

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow
 Deliverability

Test Date:

1-12-16

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 RNG (E/W): 12W Acres Attributed: _____

Field: GROEN DYKE SOUTH Reservoir: MISSISSIPPI Gas Gathering Connection: AMERICAN 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_s: _____

Vertical Depth(H): _____ Pressure Taps: _____ (Meter Run) (Prover) Size: 2"

Pressure Buildup: Shut in 1-9-16 19__ at 1:00 (AM) (PM) Taken _____ 19__ at _____ (AM) (PM)

Well on Line: Started 1-12-16 19__ at 9:00 (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 ₁) or (P ₂)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P ₂)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						130					
Flow											

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _o) (F _o) 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_c - 14.4) + 14.4 = _____ : (P_o)² = 0.207 (P_w)² = _____

(P _c) ² - (P _w) ² or (P _o) ² - (P _w) ²	(P _o) ² - (P _w) ²	Choose formula 1 or 2: 1. $P_c^2 - P_w^2$ 2. $P_o^2 - P_w^2$ divided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide by: $P_c^2 - P_w^2$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG []	Antilog	Open Flow / Deliverability Mcfd
							KCC WICHITA RECEIVED FEB 29 2016

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 12 day of JANUARY 2016, 19__

Witness (if any) _____
 For Commission _____
RED CEDAR OIL LLC For Company
DALE WALKER 30991 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 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: JAN 12 2016

Signature: Dale Waldeen
Title: OPERATOR 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.