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

Type Test:

☐ Open Flow

☐ Deliverabilty

Test Date: 7/28/2013

API No. 15  15-055-21570-00-00

| Company | Lease | Well Number |
|---|---|---|
| HERMAN L. LOEB LLC | HICKS | A2 |

| County | Location | Section | TWP | RNG (E/W) | Acres Attributed |
|---|---|---|---|---|---|
| FINNEY | W/2 E/2 NW/4 | 19 | 25S | 31W | |

| Field | Reservoir | Gas Gathering Connection |
|---|---|---|
| HUGOTON | HER/KRI/WINS | ONEOK FIELD SVCS. |

| Completion Date | Plug Back Total Depth | Packer Set at |
|---|---|---|
| 6/4/1997 | 2710 | NONE |

| Casing Size | Weight | Internal Diameter | Set at | Perforations | To |
|---|---|---|---|---|---|
| 4.500 | 10.50 | 3.927 | 2709 | 2592 | 2675 |

| Tubing Size | Weight | Internal Diameter | Set at | Perforations | To |
|---|---|---|---|---|---|
| 2.375 | 4.7 | 1.995 | 2684 | OPEN | |

| Type Completion (Describe) | Type Fluid Production | Pump Unit or Traveling Plunger?   Yes / No |
|---|---|---|
| SINGLE | GAS,WATER | PUMPING |

| Producing Thru (Annulus / Tubing) | % Carbon Dioxide | % Nitrogen | Gas Gravity - $G_g$ |
|---|---|---|---|
| ANNULUS | | | |

| Vertical Depth(H) | Pressure Taps | (Meter Run) (Prover) Size |
|---|---|---|
| 2634 | | |

Pressure Buildup:  Shut in  7/28  20 13  at _____ (AM) (PM)  Taken 7/30  20 13  at _____ (AM) (PM)

Well on Line:  Started _____ 20 ___ at _____ (AM) (PM)  Taken _____ 20 ___ at _____ (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 $H_2O$ | Flowing Temperature t | Well Head Temperature t | Casing Wellhead Pressure ($P_w$) or ($P_t$) or ($P_c$) psig | Casing Wellhead Pressure ($P_w$) or ($P_t$) or ($P_c$) psia | Tubing Wellhead Pressure ($P_w$) or ($P_t$) or ($P_c$) psig | Tubing Wellhead Pressure ($P_w$) or ($P_t$) or ($P_c$) psia | Duration (Hours) | Liquid Produced (Barrels) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Shut-In | | | | | | 57 | | | | 48 | |
| Flow | | | | | | | | | | | |

## 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 $F_{tf}$ | Deviation Factor $F_{pv}$ | Metered Flow R (Mcfd) | GOR (Cubic Feet/ Barrel) | Flowing Fluid Gravity $G_m$ |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

## (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

$(P_c)^2 =$ _____ :  $(P_w)^2 =$ _____ :  $P_d =$ _____ %  $(P_c - 14.4) + 14.4 =$ _____ :

$(P_a)^2 = 0.207$

$(P_d)^2 =$ _____

| $(P_c)^2 - (P_a)^2$ 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 $[\quad]$ | Antilog | Open Flow Deliverability Equals R x Antilog (Mcfd) |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |

Open Flow _____ 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  8TH  day of  AUGUST , 20 13 .

_____
Witness (if any)

_____
For Commission

_____
For Company

_____
Checked by