

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

Open Flow
 Deliverability

Test Date: Sept. 23, 2013 to Sept. 24, 2013 API No. 15- 15-047-20,012-0000
 Lease Koelt #1

Company: D.R. Lauck Oil Co. Inc. Massey Gas Well

County: Edwards Location: C-NE 1/4 Section: 9 TWP: 25S RNG (E/W): 16 W Acres Attributed: 160

Field: Wil Reservoir: Mississippi Gas Gathering Connection: Lumen Energy Corp.

Completion Date: October, 1967 Plug Back Total Depth: 4406 Packer Set at: No packer

Casing Size: 5 1/2" Weight: 15 1/2# Internal Diameter: 5" Set at: 4439' Perforations: 4247 To: 4260

Tubing Size: 2 3/8" Weight: 4.7# Internal Diameter: 2" Set at: 4290' Perforations: 4275 To: 4278

Type Completion (Describe): Perfs. Type Fluid Production: Salt water Pump Unit or Traveling Plunger? Yes / No Pumping unit 2"x1 1/2"x10'

Producing Thru (Annulus/Tubing) Annulus: % Carbon Dioxide: % Nitrogen: Gas Gravity - G_a: 0.642

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

Pressure Buildup: Shut in 9-23-2013 at 10:37 (AM) (PM) Taken 9-27-2013 at 11:05 (AM) (PM)

Well on Line: Shut in 20 at (AM) (PM) Taken 20 at (AM) (PM)

OBSERVED SURFACE DATA

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 Pressure (P _w) or (P _i) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in						38	52.4	0		72	
Flow	0.75	12	6	60		14	28.4	0		24	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _b) (F _p) Mcfd	Circle one: Meter Prover Pressure psia	Press Extension $\frac{P_m}{\sqrt{x L_w}}$	Gravity Factor F _g	Flowing Temperature Factor	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
2.74	26.4	12.59	1.2481	1.0000	1.00	43.04		0.64

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_s)² = 0.207

(P_e)² = 2.75 (P_w)² = 0.81 Pd = 45.80% (Pc-14.4)+14.4 = (Pd)² =

$(P_c)^2 - (P_s)^2$ or $(P_e)^2 - (P_d)^2$	$(P_c)^2 - (P_w)^2$	Choose formula 1 or 2: 1. $P_c^2 - P_s^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$	LOG of formula 1 or 2: and divide by: $(P_c^2 - P_w^2)$	Backpressure Curve Slope = "n" or Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
2.54	1.94	1.309	0.117	0.676	0.079	1.20	52

Open Flow 51.63 Mcfd @ 14.65 psia Deliverability Mcf @ 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 24 day of Sept. 2013

D.R. Lauck Oil Co. Inc.

Witness (if any)

For Commission

For Company

Melvin S. Urban
Checked by

RECEIVED
KANSAS CORPORATION COMMISSION

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 Massey Gas Well # 1 gas well on the grounds that said well:

Sec. 9-25S-16W
Edwards Co.
API 15-047-20,012

(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 S 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.