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## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:					(	See Instr	ruction	ns on Rev	verse Side	e)							
= :	en Flo					Test Date	١٠				ΔΕ	i No	15					
<b>√</b> De	liverab	ilty				10/15/20							. 125 <b>–0</b> 0	900				
Company Quantun		ourc	es Manag	eme	ent, LLC				Lease Adams I	Ranch		-	_		13-10	Well Nu	ımber	
County Location Meade 1575' FSL & 11					Section /L 10			TWP 35S	RNG (E/W) 29W				Acres Attributed					
ield Immarc	on Bei	nd				Reservoir Chester		en			Gas Ga DCP	atheri	ing Conn	ection	1			
ompletic /25/04	on Dat	e				Plug Bac 6347'	k Total De	epth			Packer	Set	at					
Casing Size Weight 1/2" 15.5#					Internal Diameter			Set a 6388	Perforations 5943'-6044'				то 6263'-6279'					
Tubing Size Weight 2 7/8"					Internal Diameter			Set at 6142'		Perforations				То				
Type Completion (Describe) Gas Well						Type Fluid Production Gas, Oil, Water			——————————————————————————————————————			Pump Unit or Traveling Plunge Pumping Unit				er? (Yes)/ No		
roducing	Thru	(Anr	nulus / Tubii	ng)			arbon Die				% Nitro				Gas Gr	avity -	G,	
/ertical D	epth(H	()					Pr	ressur	e Taps						(Meter	Run) (P	rover) Size	
Pressure	Buildu	p: :	Shut in 10	/15	2	0 13 at 1	0:30	(A	M)(PM)	Taken_10	0/16		20	13	at 10:30	(	(AM)(PM)	
Vell on L	ine:				20	0 at	· <u>-</u>									`	(AM) (PM)	
							OBSER	VED :	SURFACE	E DATA				Dura	ation of Shut-	in_24	Hours	
Static / Dynamic Property	Orifi Size (inch	e Prover Press		( מזני		Flowing Temperature t	Well Head Temperature t		Casing Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Duration (Hours)		Liquid Produced (Barrels)			
Shut-In			paig (Fili	'	Inches H <sub>2</sub> 0			1	psig 120	psia	psig 40		psia			+-		
Flow						_				_								
							FLOW S	TREA	M ATTRI	BUTES								
Plate Coeffiect (F <sub>b</sub> ) (F Mcfd	ient	Circle one: Meter or Prover Pressure psia			Press Extension  P <sub>m</sub> x h	Fact	Gravity Factor F <sub>0</sub>		emperature Fa		iation Metered Flow ctor R F <sub>pv</sub> (Mcfd)		w GOR (Cubic Fee Barrel)			Flowing Fluid Gravity G <sub>m</sub>		
						(OPEN FLO	DWA (DEI	IVED	A PILITY	CALCUI	ATIONE	<u> </u>						
o <sub>c</sub> )2 =		_:	(P <sub>w</sub> ) <sup>2</sup>		<u>:</u> _	P <sub>d</sub> =		%_	-	- 14.4) +			:		(P <sub>a</sub> )	$r^2 = 0.2$	.07 	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>e</sub> )² - (P <sub>w</sub> )²		Choose formula 1 or 2: 1. $P_c^2 \cdot P_a^2$ 2. $P_c^2 \cdot P_d^2$ divided by: $P_c^2 \cdot P_w^2$		LOG of formula 1. or 2. and divide by:			Backpressure Curve Slope = "n"			LOG	LOG		Antilog	Del Equals	pen Flow liverability s R x Antilog (Mcfd)	
			_			_		$\perp$								<u> </u>		
Open Flov					Model @ 144	SE peia			Dolivoroti					B. & co f co	@ 14 SE ===	in .		
			d models = dec		Mcfd @ 14.0		4-4 41		Deliverabi	- ·		41-			@ 14.65 psi			
					ehalf of the report is true						o make day of _		bove repo	ert an	a that he ha		ledge of 20 14 .	
								-	<b>-</b>	Quantu	m Resc	urce	es Manag					
			Witness	(if any	n — :				-	- <del></del>			ForC	>ompar		KCC	C WICH	
			For Com	missio	on			-	_				Chec	ked by			Y 2 9 20	

exempt sta and that th correct to the of equipme I hereb	tus under Penalty of perjury under the laws of the state of Kansas that I am authorized to request tus under Rule K.A.R. 82-3-304 on behalf of the operator Quantum Resources Management, LLC e foregoing pressure information and statements contained on this application form are true and ne best of my knowledge and belief based upon available production summaries and lease records int installation and/or upon type of completion or upon use being made of the gas well herein named. It is y request a one-year exemption from open flow testing for the Adams Ranch 13-10
_	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
	er agree to supply to the best of my ability any and all supporting documents deemed by Commission cessary to corroborate this claim for exemption from testing.
Date: _5/27	/14
	Signature: <u>Molanda</u> 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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