

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test: _____ (See Instructions on Reverse Side)

- Open Flow
 Deliverability

Test Date: 12/15&16, 2015

API No. 15
15-097-21819 - 0000

Company: HERMAN L. LOEB LLC Lease: YOST Well Number: 3-28

County: KIOWA Location: SW-NW NE NW Section: 28 TWP: 27 RNG (E/W): 18W Acres Attributed: _____

Field: EINSEL Reservoir: **Mississippi** Gas Gathering Connection: ONEOK FIELD SVCS

Completion Date: 4/02/2015 Plug Back Total Depth: 4839 Packer Set at: _____

Casing Size: 5.50 Weight: 15.5 Internal Diameter: 4.950 Set at: 4849 Perforations: 4788 To: 4808

Tubing Size: 2.375 Weight: 4.700 Internal Diameter: 1.995 Set at: 4789 Perforations: OPEN To: _____

Type Completion (Describe): SINGLE Type Fluid Production: GAS, OIL Pump Unit or Traveling Plunger?: NO

Producing Thru (Annulus / Tubing): TUBING % Carbon Dioxide: _____ % Nitrogen: _____ Gas Gravity - G_g: _____

Vertical Depth(H): 4798 Pressure Taps: _____ (Meter Run) (Prover) Size: _____

Pressure Buildup: Shut in 12/15 20 15 at _____ (AM) (PM) Taken 12/16 20 15 at _____ (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 Prover Pressure psig. (P _m)	Pressure Differential in Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig.	psia	psig.	psia		
Shut-In						750		600		24	
Flow											

FLOW STREAM ATTRIBUTES

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

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = _____ (P_w)² = _____ P_d = _____ % (P_c - 14.4) + 14.4 = _____ (P_a)² = 0.207
(P_o)² = _____

(P _o) ² - (P _a) ² or (P _c) ² - (P _o) ²	(P _o) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _a 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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2}$	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 31ST day of DECEMBER, 20 15

Received
KANSAS CORPORATION COMMISSION

Witness (if any)

JAN 04 2016

For Company

For Commission

CONSERVATION DIVISION
WICHITA, KS

Checked by

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 HERMAN L. LOEB LLC

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.

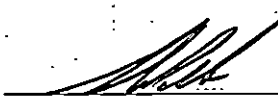
I hereby request a one-year exemption from open flow testing for the YOST 3-28 gas well on the grounds that said well:

(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 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: 12/31/2015

Signature: 

Title: Shane Pelton, Prod Supervisor Herman L Loeb LLC

Received
KANSAS CORPORATION COMMISSION

JAN 04 2016

CONSERVATION DIVISION
WICHITA, KS

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.