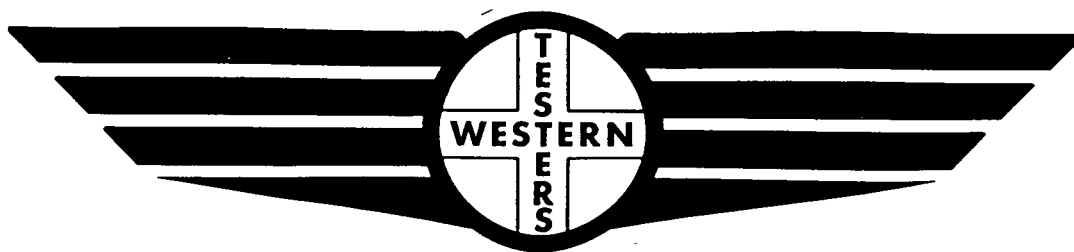


# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone **1 - 800-688-7021**

## DST REPORT

### GENERAL INFORMATION

|            |                           |            |             |
|------------|---------------------------|------------|-------------|
| DATE       | : 5/9/93                  | TICKET     | : 18690     |
| CUSTOMER   | : HONEY OIL COMPANY, INC. | LEASE      | : FOSTER    |
| WELL       | : #1                      | TEST:      | 1           |
| ELEVATION: |                           | GEOLOGIST: | BAKER       |
| SECTION    | : 27                      | FORMATION: | MISSISSIPPI |
| RANGE      | : 8W                      | TOWNSHIP   | : 24S       |
| GAUGE SN#: | 10979                     | STATE      | : KS        |
|            |                           | CLOCK      | : 12        |
| COUNTY:    | RENO                      |            |             |
| RANGE      | : 4100                    |            |             |

### WELL INFORMATION

|                            |            |                    |            |            |           |
|----------------------------|------------|--------------------|------------|------------|-----------|
| PERFORATION INTERVAL FROM: | 3765.00 ft | TO:                | 3789.00 ft | TVD:       | 3789.0 ft |
| DEPTH OF SELECTIVE ZONE:   |            |                    |            | TEST TYPE: | GAS       |
| DEPTH OF RECORDERS:        | 3783.0 ft  |                    | 3786.0 ft  |            |           |
| TEMPERATURE:               | 119.0      |                    |            |            |           |
| DRILL COLLAR LENGTH:       | 0.0 ft     | I.D.:              |            | 0.000 in   |           |
| WEIGHT PIPE LENGTH :       | 0.0 ft     | I.D.:              |            | 0.000 in   |           |
| DRILL PIPE LENGTH :        | 3745.0 ft  | I.D.:              |            | 3.800 in   |           |
| TEST TOOL LENGTH :         | 20.0 ft    | TOOL SIZE :        |            | 5.500 in   |           |
| ANCHOR LENGTH :            | 24.0 ft    | ANCHOR SIZE:       |            | 5.500 in   |           |
| SURFACE CHOKE SIZE :       | 0.750 in   | BOTTOM CHOKE SIZE: |            | 0.750 in   |           |
| MAIN HOLE SIZE :           | 7.875 in   | TOOL JOINT SIZE :  |            | 4.5XH      |           |
| PACKER DEPTH:              | 3760.0 ft  | SIZE:              |            | 6.630 in   |           |
| PACKER DEPTH:              | 3765.0 ft  | SIZE:              |            | 6.630 in   |           |
| PACKER DEPTH:              | 0.0 ft     | SIZE:              |            | 0.000 in   |           |
| PACKER DEPTH:              | 0.0 ft     | SIZE:              |            | 0.000 in   |           |

### MUD INFORMATION

|                 |            |                |          |
|-----------------|------------|----------------|----------|
| DRILLING CON. : | DUKE RIG 5 | VISCOSITY :    | 62.00 cp |
| MUD TYPE :      | CHEMICAL   | WATER LOSS:    | 6.800 cc |
| WEIGHT :        | 8.800 ppg  |                |          |
| CHLORIDES :     | 3000 ppm   | SERIAL NUMBER: |          |
| JARS-MAKE :     |            | REVERSED OUT?: | NO       |
| DID WELL FLOW?: | NO         |                |          |

### COMMENTS

#### Comment

INITIAL FLOW PERIOD WEAK TO VERY STRONG BLOW-  
BOTTOM OF BUCKET IN 1 MINUTE. FINAL FLOW PERIOD  
STRONG BLOW. GAS TO SURFACE IN 22 MINUTES.

## DST REPORT (CONTINUED)

### COMMENTS (CONTINUED)

Comment

SEE GAS SHEET ATTACHED.

### FLUID RECOVERY

| Feet of<br>Fluid | %<br>Oil | %<br>Gas | %<br>Water | %<br>Mud | Comments                |
|------------------|----------|----------|------------|----------|-------------------------|
| 132.0            | 30.0     | 50.0     | 0.0        | 20.0     | GASSY OIL CUT MUD       |
| 170.0            | 0.0      | 0.0      | 0.0        | 100.0    | SALTWATER               |
| 0.0              | 0.0      | 0.0      | 0.0        | 0.0      | 3563 FT GAS ABOVE FLUID |

### RATE INFORMATION

|               |            |  |                     |               |
|---------------|------------|--|---------------------|---------------|
| OIL VOLUME:   | 0.5554 STB |  | TOTAL FLOW TIME:    | 90.0000 min.  |
| GAS VOLUME:   | 5.1980 SCF |  | AVERAGE OIL RATE:   | 14.8118 STB/D |
| MUD VOLUME:   | 2.7548 STB |  | AVERAGE WATER RATE: | 0.0000 STB/D  |
| WATER VOLUME: | 0.0000 STB |  |                     |               |
| TOTAL FLUID : | 3.3102 STB |  |                     |               |

### FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1780.00

| Description     | Duration | p1    | p End   |
|-----------------|----------|-------|---------|
| INITIAL FLOW    | 30.00    | 65.00 | 85.00   |
| INITIAL SHUT-IN | 60.00    |       | 1175.00 |
| FINAL FLOW      | 60.00    | 95.00 | 155.00  |
| FINAL SHUT-IN   | 60.00    |       | 1120.00 |

FINAL HYDROSTATIC PRESSURE: 1770.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1813.00

| Description     | Duration | p1     | p End   |
|-----------------|----------|--------|---------|
| INITIAL FLOW    | 30.00    | 68.00  | 89.00   |
| INITIAL SHUT-IN | 63.00    |        | 1191.00 |
| FINAL FLOW      | 60.00    | 110.00 | 162.00  |
| FINAL SHUT-IN   | 75.00    |        | 1135.00 |

FINAL HYDROSTATIC PRESSURE: 1771.00

# GAS FLOW REPORT

## GENERAL INFORMATION

|                                    |                        |
|------------------------------------|------------------------|
| DATE : 5/9/93                      | TICKET : 18690         |
| CUSTOMER : HONEY OIL COMPANY, INC. | LEASE : FOSTER         |
| WELL : #1                          | GEOLOGIST: BAKER       |
| ELEVATION:                         | FORMATION: MISSISSIPPI |
| SECTION : 27                       | TOWNSHIP : 24S         |
| RANGE : 8W                         | STATE : KS             |
| GAUGE SN#: 10979                   | CLOCK : 12             |
| COUNTY: RENO                       |                        |
| RANGE : 4100                       |                        |

## PRE FLOW

| Time Guage<br>(min) | Tester<br>Type | Orifice<br>Size | Pressure | Flow Desc. |
|---------------------|----------------|-----------------|----------|------------|
|---------------------|----------------|-----------------|----------|------------|

## SECOND FLOW

| Time Guage<br>(min) | Tester<br>Type | Orifice<br>Size | Pressure   | Flow Desc. |
|---------------------|----------------|-----------------|------------|------------|
| 25 MIN              | MERLA          | 0.380           | 4" WATER   | 7140 SCF/D |
| 35 MIN              | MERLA          | 0.380           | 5" WATER   | 7980 SCF/D |
| 45 MIN              | MERLA          | 0.380           | 3.5" WATER | 6680 SCF/D |
| 55 MIN              | MERLA          | 0.380           | 3" WATER   | 6180 SCF/D |
| 65 MIN              | MERLA          | 0.380           | 3" WATER   | 6180 SCF/D |

# PRESSURE TRANSIENT REPORT

## GENERAL INFORMATION

|                                    |                        |
|------------------------------------|------------------------|
| DATE : 5/9/93                      | TICKET : 18690         |
| CUSTOMER : HONEY OIL COMPANY, INC. | LEASE : FOSTER         |
| WELL : #1                          | GEOLOGIST: BAKER       |
| ELEVATION:                         | FORMATION: MISSISSIPPI |
| SECTION : 27                       | TOWNSHIP : 24S         |
| RANGE : 8W                         | STATE : KS             |
| GAUGE SN#: 10979                   | CLOCK : 12             |
| COUNTY: RENO                       |                        |
| RANGE : 4100                       |                        |

## INITIAL FLOW

| Time<br>(min) | Pressure | Delta P |
|---------------|----------|---------|
| 0.00          | 68.00    | 68.00   |
| 5.00          | 68.00    | 0.00    |
| 10.00         | 68.00    | 0.00    |
| 15.00         | 71.00    | 3.00    |
| 20.00         | 76.00    | 5.00    |
| 25.00         | 82.00    | 6.00    |
| 30.00         | 89.00    | 7.00    |

## INITIAL SHUT IN

| Time<br>(min) | Pressure | Delta P | Horner T |
|---------------|----------|---------|----------|
| 3.00          | 323.00   | 323.00  | 0.00     |
| 6.00          | 536.00   | 213.00  | 0.00     |
| 9.00          | 715.00   | 179.00  | 0.00     |
| 12.00         | 880.00   | 165.00  | 0.00     |
| 15.00         | 966.00   | 86.00   | 0.00     |
| 18.00         | 1023.00  | 57.00   | 0.00     |
| 21.00         | 1059.00  | 36.00   | 0.00     |
| 24.00         | 1091.00  | 32.00   | 0.00     |
| 27.00         | 1107.00  | 16.00   | 0.00     |
| 30.00         | 1124.00  | 17.00   | 0.00     |
| 33.00         | 1136.00  | 12.00   | 0.00     |
| 36.00         | 1147.00  | 11.00   | 0.00     |
| 39.00         | 1153.00  | 6.00    | 0.00     |
| 42.00         | 1160.00  | 7.00    | 0.00     |
| 45.00         | 1162.00  | 2.00    | 0.00     |
| 48.00         | 1166.00  | 4.00    | 0.00     |
| 51.00         | 1172.00  | 6.00    | 0.00     |
| 54.00         | 1178.00  | 6.00    | 0.00     |
| 57.00         | 1182.00  | 4.00    | 0.00     |

# PRESSURE TRANSIENT REPORT (CONTINUED)

## INITIAL SHUT IN (CONTINUED)

| <u>Time<br/>(min)</u> | <u>Pressure</u> | <u>Delta P</u> | <u>Horner T</u> |
|-----------------------|-----------------|----------------|-----------------|
| 60.00                 | 1186.00         | 4.00           | 0.00            |
| 63.00                 | 1191.00         | 5.00           | 0.00            |

## FINAL FLOW

| <u>Time<br/>(min)</u> | <u>Pressure</u> | <u>Delta P</u> |
|-----------------------|-----------------|----------------|
| 0.00                  | 110.00          | 110.00         |
| 5.00                  | 110.00          | 0.00           |
| 10.00                 | 110.00          | 0.00           |
| 15.00                 | 116.00          | 6.00           |
| 20.00                 | 122.00          | 6.00           |
| 25.00                 | 128.00          | 6.00           |
| 30.00                 | 132.00          | 4.00           |
| 35.00                 | 138.00          | 6.00           |
| 40.00                 | 142.00          | 4.00           |
| 45.00                 | 150.00          | 8.00           |
| 50.00                 | 156.00          | 6.00           |
| 55.00                 | 159.00          | 3.00           |
| 60.00                 | 162.00          | 3.00           |

## FINAL SHUT IN

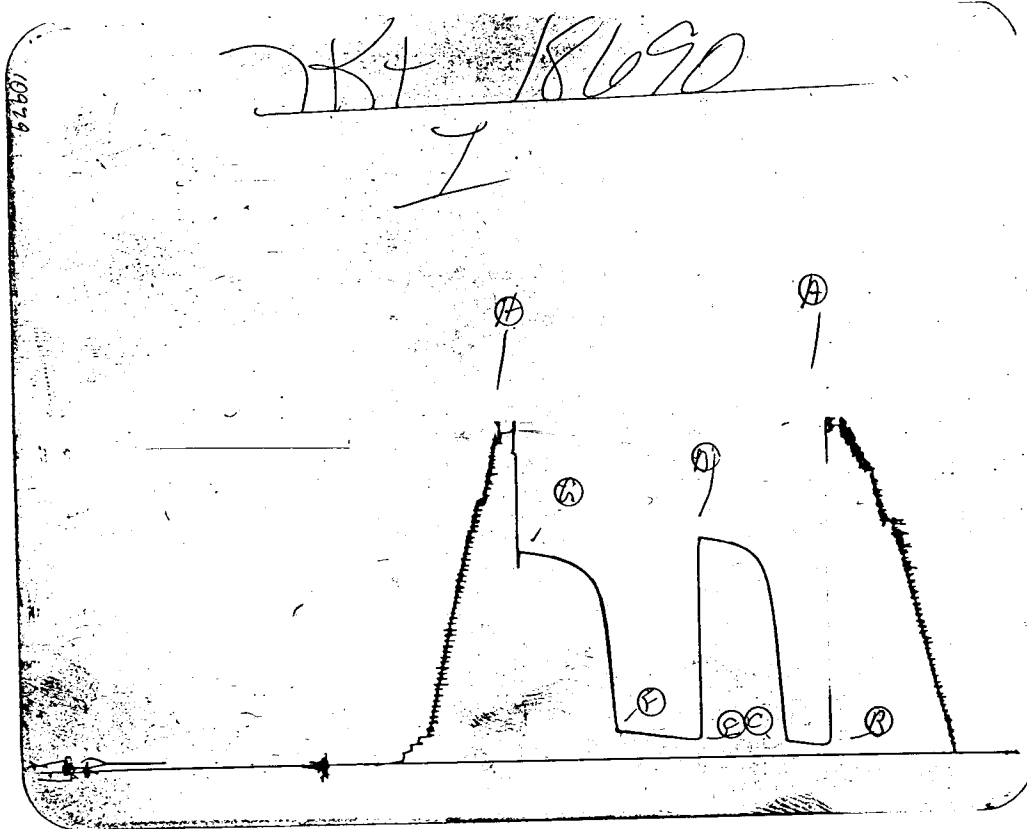
| <u>Time<br/>(min)</u> | <u>Pressure</u> | <u>Delta P</u> | <u>Horner T</u> |
|-----------------------|-----------------|----------------|-----------------|
| 3.00                  | 322.00          | 322.00         | 0.00            |
| 6.00                  | 587.00          | 265.00         | 0.00            |
| 9.00                  | 754.00          | 167.00         | 0.00            |
| 12.00                 | 853.00          | 99.00          | 0.00            |
| 15.00                 | 921.00          | 68.00          | 0.00            |
| 18.00                 | 955.00          | 34.00          | 0.00            |
| 21.00                 | 994.00          | 39.00          | 0.00            |
| 24.00                 | 1011.00         | 17.00          | 0.00            |
| 27.00                 | 1032.00         | 21.00          | 0.00            |
| 30.00                 | 1045.00         | 13.00          | 0.00            |
| 33.00                 | 1061.00         | 16.00          | 0.00            |
| 36.00                 | 1072.00         | 11.00          | 0.00            |
| 39.00                 | 1077.00         | 5.00           | 0.00            |
| 42.00                 | 1087.00         | 10.00          | 0.00            |
| 45.00                 | 1097.00         | 10.00          | 0.00            |

PRESSURE TRANSIENT REPORT (CONTINUED)

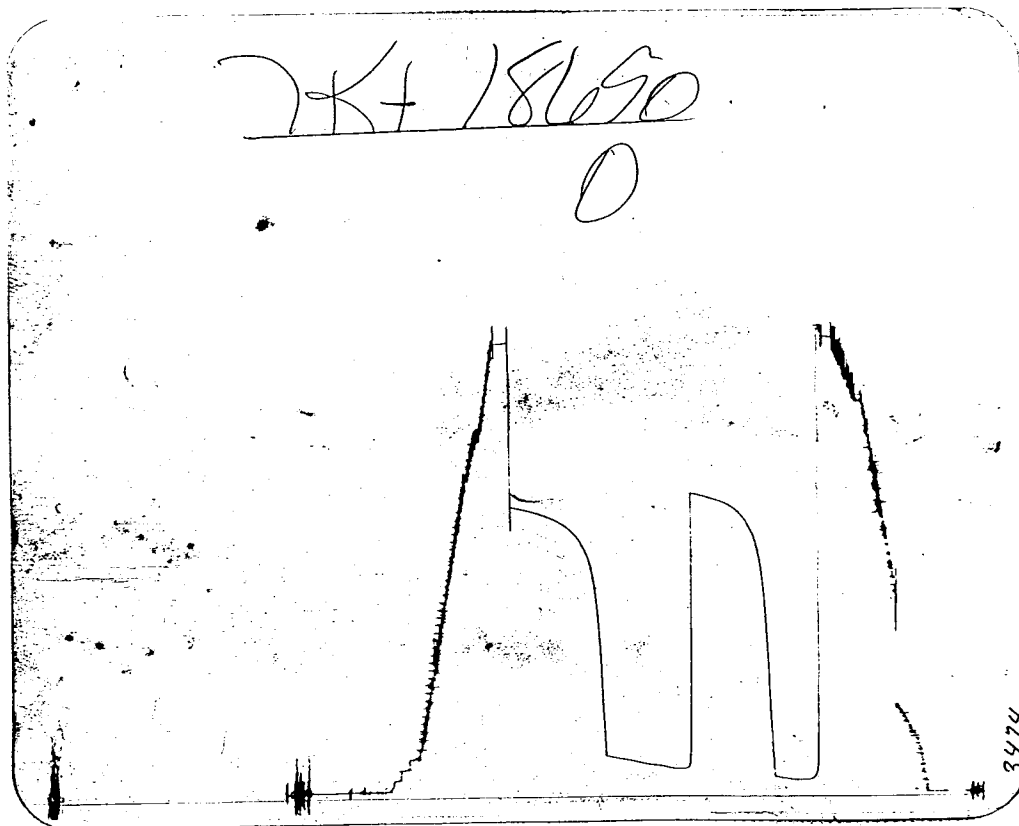
FINAL SHUT IN (CONTINUED)

| <u>Time<br/>(min)</u> | <u>Pressure</u> | <u>Delta P</u> | <u>Horner T</u> |
|-----------------------|-----------------|----------------|-----------------|
| 48.00                 | 1102.00         | 5.00           | 0.00            |
| 51.00                 | 1107.00         | 5.00           | 0.00            |
| 54.00                 | 1113.00         | 6.00           | 0.00            |
| 57.00                 | 1117.00         | 4.00           | 0.00            |
| 60.00                 | 1119.00         | 2.00           | 0.00            |
| 63.00                 | 1123.00         | 4.00           | 0.00            |
| 66.00                 | 1128.00         | 5.00           | 0.00            |
| 69.00                 | 1131.00         | 3.00           | 0.00            |
| 72.00                 | 1133.00         | 2.00           | 0.00            |
| 75.00                 | 1135.00         | 2.00           | 0.00            |





Inside Recorder



Outside Recorder



WESTERN TESTING CO., INC.  
FORMATION TESTING

TICKET N<sup>o</sup> 18690

P. O. BOX 1599 PHONE (316) 262-5861  
WICHITA, KANSAS 67201

Elevation \_\_\_\_\_ Formation Miss Eff. Pay \_\_\_\_\_ Ft.

District Augusta Date 5-9-93 Customer Order No. \_\_\_\_\_  
COMPANY NAME Honey Oil Company, Inc  
ADDRESS 401 East Douglas - Suite 505 Wichita Ks 67202  
LEASE AND WELL NO. Foster #1 COUNTY Reno STATE KS Sec. 27 Twp. 24 Rge. 8W  
Mail Invoice To Same Co. Name #1 Foster Address \_\_\_\_\_ No. Copies Requested \_\_\_\_\_  
Mail Charts To Same Address \_\_\_\_\_ No. Copies Requested \_\_\_\_\_

Formation Test No. DSI #1 Interval Tested From 3765 ft. to 3789 ft. Total Depth 3789 ft.  
Packer Depth 3760 ft. Size 6 5/8 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Packer Depth 3765 ft. Size 6 5/8 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Depth of Selective Zone Set \_\_\_\_\_  
Top Recorder Depth (Inside) 3783 ft. Recorder Number 10979 Cap. 4100  
Bottom Recorder Depth (Outside) 3786 ft. Recorder Number 3474 Cap. 3000  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_  
Drilling Contractor Duke Rig 5 Drill Collar Length \_\_\_\_\_ I. D. \_\_\_\_\_ in.  
Mud Type Clay Viscosity 62 Weight Pipe Length \_\_\_\_\_ I. D. \_\_\_\_\_ in.  
Weight 8.8 Water Loss 6.8 cc. Drill Pipe Length 3745 I. D. 3.8 in.  
Chlorides 3,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 7/8 in.  
Jars: Make \_\_\_\_\_ Serial Number \_\_\_\_\_ Anchor Length 24 ft. Size 5 7/8 in.  
Did Well Flow? \_\_\_\_\_ 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 + H in.

Blow: Wack to 11' string below on (FFP) Bottom of bucket in 1 min. String blow on (FFP)  
Gas to surface in 22 min  
Recovered 3563 ft. of gas in pipe  
Recovered 132 ft. of gassy oil cut mud 50% gas 30% oil 20% mud  
Recovered 170 ft. of salt water  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Chlorides \_\_\_\_\_ P.P.M. Sample Jars used 5 Remarks: \_\_\_\_\_ MAY 10 1993

Time On Location 7:00 A.M. Time Pick Up Tool 10:00 A.M. Time Off Location \_\_\_\_\_ A.M.  
Time Set Packer(s) 11:00 P.M. Time Started Off Bottom 2:30 P.M. Maximum Temperature 119°R  
Initial Hydrostatic Pressure \_\_\_\_\_ (A) 1780 P.S.I.  
Initial Flow Period \_\_\_\_\_ Minutes 30 (B) 65 P.S.I. to (C) 85 P.S.I.  
Initial Closed In Period \_\_\_\_\_ Minutes 60 (D) 1175 P.S.I.  
Final Flow Period \_\_\_\_\_ Minutes 60 (E) 95 P.S.I. to (F) 155 P.S.I.  
Final Closed In Period \_\_\_\_\_ Minutes 60 (G) 1120 P.S.I.  
Final Hydrostatic Pressure \_\_\_\_\_ (H) 1720 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 or 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 \_\_\_\_\_  
Signature of Customer or his authorized representative

Western Representative \_\_\_\_\_

FIELD INVOICE

Open Hole Test \$ \_\_\_\_\_  
Misrun \$ \_\_\_\_\_  
Straddle Test \$ \_\_\_\_\_  
Jars \$ \_\_\_\_\_  
Selective Zone \$ \_\_\_\_\_  
Safety Joint \$ \_\_\_\_\_  
Standby \$ \_\_\_\_\_  
Evaluation \$ \_\_\_\_\_  
Extra Packer \$ \_\_\_\_\_  
Circ. Sub. \$ \_\_\_\_\_  
Mileage \$ \_\_\_\_\_  
Fluid Sampler \$ \_\_\_\_\_  
Extra Charts \$ \_\_\_\_\_  
Insurance \$ \_\_\_\_\_  
Telecopier \$ \_\_\_\_\_  
TOTAL \$ \_\_\_\_\_

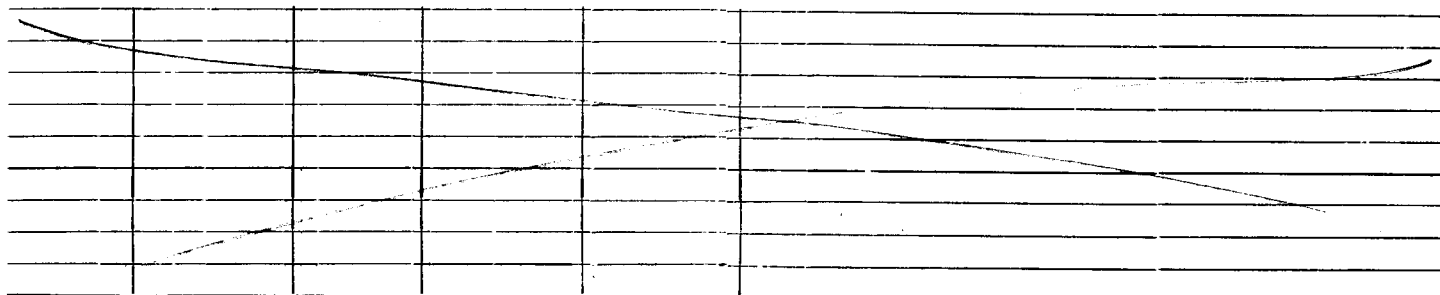
WICHITA, KANSAS 67201

## GAS FLOW REPORT

Date 5-9-93 Ticket 18690 Company Honey Oil Co  
Well Name and No. Frost #1 Dst No. AST #1 Interval Tested 3765-59  
County Reno State Ks Sec. 27 Twp. 24 Rg. 8W

| Time<br>Gauge<br>in Min. | P.S.I. on<br>Merla Orifice<br>Well Tester | Size of<br>Orifice | P.S.I. on<br>Pitot<br>Tester | P.S.I. on<br>Side Static<br>Tester | Description of Flow |
|--------------------------|-------------------------------------------|--------------------|------------------------------|------------------------------------|---------------------|
|--------------------------|-------------------------------------------|--------------------|------------------------------|------------------------------------|---------------------|

**PRE FLOW**



## SECOND FLOW

[illegible]

## GAS BOTTLE

Serial No. \_\_\_\_\_ Date Bottle Filled \_\_\_\_\_ Date to be Invoiced \_\_\_\_\_

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 1½% per month, equal to 18% 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 Shelburne

Authorized by \_\_\_\_\_

# WESTERN TESTING CO., INC.

## Pressure Data

Date 5-9-92

Test Ticket No. 18690

Recorder No. 10979

Capacity \_\_\_\_\_ Location \_\_\_\_\_

Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature \_\_\_\_\_

| Point                          | Pressure    |        | Time Given | Time Computed |
|--------------------------------|-------------|--------|------------|---------------|
| A Initial Hydrostatic Mud      | <u>1812</u> | P.S.I. |            | M             |
| B First Initial Flow Pressure  | <u>68</u>   | P.S.I. |            | M             |
| C First Final Flow Pressure    | <u>89</u>   | P.S.I. |            | M             |
| D Initial Closed-in Pressure   | <u>1191</u> | P.S.I. |            | M             |
| E Second Initial Flow Pressure | <u>110</u>  | P.S.I. |            | M             |
| F Second Final Flow Pressure   | <u>162</u>  | P.S.I. |            | M             |
| G Final Closed-in Pressure     | <u>1135</u> | P.S.I. |            | M             |
| H Final Hydrostatic Mud        | <u>1771</u> | P.S.I. |            | M             |

## PRESSURE BREAKDOWN

| First Flow Pressure         |           | Initial Shut-In             |                | Second Flow Pressure        |            | Final Shut-In               |             |
|-----------------------------|-----------|-----------------------------|----------------|-----------------------------|------------|-----------------------------|-------------|
| Breakdown: _____ Inc.       |           | Breakdown: _____ Inc.       |                | Breakdown: _____ Inc.       |            | Breakdown: _____ Inc.       |             |
| of <u>5</u> mins. and a     |           | of <u>3</u> mins. and a     |                | of <u>5</u> mins. and a     |            | of <u>3</u> mins. and a     |             |
| final inc. of <u>0</u> Min. |           | final inc. of <u>0</u> Min. |                | final inc. of <u>0</u> Min. |            | final inc. of <u>0</u> Min. |             |
| Point Mins.                 | Press.    | Point Minutes               | Press.         | Point Minutes               | Press.     | Point Minutes               | Press.      |
| P 1 0                       | <u>68</u> | 0                           | <u>89</u>      | 0                           | <u>110</u> | 0                           | <u>162</u>  |
| P 2 5                       | <u>68</u> | 3                           | <u>533</u>     | 5                           | <u>5</u>   | 3                           | <u>322</u>  |
| P 3 10                      | <u>68</u> | 6                           | <u>536</u>     | 10                          | <u>110</u> | 6                           | <u>587</u>  |
| P 4 15                      | <u>71</u> | 9                           | <u>715</u>     | 15                          | <u>114</u> | 9                           | <u>754</u>  |
| P 5 20                      | <u>74</u> | 12                          | <u>880</u>     | 20                          | <u>122</u> | 12                          | <u>832</u>  |
| P 6 25                      | <u>82</u> | 15                          | <u>964</u>     | 25                          | <u>128</u> | 15                          | <u>924</u>  |
| P 7 30                      | <u>89</u> | 18                          | <u>1023</u>    | 30                          | <u>132</u> | 18                          | <u>955</u>  |
| P 8 35                      |           | 21                          | <u>1059</u>    | 35                          | <u>138</u> | 21                          | <u>994</u>  |
| P 9 40                      |           | 24                          | <u>1091</u>    | 40                          | <u>142</u> | 24                          | <u>1011</u> |
| P10 45                      |           | 27                          | <u>1107</u>    | 45                          | <u>150</u> | 27                          | <u>1032</u> |
| P11 50                      |           | 30                          | <u>1124</u>    | 50                          | <u>156</u> | 30                          | <u>1045</u> |
| P12 55                      |           | 33                          | <u>1136</u>    | 55                          | <u>159</u> | 33                          | <u>1061</u> |
| P13 60                      |           | 36                          | <u>1147</u>    | 60                          | <u>162</u> | 36                          | <u>1072</u> |
| P14 65                      |           | 39                          | <u>1153</u>    | 65                          |            | 39                          | <u>1077</u> |
| P15 70                      |           | 42                          | <u>1160</u>    | 70                          |            | 42                          | <u>1087</u> |
| P16 75                      |           | 45                          | <u>1162</u>    | 75                          |            | 45                          | <u>1097</u> |
| P17 80                      |           | 48                          | <u>1166</u>    | 80                          |            | 48                          | <u>1102</u> |
| P18 85                      |           | 51                          | <u>1172</u>    | 85                          |            | 51                          | <u>1107</u> |
| P19 90                      |           | 54                          | <u>1178</u>    | 90                          |            | 54                          | <u>1112</u> |
| P20 95                      |           | 57                          | <u>1182</u>    | 95                          |            | 57                          | <u>1117</u> |
| 100                         |           | 60                          | <u>1186</u>    | 100                         |            | 60                          | <u>1119</u> |
|                             |           |                             | <u>68 1191</u> |                             |            |                             |             |

# WESTERN TESTING CO., INC.

## Pressure Data

Date: \_\_\_\_\_

Test Ticket No. 18650

Recorder No. \_\_\_\_\_ Capacity \_\_\_\_\_ Location \_\_\_\_\_ Ft.

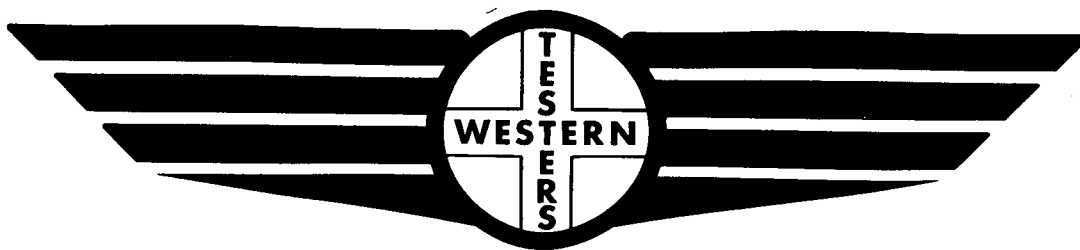
Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature \_\_\_\_\_ °F

| Point                                       | Pressure |                                                    | Time Given | Time Computed |
|---------------------------------------------|----------|----------------------------------------------------|------------|---------------|
| A Initial Hydrostatic Mud _____ P.S.I.      |          | Open Tool _____ M                                  |            |               |
| B First Initial Flow Pressure _____ P.S.I.  |          | First Flow Pressure _____ Mins. _____ Mins.        |            |               |
| C First Final Flow Pressure _____ P.S.I.    |          | Initial Closed-in Pressure _____ Mins. _____ Mins. |            |               |
| D Initial Closed-in Pressure _____ P.S.I.   |          | Second Flow Pressure _____ Mins. _____ Mins.       |            |               |
| E Second Initial Flow Pressure _____ P.S.I. |          | Final Closed-in Pressure _____ Mins. _____ Mins.   |            |               |
| F Second Final Flow Pressure _____ P.S.I.   |          |                                                    |            |               |
| G Final Closed-in Pressure _____ P.S.I.     |          |                                                    |            |               |
| H Final Hydrostatic Mud _____ P.S.I.        |          |                                                    |            |               |

### PRESSURE BREAKDOWN

| First Flow Pressure      |        | Initial Shut-In          |        | Second Flow Pressure     |        | Final Shut-In            |            |
|--------------------------|--------|--------------------------|--------|--------------------------|--------|--------------------------|------------|
| Breakdown: _____ Inc.    |        | Breakdown: _____ Inc.    |        | Breakdown: _____ Inc.    |        | Breakdown: _____ Inc.    |            |
| of _____ mins. and a     |        | of _____ mins. and a     |        | of _____ mins. and a     |        | of _____ mins. and a     |            |
| final inc. of _____ Min. |        | final inc. of _____ Min. |        | final inc. of _____ Min. |        | final inc. of _____ Min. |            |
| Point<br>Mins.           | Press. | Point<br>Minutes         | Press. | Point<br>Minutes         | Press. | Point<br>Minutes         | Press.     |
| P 1 105                  |        | 63                       |        | 105                      |        | 63                       | <u>112</u> |
| P 2 110                  |        | 66                       |        | 110                      |        | 66                       | <u>118</u> |
| P 3 115                  |        | 69                       |        | 115                      |        | 69                       | <u>121</u> |
| P 4 120                  |        | 72                       |        | 120                      |        | 72                       | <u>125</u> |
| P 5 125                  |        | 75                       |        | 125                      |        | 75                       | <u>135</u> |
| P 6 130                  |        | 78                       |        | 130                      |        | 78                       |            |
| P 7 135                  |        | 81                       |        | 135                      |        | 81                       |            |
| P 8 140                  |        | 84                       |        | 140                      |        | 84                       |            |
| P 9 145                  |        | 87                       |        | 145                      |        | 87                       |            |
| P10 150                  |        | 90                       |        | 150                      |        | 90                       |            |
| P11 155                  |        | 93                       |        | 155                      |        | 93                       |            |
| P12 160                  |        | 96                       |        | 160                      |        | 96                       |            |
| P13 165                  |        | 99                       |        | 165                      |        | 99                       |            |
| P14 170                  |        | 102                      |        | 170                      |        | 102                      |            |
| P15 175                  |        | 105                      |        | 175                      |        | 105                      |            |
| P16 180                  |        | 108                      |        | 180                      |        | 108                      |            |
| P17 185                  |        | 111                      |        | 185                      |        | 111                      |            |
| P18 190                  |        | 114                      |        | 190                      |        | 114                      |            |
| P19 195                  |        | 117                      |        | 195                      |        | 117                      |            |
| P20 200                  |        | 120                      |        | 200                      |        | 120                      |            |

# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800-688-7021

## DST REPORT

### GENERAL INFORMATION

|            |                           |            |                  |
|------------|---------------------------|------------|------------------|
| DATE       | : 5/10/93                 | TICKET     | : 18691          |
| CUSTOMER   | : HONEY OIL COMPANY, INC. | LEASE      | : FOSTER         |
| WELL       | : #1                      | TEST: 2    | GEOLOGIST: BAKER |
| ELEVATION: |                           | FORMATION: | MISSISSIPPI      |
| SECTION    | : 27                      | TOWNSHIP   | : 24S            |
| RANGE      | : 8W                      | STATE      | : KS             |
| GAUGE SN#: | 10979                     | CLOCK      | : 12             |
|            | COUNTY: RENO              |            |                  |
|            | RANGE : 4100              |            |                  |

### WELL INFORMATION

|                            |            |                    |            |            |           |
|----------------------------|------------|--------------------|------------|------------|-----------|
| PERFORATION INTERVAL FROM: | 3787.00 ft | TO:                | 3799.00 ft | TVD:       | 3799.0 ft |
| DEPTH OF SELECTIVE ZONE:   |            |                    |            | TEST TYPE: | OIL       |
| DEPTH OF RECORDERS:        | 3793.0 ft  |                    | 3796.0 ft  |            |           |
| TEMPERATURE:               | 120.0      |                    |            |            |           |
| DRILL COLLAR LENGTH:       | 0.0 ft     | I.D.:              |            | 0.000 in   |           |
| WEIGHT PIPE LENGTH :       | 0.0 ft     | I.D.:              |            | 0.000 in   |           |
| DRILL PIPE LENGTH :        | 3767.0 ft  | I.D.:              |            | 3.800 in   |           |
| TEST TOOL LENGTH :         | 20.0 ft    | TOOL SIZE :        |            | 5.500 in   |           |
| ANCHOR LENGTH :            | 12.0 ft    | ANCHOR SIZE:       |            | 5.500 in   |           |
| SURFACE CHOKE SIZE :       | 0.750 in   | BOTTOM CHOKE SIZE: |            | 0.750 in   |           |
| MAIN HOLE SIZE :           | 7.875 in   | TOOL JOINT SIZE :  |            | 4.5XH      |           |
| PACKER DEPTH:              | 3782.0 ft  | SIZE:              |            | 6.630 in   |           |
| PACKER DEPTH:              | 3787.0 ft  | SIZE:              |            | 6.630 in   |           |
| PACKER DEPTH:              | 0.0 ft     | SIZE:              |            | 0.000 in   |           |
| PACKER DEPTH:              | 0.0 ft     | SIZE:              |            | 0.000 in   |           |

### MUD INFORMATION

|                 |            |                |          |
|-----------------|------------|----------------|----------|
| DRILLING CON. : | DUKE RIG 5 | VISCOSITY :    | 61.00 cp |
| MUD TYPE :      | CHEMICAL   | WATER LOSS:    | 6.800 cc |
| WEIGHT :        | 8.800 ppg  |                |          |
| CHLORIDES :     | 3000 ppm   | SERIAL NUMBER: |          |
| JARS-MAKE :     |            | REVERSED OUT?: | NO       |
| DID WELL FLOW?: | NO         |                |          |

### COMMENTS

#### Comment

INITIAL FLOW PERIOD WEAK TO STRONG BLOW- 6 INCHES  
INTO BUCKET. FINAL FLOW PERIOD WEAK BLOW - 4  
INCHES INTO BUCKET DIMINISHING TO 2 INCH BLOW.

# DST REPORT (CONTINUED)

## FLUID RECOVERY

| Feet of Fluid | % Oil | % Gas | % Water | % Mud | Comments     |
|---------------|-------|-------|---------|-------|--------------|
| 50.0          | 0.0   | 0.0   | 0.0     | 100.0 | DRILLING MUD |
| 0.0           | 0.0   | 0.0   | 0.0     | 0.0   | W/ OIL SPOTS |

## RATE INFORMATION

|               |        |     |                     |               |
|---------------|--------|-----|---------------------|---------------|
| OIL VOLUME:   | 0.0000 | STB |                     |               |
| GAS VOLUME:   | 0.0000 | SCF |                     |               |
| MUD VOLUME:   | 0.7013 | STB |                     |               |
| WATER VOLUME: | 0.0000 | STB |                     |               |
| TOTAL FLUID : | 0.7013 | STB |                     |               |
|               |        |     | TOTAL FLOW TIME:    | 135.0000 min. |
|               |        |     | AVERAGE OIL RATE:   | 0.0000 STB/D  |
|               |        |     | AVERAGE WATER RATE: | 0.0000 STB/D  |

## FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1790.00

| Description     | Duration | p1    | p End  |
|-----------------|----------|-------|--------|
| INITIAL FLOW    | 45.00    | 30.00 | 30.00  |
| INITIAL SHUT-IN | 60.00    |       | 970.00 |
| FINAL FLOW      | 90.00    | 40.00 | 40.00  |
| FINAL SHUT-IN   | 60.00    |       | 905.00 |

FINAL HYDROSTATIC PRESSURE: 1780.00

## OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1788.00

| Description     | Duration | p1    | p End  |
|-----------------|----------|-------|--------|
| INITIAL FLOW    | 45.00    | 37.00 | 37.00  |
| INITIAL SHUT-IN | 60.00    |       | 964.00 |
| FINAL FLOW      | 90.00    | 41.00 | 48.00  |
| FINAL SHUT-IN   | 66.00    |       | 912.00 |

FINAL HYDROSTATIC PRESSURE: 1788.00



# PRESSURE TRANSIENT REPORT

## GENERAL INFORMATION

|                                    |                        |
|------------------------------------|------------------------|
| DATE : 5/10/93                     | TICKET : 18691         |
| CUSTOMER : HONEY OIL COMPANY, INC. | LEASE : FOSTER         |
| WELL : #1                          | GEOLOGIST: BAKER       |
| ELEVATION:                         | FORMATION: MISSISSIPPI |
| SECTION : 27                       | TOWNSHIP : 24S         |
| RANGE : 8W                         | STATE : KS             |
| GAUGE SN#: 10979                   | CLOCK : 12             |
| COUNTY: RENO                       |                        |
| RANGE : 4100                       |                        |

## INITIAL FLOW

| Time<br>(min) | Pressure | Delta P |
|---------------|----------|---------|
| 0.00          | 37.00    | 37.00   |
| 5.00          | 37.00    | 0.00    |
| 10.00         | 37.00    | 0.00    |
| 15.00         | 37.00    | 0.00    |
| 20.00         | 37.00    | 0.00    |
| 25.00         | 37.00    | 0.00    |
| 30.00         | 37.00    | 0.00    |
| 35.00         | 37.00    | 0.00    |
| 40.00         | 37.00    | 0.00    |
| 45.00         | 37.00    | 0.00    |

## INITIAL SHUT IN

| Time<br>(min) | Pressure | Delta P | Horner T |
|---------------|----------|---------|----------|
| 3.00          | 38.00    | 38.00   | 0.00     |
| 6.00          | 39.00    | 1.00    | 0.00     |
| 9.00          | 42.00    | 3.00    | 0.00     |
| 12.00         | 46.00    | 4.00    | 0.00     |
| 15.00         | 54.00    | 8.00    | 0.00     |
| 18.00         | 64.00    | 10.00   | 0.00     |
| 21.00         | 79.00    | 15.00   | 0.00     |
| 24.00         | 92.00    | 13.00   | 0.00     |
| 27.00         | 126.00   | 34.00   | 0.00     |
| 30.00         | 177.00   | 51.00   | 0.00     |
| 33.00         | 252.00   | 75.00   | 0.00     |
| 36.00         | 349.00   | 97.00   | 0.00     |
| 39.00         | 479.00   | 130.00  | 0.00     |
| 42.00         | 586.00   | 107.00  | 0.00     |
| 45.00         | 691.00   | 105.00  | 0.00     |
| 48.00         | 766.00   | 75.00   | 0.00     |

# PRESSURE TRANSIENT REPORT (CONTINUED)

## INITIAL SHUT IN (CONTINUED)

| Time<br>(min) | Pressure | Delta P | Horner T |
|---------------|----------|---------|----------|
| 51.00         | 822.00   | 56.00   | 0.00     |
| 54.00         | 886.00   | 64.00   | 0.00     |
| 57.00         | 932.00   | 46.00   | 0.00     |
| 60.00         | 964.00   | 32.00   | 0.00     |

## FINAL FLOW

| Time<br>(min) | Pressure | Delta P |
|---------------|----------|---------|
| 0.00          | 41.00    | 41.00   |
| 5.00          | 41.00    | 0.00    |
| 10.00         | 41.00    | 0.00    |
| 15.00         | 41.00    | 0.00    |
| 20.00         | 41.00    | 0.00    |
| 25.00         | 41.00    | 0.00    |
| 30.00         | 41.00    | 0.00    |
| 35.00         | 42.00    | 1.00    |
| 40.00         | 42.00    | 0.00    |
| 45.00         | 42.00    | 0.00    |
| 50.00         | 43.00    | 1.00    |
| 55.00         | 43.00    | 0.00    |
| 60.00         | 43.00    | 0.00    |
| 65.00         | 44.00    | 1.00    |
| 70.00         | 45.00    | 1.00    |
| 75.00         | 46.00    | 1.00    |
| 80.00         | 47.00    | 1.00    |
| 85.00         | 48.00    | 1.00    |
| 90.00         | 48.00    | 0.00    |

## FINAL SHUT IN

| Time<br>(min) | Pressure | Delta P | Horner T |
|---------------|----------|---------|----------|
| 3.00          | 52.00    | 52.00   | 0.00     |
| 6.00          | 54.00    | 2.00    | 0.00     |
| 9.00          | 60.00    | 6.00    | 0.00     |
| 12.00         | 67.00    | 7.00    | 0.00     |
| 15.00         | 75.00    | 8.00    | 0.00     |
| 18.00         | 87.00    | 12.00   | 0.00     |
| 21.00         | 106.00   | 19.00   | 0.00     |

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

| <u>Time<br/>(min)</u> | <u>Pressure</u> | <u>Delta P</u> | <u>Horner T</u> |
|-----------------------|-----------------|----------------|-----------------|
| 24.00                 | 127.00          | 21.00          | 0.00            |
| 27.00                 | 161.00          | 34.00          | 0.00            |
| 30.00                 | 195.00          | 34.00          | 0.00            |
| 33.00                 | 256.00          | 61.00          | 0.00            |
| 36.00                 | 322.00          | 66.00          | 0.00            |
| 39.00                 | 396.00          | 74.00          | 0.00            |
| 42.00                 | 486.00          | 90.00          | 0.00            |
| 45.00                 | 574.00          | 88.00          | 0.00            |
| 48.00                 | 656.00          | 82.00          | 0.00            |
| 51.00                 | 719.00          | 63.00          | 0.00            |
| 54.00                 | 781.00          | 62.00          | 0.00            |
| 57.00                 | 822.00          | 41.00          | 0.00            |
| 60.00                 | 865.00          | 43.00          | 0.00            |
| 63.00                 | 898.00          | 33.00          | 0.00            |
| 66.00                 | 912.00          | 14.00          | 0.00            |



WESTERN TESTING CO., INC.  
FORMATION TESTING

TICKET No 18691

P. O. BOX 1599 PHONE (316) 262-5861  
WICHITA, KANSAS 67201

Elevation \_\_\_\_\_ Formation Miss Eff. Pay \_\_\_\_\_ Ft.

District Augusta Date 5-10-93 Customer Order No. \_\_\_\_\_  
COMPANY NAME Honey Oil Co. Inc.  
ADDRESS 401 East Douglas - Suite 505 Wichita, KS 67202  
LEASE AND WELL NO. Foster #1 COUNTY Reno STATE KS Sec. 27 Twp. 24 Rge. 8 W  
Mail Invoice To Same No. Copies Requested 1  
Co. Name #1 Foster Address \_\_\_\_\_  
Mail Charts To Same No. Copies Requested 5  
Address \_\_\_\_\_

Formation Test No. AST #2 Interval Tested From 3787 ft. to 3799 ft. Total Depth 3799 ft.  
Packer Depth 3782 ft. Size 6 5/8 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Packer Depth 3787 ft. Size 6 5/8 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Depth of Selective Zone Set \_\_\_\_\_  
Top Recorder Depth (Inside) 3793 ft. Recorder Number 10979 Cap. 4100  
Bottom Recorder Depth (Outside) 3796 ft. Recorder Number 3174 Cap. 3000  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_  
Drilling Contractor Duke Rig 5 Drill Collar Length \_\_\_\_\_ I. D. \_\_\_\_\_ in.  
Mud Type Chen Viscosity 61 Weight Pipe Length \_\_\_\_\_ I. D. \_\_\_\_\_ in.  
Weight 8.8 Water Loss 6.8 cc. Drill Pipe Length 3767 I. D. 3.8 in.  
Chlorides 3,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 3/4 in.  
Jars: Make \_\_\_\_\_ Serial Number \_\_\_\_\_ Anchor Length 13 ft. Size 5 1/2 in.  
Did Well Flow? \_\_\_\_\_ 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 X 1 1/2 in.

Blow: Work to string below on (F.P.) 6' into bucket Work blow 4' into bucket demonstrating to  
2' in blow on (F.P.)  
Recovered 50 ft. of dilling mud (with oil spots trace)  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Chlorides \_\_\_\_\_ P.P.M. Sample Jars used \_\_\_\_\_ Remarks: \_\_\_\_\_  
MAY 10 1993

Time On Location Stand by A.M. \_\_\_\_\_ P.M. \_\_\_\_\_ Time Pick Up Tool 2:00 A.M. \_\_\_\_\_ P.M. \_\_\_\_\_ Time Off Location \_\_\_\_\_ A.M. \_\_\_\_\_ P.M. \_\_\_\_\_  
Time Set Packer 3:00 A.M. \_\_\_\_\_ P.M. \_\_\_\_\_ Time Started Off Bottom 7:15 A.M. \_\_\_\_\_ P.M. \_\_\_\_\_ Maximum Temperature 120°  
Initial Hydrostatic Pressure \_\_\_\_\_ (A) 1790 P.S.I.  
Initial Flow Period \_\_\_\_\_ Minutes 45 (B) 30 P.S.I. to (C) 30 P.S.I.  
Initial Closed In Period \_\_\_\_\_ Minutes 60 (D) 970 P.S.I.  
Final Flow Period \_\_\_\_\_ Minutes 90 (E) 40 P.S.I. to (F) 40 P.S.I.  
Final Closed In Period \_\_\_\_\_ Minutes 60 (G) 905 P.S.I.  
Final Hydrostatic Pressure \_\_\_\_\_ (H) 1780 P.S.I. 10979

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 \_\_\_\_\_  
Signature of Customer or his authorized representative

Western Representative Jeff R. Smith

FIELD INVOICE

Open Hole Test \$ \_\_\_\_\_  
Misrun \$ \_\_\_\_\_  
Straddle Test \$ \_\_\_\_\_  
Jars \$ \_\_\_\_\_  
Selective Zone \$ \_\_\_\_\_  
Safety Joint \$ \_\_\_\_\_  
Standby \$ \_\_\_\_\_  
Evaluation \$ \_\_\_\_\_  
Extra Packer \$ \_\_\_\_\_  
Circ. Sub. \$ \_\_\_\_\_  
Mileage \$ \_\_\_\_\_  
Fluid Sampler \$ \_\_\_\_\_  
Extra Charts \$ \_\_\_\_\_  
Insurance \$ \_\_\_\_\_  
Telecopier \$ \_\_\_\_\_  
TOTAL \$ \_\_\_\_\_

# WESTERN TESTING CO., INC.

## Pressure Data

Date: 5-10-92

Test Ticket No. 18691

Recorder No. 10929

Capacity \_\_\_\_\_ Location \_\_\_\_\_

Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature \_\_\_\_\_

| Point                          | Pressure    |        | Time Given | Time Computed     |
|--------------------------------|-------------|--------|------------|-------------------|
| A Initial Hydrostatic Mud      | <u>1288</u> | P.S.I. |            | M                 |
| B First Initial Flow Pressure  | <u>37</u>   | P.S.I. |            | Mins <u>45</u> Mi |
| C First Final Flow Pressure    | <u>37</u>   | P.S.I. |            | Mins <u>40</u> Mi |
| D Initial Closed-in Pressure   | <u>964</u>  | P.S.I. |            | Mins <u>30</u> Mi |
| E Second Initial Flow Pressure | <u>41</u>   | P.S.I. |            | Mins <u>46</u> Mi |
| F Second Final Flow Pressure   | <u>48</u>   | P.S.I. |            |                   |
| G Final Closed-in Pressure     | <u>912</u>  | P.S.I. |            |                   |
| H Final Hydrostatic Mud        | <u>1288</u> | P.S.I. |            |                   |

## PRESSURE BREAKDOWN

| First Flow Pressure         |           | Initial Shut-In             |            | Second Flow Pressure        |           | Final Shut-In               |            |
|-----------------------------|-----------|-----------------------------|------------|-----------------------------|-----------|-----------------------------|------------|
| Breakdown: _____ Inc.       |           | Breakdown: _____ Inc.       |            | Breakdown: _____ Inc.       |           | Breakdown: _____ Inc.       |            |
| of <u>5</u> mins. and a     |           | of <u>3</u> mins. and a     |            | of <u>5</u> mins. and a     |           | of <u>3</u> mins. and a     |            |
| final inc. of <u>0</u> Min. |           | final inc. of <u>0</u> Min. |            | final inc. of <u>0</u> Min. |           | final inc. of <u>0</u> Min. |            |
| Point Mins.                 | Press.    | Point Minutes               | Press.     | Point Minutes               | Press.    | Point Minutes               | Press.     |
| P 1 0                       | <u>37</u> | 0                           | <u>37</u>  | 0                           | <u>41</u> | 0                           | <u>48</u>  |
| P 2 5                       |           | 3                           | <u>38</u>  | 5                           | <u>42</u> | 3                           | <u>52</u>  |
| P 3 10                      |           | 6                           | <u>39</u>  | 10                          | <u>43</u> | 6                           | <u>54</u>  |
| P 4 15                      |           | 9                           | <u>42</u>  | 15                          | <u>44</u> | 9                           | <u>60</u>  |
| P 5 20                      |           | 12                          | <u>46</u>  | 20                          | <u>45</u> | 12                          | <u>67</u>  |
| P 6 25                      |           | 15                          | <u>54</u>  | 25                          | <u>45</u> | 15                          | <u>75</u>  |
| P 7 30                      | <u>37</u> | 18                          | <u>64</u>  | 30                          | <u>41</u> | 18                          | <u>87</u>  |
| P 8 35                      |           | 21                          | <u>79</u>  | 35                          | <u>44</u> | 21                          | <u>106</u> |
| P 9 40                      |           | 24                          | <u>92</u>  | 40                          | <u>45</u> | 24                          | <u>127</u> |
| P10 45                      | <u>37</u> | 27                          | <u>126</u> | 45                          | <u>44</u> | 27                          | <u>146</u> |
| P11 50                      |           | 30                          | <u>177</u> | 50                          | <u>42</u> | 30                          | <u>195</u> |
| P12 55                      |           | 33                          | <u>252</u> | 55                          | <u>45</u> | 33                          | <u>256</u> |
| P13 60                      |           | 36                          | <u>349</u> | 60                          | <u>43</u> | 36                          | <u>322</u> |
| P14 65                      |           | 39                          | <u>429</u> | 65                          | <u>44</u> | 39                          | <u>396</u> |
| P15 70                      |           | 42                          | <u>586</u> | 70                          | <u>45</u> | 42                          | <u>486</u> |
| P16 75                      |           | 45                          | <u>691</u> | 75                          | <u>46</u> | 45                          | <u>524</u> |
| P17 80                      |           | 48                          | <u>766</u> | 80                          | <u>47</u> | 48                          | <u>656</u> |
| P18 85                      |           | 51                          | <u>822</u> | 85                          | <u>48</u> | 51                          | <u>719</u> |
| P19 90                      |           | 54                          | <u>886</u> | 90                          | <u>48</u> | 54                          | <u>781</u> |
| P20 95                      |           | 57                          | <u>922</u> | 95                          |           | 57                          | <u>822</u> |
| 100                         |           | 60                          | <u>964</u> | 100                         |           | 60                          | <u>865</u> |
|                             |           |                             |            |                             |           | <u>62</u>                   | <u>898</u> |
|                             |           |                             |            |                             |           | <u>106</u>                  | <u>911</u> |

## DST REPORT

### GENERAL INFORMATION

DATE : 5/10/93  
CUSTOMER : HONEY OIL COMPANY, INC.  
WELL : #1 TEST: 2  
ELEVATION:  
SECTION : 27  
RANGE : 8W COUNTY: RENO  
GAUGE SN#: 10979 RANGE : 4100

TICKET : 18691  
LEASE : FOSTER  
GEOLOGIST: BAKER  
FORMATION: MISSISSIPPI  
TOWNSHIP : 24S  
STATE : KS  
CLOCK : 12

### WELL INFORMATION

PERFORATION INTERVAL FROM: 3787.00 ft TO: 3799.00 ft TVD: 3799.0 ft  
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL  
DEPTH OF RECORDERS: 3793.0 ft 3796.0 ft  
TEMPERATURE: 120.0

|                      |           |                    |          |
|----------------------|-----------|--------------------|----------|
| DRILL COLLAR LENGTH: | 0.0 ft    | I.D.:              | 0.000 in |
| WEIGHT PIPE LENGTH : | 0.0 ft    | I.D.:              | 0.000 in |
| DRILL PIPE LENGTH :  | 3767.0 ft | I.D.:              | 3.800 in |
| TEST TOOL LENGTH :   | 20.0 ft   | TOOL SIZE :        | 5.500 in |
| ANCHOR LENGTH :      | 12.0 ft   | ANCHOR SIZE:       | 5.500 in |
| SURFACE CHOKE SIZE : | 0.750 in  | BOTTOM CHOKE SIZE: | 0.750 in |
| MAIN HOLE SIZE :     | 7.875 in  | TOOL JOINT SIZE :  | 4.5XH    |
| PACKER DEPTH:        | 3782.0 ft | SIZE:              | 6.630 in |
| PACKER DEPTH:        | 3787.0 ft | SIZE:              | 6.630 in |
| PACKER DEPTH:        | 0.0 ft    | SIZE:              | 0.000 in |
| PACKER DEPTH:        | 0.0 ft    | SIZE:              | 0.000 in |

### MUD INFORMATION

DRILLING CON. : DUKE RIG 5  
MUD TYPE : CHEMICAL  
WEIGHT : 8.800 ppg  
CHLORIDES : 3000 ppm  
JARS-MAKE :  
DID WELL FLOW?: NO

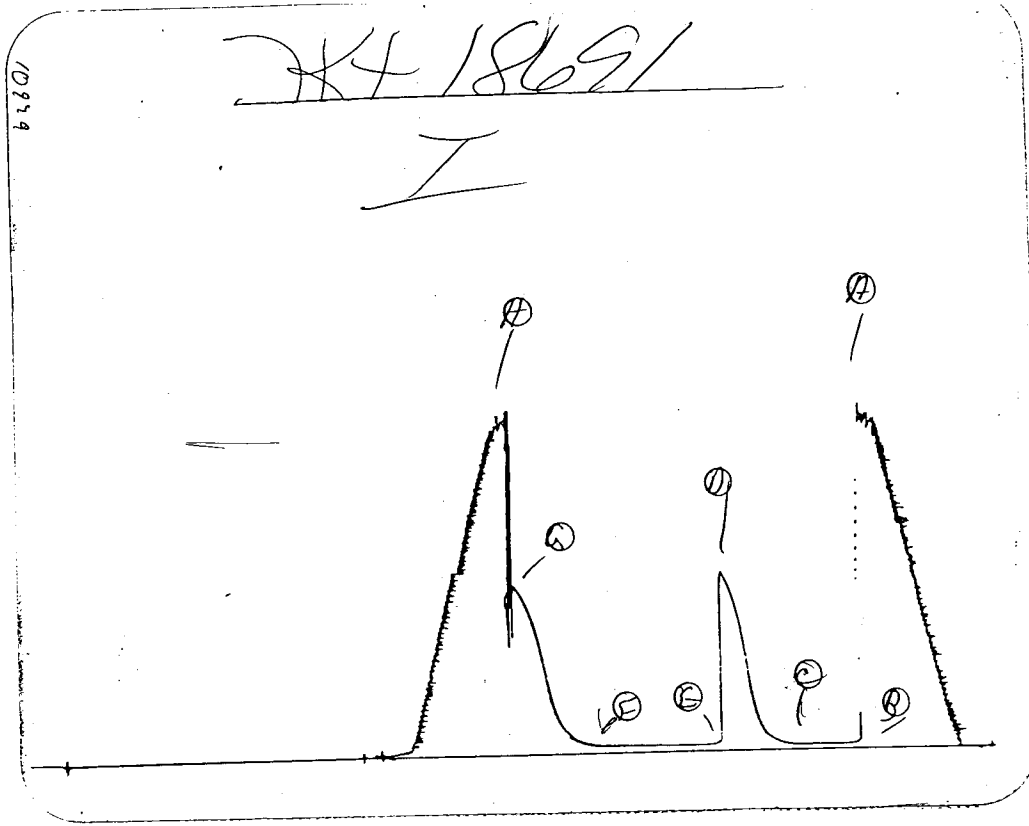
VISCOSITY : 61.00 cp  
WATER LOSS: 6.800 cc

SERIAL NUMBER:  
REVERSED OUT?: NO

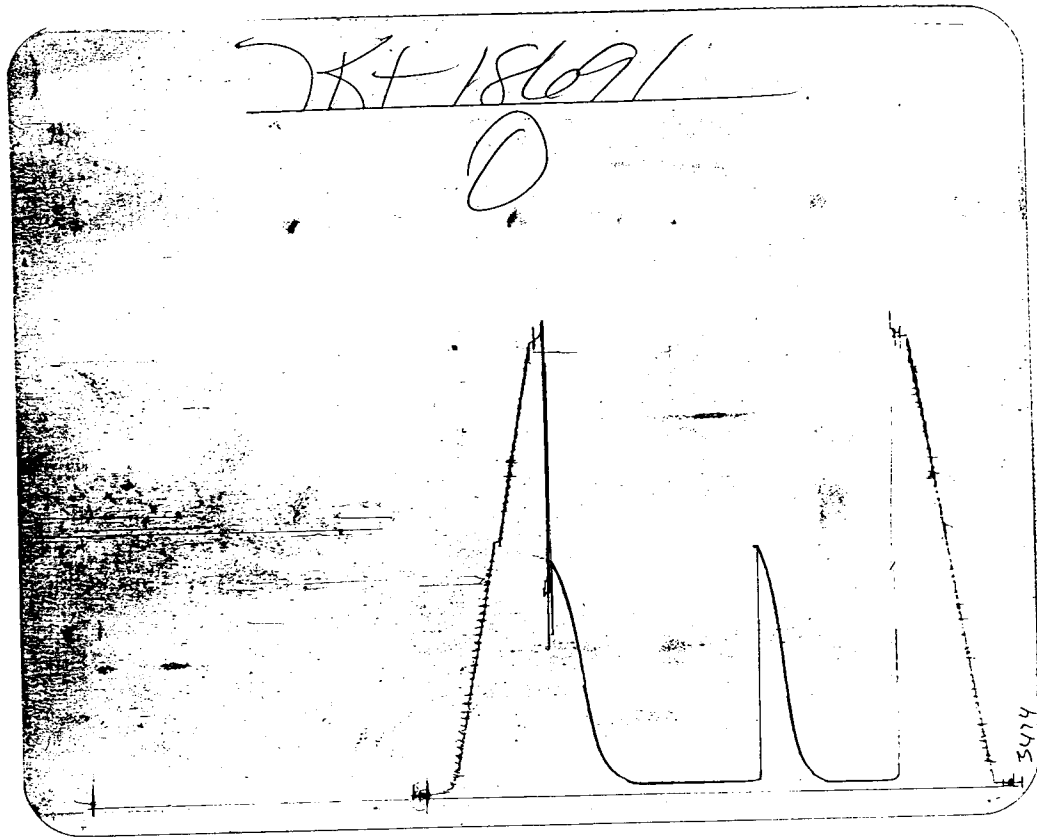
### COMMENTS

#### Comment

INITIAL FLOW PERIOD WEAK TO STRONG BLOW- 6 INCHES  
INTO BUCKET. FINAL FLOW PERIOD WEAK BLOW - 4  
INCHES INTO BUCKET DIMINISHING TO 2 INCH BLOW.



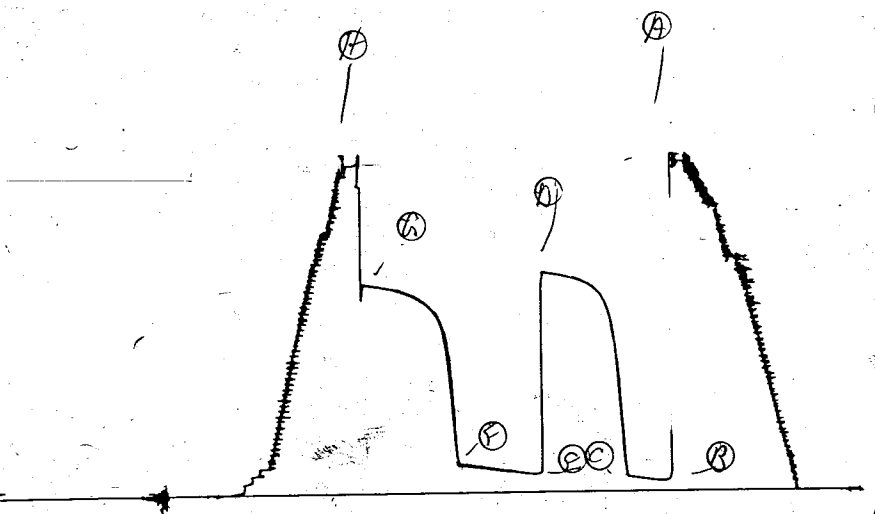
Inside Recorder



Outside Recorder

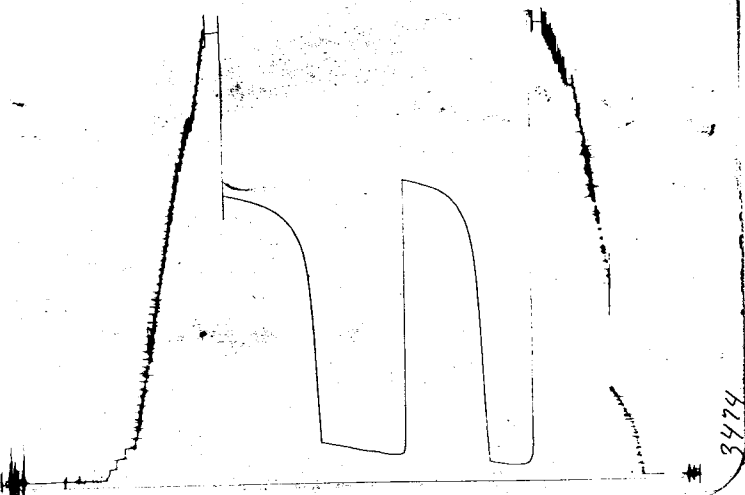
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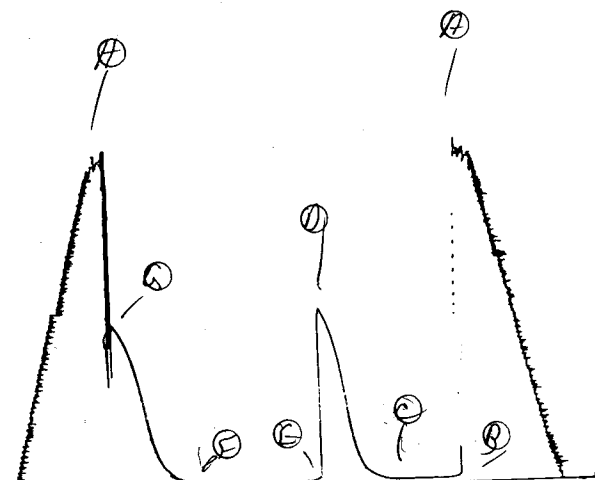


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