

KANSAS CORPORATION COMMISSION
MULTIPOINT BACK PRESSURE TEST

FORM G-1
8-7-58

| | | | | | |
|---|--------------------------------|--------------------------------------|----------------|-----------------------------|------------|
| TYPE TEST: <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special | | TEST DATE: 11-6-2000 | | | |
| COMPANY Samuel Gary Jr. & Associates | | LEASE Jellison | | WELL NO. 10-2 | |
| COUNTY Comanche | LOCATION NW NE | SECTION 10-33s-19w | TWP | RNG | ACRES |
| FIELD Wildcat | RESERVOIR Cherokee | PIPELINE CONNECTION | | | |
| COMPLETION DATE 6/25/00 | PLUG BACK DEPTH TOTAL DEPTH | 5354 5400 | | PACKER SET AT | |
| CASING SIZE 5.500 | WT. 17.000 | ID 4.892 | SET AT 5397 | PERF. 5210 | TO 5215 |
| TUBING SIZE 2.375 | WT. 4.700 | ID 1.995 | SET AT 5339 | PERF. | TO |
| TYPE COMPLETION (Describe) | | TYPE FLUID PRODUCTION oil & water | | | |
| PRODUCING THRU (Annulus/Tubing) Annulus | | RESERVOIR TEMPERATURE F 121 | | BAR PRESS - Pa 14.4 psia | |
| GAS GRAVITY - Gg .611 | | % CARBON DIOXIDE .190 | | % NITROGEN 1.539 | |
| API GRAVITY OF LIQUID | | | | | |
| VERTICAL DEPTH (ft) 5213 | | TYPE METER CONN. flange | | METER RUN SIZE 2" | |
| REMARKS | | | | | |

OBSERVED SURFACE DATA

| RATE NO. | ORIFICE SIZE in. | (METER) PRESSURE psig | DIFF. (h _w) (h _t) | FLOWING TEMP t. | WELLHEAD TEMP. t. | CASING WELLHEAD PRESS. | | | TUBING WELLHEAD PRESS. | | DURATION HOURS | LIQUID PROD. Bbls. |
|----------|------------------|-----------------------|---|-----------------|-------------------|------------------------|--|------|--|-------|----------------|--------------------|
| | | | | | | psig | (P _w) (P _t) (P _c) psia | psig | (P _w) (P _t) (P _c) psia | | | |
| SHUT-IN | | | | | | 502 | 516 | 504 | 518 | 72.00 | | |
| 1. | 1.000 | 82.00 | 9.00 | 42 | | 494 | 508 | 495 | 509 | 1.00 | | |
| 2. | 1.000 | 87.00 | 29.00 | 43 | | 465 | 479 | 466 | 480 | 1.00 | | |
| 3. | 1.000 | 95.00 | 60.00 | 42 | | 424 | 438 | 427 | 441 | 1.00 | | |
| 4. | 1.000 | 99.00 | 75.00 | 44 | | 395 | 409 | 398 | 412 | 1.00 | | |

FLOW STREAM ATTRIBUTES

| RATE NO. | COEFFICIENT (F _b) Mcfd | (METER) PRESSURE psia | EXTENSION $\sqrt{P_m \times H_w}$ | GRAVITY FACTOR F _g | FLOWING TEMP FACTOR F _t | DEVIATION FACTOR F _{pv} | RATE OF FLOW Q Mcfd | GOR | G _m |
|----------|------------------------------------|-----------------------|-----------------------------------|-------------------------------|------------------------------------|----------------------------------|---------------------|-----|----------------|
| | | | | | | | | | |
| 2. | 5.070 | 101.4 | 54.23 | 1.2796 | 1.0168 | 1.0092 | 360 | | .611 |
| 3. | 5.070 | 109.4 | 81.02 | 1.2796 | 1.0178 | 1.0100 | 540 | | .611 |
| 4. | 5.073 | 113.4 | 92.22 | 1.2796 | 1.0157 | 1.0102 | 614 | | .611 |

PRESSURE CALCULATION

| RATE NO. | P _t psia | P _c psia | P _w psia | (P _c) ² Thousands | (P _w) ² Thousands | PLOTING POINTS | | % SHUT-IN 100 $\left[\frac{P_w - P_a}{P_c - P_a} \right]$ |
|----------|---------------------|---------------------|---------------------|--|--|---|--------|--|
| | | | | | | (P _c) ² - (P _w) ² Thousands | Q Mcfd | |
| 1. | 508.4 | 518.4 | 509.4 | 268.7 | 259.5 | 9.3 | 196.2 | 98.2 |
| 2. | 479.4 | 518.4 | 480.4 | 268.7 | 230.8 | 38.0 | 361.0 | 92.5 |
| 3. | 438.4 | 518.4 | 441.4 | 268.7 | 194.8 | 73.9 | 540.3 | 84.7 |
| 4. | 409.4 | 518.4 | 412.4 | 268.7 | 170.1 | 98.7 | 614.3 | 79.0 |

INDICATED WELLHEAD OPEN FLOW 1101 Mcfd @ 14.65 psia "n" =

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 15 day of Nov, 2000.

Witness (if any)

For Commission

For Company

Checked by

KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

FORM G-2
(Rev.8/98)

TYPE TEST:
 Open Flow
 Deliverability

TEST DATE: 11/07/00 API No. 15-033-21092-0000

| | | | | | |
|---|--------------------------------------|----------------------------|--|-------------------------|------------|
| Company Samuel Gary Jr. & Associates | | Lease Jellison | | Well Number 10-2 | |
| County Comanche | Location NW NE | Section 10-33s-19w | TWP RNG(E/W) | Acres Attributed | |
| Field Wildcat | Reservoir Cherokee | | Gas Gathering Connection | | |
| Completion Date 6/25/00 | Plug Back Total Depth 5354 | | Packer Set at | | |
| Casing Size 5.500 | Weight 17.000 | Internal Diameter 4.892 | Set at 5397 | Perforations 5210 | To 5215 |
| Tubing Size 2.375 | Weight 4.700 | Internal Diameter 1.995 | Set at 5339 | Perforations | To |
| Type Completion (Describe) | Type Fluid Production oil & water | | Pump Unit or Traveling Plunger? ANR | | |
| Producing Thru(Annulus/Tubing) Annulus | % Carbon Dioxide .190 | | % Nitrogen 1.539 | Gas Gravity- Gg .611 | |
| Vertical Depth (ft) 5213 | Pressure Taps Flange | | Meter Run Size 2" | | |
| Pressure Buildup: Shut in | 11/3/00 @ 8:00am | TAKEN | | 11/6/00 @ 10:20am | |
| Well on Line: Started | 11/6/00 @ 10:20am | TAKEN | | 11/7/00 @ 2:45 pm | |

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) | | Tubing WellHead Press. (P _w) (P _t) (P _c) | | Duration (Hours) | Liquid Prod. Barrels |
|--------------------------------|------------------------|---------------------------|---|------------------------|-------------------------|---|------|---|------|---------------------|----------------------------|
| | | | | | | psig | psia | psig | psia | | |
| Shut-in | | | | | | 502 | 516 | 504 | 518 | 74.0 | |
| Flow | 1.000 | 100.0 | 17.00 | 49 | | 246 | 260 | 328 | 342 | 28.0 | |

FLOW STREAM ATTRIBUTES

| COEFFICIENT (F _b) Mcf/d | (METER) PRESSURE psia | EXTENSION $\sqrt{P_m \times H_w}$ | GRAVITY FACTOR F _g | FLOWING TEMP FACTOR F _t | DEVIATION FACTOR F _{pv} | RATE OF FLOW R Mcf/d | GOR | G _m |
|---|-----------------------------|--------------------------------------|-------------------------------------|--|--|----------------------------|-----|----------------|
| 5.070 | 114.4 | 44.10 | 1.2793 | 1.0107 | 1.0100 | 291 | | .611 |

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

(P_c)² = 268.7 (P_w)² = 117.2 19.1 % (P_c - 14.4) + 14.4 = (P_a)² = 0.207
(P_d)² = 9.80

| $(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$ | $(P_c)^2 - (P_w)^2$ | $\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_d)^2}$ or $\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_w)^2}$ | LOG | Backpressure Curve Slope "n" or Assigned Standard Slope | n x LOG | Antilog | Open Flow Deliverability = R x Antilog Mcf/d |
|--|---------------------|--|-------|---|---------|---------|---|
| 268.53 | 151.50 | 1.772 | .2486 | .567 | .1410 | 1.384 | 404 |
| 258.94 | 151.50 | 1.709 | .2328 | .567 | .1321 | 1.355 | 395 |

OPEN FLOW 404 Mcfd @ 14.65 psia DELIVERABILITY 395 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 15 day of Nov 2000

Witness (if any)

For Company

For Commission

Checked by

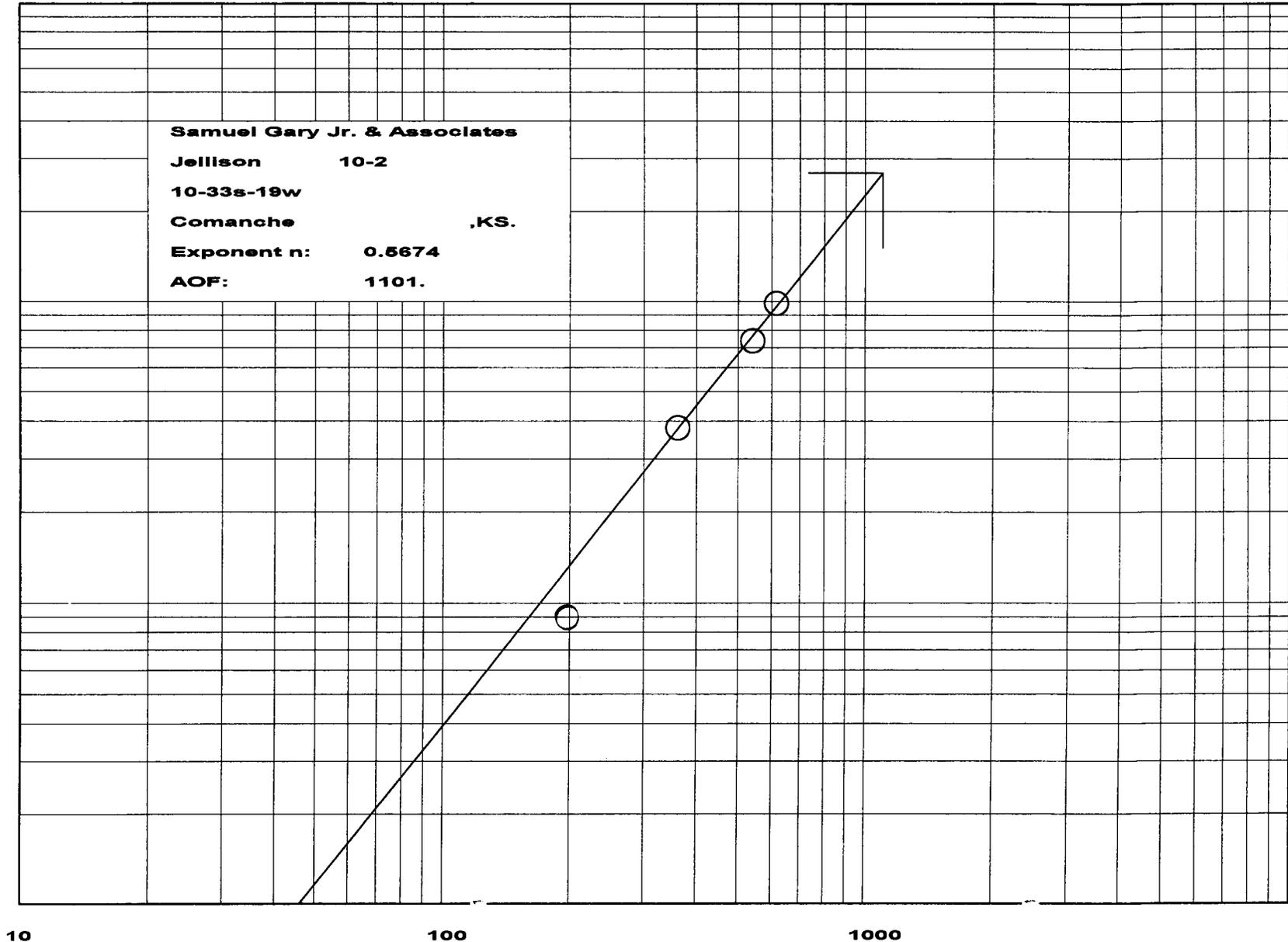
GAS WELL BACK PRESSURE CURVE

WELL TESTER:

TEST DATE: 11-6-2000

Samuel Gary Jr. & Associates
Jellison 10-2
10-33s-19w
Comanche ,KS.
Exponent n: 0.5674
AOF: 1101.

$P_c^2 - P_w^3$ (10 PSI)²



10

100

1000

Q (MCF/DAY)

Samuel Gary Jr & Associates
 10-33s-19w Comanche co Kansas
 Start Test Date: 2000/11/06
 Final Test Date: 2000/11/07

FieldNotes

Jellison 10-2

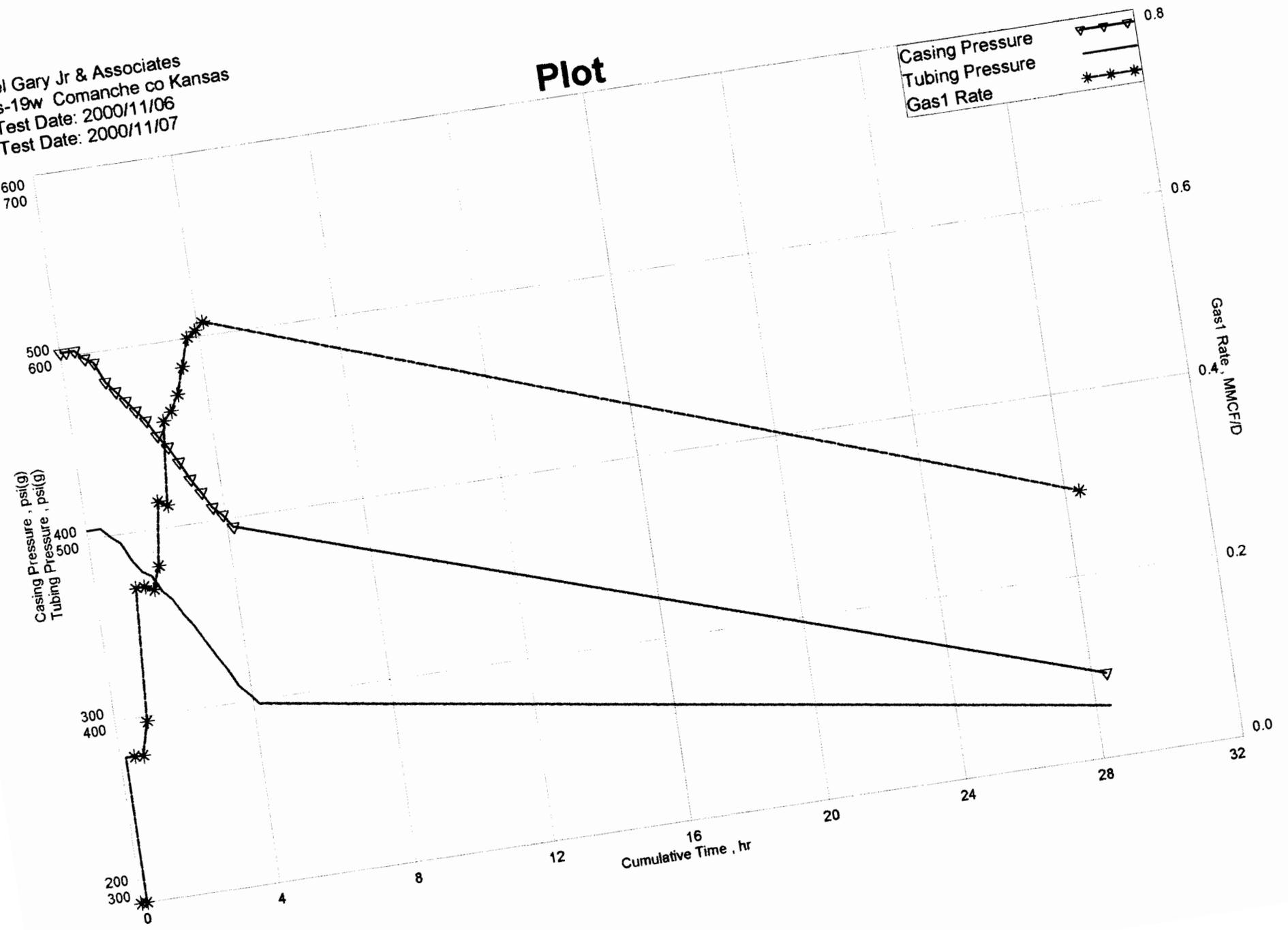
Field Measurements

| | Clock | Tubing | Casing | Static1 | Diff1 | Meter1 | Gas1 |
|----|------------|----------|----------|---------|-----------|--------|--------|
| | Date | Time | Comments | Pres | Pres | Pres | Rate |
| | yyyy/mm/dd | hh:mm:ss | | psi(g) | psi(g) | psi(g) | MMCF/D |
| | | | | | in of H2O | °F | |
| 1 | 2000/11/06 | 10:20:00 | Shutin | | | | |
| 2 | | 10:20:00 | | 504.00 | 502.00 | 0.00 | 0.000 |
| 3 | | 10:30:00 | | 504.00 | 502.00 | 80.00 | 0.000 |
| 4 | | 10:45:00 | | 504.00 | 502.00 | 81.00 | 0.159 |
| 5 | | 11:00:00 | | 499.00 | 497.00 | 80.00 | 0.158 |
| 6 | | | 1st Pt. | | | | |
| 7 | | 11:15:00 | | 495.00 | 494.00 | 81.00 | 0.195 |
| 8 | | 11:30:00 | | 485.00 | 483.00 | 82.00 | 0.339 |
| 9 | | 11:45:00 | | 478.00 | 477.00 | 82.00 | 0.340 |
| 10 | | 12:00:00 | | 475.00 | 471.00 | 83.00 | 0.335 |
| 11 | | | 2nd Pt. | | | | |
| 12 | | 12:15:00 | | 466.00 | 465.00 | 86.00 | 0.360 |
| 13 | | 12:30:00 | | 461.00 | 459.00 | 87.00 | 0.429 |
| 14 | | 12:45:00 | | 452.00 | 450.00 | 87.00 | 0.423 |
| 15 | | 13:00:00 | | 445.00 | 443.00 | 90.00 | 0.514 |
| 16 | | 13:15:00 | | 436.00 | 434.00 | 94.00 | 0.524 |
| 17 | | 13:30:00 | 3rd Pt. | | | | |
| 18 | | 13:30:00 | | 427.00 | 424.00 | 95.00 | 0.540 |
| 19 | | 13:45:00 | | 419.00 | 416.00 | 96.00 | 0.570 |
| 20 | | 14:00:00 | | 409.00 | 407.00 | 98.00 | 0.600 |
| 21 | | 14:15:00 | | 404.00 | 402.00 | 99.00 | 0.606 |
| 22 | | 14:30:00 | 4th Pt | | | | |
| 23 | | 14:30:00 | | 398.00 | 395.00 | 99.00 | 0.615 |
| 24 | 2000/11/07 | 14:45:00 | 1 Point | | | | |
| 25 | | 14:45:00 | | 328.00 | 246.00 | 100.00 | 0.292 |



Amuel Gary Jr & Associates
0-33s-19w Comanche co Kansas
Start Test Date: 2000/11/06
Final Test Date: 2000/11/07

Plot



Company: Samuel Gray Jr. & Assoc.
 Address: Denver Co
 Wellname: Jellison #10-2
 Legal: NW NE Sec: 10 Twp: 33S Rge: 19W
 Formation: Cherokee Field/Pool: _____ County: Comanche St: Ks.
 Casing size: 5 1/2" Feet of: 5397' Wt: 94 lbs 17# Meter run size: 2'0 SI: 802
35 JTS 155#
 Tubing Size: 2 3/8" Feet of: 5339' Wt: 47# Orif (in): 1.0" 95% 427
 TD: 5400' Plugged back depth: 5354' Packer depth: None 90% 452
 Type Test: 4-Point (state) Tap Type: _____ Gravity: _____ 85% 427
 Type Completion: _____ Producing through: Annular 80% 402

| Date | Clk Tim | Tbg Pres | Csg Pres | Diff | Temp | Static/Prover | Wat Vol1 | Oil Vol | Comment |
|-------|---------|----------|----------|-----------|------|---------------|----------|---------|------------------------------|
| mm/dd | clock | psi | psi | in of H2O | F | PSI | inch | inch | |
| 11/06 | 10:20 | 504 | 502 | 0 | 39 | 80 | 40 | 4 | Setup Test |
| | 10:30 | 504 | 502 | 0 | 40 | 80 | 40 | 4 | Start Test |
| | 10:45 | 504 | 502 | 6" | 42 | 81 | " | " | |
| | 11:00 | 499 | 497 | 6" | 42 | 80 | | | |
| | 11:15 | 495 | 494 | 9" | 43 | 81 | | | |
| | 11:30 | 485 | 483 | 27" | 42 | 82 | | | 1 st Point |
| | 11:45 | 478 | 477 | 27" | 41 | 82 | | | |
| | 12:00 | 475 | 471 | 26" | 41 | 83 | | | |
| | 12:15 | 464 | 465 | 29" | 40 | 86 | | | |
| | 12:30 | 461 | 459 | 41" | 43 | 87 | 40" | 4" | 2 nd Point |
| | 12:45 | 452 | 450 | 40" | 44 | 87 | | | |
| | 13:00 | 445 | 443 | 52" | 42 | 90 | | | |
| | 13:15 | 436 | 434 | 57" | 43 | 94 | | | |
| | 13:30 | 427 | 424 | 60" | 42 | 95 | | | 3 rd Point |
| | 13:45 | 419 | 416 | 66" | 42 | 96 | | | |
| | 14:00 | 409 | 407 | 72" | 43 | 98 | | | |
| | 14:15 | 404 | 402 | 73" | 44 | 99 | | | |
| | 14:30 | 398 | 395 | 75" | 44 | 99 | 40" | 4" | 4 th Point |
| | | | | | | | | | choked back for 24 hr. 1 pt. |

| Date | Miles | Name | Date | Miles | Name | Date | Miles | Name |
|-------|-------|--------------------|------|-------|------|------|-------|------|
| 11/06 | 136 | Samuel Gray Jr. | | | | | | |
| | | <i>[Signature]</i> | | | | | | |

From: Tom Fertal <tom@sga3d.com>
To: "Paul Simpson (E-mail)" <trilobite@eaglecom.net>,
"Tom Larson (E-mail 3)" <tlarson@greatbend.com>
Subject: WELL DATA ON JELLISON 10-2
Date: Fri, 3 Nov 2000 10:37:23 -0700
X-Mailer: Internet Mail Service (5.5.2650.21)

Paul,

Here are the data on the Jellison 10-2 : NW NE Sec. 10 - 33S - 19W
Comanche Co., KS , WILDCAT ; Total Depth drilled = 5400' , PBTD = 5354' ,
API # 15-033-21092-0000 , 5-1/2" production casing set @ 5397' 94 jts of
17#, and 35 jts 15.5# , 2-3/8" tubing set @ 5339' , Producing formation =
Cherokee, Perfs are 5210 - 15 , Completion date June 25, 2000 , put on a
pump in August 2000. Pipeline = ANR , the well is a Gas well making about
11 BWPD + a trace of oil.

If you need any other info let me know.

Tom