KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:: en Flov	N .	B SI	-		(Test Date		uctio	ons on Re	everse Sid	Θ)	API N	lo. 15					
Deliverabilty						6/20/20						20361-00 0	0					
Company Rosewoo		soui	ces						Lease Pancak	ке					3-10	Well Nu	ımber	
County Location Sherman NENW			Section 10						RNG (E/W) 39W				Acres Attributed 80					
Field Goodland			Reservoir Niobrara				Gas Gathering Connection Branch Systems Inc.											
Completion 9/8/2004		9				Plug Bac 1174'	Plug Back Total Depth 1174'				Packer Set at							
Casing Size Weight 2 7/8" 6.5#				Internal Diameter 2.441			Set at 1185'			Perforations 1005'			то 1033'					
Tubing Si	ize		Weigl	nt		Internal Diameter Set at				at	Perforations							
Type Con Single (Type Fluid Production Dry Gas				Pump Unit or Traveling Plunger? Ye					7 (No		
	g Thru		nulus / Tubin	g)		% Carbon Dioxide					% Nitrogen				Gas Gravity - G _g			
Vertical D)				Pressure Taps										Run) (P	rover) Size	
Pressure	Buildu	p: :	Shut in 6-1	9_	2	Flange 20 13 at 4:45 (AM) (PI					1) Taken 6-20 20 13					3 at 4:55 (AMX(PM))		
Well on L	ine:	:	Started 6-2	0_	20	0 13 at 4	:55	(AM) (PM)	Taken 6	-21		20	13 at	5:45		(AM)(PM)	
							OBSER	VED	SURFAC	E DATA				Duratio	on of Shut-	in 24	Hours	
Static / Dynamic Property	amic Size Prover Pressure		ure	Pressure Differential in Inches H ₂ 0	Flowing Well Head Temperature t		- 1	(P _w) or (P _t) or (P _c)			Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)			Liquid Produced (Barrels)		
Shut-In	'		poig (i iii)		1101100 1120			\uparrow	psig 8	22.4	 	psig	psia_					
Flow									5	19.4				24		0		
		_		_			FLOW S	TRE	AM ATTR	RIBUTES								
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension	Gravity Factor F _g			Flowing mperature Factor Fn	Fa	Deviation Factor F _{pv}		Metered Flow R (Mcfd)		GOR (Cubic Fe Barrel)		Flowing Fluid Gravity G _m		
													3					
P _c) ² =		,	(P _w) ² =	_	•	(OPEN FLO	OW) (DEL	.IVE		/) CALCUI P _c - 14.4) +					(P _a)) ² = 0.2	207	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ² 1. P		P2-P2 LOG of formula 1 or 2: P2-P2 to formula 1 or 2: P2-P2 1. or 2. and divide P2-P2			Backpressure Curve Slope = "n"		9	n x l OG		Α	Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)			
				divid	ed by: $P_c^2 - P_w^2$	by:	<u></u>		Stand	ard Slope	_					-		
Open Flov	w				Mcfd @ 14.	65 psia			Deliverab	oility				Mcfd @	14.65 ps	ia		
			l authority, o						•				-	rt and t	that he ha		=	
he facts st	tated th	erei	n, and that s	aid 1	report is true	e and correc	t. Execut	ed th	his the <u></u>		day '	of 140	vember		1/n i	T)	20 13	
	.		Witness (if any	r)			-	-		بار		For	Company	· W	KC	C WICI	
			For Comm	nissio	n			-	-			<u> </u>	Che	ked by			·	

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exempt status under and that the foregoi correct to the best o of equipment installa I hereby reques	penalty of perjury under the laws of the state of Kansas that I am authorized to request Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc. In pressure information and statements contained on this application form are true and my knowledge and belief based upon available production summaries and lease records ation and/or upon type of completion or upon use being made of the gas well herein named. It is a one-year exemption from open flow testing for the Pancake 3-10
gas well on the grou	nds that said well:
i: i: i: v i:	s a coalbed methane producer s cycled on plunger lift due to water s a source of natural gas for injection into an oil reservoir undergoing ER s on vacuum at the present time; KCC approval Docket No s not capable of producing at a daily rate in excess of 250 mcf/D
-	o supply to the best of my ability any and all supporting documents deemed by Commission ocorroborate this claim for exemption from testing.
Date: 11/26/13	
	Signature:

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.

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W415 Pancake 3-10 North Goodland Goodland None June-13

	Casing			HRS		REMARKS
DATE	PSI	STATIO	C MCF	DOWN		(Maximum length 110 characters)
6/1/2013		5	18	6	0	
6/2/2013	•	5	18	6	0	
6/3/2013		5	18	6	0	
6/4/2013		5	18	6	0	
6/5/2013		5	18	6	0	
6/6/2013		5	18	6	0	
6/7/2013		5	18	6	0	
6/8/2013		5	18	6	0	
6/9/2013		5	18	6	0	
6/10/2013		5	18	6	0	
6/11/2013		5	18	6	0	
6/12/2013		5	18	7	0	
6/13/2013		5	18	7	0	
6/14/2013		5	18	6	0	
6/15/2013		5	18	6	0	
6/16/2013		5 .	18	6	0	
6/17/2013		5	18	6	0	
6/18/2013		5	18	7	0	
6/19/2013		5	18	7	0	shut in
6/20/2013		8	21	0	24	opened up
6/21/2013		5	18	7	0	
6/22/2013		5	18	7	0	
6/23/2013		5	18	7	0	
6/24/2013		5	18	7	0	
6/25/2013		5	18	6	0	
6/26/2013		5	18	6	0	
6/27/2013		5	18 -	6	0	
6/28/2013		5	18	6	0	
6/29/2013		5	18	6	0	
6/30/2013		5	18	6	0	
7/1/2013					0	

Total 182

W415 Pancake 3-10 North Goodland Goodland None July-13

	Casing			HR	S	REMARKS
DATE	PSI	STATIC	MCF	DO	WN	(Maximum length 110 characters)
7/1/2013		5 1	8	6	0	cal
7/2/2013		5 1	8	6	0	
7/3/2013		5 1	8	6	0	
7/4/2013		5 1	8	6	0	
7/5/2013		5 1	8	6	0	
7/6/2013		5 1	8	6	0	
7/7/2013		5 1	8	6	0	
7/8/2013		5 1	8	6	0	
7/9/2013		5 1	8	6	0	
7/10/2013		5 1	8	6	0	
7/11/2013		5 1	8	6	0	
7/12/2013		5 1	8	6	0	
7/13/2013		5 1	8	6	0	
7/14/2013		5 1	8	6	0	
7/15/2013		5 1	8	6	0	
7/16/2013		5 1	8	6	6.5	
7/17/2013		5 1	8	5	0	
7/18/2013		5 1	8	6	0	
7/19/2013		5 1	8	6	0	
7/20/2013		5 1	8	6	0	
7/21/2013		5 1	8	6	0	
7/22/2013		5 1	8	6	0	
7/23/2013		5 1	8	6	0	high a rid limit, messed with wires no help, met-
7/24/2013		6 1	9	4	0	replaced temp sensor, unplugged and restarted r
7/25/2013		6 1	9	4	0	
7/26/2013		5 1	8	6	0	
7/27/2013		5 1	8	6	0	
7/28/2013		5 1	8	6	0	
7/29/2013		5 1	8	6	0	
7/30/2013		5 1	8	6	0	
7/31/2013		5 1	8	6	0	

Total 181