Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test	t:		ONL		ONVI OI			ctions on Re			CUADILI	1 16	.SI			
Open Flow Deliverability						Test Date: 10/14/2015				API No. 15 175-21992 - 0000						
Company MIDWE		RN	EXPLOR <i>A</i>	ATIO	ON COMP			Lease D. BRO	OWN				1-19	Well Nu	mber	
County Location SEWARD 990 FNL & 660 FEL					Section 19		TWP 34S			RNG (E/W) 33W			Acres A	ttributed		
Field					Reservoir CHEST				Gas Gathering Connection DCP MIDSTREAM							
Completion Date					Plug Back Total Depth 6474				Packer Set at NONE							
Casing Size Weight					Internal D	Diameter		Set at 6515		rations		To 6238				
	Tubing Size Weight					Internal C	Diameter	Set 617	at		6196 Perforations			-		
Type Con SINGLE			escribe)			Type Fluid Production WATER/OIL				Pump Unit or Traveling Plunger? Yes / No						
	Thru		nulus / Tubin	g)		% Carbon Dioxide				% Nitrogen Gas Gravity - G						
Vertical D		l)					Pre	ssure Taps			Leve .		(Meter	Run) (Pi	over) Size	
6675 Pressure	Ruilde	n'	Shut in 10/	14	20	15 ,		_ (AM) (PM)	Taken 10	0/15	20	15.			AM/ /DM/	
Well on L			Started 10/	15				_ (AM) (PM) _ (AM) (PM)			20					
							OBSERV	ED SURFAC	E DATA			Duratio	on of Shut	-in	· Hours	
Static / Dynamic Property	amic Size		Circle one: Meter Prover Pressure psig (Pm)		Pressure Differential In Inches H ₂ 0	Flowing Well Head Temperature t t		Wellhead Pressure (P _w) or (P _t) or (P _c)		Tubing Welihead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)		Liquid Produced (Barrels)		
Shut-In			poig (r my		menos ri ₂ o			110	psla	110	psig psia 110					
Flow								31		31		24				
				1			FLOW ST	REAM ATTE	RIBUTES							
Plate Coefficcient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension P _m x h		Gravity Factor F _g		Temperature F		viation actor F _{pv}	Metered Flor R (Mcfd)	W	GOR (Cubic Feet/ Barrel)		Flowing Fluid Gravity G _m	
										-	10					
/D \2			/D \2			•	OW) (DELI	VERABILITY	•)2 = 0.2	07	
$(P_c)^2 = \frac{(P_c)^2 - (P_a)^2}{0r}$ $(P_c)^2 - (P_d)^2$		(P _w) ²		Choose formula 1 or 2: 1. P _c ² - P _d ² 2. P _c ² - P _d ² divided by: P _c ² - P _d ²		LOG of formula 1. or 2. and divids p 2 p 2		_% (P _c - 14.4) Backpressure Curv Slope ≈ "n" Assigned Standard Slope			LOG [A	(P _d	Or Del Equals	Open Flow Deliverability Equals R x Antilog (Mcfd)	
								-						-	-	
<u> </u>						<u> </u>								<u> </u>		
Open Flo	w				Mcfd @ 14.6	55 psia		Deliveral	bility 10			Mcfd @	14.65 ps	ia		
									N 1 3/1	-	ne above repo	ort and	that he h	as know	ledge of	
lhe facts s	tated t	here	in, and that s	aid r	report is true	and correc	t. Execute KANSAS (d this the Received CORPORATION C	COMMISSION	day of	6 D	12 N	20	· '	20	
			Witness	(il any)	•	D	EC 04 2	1815 /	ALLA	U Fin	Company	6			
			For Com	missio	n		CON	SERVATION DI WICHITA, KS	VISION		Che	cked by				

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator MIDWESTERN EXPLORATION CO. and that the foregoing pressure information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon available production summaries and lease records of equipment installation and/or upon type of completion or upon use being made of the gas well herein named. I hereby request a one-year exemption from open flow testing for the D. BROWN #1-19 gas well on the grounds that said well:
(Check one) 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 I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.
Signature: Male Halla- Title: President Dale J. Collar

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.

Midwestern Exploration Gauge and Production Report

Lease:		<u>D. B</u>	rown 1	<u>-19</u>	Month <u>:</u>	October	Year:_	<u>2015 </u>	per:	<u>JK. J</u>	<u> Brungardt</u>	·——
Day	Tube	Case	Line	Diff.	MCF	Tank	Tank	Oil	Water		Comme	nts
			Pres	<u> </u>	Day	42984	42985	production	Prod.	<u> </u>		
			g Gaug			0-11	5-3		<u> </u>			
2	33	33	33	0_	5	0-11	5-3	0	0	<u> </u>	·	
3.	33	33	33	0	4	0-11	<u>5-</u> 3	0	_0			
4.	33	33	33	0	5	0-11	5-3	0	0	<u> </u>		
5.	33	33	33	0_	4	0-11	5-3	0	0	<u> </u>		
6.	33	33	33	0	4	0-11	5-3	0	0	<u> </u>		
7.	33	33	33	0	5	0-11	<u>5-3</u>	0	0_			
8	32_	32	32	0	4	0-11	5-3	0	_0			
<u>9.</u>	32	32	_32	0	4	0-11	5-3	0	0	<u> </u>		
<u> 10.</u> _	_ 32	32	32	0_	4	0-11_	<u>5-3</u>	0	_0			
<u>11.</u>	32	_32	_32	0	5	_0-11	5-3	0	0	<u> </u>		
<u> 12. </u>	_32	32	32	0_	5	0-11	<u>5-3</u>	0	0	ļ		
<u> 13.</u> _	32	32	32	0_	5	0-11	5-3	0	0	<u> </u>	<u> </u>	
<u>14.</u> _	32	32_	32	0	4	0-11	<u>5-</u> 3	0	0		t in for 24 hr	test
<u> 15.</u>	110	110	31_	0	1	0-11	<u>5-3</u>	0	0.	Put	on line	
16	31	31	31	3	4	0-11	5-3	0	0	<u> </u>		
Tota	l Volum	e for 1st	half of	month	63			0	0			
					MCF			Oil_	Water	<u> </u>		_
<u>17. </u>	31	31	31	3	10	0-11	5-3	0	0			
<u> 18.</u>	31	31	31	3	10	0-11	<u>5-3</u>	0	0	 		
19.	31_	31	31	3	10	0-11	<u>5-3</u>	0	0	<u> </u>		
20.	31	31	31	3	10	0-11	5-3	0	0_	<u> </u>		
21.	31	31	31	3	9	0-11	5-3	0	0	├		<u>. </u>
22.	31_	31	31	3	9	0-11	5-3	0	0_	<u> </u>		
23.	31	31	31	3	9	0-11	5-3	0	0			
24.	31	31	31	3	9	0-11	5-3	0	0	├		
25.	31	31	31	3	9	0-11	<u>5-3</u>	0	0	<u> </u>		<u>-</u>
26.	31	31	31	3	8	0-11	5-3	0	0	├		
27.	35	35	35	1	8	0-11	5-3	0	0	<u> </u>		
28.	35	35	35	1 1	8	0-11	5-3	0	0	<u> </u>		
<u> 29.</u> _	35	35	35	1	8	0-11	5-3	0	0			
30	35_	35	35	1 1	8	0-11	5-3	0	0			
31.	35_	35	35	1 1	8	0-11	5-3	0	0	 		
[]	35	35	35	1	8	0-11	5-3	0	0	 		<u> </u>
l otal	Volume	e for 2 nd	half of	month	141 MOE			0	0			
					MCF			Oil	Water	<u> </u>		
<u>_</u>		500	, -				INE RU				T 0 1	
Date 		Ticket #		Tank lumber	Ft.	From In	Ft.	To In.	Bar	reis ———	els Gravity	BS&W
		+				KAN	Recei	ved ION COMMISSION				
 					 -		DEC-0		-			
		1			1		ONSERVATION	1			1	