

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow
 Deliverability

(See Instructions on Reverse Side)

Test Date:
10/21/14

API No. 15
15-047-20,528 - 0000

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 .3478	% Nitrogen 3.8538	Gas Gravity - G _g N/A	
Vertical Depth(H) N/A		Pressure Taps Approx 50#		(Meter Run) (Prover) Size Meter Run	
Pressure Buildup: Shut in <u>Oct. 21</u> 20 <u>14</u> at <u>1:45</u> (AM) (PM) Taken <u>Oct. 22</u> 20 <u>14</u> at <u>1:55</u> (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 ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						57#					
Flow											

FLOW STREAM ATTRIBUTES

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

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

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

(P _c) ² - (P _a) ² or (P _o) ² - (P _o) ²	(P _o) 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: $\left[\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2} \right]$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG $\left[\right]$	Antilog	Open Flow Deliverability Equals R x Antilog (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 5th day of December, 20 14.

KCC WICHITA
[Signature]

Witness (if any)

For Company

For Commission

DEC 15 2014

Checked by

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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 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: December 5, 2014

Signature: 

Title: Corporate Secretary-Treasurer

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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

Month	Year	MCF Sold	Daily MCF
October	2014	295.00	9.52
September	2014	300.00	10.00
August	2014	252.00	8.13
July	2014	335.00	10.81
June	2014	230.00	7.67
May	2014	404.00	13.03
April	2014	250.00	8.33
March	2014	309.00	9.97
February	2014	51.00	1.82
January	2014	0.00	0.00
December	2013	187.00	6.03
November	2013	216.00	7.20
Totals		2,829.00	7.75

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