

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow
 Deliverability

(See Instructions on Reverse Side)

Test Date:
10-27-12

API No. 15
15-009-23878-0001

Company FARRIS WELL SERVICE COMPANY		Lease MILLER		Well Number 1	
County BARTON	Location N/2 S/2 SE	Section 28	TWP 19S	RNG (E/W) 14W	Acres Attributed
Field GREAT BEND SHALLOW GAS AREA		Reservoir HERRINGTON KRIDER		Gas Gathering Connection MID KANSAS GAS GATHERING	
Completion Date 12-5-95 (RECOMP)		Plug Back Total Depth 2020		Packer Set at NONE	
Casing Size 4.5	Weight 10.5	Internal Diameter 4.090	Set at 2355	Perforations 1722	To 1725
Tubing Size	Weight	Internal Diameter	Set at	Perforations	To

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Type Completion (Describe) SINGLE GAS	Type Fluid Production NONE	Pump Unit or Traveling Plunger? NO	Yes / No
Producing Thru (Annulus / Tubing) ANNULUS	% Carbon Dioxide	% Nitrogen	Gas Gravity - G _g .700
Vertical Depth(H) 1724	Pressure Taps FLANGE	(Meter Run) (Prover) Size 2.067"	
Pressure Buildup: Shut in 10-23-12 20 at 0930 (AM) (PM) Taken 10-26-12 20 at 0930 (AM) (PM)			
Well on Line: Started 10-26-12 20 at 0930 (AM) (PM) Taken 10-27-12 20 at 0930 (AM) (PM)			

OBSERVED SURFACE DATA

Duration of Shut-in 72.0 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 _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						248.7	263.1			72.0	
Flow	.375	26.8	54.0		75	57.3	71.7			24.0	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _b) (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 _t	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
.686	41.20	47.17	1.1952	1.0632	1.0067	41.4	NONE	0.700

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 69.2 ; (P_w)² = 5.1 ; P_d = 27.3 % ; (P_c - 14.4) + 14.4 = 263.1 ; (P_a)² = 0.207 ; (P_o)² =

(P _c) ² - (P _a) ² or (P _c) ² - (P _o) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _a ² 2. P _c ² - P _o 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" or Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
69.01	64.08	1.077	0.0322	0.850	0.0274	1.0651	44.09

Open Flow 44 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 27 day of OCTOBER, 20 12

Copy to KCC Wichita
Witness (if any)

Precision Wireline & Testing
For Company
Mark A. Beck
Checked by

For Commission

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 _____ 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 _____ 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: _____

Signature: _____

Title: _____

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.