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

Type Test:

[✓] Open Flow

[✓] Deliverabilty

Test Date: 9/12 to 9/13/13

API No. 15 095-22,239-00-00

| Company Wildcat Oil & Gas, LLC | Lease Crane B | Well Number 3 |
|---|---|---|

| County Kingman | Location NESWNWNW | Section 27 | TWP 30S | RNG (E/W) 06W | Acres Attributed |
|---|---|---|---|---|---|

| Field | Reservoir Miss | Gas Gathering Connection Oneok |
|---|---|---|

| Completion Date 3/12/12 | Plug Back Total Depth | Packer Set at none |
|---|---|---|

| Casing Size 4.5 | Weight | Internal Diameter | Set at 4500 | Perforations 4111 | To 4120 |
|---|---|---|---|---|---|

| Tubing Size 2.375 | Weight | Internal Diameter | Set at 4109 | Perforations | To |
|---|---|---|---|---|---|

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

| Producing Thru (Annulus / Tubing) Annulus | % Carbon Dioxide .146 | % Nitrogen 11.023 | Gas Gravity - $G_g$ .725 |
|---|---|---|---|

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

Pressure Buildup: Shut in 9/09 20 13 at 11:00 am (AM) (PM) Taken 9/12 20 13 at 11:00 am (AM) (PM)

Well on Line: Started 9/12 20 13 at 11:00 am (AM) (PM) Taken 9/13 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 H₂0 | Flowing Temperature t | Well Head Temperature t | Casing Wellhead Pressure ($P_w$) or ($P_t$) or ($P_c$) psig | Casing psia | Tubing Wellhead Pressure ($P_w$) or ($P_t$) or ($P_c$) psig | Tubing psia | Duration (Hours) | Liquid Produced (Barrels) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Shut-In | | | | | | 404.4 | 418.8 | | | 72 | |
| Flow | .750 | 71 | .7 | 70 | | 82.1 | 96.5 | | | 24 | |

### 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 | 85.4 | 7.73 | 1.174 | .9905 | ------------ | 25 | | .725 |

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS
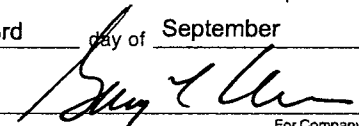
$(P_c)^2 =$ 175.393 :     $(P_w)^2 =$ 9.312 :     $P_d =$ _____ %     $(P_c - 14.4) + 14.4 =$ _____ :

$(P_a)^2 =$ 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 $P_c^2 - P_w^2$ | Antilog | Open Flow Deliverability Equals R x Antilog (Mcfd) |
|---|---|---|---|---|---|---|---|
| 175.186 | 166.081 | 1.055 | .0232 | .850 | .0197 | 1.04 | 26 |
| | | | | assigned | | | |

Open Flow 26     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 23rd day of September , 20 13 .

_____
Witness (if any)

_____
For Company

KCC WICHITA

SEP 26 2013

RECEIVED