

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

Type Test:

- Open Flow  
 Deliverability

(See Instructions on Reverse Side)

Test Date:  
09/26/2011

API No. 15  
15-047-20,528 - 0600

Company D.S. & W. Well Servicing, Inc.		Lease Welsch		Well Number #1	
County Edwards	Location N/2 S/2 NE/4	Section 27	TWP 25S	RNG (E/W) 17W	Acres Attributed 80
Field McCarty NE EXT (1/4E)		Reservoir Cherokee Sand.		Gas Gathering Connection ONEOK	
Completion Date 07/16/1979		Plug Back Total Depth N/A		Packer Set at None	
Casing Size 4-1/2"	Weight N/A	Internal Diameter N/A	Set at 4488'	Perforations 4488'	To 4456'
Tubing Size 2-3/8"	Weight 4.7	Internal Diameter N/A	Set at 4473.98'	Perforations	To
Type Completion (Describe) Alt.		Type Fluid Production Brine		Pump Unit or Traveling Plunger? Yes / No Pump Unit	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide .3420%		% Nitrogen 4.1303%	
Vertical Depth(H) N/A		Pressure Taps Approx. 50#		(Meter Run) (Prover) Size Meter Run	
Pressure Buildup: Shut in <u>Sept. 26</u> 20 <u>11</u> at <u>2:00</u> (AM) <u>(PM)</u> Taken <u>Sept. 27</u> 20 <u>11</u> at <u>2:00</u> (AM) <u>(PM)</u>					
Well on Line: Started _____ 20____ at _____ (AM) (PM) Taken _____ 20____ at _____ (AM) (PM)					

### OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or Prover Pressure psig (Pm)	Pressure Differential in inches H <sub>2</sub> O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						58#					
Flow											

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>s</sub> ) (F <sub>p</sub> ) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F <sub>g</sub>	Flowing Temperature Factor F <sub>t</sub>	Deviation Factor F <sub>pv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>c</sub>)<sup>2</sup> = \_\_\_\_\_ : (P<sub>w</sub>)<sup>2</sup> = \_\_\_\_\_ : P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ : (P<sub>s</sub>)<sup>2</sup> = 0.207 : (P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

(P <sub>c</sub> ) <sup>2</sup> - (P <sub>s</sub> ) <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</sub> ) <sup>2</sup>	(P <sub>d</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2: 1. P <sub>c</sub> <sup>2</sup> - P <sub>s</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide by: $\left[ \frac{P_c^2 - P_w^2}{P_c^2 - P_s^2} \right]$	Backpressure Curve Slope = "n" Assigned Standard Slope	n x LOG $\left[ \frac{P_c^2 - P_w^2}{P_c^2 - P_s^2} \right]$	Antilog	Open Flow Deliverability Equals n x R (Mcfd)

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 7th day of October, 2011.

\_\_\_\_\_  
Witness (if any)

*Edward J. Ferris*  
For Company

\_\_\_\_\_  
For Commission

\_\_\_\_\_  
Checked by

RECEIVED  
OCT 11 2011  
KCC WICHITA

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 D.S. & W. Well Servicing, Inc. 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 Welsch 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: October 7, 2011

Signature: 

Title: Corporate Secretary-Treasurer

**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.

**D.S. & W. Well Servicing, Inc.**  
Last 12 Months Gas Sales  
Welsch #1  
API #15-047-20,528; Sec. 27-25S-17W

<b>Month</b>	<b>Year</b>	<b>MCF Sold</b>	<b>Daily MCF</b>
August	2011	0.00	0.00
July	2011	270.00	8.71
June	2011	136.00	4.53
May	2011	0.00	0.00
April	2011	0.00	0.00
March	2011	0.00	0.00
February	2011	0.00	0.00
January	2011	0.00	0.00
December	2010	50.00	1.61
November	2010	399.00	13.30
October	2010	621.00	20.03
September	2010	0.00	0.00
Totals		1,476.00	4.04

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