KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:	: en Flo	w 1	ASI			(See Insti	ructi	ions on Re	verse Si	de)						
Open Flow Deliverability					Test Date: 9/8/11					API No. 15 181-20332-00 - • • •							
Company						3/0/11		_	Lease		_	101				Well Nu	ımber
Rosewood Resources					Section			Duell		DI	<u></u>				Acres	Attributed	
County Location Sherman NENE				17					RNG (E/W) 39W				80				
						Reservoir Niobrara				B	Gas Gathering Connection Branch Systems Inc.					·	
				1208'	Plug Back Total Depth 1208'				Pa 	Packer Set at							
4 1/2"				Internal Diameter 4.090			Set at 1213'			Perforations 976'		To 1006'					
Tubing Si: none	Ze		Weigh	'nt		Internal Diameter Set at					Perfor	ations		То			
Type Com Single (_	<u>.,</u>						Pump Unit or Traveling Plunger? Flowing			ger? Yes	7 (No)	
Producing Annulus		(Anı	nulus / Tubin	g)		% C	· · · · · · · · · · · · · · · · · · ·					· · · · · · · · · · · · · ·			Gas Gr	Gas Gravity - G	
Vertical D 1006'	epth(i-	()	1 7==-				Pressure Taps Flange								(Meter F	Run) (F	rover) Size
Pressure	Buildu	D :	Shut In 9-7		2	0 11 at 1:	:35	_	(AM) (PM)	Taken_	9-8		20	11	at_1:50		(AM) (PM)
Well on Li		•	Started 9-8				11 at 1:50 (AM) (PM) Taken 9-9										(AM)(PM)
							OBSER	IVE	D SURFAC	E DATA				Dura	tion of Shut-	_{in} 24	Hour
Static / Dynamic Property	ynamic Size Receipt Pressure in		Flowing Temperature t	Temperature Temperature		Casing Wellhead Pressure (P _w) or (P _i) or (P _c)			Tubing Wellhead Pressure (P_w) or (P_t) or (P_e)		Duration (Hours)		Liquid Produced (Barrels)				
Shut-In			pag (i m)	\forall	1120				6	20.4		psig	psia				
Flow									5	19.4				24		0	
	 1			_		 	FLOW 9	STR	EAM ATTR	RIBUTES							
Plate Coefficient (F,) (F,) Mcfd		Pro	Meter or Prover Pressure psia Press Extension Pmxh		Fac	Gravity Factor F _g		Flowing emperature Factor F ₁₁		Deviation Factor F _{pv}		Metered Flow R (Mcfd)		GOR (Cubic Fe 8arrel)		Flowing Fluid Gravity G _m	
													10				
						(OPEN FL	OW) (DE			•				-	(P _•):	² = 0.2	207
P ₀)* =		<u>.</u> :	(P _*) ² =		se formula 1 or 2:	P _d =		<u>_</u> 9	1	P _e - 14.4)		<u>4=</u>	 :		(P _d)	<u>-</u> -	
$(P_a)^2 - (P_a)^2$ $(P_a)^2 - (P_a)^2$		P _a)*- (P _a)*			LOG of tormula 1. or 2. and divide by:		2	Backpressure Curve Slope = "n"			n x LOG		Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)		
<u> </u>											į			•	,	<u></u>	
Open Flov	W	•			Mcfd @ 14.	65 psia			Deliverat	ollity				Mcfd	6 14.65 psi	а	
			d authority, o						_				e above repo ecember	rt and	d that he ha		vledge of 20 <u>11</u> .
no idvis Si	aieu l	1016	ii, and that S	aių f	oport is true	э ан и соляс	. cxecu	n Bear	uus UIO 👤		_ uay		enni	U	(gr][\	قر)
	•		Witness ((it any)			-	•		-		For	ompen	<u> </u>	~~	RECEIV
			For Comm	nisalo	n			-	-				Chec	ked by			APR 2 4

exempt statu and that the correct to the of equipmen	e under penalty of perjury under the laws of the state of Kansas that I am authorized to request as under Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc. foregoing pressure information and statements contained on this application form are true and a best of my knowledge and belief based upon available production summaries and lease records t installation and/or upon type of completion or upon use being made of the gas well herein named. request a one-year exemption from open flow testing for the Duell 1-17
	the grounds that said well:
(0	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
	agree to supply to the best of my ability any and all supporting documents deemed by Commissionssary to corroborate this claim for exemption from testing.
Date: <u>12/28</u>	<u>/11</u>
	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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KCC WICHITA

W398 Duell-1-17

North Goodland

Goodland

None

September-11

	Casing			Н	RS	REMARKS
DATE	PSI	STATIC	MCF	DO	NWC	(Maximum length 110 characters)
9/1/2011		7	20	7	0	
9/2/2011		8	21	3	12	
9/3/2011		8	21	8	0	
9/4/2011		7	20	9	0	
9/5/2011		7	20	9	0	
9/6/2011		7	20	10	0	
9/7/2011		6	19	11	0	shut in for test
9/8/2011		6	19	0	24	opened up
9/9/2011		6	19	13	0	cal
9/10/2011		5	18	10	0	
9/11/2011		5	18	11	0	
9/12/2011		5	18	10	0	
9/13/2011		5	18	10	0	
9/14/2011		5	18	10	0	
9/15/2011		5	18	10	0	
9/16/2011		4	17	10	0	
9/17/2011		4	17	10	0	
9/18/2011		4	17	10	0	
9/19/2011		5	18	9	0	
9/20/2011		5	18	9	0	•
9/21/2011		4	17	11	0	
9/22/2011		5	18	5	2	
9/23/2011		5	18	8	2.5	
9/24/2011		5	18	5	15	
9/25/2011		6	19	7	0	
9/26/2011		6	19	9	0	
9/27/2011		6	19	8	2	
9/28/2011		5	18	10	0	
9/29/2011		5	18	9	0	
9/30/2011		5	18	9	2.5	
10/1/2011		0	0	0	0	

Total 260

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W398
Duell 1-17
North Goodland
Goodland
None
October-11

	Casing			HRS	-	REMARKS
DATE	PSI	STATIC	MCF	DOWN		(Maximum length 110 characters
10/1/2011		4	17	12	0	
10/2/2011		4	17	11	0	
10/3/2011		4	17	10	0	
10/4/2011		4	17	9	0	
10/5/2011		4	17	10	0	
10/6/2011		4	17	10	0	
10/7/2011		4	17	10	0	
10/8/2011		4	17	10	0	
10/9/2011		4	17	10	0	
10/10/2011		4	17	10	0	
10/11/2011		4	17	10	0	
10/12/2011		4	17	10	0	
10/13/2011		3	16	10	0	
10/14/2011		4	17	10	0	
10/15/2011		4	17	10	0	
10/16/2011		4	17	10	0	
10/17/2011		3	16	10	0	
10/18/2011		3	16	10	0	
10/19/2011		3	16	10	0	
10/20/2011		3	16	11	0	
10/21/2011		3	16	8	2	
10/22/2011		4	17	9	0	
10/23/2011		4	17	9	0	
10/24/2011		4	17	9	0	
10/25/2011		5	18	4	2	
10/26/2011		4	17	11	0	
10/27/2011		4	17	10	0	
10/28/2011		4	17	9	0	
10/29/2011		4	17	9	0	
10/30/2011		4	17	9	0	
10/31/2011		4	17	9	0	

Total 299

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W398

Duell 1-17

North Goodland
Goodland
None
November-11

	Casing			HRS	REMARKS
DATE	PSI	STATIO	C MCF	DOWN	(Maximum length 110 characters)
11/1/2011		4	17	9	0
11/2/2011		4	17	9	0
11/3/2011		4	17	8	0
11/4/2011		4	17	10	0
11/5/2011		4	17	9	0
11/6/2011		4	17	9	0
11/7/2011		4	17	10	0
11/8/2011		4	17	9	0 bp
11/9/2011		4	17	11	0
11/10/2011		4	17	10	0
11/11/2011		4	17	9	0
11/12/2011		4	17	9	0
11/13/2011		4	17	9	0
11/14/2011		4	17	9	0
11/15/2011		4	17	9	0
· 11/16/2011		3	16	9	0
11/17/2011		4	17	8	0
11/18/2011		4	17	9	0
11/19/2011		4	17	8	0
11/20/2011		4	17	8	0
11/21/2011		4	17	9	0
11/22/2011		4	17	9	0
11/23/2011		4	17	9	0
11/24/2011		4	17	9	0
11/25/2011		4	17	9	0
11/26/2011		4	17	9	0
11/27/2011		4	17	9	0
11/28/2011		4	17	9	0
11/29/2011		4	17	9	0
11/30/2011		4	17	8	0
12/1/2011		0	0	0	0

Total 270

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