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

Type Test:	•		ABILIZED (See II		on Reverse			MUILII	1 1231	MAY .
Open Flo	w		T 1 D				451.44			15 2
✓ Deliverab	ilty		Test Date: 5/4/14				API No 119-2	o. 15 <b>0441 ~ 0</b> 0	00	RECEN
Company Quantum Res	ources Manag	ement, LLC			ease dams Rand	ch ch	- "		F-21	KCC WICHAY 15 26  RECEIVE Well Number
County Meade	Loca 1750' F	ition NL & 2000' FWL	Section 9		NP 5S	RN 29	IG (E/W) W	)		Acres Attributed
Field Cimmaron Be	nd		Reservoir Toronto			Ga: D(		ring Conn	ection	
Completion Dat 9/24/86			Plug Back Tota 6503'			Pad	cker Set	at		
Casing Size Weight 5 1/2" 15.5#		Internal Diameter		Set at 6076'		Perforations 4298'		To 4308'		
Tubing Size Weight 2 3/8"		jht 	Internal Diamet		Set at Perforations 4200'			_	То	
Type Completion (Describe) Gas Well Producing Thru (Annulus / Tubing)			Type Fluid Production Gas, Oil, Water  % Carbon Dioxide			Pumping Unit				/ No avity - G <sub>e</sub>
Tubing Vertical Depth(F		ng) 	% Carbon	Pressure '	Tans	% 1	Nitrogen	<del></del>		Run) (Prover) Size
Torriour Doping	·/							_	(woter i	Tuny (F10Very Size
Pressure Buildu	•	20	14 at 10:30	$\overline{}$	(PM) Take				14 at 10:30	(AM)(PM)
				(AIII		''		20	at	
	<del></del> 1		OBS	ERVED SL	IRFACE DAT	ГА			Duration of Shut-	in 24 Hours
Static / Orifice Opnamic Size Once Opnamic (inches) Opnamic Op		Flowing Well Head Temperature Temperature t t		Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Ouration L (Hours)	Liquid Produced (Barrels)	
Shut-In	poig ( in	, , , , , , , , , , , , , , , , , , , ,		50	sig ps	55	psig 5	psta		
Flow										
	_		FLOV	V STREAM	ATTRIBUT	ES				
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension	Gravity Factor F <sub>g</sub>	Flow Tempe Fac F	rature ctor	Deviation Factor F <sub>pv</sub>	1	Metered Flov R (Mcfd)	y GOR (Cubic Fee Barrel)	Flowing Fluid Gravity G <sub>m</sub>
(P <sub>c</sub> ) <sup>2</sup> =	_:_ (P <sub>#</sub> )²	=:	(OPEN FLOW) (I	DELIVERAI		.4) + 14.4		:		= 0.207
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2: 1. $P_c^2 - P_e^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$		-	Backpressure ( Slope = "n or Assigned Standard Slo	*	n x LO	ā [ ]	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
									<u> </u>	
Open Flow		Mcfd @ 14.6	 65 psia	De	liverability				Mcfd @ 14.65 psi	 a
The unders	•	on behalf of the	Company, states	that he is	duly authoriz			above repo	<del>-</del>	
ne facts stated t	herein, and that	said report is true	and correct. Exe	cuted this t	the <u>14th</u>	day	of May	<u>,                                    </u>		, 20
					Qua	antum R	esourc	es Manao	rement, LLC_	WICHITA

exempt status under Rule K.A.R. 82-3-304 and that the foregoing pressure information correct to the best of my knowledge and to of equipment installation and/or upon type	tion and statements contained on this ap belief based upon available production su	ources Management, LLC oplication form are true and immaries and lease records f the gas well herein named. Ranch F-21
is on vacuum at the pr is not capable of prod  I further agree to supply to the best of	ift due to water gas for injection into an oil reservoir unde resent time; KCC approval Docket No lucing at a daily rate in excess of 250 mcf	
Staff as necessary to corroborate this class	\$ · 0 ~	lodijz

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

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