KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:				(See Instruc	tions on Re	everse Side)						
,	en Flow		151		Test Date	э :			API	No. 15					
De	liverabil	ty 			8/15/20	12			023	3-20665-00 0	0				
Company Rosewo		ourc	es, Inc.				Lease Northru	ıp			4	w 43-33	/eli Numb	er	
County Location Cheyenne NESE					Section 33				RNG (E 42W	/W)		Acres Attributed 80			
Field	···				Reservoi	r			Gas Ga	thering Conne	ection	-		-KEC	
Cherry C					Niobrar	a			Branch Systems Inc.					-I-A-A-a-	
Completion 4-1-2006					Plug Bac 1766'	k Total Dep	th	Packer \$	Set at				JAN (CC W		
Casing S 4 1/2"	ize		Weigh 10.5#		Internal (4.052	Diameter		Set at Perforations 1767.06' 1616'				Го 642'	K	CC M	
Tubing S	ize		Weigh		Internal [Diameter	Set	at	Perfo	rations	Т	Го			
Type Con Single (Type Flui Dry Ga	d Productio	n			nit or Traveling	Plunger?	Yes /	No		
			lus / Tubing)		Carbon Diox	ide		% Nitrog			as Gra	vity - G _g		
Annulus												6	-		
Vertical E 1642'	epth(H)					Pres Flan	sure Taps ge				•	Meter Ri 2"	un) (Prov	er) Size	
Pressure	Buildup	: Si	nut in 8-14	1 2	0 12 at 1	1:45	(AM)(PM)	Taken_8-	15	20	12 at 1	1:55	(AN))(PM)	
Well on L	ine:	St	arted 8-15	52	o 12 at 1	1:55	(AM)(PM)	Taken 8-	16	20	12 at 1:	:45	(AN	i) (PM)	
						OBSERVE	D SURFAC	E DATA			Duration of	f Shut-ir	24	Hours	
Static / Dynamic	Dynamic Size		Circle one: Meter Prover Pressu	Pressure Differential re in	Differential Flowing Well He		Wellhead	sing I Pressure	Wellhe	Tubing ead Pressure r (P,) or (P _c)			Liquid P	Liquid Produced (Barrels)	
Property Shut-In	(inche	5)	psig (Pm)	Inches H ₂ 0	t	t	psig 96	psia 110.4	psig	psia	,				
Flow							27	41.4			24				
					1	FLOW STF	REAM ATT								
Plate Coefficeient (F _b) (F _p) Mcfd		M Prove	Circle one: Meter or Press Extension prover Pressure psia Pmxh		Fac	Gravity Factor F		powing Deviation perature Factor F _{pv}		Metered Flow R (Mcfd)	(C	GOR ubic Feet Barrel)	.,	Flowing Fluid Gravity G _m	
										19					
					(OPEN FL	OW) (DELIV	ERABILITY) CALCUL	ATIONS			(P.)2:	= 0.207		
(P _c) ² =		:	(P _w) ² =_	:	P _d =		% (P _c - 14.4) +	14.4 =	:		(P _d) ² :		*****	
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _c) ² - (P _w) ²		1. P _c ² - P _a ² LOG of formula 2. P _c ² - P _d ² 1. or 2. and divide by: P _c ² - P _d ² by:		P.2. P.2	Sic	essure Curve pe = "n" - or ssigned lard Slope	n x LOG		Antilog		Open Flow Deliverability Equals R x Antilog (Mcfd)		
				, c w				, r -							
Open Flor				Mcfd @ 14.	GE noin		Daliman	- 1414				05			
					<u> </u>		Deliveral				Mcfd @ 14.	<u> </u>		 -	
				behalf of the						ecember	rt and that	he has	knowled , 20 	ge of	
			Witness (if	any)	<u></u>		•		jæ	For C	ompany		- 0		
			For Commi	ssion			-			Chec	ked by				

√ 1) 3 2013 [™]

KCC WICHITA

	MOO VAICHTIA
	der the laws of the state of Kansas that I am authorized to request on behalf of the operator Rosewood Resources, Inc.
	ion and statements contained on this application form are true and
orrect to the best of my knowledge and b	relief based upon available production summaries and lease records
	of completion or upon use being made of the gas well herein named. n from open flow testing for the Northrup 43-33
as well on the grounds that said well:	
(Check one)	
is a coalbed methane p	producer
is cycled on plunger life	
	gas for injection into an oil reservoir undergoing ER
	esent time; KCC approval Docket No
	ucing at a daily rate in excess of 250 mcf/D
I further agree to supply to the best of staff as necessary to corroborate this clai	f my ability any and all supporting documents deemed by Commissio im for exemption from testing.
Date: 12/19/12	
	Signature: January Gull
	Title: Production Assistant

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.

W2059

Northrup 43-33

West St. Francis

St. Francis

None

August-12

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	Tubing	Casing					HRS	Water	REMARKS
DATE	PSI	PSI	STATIC	MCF	SPM				(Maximum length 110 characters
8/1/2012		28	41	2				17	1
8/2/2012		28	41	4	6	12		16	
8/3/2012		28	41	3	6	24		34	
8/4/2012		51	64	15	6	24		33	
8/5/2012		57	70	12	6	24		32	
8/6/2012		46	59	18	6	24		33	
8/7/2012		32	45	19	6	12		16	put back on auto mcf up
8/8/2012		32	45	19	6	12		17	bucket test 5 min
8/9/2012		30	43	18	6	12		16	
8/10/2012		30	43	18	6	12		15	
8/11/2012		64	77	13	6	12	1.5	16	
8/12/2012		36	49	17	6	12		17	
8/13/2012		29	42	17	6	12		15	
8/14/2012		23	38	17	6	6		8	shut well in for state test psi 23
8/15/2012		96	43	0	6	0	24		open well psi 96
8/16/2012		27	40	22	6	6		8	started pumping unit
8/17/2012		31	44	19	6	12		16	
8/18/2012		30	43	19	6	12		17	
8/19/2012		30	43	19	6	12		15	
8/20/2012		30	43	19	6	12		16	
8/21/2012		30	43	19	6	12		17	
8/22/2012		31	44	19	6	12		18	
8/23/2012		31	44	19	6	12		17	
8/24/2012		27	40	19	6	12		17	bucket test 5 min
8/25/2012		27	40	19	6	12		16	
8/26/2012		31	44	19	6	12		15	
8/27/2012		31	44	19	6	12		16	
8/28/2012		36	49	19	6	12		17	
8/29/2012		31	44	19	6	12		18	
8/30/2012		31	44	19	6	12		17	bucket test 5 min
8/31/2012		33	46	19	6	12		17	

W2059 Northrup 43-33 West St. Francis St. Francis None September-12

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KCC WICHITA

	Casing					HRS	Water	REMARKS
DATE	PSI	STATIC	MCF	SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters)
9/1/2012	32	45	19	(5 12		16	
9/2/2012	32	45	19	(5 12		15	
9/3/2012	32	45	19	(5 12		16	
9/4/2012	32	45	19	(5 12		17	
9/5/2012	67	80	11	(5 12	1	16	
9/6/2012	32	. 45	11	(5 12		15	shut pumping unit off hfp
9/7/2012	97	110	2	(5 0	19	0	
9/8/2012	100	113	0	•	5 0	24	0	
9/9/2012	103	116	C	•	5 0	24	0	
9/10/2012	104	117	C	•	5 0	24	0	
9/11/2012	105		0	•	5 0	24	0	
9/12/2012	107	120	0	•	5 0	24	0	
9/13/2012	110	123	0	•	5 0	10	0	
9/14/2012	98	111	C	•	5 0		0	
9/15/2012	91	104	10	•	5 0		0	
9/16/2012	86	99	15	(5 0		0	
9/17/2012	77	90	18	(5 0		0	
9/18/2012	33	46	20	•	5 6	•		started pumping unit
9/19/2012	83	96	13	(5 3		6	shut pumping unit off hfp
9/20/2012	26	39	15	(5 6		8	started pumping unit
9/21/2012	31	44	15	(5 12		16	
9/22/2012	31	44	15	(5 12		17	
9/23/2012	31	44	16	. (5 12		18	
9/24/2012	31	44	15	(5 12		17	
9/25/2012	32		15		5 12		17	bucket test 5 min
9/26/2012	32		15		5 12		16	
9/27/2012	33		15				17	
9/28/2012	32		15				15	
9/29/2012	33	46	15	(5 12		13	_
9/30/2012	32	45	16	. (5 12		17	(
10/1/2012								

W2059

Northrup 43-33

West St. Francis

St. Francis

None

Total

October-12

RECEIVED

JAN 0 3 2013

KCC WICHITA

	Casing					HRS	Water	REMARKS
DATE	PSI	STATIC	MCF	SPM	CYCLE	DOWN	BBLS	(Maximum length 110 characters
10/1/2012	32	45	16	6	12		17	
10/2/2012	31	44	16	6	12		16	
10/3/2012	30	43	17	6	12		15	
10/4/2012	29	42	17	6	12		16	
10/5/2012	31	44	16	6	12		17	
10/6/2012	30	43	16	6	12		16	
10/7/2012	30	43	16	6	12		15	
10/8/2012	31	44	16	6	12		16	
10/9/2012	30	43	16	6	12		17	bucket test 5 min
10/10/2012	32	45	16	6	12		16	
10/11/2012	31	44	16	6	12		15	
10/12/2012	31	44	17	6	12		17	
10/13/2012	31	44	17	6	12		19	
10/14/2012	31	44	17	6	12		16	
10/15/2012	31	44	17	6	12		17	
10/16/2012	45	58	17	6	12		16	
10/17/2012	31	44	17	6	12		17	
10/18/2012	31	44	17	6	12		16	
10/19/2012	30	43	17	6	12		17	bucket test 5 min and treated well
10/20/2012	46	59	16	6	12		16	
10/21/2012	32	45	16	6	12		15	
10/22/2012	32	45	16	6	6		9	shut pumping unit off
10/23/2012	29	42	16	6	0		0	
10/24/2012	27	40	14	6	6		8	•
10/25/2012	30	43	15	6	12		17	
10/26/2012	29	42	15	6	12		16	
10/27/2012	29	42	19	6	12		18	
10/28/2012	30	43	16	6	12		17	
10/29/2012	77	90	16	6	6	2	9	pu off hfp
10/30/2012	69	82	12	6	0		0	
10/31/2012	42	55	16	6	6		10	shut pumping unit off

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