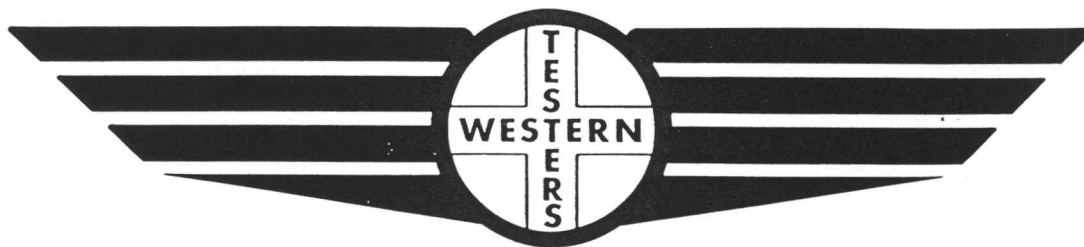


# FORMATION TEST REPORT



Home Office:

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P.O. Box 1599

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COMPANY PAN WESTERN PETROLEUM, INC. LEASE & WELL NO. #1 STANLEY-PICKETT SEC. 13 TWP. 29S RGE. 3E TEST NO. 1 DATE 4/2/86

## SUBSURFACE PRESSURE SURVEY

DATE : 4-2-86 TICKET : 11377  
 CUSTOMER : PAN WESTERN PETROLEUM INC. LEASE : STANLEY-PICKETT  
 WELL : 1 TEST: 1 GEOLOGIST : ELSTER  
 ELEVATION : 1215 FORMATION : SIMPSON  
 SECTION : 13 TOWNSHIP : 29S  
 RANGE : 3E COUNTY : BUTLER STATE : KANSAS  
 GAUGE SN# : 13521 RANGE : 4375 CLOCK : 12

INTERVAL FROM : 2908 TO : 2912 TOTAL DEPTH : 2912  
 DEPTH OF SELECTIVE ZONE :  
 PACKER DEPTH : 2903 SIZE : 6.75  
 PACKER DEPTH : 2908 SIZE : 6.75  
 PACKER DEPTH : SIZE :  
 PACKER DEPTH : SIZE :

DRILLING CON. : RED TIGER DRLG  
 MUD TYPE : CHEMICAL VISCOSITY : 40  
 WEIGHT : 9.6 WATER LOSS (CC) : 9.6  
 CHLORIDES (PPM) : 4800  
 JARS-MAKE : SERIAL NUMBER :  
 DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00  
 WEIGHT PIPE LENGTH : 1010 FT I.D. inch : 3.00  
 DRILL PIPE LENGTH : 1871 FT I.D. inch : 3.80  
 TEST TOOL LENGTH : 27 FT TOOL SIZE : 5.50  
 ANCHOR LENGTH : 4 FT ANCHOR SIZE : 5.50  
 SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75  
 MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5 XH

BLOW COMMENT #1 : FAIR BLOW; OFF BOTTOM OF BUCKET; THROUGHOUT TEST.  
 BLOW COMMENT #2 :  
 BLOW COMMENT #3 :  
 BLOW COMMENT #4 :

RECOVERED : 2 FT OF: FREE OIL. 0.02 Barrels  
 RECOVERED : 482 FT OF: MUDDY WATER. 4.21 Barrels  
 RECOVERED : 0 FT OF: CHLORIDES 20000 PPM. 0.00 Barrels  
 RECOVERED : 0 FT OF: 0.00 Barrels  
 RECOVERED : 0 FT OF: 0.00 Barrels  
 RECOVERED : 0 FT OF: 0.00 Barrels  
 RECOVERED : 0 FT OF: 0.00 Barrels  
 RECOVERED : 0 FT OF: 0.00 Barrels  
 RECOVERED : 0 FT OF: 0.00 Barrels  
 RECOVERED : 0 FT OF: 0.00 Barrels  
 Total Barrels = 4.2 Total Production = 50.8 Bpd

REMARK 1 :  
 REMARK 2 :  
 REMARK 3 :  
 REMARK 4 :

SET PACKER(S) : 2:55 PM TIME STARTED OFF BOTTOM : 6:55 PM  
 WELL TEMPERATURE : 114  
 INITIAL HYDROSTATIC PRESSURE (A) 1491  
 INITIAL FLOW PERIOD MIN: 60 (B) 25 PSI TO (C) : 105  
 INITIAL CLOSED IN PERIOD MIN: 60 (D) 985  
 FINAL FLOW PERIOD MIN: 60 (E) 154 PSI TO (F) : 188  
 FINAL CLOSED IN PERIOD MIN: 60 (G) 951  
 FINAL HYDROSTATIC PRESSURE (H) 1462

Pressure Transient Report

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DATA FILE.....  
COMPANY.....PAN WESTERN PETROLEUM INC.  
DATE OF TEST.....4-2-86  
FIELD NAME.....STANLEY-PICKETT  
WELL NAME.....1  
LOCATION.....BUTLER-KANSAS  
JOB NUMBER.....11377  
GAUGE NUMBER.....13521  
GAUGE DEPTH.....2912

COMMENTS

|               |            |              |
|---------------|------------|--------------|
| START UP TIME | (mo/da/yr) | (hr:min:sec) |
|               | 4./2/86.   | 2.: 55.: 0.  |

COMPANY : PAN WESTERN PETROLEUM INC. FIELD : STANLEY-PICKETT  
WELL : 1 JOB # : 11377  
GAUGE # : 13521 DEPTH : 2912  
MON/DAY : 4/ 2

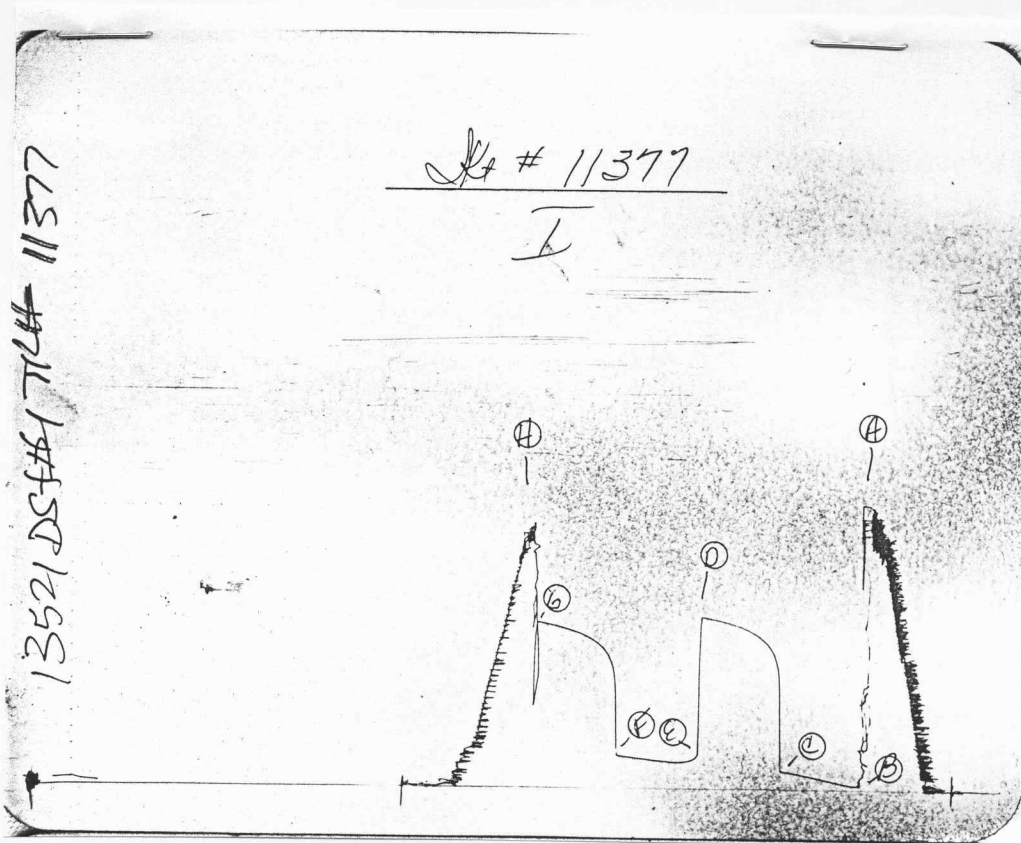
PAGE 1

| REC# | REAL TIME<br>HR:MIN:SEC | ELAPSE TIME<br>MINS HOURS | PRESSURE<br>PSIG | TEMP<br>DEG F | DELTA P<br>(Po-Pi) | DP/DT<br>Psi/hr |
|------|-------------------------|---------------------------|------------------|---------------|--------------------|-----------------|
| 1    | 2:55: 0                 | 0 0.000                   | 25.00            | 114.0         | 0.00               | 0.00            |
| 2    | 3: 0: 0                 | 5 0.083                   | 25.00            | 114.0         | 0.00               | 0.00            |
| 3    | 3: 5: 0                 | 10 0.167                  | 28.00            | 114.0         | 3.00               | 36.04           |
| 4    | 3:10: 0                 | 15 0.250                  | 36.00            | 114.0         | 11.00              | 95.81           |
| 5    | 3:15: 0                 | 20 0.333                  | 45.00            | 114.0         | 20.00              | 108.11          |
| 6    | 3:20: 0                 | 25 0.417                  | 53.00            | 114.0         | 28.00              | 96.09           |
| 7    | 3:25: 0                 | 30 0.500                  | 63.00            | 114.0         | 38.00              | 119.77          |
| 8    | 3:30: 0                 | 35 0.583                  | 71.00            | 114.0         | 46.00              | 96.09           |
| 9    | 3:35: 0                 | 40 0.667                  | 78.00            | 114.0         | 53.00              | 84.08           |
| 10   | 3:40: 0                 | 45 0.750                  | 87.00            | 114.0         | 62.00              | 107.79          |
| 11   | 3:45: 0                 | 50 0.833                  | 95.00            | 114.0         | 70.00              | 96.09           |
| 12   | 3:50: 0                 | 55 0.917                  | 102.00           | 114.0         | 77.00              | 84.08           |
| 13   | 3:55: 0                 | 60 1.000                  | 105.00           | 114.0         | 80.00              | 35.93           |
| 14   | 3:58: 0                 | 63 1.050                  | 701.00           | 114.0         | 676.00             | 11966.75        |
| 15   | 4: 1: 0                 | 66 1.100                  | 776.00           | 114.0         | 751.00             | 1498.54         |
| 16   | 4: 4: 0                 | 69 1.150                  | 814.00           | 114.0         | 789.00             | 759.26          |
| 17   | 4: 7: 0                 | 72 1.200                  | 841.00           | 114.0         | 816.00             | 539.47          |
| 18   | 4:10: 0                 | 75 1.250                  | 863.00           | 114.0         | 838.00             | 439.57          |
| 19   | 4:13: 0                 | 78 1.300                  | 881.00           | 114.0         | 856.00             | 361.41          |
| 20   | 4:16: 0                 | 81 1.350                  | 896.00           | 114.0         | 871.00             | 299.71          |
| 21   | 4:19: 0                 | 84 1.400                  | 909.00           | 114.0         | 884.00             | 259.75          |
| 22   | 4:22: 0                 | 87 1.450                  | 920.00           | 114.0         | 895.00             | 219.79          |
| 23   | 4:25: 0                 | 90 1.500                  | 930.00           | 114.0         | 905.00             | 199.80          |
| 24   | 4:28: 0                 | 93 1.550                  | 939.00           | 114.0         | 914.00             | 180.71          |
| 25   | 4:31: 0                 | 96 1.600                  | 945.00           | 114.0         | 920.00             | 119.88          |
| 26   | 4:34: 0                 | 99 1.650                  | 953.00           | 114.0         | 928.00             | 159.84          |
| 27   | 4:37: 0                 | 102 1.700                 | 960.00           | 114.0         | 935.00             | 139.86          |
| 28   | 4:40: 0                 | 105 1.750                 | 965.00           | 114.0         | 940.00             | 99.90           |
| 29   | 4:43: 0                 | 108 1.800                 | 970.00           | 114.0         | 945.00             | 100.39          |
| 30   | 4:46: 0                 | 111 1.850                 | 974.00           | 114.0         | 949.00             | 79.92           |
| 31   | 4:49: 0                 | 114 1.900                 | 978.00           | 114.0         | 953.00             | 79.92           |
| 32   | 4:52: 0                 | 117 1.950                 | 982.00           | 114.0         | 957.00             | 79.92           |
| 33   | 4:55: 0                 | 120 2.000                 | 985.00           | 114.0         | 960.00             | 59.94           |
| 34   | 4:56: 0                 | 121 2.017                 | 154.00           | 114.0         | 129.00             | -50055.53       |
| 35   | 5: 0: 0                 | 125 2.083                 | 154.00           | 114.0         | 129.00             | 0.00            |
| 36   | 5: 5: 0                 | 130 2.167                 | 154.00           | 114.0         | 129.00             | 0.00            |
| 37   | 5:10: 0                 | 135 2.250                 | 154.00           | 114.0         | 129.00             | 0.00            |
| 38   | 5:15: 0                 | 140 2.333                 | 154.00           | 114.0         | 129.00             | 0.00            |
| 39   | 5:20: 0                 | 145 2.417                 | 157.00           | 114.0         | 132.00             | 36.04           |
| 40   | 5:25: 0                 | 150 2.500                 | 161.00           | 114.0         | 136.00             | 47.91           |
| 41   | 5:30: 0                 | 155 2.583                 | 165.00           | 114.0         | 140.00             | 48.05           |
| 42   | 5:35: 0                 | 160 2.667                 | 170.00           | 114.0         | 145.00             | 60.06           |
| 43   | 5:40: 0                 | 165 2.750                 | 175.00           | 114.0         | 150.00             | 59.88           |
| 44   | 5:45: 0                 | 170 2.833                 | 180.00           | 114.0         | 155.00             | 60.06           |
| 45   | 5:50: 0                 | 175 2.917                 | 185.00           | 114.0         | 160.00             | 60.06           |
| 46   | 5:55: 0                 | 180 3.000                 | 188.00           | 114.0         | 163.00             | 35.93           |
| 47   | 5:58: 0                 | 183 3.050                 | 675.00           | 114.0         | 650.00             | 9778.20         |
| 48   | 6: 1: 0                 | 186 3.100                 | 743.00           | 114.0         | 718.00             | 1358.67         |
| 49   | 6: 4: 0                 | 189 3.150                 | 781.00           | 114.0         | 756.00             | 759.26          |

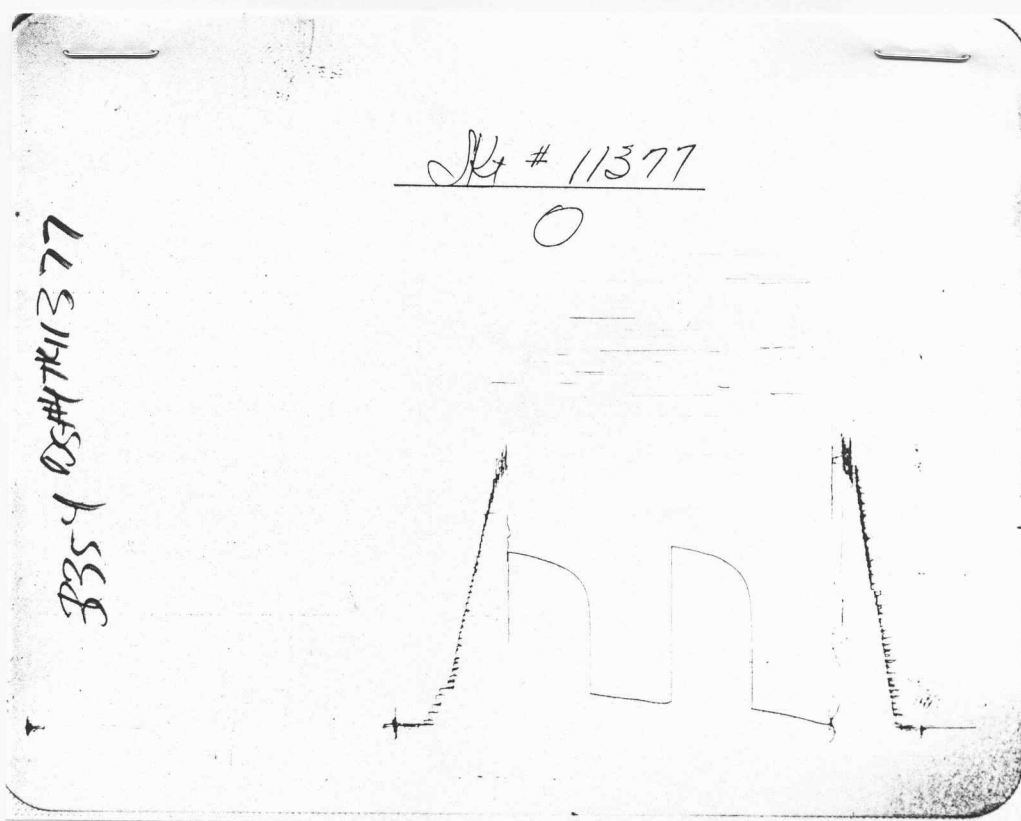
COMPANY : PAN WESTERN PETROLEUM INC. FIELD : STANLEY-PICKETT  
WELL : 1 JOB # : 11377  
GAUGE # : 13521 DEPTH : 2912  
MON/DAY : 4/ 2

PAGE 2

| REC# | REAL TIME<br>HR:MIN:SEC | ELAPSE TIME<br>MINS HOURS | PRESSURE<br>PSIG | TEMP<br>DEG F | DELTA P<br>(Po-Pi) | DP/DT<br>Psi/hr |
|------|-------------------------|---------------------------|------------------|---------------|--------------------|-----------------|
| 50   | 6: 7: 0                 | 192 3.200                 | 810.00           | 114.0         | 785.00             | 579.43          |
| 51   | 6:10: 0                 | 195 3.250                 | 830.00           | 114.0         | 805.00             | 399.61          |
| 52   | 6:13: 0                 | 198 3.300                 | 846.00           | 114.0         | 821.00             | 321.25          |
| 53   | 6:16: 0                 | 201 3.350                 | 860.00           | 114.0         | 835.00             | 279.73          |
| 54   | 6:19: 0                 | 204 3.400                 | 873.00           | 114.0         | 848.00             | 259.75          |
| 55   | 6:22: 0                 | 207 3.450                 | 883.00           | 114.0         | 858.00             | 199.80          |
| 56   | 6:25: 0                 | 210 3.500                 | 893.00           | 114.0         | 868.00             | 199.80          |
| 57   | 6:28: 0                 | 213 3.550                 | 903.00           | 114.0         | 878.00             | 200.78          |
| 58   | 6:31: 0                 | 216 3.600                 | 910.00           | 114.0         | 885.00             | 139.86          |
| 59   | 6:34: 0                 | 219 3.650                 | 917.00           | 114.0         | 892.00             | 139.86          |
| 60   | 6:37: 0                 | 222 3.700                 | 923.00           | 114.0         | 898.00             | 119.88          |
| 61   | 6:40: 0                 | 225 3.750                 | 929.00           | 114.0         | 904.00             | 119.88          |
| 62   | 6:43: 0                 | 228 3.800                 | 935.00           | 114.0         | 910.00             | 120.47          |
| 63   | 6:46: 0                 | 231 3.850                 | 940.00           | 114.0         | 915.00             | 99.90           |
| 64   | 6:49: 0                 | 234 3.900                 | 944.00           | 114.0         | 919.00             | 79.92           |
| 65   | 6:52: 0                 | 237 3.950                 | 948.00           | 114.0         | 923.00             | 79.92           |
| 66   | 6:55: 0                 | 240 4.000                 | 951.00           | 114.0         | 926.00             | 59.94           |



Inside Recorder



Outside Recorder