

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

(See Instructions on Reverse Side)

Type Test:  
 Open Flow  
 Deliverability

Test Date:  
**5/8/2013**

API No. 15  
**15-025-21187-0000**

Company <b>Samson Resources Company</b>		Lease <b>Theis W</b>		Well Number <b>3-5</b>	
County <b>Clarke</b>	Location <b>C SW</b>	Section <b>5</b>	TWP <b>35S</b>	RNG (EW) <b>25W</b>	Acres Attributed
Field <b>McKinney</b>		Reservoir <b>Chester</b>		Gas Gathering Connection <b>DCP Midstream</b>	
Completion Date <b>12/21/1999</b>		Plug Back Total Depth <b>6089</b>		Packer Set at	
Casing Size <b>4.5</b>	Weight <b>11.6</b>	Internal Diameter <b>4.000</b>	Set at <b>6130</b>	Perforations <b>5922</b>	To <b>5973</b>
Tubing Size <b>2.375</b>	Weight <b>4.7</b>	Internal Diameter <b>1.995</b>	Set at <b>5917</b>	Perforations	To
Type Completion (Describe) <b>Single</b>		Type Fluid Production <b>Oil-Water</b>		Pump Unit or Traveling Plunger?	Yes / No <b>Yes</b>
Producing Thru (Annulus / Tubing) <b>Casing</b>		% Carbon Dioxide		% Nitrogen	Gas Gravity - Gg <b>0.65</b>
Vertical Depth (H) <b>6130</b>		Pressure Taps <b>Pipe</b>		(Meter Run) (Prover) Size <b>3.068</b>	
Pressure Buildup: Well on Line:	Shut-in Started	<b>May-8</b> <b>20</b>	<b>13</b> at	(AM/PM) Taken <b>May-9</b> <b>20</b>	<b>13</b> at (AM/PM)

### 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)	Duration of Shut-in Hours	Liquid Produced (Barrels)
						psia	psia	psig	psia			
Shut-in						203	217.4			24		
Flow												

### FLOW STREAM ATTRIBUTES

Plate Coefficient (Fb)(Fp) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension (Pm x Hw) <sup>2</sup>	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)<sup>2</sup> 47.263 (Pw)<sup>2</sup> = \_\_\_\_\_ Pd = \_\_\_\_\_ % (Pc-14.4)+14.4 = \_\_\_\_\_ (Pa)<sup>2</sup> = 0.207 (Pd)<sup>2</sup> = \_\_\_\_\_

(Pc) <sup>2</sup> - (Pa) <sup>2</sup> or (Pc) <sup>2</sup> - (Pd) <sup>2</sup>	(Pc) <sup>2</sup> - (Pw) <sup>2</sup>	[ Pc <sup>2</sup> - Pa <sup>2</sup> Pc <sup>2</sup> - Pd <sup>2</sup> Pc <sup>2</sup> - Pw <sup>2</sup> ]	LOG [ ]	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG [ ]	ANTILOG	Open Flow Deliverability - Equals R x Antilog Mcfd
				0.700			

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 20<sup>th</sup> day of May 2013.

*[Signature]*  
 SAMSON RESOURCES COMPANY  
 For Company

Witness (if any)

For Commission

**KCC-WICHITA**

Computer  
Checked by

7010-0780-0001-3731-1319

MAY 22 2013

RECEIVED

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 Thisis W 3-5 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: 5/20/2013

Signature: *D. A. K. Miller*  
Title: *Gas Meas. Spec.*

**Instruction** 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.