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

Open Flow	Deliverability Company			Test Date:								
Deliverability   G/2/2015   181-20422-0000	Company	у		JESI Dale.				A D1				
Rosewood Resources    Homestead   42-5												
Sherman SENE 5 7S 39W 80  Field Reservoir Roodland Reservoir Roodland Reservoir Robotata Branch Systems Inc.  Completion Date 3-16-2006 1173'  Casing Size Weight Internal Diameter Set at Perforations To 1040' 1066'  Tubing Size Weight Internal Diameter Set at Perforations To 1040' 1066'  Tubing Size Weight Internal Diameter Set at Perforations To 1040' 1066'  Tubing Size Weight Internal Diameter Set at Perforations To 1040' 1066'  Tubing Size Weight Internal Diameter Set at Perforations To 1040' 1066'  Tubing Size Weight Internal Diameter Set at Perforations To 1040' 1066'  Type Completion (Describe) Type Fluld Production Pump Unit or Traveling Plunger? Yes / No Single (Conventional) Dry Gas Flowing  Producing Thru (Annulus / Tubing) % Carbon Dioxide % Nitrogen Gas Gravity - G, 6  Wertical Depth(H) Pressure Taps (Meter Run) (Prover) Size Pressure Buildup: Shut in 6-1 20 15 at 2:00 (AM) (M) Taken 6-2 20 15 at 2:15 (AM) (P) Taken 6-3 20 15 at 3:00 (AM) (P) Taken 6-3 20 (AM) (P) Taken 6-3 (AM) (P) Taken 6		ources					ead			42-5	Well Nu	mber
Goodland  Niobrara  Branch Systems Inc.  Completion Date 3-16-2006  Plug Back Total Depth 1173'  Casing Size Weight 1173'  Casing Size Weight 2.441 1173' 1040' 1066'  Tubing Size Weight Internal Diameter Set at Perforations To 1066'  Tubing Size Weight Internal Diameter Set at Perforations To 1066'  Tubing Size Weight Internal Diameter Set at Perforations To 1066'  Type Completion (Describe) Type Fluid Production Pump Unit or Traveling Plunger? Yes / No Single (Conventional) Dry Gas Flowing  Producing Thru (Annulus / Tubing) % Carbon Dioxide % Nitrogen Gas Gravity - Gg Annulus .6  Vertical Depth(H) Pressure Taps (Meter Run) (Prover) Single (Conventional) Shut in 6-1 20 15 at 2:00 (AM) (PM) Taken 6-2 20 15 at 2:15 (AM) (PM) Taken 6-3 20 15 at 3:00 (AM) (PM) Taken 6-3 20 15 at 3:			n :									Attributed
Completion Date 3-16-2006  Plug Back Total Depth 1173'  Casing Size Weight 2 7/8" 6.5# 2.441 1173' 1040' 1066'  Tubing Size Weight Internal Diameter Set at Perforations To none  Type Completion (Describe) Single (Conventional)  Producing Thru (Annulus / Tubing) Annulus  Vertical Depth(H) Pressure Buildup: Shut in 6-1  Pressure Buildup: Shut in 6-1  Started  OBSERVED SURFACE DATA  Packer Set at Perforations  To  Perforations  To  Pump Unit or Traveling Plunger? Yes / No  Flowing  Pump Unit or Traveling Plunger? Yes / No  Nitrogen  Gas Gravity - G <sub>g</sub> (Meter Run) (Prover) S  (Meter Run) (Prover) S  Elange  OBSERVED SURFACE DATA  Static / Oriffice Dynamic Size Prover Pressure Prover Pressure Differential Prover Pressure Differential Prover Pressure Differential Prover Pressure Differential Prover Pressure In Set (Par) or (P <sub>1</sub> ) or (P <sub>2</sub> ) or (P <sub>3</sub> )												
2 7/8"  6.5#  2.441  1173'  1040'  1066'  Tubing Size Weight Internal Diameter Set at Perforations To none  Type Completion (Describe) Single (Conventional)  Producing Thru (Annulus / Tubing)  Producing Thru (Annulus / Tubing)  Annulus  Vertical Depth(H)  Pressure Buildup: Shut in 6-1  Vertical Depth(H)  Pressure Buildup: Shut in 6-1  Vertical Depth(H)  Pressure Buildup: Shut in 6-1  OBSERVED SURFACE DATA  OBSERVED SURFACE DATA  Orifice Dynamic Size Weight Internal Diameter Set at Perforations  To none  Pump Unit or Traveling Plunger? Yes / No Flowing  Flowing  Flowing  Gas Gravity - G <sub>g</sub> (Meter Run) (Prover) Set at 2:15  (AMC/PA  Taken 6-2  20 15 at 2:15  (AMC/PA  Well on Line: Started 6-2  Orifice Dynamic Size Property (Inches)  Static / Orifice Dynamic Size Property (Inches)  Flowing Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>2</sub> )  Well head Temperature (P <sub>w</sub> ) or (P <sub>2</sub> ) or (P <sub>3</sub> ) or (P <sub>3</sub> ) or (P <sub>4</sub> ) or (P <sub>5</sub> ) or (P <sub>5</sub> ) or (P <sub>6</sub> )  United Production (Hours)  Liquid Production (Barrels)	•				al Depti	n			<del></del>			
Tubing Size Weight Internal Diameter Set at Perforations To  Type Completion (Describe) Single (Conventional)  Producing Thru (Annufus / Tubing) Producing Thru (Annufus / Tubing)  Annufus  Vertical Depth(H) Pressure Buildup: Shut in 6-1  Pressure Buildup: Shut in 6-1  Started 6-2  Orifice Opynamic Size Meter Property (Inches) Pressure Buildup: State (Pm) or (Pt) o					eter							
Type Completion (Describe) Single (Conventional)  Producing Thru (Annulus / Tubing)  Annulus  Pressure Taps  Flowing  Pressure Buildup: Shut in 6-1 20 15 at 2:15 (AM) (PM) Taken 6-3 20 15 at 3:00 (AM) (PM) Taken 6-3  Static / Orifice Dynamic State Property (Inches)  Pressure Hullon Line: State (Meter Run)  Type Fluid Production Pump Unit or Traveling Plunger? Yes / No Production Plunger? Yes / No Plunger?	-				Set a	Set at Perforations						
Producing Thru (Annulus / Tubing)  % Carbon Dioxide  % Nitrogen  Gas Gravity - G <sub>g</sub> Annulus  .6  Vertical Depth(H)	Type Completion (Describe)  Type Fluid Production  Pump Unit or Traveling Plunger? Yes / No									<del>_</del>		
Vertical Depth(H)  Pressure Taps  (Meter Run) (Prover) S  Pressure Buildup: Shut in 6-1  Pressure Buildup: Shut in 6-1  Pressure Buildup: Shut in 6-1  Orifice Dynamic Dynamic Size Properly (Inches)  Properly (Inches)  Pressure Taps  (Meter Run) (Prover) S  (AM) PM) Taken 6-2  20 15 at 2:15  (AM) PM) Taken 6-3  OBSERVED SURFACE DATA  Duration of Shut-in 24  Temperature Temperature Temperature (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>2</sub> )  Well Head Temperature (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>2</sub> )  Duration (Hours)  Liquid Product (Barrels)	Producing Thru (A									_		
Pressure Buildup: Shut in 6-1 20 15 at 2:00 (AM) (PM) Taken 6-2 20 15 at 2:15 (AM) (PM) Taken 6-3 20 15 at 3:00 (AM) (PM) (PM) Taken 6-3 20 15 at 3:00 (AM) (PM) (PM) Taken 6-3 20 15 at 3:00 (AM) (PM) (PM) (PM) (PM) (PM) (PM) (PM) (P											<del>_</del>	
Well on Line: Started 6-2 20 15 at 2:15 (AM) (PM) Taken 6-3 20 15 at 3:00 (AM) (PM)  OBSERVED SURFACE DATA  Static / Orifice Dynamic Size Proper Pressure Property (Inches) Pressure Pressure Property (Inches) Pressure Property (Inches) Pressure Pressure Property (Inches) Pressure Pressure Property (Inches) Pressure Pressure Pressure Pressure Pr		•							·			
Static / Orifice Dynamic Size Property (Inches)	Pressure Buildup:	Shut in 6-1	20	15 <sub>at</sub> 2:00		(AM) (PM)	Taken_6-	2	20	15 at 2:15	(	AM((PM))
Static / Orifice Dynamic Size Property (Inches)	Well on Line:	Started 6-2	20	15 <sub>at</sub> 2:15		(AM) (PM)	Taken 6-	3	20	15 at 3:00	(	AM)(PM)
Static / Orifice				OBS	SERVE	SURFACE	DATA			Duration of Shut	in. 24	Hours
Property (Inches) prin (Pm)   Jackson H.O. 1	Static / Orifice Meter Dynamic Size Proyer Pressure in Te		emperature Temperature		Wellhead Pressure		Wellhead Pressure					
		3	1	f	psig psia		<del></del>					
Shut-in 13 27.4	<del></del>	<del></del>	<del>                                     </del>		-	<del></del>		_	-		<del> -</del>	
Flow 6 20.4 24 0												
FLOW STREAM ATTRIBUTES												
Coefficient Meter or Extension Factor Temperature Factor R (Cubic Feet/ Fluid	Coeffictient (F <sub>b</sub> ) (F <sub>p</sub> )	Coefficient Meter or Extension Factor Factor F. P.x.h F.		emperature Factor	Fac	ictor R		(Cubic Fe		Flowing Fluid Gravity G <sub>m</sub>		
4				_				_	4			
(OPEN FLOW) (DELIVERABILITY) CALCULATIONS (P <sub>a</sub> ) <sup>2</sup> = 0.207			(0	PEN FLOW) (	DELIVE	RABILITY)	CALCUL	ATIONS		(P <sub>a</sub> )	²= 0.20	
$(P_c)^2 = $ : $(P_w)^2 = $ : $(P_d)^2 = $ : $(P_d)^2 = $ : $(P_d)^2 = $ :	(P <sub>c</sub> ) <sup>2</sup> =:		: <u></u>	P <sub>d</sub> =	%	(P	<u>- 14.4) +</u>	14.4 =	:	(P <sub>d</sub> )	2 =	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		$(P_c)^2 - (P_w)^2 \qquad 1, P_c^2 - P_a^2 \qquad LOG \text{ of } \\ \text{formula} \\ 2, P_c^2 - P_a^2 \qquad 1, \text{ or } 2, \\ \text{and divide} \qquad P_c^2 - P_a^2 \qquad Assigned$		lope = "n"		Antilog	Antilog Deliver					
(Mcfd)    Assigned   Standard Stope   Assigned   Standard Stope   Assigned   Standard Stope   Assigned   Assigned   Standard Stope   Assigned	V 67 V 07	divi	rided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>					-			<del>                                     </del>	Mcfd)
				_ <del>_</del>		<u> </u>					<del> </del>	
Open Flow Mcfd @ 14.65 psia Deliverability Mcfd @ 14.65 psia	Open Flow		Mcfd @ 14.65	psia		Deliverab	lity			Mcfd @ 14.65 ps	ia	
The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge or	The undersign	ned authority, on b	behalf of the Co	mpany, states	that he	is duly au	thorized to	make th	above repo	rt and that he ha	as knowl	edge of
the facts stated therein, and that said report is true and correct. Executed this the 22 day of December , 20 15	the facts stated ther	rein, and that said	d report is true ar					day of De	ecember			
Witness (if any) KCC WICH! To Learn Marting		Witness (if an		KC	C_W	ICHIT		Ten	MU For C	Ma.	Illi	· Y
APR_0 7 2016Checked by				AF	PR_0	7 2016_			Chec	ked by		

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	e under penalty of perjury under the laws of the state of Kansas that I am authorized to request us under Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc.						
	e foregoing pressure information and statements contained on this application form are true and						
correct to th	e best of my knowledge and belief based upon available production summaries and lease records						
of equipmer	nt installation and/or upon type of completion or upon use being made of the gas well herein named.						
l hereby	request a one-year exemption from open flow testing for the Homestead 42-05						
gas well 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						
I further	agree to supply to the best of my ability any and all supporting documents deemed by Commission						
	essary to corroborate this claim for exemption from testing.						
Date: 12/22	2/15						
Dato.							
	11 111/2 60-						
	KCC WICH!TS gnature:						
	APR 0 7 2016 Title: Production Assistant						
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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.

W405 Homestead 42-05 North Goodland Goodland None June-15

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOWN		(Maximum length 110 characters)
6/1/2015	13	25	(	)	24	
6/2/2015	13	25	(	)	24	
6/3/2015	13	25	. 4	1	0	
6/4/2015	11	24	. 4	1	0	
6/5/2015	10	23	4	1	0	
6/6/2015	10	22		5	0	
6/7/2015	8	21	:	5	0	
6/8/2015	8	20		5	0	
6/9/2015	7	20		5	0	
6/10/2015	6	19		5	0	
6/11/2015	6	19	(	5	0	
6/12/2015	5	19		5	0	
6/13/2015	5	19	4	1	4	
6/14/2015	5	19		5	0	
6/15/2015	5	18		5	0	
6/16/2015	5	18		5	0	
6/17/2015	5	18	:	5	0	
6/18/2015	5	18	:	5	0	
6/19/2015	5	18	. 4	<b>‡</b>	0	
6/20/2015	5	18	4	1	1	
6/21/2015	5	18	:	5	0	
6/22/2015	5	18	. 4	1	0	
6/23/2015	5	18	:	5	0	
6/24/2015	5	18	. 4	1	0	
6/25/2015	5	18	3	3	2	
6/26/2015	5	18	:	5	0	
6/27/2015	5	17		5	0	
6/28/2015	5	17	4	1	0	
6/29/2015	5	17		1	0	
6/30/2015	5			1	0	
7/1/2015		0		)	0	

Total 129

KCC WICHITA APR 07 2016 RECEIVED W405

Homestead 42=05

North Goodland

Goodland

None

July-14

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOWN		(Maximum length 110 characters)
7/1/2014		4 1	7	3	0	
7/2/2014		5 1	3	4	0	
7/3/2014		5 1	8	4	0	
7/4/2014		5 1	8	4	0	
7/5/2014		5 1	8	3	0	
7/6/2014		5 1	8	3	0	
7/7/2014		5 1	8	4	0	
7/8/2014		5 I	8	4	0	
7/9/2014		5 1	8	4	0	
7/10/2014		4 1	7	4	0	
7/11/2014		5 1	8	3	0	
7/12/2014		5 1	8	4	0	
7/13/2014		5 1	8	3	0	
7/14/2014		5 1	8	3	0	
7/15/2014		6 1	9	2	6	
7/16/2014		6 1	9	2	0	
7/17/2014		6 1	9	2	0	
7/18/2014		7 2	0	2	0	
7/19/2014		7 2	0	2	0	
7/20/2014		7 2	0	2	0	
7/21/2014		7 2	0	2	1	
7/22/2014		7 2	0	3	0	
7/23/2014		7 2	0	2	3	
7/24/2014		7 2	0	3	0	
7/25/2014		7 2	0	3	0	
7/26/2014		6 1	9	3	0	
7/27/2014		6 1	9	4	0	
7/28/2014		7 2	0	2	9	
7/29/2014		7 2	0	3	0	
7/30/2014		6 1	9	4	0	
7/31/2014		6 1	9	4	1	

Total 95

KCC WICHITA APR 0.7 2016 RECEIVED W405 Homestead 42-05

North Goodland

Goodland

None

August-14

	Casing			HR	ľ	REMARKS
DATE	PSI	STATIC	MCF	DO	WN ]	(Maximum length 110 characters)
8/1/2014		6 1	19	4	2	
8/2/2014		6 1	19	4	0	
8/3/2014		6 1	19	4	0	
8/4/2014		6 1	19	4	0	
8/5/2014		6 1	19	4	0	
8/6/2014		6	19	4	0	
8/7/2014		6	19	4	0	
8/8/2014		6	19	4	0	
8/9/2014		6 1	19	4	0	
8/10/2014		6	19	4	0	
8/11/2014		5	18	4	0	
8/12/2014		5	18	4	0	
8/13/2014		5	18	4	0	
8/14/2014		5	18	4	0	
8/15/2014		5	18	4	0	
8/16/2014		5	18	4	0	
8/17/2014		5	18	4	0	
8/18/2014		5	18	4	0	
8/19/2014		5	18	4	0	
8/20/2014		5	18	4	0	
8/21/2014		5	18	4	0	
8/22/2014		5	18	4	0	
8/23/2014		5	18	4	0	
8/24/2014		5	18	4	0	
8/25/2014		5	18	4	0	
8/26/2014		5	18	4	0	
8/27/2014		5	18	4	0	
8/28/2014		5	18	4	0	
8/29/2014		5	18	4	0	
8/30/2014		5	18	4	0	
8/31/2014		5	18	4	0	

Total 124