KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test			-		0	See Instruc	tions on Re	verse Side	9)					
Oр	en Flo	w]	XZT		Test Date				API	No. 15				
De	liverab	ilty			6/22/14	·•				-21265-00	0			
Company		sou	rces, Inc.				Lease Zweyga	ardt			;	33-19	Well Nun	nber
County Cheyenr	ne		Location NWSE	on	Section 19			TWP RNG (E/W) 3S 40W			Acres Attributed 80			
Field Cherry C	reek				Reservoir Niobrara					hering Conn Systems In				
Completic 9/28/201		е			Plug Baci 1507'	k Total Dept	th		Packer S	et at				
Casing Size Weight 4 1/2" 10.5#			Internal Diameter 6.366					erforations 322'		_{То} 1352'				
Tubing Si	ze		Weight	l	Internal Diameter Set at				Perforations			То		
Type Con Single (Type Fluid	d Production	n		Pump Un	it or Traveling	Plunger?	Yes	(No)	
`			nulus / Tubing)	% C	arbon Dioxi	ide		% Nitrog	en		Gas Gra	avity - G	
Annulus	-											.6		
Vertical D 1560'	epth(H	l)				Pres Flan	sure Taps ge					Meter F 2"	Run) (Pro	over) Size
Pressure	Buildu		Shut in <u>6-7</u>		0 14 at 6	:00	(AM)(PM)	Taken_6-	·14		14 at 6		(A	M(PM)
Well on L	ine:		Started 6-22	22	0 14 at 6	:15	(AM) (PM)) Такел <u>6-</u>	23	20	14 at 6	:40	(A	M)(PM)
						OBSERVE	D SURFAC	E DATA		,	Duration o	of Shut-i	_{in_} 360	Hours
Static / Dynamic Property	Dynamic Size		Circle one: Meter Prover Pressu psig (Pm)	Meter Differential er Pressure in		Flowing Well Head Temperature t t		Casing Weilhead Pressure (P _w) or (P ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)		Produced arrels)
Shut-In			paig (riii)	Inches H ₂ 0		_	230	244.4	psig	psia		_		
Flow							62	76.4			360			
						FLOW STR	REAM ATTE	RIBUTES						
Plate Coeffiecient (F _b) (F _p) Mcfd		Prover Pressure		Press Extension ✓ P _m x h	Gravity Factor F _g		Flowing Temperature Factor F ₁₁	erature Factor		Metered Flov R (Mcfd)		GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G _m
										49				
					(OPEN FL	OW) (DELIV	ERABILITY	/) CALCUL	ATIONS			(P.)	= 0.20	7
(P _c) ² =		_:	(P _w) ² =	:	$P_d =$		% (P _c - 14.4) +	14.4 =	:		(P _d)		<u> </u>
(P _c) ² - (F	구 _a) ² 구 _d) ²	(F	P _o)²- (P _w)²	Choose formula 1 or 2 1. $P_c^2 - P_u^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$	LOG of formula 1, or 2, and divide	P _c ² - P _w ²	Slo As	essure Curve ope = "n" or ssigned dard Slope	l n x i	LOG	Antilo	og	Deliv Equals	en Flow erability R x Antilog Mcfd)
								·						
Open Flor	w			Mcfd @ 14.	65 psia		Delivera	bility		_	Mcfd @ 14	4.65 psi	<u>a</u>	
		-	-	behalf of the							ort and tha	t he ha		
the facts s	tated t	here	in, and that sa	aid report is true			_				11/2	JS	,2	0
			Witness (ii	any)	KAI	Red NSAS CORPOR	RATION COMM	1195TON	an	$\mathcal{U} \mathcal{U} \mathcal{U}$	Company	llu	'Y	
							2 5 2018	-			akad bu			·
			For Comm	ission						Che	cked by			

I declare under penalty of perjury under the laws of the state exempt status under Rule K.A.R. 82-3-304 on behalf of the operator	
and that the foregoing pressure information and statements contactorrect to the best of my knowledge and belief based upon available of equipment installation and/or upon type of completion or upon used hereby request a one-year exemption from open flow testing for gas well on the grounds that said well:	ined on this application form are true and e production summaries and lease records being made of the gas well herein named.
is a coalbed methane producer is cycled on plunger lift due to water is a source of natural gas for injection into an oil is on vacuum at the present time; KCC approval is not capable of producing at a daily rate in exc	Docket No ress of 250 mcf/D pporting documents deemed by Commission
Received KANSAS CORPORATION COMMISSION FEB 2 5 2015 CONSERVATION DIVISION WICHITA, KS Received Signature: Production A	Martiney 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.

W2749

Zweygardt 33-19

St. Francis

St. Francis

Flow

June-114

FloBoss

	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters)
6/1/20134	58		52		
6/2/2013	62				
6/3/2018	57		52	0	
6/4/2013	72				
6/5/201	54				
6/6/2013	55				
6/7/201	175		42	9	
6/8/2013	188		0		
6/9/2013	201	214		24	
6/10/201	213			24	
6/11/2013	222				
6/12/2013	227				
6/13/2013	228		0		
6/14/2013	230		0	24	
6/15/2013	229	242	0	24	
6/16/2013	230	243	0	24	
6/17/2013	231	244	0	24	
6/18/2013	230		0	24	
6/19/2013	226		0	24	
6/20/2013	220		0	24	
6/21/2013	206		0	24	
6/22/2013	206	219	0	24	
6/23/2013	121	134		5	
6/24/2013	112			0	
6/25/2013	106			0	
6/26/2013	96			0	
6/27/2013	88		62	0	
6/28/2013	59			0	
6/29/2013	58		59	0	
6/30/2013	59	72	57	0	
7/1/2013				0	

Total 907

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FEB 2 5 2015

W2749

Zweygardt 33-19

St. Francis

St. Francis

Flow

July-14

FloBoss

	Casing	-		HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters)
7/1/2014	59			0	_
7/2/2014	59			0	
7/3/2014	59	72	56	0	
7/4/2014	59	72	56	0	
7/5/2014	60			0	
7/6/2014	61	74	56	0	
7/7/2014	70	83	53	0	
7/8/2014	61	74	53	0	
7/9/2014	62			0	
7/10/2014	63			0	
7/11/2014	66			0	
· 7/12/2014	65			0	
7/13/2014	65	78	52	0	
7/14/2014	89	102	51	0	
7/15/2014	57	70	52	0	
7/16/2014	59	72	51	0	
7/17/2014	59	72	51	0	
7/18/2014	60	73	51	0	
7/19/2014	56	69	37	0	
7/20/2014	57	70	31	0	
7/21/2014	135	148	30	0	
7/22/2014	141	154	21	22	
7/23/2014	83	96	44	7	
7/24/2014	65	78	31	3	
7/25/2014	56	69	36	4	
7/26/2014	55		30	0	
7/27/2014	56	69	28	0	
7/28/2014	56			0	
7/29/2014	56	69	26	0	
7/30/2014	57	70	31	0	
7/31/2014	59	72	33	0	

Total 1368

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FEB 2 5 2015

CONSERVATION DIVISION WICHITA, KS

W2749

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Zweygardt 33-19

St. Francis

St. Francis

Flow

August-14

FloBoss

	Casing			HRS	REMARKS
DATE	PSI	STATIC	MCF	DOWN	(Maximum length 110 characters)
8/1/2014	57	70	34	0	
8/2/2014	58	71	34	0	
8/3/2014	59	72	35	0	
8/4/2014	59	72	36	0	
8/5/2014	58	71	38	0	
8/6/2014	58	71	41	0	
8/7/2014	60	73	44	0	
8/8/2014	60		47	0	
8/9/2014	62		49	0	
8/10/2014	62			0	
8/11/2014	69				
8/12/2014	57				
8/13/2014	58	71	49	0	
8/14/2014	57	70	45	0	
8/15/2014	63	76	46	3	
8/16/2014	61	74	45	0	
8/17/2014	62	75	45	0	
8/18/2014	62	75	45	0	
8/19/2014	69	82	48	2	
8/20/2014	60	73	48	0	
8/21/2014	60	73	49	0	
8/22/2014	63		46	0	
8/23/2014	56	69	46	0	
8/24/2014	57	70	46	0	
8/25/2014	73	86	43	0	
8/26/2014	59	72	42	0	
8/27/2014	70	83	46	0	
8/28/2014	115	128	46	0	
8/29/2014	56	69	16	5	
8/30/2014	55	68	48	0	
8/31/2014	68	81	48	0	

Total 1352

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FEB 2 5 2015