

# KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow  
 Deliverability

(See Instructions on Reverse Side)

Test Date:  
06/22/2010

API No. 15  
15-119-20759-0003

Company Viking Resources, Inc.		Lease Clawson		Well Number 1-19	
County Meade	Location NW NW SE	Section 19	TWP 32S	RNG (E/W) 28W	Acres Attributed 40
Field Angell		Reservoir Morrow		Gas Gathering Connection Angell Pipeline	
Completion Date 6/27/2005		Plug Back Total Depth 5550		Packer Set at	
Casing Size 5-1/2	Weight	Internal Diameter	Set at 1574	Perforations 5510	To 5515
Tubing Size 2-7/8	Weight	Internal Diameter	Set at	Perforations	To
Type Completion (Describe)		Type Fluid Production		Pump Unit or Traveling Plunger? Yes / No	
Producing Thru (Annulus / Tubing) Tubing		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H)		Pressure Taps		(Meter Run) (Prover) Size	
Pressure Buildup: Shut in 06/22 20 10 at 9:00 (AM) (PM) Taken 20 at (AM) (PM)					
Well on Line: Started 06/23 20 10 at 9:00 (AM) (PM) Taken 20 at (AM) (PM)					

### OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or Prover Pressure psig (P <sub>m</sub> )	Pressure Differential in Inches H <sub>2</sub> O	Flowing Temperature †	Well Head Temperature †	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>i</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>i</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						122		95		24	
Flow											

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>p</sub> ) (F <sub>g</sub> ) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F <sub>g</sub>	Flowing Temperature Factor F <sub>t</sub>	Deviation Factor F <sub>pv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>w</sub>)<sup>2</sup> = 0.207

(P<sub>g</sub>)<sup>2</sup> = \_\_\_\_\_

(P <sub>c</sub> ) <sup>2</sup> = _____	(P <sub>w</sub> ) <sup>2</sup> = _____	P <sub>g</sub> = _____ %	(P <sub>c</sub> - 14.4) + 14.4 = _____	
(P <sub>c</sub> ) <sup>2</sup> - (P <sub>g</sub> ) <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2: 1. P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>g</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	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 28 day of March, 20 11.

\_\_\_\_\_  
Witness (if any)  
For Commission

*She PDR*  
\_\_\_\_\_  
For Company  
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MAR 29 2011  
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 Viling Resources, 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 Clawson 1-19 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: 03/28/2011

Signature: 

Title: Vice 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.

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Wichita, Kansas 67202-4279  
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(316) 262-2502  
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March 1, 2011

Jim Hemmen  
Kansas Corporation Commission  
Conservation Division  
130 S. Market Room 2078  
Wichita, KS 67202-3802

Re: Viking Resources, Inc. Clawson 1-19

Dear Mr. Hemmen:

Viking Resources operates the above captioned well. I have attached a copy of the 2010 production and January 2011. I will file a KCC Form G-2 requesting exemption due to low production, after taking a 24-hour shut-in reading, which I will try to set up within one week. In reading the form and the regulations, I'm a bit unclear about who needs to perform the shut-in test, as far as can I just have my pumper make the observations or does a KCC staff have to witness?

If my reading of the regulations are correct, wells producing below 250 Mcf/Day qualify for an exemption under KAR-82-3-304. The well averaged 29.05 Mcf/Day in 2010, with a monthly average high of 44.5 and a monthly average low of 16.7.

If I have misinterpreted this regulation please let me know.

If you have any questions, please contact me at the above phone, address or email. I will be out of town through March 6, but will be back on March 7.

Regards,



Shawn P. Devlin, Vice President, Viking Resources, Inc.

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<b>Viking Resources, Inc. Clawson Gas Sales</b>			
<b>Month</b>	<b>Sales Mcf</b>	<b>Days</b>	<b>Mcf/D</b>
1/1/2010	1355.00	31	43.70968
2/1/2010	1372.00	28	49
3/1/2010	1379.00	31	44.48387
4/1/2010	500.00	30	16.66667
5/1/2010	770.00	31	24.83871
6/1/2010	538.00	30	17.93333
7/1/2010	769.00	31	24.80645
8/1/2010	820.00	31	26.45161
9/1/2010	786.00	30	26.2
10/1/2010	679.00	31	21.90323
11/1/2010	820.00	30	27.33333
12/1/2010	815.00	31	26.29032
<b>Total</b>	<b>10603</b>	<b>365</b>	<b>29.04932</b>
1/1/2011	580.00	31	18.70968

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