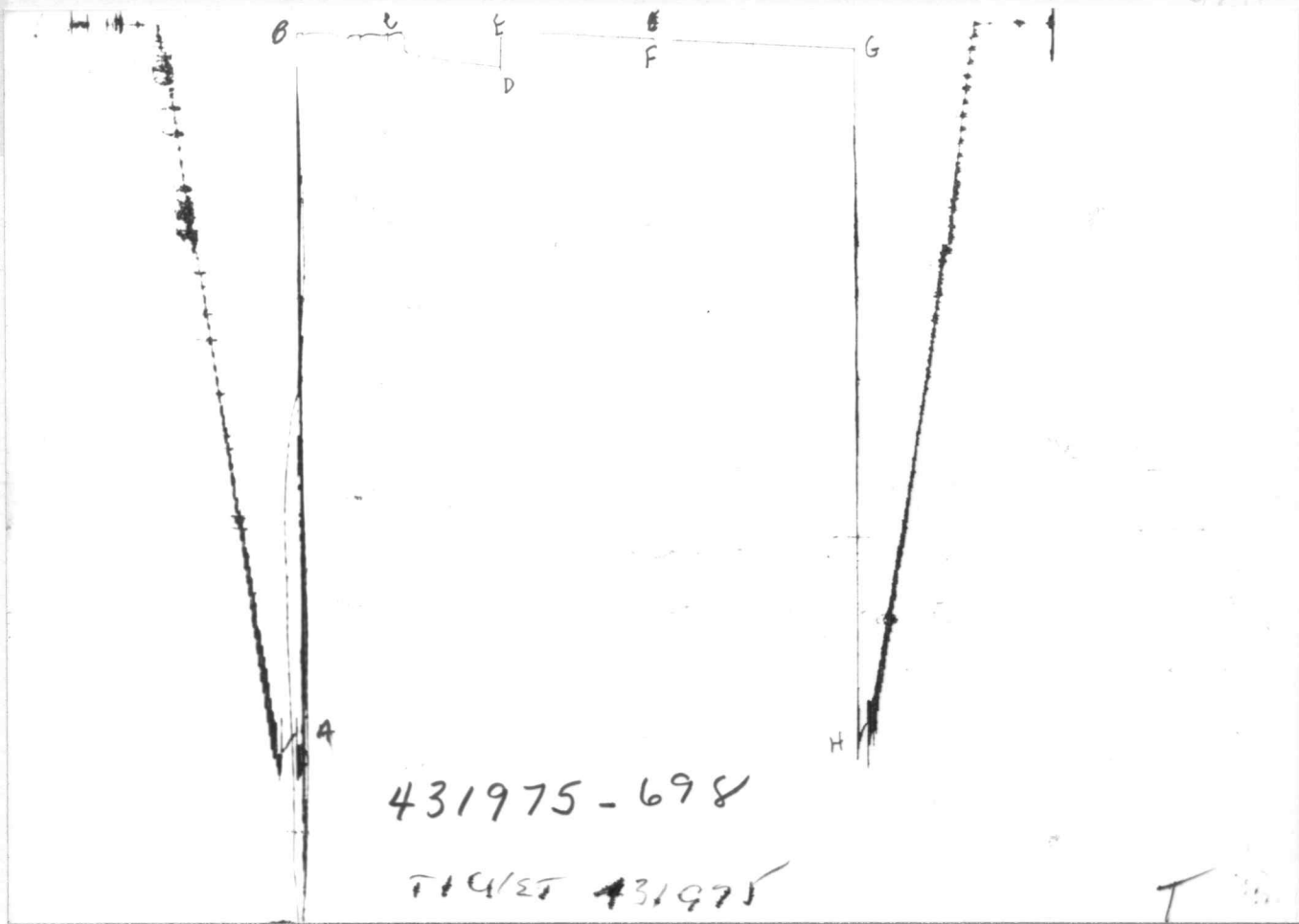


HLJUN UNKUH B-4 4 THE MURKILL L. BRUNN LUMPHRY
 LEASE NAME WELL NO. TEST NO. LEASE OWNER/COMPANY NAME
 LEGAL LOCATION 22-30-18 FIELD AREA COUNTY KIOWA STATE KANSAS DR
 SEC. - TYP. - RNG.



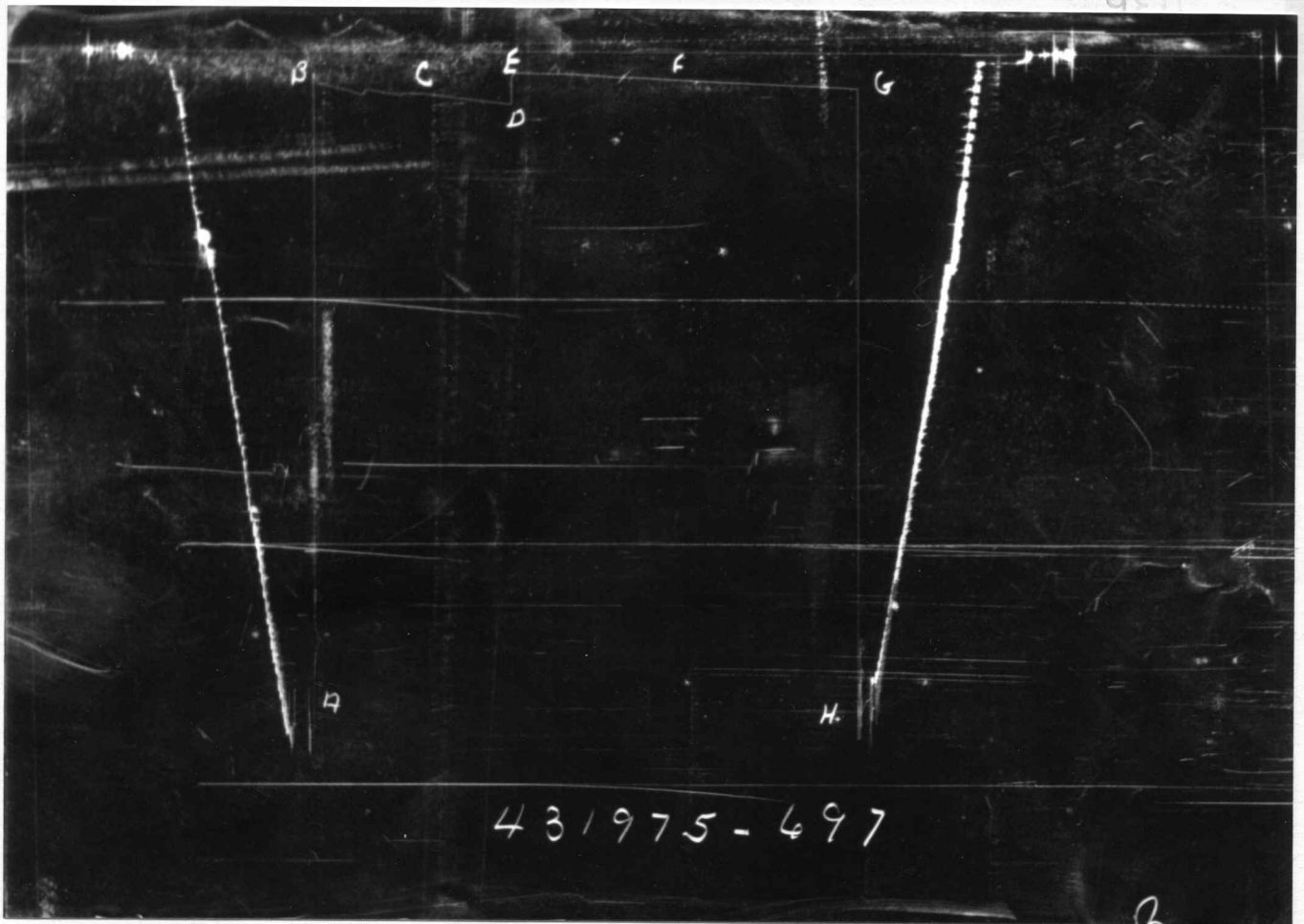
TICKET NO. 43197500
 28-OCT-82
 PRATT

FORMATION TESTING SERVICE REPORT



GAUGE NO: 698 DEPTH: 5030.0 BLANKED OFF: NO HOUR OF CLOCK: 12

| ID | DESCRIPTION | PRESSURE | | TIME | | TYPE |
|----|--------------------------|----------|------------|----------|------------|------|
| | | REPORTED | CALCULATED | REPORTED | CALCULATED | |
| A | INITIAL HYDROSTATIC | | 2626.9 | | | |
| B | INITIAL FIRST FLOW | | 35.2 | | | |
| C | FINAL FIRST FLOW | | 31.0 | 60.0 | 60.0 | F |
| C | INITIAL FIRST CLOSED-IN | | 31.0 | | | |
| D | FINAL FIRST CLOSED-IN | | 159.2 | 60.0 | 60.0 | C |
| E | INITIAL SECOND FLOW | | 50.5 | | | |
| F | FINAL SECOND FLOW | | 56.6 | 90.0 | 90.0 | F |
| F | INITIAL SECOND CLOSED-IN | | 56.6 | | | |
| G | FINAL SECOND CLOSED-IN | | 93.6 | 120.0 | 120.0 | C |
| H | FINAL HYDROSTATIC | | 2598.9 | | | |



GAUGE NO: 697 DEPTH: 5131.0 BLANKED OFF: YES HOUR OF CLOCK: 12

| ID | DESCRIPTION | PRESSURE | | TIME | | TYPE |
|----|--------------------------|----------|------------|----------|------------|------|
| | | REPORTED | CALCULATED | REPORTED | CALCULATED | |
| A | INITIAL HYDROSTATIC | 2656 | 2651.1 | | | |
| B | INITIAL FIRST FLOW | 79 | 86.9 | 60.0 | 60.0 | F |
| C | FINAL FIRST FLOW | 159 | 171.9 | | | |
| C | INITIAL FIRST CLOSED-IN | 159 | 171.9 | 60.0 | 60.0 | C |
| D | FINAL FIRST CLOSED-IN | 219 | 212.9 | | | |
| E | INITIAL SECOND FLOW | 89 | 101.4 | 90.0 | 90.0 | F |
| F | FINAL SECOND FLOW | 99 | 109.4 | | | |
| F | INITIAL SECOND CLOSED-IN | 99 | 109.4 | 120.0 | 120.0 | C |
| G | FINAL SECOND CLOSED-IN | 125 | 142.5 | | | |
| H | FINAL HYDROSTATIC | 2635 | 2643.2 | | | |

EQUIPMENT & HOLE DATA

FORMATION TESTED: MISSISSIPPI
 NET PAY (ft): _____
 GROSS TESTED FOOTAGE: 71.0
 ALL DEPTHS MEASURED FROM: KELLY BUSHING
 CASING PERFS. (ft): _____
 HOLE OR CASING SIZE (in): 7.875
 ELEVATION (ft): 2232
 TOTAL DEPTH (ft): 5134.0
 PACKER DEPTH(S) (ft): 5045, 5063
 FINAL SURFACE CHOKE (in): 1.000
 BOTTOM HOLE CHOKE (in): 0.750
 MUD WEIGHT (lb/gal): 9.60
 MUD VISCOSITY (sec): 54
 ESTIMATED HOLE TEMP. (°F): _____
 ACTUAL HOLE TEMP. (°F): 122 @ 5129.0 ft

TICKET NUMBER: 43197500
 DATE: 10-20-82 TEST NO: 4
 TYPE DST: OPEN HOLE
 HALLIBURTON CAMP: PRATT
 TESTER: L.R. PARKER
D. GRAHAM
 WITNESS: B. MILLER
 DRILLING CONTRACTOR: ABERCROMBIE DRILLING COMPANY

FLUID PROPERTIES FOR RECOVERED MUD & WATER

| SOURCE | RESISTIVITY | CHLORIDES |
|--------|------------------|-----------|
| _____ | _____ @ _____ °F | _____ ppm |
| _____ | _____ @ _____ °F | _____ ppm |
| _____ | _____ @ _____ °F | _____ ppm |
| _____ | _____ @ _____ °F | _____ ppm |
| _____ | _____ @ _____ °F | _____ ppm |
| _____ | _____ @ _____ °F | _____ ppm |

SAMPLER DATA

Pstg AT SURFACE: _____
 cu.ft. OF GAS: _____
 cc OF OIL: _____
 cc OF WATER: _____
 cc OF MUD: _____
 TOTAL LIQUID cc: _____

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): _____ @ _____ °F
 GAS/OIL RATIO (cu.ft. per bbl): _____
 GAS GRAVITY: _____

CUSHION DATA

| TYPE | AMOUNT | WEIGHT |
|-------|--------|--------|
| _____ | _____ | _____ |
| _____ | _____ | _____ |

RECOVERED:





















30' OF MUD

MEASURED FROM

REMARKS:

NO PRODUCTION TEST DATA OR JOB LOG PROVIDED.

CHARTS INDICATE PLUGGING OF ANCHOR PERFORATIONS DURING FIRST FLOW PERIOD

| | | O.D. | I.D. | LENGTH | DEPTH | |
|----|---|-------------------------------|-------|--------|--------|--------|
| 1 |  | DRILL PIPE..... | 4.500 | 3.826 | 4632.0 | |
| 4 |  | FLEX WEIGHT..... | 4.500 | 2.764 | 291.0 | |
| 50 |  | IMPACT REVERSING SUB..... | 6.000 | 2.750 | 1.0 | 4923.0 |
| 4 |  | FLEX WEIGHT..... | 4.500 | 2.764 | 93.0 | |
| 5 |  | CROSSOVER..... | 6.000 | 2.250 | 1.0 | |
| 12 |  | DUAL CIP VALVE..... | 5.000 | 0.870 | 6.0 | |
| 60 |  | HYDROSPRING TESTER..... | 5.000 | 0.750 | 5.0 | 5028.0 |
| 80 |  | AP RUNNING CASE..... | 5.000 | 3.060 | 4.0 | 5030.0 |
| 15 |  | JAR..... | 5.000 | 1.750 | 5.0 | |
| 16 |  | VR SAFETY JOINT..... | 5.000 | 1.000 | 3.0 | |
| 70 |  | OPEN HOLE PACKER..... | 6.750 | 1.530 | 6.0 | 5045.0 |
| 22 |  | BLANK ANCHOR..... | 5.000 | 2.370 | 12.0 | |
| 70 |  | OPEN HOLE PACKER..... | 6.750 | 1.530 | 6.0 | 5063.0 |
| 20 |  | FLUSH JOINT ANCHOR..... | 5.000 | 2.370 | 6.0 | |
| 5 |  | CROSSOVER..... | 6.000 | 2.250 | 1.0 | |
| 4 |  | FLEX WEIGHT..... | 4.500 | 2.764 | 31.0 | |
| 5 |  | CROSSOVER..... | 6.000 | 2.250 | 1.0 | |
| 20 |  | FLUSH JOINT ANCHOR..... | 5.000 | 2.370 | 25.0 | |
| 83 |  | HT-500 TEMPERATURE CASE..... | 5.000 | 2.440 | 1.0 | 5129.0 |
| 81 |  | BLANKED-OFF RUNNING CASE..... | 5.000 | 2.440 | 4.0 | 5131.0 |
| | | TOTAL DEPTH | | | | 5134.0 |

EQUIPMENT DATA