# KANSAS CORPORATION COMMISSION

Form G-2 (Rev. 7/03)

## ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test: Workover

[X] Open Flow

[X] Deliverability

Test Date: 8/26/2011

API No. 15 - 15-081-21633-00-02

| Company | Lease | Well Number |
|---|---|---|
| ExxonMobil Oil Corporation | Roy Unit #1 (EOG) | 3-18 |

| County | Location | Section | TWP | RNG (E/W) | Acres Attributed |
|---|---|---|---|---|---|
| Haskell | SW NW NW | 18 | 28S | 33W | 640 |

| Field | Reservoir | Gas Gathering Connection |
|---|---|---|
| Panoma | Chase/OG | Oneok Field Services |

| Completion Date | Plug Back Total Depth | Packer Set at |
|---|---|---|
| 7/28/2011 | 3200 | None |

| Casing Size | Weight | Internal Diameter | Set at | Perforations | To |
|---|---|---|---|---|---|
| 5.5 | 14 | 5.012 | 3314 | 2624 | 2812 |

| Tubing Size | Weight | Internal Diameter | Set at | Perforations | To |
|---|---|---|---|---|---|
| 2 3/8 | 4.70 | 1.995 | 2986 | None | None |

| Type Completion (Describe) | Type Fluid Production | Pump Unit or Traveling Plunger? |
|---|---|---|
| Workover Gas Re-perf. | Saltwater | X Yes / No |

| Producing Thru (Annulus / Tubing) | % Carbon Dioxide | % Nitrogen | Gas Gravity-$G_g$ |
|---|---|---|---|
| Annulus | 0.0470 | 11.401 | .710 |

| Vertical Depth (H) | Pressure Taps | (Meter Run) (Prover) Size |
|---|---|---|
| 5800 | Flange | 3.068 |

Pressure Buildup: Shut in Aug-26 20 11 at 2:00 PM taken Aug-29 20 11 at 2:00 PM

Well on Line: Started Aug-29 20 11 at 2:00 PM taken Aug-30 20 11 at 2:00 PM

### OBSERVED SURFACE DATA

Duration of Shut-in 72 Hours

| Static/ Dynamic Property | Orifice Size inches | Circle One Meter or Prover Pressure psig | Pressure Differential in (h) inches H O | Flowing Temperature t | Well Head Temperature t | Casing Wellhead Pressure ($P_w$ or ($P_t$)($P_c$) psig | Casing Wellhead Pressure psia | Tubing Wellhead Pressure ($P_w$ or ($P_t$)($P_c$) psig | Tubing Wellhead Pressure psia | Duration (Hours) | Liquid Produced (Barrels) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Shut-in | | | | | | 47.7 | 62.1 | | 14.4 | 72 | |
| Flow | 1.250 | 15.0 | 8.8 | | | 15.0 | 29.4 | | 14.4 | | |

### FLOW STREAM ATTRIBUTES

| Plate Coefficient ($F_b$)($F_p$) Mcfd | Circle One Meter or Prover Pressure psig | Press Extension $\sqrt{P_m x h_w}$ | Gravity Factor F g | Flowing Temperature Factor $F_{ft}$ | Deviation Factor $F_{pv}$ | Metered Flow R (Mcfd) | GOR (Cubic Feet/ Barrel) | Flowing Fluid Gravity $G_m$ |
|---|---|---|---|---|---|---|---|---|
| 7.771 | 29.4 | 87.2144942 | | | | 110.4 | | |

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

$(P_c)^2$ = 3856.41 ; $(P_w)^2$ = 864.36 ; $P_d$ = 14.4 % ($P_c$ - 14.4) + 14.4 = ; $(P_a)^2$ = 0.207 $(P_d)^2$ = 207

| $(P_c)^2 (P_a)^2$ or $(P_c)^2 (P_d)^2$ | $(Rc)^2 - (P_w)^2$ | Choose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$ | LOG of formula 1, or 2 and divide by: $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^2$ | Backpressure Curve Slope = "n" or Assigned Standard Slope | n x LOG | Antilog | Open Flow Deliverability Equals R x Antilog Mcfd |
|---|---|---|---|---|---|---|---|
| 3649.41 | 2992.05 | 1.219702211 | 0.08625381 | 0.85 | 0.07331574 | 1.18390196 | 0.11109736 |
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Open Flow 130.7027763 Mcfd @ 14.65 psia Deliverability 130.7027763 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 8th day of November, 2011.

RECEIVED
NOV 09 2011
KCC WICHITA

Witness (if any)

Chris Broughton
For Company

For Commission

Checked by