KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes			TAST		(See Instruct	tions on Re	everse Side)				
	en Flo eliverat				Test Date 6/13/20					No. 15 -20427-01-0	00		
Company		esou	rces, Inc.				Lease G. Ihri	g			21-20	Well Nur	nber
County Location Sherman NENW			Section 20				RNG (E/W) 39W			Acres Attributed 80			
Field Goodland			Reservoi Niobrara			Gas Gathering Conne Branch Systems Inc							
Completion 8/29/20		te			Plug Bac 3266'	k Total Dept	th		Packer S	Set at			
Casing Size Weight 4 1/2" 10.5#			Internal [4.000	Diameter	Set at 3266'		Perforations 3197'		To 3212'				
Tubing S NONE	ize		Weigh	t	Internal Diameter Set at			at	Perfo	То			
Type Cor Single (•		•		Type Flui Dry Ga	d Production	n		Pump Ur Flowin	nit or Traveling	Plunger? Yes	No	
Producing Thru (Annulus / Tubing) Annulus			3)	% Carbon Dioxide				% Nitrogen		Gas Gr .6	Gas Gravity - G _g .6		
Vertical D	Depth(H	1)				Pres Flan	sure Taps ge				(Meter I 2"	Run) (Pro	over) Size
Pressure	Buildu	ıp:	Shut in 6-1	2 2	0 13 at 3	:05	(AM) (PM)	Taken 6-	13	20	13 _{at} 3:15	(<i>A</i>	AM) (PM)
Well on L	ine:		Started 6-1	3 2	0 <u>13</u> at <u>3</u>	:15	(AM)(PM)	Taken 6-	14	20	13 _{at} 4:05	(AM) (PM)
						OBSERVE	D SURFAC	E DATA	,		Duration of Shut-	_{in_} 24	Hours
Static / Dynamic Property	Dynamic Size			Meter Differential		Flowing Well Head Temperature t		Casing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia		Fubing ad Pressure r (P ₁) or (P _c) psia	Duration (Hours)		Produced arrels)
Shut-In		•		-			16	30.4	psig	psia			
Flow							6	20.4			24	0	
			Circle one:			FLOW STR		RIBUTES	•			Т	
Plate Coeffiecient (F _b) (F _p) Mcfd		Pro	Meter or over Pressure psia	Press Extension ✓ P _m x h	Grav Fac F	tor 1	Flowing Femperature Factor F _{f1}	Fa	iation ctor : pv	Metered Flow R (Mcfd)	w GOR (Cubic Fe Barrel)	et/	Flowing Fluid Gravity G _m
										16			
					•	OW) (DELIV		•				² = 0.20)7
(P _c) ² =		<u>-:</u>	· ·	: Choose formula 1 or 2	P _d =		1	P _c - 14.4) +	14.4 =	:	(P _d):	* = 	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(F	P _c) ² - (P _w) ²	1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_a^2$	LOG of formula 1. or 2. and divide by:	P _c ² - P _w ²	Backpressure Curve Slope = "n" or Assigned Standard Slope		n x LOG		Antilog	Deliv Equals	en Flow verability R x Antilog Mcfd)
Open Flow Mcfd @ 14.65 psia					·····	Deliverability Mcfd			Mcfd @ 14.65 psi	d @ 14.65 psia			
		iane	d authority or		· ·	states that h			n make th		ort and that he ha		edge of
		•	•	id report is true	and correc		this the 2	6		•	-Mait	,2 B/1□	0 <u>13</u> .
			Witness (i			,			/~~ (run For (Company	(1
			For Comm	ission	——DE	C 262	UIJ .			Che	cked by		

CONSERVATION DIVISION WICHITA KS

exempt status under and that the foregoin correct to the best of of equipment installar	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 tion and/or upon type of completion or upon use being made of the gas well herein named. The angle of the gas well herein named. The angle of the gas well herein named.
gas well on the grour	
is	a coalbed methane producer cycled on plunger lift due to water a source of natural gas for injection into an oil reservoir undergoing ER on vacuum at the present time; KCC approval Docket No not capable of producing at a daily rate in excess of 250 mcf/D supply to the best of my ability any and all supporting documents deemed by Commission corroborate 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 former beautiful to signed and dated on the front side as though it was a verified report of annual test results. KANSAS CORPORATION COMMISSION

W2269 G. Ihrig 21-20H North Goodland

Goodland

None

June-13

FloBoss

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

Total 437

RECEIVED KANSAS CORPORATION COMMISSION

W2269 G. Ihrig 21-20H North Goodland Goodland None

July-13

FloBoss

	Casing			H		REMARKS		
DATE	PSI	STATIC MCF		DO	OWN	(Maximum length 110 characters)		
7/1/2013	(5 19)	16	0			
7/2/2013	6	5 19)	16	0			
7/3/2013	(5 19		16	0			
7/4/2013	(5 19)	16	0			
7/5/2013	(5 19)	16	0			
7/6/2013	6	5 19	•	16	0			
7/7/2013	6	5 19		16	0			
7/8/2013	6	5 19	•	16	0			
7/9/2013	6	5 19)	16	0			
7/10/2013	(5 19	•	16	0			
7/11/2013	. (5 19)	16	0			
7/12/2013	ϵ	5 19)	17	0	•		
7/13/2013	Ć	19)	16	0			
7/14/2013	ť	5 19)	16	0			
7/15/2013	ć	19)	16	0			
7/16/2013	24	37	•	13	6.5			
7/17/2013	6	19)	13	0			
7/18/2013	6	19)	15	0			
7/19/2013	6	19)	16	0			
7/20/2013	ϵ	19	•	16	0			
7/21/2013	,6	19	•	16	0			
7/22/2013	. (19)	16	0			
7/23/2013	ϵ	19	1	16	0			
7/24/2013	7	20)	16	0	,		
7/25/2013	7	20	1	16	0			
7/26/2013	7	20	ı	16	0			
7/27/2013	ϵ	19	١	16	0			
7/28/2013	ϵ	19	ı	16	0			
7/29/2013	ϵ	19	ı	16	0			
7/30/2013	, 6	19		16	0			
7/31/2013	6	19		17	0			

Total 491

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