

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

Type Test:

- Open Flow  
 Deliverability

Test Date:  
1-27-12

API No. 15  
15-119-21300 - ○○○○

Company: KEITH F. WALKER OIL & GAS, LLC      Lease: CARSON CITY 20      Well Number: 1

County: MEAD      Location: NW SW      Section: 20      TWP: 31S      RNG (E/W): 30W      Acres Attributed: \_\_\_\_\_

Field: FANGTASTIC      Reservoir: CHESTER      Gas Gathering Connection: DCP MIDSTREAM

Completion Date: 1-9-12      Plug Back Total Depth: 5672      Packer Set at: NONE

Casing Size: 4.5      Weight: 11.6      Internal Diameter: 4.000      Set at: 5714      Perforations: 5433      To: 5543

Tubing Size: 2.375      Weight: 4.7      Internal Diameter: 1.995      Set at: 5429      Perforations: \_\_\_\_\_      To: \_\_\_\_\_

Type Completion (Describe): SINGLE GAS      Type Fluid Production: WATER/OIL      Pump Unit or Traveling Plunger?: NO

Producing Thru (Annulus / Tubing): TUBING      % Carbon Dioxide: 1.584      % Nitrogen: 9.040      Gas Gravity - G<sub>g</sub>: .701

Vertical Depth(H): 5488      Pressure Taps: FLANGE      (Meter Run) (Prover) Size: 3.068"

Pressure Buildup: Shut in 1-23-12 20 at 0845 (AM) (PM) Taken 1-26-12 20 at 0845 (AM) (PM)

Well on Line: Started 1-26-12 20 at 0845 (AM) (PM) Taken 1-27-12 20 at 0845 (AM) (PM)

### OBSERVED SURFACE DATA

Duration of Shut-in 72.0 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (Pm)	Pressure Differential in Inches H <sub>2</sub> O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in						875.7	890.1	883.5	897.9	72.0	
Flow	1.500	62.7	13.4	28	75	607.8	622.2	398.6	413.0	24.0	0

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>v</sub> ) (F <sub>p</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>
11.4128	77.10	32.14	1.1944	1.0323	1.0085	456.1	NONE	0.701

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>c</sub>)<sup>2</sup> = 792.3 :      (P<sub>w</sub>)<sup>2</sup> = 387.1 :      P<sub>g</sub> = 69.9 %      (P<sub>c</sub> - 14.4) + 14.4 = 890.1 :      (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> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>g</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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2}$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG [ ]	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
792.07	405.15	1.955	0.2912	0.921	0.2682	1.8542	845.75

Open Flow 846

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. RECEIVED 27 day of JANUARY, 20 12

Copy to KCC Wichita  
Witness (if any)

FEB 06 2012

Precision Wireline & Testing  
For Company

Copy to KCC Dodge City  
For Commission

KCC WICHITA

Checked by  
Mark Broch

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 \_\_\_\_\_ 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 \_\_\_\_\_ 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: \_\_\_\_\_

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

**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.

- o 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: