

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow
 Deliverability

Test Date: 04/01/2011 to 04/05/2011

API No. 15
1517520808 —

| | | | | | |
|--|-------------------|--------------------------------|-----------------|--|-------------------------|
| Company C & R Petroleum Co. | | Lease Sandifer | | Well Number 1 | |
| County Seward | Location NE SW | Section 30 | TWP 34S | RNG (E/W) 34W | Acres Attributed 320 |
| Field Kinney | | Reservoir Morrow | | Gas Gathering Connection Timberline Gathering | |
| Completion Date 07/27/1987 | | Plug Back Total Depth 6380' | | Packer Set at None | |
| Casing Size 4 1/2 | Weight 11.6# | Internal Diameter 4" | Set at 6739' | Perforations 6272' | To 6294' |
| Tubing Size 2 3/8 | Weight 4.7# | Internal Diameter 2" | Set at 6268' | Perforations | To |
| Type Completion (Describe) Single Gas | | Type Fluid Production Water | | Pump Unit or Traveling Plunger? Yes / No Pumping Unit | |
| Producing Thru (Annulus / Tubing) Annulus | | % Carbon Dioxide .34 | | % Nitrogen 4.94 | |
| Vertical Depth(H) 6268' | | Pressure Taps Flange | | (Meter Run) (Prover) Size 3 X .375 | |
| Pressure Buildup: Shut in | | 04/01 | 20 11 | at 5:25 | (AM) (PM) Taken |
| Well on Line: Started | | 04/04 | 20 11 | at 5:30 | (AM) (PM) Taken |
| | | | | 04/05 | 20 14 at 5:30 (AM) (PM) |

OBSERVED SURFACE DATA

Duration of Shut-in _____ Hours

| Static / Dynamic Property | Orifice Size (inches) | Circle one: Meter Prover Pressure psig (Pm) | Pressure Differential in Inches H ₂ O | Flowing Temperature t | Well Head Temperature t | Casing Wellhead Pressure (P _w) or (P ₁) or (P _c) | | Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c) | | Duration (Hours) | Liquid Produced (Barrels) |
|---------------------------|-----------------------|--|--|-----------------------|-------------------------|--|-------|--|------|------------------|---------------------------|
| | | | | | | psig | psia | psig | psia | | |
| Shut-In | | | | | | 120 | 134.4 | | | 72 | |
| Flow | .375 | 8 | 40 | 60 | | 56 | 70.4 | | | 24 | |

FLOW STREAM ATTRIBUTES

| Plate Coefficient (F _p) (F _p) Mcfd | Circle one: Meter or Prover Pressure psia | Press Extension $\sqrt{P_m \times h}$ | Gravity Factor F _g | Flowing Temperature Factor F _{tt} | Deviation Factor F _{ps} | Metered Flow R (Mcfd) | GOR (Cubic Feet/Barrel) | Flowing Fluid Gravity G _m |
|--|--|---------------------------------------|-------------------------------|--|----------------------------------|-----------------------|-------------------------|--------------------------------------|
| .685 | 22.4 | 29.9 | 1.195 | 1.00 | 1.0055 | 24.6 | | |

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 18.1 ; (P_w)² = 5.0 ; P_d = _____ % (P_c - 14.4) + 14.4 = _____ ; (P_w)² = 0.207 ; (P_d)² = _____

| (P _c) ² - (P _w) ² or (P _o) ² - (P _d) ² | (P _c) ² - (P _w) ² | Choose formula 1 or 2: 1. P _c ² - P _w ² 2. P _c ² - P _d ² divided by: P _c ² - P _w ² | LOG of formula 1. or 2. and divide by: $\left[\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2} \right]$ | Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope | n x LOG $\left[\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2} \right]$ | Antilog | Open Flow Deliverability Equals R x Antilog (Mcfd) |
|--|---|---|---|---|--|---------|--|
| 17.9 | 13.1 | 1.366 | .136 | .628 | .085 | 1.217 | 30 |

Open Flow 19 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 7th day of April, 20 11.

Witness (if any)

For Commission

C & R Petroleum Co.
Curtis F. Covington
Checked by
Curtis F. Covington, Owner

RECEIVED
APR 13 2011
KCC WICHITA