KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST (See Instructions on Reverse Side)

Type lest	: en Flo	w				ſ	See msir	ucuc	ns on me	verse side	"							
	liverab					Test Date 6/23/20	-					API No	. 15 -//9	- 204	141-00	01		
Company Quantun		ourc	es Manage	eme	ent	<u> </u>			Lease Adams	Ranch					F-21	Well Nu	ımber	
County Meade		-	Loca:		1999' FWL	Section 9			TWP 35S		RNG (E/W) 29W					Acres Attributed		
Field					Reservoir	,					Bas Gathering Connection				\$	RECEIVE		
Cimmarc						Toronto					DCI		<u>-</u>				JN 28 20	
Completic 1981 Orl			npletion			Plug Bac 6503'	k Total D	epth			Pack N/A	ter Set	at				214 5 0 56	
Casing Si 5 1/2"			Weig 15.5			Internal C	Internal Diameter			Set at 6076'		Perforations 4298'			To KCC WICHI			
Tubing Si 2 3/8"	Z 0		Weig 4.7#			Internal Diameter			Set at 4200'		Perforations				То			
Type Com Gas We		n (De				Type Flui Gas/W		tion		<u></u>			or Traveling		er? Yes	/ No		
		(Anı	nulus / Tubin	ia)			arbon Di	oxide				trogen	<u> </u>		Gas Gr	ravity - (3	
Both	,	,		-07					_		**					·,	-0	
Vertical D	epth(F	1)					Pi	ressu	re Taps					·	(Meter	Run) (P	rover) Size	
Pressure	Buildu	ıp:	Shut in 6/2	23	5	0 11 at 1	0:15		AM)(PM)	Taken 6/	23		20	11 a	10:15		(PM)	
Well on Li	ine:		Started 6/2	24	20	0 <u>11</u> at <u>1</u>	0:20	<u> </u>	ATA) (PM)	Taken 6/	24		20	11 a	10:20		(PM)	
							OBSER	VED	SURFACI	E DATA				Duratio	on of Shut	-in 24	Hours	
Static /	Orifi	ice	e Prover Pressure in		Flowing Well Head		ad	Casing Maliborat Processes			Tubing		D	Duration		Liguld Produced		
Dynamic Property	Siz (Inch				in	Temperature t	Temperature t		Wellhead Pressure (P_w) or (P_l) or (P_a)		Wellhead Pressure (P_u) or (P_i) or (P_o)		Duration (Hours)		(Barrels)			
	-		psig (Pm)		Inches H ₂ 0		· · · · · · · · · · · · · · · · · · ·		psig psia		 	psig psia						
Shut-In				4					150		45					-		
Flow	•		<u> </u>			<u> </u>			50		42							
51			Circle one:	Τ			FLOW S		AM ATTR	IBUTES		T						
Plate Coeffiect	ent	Mater or			Press Extension	Grav Fac	-		emperature		vlation actor		Metered Flow R		GOR (Cubic Fee		Flowing Fluid	
(F _b) (F _p) Mcfd		Prover Pressure psia			√ P _m xh	F,			Englor		F _{pv} (Mcfd)				Barrel)		Gravity G_	
				1								_						
			,			(OPEN FL	OW) (DEI	ΠΛΕ	RABILITY) CALCUL	ATIO	NS			(P _a)) ² = 0.2	207	
P₀)² =	· · · · · · · · · · · · · · · · · · ·	<u>=:</u> _	(P _w) ² :		<u> </u>	P _d =		%	(F	- 14.4) +	14.4	<u> </u>	 :		(P ₀)			
(P _o)2- (F)2	(F	2 ₀)2- (P ₄)2	Choc	pse formula 1 or 2: 1. Pa² - Pa²	LOG of	Γ -	۱ ۱		ssure Curve se = "n"	- 1		ر ٦,				pen Flow	
or (P)2- (P)2				2. p p		1. or 2. and divide			or Assigned		- '	n x LOG		A	Antilog		Deliverability Equals R x Antilog	
				divid	ed by: P _a ² - P _a ³	by:	P.* . P. *			ard Slope						 	(Mcfd)	
				-														
Dpen Flow Mcfd @ 14.6			AS nete			Deliverability			Mcfd @ 14				4.65 psia					
		iona	authority, o				tatas iks	. b.c				a tha	nhour				dodae cf	
			in, and that										•	ii ano			20 11	
	ر	1	1	- '		/_		••				anti		0 .		•		
			Witness	(if eny	, /			-	-	K	<u> X (I e</u>	<u>ant</u> u	For C	Company	our	<u>ک صور</u>		
			For Corn	missio	<u> </u>			-	-				Che	ked by				

I declare under pena	alty of perjury under the laws of the state of Kansas that I am author	ized to request						
•	K.A.R. 82-3-304 on behalf of the operator Quantum Resources	.200 10 1040001						
	ressure information and statements contained on this application for	m are true and						
	knowledge and belief based upon available production summaries and							
_	and/or upon type of completion or upon use being made of the gas well							
• •	e-year exemption from open flow testing for the Adams F-21							
gas well on the grounds t								
-								
(Check one)		RECEIVE						
is a co	is a coalbed methane producer							
is cyc	led on plunger lift due to water	JUN 2 8 20						
is a so	ource of natural gas for injection into an oil reservoir undergoing ER	KCC WICHI						
is on v	acuum at the present time; KCC approval Docket No.							
✓ is not	capable of producing at a daily rate in excess of 250 mcf/D							
	ply to the best of my ability any and all supporting documents deeme	ed by Commission						
staff as necessary to corr	roborate this claim for exemption from testing.							
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•								
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Date: 6/24/2011								
•								
•								
•	Signature: Juch	6						
•	Signature:	6						

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.