

30-015-37508

# Production Profile Interpretation Report

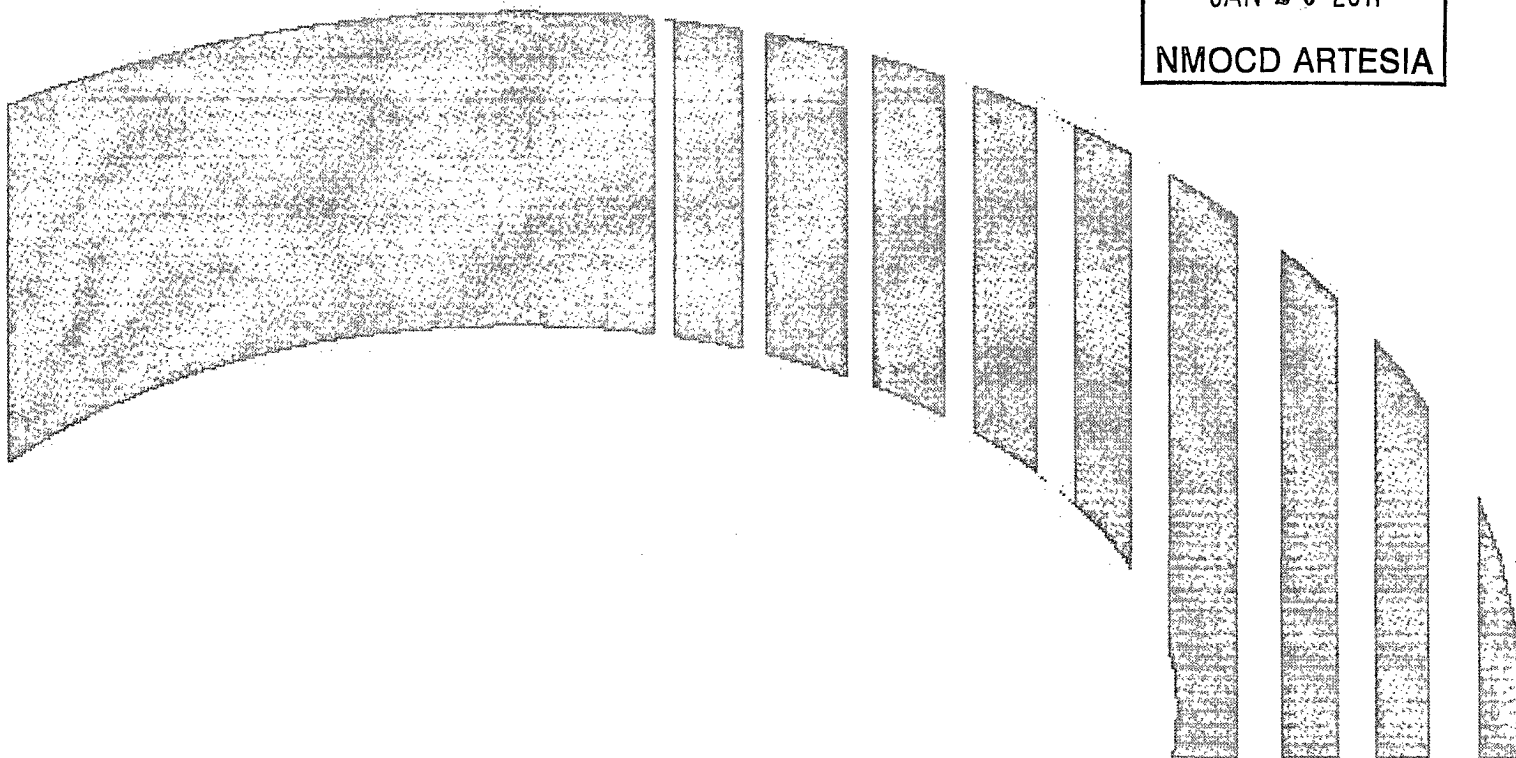
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**Company:** Cimarex Energy Co. Colorado  
**Field:** Wildcat  
**Well:** Cypher 36 State Com #1  
**Survey Date:** 12-06-2010  
**Service Company:** Techwell Surveys Corporation  
**Interpretation Date:** 12-13-2010  
**Analyst:** JD Taylor  
Survey #1

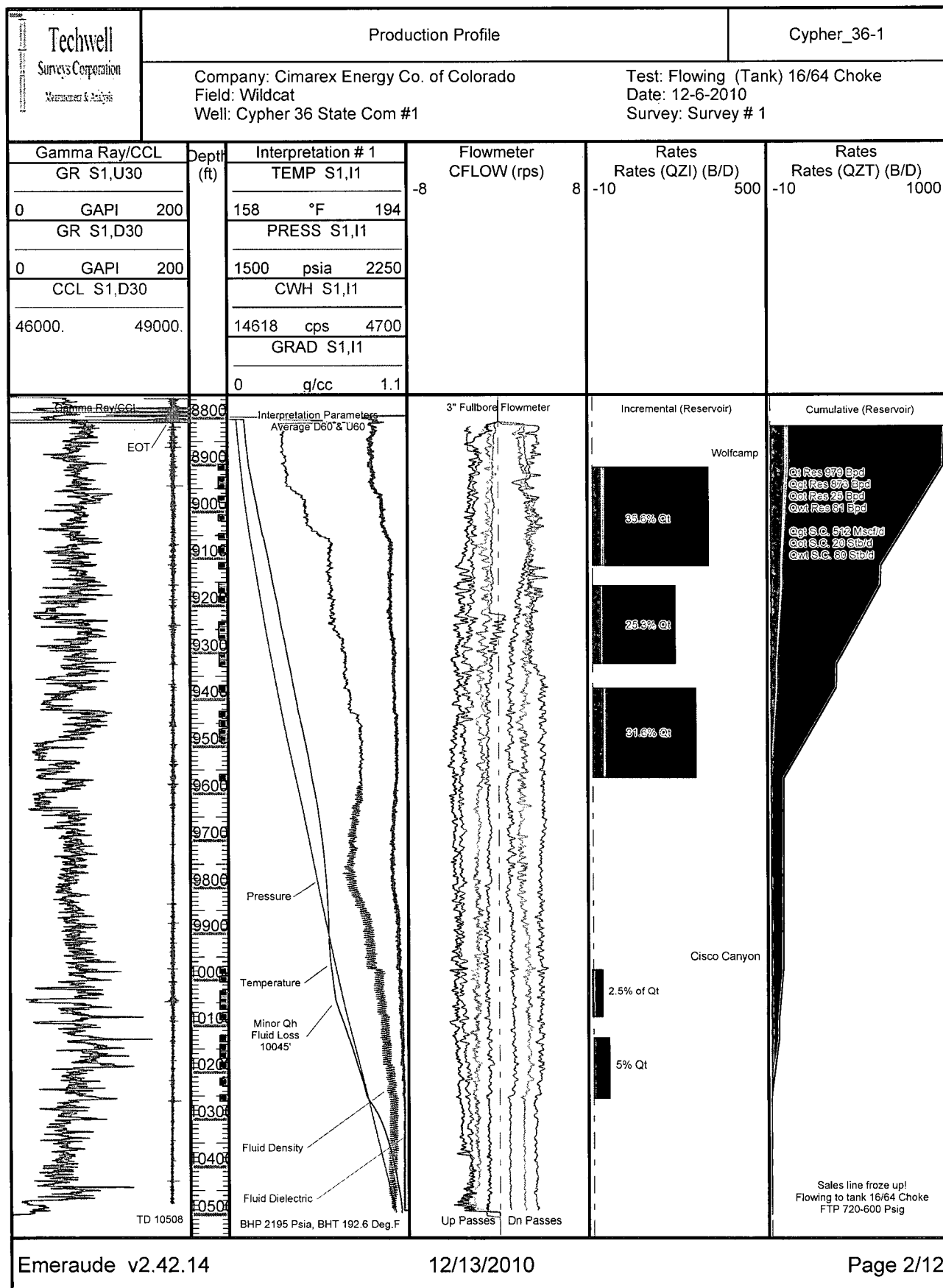
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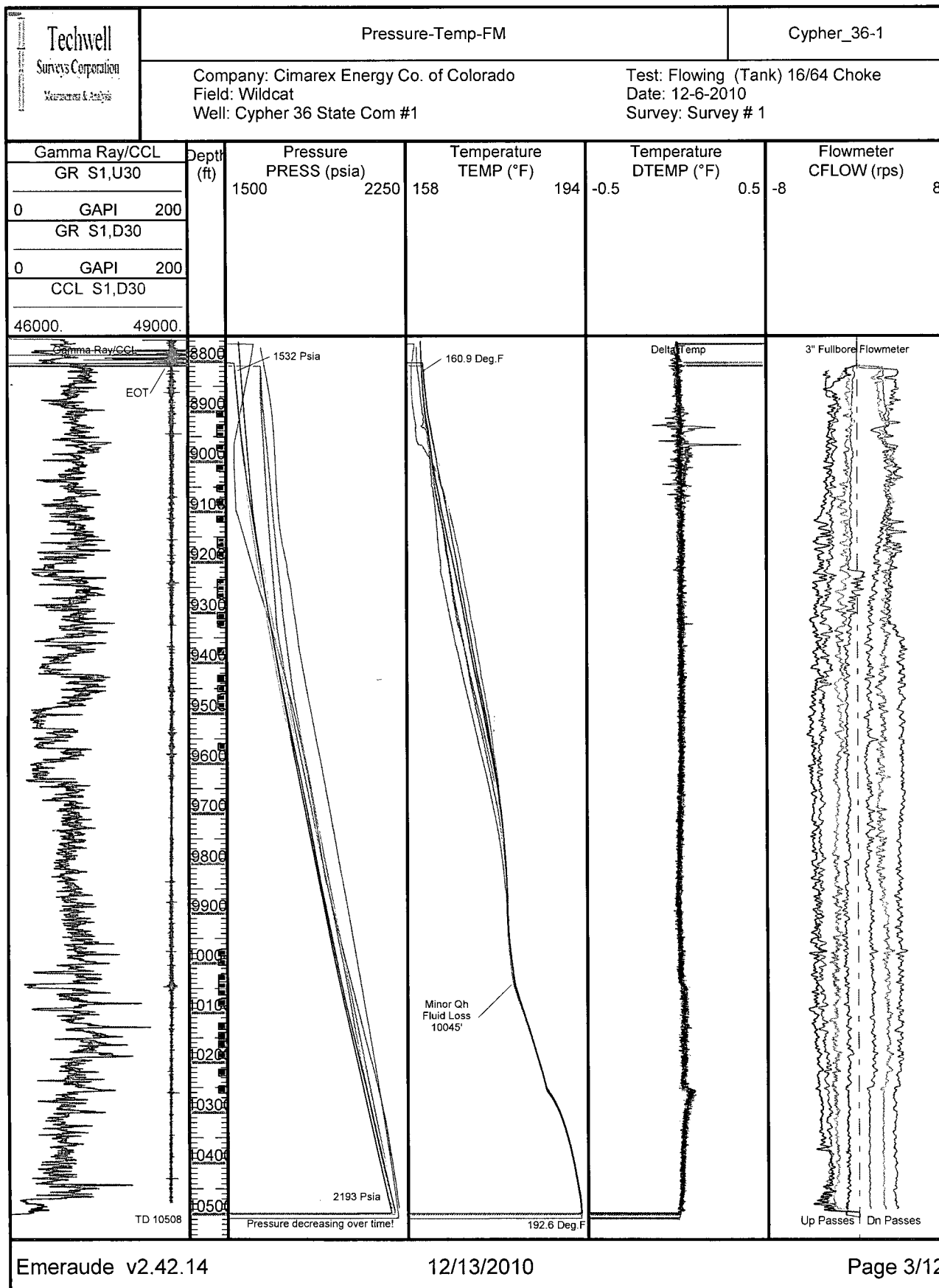
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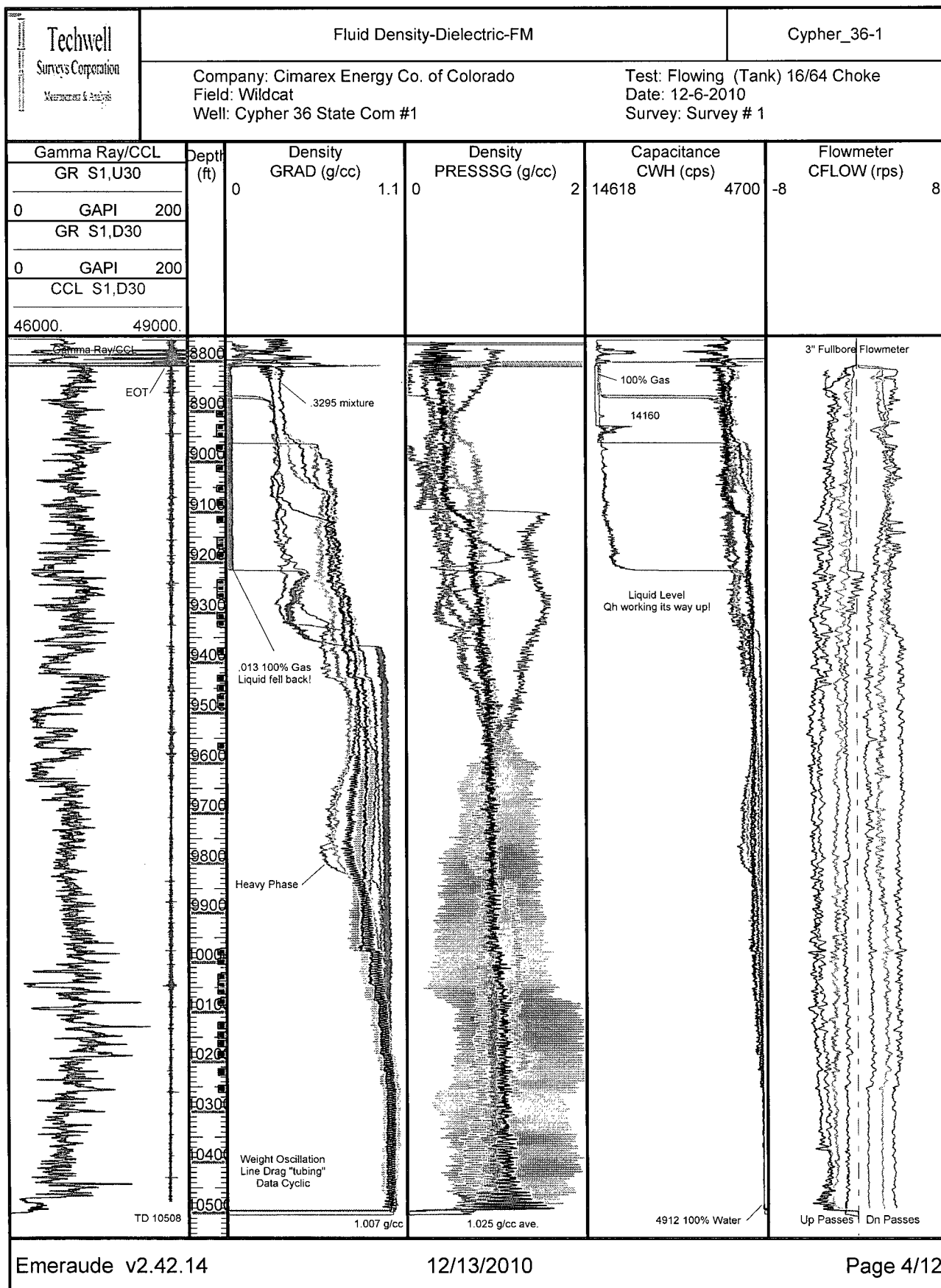
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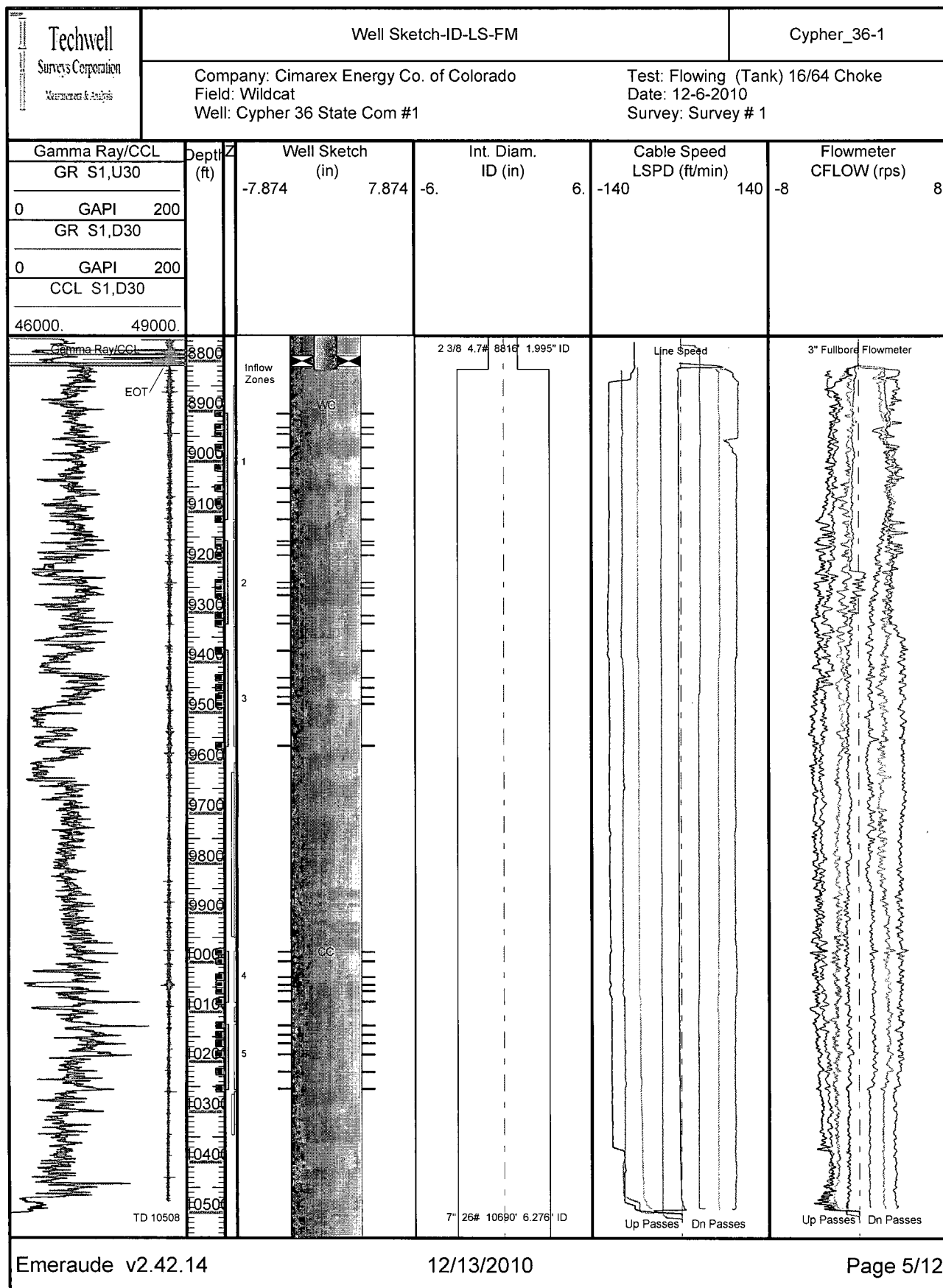


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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Job Information                                                                           |                     | Cypher_36-1                                                               |                |                    |                |                     |                    |                 |                              |            |                    |                                                                                                                                                                                                                                                            |                |                   |         |           |               |                       |  |               |            |          |            |     |          |           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |       |  |  |  |             |          |             |  |                    |       |             |                   |         |           |               |                       |  |  |            |          |  |  |         |           |                                                                                                                                                                                                     |  |  |  |                |                    |                |        |                    |       |                                                                                                                                                                                                                                                                                                                                                |  |  |  |           |             |                |        |                |                |            |        |             |        |                |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Company: Cimarex Energy Co. of Colorado<br>Field: Wildcat<br>Well: Cypher 36 State Com #1 |                     | Test: Flowing (Tank) 16/64 Choke<br>Date: 12-6-2010<br>Survey: Survey # 1 |                |                    |                |                     |                    |                 |                              |            |                    |                                                                                                                                                                                                                                                            |                |                   |         |           |               |                       |  |               |            |          |            |     |          |           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |       |  |  |  |             |          |             |  |                    |       |             |                   |         |           |               |                       |  |  |            |          |  |  |         |           |                                                                                                                                                                                                     |  |  |  |                |                    |                |        |                    |       |                                                                                                                                                                                                                                                                                                                                                |  |  |  |           |             |                |        |                |                |            |        |             |        |                |        |
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| Service company                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Techwell Surveys Corporation                                                              | Done by             | JD Taylor                                                                 |                |                    |                |                     |                    |                 |                              |            |                    |                                                                                                                                                                                                                                                            |                |                   |         |           |               |                       |  |               |            |          |            |     |          |           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |       |  |  |  |             |          |             |  |                    |       |             |                   |         |           |               |                       |  |  |            |          |  |  |         |           |                                                                                                                                                                                                     |  |  |  |                |                    |                |        |                    |       |                                                                                                                                                                                                                                                                                                                                                |  |  |  |           |             |                |        |                |                |            |        |             |        |                |        |
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| SURVEY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                           | Survey # 1          |                                                                           |                |                    |                |                     |                    |                 |                              |            |                    |                                                                                                                                                                                                                                                            |                |                   |         |           |               |                       |  |               |            |          |            |     |          |           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |       |  |  |  |             |          |             |  |                    |       |             |                   |         |           |               |                       |  |  |            |          |  |  |         |           |                                                                                                                                                                                                     |  |  |  |                |                    |                |        |                    |       |                                                                                                                                                                                                                                                                                                                                                |  |  |  |           |             |                |        |                |                |            |        |             |        |                |        |
| Surface rates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                           | Gas                 | 512 Mscf/D                                                                |                |                    |                |                     |                    |                 |                              |            |                    |                                                                                                                                                                                                                                                            |                |                   |         |           |               |                       |  |               |            |          |            |     |          |           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |       |  |  |  |             |          |             |  |                    |       |             |                   |         |           |               |                       |  |  |            |          |  |  |         |           |                                                                                                                                                                                                     |  |  |  |                |                    |                |        |                    |       |                                                                                                                                                                                                                                                                                                                                                |  |  |  |           |             |                |        |                |                |            |        |             |        |                |        |
| Oil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 20 STB/D                                                                                  | Water               | 80 STB/D                                                                  |                |                    |                |                     |                    |                 |                              |            |                    |                                                                                                                                                                                                                                                            |                |                   |         |           |               |                       |  |               |            |          |            |     |          |           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |       |  |  |  |             |          |             |  |                    |       |             |                   |         |           |               |                       |  |  |            |          |  |  |         |           |                                                                                                                                                                                                     |  |  |  |                |                    |                |        |                    |       |                                                                                                                                                                                                                                                                                                                                                |  |  |  |           |             |                |        |                |                |            |        |             |        |                |        |
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| TOOLS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                           |                     |                                                                           |                |                    |                |                     |                    |                 |                              |            |                    |                                                                                                                                                                                                                                                            |                |                   |         |           |               |                       |  |               |            |          |            |     |          |           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |       |  |  |  |             |          |             |  |                    |       |             |                   |         |           |               |                       |  |  |            |          |  |  |         |           |                                                                                                                                                                                                     |  |  |  |                |                    |                |        |                    |       |                                                                                                                                                                                                                                                                                                                                                |  |  |  |           |             |                |        |                |                |            |        |             |        |                |        |
| String O.D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1.375 in                                                                                  | Capacitance         |                                                                           |                |                    |                |                     |                    |                 |                              |            |                    |                                                                                                                                                                                                                                                            |                |                   |         |           |               |                       |  |               |            |          |            |     |          |           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |       |  |  |  |             |          |             |  |                    |       |             |                   |         |           |               |                       |  |  |            |          |  |  |         |           |                                                                                                                                                                                                     |  |  |  |                |                    |                |        |                    |       |                                                                                                                                                                                                                                                                                                                                                |  |  |  |           |             |                |        |                |                |            |        |             |        |                |        |
| Spinner blade O.D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3. in                                                                                     | Calib. type         | Yw vs norm. resp.                                                         |                |                    |                |                     |                    |                 |                              |            |                    |                                                                                                                                                                                                                                                            |                |                   |         |           |               |                       |  |               |            |          |            |     |          |           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |       |  |  |  |             |          |             |  |                    |       |             |                   |         |           |               |                       |  |  |            |          |  |  |         |           |                                                                                                                                                                                                     |  |  |  |                |                    |                |        |                    |       |                                                                                                                                                                                                                                                                                                                                                |  |  |  |           |             |                |        |                |                |            |        |             |        |                |        |
| Density                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Corrected                                                                                 | Default chart       | CWH Water-Hydrocarbon                                                     |                |                    |                |                     |                    |                 |                              |            |                    |                                                                                                                                                                                                                                                            |                |                   |         |           |               |                       |  |               |            |          |            |     |          |           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |       |  |  |  |             |          |             |  |                    |       |             |                   |         |           |               |                       |  |  |            |          |  |  |         |           |                                                                                                                                                                                                     |  |  |  |                |                    |                |        |                    |       |                                                                                                                                                                                                                                                                                                                                                |  |  |  |           |             |                |        |                |                |            |        |             |        |                |        |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                           | 100% HC             | 14618 cps                                                                 |                |                    |                |                     |                    |                 |                              |            |                    |                                                                                                                                                                                                                                                            |                |                   |         |           |               |                       |  |               |            |          |            |     |          |           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |       |  |  |  |             |          |             |  |                    |       |             |                   |         |           |               |                       |  |  |            |          |  |  |         |           |                                                                                                                                                                                                     |  |  |  |                |                    |                |        |                    |       |                                                                                                                                                                                                                                                                                                                                                |  |  |  |           |             |                |        |                |                |            |        |             |        |                |        |
| <table border="0"> <tr> <td>INTERPRETATION</td> <td>Interpretation # 1</td> </tr> <tr> <td>Density offset</td> <td>0 g/cc</td> </tr> <tr> <td>Capacitance offset</td> <td>0 cps</td> </tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                           |                     |                                                                           | INTERPRETATION | Interpretation # 1 | Density offset | 0 g/cc              | Capacitance offset | 0 cps           |                              |            |                    |                                                                                                                                                                                                                                                            |                |                   |         |           |               |                       |  |               |            |          |            |     |          |           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |       |  |  |  |             |          |             |  |                    |       |             |                   |         |           |               |                       |  |  |            |          |  |  |         |           |                                                                                                                                                                                                     |  |  |  |                |                    |                |        |                    |       |                                                                                                                                                                                                                                                                                                                                                |  |  |  |           |             |                |        |                |                |            |        |             |        |                |        |
| INTERPRETATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Interpretation # 1                                                                        |                     |                                                                           |                |                    |                |                     |                    |                 |                              |            |                    |                                                                                                                                                                                                                                                            |                |                   |         |           |               |                       |  |               |            |          |            |     |          |           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |       |  |  |  |             |          |             |  |                    |       |             |                   |         |           |               |                       |  |  |            |          |  |  |         |           |                                                                                                                                                                                                     |  |  |  |                |                    |                |        |                    |       |                                                                                                                                                                                                                                                                                                                                                |  |  |  |           |             |                |        |                |                |            |        |             |        |                |        |
| Density offset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0 g/cc                                                                                    |                     |                                                                           |                |                    |                |                     |                    |                 |                              |            |                    |                                                                                                                                                                                                                                                            |                |                   |         |           |               |                       |  |               |            |          |            |     |          |           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |       |  |  |  |             |          |             |  |                    |       |             |                   |         |           |               |                       |  |  |            |          |  |  |         |           |                                                                                                                                                                                                     |  |  |  |                |                    |                |        |                    |       |                                                                                                                                                                                                                                                                                                                                                |  |  |  |           |             |                |        |                |                |            |        |             |        |                |        |
| Capacitance offset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0 cps                                                                                     |                     |                                                                           |                |                    |                |                     |                    |                 |                              |            |                    |                                                                                                                                                                                                                                                            |                |                   |         |           |               |                       |  |               |            |          |            |     |          |           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |       |  |  |  |             |          |             |  |                    |       |             |                   |         |           |               |                       |  |  |            |          |  |  |         |           |                                                                                                                                                                                                     |  |  |  |                |                    |                |        |                    |       |                                                                                                                                                                                                                                                                                                                                                |  |  |  |           |             |                |        |                |                |            |        |             |        |                |        |
| <table border="0"> <tr> <td>Flow type</td> <td>3-Phase L-G</td> </tr> <tr> <td>Flow model L-G</td> <td>Dukler</td> </tr> <tr> <td>Flow model W-O</td> <td>ABB - Deviated</td> </tr> <tr> <td>Vpcf mult.</td> <td>0.9486</td> </tr> <tr> <td>Vslip mult.</td> <td>0.5205</td> </tr> <tr> <td>Vslip mult.W-O</td> <td>0.9776</td> </tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                           |                     |                                                                           | Flow type      | 3-Phase L-G        | Flow model L-G | Dukler              | Flow model W-O     | ABB - Deviated  | Vpcf mult.                   | 0.9486     | Vslip mult.        | 0.5205                                                                                                                                                                                                                                                     | Vslip mult.W-O | 0.9776            |         |           |               |                       |  |               |            |          |            |     |          |           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |       |  |  |  |             |          |             |  |                    |       |             |                   |         |           |               |                       |  |  |            |          |  |  |         |           |                                                                                                                                                                                                     |  |  |  |                |                    |                |        |                    |       |                                                                                                                                                                                                                                                                                                                                                |  |  |  |           |             |                |        |                |                |            |        |             |        |                |        |
| Flow type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3-Phase L-G                                                                               |                     |                                                                           |                |                    |                |                     |                    |                 |                              |            |                    |                                                                                                                                                                                                                                                            |                |                   |         |           |               |                       |  |               |            |          |            |     |          |           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |       |  |  |  |             |          |             |  |                    |       |             |                   |         |           |               |                       |  |  |            |          |  |  |         |           |                                                                                                                                                                                                     |  |  |  |                |                    |                |        |                    |       |                                                                                                                                                                                                                                                                                                                                                |  |  |  |           |             |                |        |                |                |            |        |             |        |                |        |
| Flow model L-G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Dukler                                                                                    |                     |                                                                           |                |                    |                |                     |                    |                 |                              |            |                    |                                                                                                                                                                                                                                                            |                |                   |         |           |               |                       |  |               |            |          |            |     |          |           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |       |  |  |  |             |          |             |  |                    |       |             |                   |         |           |               |                       |  |  |            |          |  |  |         |           |                                                                                                                                                                                                     |  |  |  |                |                    |                |        |                    |       |                                                                                                                                                                                                                                                                                                                                                |  |  |  |           |             |                |        |                |                |            |        |             |        |                |        |
| Flow model W-O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ABB - Deviated                                                                            |                     |                                                                           |                |                    |                |                     |                    |                 |                              |            |                    |                                                                                                                                                                                                                                                            |                |                   |         |           |               |                       |  |               |            |          |            |     |          |           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |       |  |  |  |             |          |             |  |                    |       |             |                   |         |           |               |                       |  |  |            |          |  |  |         |           |                                                                                                                                                                                                     |  |  |  |                |                    |                |        |                    |       |                                                                                                                                                                                                                                                                                                                                                |  |  |  |           |             |                |        |                |                |            |        |             |        |                |        |
| Vpcf mult.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.9486                                                                                    |                     |                                                                           |                |                    |                |                     |                    |                 |                              |            |                    |                                                                                                                                                                                                                                                            |                |                   |         |           |               |                       |  |               |            |          |            |     |          |           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |       |  |  |  |             |          |             |  |                    |       |             |                   |         |           |               |                       |  |  |            |          |  |  |         |           |                                                                                                                                                                                                     |  |  |  |                |                    |                |        |                    |       |                                                                                                                                                                                                                                                                                                                                                |  |  |  |           |             |                |        |                |                |            |        |             |        |                |        |
| Vslip mult.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.5205                                                                                    |                     |                                                                           |                |                    |                |                     |                    |                 |                              |            |                    |                                                                                                                                                                                                                                                            |                |                   |         |           |               |                       |  |               |            |          |            |     |          |           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |       |  |  |  |             |          |             |  |                    |       |             |                   |         |           |               |                       |  |  |            |          |  |  |         |           |                                                                                                                                                                                                     |  |  |  |                |                    |                |        |                    |       |                                                                                                                                                                                                                                                                                                                                                |  |  |  |           |             |                |        |                |                |            |        |             |        |                |        |
| Vslip mult.W-O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.9776                                                                                    |                     |                                                                           |                |                    |                |                     |                    |                 |                              |            |                    |                                                                                                                                                                                                                                                            |                |                   |         |           |               |                       |  |               |            |          |            |     |          |           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |       |  |  |  |             |          |             |  |                    |       |             |                   |         |           |               |                       |  |  |            |          |  |  |         |           |                                                                                                                                                                                                     |  |  |  |                |                    |                |        |                    |       |                                                                                                                                                                                                                                                                                                                                                |  |  |  |           |             |                |        |                |                |            |        |             |        |                |        |
| <p>Comments</p> <p>Well offline upon arrival to location, sales line froze up, hi-lo valve tripped, called in report. Upon arrival, pumper switched well to tank while trying to clear line to stabilize well for survey. Switched well back to sales line, attempted survey, fluid falling back, line froze again. Switched back to tank, adjusted choke to maintain 600 psi ftp (approx. 16/64), flowing to sales on a 27/64. Recorded multiple passes to obtain survey, excessive weight changes were evident in the up passes indicating too much weight on packer. Cyclic pattern observed in data, increased flowmeter filtering to smooth out. 92.5% of the production sourced from the Wolfcamp with only 7.5% from the Cisco Canyon, minor water loss indicated at 10045', not enough gas production from the CC to effectively lift water under these conditions. Depth corrected to Halliburton CBL dated 5-13-2010 (+5').</p> <p>Cypher 36 State Com #1 API # 30-015-37508<br/>         660' FNL &amp; 660' FEL of Sec. 36, Twp 25S, Rge, 25E<br/>         Eddy Co., New Mexico</p> <p>JD Taylor Techwell Surveys Corporation 432-664-4978.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                           |                     |                                                                           |                |                    |                |                     |                    |                 |                              |            |                    |                                                                                                                                                                                                                                                            |                |                   |         |           |               |                       |  |               |            |          |            |     |          |           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |       |  |  |  |             |          |             |  |                    |       |             |                   |         |           |               |                       |  |  |            |          |  |  |         |           |                                                                                                                                                                                                     |  |  |  |                |                    |                |        |                    |       |                                                                                                                                                                                                                                                                                                                                                |  |  |  |           |             |                |        |                |                |            |        |             |        |                |        |
| Emeraude v2.42.14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                           | 12/13/2010          |                                                                           | Page 1/12      |                    |                |                     |                    |                 |                              |            |                    |                                                                                                                                                                                                                                                            |                |                   |         |           |               |                       |  |               |            |          |            |     |          |           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |       |  |  |  |             |          |             |  |                    |       |             |                   |         |           |               |                       |  |  |            |          |  |  |         |           |                                                                                                                                                                                                     |  |  |  |                |                    |                |        |                    |       |                                                                                                                                                                                                                                                                                                                                                |  |  |  |           |             |                |        |                |                |            |        |             |        |                |        |









|                                                                                          |                                                                                           |  |                                                                           |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------|
| <div>Techwell</div> <div>Surveys Corporation</div> <div>Measurement &amp; Analysis</div> | Zone Contributions; S.C.                                                                  |  | Cypher_36-1                                                               |
|                                                                                          | Company: Cimarex Energy Co. of Colorado<br>Field: Wildcat<br>Well: Cypher 36 State Com #1 |  | Test: Flowing (Tank) 16/64 Choke<br>Date: 12-6-2010<br>Survey: Survey # 1 |

| Zones<br>ft     | Water<br>STB/D | Oil<br>STB/D | Gas<br>Mscf/D |
|-----------------|----------------|--------------|---------------|
| 8904.0-9116.0   | 24.67          | 8.63         | 174.84        |
| 9157.0-9324.0   | 24.56          | 3.67         | 125.69        |
| 9375.0-9568.0   | 30.58          | 5.96         | 162.71        |
| 9977.0-10081.0  | -4.20          | 0.11         | 18.70         |
| 10125.0-10256.0 | 4.20           | 1.49         | 29.98         |
| Total           | 79.80          | 19.84        | 511.92        |

Emeraude v2.42.14

12/13/2010

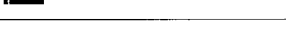
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Company: Cimarex Energy Co. of Colorado  
Field: Wildcat  
Well: Cypher 36 State Com #1

Test: Flowing (Tank) 16/64 Choke  
Date: 12-6-2010  
Survey: Survey # 1

| Zones<br>ft     | Qt res.<br>B/D | Production<br>% |
|-----------------|----------------|-----------------|
| 8904.0-9116.0   | 332.97         | 35.55           |
| 9157.0-9324.0   | 237.39         | 25.35           |
| 9375.0-9568.0   | 296.17         | 31.62           |
| 9977.0-10081.0  | 23.49          | 2.51            |
| 10125.0-10256.0 | 46.56          | 4.97            |

Contributions by phase

| Zones<br>ft     | Qw res.<br>B/D | Qo res.<br>B/D | Qg res.<br>B/D |  W  O  G |
|-----------------|----------------|----------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8904.0-9116.0   | 25.11          | 10.91          | 296.95         |                                                                                                                                                                              |
| 9157.0-9324.0   | 25.03          | 4.67           | 207.69         |                                                                                                                                                                              |
| 9375.0-9568.0   | 31.20          | 7.72           | 257.25         |                                                                                                                                                                              |
| 9977.0-10081.0  | -4.30          | 0.14           | 27.64          |                                                                                                                                                                              |
| 10125.0-10256.0 | 4.30           | 1.96           | 40.30          |                                                                                                                                                                              |

Company: Cimarex Energy Co. of Colorado  
Field: Wildcat  
Well: Cypher 36 State Com #1

Test: Flowing (Tank) 16/64 Choke  
Date: 12-6-2010  
Survey: Survey # 1

| Zone<br>ft      | Corr. factor | Vm<br>ft/min | Q downhole<br>B/D | Contribution<br>% |
|-----------------|--------------|--------------|-------------------|-------------------|
| 8904.0-9116.0   | 0.80         | 17.769       | 979.06            | 35.55             |
| 9157.0-9324.0   | 0.79         | 11.358       | 625.80            | 25.35             |
| 9375.0-9568.0   | 0.78         | 6.813        | 375.40            | 31.62             |
| 9977.0-10081.0  | 0.59         | 1.321        | 72.80             | 2.51              |
| 10125.0-10256.0 | 0.59         | 0.845        | 46.56             | 4.97              |

Total rates by phase

| Zone<br>ft      | Qw res.<br>B/D | Qw s.c.<br>STB/D | Qo res.<br>B/D | Qo s.c.<br>STB/D | Qg res.<br>B/D | Qg s.c.<br>Mscf/D |
|-----------------|----------------|------------------|----------------|------------------|----------------|-------------------|
| 8904.0-9116.0   | 81.24          | 79.80            | 25.21          | 19.84            | 872.61         | 511.92            |
| 9157.0-9324.0   | 56.20          | 55.13            | 14.40          | 11.22            | 555.20         | 337.08            |
| 9375.0-9568.0   | 31.20          | 30.58            | 9.80           | 7.55             | 334.40         | 211.39            |
| 9977.0-10081.0  | 0.00           | 0.00             | 2.10           | 1.59             | 70.70          | 48.68             |
| 10125.0-10256.0 | 4.30           | 4.20             | 1.96           | 1.49             | 40.30          | 29.98             |

Company: Cimarex Energy Co. of Colorado  
Field: Wildcat  
Well: Cypher 36 State Com #1

Test: Flowing (Tank) 16/64 Choke  
Date: 12-6-2010  
Survey: Survey # 1

| # | From-To<br>ft | ID<br>in | Deviation<br>° | Rt       | T<br>°F  | P<br>psia |
|---|---------------|----------|----------------|----------|----------|-----------|
| 1 | 8850.0-8900.0 | 6.2800   | 0.0000         | 2.868E-4 | 162.0000 | 1543.7000 |
| 2 | 9120.0-9153.0 | 6.2800   | 0.0000         | 2.868E-4 | 167.0000 | 1615.2000 |
| 3 | 9328.0-9370.0 | 6.2800   | 0.0000         | 2.868E-4 | 171.0000 | 1690.1000 |
| 4 | 9600.0-9950.0 | 6.2800   | 0.0000         | 2.868E-4 | 177.0000 | 1863.4000 |

| # | Bw     | Muw<br>cp | Rhow<br>g/cc | Bo     | Muo<br>cp | Rhoo<br>g/cc | Bg     | Mug<br>cp | Rhog<br>g/cc |
|---|--------|-----------|--------------|--------|-----------|--------------|--------|-----------|--------------|
| 1 | 1.0180 | 0.4359    | 1.0000       | 1.2704 | 0.4618    | 0.6900       | 0.0098 | 0.0154    | 0.0878       |
| 2 | 1.0194 | 0.4188    | 1.0000       | 1.2839 | 0.4395    | 0.6800       | 0.0094 | 0.0156    | 0.0910       |
| 3 | 1.0204 | 0.4055    | 1.0000       | 1.2980 | 0.4207    | 0.6800       | 0.0091 | 0.0159    | 0.0946       |
| 4 | 1.0222 | 0.3849    | 0.9900       | 1.3199 | 0.3949    | 0.6700       | 0.0083 | 0.0164    | 0.1000       |

| # | Correl. | Correl. W-O    | Regime | Slip<br>ft/min | Slip W-O<br>ft/min |
|---|---------|----------------|--------|----------------|--------------------|
| 1 | Dukler  | ABB - Deviated | Bubble | 26.563         | 19.861             |
| 2 | Dukler  | ABB - Deviated | Bubble | 29.522         | 19.975             |
| 3 | Dukler  | ABB - Deviated | Bubble | 30.619         | 20.092             |
| 4 | Dukler  | ABB - Deviated | Bubble | 31.191         | N/A                |

| # | Yw     | Yo     | Yg     | Vw<br>ft/min | Vo<br>ft/min | Vg<br>ft/min |
|---|--------|--------|--------|--------------|--------------|--------------|
| 1 | 0.4700 | 0.0103 | 0.5200 | 3.1300       | 44.3000      | 30.6000      |
| 2 | 0.6700 | 0.0085 | 0.3200 | 1.5200       | 30.9000      | 31.4000      |
| 3 | 0.8000 | 0.0070 | 0.1900 | 0.7100       | 25.6000      | 31.5000      |
| 4 | 0.0000 | 0.9600 | 0.0411 | 0.0000       | 0.0397       | 31.2000      |

|                                                                                                   |                                                                                           |  |  |  |  |                                                                           |  |
|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--|--|--|--|---------------------------------------------------------------------------|--|
| <div><div>Techwell</div><div>Surveys Corporation</div><div>Measurement &amp; Analysis</div></div> | Rates @ Calculation Zones: Detailed Results                                               |  |  |  |  | Cypher_36-1                                                               |  |
|                                                                                                   | Company: Cimarex Energy Co. of Colorado<br>Field: Wildcat<br>Well: Cypher 36 State Com #1 |  |  |  |  | Test: Flowing (Tank) 16/64 Choke<br>Date: 12-6-2010<br>Survey: Survey # 1 |  |

| # | From-To<br>ft   | ID<br>in | Deviation<br>° | Rt       | T<br>°F  | P<br>psia |
|---|-----------------|----------|----------------|----------|----------|-----------|
| 5 | 10090.0-10120.0 | 6.2800   | 0.0000         | 2.868E-4 | 181.0000 | 2004.3000 |
| 6 | 10260.0-10325.0 | 6.2800   | 0.0000         | 2.868E-4 | 188.0000 | 2096.4000 |

| # | Bw     | Muw<br>cp | Rhow<br>g/cc | Bo     | Muo<br>cp | Rhoo<br>g/cc | Bg     | Mug<br>cp | Rhog<br>g/cc |
|---|--------|-----------|--------------|--------|-----------|--------------|--------|-----------|--------------|
| 5 | 1.0232 | 0.3728    | 0.9900       | 1.3194 | 0.3908    | 0.6700       | 0.0078 | 0.0169    | 0.1100       |
| 6 | 1.0252 | 0.3552    | 0.9900       | 1.3221 | 0.3804    | 0.6700       | 0.0076 | 0.0172    | 0.1100       |

| # | Correl. | Correl. W-O    | Regime  | Slip<br>ft/min | Slip W-O<br>ft/min |
|---|---------|----------------|---------|----------------|--------------------|
| 5 | Dukler  | ABB - Deviated | Bubble  | 31.210         | 20.234             |
| 6 | Dukler  | ABB - Deviated | No flow | 0.000          | N/A                |

| # | Yw     | Yo     | Yg     | Vw<br>ft/min | Vo<br>ft/min | Vg<br>ft/min |
|---|--------|--------|--------|--------------|--------------|--------------|
| 5 | 0.9700 | 0.0017 | 0.0233 | 0.0800       | 20.8000      | 31.3000      |
| 6 | 1.0000 | 0.0000 | 0.0000 | 0.0000       | 0.0000       | 0.0000       |

|                   |  |  |            |  |            |  |
|-------------------|--|--|------------|--|------------|--|
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|-------------------|--|--|------------|--|------------|--|

Company: Cimarex Energy Co. of Colorado  
 Field: Wildcat  
 Well: Cypher 36 State Com #1

Test: Flowing (Tank) 16/64 Choke  
 Date: 12-6-2010  
 Survey: Survey # 1

FLUID TYPE Water - Oil+Gas

**GAS**

Specific gravity 0.7  
 N2 % 0  
 CO2 % 0  
 H2S % 0  
 Z Beggs and Brill  
 Mug Lee et al.

**OIL**

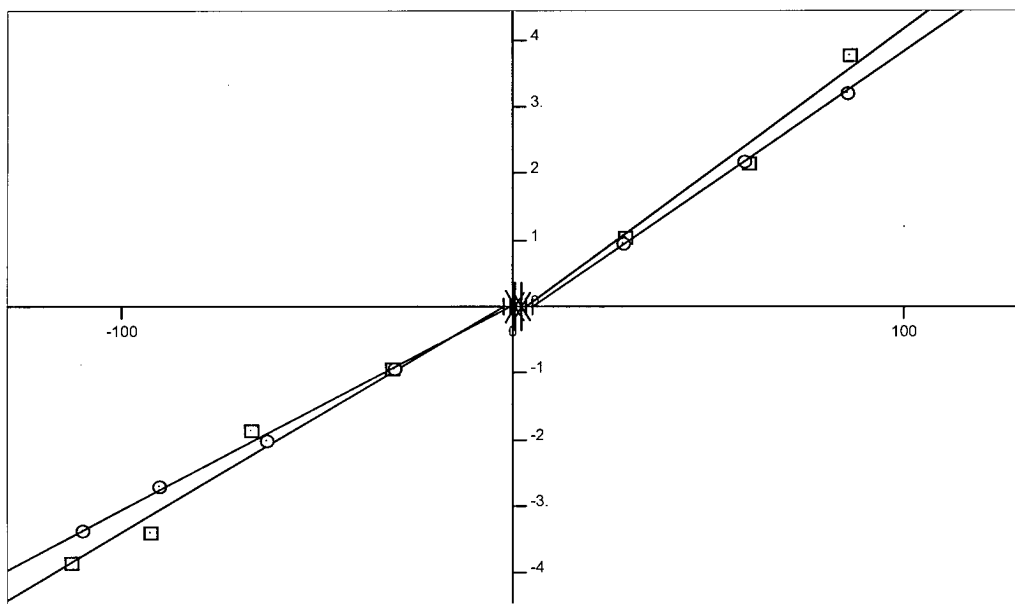
Gravity 0.8 sp. gr.  
 GOR 561.458 cf/bbl  
 Pb Standing  
 Rs Standing  
 Bo Standing  
 co Vasquez and Beggs  
 Muo Beggs and Robinson

**WATER**

Salinity, ppm 20000  
 Rsw Katz  
 cw Dodson and Standing  
 Muw Van-Wingen+Frick

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rps versus ft/min

Threshold (+) 3. ft/min

Threshold (-) -3. ft/min

| Calib. Zone<br>ft | Slope (+) | Slope (-) | Int (+)<br>ft/min | Int (-)<br>ft/min | Int. Diff.<br>ft/min |
|-------------------|-----------|-----------|-------------------|-------------------|----------------------|
| □ 9619.0-9947.4   | 0.043     | 0.035     | 3.57              | -2.43             | 6.00                 |
| ○ 10265.5-10345.7 | 0.040     | 0.031     | 5.23              | -0.77             | 6.00                 |