

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

Form C-122  
Revised 9-1-65

C/Sr  
File ✓  
C-122 File  
Open

| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             | Test Date<br>8-21-80                        |                                        |                                                           |                                                                                                        |                                         |                      |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------|----------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------|------------------|----------|-------------|--|------------------|-----|------------------|---|--------------|-----------------|----------------------|----------|-----------------|----------|----|-------|---|-------|-----|---|----|------|----|-------|----|---|---|---|-----|----|----|-----|----|------|----|---|---|---|-----|----|----|-----|----|------|----|---|---|---|-----|----|----|-----|----|------|----|---|---|---|-----|--|----|-----|----|------|
| Company<br>Yates Petroleum Corp. ✓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                             | Connection<br>Transwestern Pipeline Company |                                        |                                                           |                                                                                                        |                                         |                      |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| Pool<br>Pecos Slope - Abo Gas<br><del>Undesignated Morrow</del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                             | Formation<br>Abo                            |                                        |                                                           |                                                                                                        |                                         |                      |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| Completion Date<br>4-25-80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                             | Total Depth<br>4276' KB                     | Plug Back TD<br>4135' KB               |                                                           |                                                                                                        |                                         |                      |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| Casing Size<br>5-1/2" 14#                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             | Set At<br>5.012                             | Elevation<br>3985' KB                  |                                                           |                                                                                                        |                                         |                      |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| Tubing Size<br>2-7/8" 6.5#                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                             | Set At<br>2.441                             | Perforations:<br>From 3630 To 3662' KB |                                                           |                                                                                                        |                                         |                      |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| Type Well - Single - Bradenhead - G.C. or G.O. Multiple<br>Single                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                             | Packer Set At<br>3592'                      | Unit<br>LG 563                         |                                                           |                                                                                                        |                                         |                      |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| Producing Thru<br>Tubing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                             | Reservoir Temp. °F<br>94 # 3646             | Mean Annual Temp. °F<br>62             |                                                           |                                                                                                        |                                         |                      |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| Baro. Press. - P <sub>a</sub><br>13.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                             | Form or Lease Name<br>Smernoff "NL" St      |                                        |                                                           |                                                                                                        |                                         |                      |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| Well No.<br>#1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             | Unit Sec. Twp. Rge.<br>B 2-T5S-R24E         |                                        |                                                           |                                                                                                        |                                         |                      |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| County<br>Chaves Co.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                             | State<br>New Mexico                         |                                        |                                                           |                                                                                                        |                                         |                      |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| Prover<br>2"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                             | Meter Run<br>Flanged                        |                                        |                                                           |                                                                                                        |                                         |                      |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="4">FLOW DATA</th> <th colspan="2">TUBING DATA</th> <th colspan="2">CASING DATA</th> <th rowspan="2">Duration of Flow</th> </tr> <tr> <th>NO.</th> <th>Prover Line Size</th> <th>X</th> <th>Orifice Size</th> <th>Press. p.s.i.g.</th> <th>Diff. h<sub>w</sub></th> <th>Temp. °F</th> <th>Press. p.s.i.g.</th> <th>Temp. °F</th> </tr> <tr> <td>1.</td> <td>2.067</td> <td>x</td> <td>1.000</td> <td>678</td> <td>7</td> <td>93</td> <td>1000</td> <td>74</td> <td>Weeks</td> </tr> <tr> <td>2.</td> <td>"</td> <td>"</td> <td>"</td> <td>679</td> <td>13</td> <td>93</td> <td>961</td> <td>82</td> <td>1 hr</td> </tr> <tr> <td>3.</td> <td>"</td> <td>"</td> <td>"</td> <td>680</td> <td>23</td> <td>93</td> <td>931</td> <td>86</td> <td>1 hr</td> </tr> <tr> <td>4.</td> <td>"</td> <td>"</td> <td>"</td> <td>680</td> <td>44</td> <td>93</td> <td>879</td> <td>89</td> <td>1 hr</td> </tr> <tr> <td>5.</td> <td>"</td> <td>"</td> <td>"</td> <td>680</td> <td></td> <td>93</td> <td>756</td> <td>91</td> <td>1 hr</td> </tr> </table> |                             |                                             |                                        | FLOW DATA                                                 |                                                                                                        |                                         |                      | TUBING DATA      |          | CASING DATA |  | Duration of Flow | NO. | Prover Line Size | X | Orifice Size | Press. p.s.i.g. | Diff. h <sub>w</sub> | Temp. °F | Press. p.s.i.g. | Temp. °F | 1. | 2.067 | x | 1.000 | 678 | 7 | 93 | 1000 | 74 | Weeks | 2. | " | " | " | 679 | 13 | 93 | 961 | 82 | 1 hr | 3. | " | " | " | 680 | 23 | 93 | 931 | 86 | 1 hr | 4. | " | " | " | 680 | 44 | 93 | 879 | 89 | 1 hr | 5. | " | " | " | 680 |  | 93 | 756 | 91 | 1 hr |
| FLOW DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |                                             |                                        | TUBING DATA                                               |                                                                                                        | CASING DATA                             |                      | Duration of Flow |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Prover Line Size            | X                                           | Orifice Size                           | Press. p.s.i.g.                                           | Diff. h <sub>w</sub>                                                                                   | Temp. °F                                | Press. p.s.i.g.      |                  | Temp. °F |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2.067                       | x                                           | 1.000                                  | 678                                                       | 7                                                                                                      | 93                                      | 1000                 | 74               | Weeks    |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | "                           | "                                           | "                                      | 679                                                       | 13                                                                                                     | 93                                      | 961                  | 82               | 1 hr     |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | "                           | "                                           | "                                      | 680                                                       | 23                                                                                                     | 93                                      | 931                  | 86               | 1 hr     |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | "                           | "                                           | "                                      | 680                                                       | 44                                                                                                     | 93                                      | 879                  | 89               | 1 hr     |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | "                           | "                                           | "                                      | 680                                                       |                                                                                                        | 93                                      | 756                  | 91               | 1 hr     |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| RATE OF FLOW CALCULATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |                                             |                                        |                                                           |                                                                                                        |                                         |                      |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Coefficient (24 Hour)       | $\sqrt{h_w P_m}$                            | Pressure P <sub>m</sub>                | Flow Temp. Factor Ft.                                     | Gravity Factor F <sub>g</sub>                                                                          | Super Compress. Factor, F <sub>pv</sub> | Rate of Flow Q, Mcfd |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4.946                       | 69.56                                       | 691.2                                  | .9697                                                     | 1.219                                                                                                  | 1.053                                   | 428                  |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4.946                       | 94.86                                       | 692.2                                  | .9697                                                     | 1.219                                                                                                  | 1.053                                   | 584                  |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4.946                       | 126.27                                      | 693.2                                  | .9697                                                     | 1.219                                                                                                  | 1.053                                   | 777                  |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4.946                       | 174.64                                      | 693.2                                  | .9697                                                     | 1.219                                                                                                  | 1.053                                   | 1075                 |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                             |                                             |                                        |                                                           |                                                                                                        |                                         |                      |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| 10.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | P <sub>i</sub>              | Temp. °R                                    | T <sub>i</sub>                         | Z                                                         | Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.                                                            |                                         |                      |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1.029                       | 553                                         | 1.515                                  | .902                                                      | A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.                                                       |                                         |                      |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1.030                       | 553                                         | 1.515                                  | .902                                                      | Specific Gravity Separator Gas _____ 0.677                                                             |                                         |                      |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1.031                       | 553                                         | 1.515                                  | .902                                                      | Specific Gravity Flowing Fluid _____ X X X X X X X X                                                   |                                         |                      |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1.032                       | 553                                         | 1.515                                  | .902                                                      | Critical Pressure _____ 672 P.S.I.A. _____ 839 P.S.I.A.                                                |                                         |                      |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                             |                                             |                                        |                                                           | Critical Temperature _____ 365 R _____ 426 R                                                           |                                         |                      |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| 1130.2 P <sub>i</sub> <sup>2</sup> 1277                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                             |                                             |                                        |                                                           |                                                                                                        |                                         |                      |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| 01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | P <sub>i</sub> <sup>2</sup> | P <sub>w</sub>                              | P <sub>w</sub> <sup>2</sup>            | P <sub>i</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> | (1) $\frac{P_i^2}{P_i^2 - P_w^2} = 2.3218$ (2) $\left[ \frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 1.5676$ |                                         |                      |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                             |                                             | 1176                                   | 101                                                       |                                                                                                        |                                         |                      |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                             |                                             | 1101                                   | 176                                                       |                                                                                                        |                                         |                      |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                             |                                             | 981                                    | 296                                                       |                                                                                                        |                                         |                      |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                             |                                             | 727                                    | 550                                                       | ACF = Q $\left[ \frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 1685$                                          |                                         |                      |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| Absolute Open Flow _____ 1685 Mcfd @ 15.025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                             |                                             |                                        |                                                           | Angle of Slope _____ 61.9 degree                                                                       |                                         |                      |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| Slope, n _____ 0.5337                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                             |                                             |                                        |                                                           |                                                                                                        |                                         |                      |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| Remarks: Static pressures by Bennett Wireline, flowing pressures by DWT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                             |                                             |                                        |                                                           |                                                                                                        |                                         |                      |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| Calculations worksheet C-122D attached.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                             |                                             |                                        |                                                           |                                                                                                        |                                         |                      |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
| Approved By Consultant:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                             | Conducted By:                               |                                        | Calculated By:                                            |                                                                                                        | Checked By:                             |                      |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                             | Don Weaver                                  |                                        | Eddie Mahfood                                             |                                                                                                        |                                         |                      |                  |          |             |  |                  |     |                  |   |              |                 |                      |          |                 |          |    |       |   |       |     |   |    |      |    |       |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |    |    |     |    |      |    |   |   |   |     |  |    |     |    |      |