

**KANSAS CORPORATION COMMISSION  
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST**

FORM G-2  
(Rev. 8/98)

TYPE TEST:

- Open Flow  
 Deliverability

TEST DATE: 4/4/2011

API No. 15-053-21123-0000

Company Samuel Gary Jr. & Associates		Lease Schroeder Trust			Well Number 1-18	
County Ellsworth	Location 1300'FNL1800'FE	Section SE NW NE 18	TWP 16s	RNG(E/W) 7w	Acres Attributed 295	
Field Wildcat	Reservoir Grand Haven		Gas Gathering Connection American Energies			
Completion Date 2004	Plug Back Total Depth 2247		Packer Set at none			
Casing Size 4.500	Weight 9.500	Internal Diameter 4.090	Set at 2288	Perforations 1770	To 1787	
Tubing Size NONE	Weight	Internal Diameter	Set at	Perforations	To	
Type Completion (Describe) single gas	Type Fluid Production Gas		Pump Unit or Traveling Plunger? NO			
Producing Thru(Annulus/Tubing) tubing	% Carbon Dioxide 0.015		% Nitrogen 36.748		Gas Gravity- Gg 0.733	
Vertical Depth (H) 1778	Pressure Taps flange		Meter Run Size 2.067			
Pressure Buildup: Shut in	4/1/2011 @ 0900		TAKEN	4/4/2011 @ 0930		
Well on Line: Started	4/4/2011 @ 0930		TAKEN	4/5/2011 @ 0930		

**OBSERVED SURFACE DATA**

Static/ Dynamic Property	Orifice Size in.	Meter Pressure psig	Pressure Diff. In. H <sub>2</sub> O	Flowing Temp. t.	WellHead Temp. t.	Casing WellHead Press. (P <sub>w</sub> ) (P <sub>t</sub> ) (P <sub>c</sub> )		Tubing WellHead Press. (P <sub>w</sub> ) (P <sub>t</sub> ) (P <sub>c</sub> )		Duration (Hours)	Liquid Prod. Barrels
						psig	psia	psig	psia		
Shut-in						468	482			72.0	
Flow	1.000	78.0	65.00			180	194			24.0	

**FLOW STREAM ATTRIBUTES**

COEFFICIENT (F <sub>b</sub> ) Mcfd	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times H_w}$	GRAVITY FACTOR Fg	FLOWING TEMP FACTOR Ft	DEVIATION FACTOR Fpv	RATE OF FLOW R Mcfd	GOR	G <sub>m</sub>
5.073	92.4	77.50	1.1680	1.0632	1.0083	492		0.733

**(OPEN FLOW)(DELIVERABILITY) CALCULATIONS**

$(P_c)^2 = 232.7$

$(P_w)^2 = 37.8$

$P_d = 19.9$

$(P_c - 14.4) + 14.4 =$

$(P_a)^2 = 0.207$

$(P_d)^2 = 9.22$

$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	$(P_c)^2 - (P_w)^2$	$\frac{[(P_c)^2 - (P_a)^2] \text{ or } [(P_c)^2 - (P_d)^2]}{[(P_c)^2 - (P_w)^2]}$	LOG	Backpressure Curve Slope "n" ---- or ---- Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability = R x Antilog Mcfd
232.50	194.92	1.193	0.0766	0.894	0.0685	1.171	576
223.49	194.92	1.147	0.0594	0.894	0.0531	1.130	556

OPEN FLOW 576 Mcfd @ 14.65 psia      DELIVERABILITY 556 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 herein and that said report is true and correct. Executed this the 4 day of April, 2011

Witness (if any)

For Commission

For Company

Checked by

**RECEIVED**

**APR 06 2011**

**KCC WICHITA**

I declare under penalty or 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 Samuel Gary Jr. & Associates and that the foregoing information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon gas production records and records of equipment installation and/or of type completion or upon use of the gas well herein named.

I hereby request a permanent exemption from open flow testing for the Schroeder Trust 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 incapable of producing at a daily rate in excess of 250 mcf/D

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

**Instructions:**

All active gas wells must have at least an original G-2 form on file with the conservation division. If a gas well meets 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 obtain a testing exemption.

At some point during the succeeding calendar year, wellhead shut-in pressure shall be 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.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than thirty (30) days after the taking of the pressure reading. The form must be signed and dated on the front side as though it was a verified report of test results.