KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST
(See Instructions on Reverse Side)

Type Test:

    Open Flow

  ✓ Deliverabilty

Test Date: 02/05/2013 - 02/06/2013	API No. 15 15-047-21,023 -0600

Company F.G. Holl Company, L.L.C.	Lease LUNZ "A"	Well Number 3-21

County Edwards	Location NE SWSW	Section 21	TWP 24S	RNG (E/W) 16W	Acres Attributed

Field Embry	Reservoir Mississippi	Gas Gathering Connection Semgas Gathering L.L.C.

Completion Date 03/29/1982	Plug Back Total Depth	Packer Set at

Casing Size 4-1/2"	Weight 10.5#	Internal Diameter	Set at 4426'	Perforations 4288'-4294'	To

Tubing Size 2-3/8"	Weight 4.7#	Internal Diameter	Set at	Perforations	To

Type Completion (Describe) Single (Gas)	Type Fluid Production SW	Pump Unit or Traveling Plunger? Yes / No Pump Unit

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

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

Pressure Buildup: Shut in __02/05/2013__ 19 ___ at __8:00__ (AM) (PM) Taken __02/05/2013__ 19 at __8:00__ (AM) (PM)

Well on Line: Started __02/06/2013__ 19 ___ at __8:00__ (AM) (PM) Taken __02/06/2013__ 19 at __8:00__ (AM) (PM)

OBSERVED SURFACE DATA

Duration of Shut-in __24__ Hours

Static / Dynamic Property	Orifice Size inches	Circle one: Meter or Prover Pressure psig	Pressure Differential in (h) Inches H₂0	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P_w) or (P_t) or (P_c) psig	Casing Wellhead Pressure psia	Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) psig	Tubing Wellhead Pressure psia	Duration (Hours)	Liquid Produced (Barrels)
Shut-In						82		-		24	
Flow											

FLOW STREAM ATTRIBUTES

Plate Coefficient (F_b) (F_p) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\check{s}\ \overline{P_m \times H_w}$	Gravity Factor F_g	Flowing Temperature Factor F_{ft}	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

$(P_d)^2 =$ _____

$(P_c)^2 - (P_a)^2$ 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" -------- 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 __4th__ day of __March__, __2013__

F. G. Holl Company, LLC
For Company

Rebecca George
Checked by

Witness (if any)

For Commission

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 F.G. Holl Company, L.L.C.

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 LUNZ "A" 3-21

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 250 mcf/D

Date: 03/04/2013

Signature: *Rebecca George*

Title: Landman

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.

RECEIVED

MAR 05 2013

KCC WICHITA