

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
CD-ARTESIAFORM APPROVED  
OMB No. 1004-0137  
Expires March 31, 2007**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use form 3160-3 (APD) for such proposals.***SUBMIT IN TRIPLICATE - Other instructions on reverse side**

|  |   |  |
|--|---|--|
| 1. Type of Well<br><input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other |   | 5. Lease Serial No.<br>LC-065421   |
| 2. Name of Operator<br>Cimarex Energy Co. of Colorado  |   | 6. If Indian, Allottee or Tribe Name   |
| 3a. Address<br>600 N. Marienfeld St., Ste. 600; Midland, TX 79701  | 3b. Phone No. (include area code)<br>432-571-7800 | 7. If Unit or CA/Agreement, Name and/or No.<br>NM-111029                           |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)<br>1650 FNL & 990 FWL<br>14-24S-26E                       |   | 8. Well Name and No.<br>Bradley 14 Federal Com No. 1                               |
|  |   | 9. API Well No.<br>30-015-32672  |
|  |   | 10. Field and Pool, or Exploratory Area<br>White City; Penn (G) & Wolfcamp Wildcat |
|  |   | 11. County or Parish, State<br>Eddy County, NM                                     |

**CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

| TYPE OF SUBMISSION                                    | TYPE OF ACTION                                |   |  |   |
|---|---|---|--|---|
| <input type="checkbox"/> Notice of Intent             | <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-off                 |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity                 |
| <input type="checkbox"/> Final Abandonment Notice     | <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other Recomplete to |
|   | <input type="checkbox"/> Change Plans         | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       | Cisco and Wolfcamp and                                  |
|   | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back        | <input type="checkbox"/> Water Disposal            | DHC   |

**13. Describe Proposed or Completed Operation (clearly state all pertinent details, included estimated starting date of any proposed work and approximate duration thereof.**

If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

07.14.10 NDWH &amp; NU 5K BOP.

07.15.10 Tested casing to 4000 psi, ok.

07.18.10 Began DO CBP @ 10142.'

07.19.10 DO &amp; pushed CBP to 10377' and tagged.

07.20.10 Set CIBP @ 10175.' Perfed Cisco Canyon 10067-10071, 10082-10086, 10105-10109, 10120-10125, 10136-10139, 10147-10151 3 spf, 72 holes, 3 3/8" perf guns.

07.22.10 Frac'd Cisco Canyon 10067-10151 w/ 4795 gal 15% HCL, 3165 gal 6% HCL-1.5% HF followed by 220,095 gal slickwater containing 25,132# 100 mesh sand. Set CBP @ 10060.'

Perfed Cisco Canyon 9979-9983, 9997-10001, 10024-10029, 10042-10047 3 spf, 54 holes, 3 3/8" perf guns. Frac'd 9979-10047 w/ 977 gal 15% HCL and 4003 gal 6% HCL-1.5% HF followed by 138624 gal slickwater containing 11960# 100 mesh. Set CBP @ 9950.'

Perfed Wolfcamp 9406-9408, 9421-9423, 9438-9440, 9445-9447, 9470-9472, 9492-9494, 9537-9541, 9570-9574, 3 spf, 60 holes, 3 3/8" guns. Frac'd 9406-9574 w/ 8702 gal 15% HCL and 4708 gal 6% HCL-1.5% HF followed by 298,853 gal slickwater containing 43,691 # 100 mesh. Set CBP @ 9390.'

Perfed Wolfcamp 9167-9170, 9257-9260, 9288-9291, 9311-9314, 9336-9340, 9361-9365, 3 spf, 60 holes, 3 3/8" guns. Frac'd 9167-9365 w/ 5176 gal 15% HCL and 4823 gal 6% HCL-1.5% HF followed with 268,669 gal slickwater containing 30,706# 100 mesh.

07.27.10 DO all CBPS.

08.07.10 First production/sales.

Tbg: 2 3/8" L-80 8RD to 9098' w/ pkr @ 9080'

*Submit Completion Report within 30 days***14. I hereby certify that the foregoing is true and correct**

Name (Printed/Typed)

Natalie Krueger

Title

Regulatory

Signature

Date

09.08.10

**ACCEPTED FOR RECORD***[Signature]*  
SEP 27 2010**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Conditions of Approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Office

BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

*[Signature]*

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
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07.27.10 DO all CBPS.

08.07.10 First production/sales as DHC Cisco Canyon/Wolfcamp well.

Results of Production Log

|              | Water  | Oil    | Gas    |
|--------------|--------|--------|--------|
| Wolfcamp     | 32.92% | 33.46% | 29.79% |
| Cisco Canyon | 67.08% | 66.54% | 70.21% |

Production Log is attached.

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Natalie Krueger

Title

Regulatory

Signature

Date

09.08.10

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

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Office

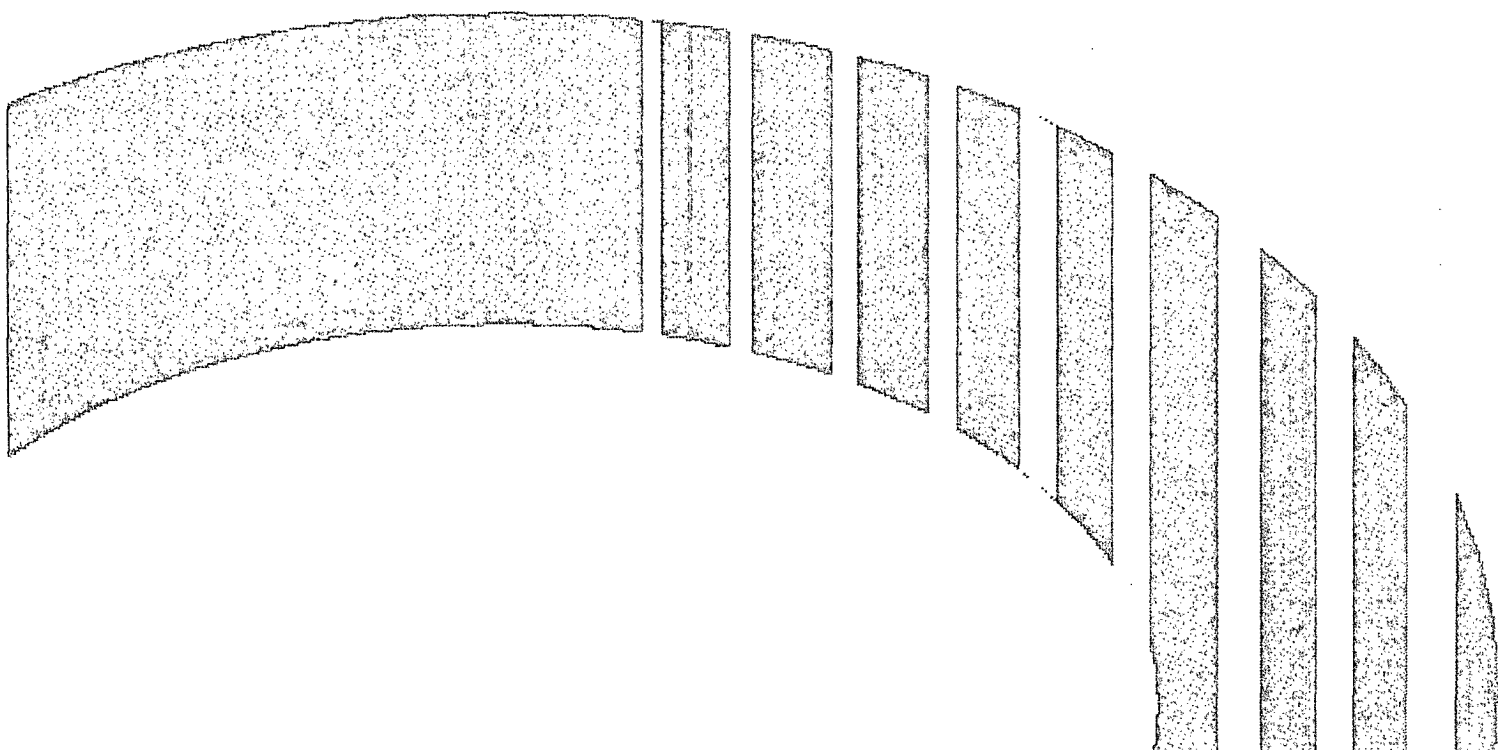
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(Instructions on page 2)

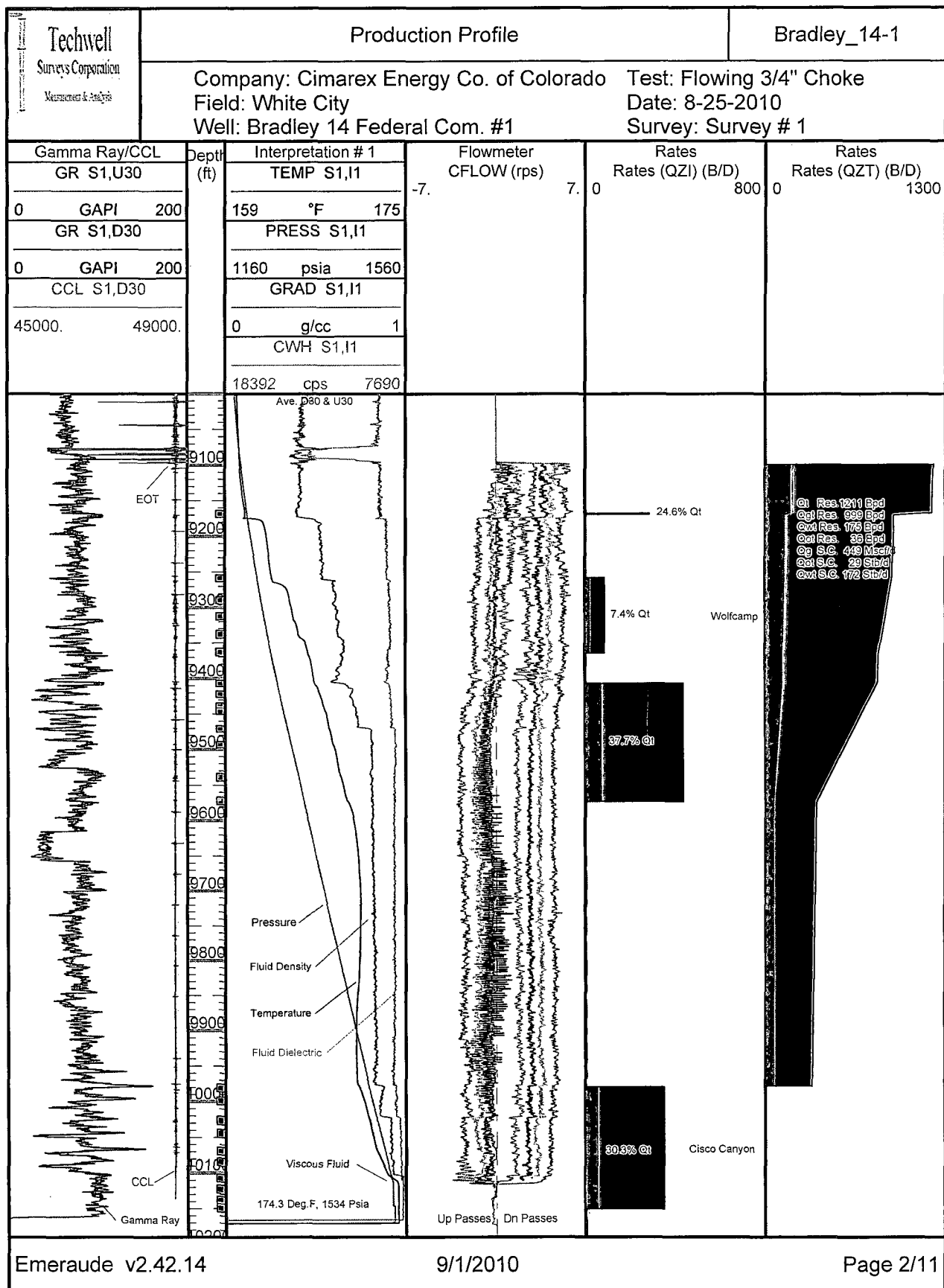
# **Production Profile Interpretation Report**

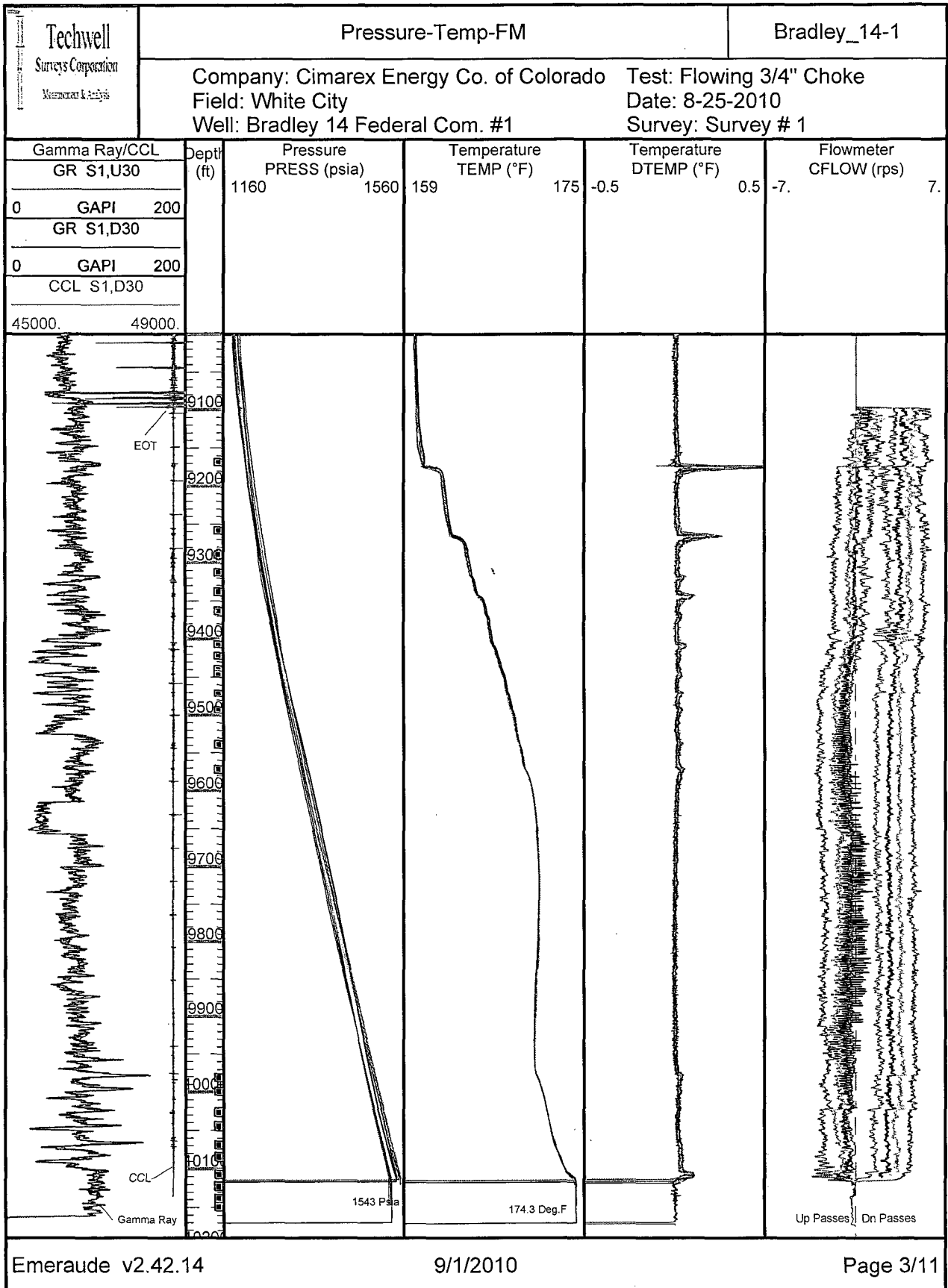
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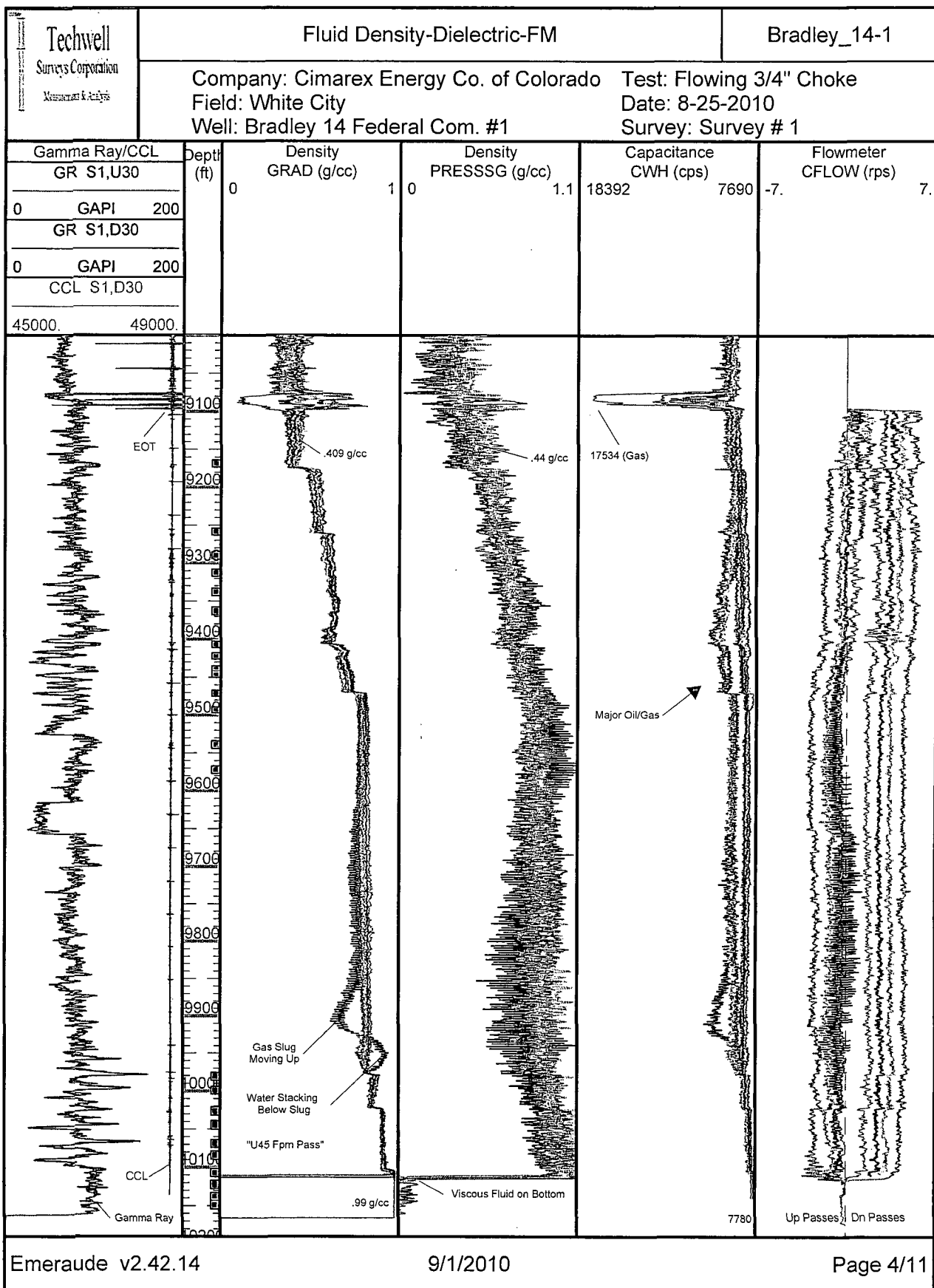
|                             |                                     |
|-----------------------------|-------------------------------------|
| <b>Company:</b>             | <b>Cimarex Energy Co. Colorado</b>  |
| <b>Field:</b>               | <b>White City</b>                   |
| <b>Well:</b>                | <b>Bradley 14 Federal Com.#1</b>    |
| <b>Survey Date:</b>         | <b>8-25-2010</b>                    |
| <b>Service Company:</b>     | <b>Techwell Surveys Corporation</b> |
| <b>Interpretation Date:</b> | <b>8-30-2010</b>                    |
| <b>Analyst:</b>             | <b>JD Taylor</b>                    |

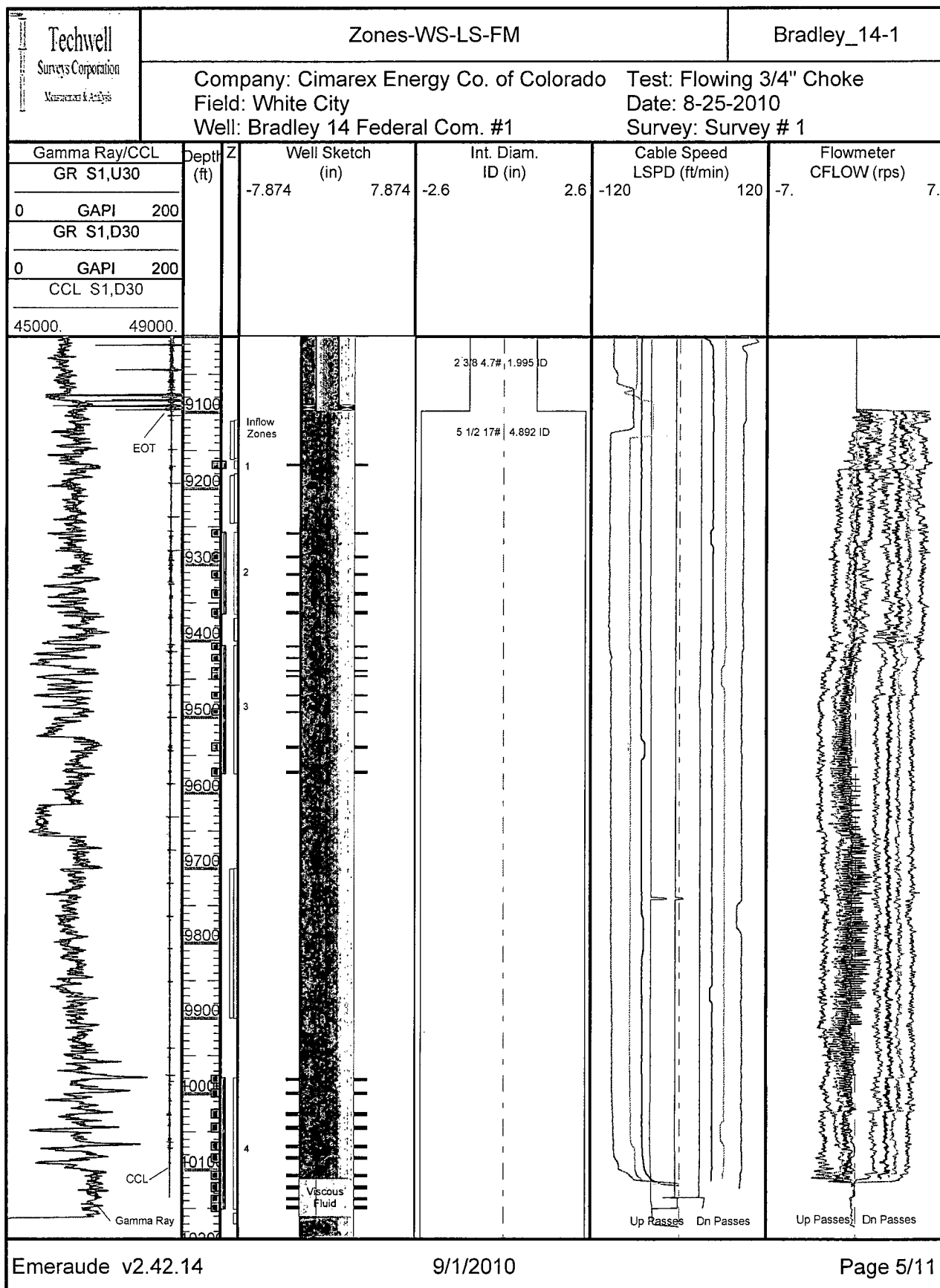


|  |  |                     |   |  |                   |           |                     |           |                 |                              |         |           |  |  |  |  |        |            |  |  |               |  |     |            |     |          |       |           |  |  |  |  |       |  |             |  |             |          |             |                   |                    |       |               |                       |         |           |            |          |  |  |         |           |  |  |  |  |                |                    |  |  |                |        |  |  |                    |       |  |  |  |  |  |  |           |             |  |  |                |        |  |  |                |                |  |  |            |   |  |  |             |   |  |  |                |   |  |  |
|--|--|---------------------|---|--|-------------------|-----------|---------------------|-----------|-----------------|------------------------------|---------|-----------|--|--|--|--|--------|------------|--|--|---------------|--|-----|------------|-----|----------|-------|-----------|--|--|--|--|-------|--|-------------|--|-------------|----------|-------------|-------------------|--------------------|-------|---------------|-----------------------|---------|-----------|------------|----------|--|--|---------|-----------|--|--|--|--|----------------|--------------------|--|--|----------------|--------|--|--|--------------------|-------|--|--|--|--|--|--|-----------|-------------|--|--|----------------|--------|--|--|----------------|----------------|--|--|------------|---|--|--|-------------|---|--|--|----------------|---|--|--|
|   | Job Information  |                     | Bradley_14-1  |  |                   |           |                     |           |                 |                              |         |           |  |  |  |  |        |            |  |  |               |  |     |            |     |          |       |           |  |  |  |  |       |  |             |  |             |          |             |                   |                    |       |               |                       |         |           |            |          |  |  |         |           |  |  |  |  |                |                    |  |  |                |        |  |  |                    |       |  |  |  |  |  |  |           |             |  |  |                |        |  |  |                |                |  |  |            |   |  |  |             |   |  |  |                |   |  |  |
|  | Company: Cimarex Energy Co. of Colorado<br>Field: White City<br>Well: Bradley 14 Federal Com. #1 |                     | Test: Flowing 3/4" Choke<br>Date: 8-25-2010<br>Survey: Survey # 1 |  |                   |           |                     |           |                 |                              |         |           |  |  |  |  |        |            |  |  |               |  |     |            |     |          |       |           |  |  |  |  |       |  |             |  |             |          |             |                   |                    |       |               |                       |         |           |            |          |  |  |         |           |  |  |  |  |                |                    |  |  |                |        |  |  |                    |       |  |  |  |  |  |  |           |             |  |  |                |        |  |  |                |                |  |  |            |   |  |  |             |   |  |  |                |   |  |  |
| <table border="0"> <tr> <td>Survey date</td> <td>8-25-2010</td> <td>Interpretation date</td> <td>8/30/2010</td> </tr> <tr> <td>Service company</td> <td>Techwell Surveys Corporation</td> <td>Done by</td> <td>JD Taylor</td> </tr> <tr> <td colspan="4"> </td> </tr> <tr> <td>SURVEY</td> <td>Survey # 1</td> <td colspan="2"> </td> </tr> <tr> <td>Surface rates</td> <td> </td> <td>Gas</td> <td>449 Mscf/D</td> </tr> <tr> <td>Oil</td> <td>29 STB/D</td> <td>Water</td> <td>172 STB/D</td> </tr> <tr> <td colspan="4"> </td> </tr> <tr> <td>TOOLS</td> <td> </td> <td>Capacitance</td> <td> </td> </tr> <tr> <td>String O.D.</td> <td>1.375 in</td> <td>Calib. type</td> <td>Yw vs norm. resp.</td> </tr> <tr> <td>Spinner blade O.D.</td> <td>3. in</td> <td>Default chart</td> <td>CWH Water-Hydrocarbon</td> </tr> <tr> <td>Density</td> <td>Corrected</td> <td>100% Water</td> <td>7690 cps</td> </tr> <tr> <td> </td> <td> </td> <td>100% HC</td> <td>18392 cps</td> </tr> <tr> <td colspan="4"> </td> </tr> <tr> <td>INTERPRETATION</td> <td>Interpretation # 1</td> <td colspan="2"> </td> </tr> <tr> <td>Density offset</td> <td>0 g/cc</td> <td colspan="2"> </td> </tr> <tr> <td>Capacitance offset</td> <td>0 cps</td> <td colspan="2"> </td> </tr> <tr> <td colspan="4"> </td> </tr> <tr> <td>Flow type</td> <td>3-Phase L-G</td> <td colspan="2"> </td> </tr> <tr> <td>Flow model L-G</td> <td>Dukler</td> <td colspan="2"> </td> </tr> <tr> <td>Flow model W-O</td> <td>ABB - Deviated</td> <td colspan="2"> </td> </tr> <tr> <td>Vpcf mult.</td> <td>1</td> <td colspan="2"> </td> </tr> <tr> <td>Vslip mult.</td> <td>1</td> <td colspan="2"> </td> </tr> <tr> <td>Vslip mult.W-O</td> <td>1</td> <td colspan="2"> </td> </tr> </table> |  |                     |   |  | Survey date       | 8-25-2010 | Interpretation date | 8/30/2010 | Service company | Techwell Surveys Corporation | Done by | JD Taylor |  |  |  |  | SURVEY | Survey # 1 |  |  | Surface rates |  | Gas | 449 Mscf/D | Oil | 29 STB/D | Water | 172 STB/D |  |  |  |  | TOOLS |  | Capacitance |  | String O.D. | 1.375 in | Calib. type | Yw vs norm. resp. | Spinner blade O.D. | 3. in | Default chart | CWH Water-Hydrocarbon | Density | Corrected | 100% Water | 7690 cps |  |  | 100% HC | 18392 cps |  |  |  |  | INTERPRETATION | Interpretation # 1 |  |  | Density offset | 0 g/cc |  |  | Capacitance offset | 0 cps |  |  |  |  |  |  | Flow type | 3-Phase L-G |  |  | Flow model L-G | Dukler |  |  | Flow model W-O | ABB - Deviated |  |  | Vpcf mult. | 1 |  |  | Vslip mult. | 1 |  |  | Vslip mult.W-O | 1 |  |  |
| Survey date  | 8-25-2010  | Interpretation date | 8/30/2010   |  |                   |           |                     |           |                 |                              |         |           |  |  |  |  |        |            |  |  |               |  |     |            |     |          |       |           |  |  |  |  |       |  |             |  |             |          |             |                   |                    |       |               |                       |         |           |            |          |  |  |         |           |  |  |  |  |                |                    |  |  |                |        |  |  |                    |       |  |  |  |  |  |  |           |             |  |  |                |        |  |  |                |                |  |  |            |   |  |  |             |   |  |  |                |   |  |  |
| Service company  | Techwell Surveys Corporation   | Done by             | JD Taylor   |  |                   |           |                     |           |                 |                              |         |           |  |  |  |  |        |            |  |  |               |  |     |            |     |          |       |           |  |  |  |  |       |  |             |  |             |          |             |                   |                    |       |               |                       |         |           |            |          |  |  |         |           |  |  |  |  |                |                    |  |  |                |        |  |  |                    |       |  |  |  |  |  |  |           |             |  |  |                |        |  |  |                |                |  |  |            |   |  |  |             |   |  |  |                |   |  |  |
|  |  |                     |   |  |                   |           |                     |           |                 |                              |         |           |  |  |  |  |        |            |  |  |               |  |     |            |     |          |       |           |  |  |  |  |       |  |             |  |             |          |             |                   |                    |       |               |                       |         |           |            |          |  |  |         |           |  |  |  |  |                |                    |  |  |                |        |  |  |                    |       |  |  |  |  |  |  |           |             |  |  |                |        |  |  |                |                |  |  |            |   |  |  |             |   |  |  |                |   |  |  |
| SURVEY   | Survey # 1   |                     |   |  |                   |           |                     |           |                 |                              |         |           |  |  |  |  |        |            |  |  |               |  |     |            |     |          |       |           |  |  |  |  |       |  |             |  |             |          |             |                   |                    |       |               |                       |         |           |            |          |  |  |         |           |  |  |  |  |                |                    |  |  |                |        |  |  |                    |       |  |  |  |  |  |  |           |             |  |  |                |        |  |  |                |                |  |  |            |   |  |  |             |   |  |  |                |   |  |  |
| Surface rates  |  | Gas                 | 449 Mscf/D  |  |                   |           |                     |           |                 |                              |         |           |  |  |  |  |        |            |  |  |               |  |     |            |     |          |       |           |  |  |  |  |       |  |             |  |             |          |             |                   |                    |       |               |                       |         |           |            |          |  |  |         |           |  |  |  |  |                |                    |  |  |                |        |  |  |                    |       |  |  |  |  |  |  |           |             |  |  |                |        |  |  |                |                |  |  |            |   |  |  |             |   |  |  |                |   |  |  |
| Oil  | 29 STB/D   | Water               | 172 STB/D   |  |                   |           |                     |           |                 |                              |         |           |  |  |  |  |        |            |  |  |               |  |     |            |     |          |       |           |  |  |  |  |       |  |             |  |             |          |             |                   |                    |       |               |                       |         |           |            |          |  |  |         |           |  |  |  |  |                |                    |  |  |                |        |  |  |                    |       |  |  |  |  |  |  |           |             |  |  |                |        |  |  |                |                |  |  |            |   |  |  |             |   |  |  |                |   |  |  |
|  |  |                     |   |  |                   |           |                     |           |                 |                              |         |           |  |  |  |  |        |            |  |  |               |  |     |            |     |          |       |           |  |  |  |  |       |  |             |  |             |          |             |                   |                    |       |               |                       |         |           |            |          |  |  |         |           |  |  |  |  |                |                    |  |  |                |        |  |  |                    |       |  |  |  |  |  |  |           |             |  |  |                |        |  |  |                |                |  |  |            |   |  |  |             |   |  |  |                |   |  |  |
| TOOLS  |  | Capacitance         |   |  |                   |           |                     |           |                 |                              |         |           |  |  |  |  |        |            |  |  |               |  |     |            |     |          |       |           |  |  |  |  |       |  |             |  |             |          |             |                   |                    |       |               |                       |         |           |            |          |  |  |         |           |  |  |  |  |                |                    |  |  |                |        |  |  |                    |       |  |  |  |  |  |  |           |             |  |  |                |        |  |  |                |                |  |  |            |   |  |  |             |   |  |  |                |   |  |  |
| String O.D.  | 1.375 in   | Calib. type         | Yw vs norm. resp.   |  |                   |           |                     |           |                 |                              |         |           |  |  |  |  |        |            |  |  |               |  |     |            |     |          |       |           |  |  |  |  |       |  |             |  |             |          |             |                   |                    |       |               |                       |         |           |            |          |  |  |         |           |  |  |  |  |                |                    |  |  |                |        |  |  |                    |       |  |  |  |  |  |  |           |             |  |  |                |        |  |  |                |                |  |  |            |   |  |  |             |   |  |  |                |   |  |  |
| Spinner blade O.D.   | 3. in  | Default chart       | CWH Water-Hydrocarbon   |  |                   |           |                     |           |                 |                              |         |           |  |  |  |  |        |            |  |  |               |  |     |            |     |          |       |           |  |  |  |  |       |  |             |  |             |          |             |                   |                    |       |               |                       |         |           |            |          |  |  |         |           |  |  |  |  |                |                    |  |  |                |        |  |  |                    |       |  |  |  |  |  |  |           |             |  |  |                |        |  |  |                |                |  |  |            |   |  |  |             |   |  |  |                |   |  |  |
| Density  | Corrected  | 100% Water          | 7690 cps  |  |                   |           |                     |           |                 |                              |         |           |  |  |  |  |        |            |  |  |               |  |     |            |     |          |       |           |  |  |  |  |       |  |             |  |             |          |             |                   |                    |       |               |                       |         |           |            |          |  |  |         |           |  |  |  |  |                |                    |  |  |                |        |  |  |                    |       |  |  |  |  |  |  |           |             |  |  |                |        |  |  |                |                |  |  |            |   |  |  |             |   |  |  |                |   |  |  |
|  |  | 100% HC             | 18392 cps   |  |                   |           |                     |           |                 |                              |         |           |  |  |  |  |        |            |  |  |               |  |     |            |     |          |       |           |  |  |  |  |       |  |             |  |             |          |             |                   |                    |       |               |                       |         |           |            |          |  |  |         |           |  |  |  |  |                |                    |  |  |                |        |  |  |                    |       |  |  |  |  |  |  |           |             |  |  |                |        |  |  |                |                |  |  |            |   |  |  |             |   |  |  |                |   |  |  |
|  |  |                     |   |  |                   |           |                     |           |                 |                              |         |           |  |  |  |  |        |            |  |  |               |  |     |            |     |          |       |           |  |  |  |  |       |  |             |  |             |          |             |                   |                    |       |               |                       |         |           |            |          |  |  |         |           |  |  |  |  |                |                    |  |  |                |        |  |  |                    |       |  |  |  |  |  |  |           |             |  |  |                |        |  |  |                |                |  |  |            |   |  |  |             |   |  |  |                |   |  |  |
| INTERPRETATION   | Interpretation # 1   |                     |   |  |                   |           |                     |           |                 |                              |         |           |  |  |  |  |        |            |  |  |               |  |     |            |     |          |       |           |  |  |  |  |       |  |             |  |             |          |             |                   |                    |       |               |                       |         |           |            |          |  |  |         |           |  |  |  |  |                |                    |  |  |                |        |  |  |                    |       |  |  |  |  |  |  |           |             |  |  |                |        |  |  |                |                |  |  |            |   |  |  |             |   |  |  |                |   |  |  |
| Density offset   | 0 g/cc   |                     |   |  |                   |           |                     |           |                 |                              |         |           |  |  |  |  |        |            |  |  |               |  |     |            |     |          |       |           |  |  |  |  |       |  |             |  |             |          |             |                   |                    |       |               |                       |         |           |            |          |  |  |         |           |  |  |  |  |                |                    |  |  |                |        |  |  |                    |       |  |  |  |  |  |  |           |             |  |  |                |        |  |  |                |                |  |  |            |   |  |  |             |   |  |  |                |   |  |  |
| Capacitance offset   | 0 cps  |                     |   |  |                   |           |                     |           |                 |                              |         |           |  |  |  |  |        |            |  |  |               |  |     |            |     |          |       |           |  |  |  |  |       |  |             |  |             |          |             |                   |                    |       |               |                       |         |           |            |          |  |  |         |           |  |  |  |  |                |                    |  |  |                |        |  |  |                    |       |  |  |  |  |  |  |           |             |  |  |                |        |  |  |                |                |  |  |            |   |  |  |             |   |  |  |                |   |  |  |
|  |  |                     |   |  |                   |           |                     |           |                 |                              |         |           |  |  |  |  |        |            |  |  |               |  |     |            |     |          |       |           |  |  |  |  |       |  |             |  |             |          |             |                   |                    |       |               |                       |         |           |            |          |  |  |         |           |  |  |  |  |                |                    |  |  |                |        |  |  |                    |       |  |  |  |  |  |  |           |             |  |  |                |        |  |  |                |                |  |  |            |   |  |  |             |   |  |  |                |   |  |  |
| Flow type  | 3-Phase L-G  |                     |   |  |                   |           |                     |           |                 |                              |         |           |  |  |  |  |        |            |  |  |               |  |     |            |     |          |       |           |  |  |  |  |       |  |             |  |             |          |             |                   |                    |       |               |                       |         |           |            |          |  |  |         |           |  |  |  |  |                |                    |  |  |                |        |  |  |                    |       |  |  |  |  |  |  |           |             |  |  |                |        |  |  |                |                |  |  |            |   |  |  |             |   |  |  |                |   |  |  |
| Flow model L-G   | Dukler   |                     |   |  |                   |           |                     |           |                 |                              |         |           |  |  |  |  |        |            |  |  |               |  |     |            |     |          |       |           |  |  |  |  |       |  |             |  |             |          |             |                   |                    |       |               |                       |         |           |            |          |  |  |         |           |  |  |  |  |                |                    |  |  |                |        |  |  |                    |       |  |  |  |  |  |  |           |             |  |  |                |        |  |  |                |                |  |  |            |   |  |  |             |   |  |  |                |   |  |  |
| Flow model W-O   | ABB - Deviated   |                     |   |  |                   |           |                     |           |                 |                              |         |           |  |  |  |  |        |            |  |  |               |  |     |            |     |          |       |           |  |  |  |  |       |  |             |  |             |          |             |                   |                    |       |               |                       |         |           |            |          |  |  |         |           |  |  |  |  |                |                    |  |  |                |        |  |  |                    |       |  |  |  |  |  |  |           |             |  |  |                |        |  |  |                |                |  |  |            |   |  |  |             |   |  |  |                |   |  |  |
| Vpcf mult.   | 1  |                     |   |  |                   |           |                     |           |                 |                              |         |           |  |  |  |  |        |            |  |  |               |  |     |            |     |          |       |           |  |  |  |  |       |  |             |  |             |          |             |                   |                    |       |               |                       |         |           |            |          |  |  |         |           |  |  |  |  |                |                    |  |  |                |        |  |  |                    |       |  |  |  |  |  |  |           |             |  |  |                |        |  |  |                |                |  |  |            |   |  |  |             |   |  |  |                |   |  |  |
| Vslip mult.  | 1  |                     |   |  |                   |           |                     |           |                 |                              |         |           |  |  |  |  |        |            |  |  |               |  |     |            |     |          |       |           |  |  |  |  |       |  |             |  |             |          |             |                   |                    |       |               |                       |         |           |            |          |  |  |         |           |  |  |  |  |                |                    |  |  |                |        |  |  |                    |       |  |  |  |  |  |  |           |             |  |  |                |        |  |  |                |                |  |  |            |   |  |  |             |   |  |  |                |   |  |  |
| Vslip mult.W-O   | 1  |                     |   |  |                   |           |                     |           |                 |                              |         |           |  |  |  |  |        |            |  |  |               |  |     |            |     |          |       |           |  |  |  |  |       |  |             |  |             |          |             |                   |                    |       |               |                       |         |           |            |          |  |  |         |           |  |  |  |  |                |                    |  |  |                |        |  |  |                    |       |  |  |  |  |  |  |           |             |  |  |                |        |  |  |                |                |  |  |            |   |  |  |             |   |  |  |                |   |  |  |
| <p><b>Comments</b></p> <p>Well logged flowing to sales with 260 psi ftp on a 3/4" choke, line pressure at 244 psi. 70% of the production is coming from the Wolfcamp with 30% from the Cisco Canyon. There was no fluid entry into the lower part of the casing string as it was filled with a thick viscous fluid (10112-10151). Data suggests that the major oil is from the middle of the Wolfcamp, top of inflow zone 3. Depth corrected to Halliburton CBL dated 5-30-2003. See detailed analysis below!</p> <p>Bradley 14-1 API # 30-015-32672<br/>         1650' FNL &amp; 990' FWL of Sec.14, T24S,R26E<br/>         Eddy Co., New Mexico</p> <p>JD Taylor<br/>         Techwell Surveys Corporation 432-664-4978.</p>   |  |                     |   |  |                   |           |                     |           |                 |                              |         |           |  |  |  |  |        |            |  |  |               |  |     |            |     |          |       |           |  |  |  |  |       |  |             |  |             |          |             |                   |                    |       |               |                       |         |           |            |          |  |  |         |           |  |  |  |  |                |                    |  |  |                |        |  |  |                    |       |  |  |  |  |  |  |           |             |  |  |                |        |  |  |                |                |  |  |            |   |  |  |             |   |  |  |                |   |  |  |
| <table border="0"> <tr> <td>Emeraude v2.42.14</td> <td>9/1/2010</td> <td>Page 1/11</td> </tr> </table>   |  |                     |   |  | Emeraude v2.42.14 | 9/1/2010  | Page 1/11           |           |                 |                              |         |           |  |  |  |  |        |            |  |  |               |  |     |            |     |          |       |           |  |  |  |  |       |  |             |  |             |          |             |                   |                    |       |               |                       |         |           |            |          |  |  |         |           |  |  |  |  |                |                    |  |  |                |        |  |  |                    |       |  |  |  |  |  |  |           |             |  |  |                |        |  |  |                |                |  |  |            |   |  |  |             |   |  |  |                |   |  |  |
| Emeraude v2.42.14  | 9/1/2010   | Page 1/11           |   |  |                   |           |                     |           |                 |                              |         |           |  |  |  |  |        |            |  |  |               |  |     |            |     |          |       |           |  |  |  |  |       |  |             |  |             |          |             |                   |                    |       |               |                       |         |           |            |          |  |  |         |           |  |  |  |  |                |                    |  |  |                |        |  |  |                    |       |  |  |  |  |  |  |           |             |  |  |                |        |  |  |                |                |  |  |            |   |  |  |             |   |  |  |                |   |  |  |











|  |  |  |   |
|--|--|--|---|
| <div>Techwell</div> <div>Surveys Corporation</div> <div>Measurement &amp; Analysis</div> | Zone Contributions; S.C.   |  | Bradley_14-1  |
|  | Company: Cimarex Energy Co. of Colorado<br>Field: White City<br>Well: Bradley 14 Federal Com. #1 |  | Test: Flowing 3/4" Choke<br>Date: 8-25-2010<br>Survey: Survey # 1 |

| Zones<br>ft    | Water<br>STB/D | Oil<br>STB/D | Gas<br>Mscf/D |
|----------------|----------------|--------------|---------------|
| 9167.0-9170.0  | 41.22          | 7.10         | 103.91        |
| 9257.0-9365.0  | 15.43          | 2.66         | 29.90         |
| 9406.0-9574.0  | 66.24          | 11.33        | 165.07        |
| 9979.0-10151.0 | 49.20          | 8.08         | 150.31        |
| Total          | 172.08         | 29.17        | 449.18        |

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Company: Cimarex Energy Co. of Colorado  
Field: White City  
Well: Bradley 14 Federal Com. #1

Test: Flowing 3/4" Choke  
Date: 8-25-2010  
Survey: Survey # 1

| Zones<br>ft    | Qt res.<br>B/D | Production<br>% |
|----------------|----------------|-----------------|
| 9167.0-9170.0  | 281.81         | 24.56           |
| 9257.0-9365.0  | 84.78          | 7.39            |
| 9406.0-9574.0  | 432.96         | 37.74           |
| 9979.0-10151.0 | 347.81         | 30.31           |

Contributions by phase

| Zones<br>ft    | Qw res.<br>B/D | Qo res.<br>B/D | Qg res.<br>B/D | <div> <div></div> W  <div></div> O  <div></div> G </div> |
|----------------|----------------|----------------|----------------|--|
| 9167.0-9170.0  | 41.99          | 8.76           | 231.06         | <div> <div></div> <div></div> <div></div> </div>         |
| 9257.0-9365.0  | 15.73          | 3.24           | 65.81          | <div> <div></div> <div></div> <div></div> </div>         |
| 9406.0-9574.0  | 67.60          | 14.09          | 351.28         | <div> <div></div> <div></div> <div></div> </div>         |
| 9979.0-10151.0 | 50.25          | 10.36          | 287.20         | <div> <div></div> <div></div> <div></div> </div>         |

| Zone<br>ft     | Corr. factor | Vm<br>ft/min | Q downhole<br>B/D | Contribution<br>% |
|----------------|--------------|--------------|-------------------|-------------------|
| 9167.0-9170.0  | 0.87         | 36.165       | 1210.70           | 24.56             |
| 9257.0-9365.0  | 0.87         | 27.521       | 921.30            | 7.39              |
| 9406.0-9574.0  | 0.87         | 24.303       | 813.60            | 37.74             |
| 9979.0-10151.0 | 0.85         | 10.390       | 347.81            | 30.31             |

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 |
|----------------|----------------|------------------|----------------|------------------|----------------|-------------------|
| 9167.0-9170.0  | 175.30         | 172.08           | 36.10          | 29.17            | 999.30         | 449.18            |
| 9257.0-9365.0  | 133.40         | 130.87           | 27.40          | 22.07            | 760.50         | 345.28            |
| 9406.0-9574.0  | 117.80         | 115.43           | 24.30          | 19.41            | 671.50         | 315.38            |
| 9979.0-10151.0 | 50.25          | 49.20            | 10.36          | 8.08             | 287.20         | 150.31            |

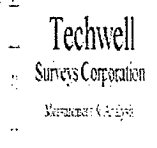
Company: Cimarex Energy Co. of Colorado      Test: Flowing 3/4" Choke  
Field: White City      Date: 8-25-2010  
Well: Bradley 14 Federal Com. #1      Survey: Survey # 1

| # | From-To<br>ft | ID<br>in | Deviation<br>° | Rt       | T<br>°F  | P<br>psia |
|---|---------------|----------|----------------|----------|----------|-----------|
| 1 | 9110.0-9160.0 | 4.8900   | 0.0000         | 3.679E-4 | 160.0000 | 1199.9000 |
| 2 | 9180.0-9245.0 | 4.8900   | 0.0000         | 3.679E-4 | 163.0000 | 1217.4000 |
| 3 | 9370.0-9400.0 | 4.8900   | 0.0000         | 3.679E-4 | 167.0000 | 1267.2000 |
| 4 | 9700.0-9900.0 | 4.8900   | 0.0000         | 3.679E-4 | 171.0000 | 1412.4000 |

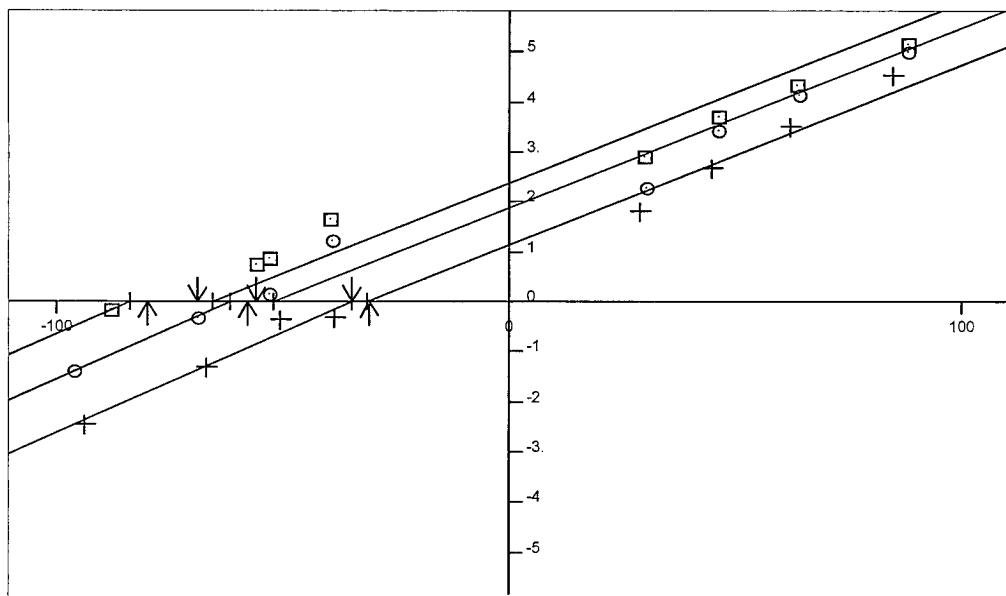
| # | Bw     | Muw<br>cp | Rhow<br>g/cc | Bo     | Muo<br>cp | Rhoo<br>g/cc | Bg     | Mug<br>cp | Rhog<br>g/cc |
|---|--------|-----------|--------------|--------|-----------|--------------|--------|-----------|--------------|
| 1 | 1.0187 | 0.4409    | 1.0000       | 1.2374 | 0.4218    | 0.6800       | 0.0129 | 0.0144    | 0.0666       |
| 2 | 1.0194 | 0.4326    | 1.0000       | 1.2412 | 0.4139    | 0.6800       | 0.0127 | 0.0145    | 0.0673       |
| 3 | 1.0205 | 0.4187    | 0.9900       | 1.2518 | 0.3979    | 0.6800       | 0.0123 | 0.0146    | 0.0696       |
| 4 | 1.0214 | 0.4048    | 0.9900       | 1.2821 | 0.3704    | 0.6700       | 0.0110 | 0.0151    | 0.0776       |

| # | Correl. | Correl. W-O    | Regime          | Slip<br>ft/min | Slip W-O<br>ft/min |
|---|---------|----------------|-----------------|----------------|--------------------|
| 1 | Dukler  | ABB - Deviated | Slug liquid-gas | 57.433         | 20.438             |
| 2 | Dukler  | ABB - Deviated | Slug liquid-gas | 57.464         | 20.470             |
| 3 | Dukler  | ABB - Deviated | Slug liquid-gas | 57.413         | 20.561             |
| 4 | Dukler  | ABB - Deviated | Bubble          | 59.378         | 20.821             |

| # | Yw     | Yo     | Yg     | Vw<br>ft/min | Vo<br>ft/min | Vg<br>ft/min |
|---|--------|--------|--------|--------------|--------------|--------------|
| 1 | 0.5400 | 0.0235 | 0.4400 | 9.6700       | 45.8000      | 68.6000      |
| 2 | 0.6300 | 0.0216 | 0.3500 | 6.3400       | 37.9000      | 64.9000      |
| 3 | 0.6600 | 0.0205 | 0.3200 | 5.3000       | 35.3000      | 63.6000      |
| 4 | 0.8500 | 0.0119 | 0.1400 | 1.7700       | 26.0000      | 61.5000      |

|   |  |          |   |
|---|--|----------|---|
|    | PVT  |          | Bradley_14-1  |
|   | Company: Cimarex Energy Co. of Colorado<br>Field: White City<br>Well: Bradley 14 Federal Com. #1 |          | Test: Flowing 3/4" Choke<br>Date: 8-25-2010<br>Survey: Survey # 1 |
| <p>FLUID TYPE    Water - Oil+Gas</p> <p>GAS</p> <p>Specific gravity    0.7</p> <p>N2 %    0</p> <p>CO2 %    0</p> <p>H2S %    0</p> <p>Z    Beggs and Brill</p> <p>Mug    Lee et al.</p> <p>OIL</p> <p>Gravity    0.7822 sp. gr.</p> <p>GOR    561.458 cf/bbl</p> <p>Pb    Standing</p> <p>Rs    Standing</p> <p>Bo    Standing</p> <p>co    Vasquez and Beggs</p> <p>Muo    Beggs and Robinson</p> <p>WATER</p> <p>Salinity, ppm    20000</p> <p>Rsw    Katz</p> <p>cw    Dodson and Standing</p> <p>Muw    Van-Wingen+Frick</p> |  |          |   |
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|  |  |   |              |
|--|--|---|--------------|
| <b>Techwell</b><br>Surveys Corporation<br>Denver, Colorado | Calibration  |   | Bradley_14-1 |
|  | Company: Cimarex Energy Co. of Colorado<br>Field: White City<br>Well: Bradley 14 Federal Com. #1 | Test: Flowing 3/4" Choke<br>Date: 8-25-2010<br>Survey: Survey # 1 |              |



rps versus ft/min

Threshold (+) 3.6 ft/min

Threshold (-) -3.7 ft/min

|   | Calib. Zone<br>ft | Slope (+) | Slope (-) | Int (+)<br>ft/min | Int (-)<br>ft/min | Int. Diff.<br>ft/min |
|---|-------------------|-----------|-----------|-------------------|-------------------|----------------------|
| □ | 9111.3-9161.5     | 0.036     | 0.040     | -65.21            | -83.59            | 18.38                |
| ○ | 9182.3-9245.2     | 0.036     | 0.040     | -51.99            | -61.27            | 9.28                 |
| + | 9700.7-9899.8     | 0.036     | 0.040     | -31.13            | -34.52            | 3.39                 |