

# KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST FEB 06 2015

CONSERVATION DIVISION  
WICHITA, KS

Type Test:

Open Flow

Deliverability

Test Date:

JAN 12 2014

API No. 15

15 007 22421 0000

Company

RED CEDAR OIL

Lease

FARNEY

Well Number

1-2

County

BARBER

Location

C NE NW

Section

2

TWP

34S

ANG (EW)

12 W

Acres Attributed

Field

GROEN DYKE SOUTH

Reservoir

MISSISSIPPI

Gas Gathering Connection

AMERICAN PIPE LINE - ATLAS PIPE LINE

Completion Date

12 15 93

Plug Back Total Depth

4994

Packer Set at

Casing Size

4.5

Weight

10.5

Internal Diameter

3.927

Set at

4996

Perforations

4661

To

4681

Tubing Size

2.375

Weight

4.7

Internal Diameter

1.995

Set at

4647

Perforations

To

Type Completion (Describe)

SINGLE

Type Fluid Production

WTR

Pump Unit or Traveling Plunger? Yes / No

PUMP UNIT

Producing Thru (Annulus / Tubing)

ANNULUS

% Carbon Dioxide

% Nitrogen

Gas Gravity - G<sub>g</sub>

Vertical Depth(H)

Pressure Taps

(Meter Run) (Prover) Size

2"

Pressure Buildup: Shut in JAN 12 2014 at 3 45 (AM) (PM) Taken 19 at (AM) (PM)

Well on Line: Started JAN 14 2014 at 1 20 (AM) (PM) Taken 19 at (AM) (PM)

### OBSERVED SURFACE DATA

Duration of Shut-in \_\_\_\_\_ Hours

Static / Dynamic Property	Orifice Size inches	Circs one: Meter or Prover Pressure psig	Pressure Differential in (h) Inches H <sub>2</sub> O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>i</sub> ) or (P <sub>e</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>i</sub> ) or (P <sub>e</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						120					
Flow											

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>o</sub> ) (F <sub>o</sub> ) Mcfd	Circs one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_w \times H_w}$	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>e</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>e</sub>)<sup>2</sup> = 0.207  
(P<sub>w</sub>)<sup>2</sup> = \_\_\_\_\_

$(P_e)^2 - (P_w)^2$ or $(P_e)^2 - (P_d)^2$	$(P_w)^2 - (P_d)^2$	Choose formula 1 or 2: 1. $P_e^2 - P_w^2$ 2. $P_e^2 - P_d^2$ divided by: $P_e^2 - P_w^2$	LOG of formula 1, or 2, and divide by: $P_e^2 - P_w^2$	Backpressure Curve Slope = "n" or Assigned Standard Slope	n x LOG [ ]	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 14 day of JANUARY 2014, 19.

Witness (if any)

For Commission

RED CEDAR OIL LLC

For Company

Dale Walker

Checked by

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 RED CEDAR OIL LLC 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 FARNEY 1-2 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 150 mcf/D

Date: 14 JANUARY 2014

Signature: Dale Walker

Title: MEMBER

**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.