

KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Form G-2
 (Rev. 8/98)

Type Test

- Open Flow
 Deliverability

(See Instructions of Reverse Side)

Test Date: **03/03/11**

API No. 15- 129 20472 - **0600**

| | | | | | |
|--|--|--------------------------------------|--|--|---|
| Company ANADARKO PETROLEUM CORPORATION | | Lease INTERSTATE | | Well Number 13-21 | |
| County MORTON | Location SE NW SE | Section 21 | TWP 34 | RNGE (E/W) 43 | Acres Attributed 0 |
| Field INTERSTATE | | Reservoir REDCAVE | Gas Gathering Connection HUGS W | | |
| Completion Date 11/11/80 | | Plug Back Total Depth 1265 | Packer Set at NA | | |
| Casing Size 4.5 | Weight 10.5 | Internal Diameter 4.052 | Set at 1265 | Perforations 1188 | To 1203 |
| Tubing Size 2.375 | Weight 4.7 | Internal Diameter 1.995 | Set at 1202 | Perforations NA | To NA |
| Type Completion (Describe) SINGLE GAS | | Type Fluid Production NA | Pump Unit or Traveling Plunger? NA | Yes / No NA | |
| Producing Thru (Annulus / Casing) CASING | | % Carbon Dioxide 1.27 | % Nitrogen 41.17 | Gas Gravity - G _g 0.767 | |
| Vertical Depth (H) 1196 | Pressure Taps FLANGE | | (Meter Run) X | (PROVER) NA | Size 3 |
| Pressure Buildup: Well on Line: | Shut in <u>03/02/11</u> Started <u>NA</u> | 2000 at 9:30am 2000 at | (AM)(PM) (AM)(PM) | Taken <u>03/03/11</u> Taken <u>NA</u> | 2000 at 9:30am 2000 at (AM)(PM) (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 ₂ O | Flowing Temperature t | Well Head Temperature t | Casing Wellhead Pressure (P _w) or (P _i) or (P _c) | | Tubing Wellhead Pressure (P _w) or (P _i) or (P _c) | | Duration (Hours) | Liquid Produced (Barrels) |
|---------------------------|---------------------|---|--|-----------------------|-------------------------|--|------|--|------|------------------|---------------------------|
| | | | | | | psig | psia | psig | psia | | |
| Shut-In | | | | | | 48 | 62.4 | | | 24 | |
| Flow | 0.500 | NA | NA | NA | 60 | NA | 0 | | | NA | 0 |

FLOW STREAM ATTRIBUTES

| Plate Coefficient (F _b) (F _p) Mcfd | Circle One: Meter or Prover Pressure psia | Pressure Extension Sqrt ((P _m)(Hw)) | Gravity Factor F _g | Flowing Temperature Factor F _t | Deviation Factor F _{pv} | Metered Flow R (Mcf/d) | GOR (Cubic Feet/ Barrel) | Flowing Fluid Gravity G _m |
|--|---|---|-------------------------------|---|----------------------------------|------------------------|--------------------------|--------------------------------------|
| 1.214 | 14.4 | 0 | 1.142 | 1.063 | 1.000 | 0 | 0 | 0.000 |

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)²= 3.894 (P_w)²= 0 P_c= _____ % (P_c-14.4)+14.4= _____ (P_w)²=0.207
 (P_d)²= _____

| (P _c) ² -(P _d) ² or (P _d) ² -(P _w) ² | Choose formula 1 or 2: 1. P _c ² -P _d ² 2. P _c ² -P _w ² divided by P _c ² -P _w ² | LOG of formula 1. or 2. (P _c ² -P _w ²) and divide by: | Backpressure Curve Slope = "n" _____ or _____ Assigned by Standard Slope | n x LOG () | Antilog | Open Flow Deliverability Equals R x Antilog Mcfd |
|--|---|--|--|-------------|---------|--|
| 3.687 | 0.947 | -0.024 | 0.850 | -0.020 | 0.954 | 0 |

Open Flow **0 Mcfd @ 14.65 psia** **Deliverability** **Mcf/d @ 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 3rd day of March 2011

 Witness (if any)

Thomas L. Walsh
 For Company

 For Commission

 Checked by

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DEC 19 2011
KCC WICHITA

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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 Petroleum Corporation 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 13-21 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: OCTOBER 31, 2011

Signature: *Kristi Howard*
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 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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