

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow
 Deliverability

(See Instructions on Reverse Side)

Test Date:
10/14/2015

API No. 15
175-22054 - 0000

Company MIDWESTERN EXPLORATION COMPANY			Lease D. BROWN		Well Number 2-19
County SEWARD	Location 1880 FNL & 1990 FEL	Section 19	TWP 34S	RNG (E/W) 33W	Acres Attributed
Field SALLEY		Reservoir CHESTER	Gas Gathering Connection DCP MIDSTREAM		
Completion Date 01-06-06		Plug Back Total Depth 6450	Packer Set at		
Casing Size 4.5	Weight 10.5	Internal Diameter	Set at 6485	Perforations 6172	To 6254
Tubing Size 2.375	Weight 4.7	Internal Diameter	Set at 6168	Perforations	To
Type Completion (Describe) SINGLE GAS		Type Fluid Production WATER/OIL	Pump Unit or Traveling Plunger? Yes / No NO		
Producing Thru (Annulus / Tubing) TUBING		% Carbon Dioxide	% Nitrogen	Gas Gravity - G _g	
Vertical Depth(H) 6684		Pressure Taps		(Meter Run) (Prover) Size	
Pressure Buildup: Shut in 10/14 20 15 at _____ (AM) (PM) Taken 10/15 20 15 at _____ (AM) (PM)					
Well on Line: Started 10/15 20 15 at _____ (AM) (PM) Taken 10/16 20 15 at _____ (AM) (PM)					

OBSERVED SURFACE DATA

Duration of Shut-in _____ Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (P _m)	Pressure Differential in Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						190		188		24	
Flow						33		33		24	

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _s) (F _p) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F _g	Flowing Temperature Factor F _{tt}	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						13		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = _____ : (P_w)² = _____ : P_d = _____ % (P_c - 14.4) + 14.4 = _____ : (P_o)² = 0.207
(P_d)² = _____

(P _c) ² - (P _o) ² or (P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _o ² 2. P _c ² - P _d ² divided by: P _c ² - P _w ²	LOG of formula 1. or 2. and divide by: $P_c^2 - P_w^2$	Backpressure Curve Slope = "n" ----- Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)

Open Flow Mcfd @ 14.65 psia Deliverability 13 Mcfd @ 14.65 psia

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the 25th day of November, 2015.

Received
KANSAS CORPORATION COMMISSION

Witness (if any)

DEC 04 2015

For Commission

CONSERVATION DIVISION
WICHITA, KS

Checked by

[Signature]
For Company

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 #2-19 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.

Date: 11/25/2015

Signature: 
Title: President Dale J. Lollar

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: **D. Brown 2-19** Month: **October** Year: **2015** Pumper: **JR. Brungardt**

Day	Tube	Case	Line Pressure	Diff.	MCF Day	Hrs. On	Oil Tank #1	Oil Day	Water Day	Comments
2.	35	35	35	0	11		4-9	0	0	
3.	35	35	35	0	12		4-9	0	0	
4.	35	35	35	0	12		4-9	0	0	
5.	35	35	35	0	11		4-9	0	0	
6.	35	35	35	0	12		4-9	0	0	
7.	35	35	35	0	11		4-9	0	0	
8.	34	34	34	1	12		4-9	0	0	
9.	34	34	34	1	12		4-9	0	0	
10.	34	34	34	1	12		4-9	0	0	
11.	34	34	34	1	13		4-9	0	0	
12.	34	34	34	1	12		4-9	0	0	
13.	34	34	34	1	12		4-9	0	0	
14.	34	34	34	1	13		4-9	0	0	Shut in for 24 hr test
15.	188	190	32	0	4		4-9	0	0	Put on line
16.	33	33	33	7	13		4-9	0	0	
Total volume for 1st half of month					172 MCF			0 Oil	0 Water	
17.	33	33	33	7	14		4-9	0	0	
18.	33	33	33	7	14		4-9	0	0	
19.	33	33	33	7	14		4-9	0	0	
20.	33	33	33	7	14		4-9	0	0	
21.	33	33	33	7	13		4-9	0	0	
22.	33	33	33	7	13		4-9	0	0	
23.	33	33	33	7	13		4-9	0	0	
24.	33	33	33	7	13		4-9	0	0	
25.	33	33	33	7	13		4-9	0	0	
26.	33	33	33	7	13		4-9	0	0	
27.	36	36	36	2	12		4-9	0	0	
28.	36	36	36	2	12		4-9	0	0	
29.	36	36	36	2	12		4-9	0	0	
30.	36	36	36	2	12		4-9	0	0	
31.	36	36	36	1	12		4-9	0	0	
1.	36	36	36	1	12		4-9	0	0	
Total volume for 2nd half of month					206 MCF			0 Oil	0 Water	

PIPELINE RUNS

Date	Ticket #	Tank Number	From		To		Barrels	Gravity	BS&W
			Ft.	In.	Ft.	In.			

Notes:

Received
KANSAS CORPORATION COMMISSION

DEC 04 2015

CONSERVATION DIVISION
WICHITA, KS