

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTOil Cons.  
N.M. DIV-Dist. 2  
1301 W. Grand Avenue  
Artesia, NM 88210FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2004

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry Other  
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,  
Other \_\_\_\_\_2. Name of Operator  
**Read & Stevens, Inc.**3. Address **P. O. Box 1518 Roswell, NM 88202** 3a. Phone No. (include area code) **505/622-3770**

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*

At surface **1980' FSL & 1980' FWL**At top prod. interval reported below **same**At total depth **same**14. Date Spudded **5-30-03** 15. Date T.D. Reached **7-19-03**16. Date Completed **9-16-03**  
☐ D & A ☐ Ready to Prod.5. Lease Serial No. **NMNM-90876**

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.

**West Haystack Unit Federal #1**9. API Well No. **30-005-63568**10. Field and Pool, or Exploratory  
**Undesignated Montoya**11. Sec., T., R., M., on Block and  
Survey or Area **Sec 18 T6S-R27E**12. County or Parish **Chaves County** 13. State **NM**

17. Elevations (DF, RKB, RT, GL)\*

**3,882' GL**18. Total Depth: MD **6,065'** 19. Plug Back T.D.: MD **5,890'** 20. Depth Bridge Plug Set: MD **5,890'**  
TVD TVD TVD21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
**GR, Neutron, Density, Laterlog & Caliper**  
**GR, CBL, VDL**22. Was well cored? ☒ No ☐ Yes (Submit analysis)  
Was DST run? ☐ No ☒ Yes (Submit report)  
Directional Survey? ☒ No ☐ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

| Hole Size | Size/Grade | Wt. (#/ft.) | Top (MD) | Bottom (MD) | Stage Cement Depth | No. of Sk. & Type of Cement | Slurry Vol. (BBL) | Cement Top* | Amount Pulled |
|-----------|------------|-------------|----------|-------------|--------------------|-----------------------------|-------------------|-------------|---------------|
| 18"       | 14"        |             |          | 40'         |                    |                             |                   |             |               |
| 12 1/4"   | 8 5/8"     | 32#         |          | 1,100'      |                    | 545 sx                      |                   | Circ        | 70 sx         |
| 7 7/8"    | 5 1/2"     | 17#         |          | 6,065'      |                    | 1,240 sx                    |                   | Circ        | 12 sx         |
|           |            |             |          |             |                    |                             |                   |             |               |
|           |            |             |          |             |                    |                             |                   |             |               |
|           |            |             |          |             |                    |                             |                   |             |               |

24. Tubing Record

| Size   | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) |
|--------|----------------|-------------------|------|----------------|-------------------|------|----------------|-------------------|
| 2 7/8" | 5,419'         | OE                |      |                |                   |      |                |                   |

25. Producing Intervals

| Formation | Top | Bottom | Perforated Interval | Size | No. Holes | Perf. Status |
|-----------|-----|--------|---------------------|------|-----------|--------------|
| A)        |     |        |                     |      |           |              |
| B)        |     |        | See Attached        |      |           |              |
| C)        |     |        |                     |      |           |              |
| D)        |     |        |                     |      |           |              |

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

| Depth Interval | Amount and Type of Material |
|----------------|-----------------------------|
|                | See Attached                |
|                |                             |
|                |                             |

28. Production - Interval A

| Date First Produced | Test Date            | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
|                     |                      |              | →               |         |         |           |                       |             | Shut In           |
| Choke Size          | Tbg. Press. Flwg. SI | Csg. Press.  | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas : Oil Ratio       | Well Status |                   |
|                     |                      |              | →               |         |         |           |                       |             |                   |

28a. Production - Interval B

| Date First Produced | Test Date         | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|-------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
|                     |                   |              | →               |         |         |           |                       |             |                   |
| Choke Size          | Tbg. Press. Flwg. | Csg. Press.  | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas : Oil Ratio       | Well Status |                   |
|                     |                   |              |                 |         |         |           |                       |             |                   |

ACCEPTED FOR RECORD  
NOV 18 2003  
ARMANDO A. LOPEZ  
PETROLEUM ENGINEER

## 3b. Production - Interval C

| Rate First<br>Produced | Test<br>Date               | Hours<br>Tested | Test<br>Production<br>→ | Oil<br>BBL | Gas<br>MCF | Water<br>BBL | Oil Gravity<br>Corr. API | Gas<br>Gravity | Production Method |
|------------------------|----------------------------|-----------------|-------------------------|------------|------------|--------------|--------------------------|----------------|-------------------|
| Flow<br>Rate           | Tbg. Press.<br>Flwg.<br>SI | Csg.<br>Press.  | 24 Hr.<br>Rate<br>→     | Oil<br>BBL | Gas<br>MCF | Water<br>BBL | Gas : Oil<br>Ratio       | Well Status    |                   |

## 3c. Production - Interval D

| Rate First<br>Produced | Test<br>Date               | Hours<br>Tested | Test<br>Production<br>→ | Oil<br>BBL | Gas<br>MCF | Water<br>BBL | Oil Gravity<br>Corr. API | Gas<br>Gravity | Production Method |
|------------------------|----------------------------|-----------------|-------------------------|------------|------------|--------------|--------------------------|----------------|-------------------|
| Flow<br>Rate           | Tbg. Press.<br>Flwg.<br>SI | Csg.<br>Press.  | 24 Hr.<br>Rate<br>→     | Oil<br>BBL | Gas<br>MCF | Water<br>BBL | Gas : Oil<br>Ratio       | Well Status    |                   |

Disposition of Gas (Sold, used for fuel, vented, etc.)

## 31. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

| Formation | Top | Bottom | Descriptions, Contents, etc. | Name          | Top         |
|-----------|-----|--------|------------------------------|---------------|-------------|
|           |     |        |                              |               | Meas. Depth |
|           |     |        |                              | San Andres    | 950         |
|           |     |        |                              | Abo           | 4200        |
|           |     |        |                              | Cisco         | 5514        |
|           |     |        |                              | Strawn        | 5690        |
|           |     |        |                              | Mississippian | 5881        |
|           |     |        |                              | Pre-Cambrian  | 6004        |

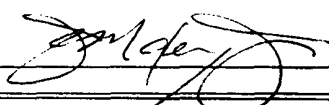
2. Additional remarks (include plugging procedure):

## 3. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)    2. Geologic Report    3. DST Report    4. Directional Survey  
5. Sundry Notice for plugging and cement verification    6. Core Analysis    7. Other

Deviation Survey. Logs previously sent.

4. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) John C. Maxey, Jr.Title Operations ManagerSignature Date 11-6-03

Under 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 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.

Form 3160-4 Lines 26 & 27 Attachments

West Haystack Unit Fedael #1  
API# 30-005-63568  
Section 18 T6S-R27E  
Chaves County, New Mexico

Perforation Record/Acid, Fracture, Treatment, Cement, Squeeze, Etc.

|                         |     |          |                       |
|-------------------------|-----|----------|-----------------------|
| 5,981'-85', 5,992',-96' | 42" | 18 holes | 500 gal 15% NEFe acid |
|-------------------------|-----|----------|-----------------------|

|            |      |          |                      |
|------------|------|----------|----------------------|
| 5,906'-18' | .45" | 25 holes | 500 gal 15% NEFe HCl |
|------------|------|----------|----------------------|

CIBP @ 5,890' w/ 35' cmt on top

|                                    |      |  |                         |
|------------------------------------|------|--|-------------------------|
| 5,624'-28', 5,636'-42', 5,660'-67' | .45" |  | 1,500 gal 15% NEFe acid |
|------------------------------------|------|--|-------------------------|

|                                                    |      |          |                         |
|----------------------------------------------------|------|----------|-------------------------|
| 5,516'-18', 5,522'-26', 5,564'-66'<br>& 5,574'-82' | .45" | 32 holes | 1,500 gal 15% NEFe acid |
|----------------------------------------------------|------|----------|-------------------------|

WELL NAME AND NUMBER West Haystack Federal No. 1

LOCATION 1980' FSL & 1980' FWL, Section 18, T8S, R27E, Chaves County NM

OPERATOR Read & Stevens, Inc.

DRILLING CONTRACTOR United Drilling, Inc.

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above described well and had conducted deviation tests and obtained the following results:

| <u>Degrees @ Depth</u> | <u>Degrees @ Depth</u>      | <u>Degrees @ Depth</u>      |
|------------------------|-----------------------------|-----------------------------|
| <u>3/4° 211'</u>       | <u>3/4° 3496'</u>           | <u>                    </u> |
| <u>1° 584'</u>         | <u>1° 3685'</u>             | <u>                    </u> |
| <u>1° 1104'</u>        | <u>1° 4063'</u>             | <u>                    </u> |
| <u>3/4° 1538'</u>      | <u>1-1/4° 4590'</u>         | <u>                    </u> |
| <u>1/2° 1854'</u>      | <u>1-1/2° 5405'</u>         | <u>RECEIVED</u>             |
| <u>1/2° 2169'</u>      | <u>1-1/4° 5700'</u>         | <u>NOV 20 2003</u>          |
| <u>1-1/4° 2485'</u>    | <u>1° 6060'</u>             | <u>OCD-ARTESIA</u>          |
| <u>3/4° 2706'</u>      | <u>                    </u> | <u>                    </u> |

Drilling Contractor United Drilling, Inc.

By: George A. Aho

Title: Business Manager

Subscribed and sworn to before me this 21<sup>st</sup> day of July,  
2003.

Karna Tankersley  
Notary Public

My Commission Expires: 09-25-03

Chaves NM  
County State

Report Number: 10625787  
Test Date: - -  
Note: All Depths to Bottom of Tool

100 71

**SCHLUMBERGER**

0000700000 VV: 15:15 0007:15:15

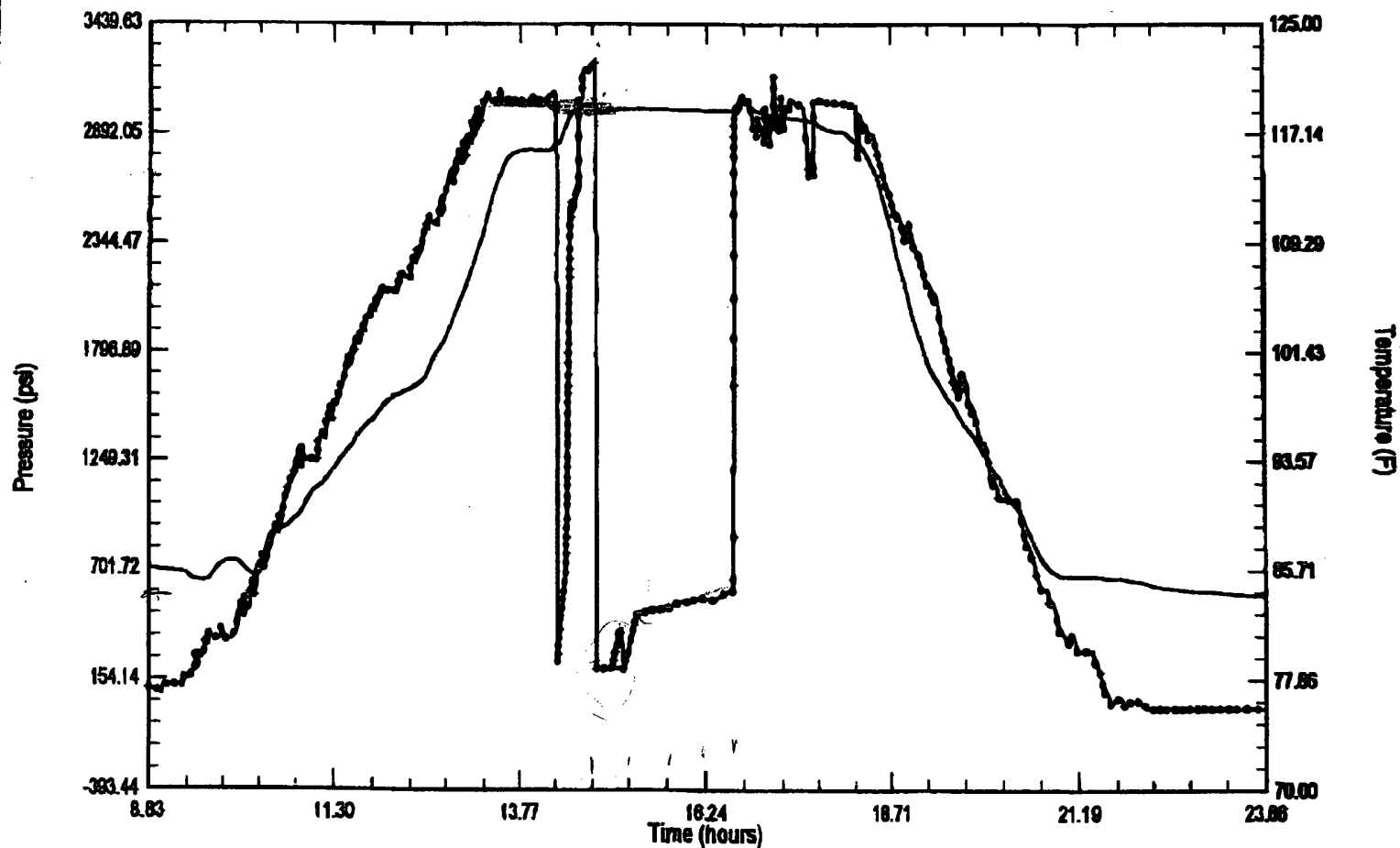
**Schlumberger**

**Data Plots**  
**READ & STEVENS**  
**DST**

WEST HAYSTACK UNIT #11  
SOUTH ROSWELL

10625787  
13-Jul-03

### Bottomhole Pressure and Temperature Log



Gauge Depth : 5700 ft TVD - 5700 ft MD  
Gauge ID : SLSR-866

**Schlumberger**

Gauge Data  
**READ & STEVENS**  
DST

**WEST HAYSTACK UNIT #1 1**  
**SOUTH ROSWELL**

Gauge Serial # SLGR-888

10625787

July 13, 2003

| Date<br>(dd-mm-yy) | Time<br>(hh:mm:ss) | Elapsed<br>Time (hrs) | BHP<br>(psia) | BHT<br>(Deg F) | Comments |
|--------------------|--------------------|-----------------------|---------------|----------------|----------|
|--------------------|--------------------|-----------------------|---------------|----------------|----------|

## Second Flow

|           |          |          |         |        |  |
|-----------|----------|----------|---------|--------|--|
| 13-Jul-03 | 22:11:18 | 14.82167 | 209.599 | 118.83 |  |
| 13-Jul-03 | 22:11:27 | 14.82417 | 209.685 | 118.81 |  |
| 13-Jul-03 | 22:11:45 | 14.82917 | 208.715 | 118.80 |  |
| 13-Jul-03 | 22:11:54 | 14.83167 | 206.688 | 118.78 |  |
| 13-Jul-03 | 22:12:09 | 14.83583 | 200.187 | 118.76 |  |
| 13-Jul-03 | 22:12:18 | 14.83833 | 198.812 | 118.74 |  |
| 13-Jul-03 | 22:12:27 | 14.84083 | 199.279 | 118.74 |  |
| 13-Jul-03 | 22:12:36 | 14.84333 | 200.333 | 118.74 |  |
| 13-Jul-03 | 22:12:54 | 14.84833 | 203.940 | 118.74 |  |
| 13-Jul-03 | 22:13:03 | 14.85083 | 206.357 | 118.74 |  |
| 13-Jul-03 | 22:13:21 | 14.85583 | 207.890 | 118.74 |  |
| 13-Jul-03 | 22:13:30 | 14.85833 | 207.971 | 118.74 |  |
| 13-Jul-03 | 22:13:42 | 14.86167 | 208.259 | 118.74 |  |
| 13-Jul-03 | 22:13:54 | 14.86500 | 207.676 | 118.74 |  |
| 13-Jul-03 | 22:14:03 | 14.86750 | 207.678 | 118.74 |  |
| 13-Jul-03 | 22:14:12 | 14.87000 | 207.842 | 118.74 |  |
| 13-Jul-03 | 22:14:24 | 14.87333 | 208.888 | 118.74 |  |
| 13-Jul-03 | 22:14:36 | 14.87887 | 208.940 | 118.74 |  |
| 13-Jul-03 | 22:14:57 | 14.88250 | 209.622 | 118.74 |  |
| 13-Jul-03 | 22:15:06 | 14.88500 | 209.486 | 118.74 |  |
| 13-Jul-03 | 22:15:24 | 14.89000 | 208.609 | 118.74 |  |
| 13-Jul-03 | 22:15:45 | 14.89583 | 208.881 | 118.74 |  |
| 13-Jul-03 | 22:16:03 | 14.90083 | 208.505 | 118.74 |  |
| 13-Jul-03 | 22:16:12 | 14.90333 | 208.417 | 118.74 |  |
| 13-Jul-03 | 22:16:33 | 14.90917 | 209.113 | 118.76 |  |
| 13-Jul-03 | 22:16:51 | 14.91417 | 208.574 | 118.76 |  |
| 13-Jul-03 | 22:17:06 | 14.91833 | 208.727 | 118.76 |  |
| 13-Jul-03 | 22:17:18 | 14.92167 | 209.057 | 118.76 |  |
| 13-Jul-03 | 22:17:30 | 14.92500 | 208.874 | 118.76 |  |
| 13-Jul-03 | 22:17:42 | 14.92833 | 208.959 | 118.76 |  |
| 13-Jul-03 | 22:18:00 | 14.93333 | 209.045 | 118.78 |  |
| 13-Jul-03 | 22:18:09 | 14.93583 | 209.011 | 118.78 |  |
| 13-Jul-03 | 22:18:18 | 14.93833 | 209.462 | 118.78 |  |
| 13-Jul-03 | 22:18:30 | 14.94167 | 209.755 | 118.78 |  |
| 13-Jul-03 | 22:18:42 | 14.94500 | 209.396 | 118.78 |  |
| 13-Jul-03 | 22:18:51 | 14.94750 | 209.715 | 118.78 |  |

⑦

**Schlumberger****Gauge Data  
READ & STEVENS  
DST****WEST HAYSTACK UNIT #1 1  
SOUTH ROSWELL****Gauge Serial # SL8R-886****10625787****July 13, 2003**

| <b>Date</b><br>(dd-mm-yy) | <b>Time</b><br>(hh:mm:ss) | <b>Elapsed</b><br>Time (hrs) | <b>BHP</b><br>(psia) | <b>BHT</b><br>(Deg F) | <b>Comments</b> |
|---------------------------|---------------------------|------------------------------|----------------------|-----------------------|-----------------|
| 13-Jul-03                 | 22:19:03                  | 14.95083                     | 209.681              | 118.80                |                 |
| 13-Jul-03                 | 22:19:12                  | 14.95333                     | 210.054              | 118.80                |                 |
| 13-Jul-03                 | 22:19:30                  | 14.95833                     | 209.719              | 118.80                |                 |
| 13-Jul-03                 | 22:19:39                  | 14.96083                     | 210.079              | 118.80                |                 |
| 13-Jul-03                 | 22:19:51                  | 14.96417                     | 209.391              | 118.80                |                 |
| 13-Jul-03                 | 22:20:00                  | 14.96667                     | 209.673              | 118.80                |                 |
| 13-Jul-03                 | 22:20:09                  | 14.96917                     | 209.206              | 118.80                |                 |
| 13-Jul-03                 | 22:20:18                  | 14.97167                     | 209.891              | 118.81                |                 |
| 13-Jul-03                 | 22:20:36                  | 14.97667                     | 209.813              | 118.81                |                 |
| 13-Jul-03                 | 22:20:51                  | 14.98083                     | 209.958              | 118.81                |                 |
| 13-Jul-03                 | 22:21:15                  | 14.98750                     | 210.133              | 118.81                |                 |
| 13-Jul-03                 | 22:21:30                  | 14.99167                     | 210.151              | 118.81                |                 |
| 13-Jul-03                 | 22:21:51                  | 14.99750                     | 210.399              | 118.83                |                 |
| 13-Jul-03                 | 22:22:00                  | 15.00000                     | 210.230              | 118.83                |                 |
| 13-Jul-03                 | 22:22:09                  | 15.00250                     | 210.484              | 118.83                |                 |
| 13-Jul-03                 | 22:22:24                  | 15.00667                     | 210.247              | 118.83                |                 |
| 13-Jul-03                 | 22:22:36                  | 15.01000                     | 210.447              | 118.83                |                 |
| 13-Jul-03                 | 22:22:45                  | 15.01250                     | 210.444              | 118.83                |                 |
| 13-Jul-03                 | 22:22:54                  | 15.01500                     | 210.712              | 118.83                |                 |
| 13-Jul-03                 | 22:23:09                  | 15.01917                     | 210.353              | 118.83                |                 |
| 13-Jul-03                 | 22:23:18                  | 15.02167                     | 210.689              | 118.83                |                 |
| 13-Jul-03                 | 22:23:27                  | 15.02417                     | 210.862              | 118.83                |                 |
| 13-Jul-03                 | 22:23:42                  | 15.02833                     | 210.432              | 118.85                |                 |
| 13-Jul-03                 | 22:23:54                  | 15.03167                     | 210.914              | 118.85                |                 |
| Third Flow                |                           |                              |                      |                       |                 |
| 13-Jul-03                 | 22:32:39                  | 15.17750                     | 206.795              | 118.89                |                 |
| 13-Jul-03                 | 22:33:36                  | 15.19333                     | 227.332              | 118.89                |                 |
| 13-Jul-03                 | 22:34:36                  | 15.21000                     | 247.284              | 118.89                |                 |
| 13-Jul-03                 | 22:35:33                  | 15.22583                     | 260.526              | 118.90                |                 |
| 13-Jul-03                 | 22:36:27                  | 15.24083                     | 288.905              | 118.90                |                 |
| 13-Jul-03                 | 22:37:18                  | 15.25500                     | 314.862              | 118.90                |                 |
| 13-Jul-03                 | 22:38:42                  | 15.27833                     | 355.282              | 118.92                |                 |
| 13-Jul-03                 | 22:39:42                  | 15.29500                     | 383.494              | 118.94                |                 |
| 13-Jul-03                 | 22:40:33                  | 15.30917                     | 397.586              | 118.94                |                 |
| 13-Jul-03                 | 22:41:33                  | 15.32583                     | 436.267              | 118.94                |                 |
| 13-Jul-03                 | 22:42:45                  | 15.34583                     | 468.156              | 118.96                |                 |
| 13-Jul-03                 | 22:43:39                  | 15.36083                     | 477.487              | 118.96                |                 |



**Schlumberger**

**Gauge Data**  
**READ & STEVENS**  
**DST**

**WEST HAYSTACK UNIT #1**  
**SOUTH ROSWELL**

**Gauge Serial # SL8R-866**

**10626767**  
**July 13, 2003**

| Date<br>(dd-mm-yy) | Time<br>(hh:mm:ss) | Elapsed<br>Time (hrs) | BHP<br>(psia) | BHT<br>(Deg F) | Comments |
|--------------------|--------------------|-----------------------|---------------|----------------|----------|
| 13-Jul-03          | 22:44:36           | 15.37667              | 475.265       | 118.98         |          |
| 13-Jul-03          | 22:45:39           | 15.39417              | 482.593       | 118.98         |          |
| 13-Jul-03          | 22:47:15           | 15.42083              | 484.815       | 118.98         |          |
| 13-Jul-03          | 22:50:24           | 15.47333              | 490.756       | 118.98         |          |
| 13-Jul-03          | 22:51:51           | 15.49750              | 493.311       | 118.94         |          |
| 13-Jul-03          | 22:53:54           | 15.53167              | 497.180       | 118.94         |          |
| 13-Jul-03          | 22:55:09           | 15.55250              | 499.136       | 118.94         |          |
| 13-Jul-03          | 22:57:27           | 15.59083              | 501.341       | 118.94         |          |
| 13-Jul-03          | 22:59:42           | 15.62833              | 500.784       | 118.94         |          |
| 13-Jul-03          | 23:01:33           | 15.65917              | 502.569       | 118.92         |          |
| 13-Jul-03          | 23:03:18           | 15.68833              | 504.788       | 118.92         |          |
| 13-Jul-03          | 23:04:09           | 15.70250              | 505.390       | 118.92         |          |
| 13-Jul-03          | 23:05:39           | 15.72750              | 506.306       | 118.92         |          |
| 13-Jul-03          | 23:07:00           | 15.75000              | 507.100       | 118.90         |          |
| 13-Jul-03          | 23:08:06           | 15.76833              | 510.735       | 118.90         |          |
| 13-Jul-03          | 23:09:06           | 15.78500              | 515.291       | 118.90         |          |
| 13-Jul-03          | 23:10:21           | 15.80583              | 521.754       | 118.90         |          |
| 13-Jul-03          | 23:11:42           | 15.82833              | 526.553       | 118.90         |          |
| 13-Jul-03          | 23:12:39           | 15.84417              | 529.752       | 118.90         |          |
| 13-Jul-03          | 23:14:27           | 15.87417              | 534.012       | 118.90         |          |
| 13-Jul-03          | 23:15:27           | 15.89083              | 536.480       | 118.90         |          |
| 13-Jul-03          | 23:16:27           | 15.90750              | 538.432       | 118.90         |          |
| 13-Jul-03          | 23:17:24           | 15.92333              | 540.158       | 118.90         |          |
| 13-Jul-03          | 23:19:06           | 15.95167              | 541.902       | 118.89         |          |
| 13-Jul-03          | 23:20:33           | 15.97583              | 541.409       | 118.89         |          |
| 13-Jul-03          | 23:21:39           | 15.99417              | 540.277       | 118.89         |          |
| 13-Jul-03          | 23:23:27           | 16.02417              | 537.635       | 118.89         |          |
| 13-Jul-03          | 23:24:39           | 16.04417              | 538.967       | 118.87         |          |
| 13-Jul-03          | 23:27:06           | 16.08500              | 548.551       | 118.87         |          |
| 13-Jul-03          | 23:28:27           | 16.10750              | 552.131       | 118.87         |          |
| 13-Jul-03          | 23:29:39           | 16.12750              | 554.682       | 118.87         |          |
| 13-Jul-03          | 23:30:54           | 16.14833              | 556.015       | 118.87         |          |
| 13-Jul-03          | 23:31:51           | 16.16417              | 556.193       | 118.87         |          |
| 13-Jul-03          | 23:33:33           | 16.19250              | 557.461       | 118.87         |          |
| 13-Jul-03          | 23:34:24           | 16.20667              | 557.615       | 118.85         |          |
| 13-Jul-03          | 23:35:27           | 16.22417              | 557.296       | 118.85         |          |
| 13-Jul-03          | 23:36:54           | 16.24833              | 557.250       | 118.85         |          |

JUL-14-2003 11:02 AM INATE WARD  
9  
**Schlumberger**

**Gauge Data**  
**READ & STEVENS**  
**DST**

**WEST HAYSTACK UNIT #1 1**  
**SOUTH ROSWELL**

**Gauge Serial # SL6R-886**

**10825787**  
**July 13, 2003**

| <b>Date</b><br><b>(dd-mm-yy)</b> | <b>Time</b><br><b>(hh:mm:ss)</b> | <b>Elapsed</b><br><b>Time (hrs)</b> | <b>BHP</b><br><b>(psia)</b> | <b>BHT</b><br><b>(Deg F)</b> | <b>Comments</b> |
|----------------------------------|----------------------------------|-------------------------------------|-----------------------------|------------------------------|-----------------|
| 13-Jul-03                        | 23:38:45                         | 16.27917                            | 555.755                     | 118.85                       |                 |
| 13-Jul-03                        | 23:39:42                         | 16.29500                            | 554.328                     | 118.85                       |                 |
| 13-Jul-03                        | 23:42:18                         | 16.33833                            | 550.958                     | 118.83                       |                 |
| 13-Jul-03                        | 23:44:12                         | 16.37000                            | 554.570                     | 118.83                       |                 |
| 13-Jul-03                        | 23:45:27                         | 16.39083                            | 559.829                     | 118.83                       |                 |
| 13-Jul-03                        | 23:46:48                         | 16.41333                            | 565.940                     | 118.83                       |                 |
| 13-Jul-03                        | 23:48:15                         | 16.43750                            | 572.658                     | 118.83                       |                 |
| 13-Jul-03                        | 23:50:36                         | 16.47667                            | 582.424                     | 118.83                       |                 |
| 13-Jul-03                        | 23:52:00                         | 16.50000                            | 588.166                     | 118.83                       |                 |
| 13-Jul-03                        | 23:54:09                         | 16.53583                            | 595.990                     | 118.83                       |                 |
| 13-Jul-03                        | 23:55:15                         | 16.55417                            | 599.337                     | 118.83                       |                 |
| 13-Jul-03                        | 23:56:15                         | 16.57083                            | 601.965                     | 118.81                       |                 |

**Schlumberger**

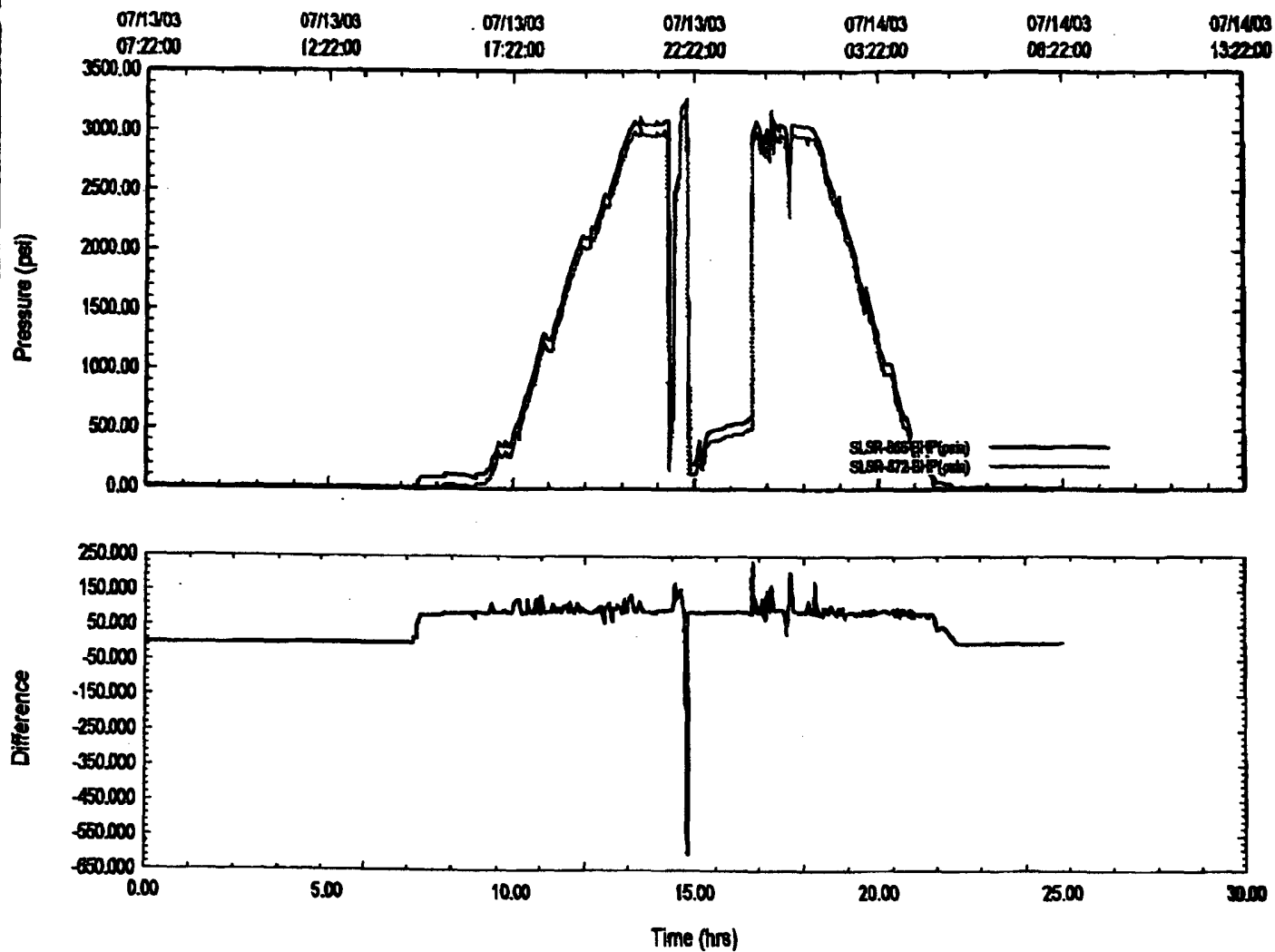
**Gauge Comparison  
READ & STEVENS**

**DST**

**WEST HAYSTACK UNIT #1 1  
SOUTH ROSWELL**

**10625787**

**13-Jul-03**



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**Schlumberger**

**TESTING SERVICES REPORT**

**Report Number**

10825787

**Test Date**

13-Jul-03

**Report Date**

14-Jul-03

**READ & STEVENS**

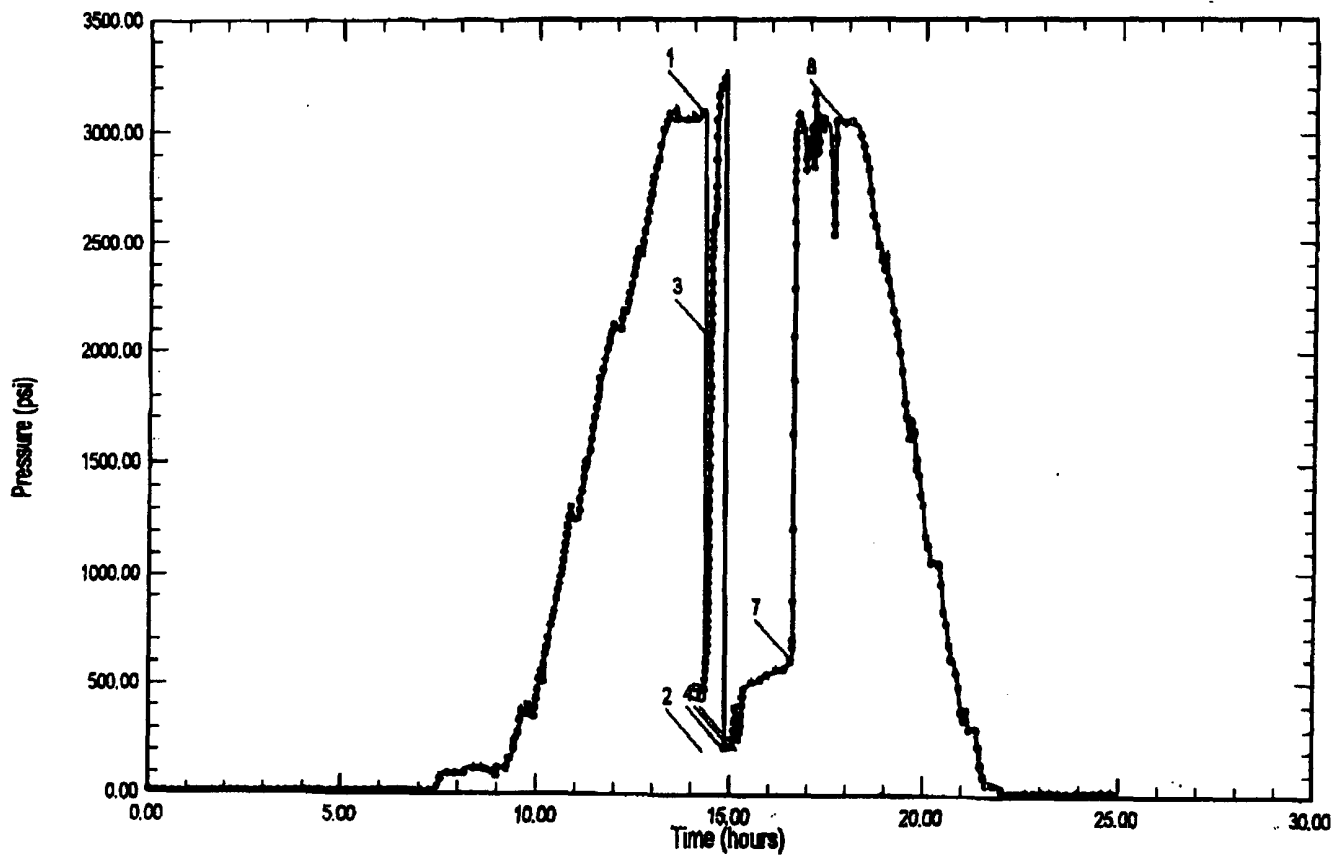
**DST**

**WEST HAYSTACK UNIT #1 - 1**

**SOUTH ROSWELL**

**Rig : UNITED DRILLING #23**

**CHAVEZ - NEW MEXICO**



**Report Contents**

Job Summary, Comments Page, Sequence of Events, Label Point Information, Plots, Summary Data Printout, Distribution

**Schlumberger Testing Services**

**Schlumberger**

**Job Summary**  
**READ & STEVENS**  
**DST**

**WEST HAYSTACK UNIT #1 1**  
**SOUTH ROSWELL**

**Service Order Number : 10625787**  
**Test Date : 13-Jul-03**

**Company Rep** ..... **MAXIE WARD**

**SWS Rep** ..... **Jeremy Cates**

**Test Information**

**Test Number** ..... **ONE**

**Formation** ..... **CISCOE**

**Interval (MD ft)** ..... **184 feet**

**Well Location**

**Well** ..... **WEST HAYSTACK UNIT #1 1**

**Rig** ..... **UNITED DRILLING #23**

**Field** ..... **SOUTH ROSWELL**

**State** ..... **CHAVEZ - NEW MEXICO**

**Wellbore Configuration**

**Total Depth (MD/TVD ft)** ..... **5700**

**Wellbore Radius (ft)** ..... **7.875**

**Casing / Liner ID (in)** ..... **8.625**

**Mud Weight (lb/gal)** ..... **10.2**

**Top of Liner (md- ft)** ..... **1100**

**Mud Type** ..... **SALT GEL/ CORN STARCH**

**Mud: Chloride/Resistivity** .....

**Test String Configuration**

**Pipe Length (ft) / ID (in)** ..... **5042**

**Gauge Depth ( MD )** ..... **5700**

**Pipe Length (ft) / ID (in)** .....

**Gauge Depth ( TVD )** ..... **5700**

**Drill Collar Length (ft) / ID (in)** ..... **591**

**Test Valve Type** ..... **MFE**

**Packer Depth (ft MD)** ..... **5509 / 5516**

**Test Valve Depth (ft) (MD)** ..... **5491**

**Key Information**

**Initial Hydrostatic Pressure** ..... **3092**

**Final Shut In Pressure** .....

**Init. Hyd Grad & Density** ..... **0.542 psi/ft / 10.43 lb/gal**

**Final Shut In Grad & Density** .....

**Final Hydrostatic Pressure** ..... **3050**

**Final Flowing Pressure** ..... **207**

**Final Hyd Grad & Density** ..... **0.535 psi/ft / 10.29 lb/gal**

**Final Flow Rate ( )** .....

**Bottom Hole Temp** ..... **120**

**Productivity Index ( )** .....

THIS DST WAS UNCONCLUSIVE. WE SHEARED THE J LUG WHILE TRYING TO CYCLE THE TOOL. THE RIG DROPPED THE TOOL STRING APROX. 10' SO THERE WAS NO SHUT IN OBTAINED. CUSTOMER REQUESTED TO LEAVE TOOL OPEN FOR A LONGER FLOW THEN PULL LOOSE. WE RECOVERED 180' OF MUD. FOR ANY QUESTIONS PLEASE CALL SCHLUMBERGER TESTING HOBBS NM. THANK YOU.

**Schlumberger Crew**

**Jeremy Cates**

**Schlumberger**

**Sample Chamber Data**  
**READ & STEVENS**  
**DST**

**WEST HAYSTACK UNIT #1**  
**SOUTH ROSWELL**

**10628767**  
**13-Jul-03**

Sample Chamber Capacity (cc) ..... 2500

**Measured Fluid Recovery**

|                            |                  | <u>Temp (F)</u> | <u>Press (psia)</u> |
|----------------------------|------------------|-----------------|---------------------|
| Oil (cc) .....             | API Gravity .... | 75              | 500.0               |
| Water (cc) .....           | Res. (ohms) ...  | 75              | 500.0               |
| Mud (cc) .....             | Res. (ohms) ...  |                 |                     |
| Total Liquid Recovery (cc) |                  |                 |                     |
| Gas (ft3) ..... 1.5        |                  | 75              | 500.0               |

**Corrected Sample Chamber Gas Recovery**

|                                          |                            |       |
|------------------------------------------|----------------------------|-------|
| Bottomhole Temperature (F) ..... 120     | Assumed SC Gas Gravity     | 0.650 |
| Final Flowing Pressure (psia) ..... 207  | Est Z Value @ Pwf and Tres | 0.973 |
| Corrected Gas Recovery (scf) ..... 1.145 |                            |       |

**Sample Chamber Fluid Ratios**

|                                       |  |
|---------------------------------------|--|
| Sample Chamber Water Cut .....        |  |
| GOR Using Corrected Gas Recovery ...  |  |
| GLR Using Corrected Gas Recovery .... |  |

**Pipe Recovery**

| <u>Description</u> | <u>Recovery</u><br><u>feet</u> | <u>Pipe ID</u><br><u>(in)</u> | <u>Recovery</u><br><u>bbt</u> | <u>Oil Density</u><br><u>API</u> | <u>RES</u><br><u>ohm</u> | <u>CHL</u><br><u>ppm</u> |
|--------------------|--------------------------------|-------------------------------|-------------------------------|----------------------------------|--------------------------|--------------------------|
| DRILLING MUD       | 180                            |                               |                               | @ 75 F                           | @ 75 F                   | 96k @ 75 F               |

7-14-2003 10:55 AM HALL WARD

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**Schlumberger**

**Sequence of Events**  
**READ & STEVENS**  
**DST**

WEST HAYSTACK UNIT #1 1  
SOUTH ROSWELL

10625787  
13-Jul-03

| Date<br>(dd-mm-yy) | Time<br>(hh-mm-ss) | Comments |
|--------------------|--------------------|----------|
|--------------------|--------------------|----------|

13-Jul-03

0:30 ON 1/4" CHOKE  
0:30 OPEND BACK OF MANIFOLD DID HAVE GAS 3R FLARE  
7:00 ARRIVED ON LOCATION RIG DOWN  
13:30 STARTED TO PICK UP TOOLS  
21:30 ON BOOTOM  
21:39 FIRST FLOW NEEDL VALVE SHUT  
21:45 CYCLED TOOL RIG DROPED TOOL SHEARED J LUG  
21:45 TRIED SEVERAL TIMES TO SHUT IN.  
22:10 START FLOW BOB  
22:15 2 psi  
22:20 2.75 psi  
23:05 4.5 psi  
23:55 5.75 psi START TO PULL LOOSE