

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

Type Test:

(See Instructions on Reverse Side)

Open Flow

Deliverability

Sept. 23, 2013

Test Date:

to Sept. 24, 2013

API No. 15

15-185-00316-0000

Company

D.R Lauck Oil Co. Inc

Lease

Fergus Gas Well

Well Number

1

County

Stafford

Location

NW- NW-SW

Section

23

TWP

24

RNG (E/W)

15W

Acres Attributed

160

Field

Reservoir

Miss.-Kinderhook

Gas Gathering Connection

Lumen Energy Corp.

Completion Date

January, 1956

Plug Back Total Depth

4429'

Packer Set at

no packer

Casing Size

5 1/2"

Weight

14#

Internal Diameter

5"

Set at

4565'

Perforations

4102-4112'

To

4131-4151

Tubing Size

2 3/8"

Weight

4.7#

Internal Diameter

2"

Set at

4184'

Perforations

4169-4172'

To

Type Completion (Describe)

Type Fluid Production

salt water

Pump Unit or Traveling Plunger? Yes / No

pump unit 2"x1 1/2"x10' pump

Producing Thru (Annulus / Tubing)

Annulus

% Carbon Dioxide

% Nitrogen

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

Vertical Depth(H)

Pressure Taps

(Meter Run) (Prover) Size

Pressure Buildup: Shut in

9-23-

20 13 at 12:41

(AM) (PM)

Taken 9-24-

20 13

at 2:00

(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 or Prover Pressure (psig) (P <sub>m</sub> )	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>i</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>i</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in						73	87.4				
Flow											

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>b</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>tt</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>w</sub>)<sup>2</sup> = 0.207 ; (P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</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>w</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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_d^2}$	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 24 day of Sept, 2013

RECEIVED

D.R. Lauck Oil Co. Inc. KANSAS CORPORATION COMMISSION

Witness (if any)

For Commission

*Melvin S. Wilson*  
For Company  
Checked by

OCT 03 2013

CONSERVATION DIVISION  
WICHITA, KS

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.R. Lauck Oil Co. 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 Fergus Gas Well # 1 gas well on the grounds that said well:

NW $\frac{1}{4}$ -23-24-15W  
Stafford Co.  
API-185-00316

(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: Sept. 24, 2013

Signature: Melvin B Urban  
Title: Production Supt.

**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. **KANSAS CORPORATION COMMISSION**

**OCT 03 2013**  
RECEIVED  
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WICHITA, KS