KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test			-4 CT		•	(See Instruc	tions on R	everse Side	9)	-		
`	en Flo eliverab		BSL		Test Date 9/26/20					No. 15 1-20415-00	-00	
Company		sou	rces, Inc.	***************************************	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Lease Duell		••••••••••	•	14-21	Well Number
County Sherman	n	•	Locati SWSW		Section 21		TWP 7S		RNG (E 39W	(W)		Acres Attributed 80
Field Goodlan	ıd		·		Reservoi Niobrara					hering Conn Systems In		
Completion 6/3/200		е			Plug Bac 1186'	k Total Dep	th		Packer S	Set at		
Casing Size Weight 4 3/4" 10.5#				Internal (4.000	Diameter	Set at 1186'		Perforations 1010'		то 1040'		
Tubing Si	ize		Weigh		Internal [Diameter	Set	at	Perfo	rations	То	
Type Con Single (Type Flui Dry Ga	d Productio	n		Pump Ui flowing	nit or Traveling	Plunger? Yes	(NO)
Annulus	3		nulus / Tubing)	% C	Carbon Diox	ide		% Nitrog	en	Gas Gr	avity - G _g
Vertical D 1220'	epth(H	l)				Pres Flan	sure Taps ge				(Meter F 2"	Run) (Prover) Size
Pressure	Buildu		Shut in 9-26		07 at 9	:35	(AM) (PM)	Taken 9-			07 _{at} 9:35	(AM) (PM)
Well on L	ine:		Started 9-27	2	07 at 9	:35	(AM) (PM)	Taken 9-	28	20	07 at 11:15	(AM)(PM)
					,	OBSERVE	D SURFAC	E DATA			Duration of Shut-	in 24 Hours
Static / Dynamic Property	Orific Size (inche	В	Circle one: Meter Prover Pressu psig (Pm)	Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well Head Temperature t	Wellhead	sing I Pressure P ₁) or (P _c) psia	Wellhe	Tubing ad Pressure (P ₁) or (P _c) psia	Duration (Hours)	Liquid Produced (Barrels)
Shut-In							49	63.4	,,,,			
Flow					-		49	63.4				
	—-т		Circle one:			FLOW STR		RIBUTES				
Plate Coeffieci (F _b) (F _p Mcfd	ent)		Meter or ver Pressure psia	Press Extension P _m x h	Grav Fact F _g	tor	Flowing Temperature Factor F ₁₁	Fac	ation ctor pv	Metered Flov R (Mcfd)	GOR (Cubic Fee Barrel)	Flowing Fluid Gravity G _m
										20		
(P _c) ² =			(P _w) ² =_		•	OW) (DELIV		•				= 0.207
(P _c) ² - (P	·	(P	_c) ² - (P _w) ²	hoose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ wided by: $P_c^2 - P_w^2$	P _d = LOG of formula 1. or 2. and divide by:	P _c ² -P _w ²	Backpre Slo	P _c - 14.4) + pssure Curve pe = "n" - or ssigned lard Slope	n x l	.og [(P _d)² Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)

Open Flov	v			Mcfd @ 14.0	35 psia		Deliverat	oility			Mcfd @ 14.65 psia	a
			n, and that sai	d report is true	and correct	t. Executed ಟ್ಟ್	this the _2	9(e above repo ovember	rt and that he has	s knowledge of
			Witness (if	any)	KAN	SAS CORPO		_		For C	ompany	
			For Commis	sion		JAN	15 200	8		Chec	ked by	

exempts and that correct to of equipr	clare under penalty of perjury under the laws of the state of Kansas that I am authorized to request status under Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc. the foregoing pressure information and statements contained on this application form are true and the best of my knowledge and belief based upon available production summaries and lease records ment installation and/or upon type of completion or upon use being made of the gas well herein named. The eby request a one-year exemption from open flow testing for the Duell 14-21
	on the grounds that said well:
taff as n	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 ther agree to supply to the best of my ability any and all supporting documents deemed by Commission eccessary to corroborate this claim for exemption from testing.
	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 pust be signed and dated on the front side as though it was a verified report of annual test results. KANSAS CORPORATION COMMISSION

W2186
Duell 14-21
North Goodland
Goodland
None
September-07

	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters)
9/1/2007	49	62	. 2	21 ()
9/2/2007	49	62	. 2	.1 ()
9/3/2007	49	62	. 2	:1 ()
9/4/2007	49	62	. 2	:1 (
9/5/2007	49	62	2	1 ()
9/6/2007	49	62	2	1 0)
9/7/2007	49	62	2	1 0)
9/8/2007	49	62	2	1 0)
9/9/2007	49	62	2	1 0)
9/10/2007	49	62	2	1 0)
9/11/2007	49	62	2	1 2	!
9/12/2007	49	62	2	1 4.5	;
9/13/2007	49	62	2	1 0	•
9/14/2007	49	62	2	1 0	
9/15/2007	49	62	2	1 0	
9/16/2007	49	62	2	1 3	
9/17/2007	49	62	2	1 0	·
9/18/2007	49	62	2	1 0	
9/19/2007	49	62	2	1 0	ı
9/20/2007	49	62	2	1 0	
9/21/2007	49	. 62	2	1 0	
9/22/2007	49	62	2	1 0	
9/23/2007	49	62	2	1 0	
9/24/2007	49	62	2	1 0	
9/25/2007	49	62	2	1 0	
9/26/2007	49	62	2	1 0	si 9:35am cp49
9/27/2007	52	65		1 0	open 9:35am cp52
9/28/2007	50	63	1		-
9/29/2007	49	62	2	0 . 0	
9/30/2007	49	62	2	0 0	
10/1/2007				0	

Total

606

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W2186
Duell 14-21
North Goodland
Goodland
None
October-07

	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters)
10/1/2007	49	62	21	0	
10/2/2007	49	62	21	0	
10/3/2007	49	62	21	0	
10/4/2007	49	62	21	0	
10/5/2007	49	62	21	0	
10/6/2007	49	62	21	0	
10/7/2007	49	62	21	0	
10/8/2007	49	62	21	0	
10/9/2007	49	62	21	0	
10/10/2007	49	62	21	0	
10/11/2007	49	62	. 21	0	
10/12/2007	49	62	21	0	
10/13/2007	49	62	21	0	
10/14/2007	49	62	21	0	
10/15/2007	49	62	21	0	
10/16/2007	49	62	20	0	
10/17/2007	49	62	20	0	
10/18/2007	49	62	20	0	
10/19/2007	49	62	20	0	
10/20/2007	49	62	20	0	
10/21/2007	49	62	20	0	
10/22/2007	49	62	20	0	
10/23/2007	49	62	20	0	
10/24/2007	49	62	20	0	
10/25/2007	49	62	20	0	
10/26/2007	49	62	20	0	
10/27/2007	49	62	20	0	
10/28/2007	49	62	20	0	
10/29/2007	49	62	20	0	
10/30/2007	48	61	24	0	
10/31/2007	48	61	26	0	

Total 645

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W2186
Duell 14-21
North Goodland
Goodland
None
November-07

	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters)
11/1/2007	48	61	. 2	25	0 opened to 26 mcf
11/2/2007	48	61	. 2	25	0 bp
11/3/2007	48	61	. 2	25	0
11/4/2007	48	61	. 2	25	0
11/5/2007	48	61	2	25	0
11/6/2007	48	61	2	25	0
11/7/2007	48	61	2	25	0
11/8/2007	47	60) 2	20	6
11/9/2007	47	61	2	20	3
11/10/2007	47	60) 2	25	0
11/11/2007	47	60	2	25	0
11/12/2007	47	60	2	25	0 bp
11/13/2007	47	60	2	25	0
11/14/2007	47	60	2	.5	1
11/15/2007	47	60	2	6	3 bp
11/16/2007	47	60	2	5 1:	2
11/17/2007	49	62	1	3	7
11/18/2007	47	60	2	3	0
11/19/2007	47	60	2	5 . (0 bp
11/20/2007	47	60	2	.5	0
11/21/2007	47	60	2	.5	0
11/22/2007	46	59	2	5 2	2
11/23/2007	46	59	2	5 2	2
11/24/2007	46	59	2	5 (0
11/25/2007	46	59	2	5 (0
11/26/2007	49	62	2	5 2	2
11/27/2007	46	59	2	5 (0
11/28/2007	46	59	2	5 (0
11/29/2007	46	59	2	5 (0 .
11/30/2007	46	59	. 2	4 3	3 bp froze
12/1/2007				(0

Total 726

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