RECEIVED

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes					('See Instruc	tions on Rev	verse Side)				
_ `	en Flov eliverabi				Test Date 4/29/20					No. 15 3-20939-00-0	n		
Company		_	· -	<u></u>	4/29/20	13	Lease			-20939-00-0		Well Nur	nber
Caerus	Wash(Co L			0		CRAM		5110 /5		33-20		
County Cheyeni	ne -		Locatio NWNW8		Section 20		TWP 5S		RNG (E	W)		Acres At 160	tributed
Field Cherry (Creek				Reservol Niobrara			_		hering Conne GATHERIN		-	
Completi 3/13/20(e			Plug Bac 1614'	k Total Dep	oth		Packer S N/A	Set at			
Casing S 1.5"	Size		Weight 10.5#		Internal I 4"	Internal Diameter 4"		Set at 1640'		rations 6'	то 1478'		
Tubing S 2.375"	ize		Weight 4.75#		Internal I 2"	Diameter	Set a 148		Perfo	rations	То		
Type Cor N2 Fra		ı (De				d Production			Pump Ur YES, I		Plunger? Yes	/ No	
	_	(Anr	nulus / Tubing)		arbon Diox	tide				Gas Gravity - G		
ANNUL Vertical [1)			<1%	Pres	ssure Taps		<1%		(Meter I	Run) (Pr	over) Size
1666'													
Pressure	Buildup	p: -	Shut in <u>4/29</u>	2	0 13 at 1	0:20AM	. (AM) (PM)	Taken_4/	30	20 .	13 at 12:00F	<u>M</u> (/	AM) (PM)
Well on L	ine:	1	Started	2	0 at		. (AM) (PM)	Taken		20 .	al	(/	AM) (PM)
						OBSERVI	ED SURFACI	E DATA		1	Duration of Shut-	in	Hours
Static / Dynamic Property	Orifice Size (inches)		Circle one: Meter Prover Pressur .psig_(Pm)	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P ₁) or (P _a) psig psia		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In			, , , , , ,	1			143	psia	psig	psia			
Flow								_					
	1		' <u>-</u>			FLOW ST	REAM ATTR	IBUTES	·				
Plate Coefficeient (F _b) (F _p) Mofd			Circle one: Meter or Prover Pressure psia Pmx h		Gravity Factor F _g		Flowing Temperature Factor F _{II}	emperature Factor F		Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G _m
-		•		13		`		_		- 			
P,)2 =		_:	(P _w)² =_	 ·	OPEN FL - P _a ∷		/ERABILITY % (F) CALCUL ', -14.4) +		<u>:</u> -	(P _a)	²= 0.20)7 -
(P _c) ² - (or (P _c) ² - (-	(P	P _c) ² - (P _w) ² -	hoose formula 1 or 2 1. $P_c^2 - P_s^2$ 2. $P_c^{-2} - P_d^2$ ivided by: $P_c^2 - P_s^2$	LOG of formula 1. or 2. and divide	P _c ² - P _w ²	Slor Ass	ssure Curve be = "n" or	n x	roe [_]	Antilog -	Deli Equals	en Flow verability R x Antilog Mcfd)
<u> </u>													
Open Flo	ow			Mcfd @ 14.	65 psia		Deliverab	ility			// // // // // // // // // // // // //	 ia	
The	undersi	gned	d authority, on	behalf of the	Company,	states that	he is duly au	ıthorized t	o make ti	ne above repor	t and that he ha	ıs knowl	edge of
he facts s	stated th	nerei	n, and that sai	d report is true	e and correc	t. Execute	d this the	8	day of	April		, 2	eo <u>14</u> .
			VACSA CF	any)			_		/	Jan 6	Ben for	(CC	<u> \//I∩</u> ⊨
			Witness (if	влу)						Tror Co	unhauta 8	VOC	AAIOI

	eclare 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 Caerus WashCo LLC
and tha	t 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
	ment installation and/or upon type of completion or upon use being made of the gas well herein named.
	reby request a one-year exemption from open flow testing for the CRAM 33-20
gas we	l 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
	[#] to the configuration of broadoning axia daily take interactional manager in the second of the se
l fu	rther agree to supply to the best of my ability any and all supporting documents deemed by Commission
	necessary to corroborate this claim for exemption from testing.
	···
	Ulelu1
Date:	4/8/14
Date:	4/8/14
Date: 	4/8/14
Date: 	4/8/14
Date: 	4/8/14
Date: 	4/8/14 Signature:— An Bak
Date: 	4/8/14 Signature: — An Bak Title: Operations Engineer

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.

APR 09 2014

RECEIVED