KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:					6	Sée Instruc	tions on Re	verse Side))					
Op	en Flov	V				Test Date	,•			A DI	No. 15				
√ De	liverabi	lty				04/23/20					9-20348 - 60	201			
Company Quantun		ource	es Manage	eme	nt, LLC			Lease Adams	Ranch			F-15	Well Nu	mber	
County Location Meade 1150' FSL & 900			900' FEL	Section 13	TWP 35S		RNG (E/W) 29W		Acres Attributed		Attributed				
Field Cimmard	on Ber	nd				Reservoir Lansing		•		Gas Gar DCP	thering Conn	ection			
Completion Date 9/13/79				Plug Back Total Depth 6050'				Packer Set at							
Casing Size 5 1/2"				Weight 15.5#			Internal Diameter		Set at 6280'		rations 8'	To 4444'			
Tubing Size We 2 3/8"			Weig	jht		Internal Diameter		Set at 5284'		Perforations		То			
Type Con		(De	scribe)				d Productio Dil, Water	ın .	<u> </u>		nit or Traveling ing Unit	Plunger? Yes	/ No		
•	3 Thru	(Ann	ulus / Tubin	ıg)			arbon Diox			% Nitrog		Gas Gr	avity - (3 ₀	
Tubing Vertical D	epth(H)		······································			Pres	ssure Taps				(Meter I	Run) (P	rover) Size	
Pressure	Buildu	o: 8	Shut in 04	/23	2	13 at 8	:30	. (AM) (PM)	Taken 04	1/24		13 _{at} 8:30		(AM)(PM)	
Well on L	ine:	8	Started		2) at		. (AM) (PM)	Taken		20	at		(AM) (PM)	
			•				OBSERVE	D SURFAC	E DATA			Duration of Shut-	in 24	Hours	
Static / Dynamic Property	Size Pro		Circle one: Meter Prover Pressure		Pressure Differential in	lemperature Tempera		Wollhoad Proceure		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In	•••••	-/	psig (Pm)		Inches H ₂ 0		•	psig 10	psia	psig 50	psia	<u> </u>	 		
Flow								 		"					
							FLOW ST	REAM ATTR	RIBUTES						
Plate Coefficient (F _b) (F _p) Mcfd			Circle one: Meter or Prover Pressure psia		Press Grav Extension Fact √P _m x h F _c		tor Temperature		Fa	riation actor - pv	Metered Flow R (Mcfd)	w GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m	
				<u> </u>		(OPEN FL	OW) (DELIN	/ERABILITY) CALCUL	.ATIONS		(P _a)	²= 0.2	07	
(P _c) ² =	<u>-</u>	_:	(P _w) ² =		se formula 1 or 2:	P _d =			P _c - 14.4) +		:	(P _d)			
(P _c)²- (F or (P _c)²- (F	.	(P,	,)²- (P _w)²	2	. P ₂ ² -P ₂ ² . P _c ² -P _c ² nd by: P _c ² -P _c ²	LOG of formula 1. or 2. and divide by:	P _c ² - P _w ²	Slo	essure Curve pe = "n" - or ssigned lard Slope	n x	LOG	Antilog	Del Equals	pen Flow iverability in R x Antilog (Mcfd)	
	_														
Open Flor						65 neia		Deliverat				Mcfd @ 14,65 ps	ia		
•		aned	authority o				tates that h		•	o make t		ort and that he ha		ledge of	
		-	•			•		this the 2		day of __				20 <u>14</u> .	
									Quantu	m Reso		gement, LLC			
			Witness					•					CC I	NICHITA	
			For Com	πissioι	n						Che	cked by	IAY 2	9 2014	

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exempt status un and that the fore correct to the bes of equipment inst I hereby requ gas well on the g	der penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator Quantum Resources Management, LLC going pressure information and statements contained on this application form are true and at of my knowledge and belief based upon available production summaries and lease records allation and/or upon type of completion or upon use being made of the gas well herein named. Lest a one-year exemption from open flow testing for the Adams Ranch F-15 rounds that said well:
(Chec	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
	e to supply to the best of my ability any and all supporting documents deemed by Commission ry to corroborate this claim for exemption from testing.
	Signature: Yolanda Parameter 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

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