

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow
 Deliverability

(See Instructions on Reverse Side)

Test Date:
11-27-12

API No. 15
077-21599-00-00

Company Union Valley Petroleum Corporation		Lease Bollman		Well Number 3-4	
County HARPER	Location C SWSW	Section 4	TWP 34S	RNG (E/W) 6W	Acres Attributed 160
Field Anthony		Reservoir Mississippi	Gas Gathering Connection Atlas		
Completion Date 02-12-08		Plug Back Total Depth 4554	Packer Set at none		
Casing Size 4.5	Weight 11.6	Internal Diameter 3.995	Set at 4571	Perforations 4506	To 4514
Tubing Size 2.375	Weight 4.7	Internal Diameter 1.995	Set at 4465	Perforations	To
Type Completion (Describe) single		Type Fluid Production water/oil	Pump Unit or Traveling Plunger? Yes / No pumping unit		
Producing Thru (Annulus / Tubing) annulus		% Carbon Dioxide .1605	% Nitrogen 4.5186	Gas Gravity - G _g .6908	
Vertical Depth(H)		Pressure Taps		(Meter Run) (Prover) Size	

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Pressure Buildup: Shut in **11-27** 20 **12** at **915 am** (AM) (PM) Taken **11-28** 20 **12** at **915** (AM) (PM)
Well on Line: Started **am** 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 or 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 _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							635				
Flow											

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _c) (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 _t	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_w)² = 0.207
(P_d)² = _____

(P _c) ² = _____	(P _w) ² = _____	P _d = _____ %	(P _c - 14.4) + 14.4 = _____	(P _w) ² = 0.207	(P _d) ² = _____		
(P _c) ² - (P _g) 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: $\left[\frac{P_c^2 - P_w^2}{P_c^2 - P_d^2} \right]$	Backpressure Curve Slope = "n" or Assigned Standard Slope	n x LOG $\left[\frac{P_c^2 - P_w^2}{P_c^2 - P_d^2} \right]$	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 12 day of December, 20 12.

Witness (if any) _____
For Company

For Commission _____
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 Union Valley Petroleum Corporation 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.

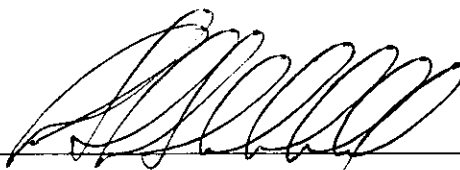
I hereby request a one-year exemption from open flow testing for the Bollman #3-4 gas well on the grounds that said well:

(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: 12-12-12

Signature:  _____
Title: President

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.

95401060 *Ballman 3-4*
 Analysis

Date-Time: 09/23/12 06:50 Analysis Time: 230 Cycle Time: 240
 Stream: 3 Stream 3 Mode: ANLY Cycle Start Time: 06:46
 Analyzer: 187663-5 Strm Seq:1,3,4
 95401060 H2S 1.5
 PSIG 74.6 TEMP 94.5

Component Name	Mole Percent	Gallons/1000 SCF	BTU Gross	Relative Density
C6+ 47/35/17	0.5858	0.2614	30.98	0.0194
PROPANE	3.2008	0.8816	80.72	0.0487
i-BUTANE	0.4366	0.1428	14.23	0.0088
n-BUTANE	1.1856	0.3737	38.77	0.0238
i-PENTANE	0.2912	0.1065	11.68	0.0073
n-PENTANE	0.3982	0.1443	16.00	0.0099
NITROGEN	4.5186	0.0000	0.00	0.0437
METHANE	82.4935	0.0000	835.12	0.4569
CARBON DIOXIDE	0.1605	0.0000	0.00	0.0024
ETHANE	6.7291	1.7992	119.36	0.0699
TOTALS	100.0000	3.7095	1146.86	0.6908

'*' indicates user-defined components

Compressibility Factor (1/Z) @ 14.73000 PSIA & 60.0 DEG.F= 1.00295

Base Pressures	14.73000	
Gross Dry BTU	=	1150.24 Corrected/Z
Gross SAT BTU	=	1130.22 Corrected/Z
Gallons/1000 SCF C2+	=	3.7095
Gallons/1000 SFC C3+	=	1.9103
Gallons/1000 SCF C4+	=	1.0287
Gallons/1000 SCF C5+	=	0.5122
Gallons/1000 SCF C6+	=	0.2614
Real Relative Density Gas	=	0.6926
Unnormalized Mole Percent	=	100.535

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