P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

# WESTERN TESTING CO., INC.

## FORMATION TESTING

TICKET. Nº . 5902

Kelly Bushing.

Elevation 1280 Kb Formation Mississippi Eff. Pay Ft.

District Augusta Date 8/11/80 Customer Order No.

COMPANY NAME Rains + Williamson Oil Company Inc.

ADDRESS 435 Page Court, Wichita Ks 220 W. Douglas - Wichita Ks.

LEASE AND WELL NO Maxwell #1 COUNTY Sumner STATE Ks Sec ~~21~~ 27 Twp 31S Rge 1E

Mail Invoice To Same No. Copies Requested 1
Co. Name Address

Mail Charts To Same No. Copies Requested 5
Address

Formation Test No. 1 Interval Tested from 3536 ft. to 3550 ft. Total Depth 3550 ft.

| | | | |
|---|---|---|---|
| Packer Depth 3536 ft. | Size 6 3/4 in. | Packer Depth ft. | Size in. |
| Packer Depth 3531 ft. | Size 6 3/4 in. | Packer Depth ft. | Size in. |
| Depth of Selective Zone Set | | | |

| | | | |
|---|---|---|---|
| Top Recorder Depth (Inside) | 3542 ft. | Recorder Number 2605 | Cap. 4150 |
| Bottom Recorder Depth (Outside) | 3545 ft. | Recorder Number 10980 | Cap. 4200 |
| Below Straddle Recorder Depth | — ft. | Recorder Number — | Cap. — |

| | | | |
|---|---|---|---|
| Drilling Contractor R + W #3 | | Drill Collar Length 390 | I. D. in. |
| Mud Type Chem | Viscosity 39 | Weight Pipe Length | I. D. in. |
| Weight 9.5 | Water Loss 15.6 cc. | Drill Pipe Length 3125 | I. D. in. |
| Chlorides 5,600 P.P.M. | | Test Tool Length 21 ft. | Tool Size 5 1/2 in. |
| Jars: Make NO | Serial Number — | Anchor Length 14 ft. | Size 5 1/2 in. |
| Did Well Flow? NO | Reversed Out | Surface Choke Size 3/4 in. | Bottom Choke Size 3/4 in. |
| | | Main Hole Size 7 7/8 in. | Tool Joint Size 4 1/2 XH in. |

Blow: Weak blow throughout Initial flow period, Weak blow throughout second flow Final

Recovered 60 ft. of gas in pipe
Recovered 120 ft. of slightly oil + gas cut mud | Top fluid Sample 7% oil 32% water 61% mud
Recovered ft. of
Recovered ft. of
Recovered ft. of Chlorides 21,000 | Bottom 8% oil 45% water 47% mud

Remarks:

On location 1 PM pick up tool 2 PM,

| | | | | | |
|---|---|---|---|---|---|
| Time Set Packer(s) 3:50 A.M. P.M. | Time Started Off Bottom 7:05 A.M. P.M. | | | Maximum Temperature 115° | |
| Initial Hydrostatic Pressure | | (A) 1723 | P.S.I. | | |
| Initial Flow Period Minutes 30 | | (B) 42 | P.S.I. to (C) | 52 | P.S.I. |
| Initial Closed In Period Minutes 45 | | (D) 1337 | P.S.I. | | |
| Final Flow Period Minutes 60 | | (E) 73 | P.S.I. to (F) | 84 | P.S.I. |
| Final Closed In Period Minutes 60 | | (G) 1275 | P.S.I. | | |
| Final Hydrostatic Pressure | | (H) 1723 | P.S.I. | | |

### COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By H. Adam Ingels
Signature of Customer or his authorized representative

Western Representative Kenny Kuykendall

### FIELD INVOICE

| | | |
|---|---|---|
| Open Hole Test | $ | 550.00 |
| Misrun | $ | |
| Straddle Test | $ | |
| Jars | $ | |
| Selective Zone | $ | |
| Safety Joint | $ | |
| Standby | $ | |
| Evaluation | $ | |
| Extra Packer | $ | |
| Circ. Sub. | $ | |
| 54 Mileage X. 75¢ | $ | 40.50 |
| Fluid Sampler | $ | |
| Extra Charts | $ | |
| R. A. TOTAL | $ | 590.50 |

# WESTERN TESTING CO., INC.
## Pressure Data

Date 8-11-80 Test Ticket No. 5902

Recorder No. 2605 Capacity 4150 Location 35-42 Ft.

Clock No. Elevation 1280 Kelly Bushing Well Temperature 115 °F

| Point | | Pressure | | | Time Given | Time Computed |
|---|---|---|---|---|---|---|
| A | Initial Hydrostatic Mud | 1731 P.S.I. | | Open Tool | 3:50P M | |
| B | First Initial Flow Pressure | 61 P.S.I. | | First Flow Pressure | 30 Mins. | 30 Mins. |
| C | First Final Flow Pressure | 67 P.S.I. | | Initial Closed-in Pressure | 45 Mins. | 48 Mins. |
| D | Initial Closed-in Pressure | 1377 P.S.I. | | Second Flow Pressure | 60 Mins. | 60 Mins. |
| E | Second Initial Flow Pressure | 101 P.S.I. | | Final Closed-in Pressure | 60 Mins. | 60 Mins. |
| F | Second Final Flow Pressure | 105 P.S.I. | | | | |
| G | Final Closed-in Pressure | 1368 P.S.I. | | | | |
| H | Final Hydrostatic Mud | 1731 P.S.I. | | | | |

## PRESSURE BREAKDOWN

**First Flow Pressure**
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

| Point Mins. | | Press. |
|---|---|---|
| P 1 | 0 | 61 |
| P 2 | 5 | 71 |
| P 3 | 10 | 71 |
| P 4 | 15 | 67 |
| P 5 | 20 | 〃 |
| P 6 | 25 | 〃 |
| P 7 | 30 | 67 |
| P 8 | 35 | |
| P 9 | 40 | |
| P10 | 45 | |
| P11 | 50 | |
| P12 | 55 | |
| P13 | 60 | |
| P14 | | |
| P15 | | |
| P16 | | |
| P17 | | |
| P18 | | |
| P19 | | |
| P20 | | |

**Initial Shut-In**
Breakdown: 16 Inc.
of 3 mins. and a
final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 67 |
| 3 | 317 |
| 6 | 678 |
| 9 | 950 |
| 12 | 1084 |
| 15 | 1169 |
| 18 | 1209 |
| 21 | 1267 |
| 24 | 1294 |
| 27 | 1316 |
| 30 | 1329 |
| 33 | 1344 |
| 36 | 1354 |
| 39 | 1360 |
| 42 | 1368 |
| 45 | 1373 |
| 48 | 1377 |
| 51 | |
| 54 | |
| 57 | |
| 60 | |

**Second Flow Pressure**
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 101 |
| 5 | 92 |
| 10 | 88 |
| 15 | 88 |
| 20 | 97 |
| 25 | 97 |
| 30 | 97 |
| 35 | 99 |
| 40 | 105 |
| 45 | 〃 |
| 50 | 〃 |
| 55 | 〃 |
| 60 | 105 |
| 65 | |
| 70 | |
| 75 | |
| 80 | |
| 85 | |
| 90 | |

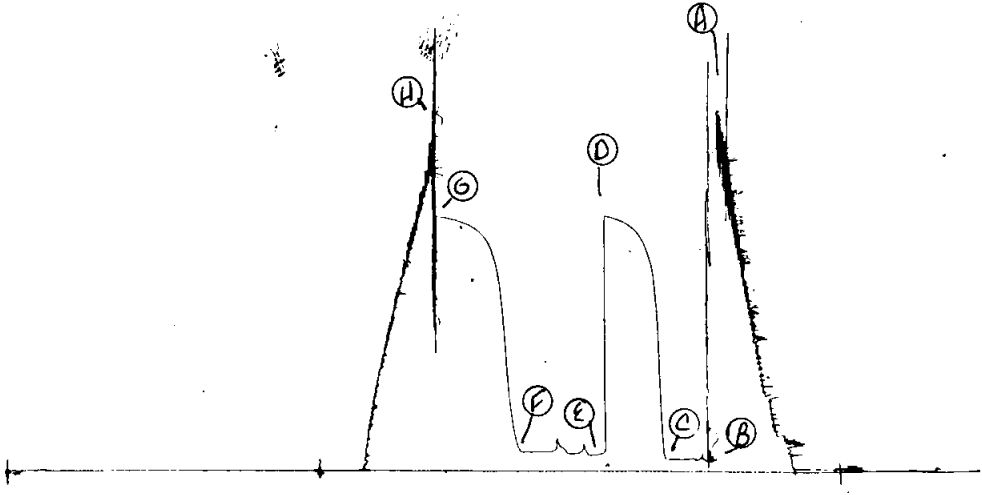
**Final Shut-In**
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 105 |
| 3 | 154 |
| 6 | 426 |
| 9 | 678 |
| 12 | 871 |
| 15 | 1029 |
| 18 | 1116 |
| 21 | 1190 |
| 24 | 1231 |
| 27 | 1263 |
| 30 | 1285 |
| 33 | 1306 |
| 36 | 1319 |
| 39 | 1329 |
| 42 | 1337 |
| 45 | 1344 |
| 48 | 1352 |
| 51 | 1356 |
| 54 | 1360 |
| 57 | 1364 |
| 60 | 1368 |

JK # 5902

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2605



Company Rains & Williamson Oil Co.,Inc. Lease & Well No. Maxwell #1

Elevation 1280 Kelly Bushing Formation Mississippi Effective Pay ---- Ft. Ticket No. 5902

Date 8/11/80 Sec. 21 Twp. 31S Range 1E County Sumner State Kansas

Test Approved by H. Deane Jirrels Western Representative Kenny Kirkendall

Formation Test No. 1 Interval Tested from 3536 ft. to 3550 ft. Total Depth 3550 ft.

Packer Depth 3536 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3531 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3542 ft. Recorder Number 2605 Cap. 4150

Bottom Recorder Depth (Outside) 3545 ft. Recorder Number 10980 Cap. 4200

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Rains & Williamson Drlg.Rig #3 Drill Collar Length 390 I. D. - in.

Mud Type chemical Viscosity 39 Weight Pipe Length - I. D. - in.

Weight 9.5 Water Loss 15.6 cc. Drill Pipe Length 3125 I. D. - in.

Chlorides 5,600 P.P.M. Test Tool Length 21 ft. Tool Size 5½ in.

Jars: Make No Serial Number - Anchor Length 14 ft. Size 5½ in.

Did Well Flow? No Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½XH in.

Blow: Weak blow throughout initial flow period;weak blow throughout final flow.

Recovered 60 ft. of gas in pipe

Recovered 120 ft. of slightly oil and gas cut mud (Top fluid Sample:7% oil;32% water;61% mud

Recovered ft. of Bottom: 8% oil;45% water;47% mud

Recovered ft. of

Recovered ft. of Chlorides 21,000 ppm

Remarks:

Time Set Packer(s) 3:50 ~~A.M.~~ P.M. Time Started Off Bottom 7:05 A.M. P.M. Maximum Temperature 115°

| | | | | | | |
|---|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | | (A) | 1731 | P.S.I. | |
| Initial Flow Period | Minutes | 30 | (B) | 61 | P.S.I. to (C) | 67 P.S.I. |
| Initial Closed In Period | Minutes | 48 | (D) | 1377 | P.S.I. | |
| Final Flow Period | Minutes | 60 | (E) | 101 | P.S.I. to (F) | 105 P.S.I. |
| Final Closed In Period | Minutes | 60 | (G) | 1368 | P.S.I. | |
| Final Hydrostatic Pressure | | | (H) | 1731 | P.S.I. | |

# WESTERN TESTING CO., INC.

## Pressure Data

Date 8-11-80 Test Ticket No. 5902

Recorder No. 2605 Capacity 4150 Location 3542 Ft.

Clock No. Elevation 1280 Kelly Bushing Well Temperature 115 °F

| Point | | Pressure | |
|---|---|---|---|
| A | Initial Hydrostatic Mud | 1731 | P.S.I. |
| B | First Initial Flow Pressure | 61 | P.S.I. |
| C | First Final Flow Pressure | 67 | P.S.I. |
| D | Initial Closed-in Pressure | 1377 | P.S.I. |
| E | Second Initial Flow Pressure | 101 | P.S.I. |
| F | Second Final Flow Pressure | 105 | P.S.I. |
| G | Final Closed-in Pressure | 1368 | P.S.I. |
| H | Final Hydrostatic Mud | 1731 | P.S.I. |

| | Time Given | Time Computed |
|---|---|---|
| Open Tool | 3:50P M | |
| First Flow Pressure | 30 Mins. | 30 Mins. |
| Initial Closed-in Pressure | 45 Mins. | 48 Mins. |
| Second Flow Pressure | 60 Mins. | 60 Mins. |
| Final Closed-in Pressure | 60 Mins. | 60 Mins. |

## PRESSURE BREAKDOWN

**First Flow Pressure**
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

| Point Mins. | Press. |
|---|---|
| P 1 0 | 61 |
| P 2 5 | 71 |
| P 3 10 | 71 |
| P 4 15 | 67 |
| P 5 20 | 67 |
| P 6 25 | 67 |
| P 7 30 | 67 |
| P 8 | |
| P 9 | |
| P10 | |
| P11 | |
| P12 | |
| P13 | |
| P14 | |
| P15 | |
| P16 | |
| P17 | |
| P18 | |
| P19 | |
| P20 | |

**Initial Shut-In**
Breakdown: 16 Inc.
of 3 mins. and a
final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 67 |
| 3 | 317 |
| 6 | 678 |
| 9 | 950 |
| 12 | 1084 |
| 15 | 1169 |
| 18 | 1209 |
| 21 | 1267 |
| 24 | 1294 |
| 27 | 1316 |
| 30 | 1329 |
| 33 | 1344 |
| 36 | 1354 |
| 39 | 1360 |
| 42 | 1368 |
| 45 | 1373 |
| 48 | 1377 |

**Second Flow Pressure**
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 101 |
| 5 | 92 |
| 10 | 88 |
| 15 | 88 |
| 20 | 97 |
| 25 | 97 |
| 30 | 97 |
| 35 | 99 |
| 40 | 105 |
| 45 | 105 |
| 50 | 105 |
| 55 | 105 |
| 60 | 105 |

**Final Shut-In**
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 105 |
| 3 | 154 |
| 6 | 426 |
| 9 | 678 |
| 12 | 871 |
| 15 | 1029 |
| 18 | 1116 |
| 21 | 1190 |
| 24 | 1231 |
| 27 | 1263 |
| 30 | 1285 |
| 33 | 1306 |
| 36 | 1319 |
| 39 | 1329 |
| 42 | 1337 |
| 45 | 1344 |
| 48 | 1352 |
| 51 | 1356 |
| 54 | 1360 |
| 57 | 1364 |
| 60 | 1368 |

P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

# WESTERN TESTING CO., INC.
## FORMATION TESTING

TICKET No. 5903

Kelly Bushing.

Elevation 1280 Kb Formation Miss Lssippi Eff. Pay Ft.

District Augusta Date 8/12/80 Customer Order No.

COMPANY NAME Rains & Williamson Oil Co. Inc.

ADDRESS 435 Page Court Wichita Ks 220 W. Douglas Wichita, Ks.

LEASE AND WELL NO Maxwell #1 COUNTY Sumner STATE Ks Sec 27 Twp 31S Rge

Mail Invoice To Same No. Copies Requested 1
Co. Name Address

Mail Charts To Same No. Copies Requested 5
Address

Formation Test No. 2 Interval Tested from 3550 ft. to 3565 ft. Total Depth 3565 ft.

Packer Depth 3550 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Packer Depth 3545 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3557 ft. Recorder Number 2605 Cap. 4150

Bottom Recorder Depth (Outside) 3566 ft. Recorder Number 10980 Cap. 4200

Below Straddle Recorder Depth ft. Recorder Number — Cap. —

Drilling Contractor RdW #3 Drill Collar Length 396 I. D. in.

Mud Type Chem Viscosity 39 Weight Pipe Length — I. D. in.

Weight 9.5 Water Loss 15.4 cc. Drill Pipe Length 3239 I. D. in.

Chlorides 5,600 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.

Jars: Make NO Serial Number — Anchor Length 15 ft. Size 5 1/2 in.

Did Well Flow? NO Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Initial Weak fluid flow, weak building to fair second flow. Final

Recovered 180 ft. of Gas

Recovered 120 ft. of Oil & gas cut mud

Recovered 60 ft. of Oil & gas cut muddy water

Recovered ft. of

Recovered ft. of

Remarks: Chlorides 34,000 ppm.

Top 13% oil
12% water
75% mud

Bottom 37% oil
62% water
35% mud

middle 15% oil
10% water
75% mud

Standby after DST #1

Time Set Packer(s) 9:00 A.M. P.M. Time Started Off Bottom 12:15 A.M. P.M. Maximum Temperature 116°

| | | | | | | |
|---|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | (A) | 1734 | P.S.I. | | |
| Initial Flow Period | Minutes 30 | (B) | 63 | P.S.I. to | (C) 63 | P.S.I. |
| Initial Closed In Period | Minutes 45 | (D) | 1368 | P.S.I. | | |
| Final Flow Period | Minutes 60 | (E) | 95 | P.S.I. to | (F) 105 | P.S.I. |
| Final Closed In Period | Minutes 66 | (G) | 1368 | P.S.I. | | |
| Final Hydrostatic Pressure | | (H) | 1734 | P.S.I. | | |

### COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By A. Wayne Farrels
Signature of Customer or his authorized representative

Western Representative Kenny Kirkendall

RECEIVED AUG 15 1980

### FIELD INVOICE

| | |
|---|---|
| Open Hole Test | $ 550.00 |
| Misrun | $ |
| Straddle Test | $ |
| Jars | $ |
| Selective Zone | $ |
| Safety Joint | $ |
| Standby | $ |
| Evaluation | $ |
| Extra Packer | $ |
| Circ. Sub. | $ |
| Mileage | $ |
| Fluid Sampler | $ |
| Extra Charts | $ |
| TOTAL | $ 550.00 |

# WESTERN TESTING CO., INC.
## Pressure Data

Date 8-12 Test Ticket No. 5903

Recorder No. 2605 Capacity 4150 Location 3557 Ft.

Clock No. — Elevation 1280 KB Well Temperature 116 °F

| Point | | Pressure | | Time Given | Time Computed |
|---|---|---|---|---|---|
| A | Initial Hydrostatic Mud | 1734 | P.S.I. | | |
| B | First Initial Flow Pressure | 61 * | P.S.I. | Open Tool 9:00 AM | |
| C | First Final Flow Pressure | 63 | P.S.I. | First Flow Pressure 30 Mins. | 30 Mins. |
| D | Initial Closed-in Pressure | 1341 | P.S.I. | Initial Closed-in Pressure 45 Mins. | 51 Mins. |
| E | Second Initial Flow Pressure | 84 | P.S.I. | Second Flow Pressure 60 Mins. | 60 Mins. |
| F | Second Final Flow Pressure | 80 | P.S.I. | Final Closed-in Pressure 60 Mins. | Mins. |
| G | Final Closed-in Pressure | 1277 | P.S.I. | | |
| H | Final Hydrostatic Mud | 1711 | P.S.I. | | |

* Pressures questionable due to plugging Action

## PRESSURE BREAKDOWN

**First Flow Pressure**
Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

| Point Mins. | | Press. |
|---|---|---|
| P 1 | 0 | 61 * |
| P 2 | 5 | 59 * |
| P 3 | 10 | 59 * |
| P 4 | 15 | 71 * |
| P 5 | 20 | 63 |
| P 6 | 25 | 63 |
| P 7 | 30 | 63 |
| P 8 | 35 | |
| P 9 | 40 | |
| P10 | 45 | |
| P11 | 50 | |
| P12 | 55 | |
| P13 | 60 | |
| P14 | | |
| P15 | | |
| P16 | | |
| P17 | | |
| P18 | | |
| P19 | | |
| P20 | | |

**Initial Shut-In**
Breakdown: — Inc. of 3 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 63 |
| 3 | 453 |
| 6 | 717 |
| 9 | 884 |
| 12 | 1027 |
| 15 | 1106 |
| 18 | 1170 |
| 21 | 1209 |
| 24 | 1240 |
| 27 | 1260 |
| 30 | 1279 |
| 33 | 1296 |
| 36 | 1304 |
| 39 | 1315 |
| 42 | 1323 |
| 45 | 1332 |
| 48 | 1335 |
| 51 | 1341 |
| 54 | |
| 57 | |
| 60 | |

**Second Flow Pressure**
Breakdown: 12 Inc. of 5 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 84 |
| 5 | 67 |
| 10 | 65 |
| 15 | 65 |
| 20 | 80 * |
| 25 | 84 * |
| 30 | 80 |
| 35 | |
| 40 | |
| 45 | |
| 50 | |
| 55 | |
| 60 | 80 |
| 65 | |
| 70 | |
| 75 | |
| 80 | |
| 85 | |
| 90 | |

**Final Shut-In**
Breakdown: — Inc. of 3 mins. and a final inc. of 0 Min.

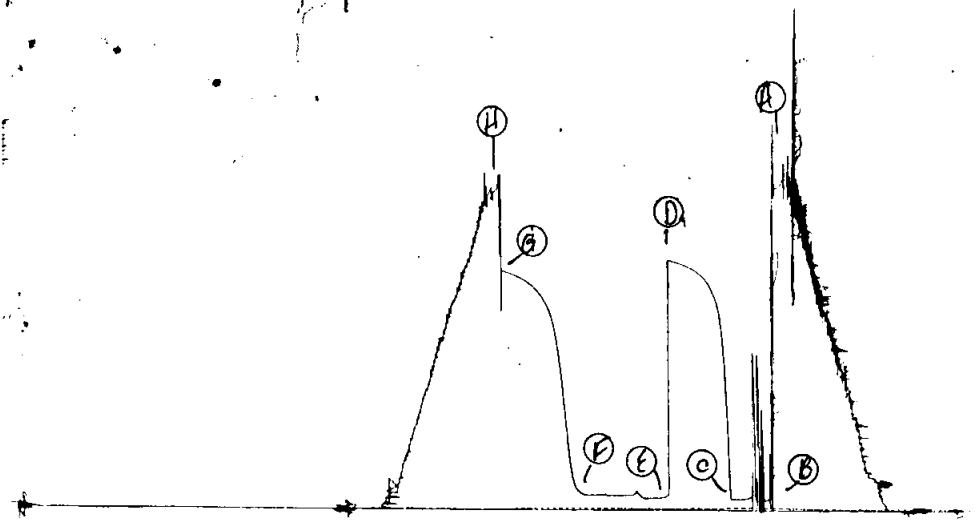
| Point Minutes | Press. |
|---|---|
| 0 | 80 |
| 3 | 95 |
| 6 | 122 |
| 9 | 197 |
| 12 | 335 |
| 15 | 474 |
| 18 | 643 |
| 21 | 786 |
| 24 | 912 |
| 27 | 1010 |
| 30 | 1072 |
| 33 | 1118 |
| 36 | 1151 |
| 39 | 1178 |
| 42 | 1196 |
| 45 | 1217 |
| 48 | 1232 |
| 51 | 1242 |
| 54 | 1252 |
| 57 | 1262 |
| 60 | 1271 |
| | 1277 |

63

WTC - 4

Lot #5503 — 2603

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Company Rains & Williamson Oil Co., Inc. Lease & Well No. Maxwell #1

Elevation 1280 Kelly Bushing Formation Mississippi Effective Pay ---- Ft. Ticket No. 5903

Date 8/12/80 Sec. 27 Twp. 31S Range 1E County Sumner State Kansas

Test Approved by H. Deane Jirrels Western Representative Kenny Kirkendall

Formation Test No. 2 Interval Tested from 3550 ft. to 3565 ft. Total Depth 3565 ft.

Packer Depth 3550 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3545 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3557 ft. Recorder Number 2605 Cap. 4150

Bottom Recorder Depth (Outside) 3560 ft. Recorder Number 10980 Cap. 4200

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Rains & Williamson Rig #3 Drill Collar Length 390 I. D. - in.

Mud Type chemical Viscosity 39 Weight Pipe Length - I. D. - in.

Weight 9.5 Water Loss 15.6 cc. Drill Pipe Length 3239 I. D. - in.

Chlorides 5,600 P.P.M. Test Tool Length 21 ft. Tool Size 5½ in.

Jars: Make No Serial Number - Anchor Length 15 ft. Size 5½ in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½XH in.

Blow: Weak initial flow; weak building to fair final flow period.

Recovered 180 ft. of gas TOP: 13% oil, 12% water; 75% mud; MIDDLE: 15% oil, 10% water: 75% mud; BOTTOM: 3% oil, 62% water; 35% mud.

Recovered 120 ft. of oil and gas cut mud

Recovered 60 ft. of oil and gas cut muddy water

Recovered ft. of

Recovered ft. of Chlorides 34,000 ppm

Remarks:

Time Set Packer(s) 9:00 A.M. P.M. Time Started Off Bottom 12:15 A.M. P.M. Maximum Temperature 116°

| | | | | |
|---|---|---|---|---|
| Initial Hydrostatic Pressure | | (A) 1734 P.S.I. | | |
| Initial Flow Period | Minutes 30 | (B) 61 * P.S.I. | to (C) 63 P.S.I. | |
| Initial Closed In Period | Minutes 51 | (D) 1341 P.S.I. | | |
| Final Flow Period | Minutes 60 | (E) 84 P.S.I. | to (F) 80 P.S.I. | |
| Final Closed In Period | Minutes 63 | (G) 1277 P.S.I. | | |
| Final Hydrostatic Pressure | | (H) 1711 P.S.I. | | |

# WESTERN TESTING CO., INC.

## Pressure Data

Date 8-12-80 Test Ticket No. 5903

Recorder No. 2605 Capacity 4150 Location 3557 Ft.

Clock No. Elevation 1280 Kelly Bushing Well Temperature 116 °F

| Point | | Pressure |
|---|---|---|
| A | Initial Hydrostatic Mud | 1734 P.S.I. |
| B | First Initial Flow Pressure | 61* P.S.I. |
| C | First Final Flow Pressure | 63 P.S.I. |
| D | Initial Closed-in Pressure | 1341 P.S.I. |
| E | Second Initial Flow Pressure | 84 P.S.I. |
| F | Second Final Flow Pressure | 80 P.S.I. |
| G | Final Closed-in Pressure | 1277 P.S.I. |
| H | Final Hydrostatic Mud | 1711 P.S.I. |

| | Time Given | Time Computed |
|---|---|---|
| Open Tool | 9:00A M. | |
| First Flow Pressure | 30 Mins. | 30 Mins. |
| Initial Closed-in Pressure | 45 Mins. | 51 Mins. |
| Second Flow Pressure | 60 Mins. | 60 Mins. |
| Final Closed-in Pressure | 60 Mins. | 63 Mins. |

*Pressures questionable due to plugging action

## PRESSURE BREAKDOWN

**First Flow Pressure**
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

| Point Mins. | Press. |
|---|---|
| P 1 0 | 61* |
| P 2 5 | 59* |
| P 3 10 | 59* |
| P 4 15 | 71* |
| P 5 20 | 63 |
| P 6 25 | 63 |
| P 7 30 | 63 |
| P 8 | |
| P 9 | |
| P10 | |
| P11 | |
| P12 | |
| P13 | |
| P14 | |
| P15 | |
| P16 | |
| P17 | |
| P18 | |
| P19 | |
| P20 | |

**Initial Shut-In**
Breakdown: 17 Inc.
of 3 mins. and a
final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 63 |
| 3 | 453 |
| 6 | 717 |
| 9 | 884 |
| 12 | 1027 |
| 15 | 1106 |
| 18 | 1170 |
| 21 | 1209 |
| 24 | 1240 |
| 27 | 1260 |
| 30 | 1279 |
| 33 | 1296 |
| 36 | 1304 |
| 39 | 1315 |
| 42 | 1323 |
| 45 | 1332 |
| 48 | 1335 |
| 51 | 1341 |

**Second Flow Pressure**
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 84 |
| 5 | 67 |
| 10 | 65 |
| 15 | 65 |
| 20 | 80* |
| 25 | 84* |
| 30 | 80 |
| 35 | 80 |
| 40 | 80 |
| 45 | 80 |
| 50 | 80 |
| 55 | 80 |
| 60 | 80 |

**Final Shut-In**
Breakdown: 21 Inc.
of 3 mins. and a
final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 80 |
| | 95 |
| 6 | 122 |
| 9 | 197 |
| 12 | 335 |
| 15 | 474 |
| 18 | 643 |
| 21 | 786 |
| 24 | 912 |
| 27 | 1010 |
| 30 | 1072 |
| 33 | 1118 |
| 36 | 1151 |
| 39 | 1178 |
| 42 | 1196 |
| 45 | 1217 |
| 48 | 1232 |
| 51 | 1242 |
| 54 | 1252 |
| 57 | 1262 |
| 60 | 1271 |
| 63 | 1277 |