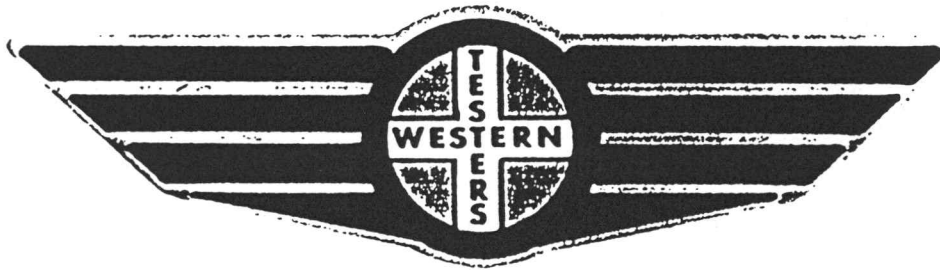


# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 9-22-87  
CUSTOMER : AMERICAN ENERGIES CORP.  
WELL : #1 TEST: 1  
ELEVATION : 1662 KB  
SECTION : 3  
RANGE : 13W COUNTY : BARBER  
GAUGE SN# : 13552 RANGE : 4050  
TICKET : 11817  
LEASE : ALLEN  
GEOLOGIST : W. HART  
FORMATION : ELGIN SD  
TOWNSHIP : 34S  
STATE : KANSAS  
CLOCK : 12

INTERVAL FROM : 3675 TO : 3705 TOTAL DEPTH : 3705  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 3670 SIZE : 6.63  
PACKER DEPTH : 3675 SIZE : 6.63  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : ALLEN RIG #5  
MUD TYPE : CHEMICAL VISCOSITY : 45  
WEIGHT : 8.7 WATER LOSS (CC) : 10.4  
CHLORIDES (PPM) : 5000  
JARS-MAKE : WTC SERIAL NUMBER : 408  
DID WELL FLOW ? : YES 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 : 3646 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 29 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 30 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 : STRONG BLOW THROUGHOUT BOTH FLOW PERIODS.  
BLOW COMMENT #2 : GAS TO SURFACE IN 32 MINUTES ON THE FINAL FLOW.  
BLOW COMMENT #3 : SEE ATTACHED FLOW CHART.  
BLOW COMMENT #4 :

RECOVERED : 15 FT OF: GAS CUT MUD

Total Barrels Fluid = 0.21  
Total Fluid Prod Rate = 4.04 BFPD  
Indicated Wtr Rate = 0.40 BWPD

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

|                                  |                                    |
|----------------------------------|------------------------------------|
| SET PACKER(S) : 7:50 PM          | TIME STARTED OFF BOTTOM : 11:20 PM |
| WELL TEMPERATURE : 114           |                                    |
| INITIAL HYDROSTATIC PRESSURE     | (A) 1763                           |
| INITIAL FLOW PERIOD MIN: 30      | (B) 51 PSI TO (C) : 51             |
| INITIAL CLOSED IN PERIOD MIN: 57 | (D) 1380                           |
| FINAL FLOW PERIOD MIN: 45        | (E) 45 PSI TO (F) : 45             |
| FINAL CLOSED IN PERIOD MIN: 72   | (G) 1423                           |
| FINAL HYDROSTATIC PRESSURE       | (H) 1726                           |

GAS FLOW REPORT

Date : 9-22-87 Ticket # : 11817  
Customer : AMERICAN ENERGIES CORP. Lease : ALLEN  
Well : #1 Test : 1 Geologist : W. HART  
Elevation (KB) : 1662 Formation : ELGIN SD  
Section : 3 Township : 34S  
Range : 13W County : BARBER State : KANSAS  
Gauge SN # : 13552 Range : 4050 Clock : 12

| TIME GAUGE<br>(MIN) | TESTER TYPE | ORFICE<br>SIZE | PRESSURE<br>(PSI) | FLOW DESCRIPTION |
|---------------------|-------------|----------------|-------------------|------------------|
|---------------------|-------------|----------------|-------------------|------------------|

PRE FLOW

SECOND FLOW

|    |       |      |    |                 |
|----|-------|------|----|-----------------|
| 32 | MERLA | 1/4" |    | INCHES OF WATER |
| 35 |       |      | 16 | GAS TO SURFACE  |
| 45 |       |      | 17 | 6720 CFPD       |
|    |       |      |    | 6930 CFPD       |

Gas Bottle SN # : 22  
Date Bottle Filled : 9-22-87  
Date to be Invoiced :

WESTERN TESTING CO. INC.  
WICHITA - KANSAS

Pressure Transient Report  
-----

COMPANY : AMERICAN ENERGIES CORP.  
RIG : BARBER-KANSAS  
FIELD : ALLEN  
WELL : #1  
DATE : 9-22-87  
GAUGE NO : 13552

OPERATIONAL COMMENTS

COMPANY : AMERICAN ENERGIES CORP.  
 WELL : #1  
 GAUGE # : 13552  
 DATE : 22/ 9/87

FIELD : ALLEN  
 JOB # : 11817  
 DEPTH : 3705  
 TEST :

| DATA No. | REAL TIME HR:MN:SS | ELAPSE TIME DELTA HOURS | PRESSURE PSIG | TEMP DEG F | DELTA P P1-P(i-1) |
|----------|--------------------|-------------------------|---------------|------------|-------------------|
| 1        | 7:50: 0            | 0.000                   | 51.000        | 114.00     | 0.000             |
| 2        | 7:54:59            | 0.083                   | 51.000        | 114.00     | 0.000             |
| 3        | 8: 0: 0            | 0.167                   | 51.000        | 114.00     | 0.000             |
| 4        | 8: 5: 0            | 0.250                   | 51.000        | 114.00     | 0.000             |
| 5        | 8: 9:59            | 0.333                   | 51.000        | 114.00     | 0.000             |
| 6        | 8:15: 0            | 0.417                   | 51.000        | 114.00     | 0.000             |
| 7        | 8:20: 0            | 0.500                   | 51.000        | 114.00     | 0.000             |
| 8        | 8:23: 0            | 0.550                   | 55.000        | 114.00     | 4.000             |
| 9        | 8:26: 0            | 0.600                   | 93.000        | 114.00     | 38.000            |
| 10       | 8:29: 0            | 0.650                   | 175.000       | 114.00     | 82.000            |
| 11       | 8:32: 0            | 0.700                   | 259.000       | 114.00     | 84.000            |
| 12       | 8:35: 0            | 0.750                   | 355.000       | 114.00     | 96.000            |
| 13       | 8:38: 0            | 0.800                   | 458.000       | 114.00     | 103.000           |
| 14       | 8:41: 0            | 0.850                   | 562.000       | 114.00     | 104.000           |
| 15       | 8:44: 0            | 0.900                   | 677.000       | 114.00     | 115.000           |
| 16       | 8:47: 0            | 0.950                   | 787.000       | 114.00     | 110.000           |
| 17       | 8:50: 0            | 1.000                   | 892.000       | 114.00     | 105.000           |
| 18       | 8:53: 0            | 1.050                   | 986.000       | 114.00     | 94.000            |
| 19       | 8:56: 0            | 1.100                   | 1084.000      | 114.00     | 98.000            |
| 20       | 8:59: 0            | 1.150                   | 1153.000      | 114.00     | 69.000            |
| 21       | 9: 2: 0            | 1.200                   | 1214.000      | 114.00     | 61.000            |
| 22       | 9: 5: 0            | 1.250                   | 1273.000      | 114.00     | 59.000            |
| 23       | 9: 8: 0            | 1.300                   | 1316.000      | 114.00     | 43.000            |
| 24       | 9:11: 0            | 1.350                   | 1341.000      | 114.00     | 25.000            |
| 25       | 9:14: 0            | 1.400                   | 1363.000      | 114.00     | 22.000            |
| 26       | 9:17: 0            | 1.450                   | 1380.000      | 114.00     | 17.000            |
| 27       | 9:18: 0            | 1.467                   | 45.000        | 114.00     | -1335.000         |
| 28       | 9:21:59            | 1.533                   | 45.000        | 114.00     | 0.000             |
| 29       | 9:27: 0            | 1.617                   | 45.000        | 114.00     | 0.000             |
| 30       | 9:32: 0            | 1.700                   | 45.000        | 114.00     | 0.000             |
| 31       | 9:36:59            | 1.783                   | 45.000        | 114.00     | 0.000             |
| 32       | 9:42: 0            | 1.867                   | 45.000        | 114.00     | 0.000             |
| 33       | 9:47: 0            | 1.950                   | 45.000        | 114.00     | 0.000             |
| 34       | 9:51:59            | 2.033                   | 45.000        | 114.00     | 0.000             |
| 35       | 9:57: 0            | 2.117                   | 45.000        | 114.00     | 0.000             |
| 36       | 10: 2: 0           | 2.200                   | 45.000        | 114.00     | 0.000             |
| 37       | 10: 5: 0           | 2.250                   | 131.000       | 114.00     | 86.000            |
| 38       | 10: 8: 0           | 2.300                   | 261.000       | 114.00     | 130.000           |
| 39       | 10:11: 0           | 2.350                   | 442.000       | 114.00     | 181.000           |
| 40       | 10:14: 0           | 2.400                   | 599.000       | 114.00     | 157.000           |
| 41       | 10:17: 0           | 2.450                   | 771.000       | 114.00     | 172.000           |
| 42       | 10:20: 0           | 2.500                   | 895.000       | 114.00     | 124.000           |
| 43       | 10:23: 0           | 2.550                   | 1018.000      | 114.00     | 123.000           |
| 44       | 10:26: 0           | 2.600                   | 1117.000      | 114.00     | 99.000            |
| 45       | 10:29: 0           | 2.650                   | 1186.000      | 114.00     | 69.000            |
| 46       | 10:32: 0           | 2.700                   | 1242.000      | 114.00     | 56.000            |
| 47       | 10:35: 0           | 2.750                   | 1284.000      | 114.00     | 42.000            |
| 48       | 10:38: 0           | 2.800                   | 1309.000      | 114.00     | 25.000            |
| 49       | 10:41: 0           | 2.850                   | 1337.000      | 114.00     | 28.000            |
| 50       | 10:44: 0           | 2.900                   | 1354.000      | 114.00     | 17.000            |
| 51       | 10:47: 0           | 2.950                   | 1366.000      | 114.00     | 12.000            |
| 52       | 10:50: 0           | 3.000                   | 1379.000      | 114.00     | 13.000            |

COMPANY : AMERICAN ENERGIES CORP.  
WELL : #1  
GAUGE # : 13552  
DATE : 22/ 9/87

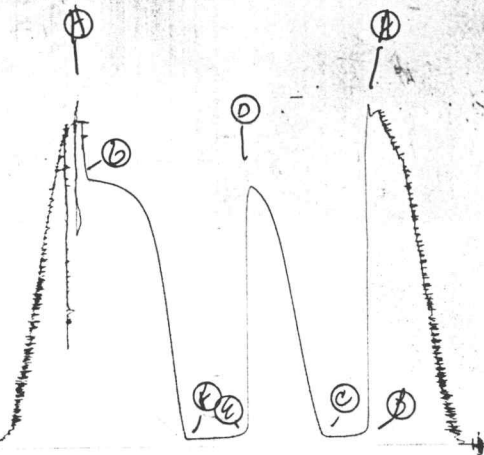
FIELD : ALLEN  
JOB # : 11817  
DEPTH : 3705  
TEST :

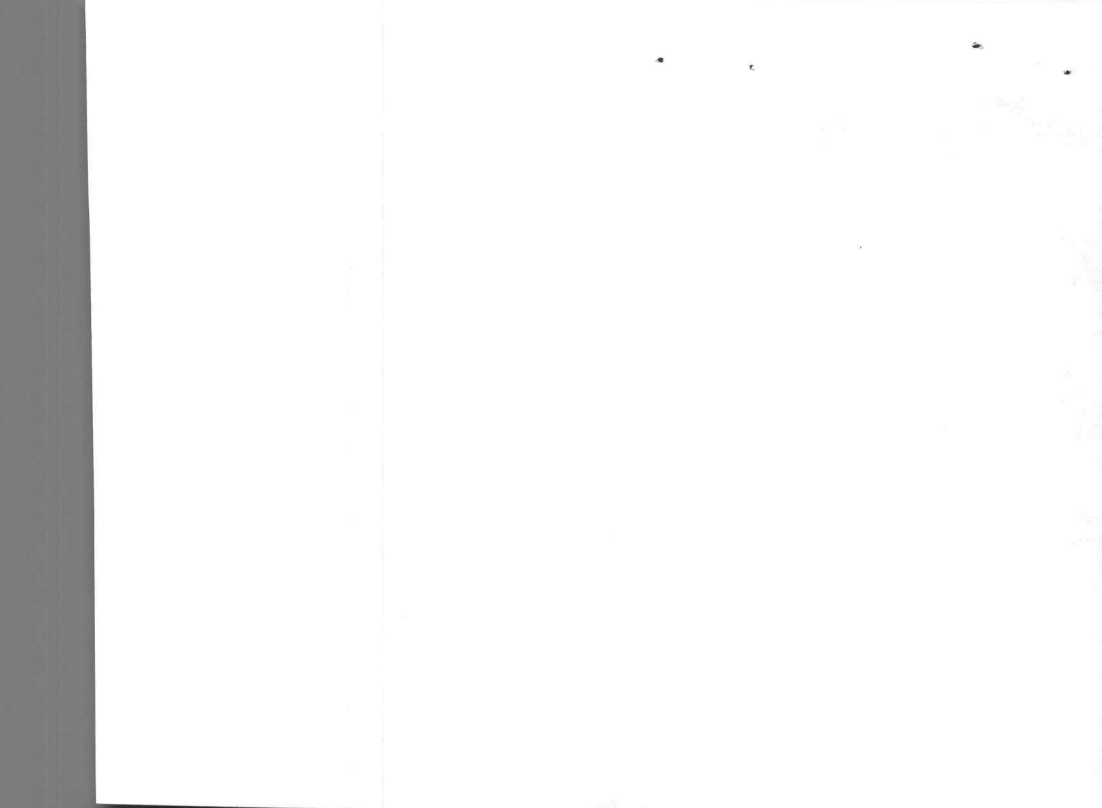
| DATA<br>No. | REAL TIME<br>HR:MN:SS | ELAPSE TIME<br>DELTA HOURS | PRESSURE<br>PSIG | TEMP<br>DEG F | DELTA P<br>P1-P(1-1) |
|-------------|-----------------------|----------------------------|------------------|---------------|----------------------|
| 53          | 10:53: 0              | 3.050                      | 1389.000         | 114.00        | 10.000               |
| 54          | 10:56: 0              | 3.100                      | 1396.000         | 114.00        | 7.000                |
| 55          | 10:59: 0              | 3.150                      | 1402.000         | 114.00        | 6.000                |
| 56          | 11: 2: 0              | 3.200                      | 1408.000         | 114.00        | 6.000                |
| 57          | 11: 5: 0              | 3.250                      | 1411.000         | 114.00        | 3.000                |
| 58          | 11: 8: 0              | 3.300                      | 1415.000         | 114.00        | 4.000                |
| 59          | 11:11: 0              | 3.350                      | 1420.000         | 114.00        | 5.000                |
| 60          | 11:14: 0              | 3.400                      | 1423.000         | 114.00        | 3.000                |

WESTERN TESTING CO. INC.

KA # 11817

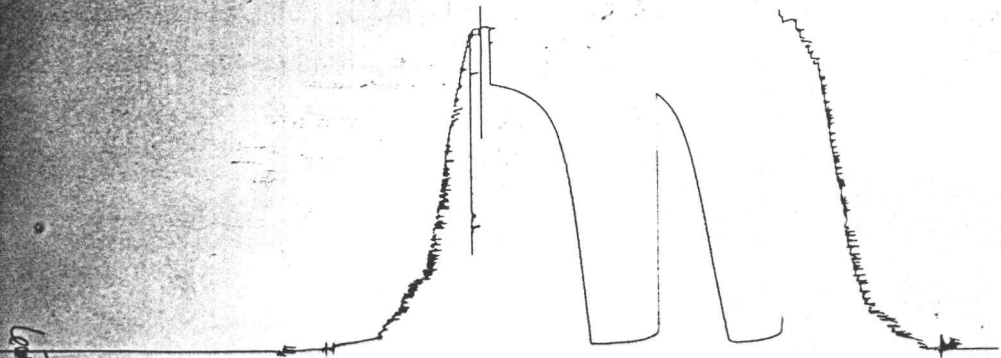
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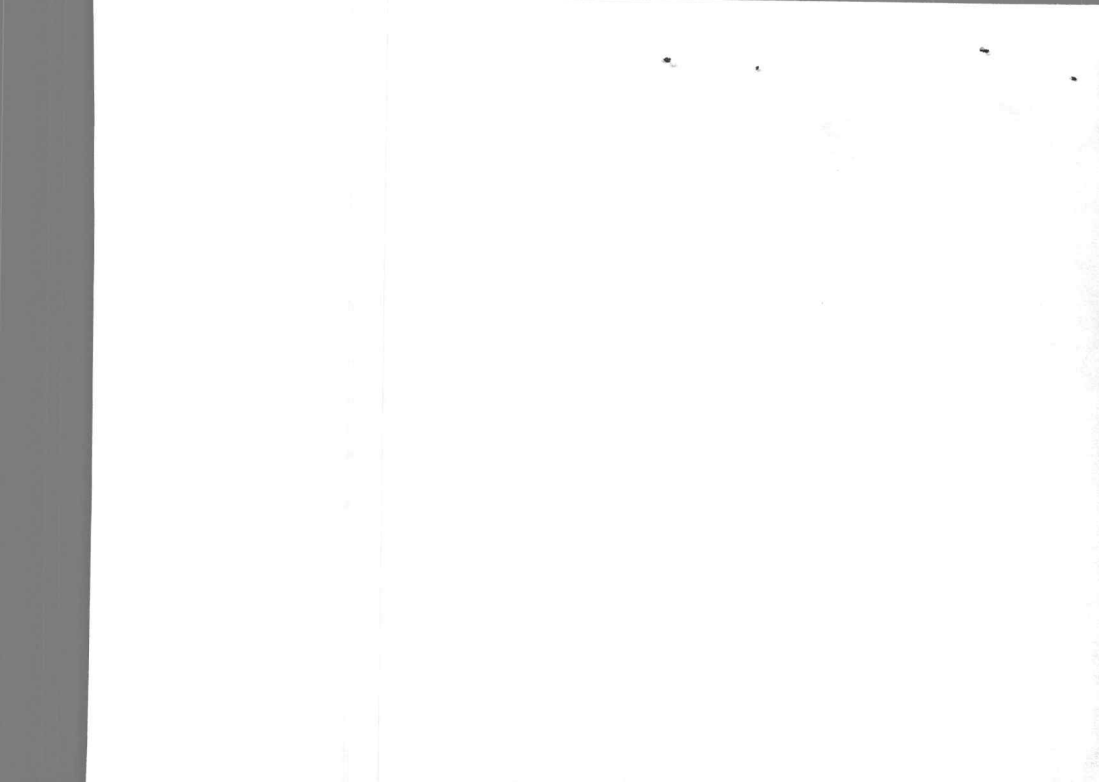


Site # 11817

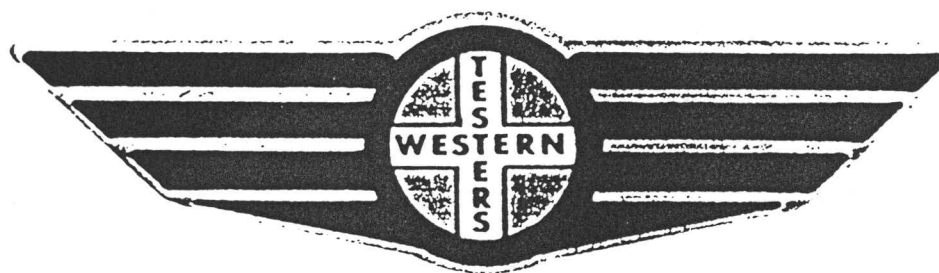
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# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 9-23-87  
CUSTOMER : AMERICAN ENERGIES CORP.  
WELL : #1 TEST: 2  
ELEVATION : 1662 KB  
SECTION : 3  
RANGE : 13W COUNTY : BARBER  
GAUGE SN# : 13552 RANGE : 4050  
TICKET : 11818  
LEASE : ALLEN  
GEOLOGIST : W. HART  
FORMATION : ELGIN SD  
TOWNSHIP : 34S  
STATE : KANSAS  
CLOCK : 12

INTERVAL FROM : 3675 TO : 3712 TOTAL DEPTH : 3712  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 3670 SIZE : 6.63  
PACKER DEPTH : 3675 SIZE : 6.63  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : ALLEN RIG #5  
MUD TYPE : CHEMICAL VISCOSITY : 49  
WEIGHT : 8.8 WATER LOSS (CC) : 11.2  
CHLORIDES (PPM) : 7500  
JARS-MAKE : WTC SERIAL NUMBER : 408  
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 : 3646 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 29 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 37 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 : STRONG BLOW THROUGHTOUT BOTH FLOW PERIODS.  
BLOW COMMENT #2 :  
BLOW COMMENT #3 :  
BLOW COMMENT #4 :

RECOVERED : 30 FT OF: GAS CUT MUD

Total Barrels Fluid = 0.42  
Total Fluid Prod Rate = 10.10 BFPD  
Indicated Wtr Rate = 1.01 BHPD

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

SET PACKER(S) : 7:50 AM

TIME STARTED OFF BOTTOM : 10:50 AM

WELL TEMPERATURE : 114

INITIAL HYDROSTATIC PRESSURE

(A) 1718

INITIAL FLOW PERIOD MIN: 30

(B) 61

PSI TO (C) : 61

INITIAL CLOSED IN PERIOD MIN: 57

(D) 1265

FINAL FLOW PERIOD MIN: 30

(E) 58

PSI TO (F) : 58

FINAL CLOSED IN PERIOD MIN: 63

(G) 1403

FINAL HYDROSTATIC PRESSURE

(H) 1718

WESTERN TESTING CO. INC.  
WICHITA - KANSAS

Pressure Transient Report  
-----

COMPANY : AMERICAN ENERGIES CORP.  
RIG : BARBER-KANSAS  
FIELD : ALLEN  
WELL : #1  
DATE : 9-23-87  
GAUGE NO : 13552

OPERATIONAL COMMENTS

COMPANY : AMERICAN ENERGIES CORP.  
 WELL : #1  
 GAUGE # : 13552  
 DATE : 23/ 9/87

FIELD : ALLEN  
 JOB # : 11818  
 DEPTH : 3712  
 TEST :

| DATA No. | REAL TIME HR:MN:SS | ELAPSE TIME DELTA HOURS | PRESSURE PSIG | TEMP DEG F | DELTA P Pi-P(i-1) |
|----------|--------------------|-------------------------|---------------|------------|-------------------|
| 1        | 7:50: 0            | 0.000                   | 61.000        | 114.00     | 0.000             |
| 2        | 7:54:59            | 0.083                   | 61.000        | 114.00     | 0.000             |
| 3        | 8: 0: 0            | 0.167                   | 61.000        | 114.00     | 0.000             |
| 4        | 8: 5: 0            | 0.250                   | 61.000        | 114.00     | 0.000             |
| 5        | 8: 9:59            | 0.333                   | 61.000        | 114.00     | 0.000             |
| 6        | 8:15: 0            | 0.417                   | 61.000        | 114.00     | 0.000             |
| 7        | 8:20: 0            | 0.500                   | 61.000        | 114.00     | 0.000             |
| 8        | 8:23: 0            | 0.550                   | 65.000        | 114.00     | 4.000             |
| 9        | 8:26: 0            | 0.600                   | 78.000        | 114.00     | 13.000            |
| 10       | 8:29: 0            | 0.650                   | 110.000       | 114.00     | 32.000            |
| 11       | 8:32: 0            | 0.700                   | 157.000       | 114.00     | 47.000            |
| 12       | 8:35: 0            | 0.750                   | 212.000       | 114.00     | 55.000            |
| 13       | 8:38: 0            | 0.800                   | 290.000       | 114.00     | 78.000            |
| 14       | 8:41: 0            | 0.850                   | 356.000       | 114.00     | 66.000            |
| 15       | 8:44: 0            | 0.900                   | 440.000       | 114.00     | 84.000            |
| 16       | 8:47: 0            | 0.950                   | 520.000       | 114.00     | 80.000            |
| 17       | 8:50: 0            | 1.000                   | 610.000       | 114.00     | 90.000            |
| 18       | 8:53: 0            | 1.050                   | 692.000       | 114.00     | 82.000            |
| 19       | 8:56: 0            | 1.100                   | 792.000       | 114.00     | 100.000           |
| 20       | 8:59: 0            | 1.150                   | 881.000       | 114.00     | 89.000            |
| 21       | 9: 2: 0            | 1.200                   | 977.000       | 114.00     | 96.000            |
| 22       | 9: 5: 0            | 1.250                   | 1042.000      | 114.00     | 65.000            |
| 23       | 9: 8: 0            | 1.300                   | 1113.000      | 114.00     | 71.000            |
| 24       | 9:11: 0            | 1.350                   | 1168.000      | 114.00     | 55.000            |
| 25       | 9:14: 0            | 1.400                   | 1227.000      | 114.00     | 59.000            |
| 26       | 9:17: 0            | 1.450                   | 1265.000      | 114.00     | 38.000            |
| 27       | 9:18: 0            | 1.467                   | 58.000        | 114.00     | -1207.000         |
| 28       | 9:21:59            | 1.533                   | 58.000        | 114.00     | 0.000             |
| 29       | 9:27: 0            | 1.617                   | 58.000        | 114.00     | 0.000             |
| 30       | 9:32: 0            | 1.700                   | 58.000        | 114.00     | 0.000             |
| 31       | 9:36:59            | 1.783                   | 58.000        | 114.00     | 0.000             |
| 32       | 9:42: 0            | 1.867                   | 58.000        | 114.00     | 0.000             |
| 33       | 9:47: 0            | 1.950                   | 58.000        | 114.00     | 0.000             |
| 34       | 9:50: 0            | 2.000                   | 143.000       | 114.00     | 85.000            |
| 35       | 9:53: 0            | 2.050                   | 252.000       | 114.00     | 109.000           |
| 36       | 9:56: 0            | 2.100                   | 369.000       | 114.00     | 117.000           |
| 37       | 9:59: 0            | 2.150                   | 491.000       | 114.00     | 122.000           |
| 38       | 10: 2: 0           | 2.200                   | 610.000       | 114.00     | 119.000           |
| 39       | 10: 5: 0           | 2.250                   | 717.000       | 114.00     | 107.000           |
| 40       | 10: 8: 0           | 2.300                   | 825.000       | 114.00     | 108.000           |
| 41       | 10:11: 0           | 2.350                   | 942.000       | 114.00     | 117.000           |
| 42       | 10:14: 0           | 2.400                   | 1017.000      | 114.00     | 75.000            |
| 43       | 10:17: 0           | 2.450                   | 1095.000      | 114.00     | 78.000            |
| 44       | 10:20: 0           | 2.500                   | 1158.000      | 114.00     | 63.000            |
| 45       | 10:23: 0           | 2.550                   | 1206.000      | 114.00     | 48.000            |
| 46       | 10:26: 0           | 2.600                   | 1259.000      | 114.00     | 53.000            |
| 47       | 10:29: 0           | 2.650                   | 1294.000      | 114.00     | 35.000            |
| 48       | 10:32: 0           | 2.700                   | 1326.000      | 114.00     | 32.000            |
| 49       | 10:35: 0           | 2.750                   | 1350.000      | 114.00     | 24.000            |
| 50       | 10:38: 0           | 2.800                   | 1364.000      | 114.00     | 14.000            |
| 51       | 10:41: 0           | 2.850                   | 1381.000      | 114.00     | 17.000            |
| 52       | 10:44: 0           | 2.900                   | 1392.000      | 114.00     | 11.000            |

COMPANY : AMERICAN ENERGIES CORP.  
WELL : #1  
GAUGE # : 13552  
DATE : 23/ 9/87

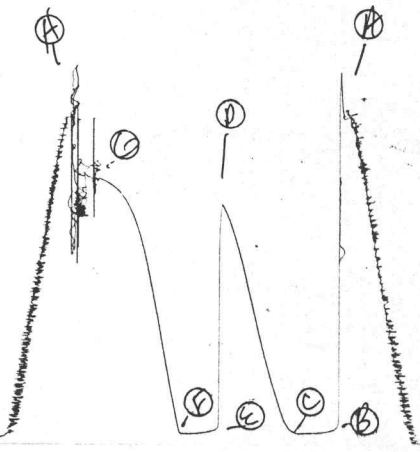
FIELD : ALLEN  
JOB # : 11818  
DEPTH : 3712  
TEST :

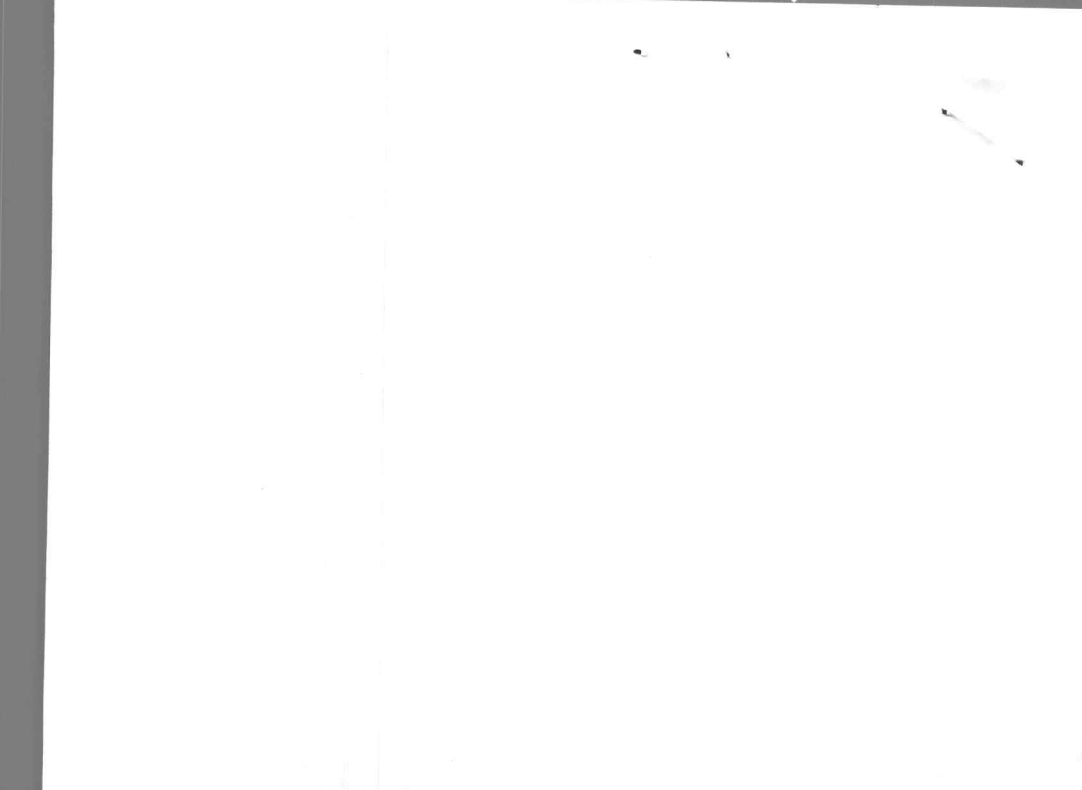
| DATA<br>No. | REAL TIME<br>HR:MN:SS | ELAPSE TIME<br>DELTA HOURS | PRESSURE<br>PSIG | TEMP<br>DEG F | DELTA P<br>P1-P(1-1) |
|-------------|-----------------------|----------------------------|------------------|---------------|----------------------|
| 53          | 10:47: 0              | 2.950                      | 1403.000         | 114.00        | 11.000               |
| 54          | 10:50: 0              | 3.000                      | 1403.000         | 114.00        | 0.000                |

WESTERN TESTING CO. INC.

It # 11818

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