KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:					(See Ins	truct	ions on Rev	erse Side	;)				
Open	Flow				Test Date	·				ΛĐ	No 15			
✓ Delive	erabilty				07/16/20						1 No. 15 9-20239 –0 0	000		
Company Quantum F	Resour	ces Manage	emei	nt, LLC				Lease Adams F	Ranch			F-		Number
County Location Meade 1320' FSL & 330' FEL				Section 10			TWP 35S		RNG (E/W) 29W			Acres Attributed		
Field Cimmaron Bend				Reservoir Morrow / Chester / St. Gen			St. Gen		Gas Ga DCP	thering Conn	ection			
Completion Date 11/5/76				Plug Back Total Depth 6240'			l		Packer Set at					
Casing Size Weight 15.5#				Internal Diameter			Set at 6413'		Perforations 5882'		То 62	22'		
Tubing Size Weight 2 3/8"				Internal Diameter			Set at 6200'		Perforations		То			
Type Completion (Describe) Gas Well				Type Fluid Production Gas, Oil, Water			1		Pump Unit or Traveling Plunge Pumping Unit			Yes / No)	
Producing Thru (Annulus / Tubing) Tubing				% Carbon Dioxide			le		% Nitrogen		Ga	Gas Gravity - G		
Vertical Dep	oth(H)					i	Pres	sure Taps				(M	eter Run)	(Prover) Size
Pressure Bu	uildup:	Shut in 07	/16	20	13 at 9	:30		(AM) (PM)	Taken 07	7/17	20	13 _{at} 9:3	30	
Well on Line: Started2			`			(AM) (PM) Taken		20		at		_ (AM) (PM)		
<u> </u>					-	OBSE	RVE	D SURFACE	DATA			Duration of	Shut-in 2	4 Hours
Dynamic	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (Pm)		Pressure Differential in Inches H ₂ 0	Flowing Well Horemperature t		Wellhead Pre		Pressure) or (P _c)	Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration Liq (Hours)		quid Produced (Barrels)
Shut-In		psig (i iii)		inches 1120				250	psia_	psig 5	psia			
Flow						_								
					_	FLOW	STR	EAM ATTRI	BUTES					
Plate Coefficeient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension P _m xh	Fac	Gravity Factor F _g		Flowing femperature Factor F ₁₁	Deviation Factor F _p ,		Metered Fto R (Mcfd)	(Cui	GOR bic Feet/ Barrel)	Flowing Fluid Gravity G _m
					_									
(P _c) ² .=	:	(P)² :	=		(OPEN FL	OW) (DI		ERABILITY) % (P	CALCUL - 14.4) +		:		$(P_a)^2 = (P_d)^2 = (P_d$).207
-		(P _c) ² - (P _w) ² Choose formula 1 or 2: 1. P _c ² - P _s ² 2. P _c ² - P _d ² divided by: P _c ² - P _w ²		LOG of formula 1, or 2. and divide by:		7	Backpressure Curvi Slope = "n" or Assigned Standard Slope				Antilog C		Open Flow Deliverability als R x Antilog (Mcfd)	
		_				-								
Open Flow				Mcfd @ 14.6	35 psia			Deliverabi	ility			Mcfd @ 14.6	35 psia	
	_	•						•		o make to	he above repo	ort and that I	he has kno	owledge of
ie iacis stat	ieu mer	ein, and that s	ald f	eport is true	and correc	. EXEC	ued	uns the				noment III	C 122	
		Witness	(if any))		 -	-	_	Quantu	ııı Keso	urces Mana For	Gement, LLI Company		SC WIC
		ForCom	mission	n							Che	ocked by	M	IAY 2 9 21
														RECEIV

l dec	lare under penalty of perjury under the laws of the state of Kansas that I am authorized to request
	tatus under Rule K.A.R. 82-3-304 on behalf of the operator Quantum Resources Management, LLC
	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
	nent installation and/or upon type of completion or upon use being made of the gas well herein named. eby request a one-year exemption from open flow testing for the Adams Ranch F-7
	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
	her agree to supply to the best of my ability any and all supporting documents deemed by Commission accessary to corroborate this claim for exemption from testing.
Date: <u>5/</u> 2	27/14
	Signature: Allanda P

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.

CC WICHITA

MAY 29 2014