

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow
 Deliverability

Test Date:
9/22/15

API No. 15
095-22064 - 0000

Company LARIO OIL & GAS COMPANY		Lease BERGKAMP		Well Number #1-8	
County KINGMAN	Location NW SW SW	Section 8	TWP 28	RNG (E/W) 5W	Acres Attributed
Field BROADWAY		Reservoir MISSISSIPPI	Gas Gathering Connection GAS PRODUCTS & SUPPLY, INC.		
Completion Date 2-19-07		Plug Back Total Depth 4083'	Packer Set at 3731'		
Casing Size 5 1/2"	Weight 15.5	Internal Diameter 4.950"	Set at 468'	Perforations 3771'	To 3775'
Tubing Size 2 3/8"	Weight 4.70#	Internal Diameter 1.995"	Set at 3775'	Perforations 3757'	To 3763'
Type Completion (Describe) SINGLE		Type Fluid Production GASWATER	Pump Unit or Traveling Plunger? Yes / (No) Flow		
Producing Thru (Annulus / Tubing) TUBING		% Carbon Dioxide .085	% Nitrogen 6.696	Gas Gravity - G _g .6839	
Vertical Depth(H) 4281'		Pressure Taps FLANGE		(Meter Run) (Prover) Size 2.067	
Pressure Buildup: Shut in 9-21		20 15 at 9:36	(AM)(PM) Taken 9-22	20 15 at 9:36	(AM)(PM)
Well on Line: Started 9-22		20 15 at 9:36	(AM)(PM) Taken 9-23	20 15 at 9:36	(AM)(PM)

OBSERVED SURFACE DATA

Duration of Shut-in **24** Hours

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 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						158				24	
Flow						60				24	114

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _v) (F _p) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F _g	Flowing Temperature Factor F _{tt}	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						27		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_a)² = 0.207

(P_d)² = _____

(P_c)² = _____ : (P_w)² = _____ : P_d = _____ % (P_c - 14.4) + 14.4 = _____ :

(P _c) ² - (P _a) ² or (P _c) ² - (P _d) ²	(P _c) 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: $P_c^2 - P_w^2$	Backpressure Curve Slope = "n" ----- 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 20th day of November, 20 15.

Received
KANSAS CORPORATION COMMISSION

Witness (if any)

NOV 24 2015

For Commission

CONSERVATION DIVISION
WICHITA, KS

Jay Schweickert
For Company

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 LARIO OIL & GAS COMPANY 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 BERGKAMP #1-8 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: 11/20/15

Signature: 
Title: JAY SCHWEIKERT - OPERATIONS ENGINEER

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.