

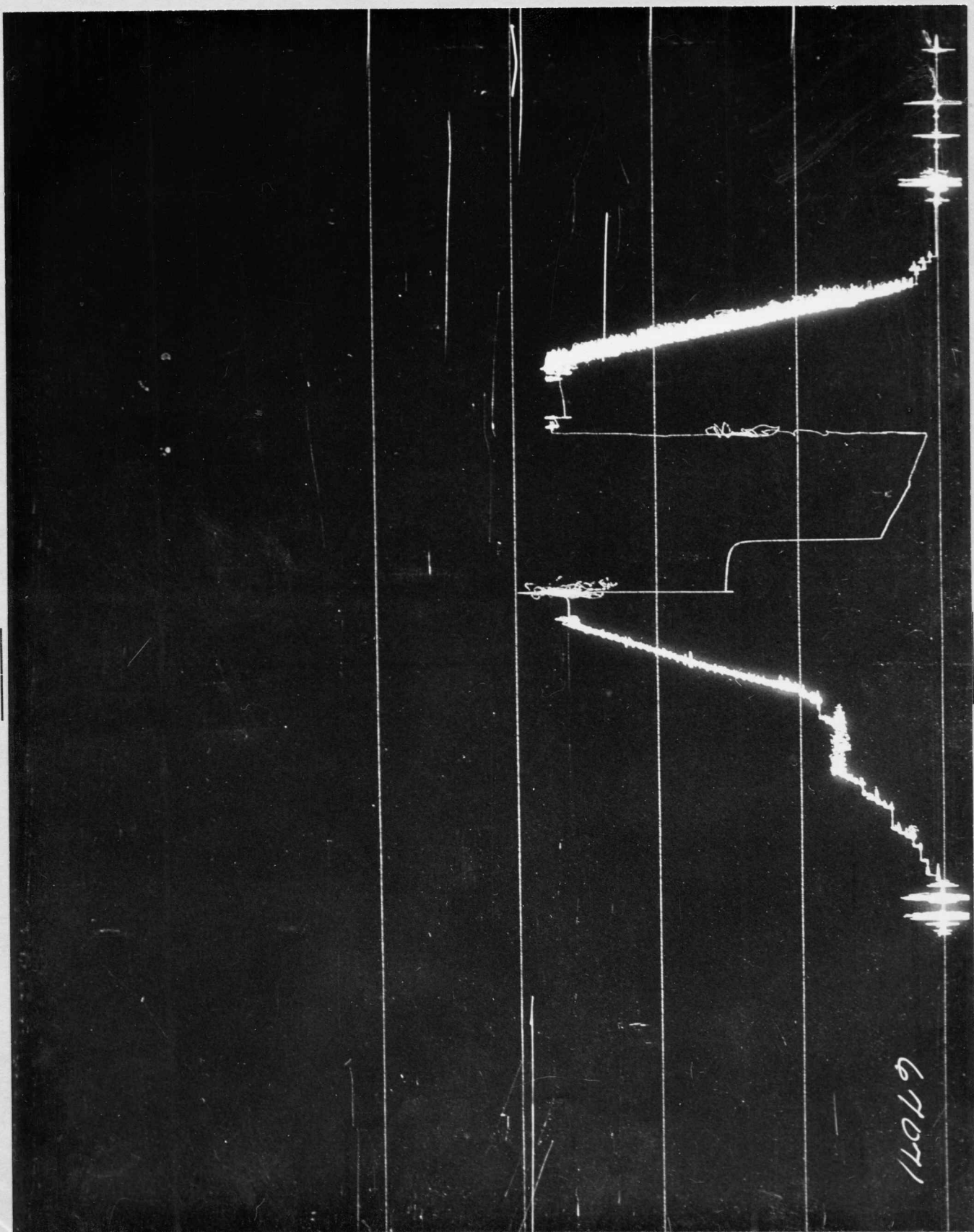


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|----------------------------|--|-----------------------------|--|--|--|-------------------------|--|
| LOCATION | | SEC: 28-29-18 | | DATE | | 3-29-57 | |
| FIELD | | Nichols | | TICKET NO. | | 67071 | |
| COUNTY | | Kiowa | | HOWCO DISTRICT | | Patt | |
| STATE | | Kansas | | KIND OF JOB | | Open Hole Test | |
| CONTRACTOR | | Galcon-Seaboard | | PRICE | | \$226.00 | |
| MUD DATA | | Top Packer Depth 4937' | | Bottom Packer Depth - | | Second Packer Assembly | |
| Kind | | Starch | | Casing or Hole Size 7 7/8" | | Liner or Rathole Size - | |
| Weight | | 10 lbs.-gal. | | Formation Tested | | Mississippi | |
| Viscosity | | 55 | | Size Drill Pipe 4 1/2" API FH | | Size Drill Collars - | |
| Filter Loss | | 10. c. Filter Cake 2/32 in. | | Size Bottom Choke 3/4" | | Size Surface Choke 1" | |
| Est. Gauge Depth Temp. | | Calc. 120 F° | | Size Hook Wall Packer - | | Size Rings - | |
| Time Tool Opened | | 60 minutes | | Size & Type Wall Packer 6 3/4" SEMP | | No. Packers 1 | |
| Time Closed In. | | 30 minutes | | Size & Length Anchor 5" x 30' | | PRD Device No. 1604 | |
| Depth BT. Gauge | | 4953' | | Depth 4962' | | Blanked Off Yes | |
| BT. P.R.D. No. | | 697 | | Blanked Off No | | REMARKS: | |
| 12 Hr. Clock No. | | 2232 | | Interval tested 4937' to 4967' in the Mississippi. | | | |
| Pressure Readings | | Field | | Office Corrected | | | |
| Initial Hydro Mud Pressure | | 2688 p.s.i. | | gauged approximately 67,000 M.C.F., 57,400 M.C.F. in 30 minutes, 51,300 | | | |
| Initial Flow Pres. | | 95 p.s.i. | | in 45 minutes, 25,600 M.C.F. in 60 minutes, closed in pressure taken @ | | | |
| Final Flow Pres. | | 425 p.s.i. | | 7:18 A. M., and started off bottom @ 7:48 A. M. Recovered 47 1/4' of muddy | | | |
| Closed in Pres. | | 1515 p.s.i. | | oil, 1156' of free oil. | | | |
| Final Hydro Mud Pressure | | 2643 p.s.i. | | Amount of Cushion | | none | |
| | | | | All depths measured from | | Killy Bushing | |
| | | | | No. Folders Reproduced | | 5 | |

PRESSURE

Top Recorder

TIME



Each Horizontal Line Equal to 1000 p.s.i.

KOEIN
LEASE

11
WELL NO.

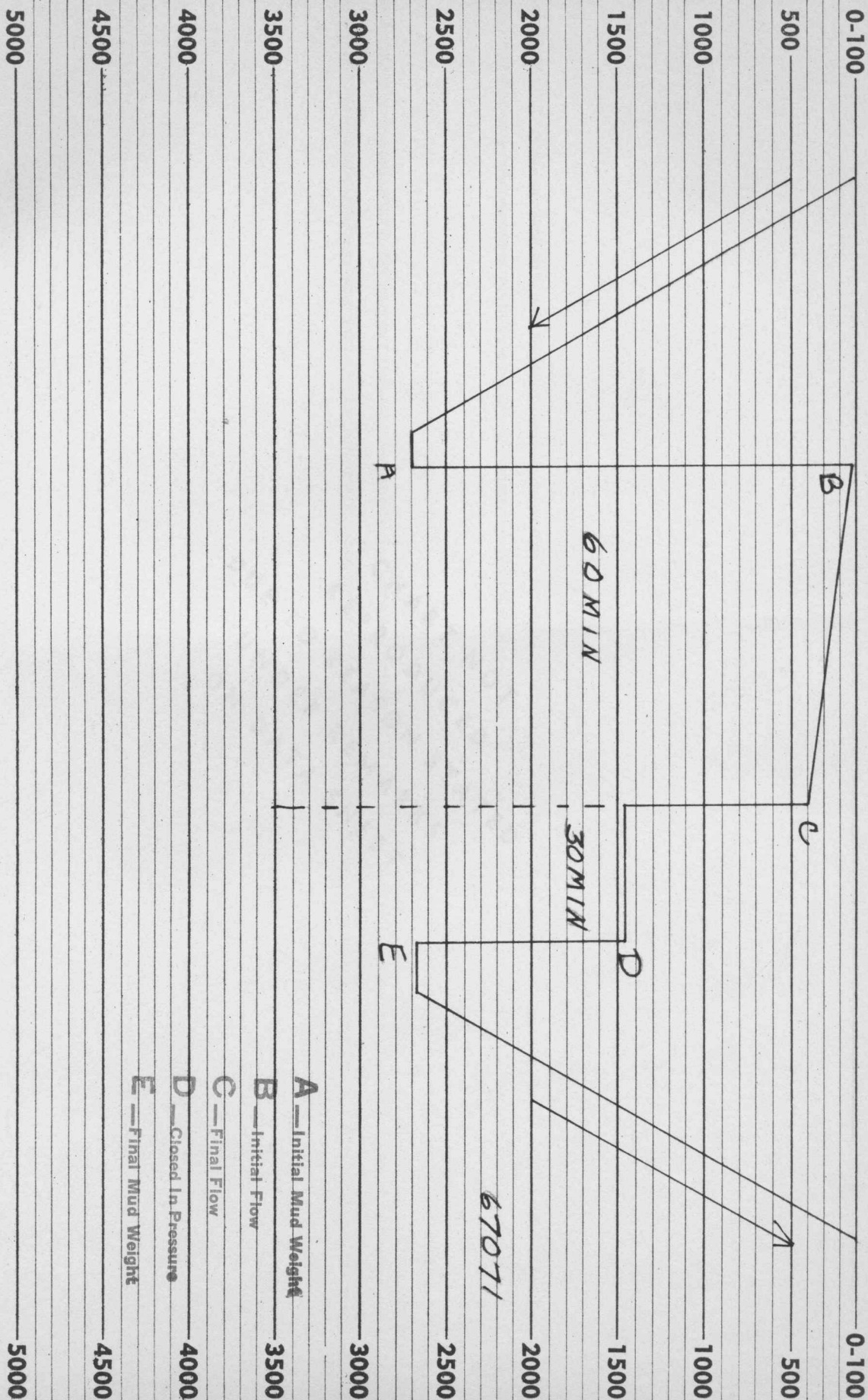
1
TEST NO.

GULF OIL CORPORATION
COMPANY

WICHITA
DISTRICT

Bottom Recorder

TIME



HOWCO—LITTLE S 5125 2M 10-56

Each Horizontal Line Equal to 1000 p.s.i.

D E T A N A L Y S I S R E P O R T

DATE REPORTED November 7, 1957 DATE TESTED March 29, 1957
 FILE NO. 0130-09-01 GAUGE NO. BT PRD 697

Since the results of a test depend upon many factors and since tests are made for many purposes, the comments and conclusions below refer solely to the values of the test for pressure extrapolation by our techniques. This report is not intended to be either an endorsement or a criticism.

In the event that further analyses reveal additional information, an amended report will be submitted.

PETROLEUM RESEARCH CORPORATION

| | | | | | |
|---|----------|-----------------|--|--|------------------|
| Gulf Oil Corporation | | | (29S-18W) 28 | | |
| Company | | | Location | | Formation Tested |
| Koehn | | | Kiowa | | Kansas |
| Lease | | | County | | State |
| #11 | #1 | 4937'-4967' | KB 2207' | | 4953' |
| Well No. | Test No. | Interval Tested | Elevation | | Gauge Depth |
| EXTRAPOLATED PRESSURE = 1545 ± 2 psi | | | Extrapolated initial & final closed-in pressures disagree. | | |
| POTENTIOMETRIC SURFACE = 850 ± 200 ft | | | Insufficient data reported. | | |
| EFFECTIVE TRANSMISS. = 1392 md ft/cp | | | Chart is unusable. | | |
| AVERAGE PERMEABILITY (Viscosity estimated from reported recovery) = md | | | Insufficient air-chamber, or leakage into air-chamber, for initial closed-in time. | | |
| PRODUCTIVITY INDEX = 0.497 B/D / psi | | | Initial closed-in time too short for section tested and air-chamber provided. | | |
| DAMAGE RATIO = 3.17 | | | Closed-in pressure not taken. | | |
| DAMAGE EFFECT = x | | | Formation fluid insufficiently sampled. | | |
| none slight moderate | | | Possibility of nearby barrier. | | |
| strong indeterminate | | | Clock slippage indicated. | | |
| x Extrapolated pressure indefinite. | | | Gauge friction indicated. | | |
| x Closed-in time insufficient. | | | Tool disturbance indicated. | | |
| Reported pressures disagree with chart. | | | Plugging indicated. | | |
| Build-up curve susceptible to mud leakage. | | | | | |
| x Mud pressure from chart does not agree with mud pressure calculated from reported mud weight. | | | | | |