

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

Form G-2  
(Rev. 8/06)

Type Test

Open Flow  
 Deliverability

(See Instructions of Reverse Side)

Test Date: **03/08/12** API No. 15- 129 20473 - 00-00

|  |  |                                      |   |  |   |
|--|--|--------------------------------------|---|--|---|
| Company<br><b>ANADARKO PETROLEUM CORPORATION</b>   |  | Lease<br><b>INTERSTATE</b>           |   | Well Number<br><b>14-21</b>                  |   |
| County<br><b>MORTON</b>                            | Location<br><b>NWSEW</b>                     | Section<br><b>21</b>                 | TWP<br><b>34</b>                            | RNGE (E/W)<br><b>43</b>                      | Acres Attributed<br><b>0</b>                      |
| Field<br><b>INTERSTATE</b>                         |  | Reservoir<br><b>REDCAVE</b>          | Gas Gathering Connection<br><b>HUGS W</b>   |  |   |
| Completion Date<br><b>12/12/80</b>                 |  | Plug Back Total Depth<br><b>1332</b> | Packer Set at<br><b>NA</b>                  |  |   |
| Casing Size<br><b>4.5</b>                          | Weight<br><b>10.5</b>                        | Internal Diameter<br><b>4.052</b>    | Set at<br><b>1332</b>                       | Perforations<br><b>1181</b>                  | To<br><b>1215</b>                                 |
| Tubing Size<br><b>2.063</b>                        | Weight<br><b>3.3</b>                         | Internal Diameter<br><b>1.751</b>    | Set at<br><b>1103</b>                       | Perforations<br><b>NA</b>                    | To<br><b>NA</b>                                   |
| Type Completion (Describe)<br><b>SINGLE GAS</b>    |  | Type Fluid Production<br><b>NA</b>   | Pump Unit or Traveling Plunger?<br><b>X</b> |  | Yes / No<br><b>Yes</b>                            |
| Producing Thru (Annulus / Casing)<br><b>CASING</b> |  | % Carbon Dioxide<br><b>1.27</b>      | % Nitrogen<br><b>39.64</b>                  | Gas Gravity - G <sub>g</sub><br><b>0.802</b> |   |
| Vertical Depth (H)<br><b>1198</b>                  |  | Pressure Taps<br><b>FLANGE</b>       | (Meter Run)<br><b>X</b>                     | (PROVER)<br><b>X</b>                         | Size<br><b>3</b>                                  |
| Pressure Buildup:<br>Well on Line:                 | Shut in <u>03/07/12</u><br>Started <u>NA</u> | 2000 at 9:15am<br>2000 at            | (AM)(PM)<br>(AM)(PM)                        | Taken <u>03/08/12</u><br>Taken <u>NA</u>     | 2000 at 9:15am<br>2000 at<br>(AM)(PM)<br>(AM)(PM) |

**OBSERVED SURFACE DATA**

Duration of Shut-in **24 Hours**

| 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>e</sub> ) |      | Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>i</sub> ) or (P <sub>e</sub> ) |      | Duration (Hours) | Liquid Produced (Barrels) |
|---------------------------|---------------------|---|--|-----------------------|-------------------------|--|------|--|------|------------------|---------------------------|
|                           |                     |   |  |                       |                         | psig   | psia | psig   | psia |                  |                           |
| Shut-In                   |                     |   |  |                       |                         | 1.5  | 15.9 |  |      | 24               |                           |
| Flow                      | 0.750               | NA  | NA   | NA                    | 60                      | NA   | 0    |  |      | NA               | 0                         |

**FLOW STREAM ATTRIBUTES**

| Plate Coefficient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd | Circle One: Meter or Prover Pressure psia | Pressure Extension Sqrt ((Pm)(Hw)) | 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> |
|--|---|------------------------------------|-------------------------------|---|----------------------------------|-----------------------|--------------------------|--------------------------------------|
| 2.74   | 14.4                                      | 0                                  | 1.117                         | 1.063                                     | 1.000                            | 0                     | 0                        | 0.000                                |

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

(P<sub>d</sub>)<sup>2</sup> = 0.253      (P<sub>w</sub>)<sup>2</sup> = 0      P<sub>d</sub> = \_\_\_\_\_ %      (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_      (P<sub>w</sub>)<sup>2</sup> = 0.207  
(P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

| (P <sub>d</sub> ) <sup>2</sup> - (P <sub>a</sub> ) <sup>2</sup> or (P <sub>d</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> | (P <sub>d</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> | Choose formula 1 or 2:<br>1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup><br>2. P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup><br>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 |
|--|---|--|---|---|------------|---------|--|
| 0.046  | 0.253   | 0.182  | -0.74   | 0.850   | -0.629     | 0.235   | 0  |

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 2012

Witness (if any)

Thomas L. Walsh

For Company

For Commission

RECEIVED

JUL 23 2012

KCC WICHITA

Checked by

RECEIVED

Form G-2  
(Rev 7/03)

JUL 23 2012

KCC WICHITA

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 Anadarko 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 Interstate 14-21 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: 07/23/12

Signature: [Handwritten Signature]

Title: Production Engineer

**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