KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:				(-	See Instr	ructions on Rev	verse Side)			
Open Flo	w			Test Date	ı:			APU	No. 15		
✓ Deliverab			07/11/2013				119-	20254 - 0	000		
Company Quantum Res	es Managen	nent, LLC	Lease Adams Ranch			Ranch	F-8			Well Number	
County Location Meade 660' FSL & 660' FEL			Section 3		TWP 35S			N)		Acres Attributed	
Field Cimmaron Bend				Reservoir Morrow / Chester / St. Gen				Gas Gathering Connection DCP			
Completion Date 3/1/77				Plug Baci	k Total De	epth	Packer Set at		et at		
Casing Size Weight 1/2" 15.5#			Internal Diameter			Set at 6258'		ations	то 6094'		
ubing Size Weight			Internal Diameter		Set a	Set at 6118'		ations	То		
Type Completion (Describe) Gas Well					Type Fluid Production Gas, Oil, Water			Pump Unit or Traveling Plunger? (Yes) / No Pumping Unit			
Producing Thru (Annulus / Tubing)					% Carbon Dioxide			% Nitroge		Gas Gra	avity - G _g
Fubing Vertical Depth(I	H)	P-d/mdemoor			Pı	ressure Taps				(Meter F	Run) (Prover) Size
Pressure Buildu	ıp:	Shut in	1 2	0_13_at_9	:30	(AM)(PM)	Taken 07	7/12		13 at 9:30	(AM)(PM)
Well on Line: Started20			D at							(AM) (PM)	
					OBSER	VED SURFACI	E DATA			Duration of Shut-	in Hou
Static / Orif Dynamic Siz Property (incl	ze	Circle one: Meter Prover Pressur	Pressure Differential	Flowing Temperature t	Well Head Temperature t	Wellhead	Casing Wellhead Pressure (P_w) or (P_l) or (P_c)		ubing ad Pressure (P ₁) or (P _c)	Duration (Hours)	Liquid Produced (Barrels)
Shut-In		psig (Pm)	Inches H ₂ 0			psig 15	psia	psig 22	psia]	
Flow		_			_				 		
					FLOW S	STREAM ATTR	IBUTES				
Plate Coeffictient (F _b) (F _p) Mcfd		Circle ane: Meter or rover Pressure psia Press Extension Pm x h		Gravity Factor F _g		Flowing Temperature Factor F _{It}	mperature Factor F		Metered Flo R (Mcfd)	w GOA (Cubic Fe Barrel)	Flowing Fluid Gravity G _m
				1							
(P _c) ² =	:	(P_)² =_	:	(OPEN FL	OW) (DEI	LI VERABIL ITY % (F) CALCUL ² c - 14.4) +		.:	(P _a) [;] (P _d) [;]	2 = 0.207 2 =
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		$ (P_{o})^{2} - (P_{w})^{2} $ $ (P_{o})^{2} - (P_{w})^{2} $ $ (P_{o})^{2} - P_{o}^{2} - P_{o}^{2} $ $ (P_{o})^{2} - P_{o}^{2} - P_{o}^{2} $		LOG of formula 1. or 2. and divide by:		Backpre Slop 	Backpressure Curv Slope = "n" or Assigned Standard Slope		.og []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
	-						_				-
Open Flow			Mcfd @ 14.	65 psia		Deliverab	ility			/ Mcfd @ 14.65 psi	a
The unders	~	•				•		o make th	-	ort and that he ha	s knowledge of
	J. 4 .	,	p							gement, LLC	
		Witness (if	eny)			-	Guant	r.caou		Company	(CC WIC I
		For Commis	noise	-		-			Che	ecked by	MAY 29 20
											RECEIVE

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 Quantum Resources Management, LLC
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 Adams Ranch F-8 gas well 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 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.
Signature: <u>Yolanda</u> Pager Title: <u>Regulatory Manager</u>

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