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O. C. D.  
ARTESIA, OFFICE

NEW MEXICO OIL CONSERVATION COMMISSION  
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122  
Revised 9-1-63

dst. File

|                                                                                                                                  |                             |                                    |                                                           |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------|-----------------------------------------------------------|
| Type Test<br>4POINT <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |                             | Test Date<br>12/19/86              |                                                           |
| Company<br>COQUINA OIL CORP.                                                                                                     |                             | Connection<br>EL PASO NAT. GAS     |                                                           |
| Pool<br>DUBLIN RANCH                                                                                                             |                             | Formation<br>MORROW                |                                                           |
| Completion Date<br>12/16/86                                                                                                      |                             | Total Depth<br>12730               |                                                           |
| Elev. Size<br>5.000                                                                                                              |                             | Elevation<br>12221                 |                                                           |
| Wt.<br>18                                                                                                                        |                             | Well No.<br>1                      |                                                           |
| d<br>4.276                                                                                                                       |                             | Set At<br>12730                    |                                                           |
| Perforations:<br>From 12178 To 12221                                                                                             |                             | Farm or Lease Name<br>HARROUN COM. |                                                           |
| Perforations:<br>From OPEN To ENDED                                                                                              |                             | Unit<br>B                          |                                                           |
| Type Well - Single - Bradenhead - G.G. or G.C. Multiple<br>SINGLE                                                                |                             | County<br>EDDY                     |                                                           |
| Producing Thru<br>TUBING                                                                                                         |                             | State<br>NEW MEXICO                |                                                           |
| Reservoir Temp. °F<br>194 @ 12199.5                                                                                              |                             | Mean Annual Temp. °F<br>60         |                                                           |
| Baro. Press. - P <sub>g</sub><br>13.2                                                                                            |                             | Factor Set At<br>12100.88          |                                                           |
| L<br>12199.5                                                                                                                     |                             | Motor Run<br>4.026                 |                                                           |
| H<br>12199.5                                                                                                                     |                             | Taps<br>FIG                        |                                                           |
| Cg<br>0.582                                                                                                                      |                             | Prover<br>0                        |                                                           |
| % CO <sub>2</sub><br>1.44                                                                                                        |                             | % H <sub>2</sub> S<br>0            |                                                           |
| % N <sub>2</sub><br>0.28                                                                                                         |                             | Tape<br>4.026                      |                                                           |
| FLOW DATA                                                                                                                        |                             |                                    |                                                           |
| NO.                                                                                                                              | Prover Line Size            | X                                  | Orifice Size                                              |
| 51                                                                                                                               | 4.026                       |                                    | .750                                                      |
| 1.                                                                                                                               | 4.026                       |                                    | .750                                                      |
| 2.                                                                                                                               | 4.026                       |                                    | .750                                                      |
| 3.                                                                                                                               | 4.026                       |                                    | .750                                                      |
| 4.                                                                                                                               | 4.026                       |                                    | .750                                                      |
| 5.                                                                                                                               |                             |                                    |                                                           |
| RATE OF FLOW CALCULATIONS                                                                                                        |                             |                                    |                                                           |
| NO.                                                                                                                              | Coefficient (24 Hour)       | $\sqrt{h_w P_m}$                   | Pressure P <sub>m</sub>                                   |
| 1                                                                                                                                | 2.66                        | 42.37                              | 488.9                                                     |
| 2                                                                                                                                | 2.66                        | 64.70                              | 435.6                                                     |
| 3                                                                                                                                | 2.66                        | 98.09                              | 435.6                                                     |
| 4                                                                                                                                | 2.66                        | 111.66                             | 435.6                                                     |
| 5                                                                                                                                |                             |                                    |                                                           |
| NO.                                                                                                                              | P <sub>r</sub>              | Temp. °R                           | T <sub>r</sub>                                            |
| 1                                                                                                                                | 0.66                        | 517                                | 1.48                                                      |
| 2                                                                                                                                | 0.64                        | 534                                | 1.53                                                      |
| 3                                                                                                                                | 0.64                        | 538                                | 1.54                                                      |
| 4                                                                                                                                | 0.64                        | 534                                | 1.53                                                      |
| 5                                                                                                                                |                             |                                    |                                                           |
| Gas Liquid Hydrocarbon Ratio _____ 0 _____ Mcf/hbl.                                                                              |                             |                                    |                                                           |
| A.P.I. Gravity of Liquid Hydrocarbon _____ 0 _____ Deg.                                                                          |                             |                                    |                                                           |
| Specific Gravity Separator Gas _____ 0.582 _____ XXXXXXXXXX                                                                      |                             |                                    |                                                           |
| Specific Gravity Flowing Fluid _____ XXXXX _____ 0.582                                                                           |                             |                                    |                                                           |
| Critical Pressure _____ 679 _____ P.S.I.A. _____ 679 _____ P.S.I.A.                                                              |                             |                                    |                                                           |
| Critical Temperature _____ 350 _____ R _____ 350 _____ R                                                                         |                             |                                    |                                                           |
| P <sub>r</sub> 3831.7 P <sub>w</sub> 14682                                                                                       |                             |                                    |                                                           |
| NO.                                                                                                                              | P <sub>r</sub> <sup>2</sup> | P <sub>w</sub> <sup>2</sup>        | P <sub>r</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> |
| 1                                                                                                                                | 3559                        | 12669                              | 2013                                                      |
| 2                                                                                                                                | 3385                        | 11456                              | 3226                                                      |
| 3                                                                                                                                | 3091                        | 9554                               | 5127                                                      |
| 4                                                                                                                                | 2797                        | 7821                               | 6861                                                      |
| 5                                                                                                                                |                             |                                    |                                                           |
| (1) $\frac{P_r^2}{P_r^2 - P_w^2} = 2.8636$                                                                                       |                             |                                    |                                                           |
| (2) $\left[ \frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2.6435$                                                                      |                             |                                    |                                                           |
| AOI = Q $\left[ \frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 917$                                                                     |                             |                                    |                                                           |
| Post FD-2<br>12-26-86<br>comp. Morrow                                                                                            |                             |                                    |                                                           |
| Absolute Open Flow _____ 917 _____ Mcf @ 15.025                                                                                  |                             | Angle of Slope @ _____ 47.25 _____ |                                                           |
| Slope, n _____ 0.924 _____                                                                                                       |                             |                                    |                                                           |
| Remarks:                                                                                                                         |                             |                                    |                                                           |
| Approved By Commission:                                                                                                          |                             | Conducted By: Richard L. Cuthy     |                                                           |
|                                                                                                                                  |                             | Calculated By: Richard L. Cuthy    |                                                           |
|                                                                                                                                  |                             | Checked By:                        |                                                           |