

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG 2014

FORM APPROVED

OMB NO. 1004-0137

Expires: March 31, 2007

5. LEASE DESIGNATION AND SERIAL NO.

Jicarilla Contract 155

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ DryOther Farmington Field Office INDIAN ALLOTTEE OR TRIBE NAMEb. Type of Completion ☐ New Well ☐ Workover ☐ Deepen ☐ Plug Back ☒ Diff. Resvr.Other Add pay and surface commingle

Jicarilla Apache Tribe

7. UNIT AGREEMENT

2. Name of Operator

EnerVest Operating, L.L.C.

8. FARM OR LEASE NAME

Jicarilla Apache 155 #19E

3. Address

1001 Fannin Street Ste. 800, Houston, Tx 77002

3a. Phone No. (include area code)

713.970.1847

9. API WELL NO.

30-039-22345

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

At surface 1775' FSL & 1840' FEL (UL J) Sec. 29, T26N, R05W

10. FIELD NAME

Blanco Mesaverde

11. SEC. T, R, M., OR BLOCK AND SURVEY  
OR AREA Sec29, T26N, R05W

At top prod. Interval reported below

At total depth

Same (vertical well)

12. COUNTY OR PARISH

Rio Arriba

13. STATE

NM

14. Date Spudded

9/18/1980

15. Date T.D. Reached

10/3/1980

16. Date Completed 04/04/2014

D & A ☒ Ready to Prod.

4/4/2014

17. ELEVATIONS (DF, RKB, RT, GR, etc.)\*

6443 GR

18. Total Depth: MD 7345'  
TVD 7345'19. Plug back T.D.: MD 7305'  
TVD 7305'20. Depth Bridge Plug Set: MD  
TVD

21. Type Electric &amp; other Logs Run (Submit a copy of each)

GR/CCL/CBL

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 Cementer Depth | No. of Sks. & Type of | Slurry Vol. (Bbl) | Cement Top* | Amount Pulled |
|-----------|-------------|-------------|----------|------------|----------------------|-----------------------|-------------------|-------------|---------------|
| 12 1/4"   | 9 5/8"H-40  | 32.3#       | 0        | 315'       |                      | 240 sx                |                   | Surf (circ) |               |
| 8-3/4"    | 7" L-80     | 23#         | 0        | 7345'      | 3842'                | 1532 sx               |                   |             |               |
|           |             |             |          | 34         |                      |                       |                   |             |               |
|           |             |             |          |            |                      |                       |                   |             |               |
|           |             |             |          |            |                      |                       |                   |             |               |
|           |             |             |          |            |                      |                       |                   |             |               |
|           |             |             |          |            |                      |                       |                   |             |               |
|           |             |             |          |            |                      |                       |                   |             |               |
|           |             |             |          |            |                      |                       |                   |             |               |

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 3/8" | 5082'          |                   | 2-3/8" | 7174'          |                   |      |                |                   |

25. Producing Intervals

| Formation     | Top | Bottom | Perforated Interval | Size  | No. of Holes | Perf. Status    |
|---------------|-----|--------|---------------------|-------|--------------|-----------------|
| A) Mesa Verde |     |        | 5004-5182'          | 0.40" | 42           | Open, producing |
| B) Mesa Verde |     |        | 4680-4842'          | 0.40" | 28           | Open, producing |
| C)            |     |        |                     |       |              |                 |
| D)            |     |        |                     |       |              |                 |

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

| Depth Interval | Amount and Type of Material                                       |
|----------------|---|
| 5004-5182'     | Frac w/51k gal 70% N2, 132k 20-40, (~20k/132k 20/40 was Super LC) |
| 4880-4842'     | Frac w/44k gal 7% N2, 99k 20/40 (~20k/132k 20/40 was Super LC)    |
|                |   |
|                |   |

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 |
|---------------------|------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
| 4/4/2014            | 4/7/2014         | 24           | →               | 15      | 206     | 22        |                       |             | Flowing           |
| Choke Size          | Tbg. Press Flwg. | Csg. Press.  | 24 Hr. Rate     | Oil Bbl | Gas MCF | Water Bbl | Gas: Oil Ratio        | Well Status |                   |
|                     | 250              | 495          | →               | 15      | 206     | 22        |                       | Producing   |                   |

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 |                   |
|                     |                  |              | →               |         |         |           |                       |             |                   |

\*28b. Production- Interval C

| 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. SI | Csg. Press.  | 24 Hr. Rate     | Oil Bbl | Gas MCF | Water Bbl | Gas: Oil Ratio        | Well Status |                   |
|                     |                     |              | →               |         |         |           |                       |             |                   |

28c. Production- Interval D

| 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. SI | Csg. Press.  | 24 Hr. Rate     | Oil Bbl | Gas MCF | Water Bbl | Gas: Oil Ratio        | Well Status |                   |
|                     |                     |              | →               |         |         |           |                       |             |                   |

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

Gas sold with "Test Allowable" C-104 using green completion

30. 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 Measured Depth |
|-----------------|------|--------|-----------------------------|------|--------------------|
| Pictured Cliffs | 2760 | 2870   |                             |      |                    |
| Chacra          | 3680 | 3713   |                             |      |                    |
| Cliffhouse      | 4466 | 4490   |                             |      |                    |
| Menefee         | 4490 | 5000   |                             |      |                    |
| Point Lookout   | 5000 | 5184   |                             |      |                    |
| Gallup          | 6150 | 6440   |                             |      |                    |
| Dakota          | 6984 | 7190   |                             |      |                    |

32. Additional remarks (include plugging procedure):

33. Indicate which items have been attached by placing a check in the appropriate boxes:

☐ Electrical/ Mechanical Logs (1 full set required)
 ☐ Geologic Report
 ☐ DST Report
 ☐ Directional Survey  
☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other:

34. 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) **Jeanie McMillan**

Title **Sr. Regulatory Analyst**

Signature

*Jeanie McMillan*

Date **4/11/2014**

Title 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.

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Jicarilla Contract 155

APR 15 2014

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b. Type of Completion

☐ New Well

☐ Workover

☐ Deepen

☐ Plug Back

☒ Diff. Reservoir

Other Add pay and surface commingle

6. INDIAN ALLOTTEE OR TRIBE NAME

Jicarilla Apache Tribe

7. UNIT AGREEMENT

2. Name of Operator

EnerVest Operating, L.L.C.

8. FARM OR LEASE NAME

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13. STATE

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14. Date Spudded

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18. Total Depth:

MD 7345'

TVD 7345'

19. Plug back T.D.:

MD 7305'

TVD 7305'

20. Depth Bridge Plug Set:

MD

TVD

21. Type Electric & other Logs Run (Submit a copy of each)

GR/CCL/CBL

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 Cementer Depth | No. of Sks. & Type of | Slurry Vol. (Bbl) | Cement Top* | Amount Pulled |
|-----------|-------------|-------------|----------|------------|----------------------|-----------------------|-------------------|-------------|---------------|
| 12 1/4"   | 9 5/8" J-55 | 32.3#       | 0        | 315'       |                      | 240 sx                |                   | Surf (circ) |               |
| 8-3/4"    | 7" J-55     | 23#         | 0        | 7345'      | 3842'                | 1532 sx               |                   |             |               |
|           |             |             |          | 7345'      |                      |                       |                   |             |               |
|           |             |             |          |            |                      |                       |                   |             |               |
|           |             |             |          |            |                      |                       |                   |             |               |
|           |             |             |          |            |                      |                       |                   |             |               |
|           |             |             |          |            |                      |                       |                   |             |               |
|           |             |             |          |            |                      |                       |                   |             |               |
|           |             |             |          |            |                      |                       |                   |             |               |

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 3/8" | 5082'          |                   | 2-3/8" | 7174'          |                   |      |                |                   |

25. Producing Intervals

| Formation     | Top | Bottom | Perforated Interval | Size  | No. of Holes | Perf. Status    |
|---------------|-----|--------|---------------------|-------|--------------|-----------------|
| A) Mesa Verde |     |        | 5004-5182'          | 0.40" | 42           | Open, producing |
| B) Mesa Verde |     |        | 4680-4842'          | 0.40" | 28           | Open, producing |
| C)            |     |        |                     |       |              |                 |
| D)            |     |        |                     |       |              |                 |

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

| Depth Interval | Amount and Type of Material                                       |
|----------------|---|
| 5004-5182'     | Frac w/51k gal 70% N2, 132k 20-40, (~20k/132k 20/40 was Super LC) |
| 4880-4842'     | Frac w/44k gal 7% N2, 99k 20/40 (~20k/132k 20/40 was Super LC)    |

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 |
|---------------------|------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
| 4/4/2014            | 8/7/2014         | 24           | →               | 15      | 206     | 22        |                       |             | Flowing           |
| Choke Size          | Tbg. Press Flwg. | Csg. Press.  | 24 Hr. Rate     | Oil Bbl | Gas MCF | Water Bbl | Gas: Oil Ratio        | Well Status |                   |
|                     | 250              | 495          | →               | 15      | 206     | 22        |                       | Producing   |                   |

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 |                   |
|                     | SI               |              | →               |         |         |           |                       |             |                   |

\* See instructions and spaces for additional data on page 2)

RECORDED

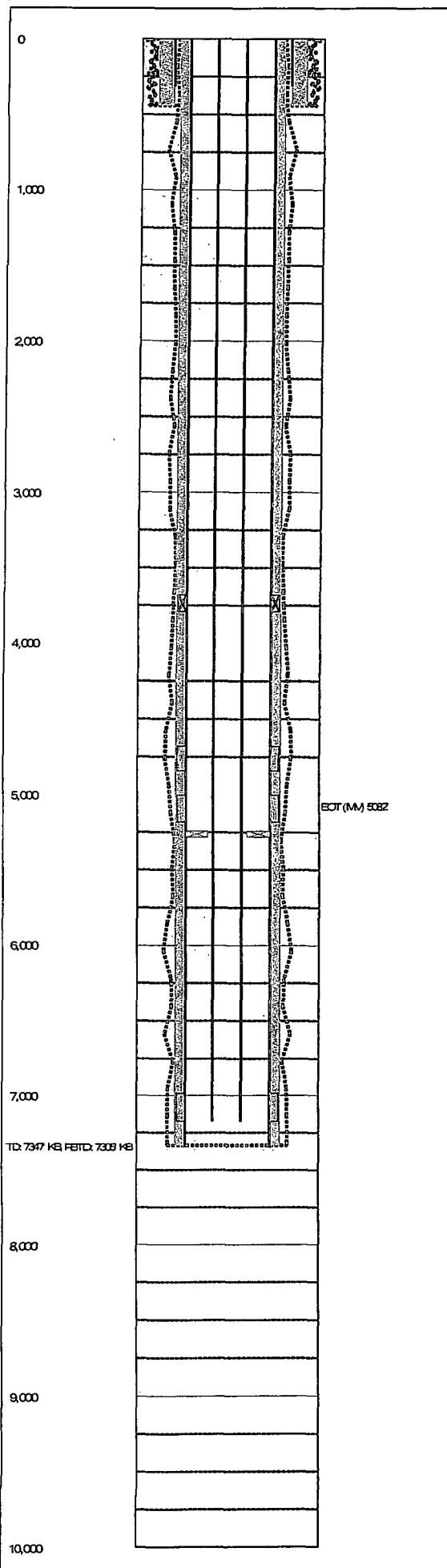
FARMINGTON FIELD OFFICE

BY: S

APR 16 2014

ACCEPTED FOR RECORD





Last Updated: 4/9/2014 03:24 PM

|                        |             |               |                             |
|------------------------|-------------|---------------|-----------------------------|
| Field Name             |             | Lease Name    | Well No.                    |
| Tapicito               |             | Jicarilla 155 | 19E                         |
| County, State          |             |               | API No.                     |
| Rio Arriba, New Mexico |             |               | 00003003922345              |
| Version                | Version Tag |               |                             |
| 0                      |             |               |                             |
| G.L. (ft)              | K.B. (ft)   | Sec.          | Township/Block Range/Survey |
| 6,443.0                | 6,457.0     |               |                             |
| Operator               |             | Well Status   | Latitude Longitude          |
| ENERVEST OPERATING L   |             | Producing     |                             |
| L C                    |             |               |                             |
| Footage Call           |             |               |                             |
|                        |             |               |                             |
| PropNum                |             | Spud Date     | Comp. Date                  |
|                        |             | 9/18/1980     |                             |
| Additional Information |             |               |                             |
|                        |             |               |                             |
| Prepared By            |             | Updated By    | Last Updated                |
| Ryan Lohse             |             | Ryan Lohse    | 4/9/2014 3:24 PM            |

#### Hole Summary

| Date      | O.D. (in) | Top (MD ft) | Bottom (MD ft) | Comments |
|-----------|-----------|-------------|----------------|----------|
| 9/18/1980 | 12.250    | 0           | 441            |          |
|           | 8.750     | 0           | 7,334          |          |

#### Tubular Summary

| Date | Description       | O.D. (in) | Wt (lb/ft) | Grade | Top (MD ft) | Bottom (MD ft) |
|------|-------------------|-----------|------------|-------|-------------|----------------|
|      | Surface Casing    | 9.652     | 323.00     | H40   | 0           | 315            |
|      | Production Casing | 7.000     | 23.00      | J66   | 0           | 7,347          |
|      | Tubing            | 2.375     |            |       | 0           | 5,082          |
|      | Tubing            | 2.375     |            |       | 0           | 7,174          |

#### Casing Cement Summary

| Date      | No. Sx | Csg. O.D. (in) | Top (MD ft) | Bottom (MD ft) | Comments |
|-----------|--------|----------------|-------------|----------------|----------|
|           | 240    | 9.625          | 0           | 441            |          |
| 10/4/1980 | 1,532  | 7.000          | 0           | 7,334          |          |

#### Tools/Problems Summary

| Date | Tool Type | O.D. (in) | I.D. (in) | Top (MD ft) | Bottom (MD ft) |
|------|-----------|-----------|-----------|-------------|----------------|
|      | Pkr       | 7.000     | 3.250     | 5,242       | 0              |

#### Perforation Summary

| C | Date       | Perf. Status | Formation                 | OA Top (MD ft) | OA Bottom (MD ft) | Shots |
|---|------------|--------------|---------------------------|----------------|-------------------|-------|
|   | 11/15/1980 | Squeezed     | Chacra                    | 3,680          | 3,790             | 92    |
|   |            | Open         | Menefee/ Mesa Verde       | 4,680          | 4,842             | 28    |
|   |            | Open         | Point Lookout/ Mesa Verde | 5,004          | 5,182             | 42    |
|   | 11/15/1980 | Open         | Dakota                    | 6,986          | 7,172             | 76    |

Last Updated: 4/9/2014 03:24 PM

|                          |                |              |                        |                     |
|--------------------------|----------------|--------------|------------------------|---------------------|
| Field Name               | Lease Name     | Well No.     | County, State          | API No.             |
| Tapicito                 | Jicarilla 155  | 19E          | Rio Arriba, New Mexico | 00003003922345      |
| Version                  | Version Tag    | Spud Date    | Comp. Date             | G.L. (ft) K.B. (ft) |
| 0                        |                | 9/18/1980    |                        | 6,443.0 6,457.0     |
| Sec.                     | Township/Block | Range/Survey | Footage Call           |                     |
|                          |                |              |                        |                     |
| Operator                 | Well Status    | Latitude     | Longitude              | PropNum             |
| ENERVEST OPERATING L L C | Producing      |              |                        |                     |
| Last Updated             | Prepared By    | Updated By   |                        |                     |
| 04/09/2014 3:24 PM       | Ryan Lohse     | Ryan Lohse   |                        |                     |
| Additional Information   |                |              |                        |                     |
|                          |                |              |                        |                     |

Hole Summary

| Date      | O.D. (in) | Top (MD ft) | Bottom (MD ft) | Comments |
|-----------|-----------|-------------|----------------|----------|
| 9/18/1980 | 12.250    | 0           | 441            |          |
|           | 8.750     | 0           | 7,334          |          |

Tubular Summary

| Date | Description       | No. Jts | O.D. (in) | Wt (lb/ft) | Grade | Top (MD ft) | Bottom (MD ft) | Comments                       |
|------|-------------------|---------|-----------|------------|-------|-------------|----------------|--------------------------------|
|      | Surface Casing    |         | 9.652     | 323.00     | H40   | 0           | 315            |                                |
|      | Production Casing |         | 7.000     | 23.00      | J66   | 0           | 7,347          | TD: 7347' KB, PBTD: 7305' KB   |
|      | Tubing            |         | 2.375     |            |       | 0           | 5,082          | EOT (MV) 5082'                 |
|      | Tubing            |         | 2.375     |            |       | 0           | 7,174          | Seat Nipple (1.78" ID) @ 7173' |





Casing Cement Summary

| Date      | No. Sx | Yield (cuft/sk) | Vol. (cuft) | Csg. O.D. (in) | Top (MD ft) | Bottom (MD ft) | Description | Comments |
|-----------|--------|-----------------|-------------|----------------|-------------|----------------|-------------|----------|
|           | 240    | 1.00            | 240         | 9.625          | 0           | 441            |             |          |
| 10/4/1980 | 1,532  | 1.00            | 1,532       | 7.000          | 0           | 7,334          |             |          |

Tools/Problems Summary

| Date | Tool Type | O.D. (in) | I.D. (in) | Top (MD ft) | Bottom (MD ft) | Description                   | Comments |
|------|-----------|-----------|-----------|-------------|----------------|-------------------------------|----------|
|      | Packer    | 7.000     | 3.250     | 5,242       | 0              | Arrow-drill production packer |          |

Perforation Summary

| C   | Date       | Perf. Status   | Formation                 |       | Comments      |   |
|---|------------|----------------|---------------------------|-------|---------------|---|
|  | 11/15/1980 | Squeezed       | Chacra                    |       |               |   |
| Top (MD ft)   |            | Bottom (MD ft) | SPF                       | Shots | Phasing (deg) | Interval Comments   |
| 3,680   |            | 3,790          | 2                         | 92    |               | 3680-3712, 3776-3790 .5"; Frac (11/23/80): 90k gal 70% quality N2, 162.1K# 10-20 sn.  |
| C   | Date       | Perf. Status   | Formation                 |       | Comments      |   |
|  | 11/15/1980 | Open           | Dakota                    |       |               |   |
| Top (MD ft)   |            | Bottom (MD ft) | SPF                       | Shots | Phasing (deg) | Interval Comments   |
| 6,986   |            | 7,172          | 2                         | 76    |               | 6986-7002, 7011-7024, 7118-7140, 7150-7158, 7164-7172 (134 Shots); Frac (11/18/1980): 6986-7172 131Kgal 40# x-link gel, 457K# 20-40 sn.   |
| C   | Date       | Perf. Status   | Formation                 |       | Comments      |   |
|  |            | Open           | Point Lookout, Mesa Verde |       |               |   |
| Top (MD ft)   |            | Bottom (MD ft) | SPF                       | Shots | Phasing (deg) | Interval Comments   |
| 5,004   |            | 5,182          | 1                         | 42    |               | 5004-5040 (10 holes), 5070-5074 (4 holes), 5084-5088 (4 holes), 5098-5102 (4 holes), 5110-5114 (4 holes), 5124-5128 (4 holes), 5154-5158 (4 holes), 5166-5170 (4 holes), 5178-5182 (4 holes); Frac (3/11/14): 51k gal 70% N2, 132K# 20-40, (~20K/132K 20/40 was Super LC) |
| C   | Date       | Perf. Status   | Formation                 |       | Comments      |   |
|  |            | Open           | Menefee/ Mesa Verde       |       |               |   |
| Top (MD ft)   |            | Bottom (MD ft) | SPF                       | Shots | Phasing (deg) | Interval Comments   |
| 4,680   |            | 4,842          |                           | 28    |               | 4680-4692 (10 holes), 4715-4722 (8 holes), 4830-4842 (10 holes); Frac (3/14/2014): 44K gal 7% N2, 99K# 20/40, (~20k/132K 20/40 was Super LC)  |