

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Received _____
KANSAS CORPORATION COMMISSION

FEB 06 2015

Type Test:

(See Instructions on Reverse Side)

CONSERVATION DIVISION
WICHITA, KS

- Open Flow
- Deliverability

Test Date: JAN 12 2014 15 007 22766-0000

Company: **RED CEDAR OIL** Lease: **L WAYNE DAVIS** Well Number: **1**

County: **BARBER** Location: **SE** Section: **2** TWP: **33S** RNG (E/W): **11W** Acres Attributed: **160**

Field: **RHODES** Reservoir: **MISSISSIPPI** Gas Gathering Connection: **ONEOK**

Completion Date: **2003** Plug Back Total Depth: _____ Packer Set at: _____

Casing Size: **4.5** Weight: **10.5** Internal Diameter: _____ Set at: _____ Perforations: **4530** To: **4540**

Tubing Size: **2.375** Weight: _____ Internal Diameter: _____ Set at: _____ 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_s: **3 X .375**

Vertical Depth(H): _____ Pressure Taps: _____ (Meter Run) (Prover) Size: _____

Pressure Buildup: Shut in **JAN 12 2014** at **2 30** (AM) (PM) Taken _____ 19 _____ at _____ (AM) (PM)

Well on Line: Started **JAN 14 2014** at **12 30** (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 ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _f) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _f) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						150					
Flow											

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _s) (F _v) Mcfd	Circs one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times H_m}$	Gravity Factor F _g	Flowing Temperature Factor F _t	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

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

$\frac{(P_o)^2 - (P_w)^2}{(P_o)^2 - (P_o)^2}$	$(P_o)^2 - (P_w)^2$	Choose formula 1 or 2: 1. $P_w^2 - P_o^2$ 2. $P_w^2 - P_o^2$ divided by: $P_w^2 - P_o^2$	LOG of formula 1. or 2. and divide by: $P_w^2 - P_o^2$	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 30991
Checked by

STATE OF KANSAS DEPARTMENT OF REVENUE

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 L WAYNE DAVIS #1 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 30991

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.