

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

(See Instructions on Reverse Side)

Type Test:  
 Open Flow  
 Deliverability

Test Date:  
5/17/2011

API No. 15  
15-119-20500 - ○○○○

Company <b>Samson Resources Company</b>		Lease <b>Merkle</b>		Well Number 2-8	
County <b>Meade</b>	Location <b>NW NW 0 SE NW</b>	Section <b>8</b>	TWP <b>35</b>	RNG (E/W) <b>28W</b>	Acres Attributed
Field <b>Adams Ranch</b>		Reservoir <b>Chester</b>	Gas Gathering Connection <b>Western Resources</b>		
Completion Date <b>7/19/1981</b>		Plug Back Total Depth <b>6133</b>		Packer Set at <b>5989.5</b>	
Casing Size <b>4.5</b>	Weight <b>10.5</b>	Internal Diameter <b>2.922</b>	Set at <b>6220</b>	Perforations <b>6060</b>	To <b>6078</b>
Tubing Size <b>2.375</b>	Weight <b>4.7</b>	Internal Diameter <b>1.995</b>	Set at <b>6057</b>	Perforations	To
Type Completion (Describe) <b>Single (Casing Perforations)</b>		Type Fluid Production <b>None</b>		Pump Unit or Traveling Plunger?	Yes / No <b>No</b>
Producing Thru (Annulus / Tubing)		% Carbon Dioxide		% Nitrogen	Gas Gravity - Gg <b>0.6999</b>
Vertical Depth (H) <b>6220</b>		Pressure Taps <b>Pipe</b>		(Meter Run) (Prover) Size <b>2.068</b>	
Pressure Buildup:	Shut-in <u>May-17</u>	20 <u>11</u> at	(AM/PM) Taken	<u>May-18</u>	20 <u>11</u> at
Well on Line:	Started _____	20 _____ at	(AM/PM) Taken	_____	20 _____ at

**OBSERVED SURFACE DATA**

Static / Dynamic Property	Orifice Size inches	Circle one: Meter or Prover Pressure psig	Pressure Differential in (h) Inches H2O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (Pw) or (Pt) or (Pc) psig		Tubing Wellhead Pressure (Pw) or (Pt) or (Pc) psig		Duration (hours)	Liquid Produced (Barrels)
						psia	psia	psia	psia		
Shut-in								98	112.4	24	
Flow											

**FLOW STREAM ATTRIBUTES**

Plate Coefficient (Fb)(Fp) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension (Pm x Hw)^2	Gravity Factor Fg	Flowing Temperature Factor Ft	Deviation Factor Fpv	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity Gm

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

(Pc)2 = 12.634      (Pw)2 = \_\_\_\_\_      Pd = \_\_\_\_\_ %      (Pc-14.4)+14.4 = \_\_\_\_\_      (Pa)2 = 0.207  
(Pd)2 = \_\_\_\_\_

(Pc)2 - (Pa) or (Pc)2 - (Pd)2	(Pc)2 - (Pw)2	$\left[ \begin{matrix} Pc2 - Pa2 \\ Pc2 - Pd2 \\ Pc2 - Pw2 \end{matrix} \right]$	LOG $\left[ \quad \right]$	Backpressure Curve Slope = "n" _____ or Assigned Standard Slope	n x LOG $\left[ \quad \right]$	ANTILOG	Open Flow Deliverability Equals R x Antilog Mcfd
				0.900			

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 19 day of May 20 11

*[Signature]*  
SAMSON RESOURCES COMPANY  
For Company

Witness (if any)

For Commission

Computer Checked by

**RECEIVED**

**MAY 23 2011**

**KCC WICHITA**

7160-3901-9842-8199-8434

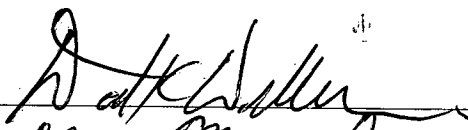
I declare under penalty or perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Samson Resources Company and that the foregoing information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon gas production records and records of equipment installation and/or type completion or upon use of the gas well herein named.

I hereby request a permanent exemption from open flow testing for the Merkle 2-8 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: 5/19/2011

Signature:   
Title: Gas Meter Operator

**Instructor** 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.