

NEW MEXICO  
OIL CONSERVATION COMMISSION  
Back Pressure Data Sheet

Form C-122

Pool: **San Jose - Monument** Date: **March 26, 1956**

Company: **Sinclair Oil & Gas Company** Lease: **M. S. Berryman BERRYMAN** Well No. **1**

County: **Lea** Sec. **11** Twp. **21 S** Rge. **36 E** Loc. **SW SE**

**6.336** ID casing set @ **3780** ; **2.441** ID tubing **2.5** OD tubing set @ **3890**

Pay zone from **3548'** to **3648'** ; Separator gas gr. **732** Barometer rdg. **13.2**

Reservoir temperature **92** ° Produced through: csg. **-** tbg. **X**

Average gas/liquid ratio during test: **None** Cu. ft. / bbl. gravity of liquid **None** ° API

Size of meter run or prover: **2" Critical Flow Prover**

Packer set @ **3506'**

OBSERVED DATA

Wellhead shut-in pressure,  $P_w$  Casing **Packer** Tubing **1070** PSIA

| Run No. | Orifice Size | Orifice x Line | Meter Pressures   |             | Coefficient C<br>Flg. tap<br>Pipe tap | Wellhead Pr.         |                      | Flowing Temp. |          |
|---------|--------------|----------------|-------------------|-------------|---------------------------------------|----------------------|----------------------|---------------|----------|
|         |              |                | Static $P_m$ Abs. | Diff. $h_w$ |                                       | Casing $P_{wc}$ Abs. | Tubing $P_{wc}$ Abs. | Meter         | Wellhead |
| 1       | 1/8"         | 2" CFP         | 983               | -           | .341                                  |                      | 983                  | 68            | 68       |
| 2       | 3/16"        |                | 842               | -           | .783                                  |                      | 842                  | 68            | 68       |
| 3       | 7/32"        |                | 768               | -           | 1.081                                 |                      | 768                  | 68            | 68       |
| 4       | 1/4"         |                | 708               | -           | 1.400                                 |                      | 708                  | 68            | 68       |

DATA FOR PLOTTING CURVE

| Run No. | Delivery Rate in MCF per 24 hours (Q) | $P_f^2 - P_s^2$ (thousands) |
|---------|---------------------------------------|-----------------------------|
| 1       | 112                                   | 232                         |
| 2       | 660                                   | 595                         |
| 3       | 823                                   | 706                         |
| 4       | 974                                   | 814                         |
| 5       |                                       |                             |

Absolute Open Flow **1700** MCF

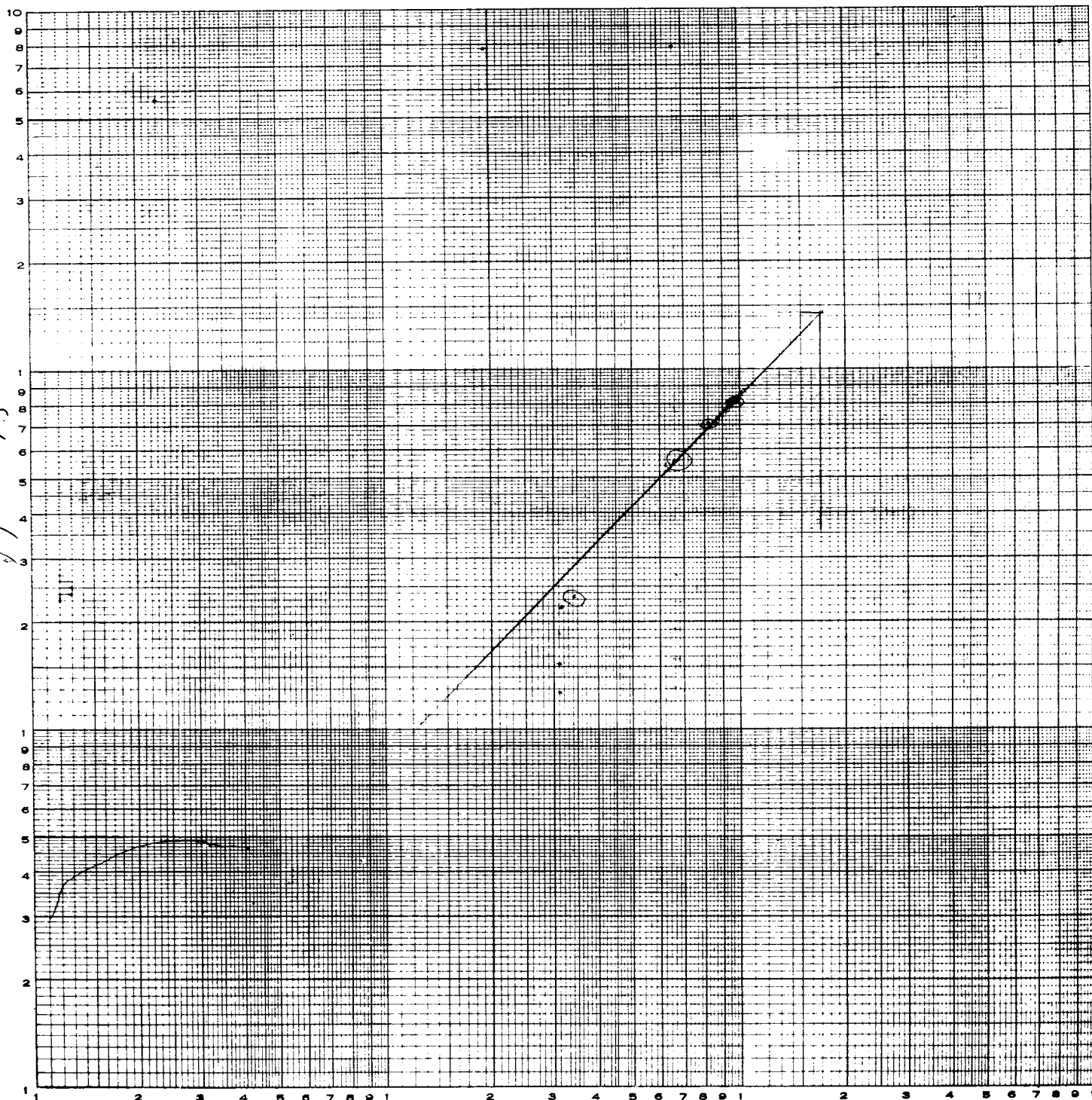
CERTIFICATION: I hereby swear or affirm that, to the best of my knowledge, the information given above is true and correct.

Name: **R. L. Harned** Position: **Gas Analyst**

Company: **Sinclair Oil & Gas Company** Address: **520 East Broadway - Hobbs, New Mexico**

Please plot curve on back

$P_2 - P_3$   
 $P_2 - P_3$



$\theta = 46^\circ$

$N = .966$

$Rcf = 1700 \text{ mcf}$

$Q \text{ IN mcf}$