

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow.
 Deliverability

Test Date:
July 25, 2014

API No. 15
15-199-20333-0000

(See Instructions on Reverse Side)

Company Raven Resources, LLC		Lease Westfield		Well Number #2-36	
County Wallace County	Location NE/4 NE/4	Section 36	TWP 11S	RNG (E/W) 42W	Acres Attributed
Field		Reservoir Niobrara	Gas Gathering Connection Closed Gathering System (West Kansas Pipeline)		
Completion Date 7/2008		Plug Back Total Depth 1143.49'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5	Internal Diameter	Set at 1195.74'	Perforations 926'-966', 972-976'	To 982'-988'
Tubing Size 2 3/8"	Weight 4.7	Internal Diameter	Set at 930.85	Perforations	To
Type Completion (Describe) N2 Frac "Single Gas"		Type Fluid Production Only Gas		Pump Unit or Traveling Plunger? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Producing Thru (Annulus / <input checked="" type="checkbox"/> Tubing)		% Carbon Dioxide	% Nitrogen	Gas Gravity - G _g	
Vertical Depth(H) 1210'		Pressure Taps		(Meter Run) (Prover) Size	
Pressure Buildup: Shut in July 2		20 14 at 9:10	<input checked="" type="checkbox"/> (AM) (PM) Taken July 23	20 14 at 9:10	<input checked="" type="checkbox"/> (AM) (PM)
Well on Line: Started July 23		20 14 at 9:10	<input checked="" type="checkbox"/> (AM) (PM) Taken July 25	20 14 at 9:10	<input checked="" type="checkbox"/> (AM) (PM)

OBSERVED SURFACE DATA

Duration of Shut-in 504 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: <input checked="" type="checkbox"/> 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 _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In	.2500	18.7	0		90	5		5		504	0
Flow	.2500	16.9	3.4		90	2		2		48	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _b) (F _p) Mcfd	Circle one: <input type="checkbox"/> 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_g)² = 0.207
(P_g)² =

(P _c) ² =	(P _w) ² =	P _g = %	(P _c - 14.4) + 14.4 =				
(P _c) ² - (P _g) ² or (P _c) ² - (P _g) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _g ² 2. P _c ² - P _w 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 24 day of September, 20 14.

Witness (if any) _____ RECEIVED _____ For Company
KANSAS CORPORATION COMMISSION

For Commission

Checked by

SEP 29 2014

CONSERVATION DIVISION
WICHITA, KS

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 Raven Resources, 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 Westfield #2-36 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: September 24, 2014

Signature: 
Title: Managing Member, Raven Resources, LLC

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.

RECEIVED
KANSAS CORPORATION COMMISSION
SEP 29 2014
CONSERVATION DIVISION
WICHITA, KS