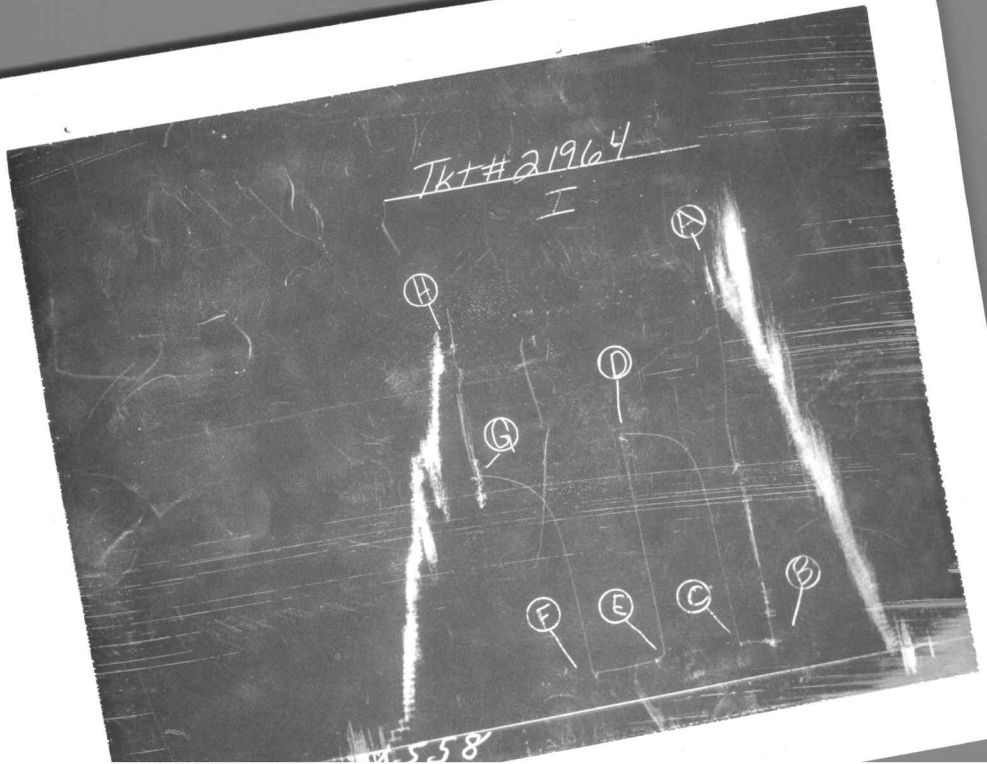

Tkt#21964
I
A
H
D
G
F
E
C
B

Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Dunne-Gardner Petroleum, Inc. Lease & Well No. Graber #1

Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 21964

Date 6-19-77 Sec. 9 Twp. 29S Range 6W County Kingman State Kansas

Test Approved by Charles R. King Western Representative Sam McClune

Formation Test No. 1 O.K. X Misrun - Interval Tested From 4058' to 4083' Total Depth 4083'

Size Main Hole 77/8 Rat Hole - Conv. X B.T. - Damaged X Yes no charge No Conv. B.T. X Damaged X Yes no charge No

Top Packer Depth 4052 Ft. Size 6 3/4 Bottom Packer Depth 4057 Ft. Size 6 3/4

Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -

Tool Size 5½ OD Tool Joint Size 4½ FH Anchor Length 25 Ft. Size 5½ OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4063 Ft. Clock No. 6800 Depth 4067 Ft. Clock No. 6896

Top Make Kuster Cap. 4200 No. 1558 ~~Outside~~ Inside Bottom Make Kuster Cap. 3150 No. 1564 ~~Inside~~ Outside

Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 12:43 A M

Tool Open I.F.P. From 12:45A M. to 1:15 A M. - Hr. 30 Min. From (B) 173 P.S.I. To (C) 200 P.S.I.

Tool Closed I.C.I.P. From 1:15A M. to 2:15A M. 1 Hr. - Min (D) 1471 P.S.I.

Tool Open F.F.P. From 2:15A M. to 3:15A M. 1 Hr. - Min. From (E) 221 P.S.I. To (F) 197 P.S.I.

Tool Closed F.C.I.P. From 3:15A M. to 4:15A M. 1 Hr. - Min. (G) 1389 P.S.I.

Initial Hydrostatic Pressure (A) 2142 P.S.I. Final Hydrostatic Pressure (H) 2029 P.S.I. Maximum Temp. 134

## INFORMATION

BLOW Strong blow throughout test. Gas to surface in 7 minutes. See attached sheet for gas measurements.

Did Well Flow X Yes - No Recovery Total Ft. 110' heavy oil & gas cut mud, 120' oil & gas cut mud, 60' oil & gas cut watery mud, 60' muddy water, 350'total fluid, 3691' gas.

Reversed Out - Yes X No Mud Type starch Viscosity 39 Weight 9.7 Water Loss 16.0 cc. Chlorides 45,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? NO Where? -

DRILLING CONTRACTOR Company Tools Length Drill Pipe? 3141 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½FH In.

Length Weight Pipe 900 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 4½FH In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 42 Ft.

Remarks: Sprayed mud at 3:05 in final flow period.

# WESTERN TESTING CO., INC.

## Pressure Data

Date 6-19-77 Test Ticket No. 21964

Recorder No. 1558 Capacity 4200 Location 4063 Ft.

Clock No. 6800 Elevation - Well Temperature 134 °F

| Point | | Pressure | | | Time Given | Time Computed |
|---|---|---|---|---|---|---|
| A | Initial Hydrostatic Mud | 2142 P.S.I. | | Open Tool | 12:43 A M | |
| B | First Initial Flow Pressure | 173 P.S.I. | | First Flow Pressure | 30 Mins. | 25 Mins. |
| C | First Final Flow Pressure | 200 P.S.I. | | Initial Closed-in Pressure | 60 Mins. | 57 Mins. |
| D | Initial Closed-in Pressure | 1471 P.S.I. | | Second Flow Pressure | 60 Mins. | 60 Mins. |
| E | Second Initial Flow Pressure | 221 P.S.I. | | Final Closed-in Pressure | 60 Mins. | 57 Mins. |
| F | Second Final Flow Pressure | 197 P.S.I. | | | | |
| G | Final Closed-in Pressure | 1389 P.S.I. | | | | |
| H | Final Hydrostatic Mud | 2029 P.S.I. | | | | |

## PRESSURE BREAKDOWN

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

**Initial Shut-In**
Breakdown: 19 Inc.
of 3 mins. and a
final inc. of 0 Min.

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

**Final Shut-In**
Breakdown: 19 Inc.
of 3 mins. and a
final inc. of 0 Min.

| Point | Mins. | Press. | Point | Minutes | Press. | Point | Minutes | Press. | Point | Minutes | Press. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| P 1 | 0 | 173 | | 0 | 200 | | 0 | 221 | | 0 | 197 |
| P 2 | 5 | 186 | | 3 | 1088 | | 5 | 207 | | 3 | 879 |
| P 3 | 10 | 190 | | 6 | 1226 | | 10 | 200 | | 6 | 1048 |
| P 4 | 15 | 196 | | 9 | 1294 | | 15 | 196 | | 9 | 1130 |
| P 5 | 20 | 200 | | 12 | 1334 | | 20 | 196 | | 12 | 1182 |
| P 6 | 25 | 200 | | 15 | 1364 | | 25 | 194 | | 15 | 1215 |
| P 7 | | | | 18 | 1382 | | 30 | 192 | | 18 | 1244 |
| P 8 | | | | 21 | 1399 | | 35 | 193 | | 21 | 1267 |
| P 9 | | | | 24 | 1410 | | 40 | 195 | | 24 | 1286 |
| P10 | | | | 27 | 1420 | | 45 | 196 | | 27 | 1303 |
| P11 | | | | 30 | 1429 | | 50 | 197 | | 30 | 1318 |
| P12 | | | | 33 | 1435 | | 55 | 197 | | 33 | 1326 |
| P13 | | | | 36 | 1441 | | 60 | 197 | | 36 | 1338 |
| P14 | | | | 39 | 1450 | | | | | 39 | 1347 |
| P15 | | | | 42 | 1452 | | | | | 42 | 1357 |
| P16 | | | | 45 | 1456 | | | | | 45 | 1366 |
| P17 | | | | 48 | 1462 | | | | | 48 | 1372 |
| P18 | | | | 51 | 1466 | | | | | 51 | 1378 |
| P19 | | | | 54 | 1468 | | | | | 54 | 1382 |
| P20 | | | | 57 | 1471 | | | | | 57 | 1389 |

Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

# GAS FLOW REPORT

Date 6-19-77 Ticket 21964 Company Dunne-Gardner Petroleum, Inc.

Well Name and No. Graber #1 Dst No. 1 Interval Tested 4058' - 4083'

County Kingman State Kansas Sec. 9 Twp. 29S Rg. 6W

| Time Gauge Pre-Flow | Time Gauge in Min. | P.S.I. on Merla Orifice Well Tester | P.S.I. on Pitot Tester | P.S.I. on Side Static Tester | P.S.I. on U-Tube Tester | Description of Flow |
|---|---|---|---|---|---|---|
| Gas to surface in 7 minutes. | | | **PRE FLOW** | | | |
| 12:55AM | 10 min. | 11 inches | of water | | 2" choke | 458,000 C.F.P.D. |
| 1:05AM | 20 min. | 13 inches | of water | | 2" choke | 481,000 C.F.P.D. |
| 1:15AM | 30 min. | 14 inches | of water | | 2" choke | 517,000 C.F.P.D. |
| | | | | | | |
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| | | | | | | |
| | | | **SECOND FLOW** | | | |
| 2:25AM | 10 min. | 1.5 PSIG | | | 2" choke | 887,000 C.F.P.D. |
| 2:35AM | 20 min. | 1.5 PSIG | | | 2" choke | 887,000 C.F.P.D. |
| 2:45AM | 30 min. | 1 PSIG | | | 2" choke | 734,000 C.F.P.D. |
| 2:55AM | 40 min. | 1 PSIG | | | 2" choke | 734,000 C.F.P.D. |
| 3:05AM | 50 min. | 1 PSIG | | | 2" choke | 734,000 C.F.P.D. |
| 3:15AM | 60 min. | 1 PSIG | | | 2" choke | 734,000 C.F.P.D. |
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## GAS BOTTLE

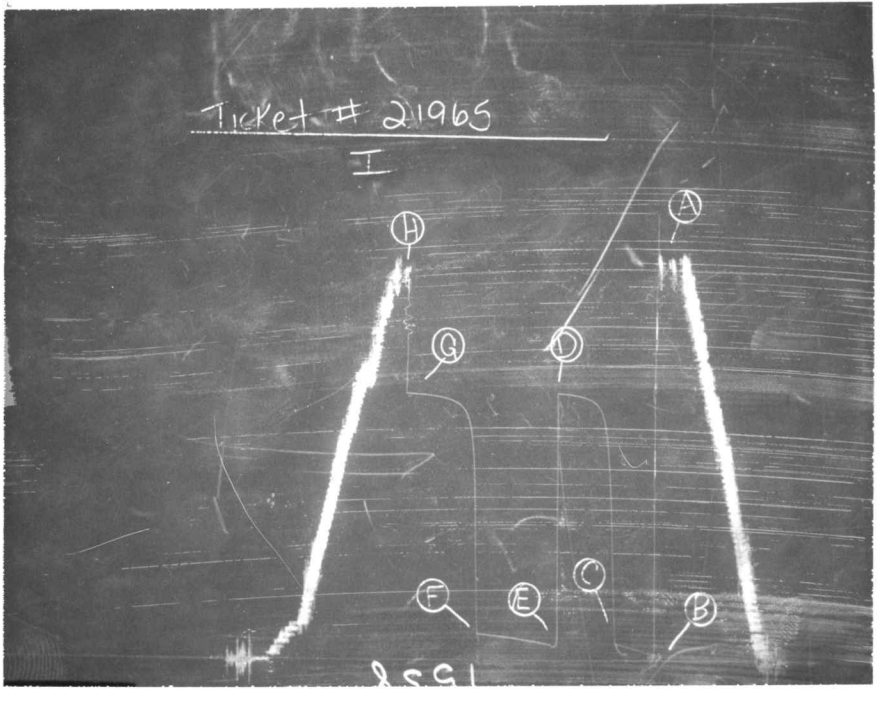
Serial No. _____ Date Bottle Filled 6-19-77 Date to be Invoiced 6-19-77

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of $75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Dunne-Gardner Petroleum, Inc.

Authorized by Charles R. King


Ticket # 21965
I
H
A
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Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Dunne-Gardner Petroleum, Inc. Lease & Well No. Graber #1

Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 21965

Date 6-20-77 Sec. 9 Twp. 29S Range 6W County Kingman State Kansas

Test Approved by Charles R. King Western Representative Sam McClune

Formation Test No. 2 O.K. X Misrun - Interval Tested From 4081' to 4090' Total Depth 4090'

Size Main Hole 77/8 Rat Hole - Conv. X B.T. - Damaged - Yes - No Conv. - B.T. X Damaged - Yes - No

Top Packer Depth 4081 Ft. Size 6 3/4 Bottom Packer Depth - Ft. Size -

Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -

Tool Size 5½ OD Tool Joint Size 4½ FH Anchor Length 9 Ft. Size 5½ OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4084 Ft. Clock No. 6800 Depth 4087 Ft. Clock No. 6896

Top Make Kuster Cap. 4200 No. 1558 ~~Inside~~ Outside Bottom Make Kuster Cap. 3150 No. 1564 ~~Inside~~ Outside

Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 3:08 PM

Tool Open I.F.P. From 3:10 PM. to 3:40 PM. - Hr. 30 Min. From (B) 34 P.S.I. To (C) 95 P.S.I.

Tool Closed I.C.I.P. From 3:40PM. to 4:40 PM. 1 Hr. - Min (D) 1500 P.S.I.

Tool Open F.F.P. From 4:40 PM. to 5:40 PM. 1 Hr. - Min. From (E) 77 P.S.I. To (F) 146 P.S.I.

Tool Closed F.C.I.P. From 5:40PM. to 6:40 PM. 1 Hr. - Min. (G) 1500 P.S.I.

Initial Hydrostatic Pressure (A) 2207 P.S.I. Final Hydrostatic Pressure (H) 2156 P.S.I. Maximum Temp. 134

## INFORMATION

BLOW Strong blow throughout test.

Did Well Flow X Yes - No Recovery Total Ft. 30' oil & gas cut mud, 60' heavy gas & oil cut mud, 260' muddy gassy oil, 50' gassy oil cut saltwater, 400' total recovery. Water sample 33,000 P.P.M. - 2% oil, 4% mud, 94% water.

Reversed Out - Yes X No Mud Type starch Viscosity 45 Weight 9.6 Water Loss 16.0 cc. Chlorides 50,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer no Did Packers Hold? yes Did Tool Plug? no Where? -

DRILLING CONTRACTOR Company tools Length Drill Pipe? 3461 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½FH In.

Length Weight Pipe 600 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 4½FH In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 24 Ft.

Remarks:

## WESTERN TESTING CO., INC.

### Pressure Data

Date 6-20-77 Test Ticket No. 21965

Recorder No. 1558 Capacity 4200 Location 4084 Ft.

Clock No. 6800 Elevation - Well Temperature 134 °F

| Point | | Pressure | | | Time Given | Time Computed |
|---|---|---|---|---|---|---|
| A | Initial Hydrostatic Mud | 2207 | P.S.I. | Open Tool | 3:08 PM | |
| B | First Initial Flow Pressure | 34 | P.S.I. | First Flow Pressure | 30 Mins. | 30 Mins. |
| C | First Final Flow Pressure | 95 | P.S.I. | Initial Closed-in Pressure | 60 Mins. | 48 Mins. |
| D | Initial Closed-in Pressure | 1500 | P.S.I. | Second Flow Pressure | 60 Mins. | 60 Mins. |
| E | Second Initial Flow Pressure | 77 | P.S.I. | Final Closed-in Pressure | 60 Mins. | 57 Mins. |
| F | Second Final Flow Pressure | 146 | P.S.I. | | | |
| G | Final Closed-in Pressure | 1500 | P.S.I. | | | |
| H | Final Hydrostatic Mud | 2156 | P.S.I. | | | |

### PRESSURE BREAKDOWN

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

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

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

**Final Shut-In**
Breakdown: 18 Inc. of 3 mins. and a final inc. of 0 Min.

| Point | Mins. | Press. | Point | Minutes | Press. | Point | Minutes | Press. | Point | Minutes | Press. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| P 1 | 0 | 34 | | 0 | 95 | | 0 | 77 | | 0 | 146 |
| P 2 | 5 | 42 | | 3 | 441 | | 5 | 89 | | 3 | 946 |
| P 3 | 10 | 53 | | 6 | 808 | | 10 | 96 | | 6 | 1251 |
| P 4 | 15 | 63 | | 9 | 1215 | | 15 | 102 | | 9 | 1357 |
| P 5 | 20 | 74 | | 12 | 1351 | | 20 | 110 | | 12 | 1408 |
| P 6 | 25 | 82 | | 15 | 1410 | | 25 | 116 | | 15 | 1431 |
| P 7 | 30 | 95 | | 18 | 1441 | | 30 | 121 | | 18 | 1447 |
| P 8 | | | | 21 | 1456 | | 35 | 128 | | 21 | 1458 |
| P 9 | | | | 24 | 1467 | | 40 | 132 | | 24 | 1466 |
| P10 | | | | 27 | 1477 | | 45 | 136 | | 27 | 1475 |
| P11 | | | | 30 | 1482 | | 50 | 139 | | 30 | 1479 |
| P12 | | | | 33 | 1487 | | 55 | 142 | | 33 | 1483 |
| P13 | | | | 36 | 1492 | | 60 | 146 | | 36 | 1487 |
| P14 | | | | 39 | 1495 | | | | | 39 | 1490 |
| P15 | | | | 42 | 1497 | | | | | 42 | 1492 |
| P16 | | | | 45 | 1498 | | | | | 45 | 1496 |
| P17 | | | | 48 | 1500 | | | | | 48 | 1498 |
| P18 | | | | | | | | | | 51 | 1500 |
| P19 | | | | | | | | | | 54 | 1500 |
| P20 | | | | | | | | | | 57 | 1500 |

Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

# GAS FLOW REPORT

Date 6-20-77 Ticket 21965 Company Dunne-Gardner Petroleum, Inc.

Well Name and No. Graber #1 Dst No. 2 Interval Tested 4081' - 4090'

County Kingman State Kansas Sec. 9 Twp. 29S Rg. 6W

| Time Gauge Pre-Flow | Time Gauge in Min. | P.S.I. on Merla Orifice Well Tester | P.S.I. on Pitot Tester | P.S.I. on Side Static Tester | P.S.I. on U-Tube Tester | Description of Flow |
|---|---|---|---|---|---|---|
| **PRE FLOW** | | | | | | |
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| **SECOND FLOW** | | | | | | |
| 4:50 PM | 10 min. | 5 inches | of water | | 3/4" choke | 31,600 C.F.P.D. |
| 5:00 PM | 20 min. | 8 inches | of water | | 3/4" choke | 40,000 C.F.P.D. |
| 5:10 PM | 30 min. | 10 inches | of water | | 3/4" choke | 44,800 C.F.P.D. |
| 5:20 PM | 40 min. | 11 inches | of water | | 3/4" choke | 47,200 C.F.P.D. |
| 5:30 PM | 50 min. | 12 inches | of water | | 3/4" choke | 49,300 C.F.P.D. |
| 5:40 PM | 60 min. | 14 inches | of water | | 3/4" choke | 53,300 C.F.P.D. |
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## GAS BOTTLE

Serial No. _____ Date Bottle Filled 6-20-77 Date to be Invoiced 6-20-77

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of $75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Dunne-Gardner Petroleum, Inc.

Authorized by Charles R. King