Form G-2
July 2014

KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test: *(See Instructions on Reverse Side)*

☐ Open Flow
☐ Deliverabilty

Test Date: 9/22/201

API No. 15: 15-057-20576-00-00

Company	Lease	Well Number
Ritchie Exploration, Inc.	Bonnie Carson	#1

County	Location	Section	TWP	RNG (E/W)	Acres Attributed
Ford	W2-NW-SE	17	27S	23W	

Field	Reservoir	Gas Gathering Connection
	Morrow Sand, Mississippian	Superior Pipeline

Completion Date	Plug Back Total Depth	Packer Set at
3/18/2014	5042	

Casing Size	Weight	Internal Diameter	Set at	Perforations	To
5.5	15.5	5	5072	4932	4898

Tubing Size	Weight	Internal Diameter	Set at	Perforations	To
2.875	6.4	2.594	4917		

Type Completion (Describe)	Type Fluid Production	Pump Unit or Traveling Plunger? Yes / (No)
Work Over Gas	Water	Flowing

Producing Thru (Annulus / Tubing)	% Carbon Dioxide	% Nitrogen	Gas Gravity - G_g
Tubing	.104	19.832	.702

Vertical Depth(H)	Pressure Taps	(Meter Run) (Prover) Size
4915	Flange	3.068

Pressure Buildup: Shut in 9/21 20 15 at 8:30 AM (AM) (PM) Taken _____ 20 ___ at _____ (AM) (PM)

Well on Line: Started 9/22 20 15 at 8:30 AM (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 (Pm)	Pressure Differential in Inches H_2O	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						250	262	90	95		
Flow											

FLOW STREAM ATTRIBUTES

Plate Coeffiecient (F_b) (F_p) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m x h}$	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

(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 2nd day of October, 20 15.

KCC WICHITA
OCT 07 2015
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Witness (if any)

For Commission

For Company: Ritchie Exploration

Checked by

Form G-2
(Rev. 7/03)

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 Ritchie Exploration, 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 Bonnie Carson #1 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: 10/2/2015

KCC WICHITA
OCT 07 2015
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Signature: _____

Title: Production Manager

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.

RITCHIE
EXPLORATION, INC.
Wichita, Kansas

October 2, 2015

Kansas Corporation Commission
Conservation Division
130 S. Market, Suite 2078
Wichita, Kansas 67202
ATTN: Jim Hemmen

Re: #1 Bonnie Carson
Sec. 17-27S-23W
Ford County, Kansas

Mr. Hemmen,

Enclosed please find the 24-hour Shut-in Tests (Form G-2) on the above referenced well. For your convenience, also please find enclosed the KGS production records for the well.

Ritchie Exploration, Inc. would like for this to be held confidential for the maximum allowable time.

If you have any questions or concerns, please feel free to call me at (316) 691-9520. Thank you for your assistance in this matter.

Sincerely,

John Niernberger
Production Manager

Enclosures

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OCT 07 2015
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P.O. Box 783188
Wichita, Kansas 67278-3188

(316) 691-9500
Fax (316) 691-9550
john@ritchie-exp.com

8100 E. 22nd St. N., Bldg. 700
Wichita, Kansas 67226-2328