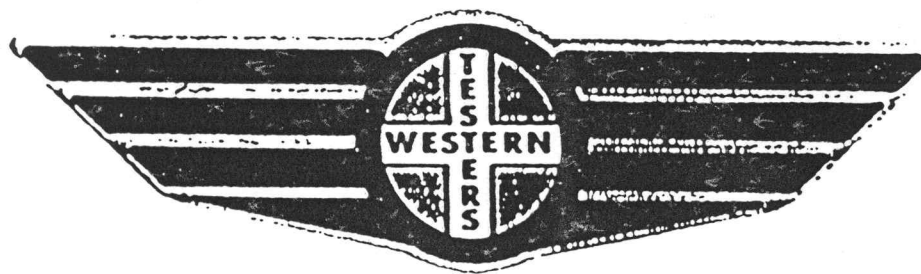


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY Cross Continent/Spurlock LEASE & WELL NO. Farney 1-3 SEC. 3 TWP 34S RGE. 12W TEST NO. 1 DATE 12/29/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 12/29/88 TICKET : 14411
CUSTOMER : CROSS CONTINENT/SPURLOCKSPINES LEASE : FARNEY
WELL : 1-3 TEST: 1 GEOLOGIST : WILLIAMS
ELEVATION : FORMATION :
SECTION : 3 TOWNSHIP : 34S
RANGE : 12W COUNTY : BARBER STATE : KANSAS
GAUGE SN# : 13552 RANGE : 4050 CLOCK : 12

INTERVAL FROM : 5036 TO : 5046 TOTAL DEPTH : 5046
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 5031 SIZE : 6.63
PACKER DEPTH : 5036 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : LOBO RIG 1
MUD TYPE : STARCH VISCOSITY : 45
WEIGHT : 9.8 WATER LOSS (CC) : 12.2
CHLORIDES (PPM) : 62000
JARS-MAKE : WTC SERIAL NUMBER : 407
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 5007 FT I.D. inch : 3.80
TEST TOOL LENGTH : 29 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 10 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 FH

BLOW COMMENT #1 : INITIAL FLOW PERIOD-WEAK TO STRONG BLOW
BLOW COMMENT #2 : FINAL FLOW PERIOD-WEAK TO STRONG BLOW
BLOW COMMENT #3 :
BLOW COMMENT #4 :

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : CROSS CONTINENT/SPURLOCKSPINES
RIG : BARBER-KANSAS
FIELD : FARNEY
WELL : 1-3
DATE : 12/29/88
GAUGE NO : 13552

OPERATIONAL COMMENTS

COMPANY : CROSS CONTINENT/SPURLOCKSPINES

WELL : 1-3
 GAUGE # : 13552
 DATE : 29/12/88

FIELD : FARNEY
 JOB # : 14411
 DEPTH : 5046
 TEST :

| DATA No. | REAL TIME HR:MN:SS | ELAPSE TIME DELTA HOURS | PRESSURE PSIG | TEMP DEG F | DELTA P Pi-P(i-1) |
|------------------------|--------------------|-------------------------|---------------|------------|-------------------|
| INITIAL FLOW PERIOD | | | | | |
| 2 | 11: 0: 0 | 0.000 | 102.000 | 132.00 | 0.000 |
| 3 | 11: 4: 59 | 0.083 | 102.000 | 132.00 | 0.000 |
| 4 | 11:10: 0 | 0.167 | 102.000 | 132.00 | 0.000 |
| 5 | 11:15: 0 | 0.250 | 104.000 | 132.00 | 2.000 |
| 6 | 11:19:59 | 0.333 | 114.000 | 132.00 | 10.000 |
| 7 | 11:25: 0 | 0.417 | 126.000 | 132.00 | 12.000 |
| 8 | 11:30: 0 | 0.500 | 136.000 | 132.00 | 10.000 |
| INITIAL SHUT-IN PERIOD | | | | | |
| 9 | 11:33: 0 | 0.550 | 359.000 | 132.00 | 223.000 |
| 10 | 11:36: 0 | 0.600 | 1626.000 | 132.00 | 1267.000 |
| 11 | 11:39: 0 | 0.650 | 1918.000 | 132.00 | 292.000 |
| 12 | 11:42: 0 | 0.700 | 1961.000 | 132.00 | 43.000 |
| 13 | 11:45: 0 | 0.750 | 1979.000 | 132.00 | 18.000 |
| 14 | 11:48: 0 | 0.800 | 1991.000 | 132.00 | 12.000 |
| 15 | 11:51: 0 | 0.850 | 2000.000 | 132.00 | 9.000 |
| 16 | 11:54: 0 | 0.900 | 2007.000 | 132.00 | 7.000 |
| 17 | 11:57: 0 | 0.950 | 2011.000 | 132.00 | 4.000 |
| 18 | 12: 0: 0 | 1.000 | 2016.000 | 132.00 | 5.000 |
| 19 | 12: 2: 59 | 1.050 | 2022.000 | 132.00 | 6.000 |
| 20 | 12: 6: 0 | 1.100 | 2026.000 | 132.00 | 4.000 |
| 21 | 12: 9: 0 | 1.150 | 2028.000 | 132.00 | 2.000 |
| 22 | 12:12: 0 | 1.200 | 2029.000 | 132.00 | 1.000 |
| 23 | 12:15: 0 | 1.250 | 2030.000 | 132.00 | 1.000 |
| 24 | 12:18: 0 | 1.300 | 2031.000 | 132.00 | 1.000 |
| 25 | 12:21: 0 | 1.350 | 2032.000 | 132.00 | 1.000 |
| 26 | 12:24: 0 | 1.400 | 2033.000 | 132.00 | 1.000 |
| 27 | 12:27: 0 | 1.450 | 2034.000 | 132.00 | 1.000 |
| 28 | 12:30: 0 | 1.500 | 2035.000 | 132.00 | 1.000 |
| 29 | 12:33: 0 | 1.550 | 2036.000 | 132.00 | 1.000 |
| FINAL FLOW PERIOD | | | | | |
| 30 | 12:34: 0 | 1.567 | 193.000 | 132.00 | -1843.000 |
| 31 | 12:37:59 | 1.633 | 193.000 | 132.00 | 0.000 |
| 32 | 12:43: 0 | 1.717 | 193.000 | 132.00 | 0.000 |
| 33 | 12:48: 0 | 1.800 | 193.000 | 132.00 | 0.000 |
| 34 | 12:52:59 | 1.883 | 199.000 | 132.00 | 6.000 |
| 35 | 12:58: 0 | 1.967 | 206.000 | 132.00 | 7.000 |
| 36 | 13: 3: 0 | 2.050 | 217.000 | 132.00 | 11.000 |
| 37 | 13: 7: 59 | 2.133 | 229.000 | 132.00 | 12.000 |
| 38 | 13:13: 0 | 2.217 | 236.000 | 132.00 | 7.000 |
| 39 | 13:18: 0 | 2.300 | 246.000 | 132.00 | 10.000 |
| 40 | 13:22:59 | 2.383 | 255.000 | 132.00 | 9.000 |
| 41 | 13:28: 0 | 2.467 | 263.000 | 132.00 | 8.000 |
| 42 | 13:33: 0 | 2.550 | 269.000 | 132.00 | 6.000 |
| FINAL SHUT-IN PERIOD | | | | | |
| 43 | 13:36: 0 | 2.600 | 712.000 | 132.00 | 443.000 |
| 44 | 13:38:59 | 2.650 | 1809.000 | 132.00 | 1097.000 |
| 45 | 13:42: 0 | 2.700 | 1920.000 | 132.00 | 111.000 |
| 46 | 13:45: 0 | 2.750 | 1949.000 | 132.00 | 29.000 |
| 47 | 13:48: 0 | 2.800 | 1964.000 | 132.00 | 15.000 |
| 48 | 13:51: 0 | 2.850 | 1975.000 | 132.00 | 11.000 |

COMPANY : CROSS CONTINENT/SPURLOCKSPINES

FIELD : FARNEY

WELL : 1-3

JOB # : 14411

GAUGE # : 13552

DEPTH : 5046

DATE : 29/12/88

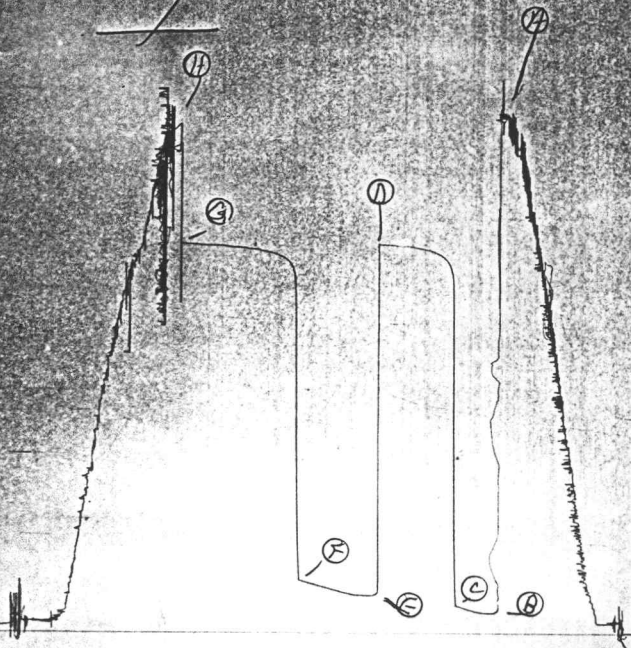
TEST :

| DATA No. | REAL TIME HR:MN:SS | ELAPSE TIME DELTA HOURS | PRESSURE PSIG | TEMP DEG F | DELTA P Pi-P(i-1) |
|----------|--------------------|-------------------------|---------------|------------|-------------------|
| 49 | 13:53:59 | 2.900 | 1984.000 | 132.00 | 9.000 |
| 50 | 13:57: 0 | 2.950 | 1989.000 | 132.00 | 5.000 |
| 51 | 14: 0: 0 | 3.000 | 1994.000 | 132.00 | 5.000 |
| 52 | 14: 3: 0 | 3.050 | 1999.000 | 132.00 | 5.000 |
| 53 | 14: 6: 0 | 3.100 | 2001.000 | 132.00 | 2.000 |
| 54 | 14: 9: 0 | 3.150 | 2007.000 | 132.00 | 6.000 |
| 55 | 14:11:59 | 3.200 | 2010.000 | 132.00 | 3.000 |
| 56 | 14:15: 0 | 3.250 | 2012.000 | 132.00 | 2.000 |
| 57 | 14:18: 0 | 3.300 | 2014.000 | 132.00 | 2.000 |
| 58 | 14:21: 0 | 3.350 | 2016.000 | 132.00 | 2.000 |
| 59 | 14:24: 0 | 3.400 | 2018.000 | 132.00 | 2.000 |
| 60 | 14:26:59 | 3.450 | 2020.000 | 132.00 | 2.000 |
| 61 | 14:30: 0 | 3.500 | 2021.000 | 132.00 | 1.000 |
| 62 | 14:33: 0 | 3.550 | 2022.000 | 132.00 | 1.000 |
| 63 | 14:36: 0 | 3.600 | 2023.000 | 132.00 | 1.000 |
| 64 | 14:39: 0 | 3.650 | 2024.000 | 132.00 | 1.000 |
| 65 | 14:41:59 | 3.700 | 2025.000 | 132.00 | 1.000 |
| 66 | 14:45: 0 | 3.750 | 2025.000 | 132.00 | 0.000 |
| 67 | 14:48: 0 | 3.800 | 2025.000 | 132.00 | 0.000 |
| 68 | 14:51: 0 | 3.850 | 2026.000 | 132.00 | 1.000 |
| 69 | 14:54: 0 | 3.900 | 2027.000 | 132.00 | 1.000 |
| 70 | 14:56:59 | 3.950 | 2028.000 | 132.00 | 1.000 |
| 71 | 15: 0: 0 | 4.000 | 2029.000 | 132.00 | 1.000 |
| 72 | 15: 3: 0 | 4.050 | 2030.000 | 132.00 | 1.000 |
| 73 | 15: 6: 0 | 4.100 | 2031.000 | 132.00 | 1.000 |

WESTERN TESTING CO. INC.

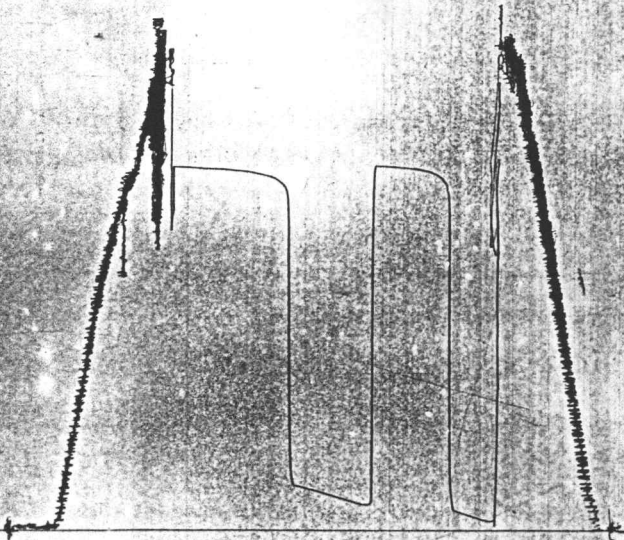
AX 14411

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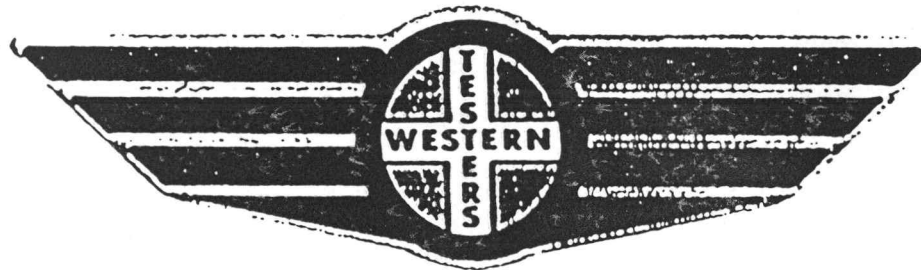
TK4 14411

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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY Cross Continent/Spurlock LEASE & WELL NO. Farmey 1-3 SEC. 3 TWP. 34S RGE. 12W TEST NO. 2 DATE 12/30/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 12/30/88 TICKET : 14412
CUSTOMER : CROSS CONTINENT/SPURLOCKSPINES LEASE : FARNEY
WELL : 1-3 TEST: 2 GEOLOGIST : WILLIAMS
ELEVATION : FORMATION : MISS
SECTION : 3 TOWNSHIP : 34S
RANGE : 12W COUNTY : BARBER STATE : KANSAS
GAUGE SN# : 13552 RANGE : 4050 CLOCK : 12

INTERVAL FROM : 4767 TO : 4816 TOTAL DEPTH : 5220
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 4762 SIZE : 6.63
PACKER DEPTH : 4767 SIZE : 6.63
PACKER DEPTH : 4816 SIZE : 6.875
PACKER DEPTH : SIZE :

DRILLING CON. : LOBO RIG 1
MUD TYPE : STARCH VISCOSITY : 51
WEIGHT : 9.8 WATER LOSS (CC) : 11.0
CHLORIDES (PPM) : 52000
JARS-MAKE : WTC SERIAL NUMBER : 407
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 4738 FT I.D. inch : 3.80
TEST TOOL LENGTH : 29 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 49 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 FH

BLOW COMMENT #1 : INITIAL FLOW PERIODS-STRONG BLOW
BLOW COMMENT #2 : FINAL FLOW PERIODS-STRONG BLOW
BLOW COMMENT #3 :
BLOW COMMENT #4 :

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : CROSS CONTINENT/SPURLOCKSPINES
RIG : BARBER-KANSAS
FIELD : FARNEY
WELL : 1-3
DATE : 12/30/88
GAUGE NO : 13552

OPERATIONAL COMMENTS

240 GAS ABOVE FLUID 404 FT OF TAIL PIPE
PLUGGING ON INTIAL & FINAL FLOW PERIODS

COMPANY : CROSS CONTINENT/SPURLOCKSPINES

FIELD : FARNEY

WELL : 1-3

JOB # : 14412

GAUGE # : 13552

DEPTH : 5220

DATE : 30/12/88

TEST : 240 GAS ABOVE FLUID 404

FT OF TAIL PIPE

| DATA No. | REAL TIME HR:MN:SS | ELAPSE TIME DELTA HOURS | PRESSURE PSIG | TEMP DEG F | DELTA P Pi-P(i-1) |
|------------------------|--------------------|-------------------------|---------------|------------|-------------------|
| INITIAL FLOW PERIOD | | | | | |
| 2 | 6:15: 0 | 0.000 | 201.000 | 127.00 | 0.000 |
| 3 | 6:19:59 | 0.083 | 259.000 | 127.00 | 58.000 |
| 4 | 6:25: 0 | 0.167 | 259.000 | 127.00 | 0.000 |
| 5 | 6:30: 0 | 0.250 | 300.000 | 127.00 | 41.000 |
| 6 | 6:34:59 | 0.333 | 314.000 | 127.00 | 14.000 |
| 7 | 6:40: 0 | 0.417 | 307.000 | 127.00 | -7.000 |
| 8 | 6:45: 0 | 0.500 | 297.000 | 127.00 | -10.000 |
| INITIAL SHUT-IN PERIOD | | | | | |
| 9 | 6:48: 0 | 0.550 | 313.000 | 127.00 | 16.000 |
| 10 | 6:51: 0 | 0.600 | 369.000 | 127.00 | 56.000 |
| 11 | 6:54: 0 | 0.650 | 432.000 | 127.00 | 63.000 |
| 12 | 6:57: 0 | 0.700 | 502.000 | 127.00 | 70.000 |
| 13 | 7: 0: 0 | 0.750 | 582.000 | 127.00 | 80.000 |
| 14 | 7: 3: 0 | 0.800 | 665.000 | 127.00 | 83.000 |
| 15 | 7: 6: 0 | 0.850 | 744.000 | 127.00 | 79.000 |
| 16 | 7: 9: 0 | 0.900 | 831.000 | 127.00 | 87.000 |
| 17 | 7:12: 0 | 0.950 | 917.000 | 127.00 | 86.000 |
| 18 | 7:15: 0 | 1.000 | 1001.000 | 127.00 | 84.000 |
| 19 | 7:18: 0 | 1.050 | 1082.000 | 127.00 | 81.000 |
| 20 | 7:21: 0 | 1.100 | 1162.000 | 127.00 | 80.000 |
| 21 | 7:24: 0 | 1.150 | 1233.000 | 127.00 | 71.000 |
| 22 | 7:27: 0 | 1.200 | 1302.000 | 127.00 | 69.000 |
| 23 | 7:30: 0 | 1.250 | 1362.000 | 127.00 | 60.000 |
| 24 | 7:33: 0 | 1.300 | 1413.000 | 127.00 | 51.000 |
| 25 | 7:36: 0 | 1.350 | 1455.000 | 127.00 | 42.000 |
| 26 | 7:39: 0 | 1.400 | 1499.000 | 127.00 | 44.000 |
| 27 | 7:42: 0 | 1.450 | 1533.000 | 127.00 | 34.000 |
| 28 | 7:45: 0 | 1.500 | 1575.000 | 127.00 | 42.000 |
| FINAL FLOW PERIOD | | | | | |
| 29 | 7:46: 0 | 1.517 | 356.000 | 127.00 | -1219.000 |
| 30 | 7:49:59 | 1.583 | 356.000 | 127.00 | 0.000 |
| 31 | 7:55: 0 | 1.667 | 356.000 | 127.00 | 0.000 |
| 32 | 8: 0: 0 | 1.750 | 356.000 | 127.00 | 0.000 |
| 33 | 8: 4:59 | 1.833 | 356.000 | 127.00 | 0.000 |
| 34 | 8:10: 0 | 1.917 | 430.000 | 127.00 | 74.000 |
| FINAL SHUT-IN PERIOD | | | | | |
| 35 | 8:15: 0 | 2.000 | 450.000 | 127.00 | 20.000 |
| 36 | 8:18: 0 | 2.050 | 615.000 | 127.00 | 165.000 |
| 37 | 8:21: 0 | 2.100 | 1406.000 | 127.00 | 791.000 |
| 38 | 8:24: 0 | 2.150 | 1450.000 | 127.00 | 44.000 |
| 39 | 8:27: 0 | 2.200 | 1507.000 | 127.00 | 57.000 |
| 40 | 8:30: 0 | 2.250 | 1550.000 | 127.00 | 43.000 |
| 41 | 8:33: 0 | 2.300 | 1586.000 | 127.00 | 36.000 |
| 42 | 8:36: 0 | 2.350 | 1614.000 | 127.00 | 28.000 |
| 43 | 8:39: 0 | 2.400 | 1639.000 | 127.00 | 25.000 |
| 44 | 8:42: 0 | 2.450 | 1659.000 | 127.00 | 20.000 |
| 45 | 8:45: 0 | 2.500 | 1677.000 | 127.00 | 18.000 |
| 46 | 8:48: 0 | 2.550 | 1693.000 | 127.00 | 16.000 |
| 47 | 8:51: 0 | 2.600 | 1704.000 | 127.00 | 11.000 |
| 48 | 8:54: 0 | 2.650 | 1714.000 | 127.00 | 10.000 |

COMPANY : CROSS CONTINENT/SPURLOCKSPINES

FIELD : FARNEY

WELL : 1-3

JOB # : 14412

GAUGE # : 13552

DEPTH : 5220

DATE : 30/12/88

TEST : 240 GAS ABOVE FLUID 404

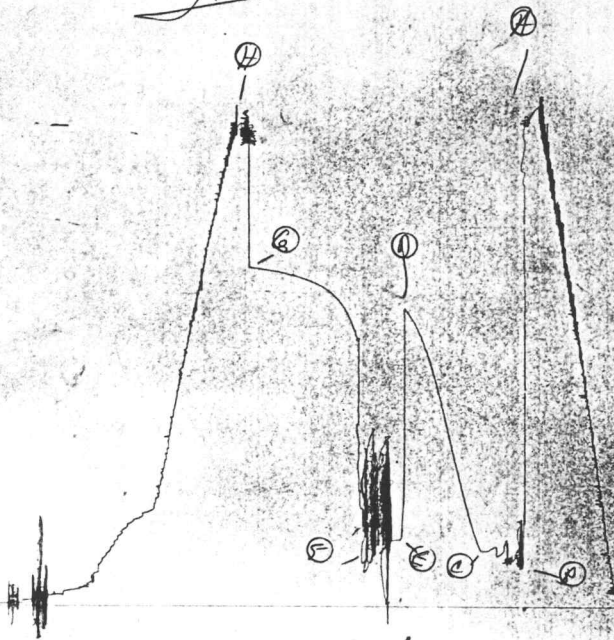
FT OF TAIL PIPE

| DATA No. | REAL TIME HR:MN:SS | ELAPSE TIME DELTA HOURS | PRESSURE PSIG | TEMP DEG F | DELTA P Pi-P(i-1) |
|----------|--------------------|-------------------------|---------------|------------|-------------------|
| 49 | 8:57:0 | 2.700 | 1724.000 | 127.00 | 10.000 |
| 50 | 9:0:0 | 2.750 | 1732.000 | 127.00 | 8.000 |
| 51 | 9:3:0 | 2.800 | 1740.000 | 127.00 | 8.000 |
| 52 | 9:6:0 | 2.850 | 1747.000 | 127.00 | 7.000 |
| 53 | 9:9:0 | 2.900 | 1754.000 | 127.00 | 7.000 |
| 54 | 9:12:0 | 2.950 | 1759.000 | 127.00 | 5.000 |
| 55 | 9:15:0 | 3.000 | 1764.000 | 127.00 | 5.000 |
| 56 | 9:18:0 | 3.050 | 1769.000 | 127.00 | 5.000 |
| 57 | 9:21:0 | 3.100 | 1777.000 | 127.00 | 8.000 |
| 58 | 9:24:0 | 3.150 | 1779.000 | 127.00 | 2.000 |
| 59 | 9:27:0 | 3.200 | 1781.000 | 127.00 | 2.000 |
| 60 | 9:30:0 | 3.250 | 1785.000 | 127.00 | 4.000 |
| 61 | 9:33:0 | 3.300 | 1787.000 | 127.00 | 2.000 |
| 62 | 9:36:0 | 3.350 | 1790.000 | 127.00 | 3.000 |
| 63 | 9:39:0 | 3.400 | 1793.000 | 127.00 | 3.000 |
| 64 | 9:42:0 | 3.450 | 1797.000 | 127.00 | 4.000 |

WESTERN TESTING CO. INC.

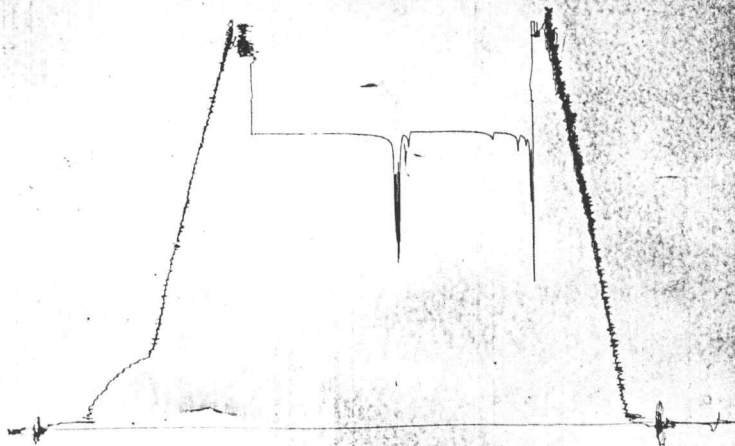
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