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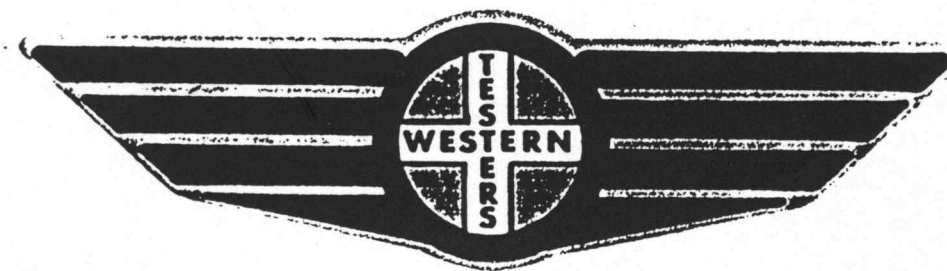
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# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY JOHN J DARRAH, JR.

LEASE & WELL NO.

CISS B-1

SEC. 26

TWP. 15S

RGE. 25W

TEST NO. 1

DATE

2/24/88

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

|           |   |                     |           |   |             |
|-----------|---|---------------------|-----------|---|-------------|
| DATE      | : | 2-24-88             | TICKET    | : | 13803       |
| CUSTOMER  | : | JOHN JAY DARRAH JR. | LEASE     | : | GIESS       |
| WELL      | : | #B-1 TEST: 1        | GEOLOGIST | : | W. SHEPHERD |
| ELEVATION | : | 2523 GL             | FORMATION | : | MISSISSIPPI |
| SECTION   | : | 26                  | TOWNSHIP  | : | 15S         |
| RANGE     | : | 25W                 | STATE     | : | KANSAS      |
| GAUGE SN# | : | 1566                | CLOCK     | : | 12          |
|           |   | COUNTY :            | TREGO     |   |             |
|           |   | RANGE :             | 4300      |   |             |

|                         |   |      |      |   |      |             |   |      |
|-------------------------|---|------|------|---|------|-------------|---|------|
| INTERVAL FROM           | : | 4395 | TO   | : | 4490 | TOTAL DEPTH | : | 4490 |
| DEPTH OF SELECTIVE ZONE | : |      |      |   |      |             |   |      |
| PACKER DEPTH            | : | 4390 | SIZE | : | 6.75 |             |   |      |
| PACKER DEPTH            | : | 4395 | SIZE | : | 6.75 |             |   |      |
| PACKER DEPTH            | : |      | SIZE | : |      |             |   |      |
| PACKER DEPTH            | : |      | SIZE | : |      |             |   |      |

|                 |   |               |                 |   |    |
|-----------------|---|---------------|-----------------|---|----|
| DRILLING CON.   | : | MALLARD RIG 1 |                 |   |    |
| MUD TYPE        | : | CHEMICAL      | VISCOSITY       | : | 42 |
| WEIGHT          | : | 9.3           | WATER LOSS (CC) | : | 14 |
| CHLORIDES (PPM) | : | 10000         |                 |   |    |
| JARS-MAKE       | : | -             | SERIAL NUMBER   | : |    |
| DID WELL FLOW ? | : | NO            | REVERSED OUT ?  | : | NO |

|                     |   |       |    |                   |   |        |
|---------------------|---|-------|----|-------------------|---|--------|
| DRILL COLLAR LENGTH | : | 300   | FT | I.D. inch         | : | 2.20   |
| WEIGHT PIPE LENGTH  | : | 0     | FT | I.D. inch         | : | 0.00   |
| DRILL PIPE LENGTH   | : | 4072  | FT | I.D. inch         | : | 3.80   |
| TEST TOOL LENGTH    | : | 23    | FT | TOOL SIZE         | : | 5.50   |
| ANCHOR LENGTH       | : | 95    | 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 : INITIAL FLOW-WEAK BLOW BUILDING TO FAIR-7" IN BUCKET.  
BLOW COMMENT #2 : FINAL FLOW-WEAK BLOW BUILDING TO STRONG-9" IN BUCKET.  
BLOW COMMENT #3 :  
BLOW COMMENT #4 :

RECOVERED : 100 FT OF: CLEAN GASSY OIL  
41 GRAVITY @ 72 DEG.F / 40 CORRECTED  
RECOVERED : 150 FT OF: SLIGHTLY OIL CUT MUD  
10% OIL-10% GAS-80% MUD

CHLORIDES: 11000 PPM

Total Barrels Fluid = 1.18  
Total Fluid Prod Rate = 22.57 BFPD  
Indicated Oil Rate = 10.38 BOPD  
Indicated Wtr Rate = 1.08 BWPD  
Corrected Oil Rate = 13.90 BOPD  
Corrected Wtr Rate = 1.45 RWPD

REMARK 1 : TOOL PICKED UP TOO  
HIGH INITIAL SHUT-IN.

REMARK 2 :

REMARK 3 :

REMARK 4 :

SET PACKER(S) : 5:30 PM

WELL TEMPERATURE : 121

INITIAL HYDROSTATIC PRESSURE

INITIAL FLOW PERIOD MIN: 30

INITIAL CLOSED IN PERIOD MIN: 30

FINAL FLOW PERIOD MIN: 45

FINAL CLOSED IN PERIOD MIN: 45

FINAL HYDROSTATIC PRESSURE

TIME STARTED OFF BOTTOM : 8:00 PM

(A) 2254

(B) 76 PSI TO (C) : 76

(D) 1275

(E) 131 PSI TO (F) : 131

(G) 1040

(H) 2240

WESTERN TESTING CO. INC.  
WICHITA-KANSAS

Pressure Transient Report  
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COMPANY : JOHN JAY DARRAH JR.  
RIG : TREGO-KANSAS  
FIELD : GIESS  
WELL : #B-1  
DATE : 2-24-88  
GAUGE NO : 1566

OPERATIONAL COMMENTS

TOOL PICKED UP TOO  
HIGH INITIAL SHUT-IN.

COMPANY : JOHN JAY DARRAH JR.  
WELL : #B-1  
GAUGE # : 1566  
DATE : 24/ 2/88

FIELD : GIESS  
JOB # : 13803  
DEPTH : 4490  
TEST : TOOL PICKED UP TOO  
HIGH INITIAL SHUT-IN.

| DATA<br>No. | REAL TIME<br>HR:MN:SS | ELAPSE TIME<br>DELTA HOURS | PRESSURE<br>PSIG | TEMP<br>DEG F | DELTA P<br>Pi-P(i-1) |
|-------------|-----------------------|----------------------------|------------------|---------------|----------------------|
| 1           | 5:30: 0               | 0.000                      | 76.000           | 121.00        | 0.000                |
| 2           | 5:34:59               | 0.083                      | 76.000           | 121.00        | 0.000                |
| 3           | 5:40: 0               | 0.167                      | 76.000           | 121.00        | 0.000                |
| 4           | 5:45: 0               | 0.250                      | 76.000           | 121.00        | 0.000                |
| 5           | 5:49:59               | 0.333                      | 76.000           | 121.00        | 0.000                |
| 6           | 5:55: 0               | 0.417                      | 76.000           | 121.00        | 0.000                |
| 7           | 6: 0: 0               | 0.500                      | 76.000           | 121.00        | 0.000                |
| 8           | 6: 3: 0               | 0.550                      | 1892.000         | 121.00        | 1816.000             |
| 9           | 6: 6: 0               | 0.600                      | 1599.000         | 121.00        | -293.000             |
| 10          | 6: 9: 0               | 0.650                      | 1478.000         | 121.00        | -121.000             |
| 11          | 6:12: 0               | 0.700                      | 1398.000         | 121.00        | -80.000              |
| 12          | 6:15: 0               | 0.750                      | 1353.000         | 121.00        | -45.000              |
| 13          | 6:18: 0               | 0.800                      | 1322.000         | 121.00        | -31.000              |
| 14          | 6:21: 0               | 0.850                      | 1296.000         | 121.00        | -26.000              |
| 15          | 6:24: 0               | 0.900                      | 1285.000         | 121.00        | -11.000              |
| 16          | 6:27: 0               | 0.950                      | 1281.000         | 121.00        | -4.000               |
| 17          | 6:30: 0               | 1.000                      | 1275.000         | 121.00        | -6.000               |
| 18          | 6:31: 0               | 1.017                      | 131.000          | 121.00        | -1144.000            |
| 19          | 6:34:59               | 1.083                      | 131.000          | 121.00        | 0.000                |
| 20          | 6:40: 0               | 1.167                      | 131.000          | 121.00        | 0.000                |
| 21          | 6:45: 0               | 1.250                      | 131.000          | 121.00        | 0.000                |
| 22          | 6:49:59               | 1.333                      | 131.000          | 121.00        | 0.000                |
| 23          | 6:55: 0               | 1.417                      | 131.000          | 121.00        | 0.000                |
| 24          | 7: 0: 0               | 1.500                      | 131.000          | 121.00        | 0.000                |
| 25          | 7: 4:59               | 1.583                      | 131.000          | 121.00        | 0.000                |
| 26          | 7:10: 0               | 1.667                      | 131.000          | 121.00        | 0.000                |
| 27          | 7:15: 0               | 1.750                      | 131.000          | 121.00        | 0.000                |
| 28          | 7:18: 0               | 1.800                      | 410.000          | 121.00        | 279.000              |
| 29          | 7:21: 0               | 1.850                      | 578.000          | 121.00        | 168.000              |
| 30          | 7:24: 0               | 1.900                      | 699.000          | 121.00        | 121.000              |
| 31          | 7:27: 0               | 1.950                      | 774.000          | 121.00        | 75.000               |
| 32          | 7:30: 0               | 2.000                      | 830.000          | 121.00        | 56.000               |
| 33          | 7:33: 0               | 2.050                      | 871.000          | 121.00        | 41.000               |
| 34          | 7:36: 0               | 2.100                      | 908.000          | 121.00        | 37.000               |
| 35          | 7:39: 0               | 2.150                      | 933.000          | 121.00        | 25.000               |
| 36          | 7:42: 0               | 2.200                      | 957.000          | 121.00        | 24.000               |
| 37          | 7:45: 0               | 2.250                      | 974.000          | 121.00        | 17.000               |
| 38          | 7:48: 0               | 2.300                      | 995.000          | 121.00        | 21.000               |
| 39          | 7:51: 0               | 2.350                      | 1011.000         | 121.00        | 16.000               |
| 40          | 7:54: 0               | 2.400                      | 1020.000         | 121.00        | 9.000                |
| 41          | 7:57: 0               | 2.450                      | 1032.000         | 121.00        | 12.000               |
| 42          | 8: 0: 0               | 2.500                      | 1040.000         | 121.00        | 8.000                |

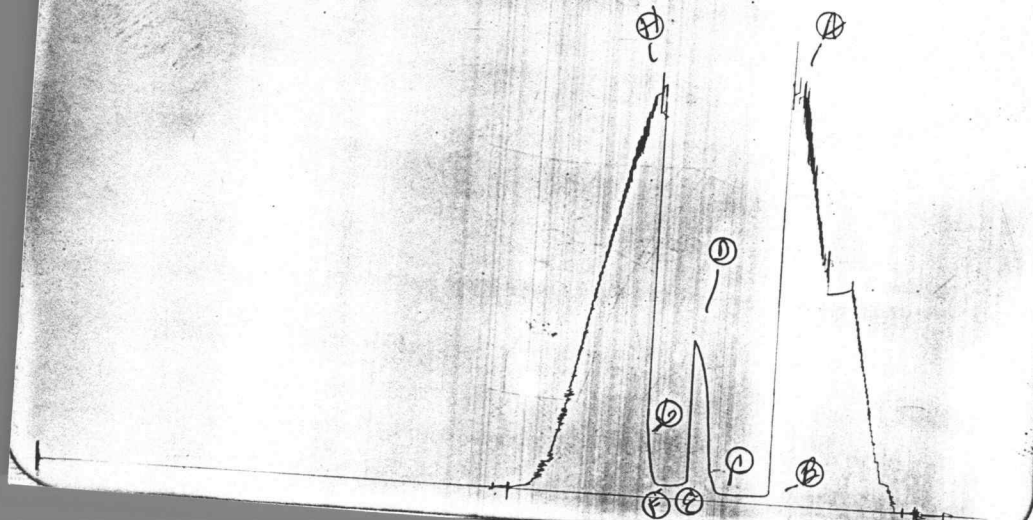
WESTERN TESTING CO. INC.

1566

AK # 13804

DARRAH  
PSTL

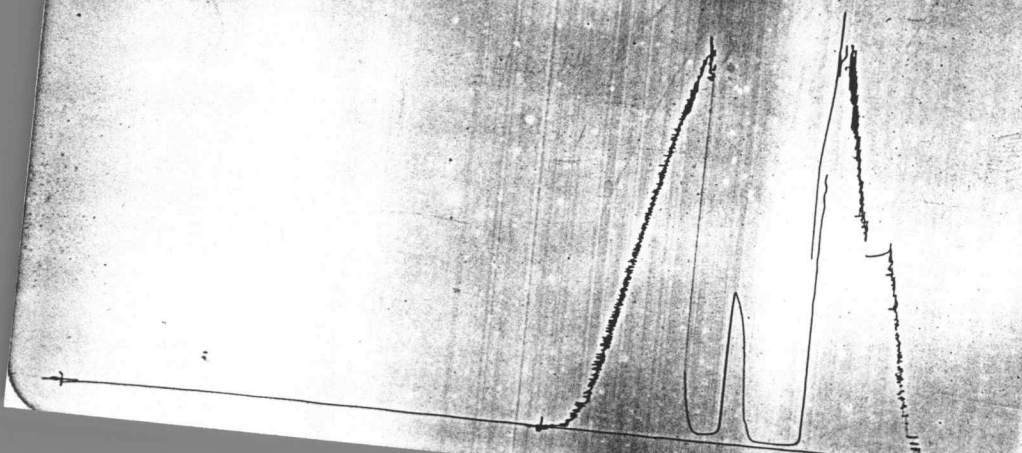
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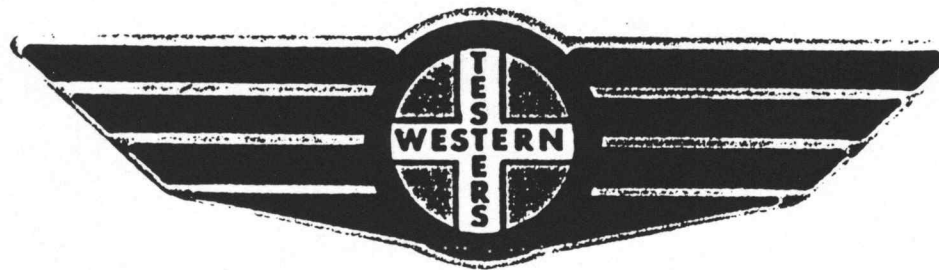
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JK #13804  
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DARRAH 17  
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# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY

JOHN J DARRAH, JR.

LEASE & WELL NO.

GISS B-1

SEC. 26

TWP. 15S

RGE. 25W

TEST NO. 2

DATE

2/25/88

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

|           |                       |           |               |
|-----------|-----------------------|-----------|---------------|
| DATE      | : 2-25-88             | TICKET    | : 13804       |
| CUSTOMER  | : JOHN JAY DARRAH JR. | LEASE     | : GIESS       |
| WELL      | : #B-1 TEST: 2        | GEOLOGIST | : W. SHEPHERD |
| ELEVATION | : 2523 GL             | FORMATION | : MISSISSIPPI |
| SECTION   | : 26                  | TOWNSHIP  | : 15S         |
| RANGE     | : 25W                 | STATE     | : KANSAS      |
| GAUGE SN# | : 1566                | CLOCK     | : 12          |
|           | COUNTY : TREGO        |           |               |
|           | RANGE : 4300          |           |               |

|                         |        |      |        |             |        |
|-------------------------|--------|------|--------|-------------|--------|
| INTERVAL FROM           | : 4490 | TO   | : 4506 | TOTAL DEPTH | : 4506 |
| DEPTH OF SELECTIVE ZONE | :      |      |        |             |        |
| PACKER DEPTH            | : 4485 | SIZE | : 6.75 |             |        |
| PACKER DEPTH            | : 4490 | SIZE | : 6.75 |             |        |
| PACKER DEPTH            | :      | SIZE | :      |             |        |
| PACKER DEPTH            | :      | SIZE | :      |             |        |

|                 |                 |                 |      |
|-----------------|-----------------|-----------------|------|
| DRILLING CON.   | : MALLARD RIG 1 |                 |      |
| MUD TYPE        | : CHEMICAL      | VISCOSITY       | : 42 |
| WEIGHT          | : 9.3           | WATER LOSS (CC) | : 14 |
| CHLORIDES (PPM) | : 10000         |                 |      |
| JARS-MAKE       | : -             | SERIAL NUMBER   | :    |
| DID WELL FLOW ? | : NO            | REVERSED OUT ?  | : NO |

|                     |         |    |                   |          |
|---------------------|---------|----|-------------------|----------|
| DRILL COLLAR LENGTH | : 300   | FT | I.D. inch         | : 2.20   |
| WEIGHT PIPE LENGTH  | : 0     | FT | I.D. inch         | : 0.00   |
| DRILL PIPE LENGTH   | : 4167  | FT | I.D. inch         | : 3.80   |
| TEST TOOL LENGTH    | : 23    | FT | TOOL SIZE         | : 5.50   |
| ANCHOR LENGTH       | : 16    | 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 : WEAK SURFACE BLOW ON BOTH FLOW PERIODS.  
BLOW COMMENT #2 :  
BLOW COMMENT #3 :  
BLOW COMMENT #4 :

RECOVERED : 5 FT OF: FREE OIL  
RECOVERED : 55 FT OF: OIL CUT MUD  
10% OIL-90% MUD

CHLORIDES: 11000 PPM

Total Barrels Fluid = 0.28  
Total Fluid Prod Rate = 9.03 BFPD  
Indicated Oil Rate = 1.58 BOPD  
Indicated Wtr Rate = 0.75 BWPD  
Corrected Oil Rate = 11.79 BOPD  
Corrected Wtr Rate = 5.61 BWPD

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

SET PACKER(S) : 7:25 AM

TIME STARTED OFF BOTTOM : 8:55 AM

WELL TEMPERATURE : 121

INITIAL HYDROSTATIC PRESSURE

INITIAL FLOW PERIOD MIN: 30

INITIAL CLOSED IN PERIOD MIN: 30

FINAL FLOW PERIOD MIN: 15

FINAL CLOSED IN PERIOD MIN: 18

FINAL HYDROSTATIC PRESSURE

(A) 2340

(B) 45 PSI TO (C) : 45

(D) 900

(E) 73 PSI TO (F) : 73

(G) 418

(H) 2332

COMPANY : JOHN JAY DARRAH JR.  
WELL : #B-1  
GAUGE # : 1566  
DATE : 25/ 2/88

FIELD : GIESS  
JOB # : 13804  
DEPTH : 4506  
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>Pi-P(i-1) |
|-------------|-----------------------|----------------------------|------------------|---------------|----------------------|
| 1           | 7:25: 0               | 0.000                      | 45.000           | 121.00        | 0.000                |
| 2           | 7:29:59               | 0.083                      | 45.000           | 121.00        | 0.000                |
| 3           | 7:35: 0               | 0.167                      | 45.000           | 121.00        | 0.000                |
| 4           | 7:40: 0               | 0.250                      | 45.000           | 121.00        | 0.000                |
| 5           | 7:44:59               | 0.333                      | 45.000           | 121.00        | 0.000                |
| 6           | 7:50: 0               | 0.417                      | 45.000           | 121.00        | 0.000                |
| 7           | 7:55: 0               | 0.500                      | 45.000           | 121.00        | 0.000                |
| 8           | 7:58: 0               | 0.550                      | 45.000           | 121.00        | 0.000                |
| 9           | 8: 1: 0               | 0.600                      | 48.000           | 121.00        | 3.000                |
| 10          | 8: 4: 0               | 0.650                      | 52.000           | 121.00        | 4.000                |
| 11          | 8: 7: 0               | 0.700                      | 109.000          | 121.00        | 57.000               |
| 12          | 8:10: 0               | 0.750                      | 212.000          | 121.00        | 103.000              |
| 13          | 8:13: 0               | 0.800                      | 489.000          | 121.00        | 277.000              |
| 14          | 8:16: 0               | 0.850                      | 674.000          | 121.00        | 185.000              |
| 15          | 8:19: 0               | 0.900                      | 761.000          | 121.00        | 87.000               |
| 16          | 8:22: 0               | 0.950                      | 841.000          | 121.00        | 80.000               |
| 17          | 8:25: 0               | 1.000                      | 900.000          | 121.00        | 59.000               |
| 18          | 8:26: 0               | 1.017                      | 73.000           | 121.00        | -827.000             |
| 19          | 8:29:59               | 1.083                      | 73.000           | 121.00        | 0.000                |
| 20          | 8:35: 0               | 1.167                      | 73.000           | 121.00        | 0.000                |
| 21          | 8:40: 0               | 1.250                      | 73.000           | 121.00        | 0.000                |
| 22          | 8:43: 0               | 1.300                      | 73.000           | 121.00        | 0.000                |
| 23          | 8:46: 0               | 1.350                      | 76.000           | 121.00        | 3.000                |
| 24          | 8:49: 0               | 1.400                      | 99.000           | 121.00        | 23.000               |
| 25          | 8:52: 0               | 1.450                      | 181.000          | 121.00        | 82.000               |
| 26          | 8:53: 0               | 1.500                      | 331.000          | 121.00        | 150.00               |
| 27          | 8:58: 0               | 1.550                      | 418.000          | 121.00        | 87.000               |

WESTERN TESTING CO. INC.