# KANSAS CORPORATION COMMISSION
## ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST
(See Instructions on Reverse Side)

**Type Test:**
- [✓] Open Flow
- [✓] Deliverabilty

| Test Date: 5/13 to 5/14/13 | API No. 15  069-20341-00-00 |

| Company  Falcon Exploration, Inc | Lease  John Koehn | Well Number  1-18 |
|---|---|---|

| County  Gray | Location  S/2SWNWSE | Section  18 | TWP  28S | RNG (E/W)  29W | Acres Attributed |
|---|---|---|---|---|---|

| Field  WC | Reservoir  Stotler Lime | Gas Gathering Connection  Oneok |
|---|---|---|

| Completion Date  12/14/11 | Plug Back Total Depth  3541 | Packer Set at  none |
|---|---|---|

| Casing Size  4.5 | Weight | Internal Diameter | Set at  3652 | Perforations  3523 | To  3529 |
|---|---|---|---|---|---|

| Tubing Size  2.375 | Weight | Internal Diameter | Set at  3513 | Perforations | To |
|---|---|---|---|---|---|

| Type Completion (Describe)  single | Type Fluid Production  SW | Pump Unit or Traveling Plunger?  Yes / No  no – Flowing |
|---|---|---|

| Producing Thru (Annulus / Tubing)  Tubing | % Carbon Dioxide  .02 | % Nitrogen  33.84 | Gas Gravity - $G_g$  .749 |
|---|---|---|---|

| Vertical Depth(H) | Pressure Taps  flange | (Meter Run) (Prover) Size  2" |
|---|---|---|

**Pressure Buildup:** Shut in 5/10 20 13 at 10:00 am (AM) (PM) Taken 5/13 20 13 at 10:00 am (AM) (PM)

**Well on Line:** Started 5/13 20 13 at 10:15 am (AM) (PM) Taken 5/14 20 13 at 11:00 am (AM) (PM)

## OBSERVED SURFACE DATA
Duration of Shut-in 72 Hours

| Static / Dynamic Property | Orifice Size (inches) | Circle one: Meter Prover Pressure psig (Pm) | Pressure Differential in Inches $H_2O$ | Flowing Temperature t | Well Head Temperature t | Casing Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$ psig | psia | Tubing Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$ psig | psia | Duration (Hours) | Liquid Produced (Barrels) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Shut-In | | | | | | 598 | 612.4 | 598 | 612.4 | 72 | |
| Flow | .750 | 73 | 17.3 | 83 | | 463 | 477.4 | 443 | 457.4 | 24.75 | |

## FLOW STREAM ATTRIBUTES

| Plate Coefficient $(F_b)$ $(F_p)$ Mcfd | Circle one: Meter or Prover Pressure psia | Press Extension $\sqrt{P_m \times h}$ | Gravity Factor $F_g$ | Flowing Temperature Factor $F_{ft}$ | Deviation Factor $F_{pv}$ | Metered Flow R (Mcfd) | GOR (Cubic Feet/ Barrel) | Flowing Fluid Gravity $G_m$ |
|---|---|---|---|---|---|---|---|---|
| 2.779 | 87.4 | 38.88 | 1.155 | .9786 | ———— | 122 | | .749 |

## (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

$(P_c)^2 =$ 375.033 : $(P_w)^2 =$ 227.910 : $P_d =$ ___ % $(P_c - 14.4) + 14.4 =$ ___ : $(P_a)^2 =$ 0.207  $(P_d)^2 =$ ___

| $(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$ | $(P_c)^2 - (P_w)^2$ | 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: $P_c^2 - P_w^2$ | Backpressure Curve Slope = "n" ----or---- Assigned Standard Slope | n x LOG | Antilog | Open Flow Deliverability Equals R x Antilog (Mcfd) |
|---|---|---|---|---|---|---|---|
| 374.826 | 147.123 | 2.547 | .4060 | .831 | .3373 | 2.17 | 264 |
| | | | | | | | |

Open Flow 264 Mcfd @ 14.65 psia X .50 = Deliverability 132 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 29th day of May , 20 13 .

Witness (if any)   For Company