KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:				t	See Instruc	tions on Re	everse Side)				
□ O _F	en Flo	w 🏃	AST		Test Date				4.01	No. 15			
	liverab				10/1/14	3 ;				-20488-01 0	O		
Company		sou	rces, Inc.				Lease Crouch	 1			21-02	Well N	umber
County Location Sherman NENW			Section TWP 2 7S			"	RNG (E/W) 39W			Acres Attributed 80			
Field Goodland			Reservoir Niobrara					hering Conn Systems In					
Completion Date 2/28/2007			Plug Bac 2846'	k Total Dept	th	Packer Set at				- "			
Casing Size Weight 4 1/2" 11.6			Internal [4.000		Set at Perfo 2846' 277		rations 9'	то 2794'					
Tubing S NONE	ize 		Weight		Internal Diameter Set at				Perfo	То	To		
Type Cor Single (Type Flui Dry Ga	d Production	n		Pump Ur Flowin	it or Traveling G	Plunger? Yes	(No))
Producing Annulus		(Ani	nulus / Tubing)		% C	arbon Dioxi	ide		% Nitrog	en	Gas Gra .6	avity -	G _a
Vertical D 2859'	epth(F	1)				Pres Flan	sure Taps ge				(Meter F 2"	Run) (F	rover) Size
Pressure	Buildu	p:	Shut in 9-30	2	0 14 at 8	:10	(AM)(PM)	Taken_10)-1	20	14 _{at} 8:25		(AM)(PM)
Well on L	.ine:		Started 10-1	2	0 14 at 8	:25	(AM)(PM)	Taken 10)-2	20	14 at 9:10		(AM)(PM)
						OBSERVE	D SURFAC	E DATA			Duration of Shut-	_{in} _24	Hours
Static / Dynamic Property	Static / Orifice Meter Differenti lynamic Size Prover Pressure In		Pressure Differential in Inches H ₂ 0	temperature Temperature		Wellhead (P _w) or ((P _w) or (P _t) or (P _c) (P _w		ubing ad Pressure (P _t) or (P _c)	·		id Produced (Barrels)	
Shut-In			p-13 (y				psig 14	28.4	psig	psia			
Flow							5	19.4	<u></u>		24	0	
_	- 1	_		-	-	FLOW STR		RIBUTES_					T
Plate Coeffied (F _b) (F Mcfd	ient	Pro	Meter or ever Pressure psia	Press Extension P _m x h	Grav Fac F _c	tor	Flowing Temperature Factor F _{rt}	Fa	ation ctor pv	Metered Flov R (Mcfd)	y GOR (Cubic Fer Barrel)	et/	Flowing Fluid Gravity G _m
										9			
			<u> </u>		(OPEN FL	OW) (DELIV		•		<u>_</u> _		= 0.2	207
(P _c) ² =	_	<u>-</u> :	(P _w) ² =_	hoose formula 1 or 2	P _a =	 `	% (P _c - 14.4) +	<u> 14.4 =</u>	:_	(P _d) ²	' = -	==
(P _c) ² - (I or (P _c) ² - (I	P _a) ²	(F	P _e) ² - (P _w) ²	 P_c²-P_a² P_c²-P_d² 	LOG of formula 1, or 2, and divide	P _c ² -P _w	Ślo	essure Curve ope = "n" or ssigned dard Slope	nxl	_og []	Antilog	De	pen Flow liverability s R x Antilog (Mcfd)
	-		di	vided by: $P_c^2 - P_w$	by:	<u> </u>	Sidil	cara oropo	 -				
Open Flo	w			Mcfd @ 14.	65 psia		Delivera	bility			Mcfd @ 14.65 psi	a	
		-	d authority, on			t. Executed	this the _1	16	day of D	ecember	rt and that he ha	s knov	vledge of 20 14
						KCC	MiCi		an	ull_	Mait	Tul	<i>y</i>
			Witness (if a	··		<u>FE</u> B	23 20	<u>15</u>		For C	cked by		<i></i>

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exempt status und and that the fore correct to the best of equipment inst	der Rule K.A.R. 82-3-304 on behalf of the compoing pressure information and statement of my knowledge and belief based upon	nts contained on this application form are true and available production summaries and lease records upon use being made of the gas well herein named.
J	is a coalbed methane producer is cycled on plunger lift due to water is a source of natural gas for injection ir is on vacuum at the present time; KCC a is not capable of producing at a daily ra	approval Docket No ate in excess of 250 mcf/D and all supporting documents deemed by Commission
Date: 12/16/14		
	KCC WICHITA FEB 2 3 2015 Signature: RECEIVED Title: Pro	January Martinez

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.

W2420 Crouch 21-02H North Goodland Goodland None September-14

	Casing			H	RS	REMARKS
DATE	PSI	STATIC	MCF	D	NWC	(Maximum length 110 characters)
9/1/2014		4	17	8	0	
9/2/2014		4	17	8	0	
9/3/2014		4	17	8	0	
9/4/2014		4	17	8	0	
9/5/2014		4	17	8	0	
9/6/2014		4	17	8	0	
9/7/2014		4	17	8	0	
9/8/2014		4	17	8	0	
9/9/2014		4	17	8	0	
9/10/2014		5	18	8	0	
9/11/2014		5	18	8	0	
9/12/2014		5	18	8	0	
9/13/2014		5	18	8	0	
9/14/2014		5	18	8	0	
9/15/2014		5	18	8	0.5	
9/16/2014		5	18	8	0	
9/17/2014		5	18	8	0	
9/18/2014		5	18	8	0.5	
9/19/2014		5	18	8	0	
9/20/2014		5	18	8	0	
9/21/2014		5	18	8	0	
9/22/2014		5	18	8	0	
9/23/2014		5	18	8	0	
9/24/2014		5	18	8	0	
9/25/2014		5	18	8	0	
9/26/2014		5	18	8	0	
9/27/2014		5	18	8	0	
9/28/2014		5	18	8	0	
9/29/2014		5	18	8	0	
9/30/2014		5	18	8	0	shut in for state
10/1/2014		0	0	0	24	opened up

Total 240

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W2420 Crouch 21-02H North Goodland Goodland None October-14

	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF_	DOWN	(Maximum length 110 characters)
10/1/2014	14				opened up
10/2/2014	6				
10/3/2014	5	18	8	0	•
10/4/2014	5	18	8	0	
10/5/2014	5		8	0	1
10/6/2014	5	18	8	0	
10/7/2014	5	18	8	0	
10/8/2014	4	17	10	0	
10/9/2014	5	18	8	0	
10/10/2014	5	18	8	0	1
10/11/2014	5	18	8	1	
10/12/2014	5	18	8	0	1
10/13/2014	5	18	8	0	1
10/14/2014	5	18	9	0	
10/15/2014	5	18	.9	0	1
10/16/2014	5	18	9	1	
10/17/2014	5	18	9	0)
10/18/2014	5	18	9	0)
10/19/2014	5	18	9	0	1
10/20/2014	5	18	9	0	1
10/21/2014	5	18	9	0)
10/22/2014	5	18	9	0	
10/23/2014	5	18	9	0	1
10/24/2014	5	18	9	0	l
10/25/2014	5	18	9	0	KCC MICH.
10/26/2014	5	18	9	0	
10/27/2014	5	18	9	0	reb 23 2015
10/28/2014	5	18	9	0	RECE.
10/29/2014	5	18	9	0	KCC WICHI FEB 2 3 2015 RECEIVED
10/30/2014	5	18	9	0	1
10/31/2014	5	18	9	0)

Total

W2420 Crouch 21-02H North Goodland Goodland None November-14

	Casing			HRS		REMARKS
DATE	PSI	STATIC	MCF	DOWN		(Maximum length 110 characters)
11/1/2014		5	18	9	0	
11/2/2014		5	18	9	0	
11/3/2014		5	18	9	0	
11/4/2014		5	18	9	0	
11/5/2014		5	18	9	0	
11/6/2014		5	18	9	0	
11/7/2014		5	18	9	0	
11/8/2014		5	18	9	0	
11/9/2014		5	18	9	0	
11/10/2014		5	18	9	0	
11/11/2014		5	18	9	0	
11/12/2014		5	18	9	0	
11/13/2014		4	17	8	0	
11/14/2014		4	17	8	0	
11/15/2014		4	17	8	0	
11/16/2014		4	17	7	0	
11/17/2014		4	17	7	0	
11/18/2014		4	17	7	0	
11/19/2014		4	17	9	0	
11/20/2014		4	17	9	0	
11/21/2014		4	17	9	0	
11/22/2014		4	17	9	0	
11/23/2014		4	17	9	0	
11/24/2014		4	17	9	0	
11/25/2014		4	17	8	1.5	
11/26/2014		4	17	9	0	
11/27/2014		4	17	9	0	
11/28/2014		4	17	9	0	
11/29/2014		4	17	9	0	
11/30/2014		4	17	9	0	
12/1/2014					0	

Total

260

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