

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow
 Deliverability

(See Instructions on Reverse Side)

Test Date:

API No. 15
1511920498 - 00 - 00

Company Pan Gas Storage Company LLC		Lease Friesen		Well Number 2-3	
County Meade	Location NENWSENE	Section 3	TWP 33S	RNG (E/W) 28W	Acres Attributed
Field Borchers North		Reservoir Mississippian		Gas Gathering Connection DCP Midstream	
Completion Date 12/13/81		Plug Back Total Depth 5720		Packer Set at none	
Casing Size 5.5	Weight 17	Internal Diameter 4.892	Set at 5751	Perforations 5652	To 5708
Tubing Size none	Weight	Internal Diameter	Set at	Perforations	To
Type Completion (Describe) casing flow		Type Fluid Production Saltwater		Pump Unit or Traveling Plunger? Yes / <input checked="" type="checkbox"/> No	
Producing Thru (Annulus / Tubing) Casing		% Carbon Dioxide		% Nitrogen	
Vertical Depth (ft)		Pressure Taps		(Meter Run) (Prover) Size	

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Pressure Buildup: Shut in 10/6 20 11 at 7:55 AM (AM) (PM) Taken 10/10 20 11 at 8:00 AM (AM) (PM)

Well on Line: Started 10/10 20 11 at 9:00 AM (AM) (PM) Taken 10/11 20 11 at 9:00 AM (AM) (PM)

OBSERVED SURFACE DATA

Duration of Shut-in _____ Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (Pm)	Pressure Differential in Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _i) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						243	257.4			over 24 hrs	
Flow						141	155.4			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
						200		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

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

(P _c) ² - (P _s) ² or (P _c) ² - (P _d) ²	(P _c) 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 _w ²	LOG of formula 1. or 2. and divide by: $\frac{P_c^2 - P_w^2}{P_c^2 - P_d^2}$	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 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 7 day of September, 20 2012.

Witness (if any)

For Commission

Larry J. Jenkins, PE

For Company

Checked by _____

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Form G-2
(Rev. 7/03)

SEP 18 2012

KCC WICHITA

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 Pan Gas Storage Company LLC 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 Friesen 2-3 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: September 7, 2012

Signature: Larry J. Gorski, PE
Title: Principal Petroleum Engineer

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.

PAN GAS STORAGE COMPANY LLC
5051 Westheimer Rd
Houston, Texas 77056
Room 1540

September 7, 2012

Jim Hemmen
KCC Production Department
Kansas Corporation Commission
Finney State Office Building
130 S. Market, Room 2078
Wichita, KS 67202-3802

RE: G-2 Forms for the Nichols "A"1-2 and the Friesen 2-3 Gas Wells

Dear Mr. Hemmen:

Please find enclosed G-2 forms for the following wells for 2011.

Nichols "A" 1-2 gas well, Sec 2-33S-28W, Meade County, API No. 15119-10119
Friesen 2-3 gas well, Sec 3-33S-28W, Meade County, API No. 15119-20498

We are requesting a one year exemption from flow testing on both wells as neither well is capable of producing at a daily rate in excess of 250 Mcf/d.

If there are any questions or additional information is required, please contact me at the numbers listed below or by e-mail.

Respectfully,



Larry Jenkins, PE
Principal Petroleum Engineer
713-989-7484
713-989-1135 fax
Larry.jenkins@sug.com

Word/KCC G-2 Cover letter 2011.doc

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