

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

Form G-2  
(Rev. 8/08)

Type Test  
 Open Flow  
 Deliverability

Test Date: **3/8/13**

API No. 15- 129 30076 - 0000

Company <b>ANADARKO PETROLEUM CORPORATION</b>		Lease <b>INTERSTATE</b>		Well Number <b>F-2</b>	
County <b>MORTON</b>	Location <b>SW NE NW</b>	Section <b>20</b>	TWP <b>34</b>	RNGE (E/W) <b>43</b>	Acres Attributed <b>0</b>
Field <b>INTERSTATE</b>		Reservoir <b>REDCAVE</b>	Gas Gathering Connection <b>HUGS W</b>		
Completion Date <b>11/05/65</b>		Plug Back Total Depth <b>1238</b>	Packer Set at <b>NA</b>		
Casing Size <b>5.5</b>	Weight <b>14</b>	Internal Diameter <b>4.952</b>	Set at <b>1238</b>	Perforations <b>1174</b>	To <b>1238</b>
Tubing Size <b>1.66</b>	Weight <b>2.4</b>	Internal Diameter <b>1.38</b>	Set at <b>1210</b>	Perforations <b>NA</b>	To <b>NA</b>
Type Completion (Describe) <b>SINGLE GAS</b>		Type Fluid Production <b>NA</b>	Pump Unit or Traveling Plunger? <b>Yes / No</b>		
Producing Thru (Annulus / Casing) <b>CASING</b>		% Carbon Dioxide <b>1.27</b>	% Nitrogen <b>40.59</b>	Gas Gravity - G <sub>g</sub> <b>0.788</b>	
Vertical Depth (H) <b>1206</b>	Pressure Taps <b>FLANGE</b>		(Meter Run) <b>X</b>	(PROVER) <b></b>	Size <b>4</b>
Pressure Buildup: Well on Line:	Shut in <b>3/7/13</b> Started _____	<b>9:00 am</b> (AM)(PM)	Taken <b>3/8/13</b> Taken _____	<b>9:00 am</b> (AM)(PM)	(AM)(PM)

**OBSERVED SURFACE DATA**

Static / Dynamic Property	Orifice Size inches	Circle One: Meter or Prover Pressure psig	Pressure Differential in (h) Inches H <sub>2</sub> O	Flowing Temperature t	Well Head Temperature t	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						<b>42</b>	<b>56.4</b>			<b>24</b>	
Flow	<b>1.000</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>60</b>	<b>NA</b>	<b>0</b>			<b>0</b>	<b>0</b>

**FLOW STREAM ATTRIBUTES**

Plate Coefficient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd	Circle One: Meter or Prover Pressure psia	Pressure Extension Sqrt ((P <sub>m</sub> )(H <sub>w</sub> ))	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>
<b>4.874</b>	<b>14.4</b>	<b>0</b>	<b>1.127</b>	<b>1.063</b>	<b>1.000</b>	<b>0</b>	<b>0</b>	<b>0.000</b>

**(OPEN FLOW) (DELIVERABILITY) CALCULATIONS**

(P<sub>a</sub>)<sup>2</sup>= 3.181      (P<sub>w</sub>)<sup>2</sup>= 0      P<sub>c</sub>=      %      (P<sub>c</sub>-14.4)+14.4=           (P<sub>w</sub>)<sup>2</sup>=0.207      (P<sub>a</sub>)<sup>2</sup>=     

(P <sub>a</sub> ) <sup>2</sup> -(P <sub>w</sub> ) <sup>2</sup> or (P <sub>a</sub> ) <sup>2</sup> -(P <sub>d</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>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> -P <sub>d</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. (P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup> ) and divide by:	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG ( )	Antilog	Open Flow Deliverability Equals R x Antilog Mcfd
<b>2.974</b>	<b>3.181</b>	<b>0.935</b>	<b>-0.029</b>	<b>0.845</b>	<b>-0.025</b>	<b>0.945</b>	<b>0</b>

Open Flow

Deliverability

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 8th day of March 2013.

Witness (if any)

**Thomas L. Walsh**

For Company

For Commission

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Checked by

**APR 18 2013**

CONSERVATION DIVISION  
WICHITA, KS

I declare under penalty or perjury under the laws of the state of Kansas that I am authorized to file this form on behalf of the operator Anadarko and that the foregoing information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon gas production records and records of equipment installation and/or of type completion or upon use of the gas well herein named.

I hereby request a permanent exemption from open flow testing for the Interstate F-2 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 incapable of producing at a daily rate in excess of 150 mcf/D

Date: 16-Apr-2013

Signature: Kristi Webb  
 Title: Production Engineer.

**Instructions** All active gas wells must have at least one original G-2 form on file with the conservation division. If a gas well meets 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 obtain a testing exemption.

At some point during the succeeding calendar year, wellhead shut-in pressure shall be 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.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than thirty (30) days after the taking of the pressure reading. The form must be signed and dated on the front side as though it was a verified report of test results.

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**WICHITA, KS**