

KANSAS CORPORATION COMMISSION
MULTIPOINT BACK PRESSURE TEST

FORM G-1
8-7-58

| | | | | | |
|--|--------------------------|----------------------|-------------------------------|-----------------------------|-------|
| TYPE TEST: <input type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special | | TEST DATE: 11/08/01 | | | |
| COMPANY R.P. Nixon Oil Operations | | LEASE Warta | | WELL NO. #1 | |
| COUNTY Russell | LOCATION s/2 se | SECTION 19- | TWP 15s | RNG 11w | ACRES |
| FIELD Tarkio | | PIPELINE CONNECTION | | | |
| COMPLETION DATE | PLUG BACK DEPTH | 3000 | | PACKER SET AT | |
| | TOTAL DEPTH | 3366 | | | |
| CASING SIZE | WT. | ID | SET AT | PERF. | TO |
| 5.500 | 15.500 | 4.995 | 3365 | 2394 | 2399 |
| TUBING SIZE | WT. | ID | SET AT | PERF. | TO |
| NONE | | | | | |
| TYPE COMPLETION (Describe) natural | | | TYPE FLUID PRODUCTION | | |
| PRODUCING THRU (Annulus/Tubing) casing | | | RESERVOIR TEMPERATURE F 90 | BAR PRESS - Pa 14.4 psia | |
| GAS GRAVITY - Gg .767 | % CARBON DIOXIDE .060 | % NITROGEN 38.245 | | API GRAVITY OF LIQUID | |
| VERTICAL DEPTH (H) 2396 | TYPE METER CONN. | | PROVER SIZE 2' | | |
| REMARKS | | | | | |

OBSERVED SURFACE DATA

| RATE NO. | ORIFICE SIZE in. | (PROVER) 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 | | | | | | 587 | 601 | | | | |
| 1. | .250 | 41.00 | | 50 | | 548 | 562 | | | .50 | |
| 2. | .250 | 73.00 | | 48 | | 523 | 537 | | | .50 | |
| 3. | .250 | 85.00 | | 46 | | 498 | 512 | | | .50 | |
| 4. | .250 | 96.00 | | 46 | | 470 | 484 | | | .50 | |

FLOW STREAM ATTRIBUTES

| RATE NO. | COEFFICIENT (F _p) Mcfd | (PROVER) PRESSURE psia | EXTENSION $\sqrt{P_m \times H_w}$ | GRAVITY FACTOR Fg | FLOWING TEMP FACTOR Ft | DEVIATION FACTOR Epv | RATE OF FLOW Q Mcfd | GOR | G _m |
|----------|------------------------------------|------------------------|-----------------------------------|-------------------|------------------------|----------------------|---------------------|-----|----------------|
| | | | | | | | | | |
| 2. | 1.115 | 87.4 | 87.40 | 1.1418 | 1.0117 | 1.0061 | 113 | | .767 |
| 3. | 1.115 | 99.4 | 99.40 | 1.1418 | 1.0137 | 1.0071 | 129 | | .767 |
| 4. | 1.115 | 110.4 | 110.40 | 1.1418 | 1.0137 | 1.0079 | 143 | | .767 |

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. | 562.4 | 601.4 | 562.4 | 361.7 | 316.3 | 45.4 | 71.2 | 93.4 |
| 2. | 537.4 | 601.4 | 537.4 | 361.7 | 288.8 | 72.9 | 113.3 | 89.1 |
| 3. | 512.4 | 601.4 | 512.4 | 361.7 | 262.6 | 99.1 | 129.2 | 84.8 |
| 4. | 484.4 | 601.4 | 484.4 | 361.7 | 234.6 | 127.0 | 143.6 | 80.1 |

INDICATED WELLHEAD OPEN FLOW

310

Mcfd @ 14.65 psia

"n" = .708

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 _____ day of _____, 20 _____

Witness (if any)

For Company

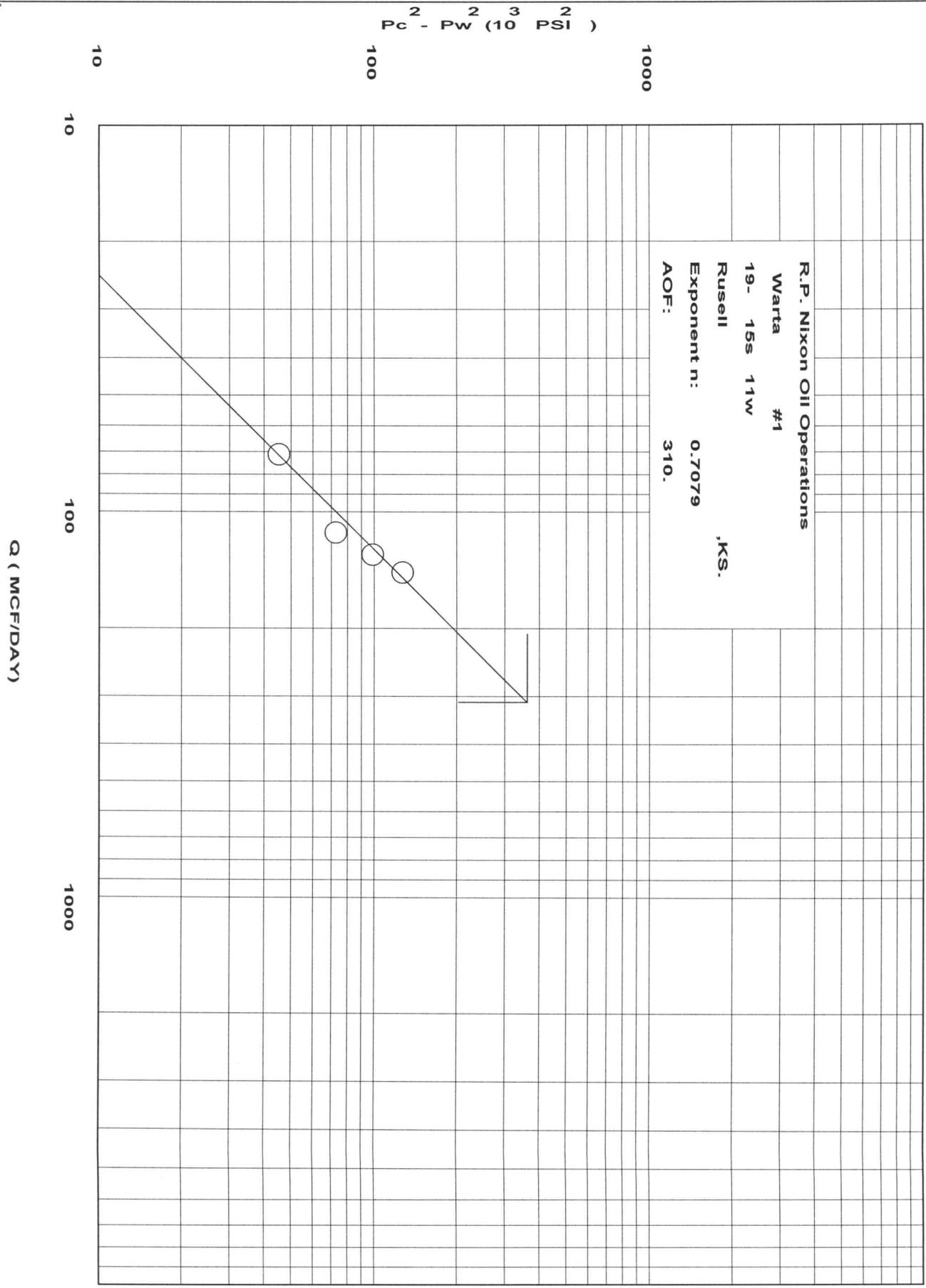
For Commission

Checked by

GAS WELL BACK PRESSURE CURVE

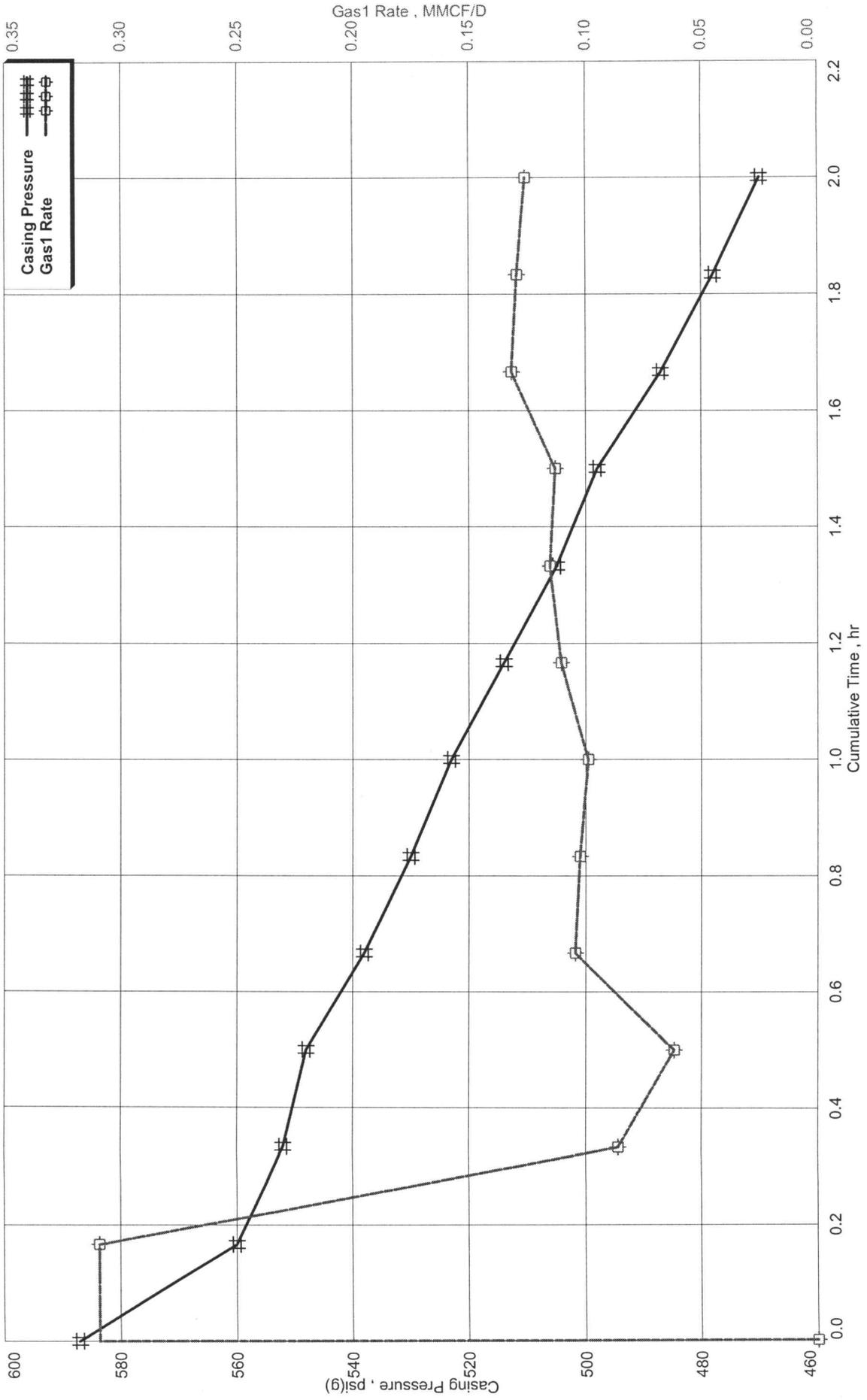
WELL TESTER: Trilobite Testing
TEST DATE: 11/08/01

R.P. Nixon Oil Operations
Warta #1
19- 15s 11w
Russell
Exponent n: 0.7079
AOF: 310.
.KS.



RP Nixon Oil Operations
s/2 SE 19 15s-11w Russell KS
Start Test Date: 2001/11/08
Final Test Date: 2001/11/08

Plot



FieldNotes

Field Measurements

RP Nixon Oil Operations
 s/2 SE 19 15s-11w Russell KS
 Start Test Date: 2001/11/08
 Final Test Date: 2001/11/08

| Date | Clock Time | Casing | | Static1 | | Meter1 | | Gas1 Rate | Comments |
|------------|------------|----------|--------|---------|--------|--------|--------|-----------|----------|
| | | Pres | psi(g) | Pres | psi(g) | Temp | °F | | |
| yyyy/mm/dd | hh:mm:ss | psi(g) | psi(g) | in | in | °F | MMCF/D | | |
| 1 | 2001/11/08 | 13:35:00 | | | | | | | shutin |
| 2 | | 13:35:00 | 587.00 | 0.00 | 0.000 | 0.00 | 0.000 | 0.000 | |
| 3 | | 13:45:00 | 560.00 | 251.00 | 0.250 | 56.00 | 0.309 | 0.309 | |
| 4 | | 13:55:00 | 552.00 | 62.00 | | 50.00 | 0.086 | 0.086 | |
| 5 | | 14:05:00 | | | | | | | 1st pt |
| 6 | | 14:05:00 | 548.00 | 41.00 | | 50.00 | 0.062 | 0.062 | |
| 7 | | 14:15:00 | 538.00 | 78.00 | | 50.00 | 0.104 | 0.104 | |
| 8 | | 14:25:00 | 530.00 | 76.00 | | 48.00 | 0.102 | 0.102 | |
| 9 | | 14:35:00 | | | | | | | 2nd pt |
| 10 | | 14:35:00 | 523.00 | 73.00 | | 48.00 | 0.099 | 0.099 | |
| 11 | | 14:45:00 | 514.00 | 83.00 | | 48.00 | 0.110 | 0.110 | |
| 12 | | 14:55:00 | 505.00 | 87.00 | | 46.00 | 0.115 | 0.115 | |
| 13 | | 15:05:00 | | | | | | | 3rd pt |
| 14 | | 15:05:00 | 498.00 | 85.00 | | 46.00 | 0.113 | 0.113 | |
| 15 | | 15:15:00 | 487.00 | 101.00 | | 46.00 | 0.132 | 0.132 | |
| 16 | | 15:25:00 | 478.00 | 99.00 | | 46.00 | 0.129 | 0.129 | |
| 17 | | 15:35:00 | | | | | | | 4th pt |
| 18 | | 15:35:00 | 470.00 | 96.00 | | 46.00 | 0.126 | 0.126 | |

2001/11/08 13:35:00 To 2001/11/08 15:35:00
 Gas 0.011 Cum. 0.011 MMCF

