Gas (Gas Gravity - G _o					
Vertical D	epth(F	1)					Pres	sure Taps				(Mete	r Run) (F	Prover) Size	
Pressure	Buildu	ıp: :	Shut in 04/	/23	2	0_13_at_8:	:30	(AM)(PM)	Taken_04	1/24	20	13 _{at} 8:30	((AM)(PM)	
Well on L	ine:				2	0 at					20	at		(AM) (PM)	
							OBSERVE	D SURFACI	E DATA			Duration of Shu	ıt-in 24	Hours	
Static / Orifi Dynamic Siz		te Prover Press		Differential			Well Head Temperature	Casing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)		Liquid Produced (Barrels)	
Property Shut-In			psig (Pm)		Inches H ₂ 0	t	t -	psig	psia	psig	psia				
Flow				+				160		70		,	_		
			<u> </u>			_	FI OW STE	L	IRUTES						
Plate Coeffiecient (F _b) (F _p) Mcfd		Circlo one: Meter or Prover Pressure psia		Press Extension ✓ P _m x h		Gravity Factor F _g		Flowing Dev Temperature Fa		viation Metered Flov actor R F _{pv} (Mcfd)		w GOI (Cubic I Barre	Feet/	Flowing Fluid Gravity G _m	
							_								
P _c)² =			(P _w) ² =	=	:	(OPEN FLO		ERABILITY) CALCUL 2 - 14.4) +		:		$\binom{1}{a}^2 = 0.3$	207	
(P _c) ² - (I or (P _c) ² - (I		(F	(P _w) ² - (P _w) ²	Choose 1. 2.	e formula 1 or 2: $P_c^2 - P_a^2$ $P_c^2 - P_d^2$ $1 by: P_c^2 - P_a^2$	LOG of formula 1. or 2. and divide	P _c ² - P _w ²	Backpre Sloj As	ssure Curve pe = "n" - or signed ard Slope	n x l	og [Antilog	Op Deli Equals	pen Flow iverability is R x Antilog (Mcfd)	
					_										
Open Flo] w					65 psia		Deliverab	pility			Mcfd @ 14.65 p	 osia		
The	unders	ignec	i authority o				tates that h			o make the	e above rend	ort and that he I		viedge of	
		-	n, and that s					-		day of Ma	-			20 14	
			Witness ((if anv)				_	Quantu	m Resou		gement, LLC	Kri	~ \ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	
								_						C WICH	
			For Com.	IIISSION							Che	cked by	MAY	Y 29 20	
									•				R	ECEIVE	

	eclare 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 Quantum Resources Management, LLC
and tha	t 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
	oment installation and/or upon type of completion or upon use being made of the gas well herein named.
l he	reby request a one-year exemption from open flow testing for the Adams Ranch F-16
gas wei	ll 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
	rther agree to supply to the best of my ability any and all supporting documents deemed by Commissic necessary to corroborate this claim for exemption from testing.
Date: _5	5/27/14
	Signature: Molanda Pa
	Title: Regulatory Manager

Instructions:

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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.

MAY 29 2014

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