

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

☐ Open Flow☐ Deliverability

(See Instructions on Reverse Side)

Test Date:
2/26/14API No. 15
007-22,693-00-00

Company Pollok Energy, LLC			Lease Benson		Well Number 1-4
County Barber	Location SENWNW	Section 4	TWP 35S	RNG (E/W) 14W	Acres Attributed
Field Aetna Gas Area		Reservoir Miss	Gas Gathering Connection Atlas		
Completion Date 7/03/02		Plug Back Total Depth 4981	Packer Set at none		
Casing Size 4.5	Weight	Internal Diameter	Set at 4999	Perforations 4830	To 4884
Tubing Size 2.375	Weight	Internal Diameter	Set at 4815	Perforations	To
Type Completion (Describe) single		Type Fluid Production SW	Pump Unit or Traveling Plunger? Yes / No Yes - Traveling Plunger		
Producing Thru (Annulus / Tubing) Tubing		% Carbon Dioxide .079	% Nitrogen 1.782	Gas Gravity - G _g .651	
Vertical Depth(H)		Pressure Taps		(Meter Run) (Prover) Size	

Pressure Buildup: Shut in _____ 20 ____ at _____ (AM) (PM) Taken _____ 20 ____ at _____ (AM) (PM)

Well on Line: Started _____ 20 ____ at _____ (AM) (PM) Taken _____ 20 ____ at _____ (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 _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In											
Flow											

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _p) (F _o) Mcf/d	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 (Mcf/d)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

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

(P _c) ² - (P _a) ² or (P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _a 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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2}$	Backpressure Curve Slope = "n" -----or----- Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcf/d)

Open Flow

Mcf/d @ 14.65 psia

Deliverability

Mcf/d @ 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 26th day of February, 20 14.

Witness (if any)

For Commission

For Company

Checked by

KCC WICHITA

MAR 06 2014

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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 Pollok Energy, 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 Benson 1-4 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: 2/26/14

NO 2013 SIP'S
SUBMITTED - WELL
HAS PLUNGER LIFT

Signature: Mary Beth Brock
Title: MANAGER

the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may be eligible for exempt status as described above in order to claim exempt status for the gas well.

For each calendar year, wellhead shut-in pressure shall have been measured after a specified 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.

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Meter Analysis

January, 2014

Atlas Pipeline Company

Avard System

Meter: 95241838

Name: Benson 1-4

	Mol %	Liquid Content		
Carbon Dioxide	0.079	0.0133	Pressure Base	14.730
Nitrogen	1.782	0.1960	Temperature Base	60.00
Methane	87.769	14.8757		
Ethane	5.893	1.5756		
Propane	2.594	0.7144	Relative Density	0.6514
Iso-Butane	0.295	0.0964	Dry Heating Value	1133.81
N-Butane	0.798	0.2514	As Del Heating Value	1130.72
Iso-Pentane	0.173	0.0632	Sat Heating Value	1114.08
N-Pentane	0.240	0.0869		
Hexane	0.379	0.1652		
Heptane			C2+ Liquid Content	2.9531
Octane			C5+ Liquid Content	0.3152
Nonane			C6+ Liquid Content	0.1652
Decane			26# Gasoline	0.4934
Oxygen			H2S ppm	0.0
Hydrogen				
Helium				
Argon				
Water Vapor				
Hydrogen Sulfide				

Total	100.000	18.0381
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