# KANSAS CORPORATION COMMISSION
# ONE POINT STABLIZED OPEN FLOW OR DELIVERABILITY TEST

FORM G-2
(Rev.8/98)

TYPE TEST:
☒ Open Flow
☒ Deliverability

TEST DATE: 12/8/2010 API No. 15-081-21919-00-00

| Company | Lease | Well Number |
|---|---|---|
| Strata Exploration | Stapleton | 3-10 |

| County | Location | Section | TWP | RNG(E/W) | Acres Attributed |
|---|---|---|---|---|---|
| Haskell | 2388'FSL 363'FE | 10 | 30s | 32w | 160 |

| Field | Reservoir | Gas Gathering Connection |
|---|---|---|
| Unnamed | Chester | Regency |

| Completion Date | Plug Back Total Depth | Packer Set at |
|---|---|---|
| 10/8/10 | 5648 | none |

| Casing Size | Weight | Internal Diameter | Set at | Perforations | To |
|---|---|---|---|---|---|
| 5.500 | 15.500 | 4.950 | 5648 | 5360 | 5381 |

| Tubing Size | Weight | Internal Diameter | Set at | Perforations | To |
|---|---|---|---|---|---|
| 2.375 | 4.700 | 1.995 | 5357 | | |

| Type Completion (Describe) | Type Fluid Production | Pump Unit or Traveling Plunger? |
|---|---|---|
| Natural | none | no |

| Producing Thru(Annulus/Tubing) | % Carbon Dioxide | % Nitrogen | Gas Gravity- Gg |
|---|---|---|---|
| tubing | 0.209 | 11.669 | 0.713 |

| Vertical Depth (H) | Pressure Taps | Meter Run Size |
|---|---|---|
| 5370 | flange | 3.071 |

| | | | |
|---|---|---|---|
| Pressure Buildup: Shut in | 12/4/2010@1100 | TAKEN | 12/7/2010@1315 |
| Well on Line: Started | 12/7/2010@1315 | TAKEN | 12/8/2010@1400 |

## OBSERVED SURFACE DATA

| Static/ Dynamic Property | Orifice Size in. | Meter Pressure psig | Pressure Diff. In. H $_2$O | Flowing Temp. t. | WellHead Temp. t. | Casing WellHead Press. ($P_w$) ($P_t$) ($P_c$) psig | Casing WellHead Press. psia | Tubing WellHead Press. ($P_w$) ($P_t$) ($P_c$) psig | Tubing WellHead Press. psia | Duration (Hours) | Liquid Prod. Barrels |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Shut-in | | | | | | 510 | 524 | 510 | 524 | 74.2 | |
| Flow | 1.750 | 77.6 | 140.60 | 72 | | 460 | 474 | 332 | 346 | 24.7 | |

## FLOW STREAM ATTRIBUTES

| COEFFICIENT ($F_b$) Mcfd | (METER) PRESSURE psia | EXTENSION $\sqrt{P_m \times H_w}$ | GRAVITY FACTOR Fg | FLOWING TEMP FACTOR Ft | DEVIATION FACTOR Fpv | RATE OF FLOW R Mcfd | GOR | $G_m$ |
|---|---|---|---|---|---|---|---|---|
| 16.010 | 92.0 | 113.73 | 1.1843 | 0.9887 | 1.0078 | 2148 | | 0.713 |

## (OPEN FLOW)(DELIVERABILITY) CALCULATIONS

$(Pc)^2$ = 275.0 $(Pw)^2$ = 225.1 Pd = 14.8 % (Pc - 14.4) + 14.4 = $(Pa)^2$ = 0.207 $(Pd)^2$ = 6.02

| $(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$ | $(P_c)^2 - (P_w)^2$ | $\frac{(P_c)^2 - (P_a)^2 \text{ or } (P_c)^2 - (P_d)^2}{(P_c)^2 - (P_w)^2}$ | LOG [ ] | Backpressure Curve Slope "n" ---- or ---- Assigned Standard Slope | n x LOG [ ] | Antilog | Open Flow Deliverability = R x Antilog Mcfd |
|---|---|---|---|---|---|---|---|
| 274.79 | 49.94 | 5.502 | 0.7405 | 0.869 | 0.6435 | 4.401 | 9455 |
| 268.97 | 49.94 | 5.386 | 0.7313 | 0.869 | 0.6355 | 4.320 | 9281 |

OPEN FLOW 9455 Mcfd @ 14.65 psia DELIVERABILITY 9281 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 herein and that said report is true and correct. Executed this the 6 day of [illegible], 20 10

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JAN 2 [illegible]
KCC WICHITA

Witness (if any)

For Company

For Commission

Checked by