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

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

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

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

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

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

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

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

| Vertical Depth(H) | Pressure Taps | (Meter Run) (Prover) Size |
|---|---|---|
| | flange | 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 Coeffiecient $(F_b)$ $(F_p)$ 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)

_(signature)_ For Company