Form 3160-4
(June 2015)

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Farmington Field Office
Bureau of Land Management

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2018

# WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. **NMSF-078640**

1a. Type of Well: [ ] Oil Well [X] Gas Well [ ] Dry [ ] Other
b. Type of Completion: [ ] New Well [ ] Work Over [ ] Deepen [ ] Plug Back [ ] Diff. Resvr.,
Other: **RECOMPLETE - Amended**

6. If Indian, Allottee or Tribe Name:

7. Unit or CA Agreement Name and No.: **San Juan 28-7 Unit**

2. Name of Operator: **Hilcorp Energy Company**

8. Lease Name and Well No.: **San Juan 28-7 Unit 154F**

3. Address: **382 Road 3100, Aztec, NM 87410**

3a. Phone No. *(include area code)*: **(505) 599-3400**

9. API Well No.: **30-039-31145**

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

At surface **Unit P (SESE), 842' FSL & 1205' FEL**
Bottomhole **Unit O (SWSE), 1315' FSL & 2055' FEL**

10. Field and Pool or Exploratory: **Basin Mancos**

11. Sec., T., R., M., on Block and Survey or Area: **Sec. 17, T27N, R07W**

At top prod. Interval reported below: **Same as above**

At total depth: **Same as above**

12. County or Parish: **Rio Arriba**

13. State: **New Mexico**

14. Date Spudded: **3/8/2013**

15. Date T.D. Reached: **3/26/2013**

16. Date Completed: **8/5/2018** [ ] D & A [X] Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*: **6597'**

18. Total Depth: **7735' MD / 7582' TVD**

19. Plug Back T.D.: **7708' MD / 7555' TVD**

20. Depth Bridge Plug Set: MD / TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

22. Was well cored? [X] No [ ] Yes (Submit analysis)
Was DST run? [X] No [ ] Yes (Submit report)
Directional Survey? [X] 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 Cement | Slurry Vol. (BBL) | Cement top* | Amount Pulled |
|---|---|---|---|---|---|---|---|---|---|
| 12-1/4" | 9 5/8" H-40 | 32.3# | 0 | 349' | n/a | 101 sx | 29 bbl | Surf | 6 bbls |
| 8-3/4" | 7" J-55 | 23# | 0 | 4830' | n/a | 659 sx | 236 bbl | Surf | 100 bbls |
| 6-1/4" | 4 1/2" L-80 | 11.6# | 0 | 7731' | n/a | 212 sx | 76 bbl | 380' | none |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

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" | 7634' | | | | | | | |

25. Producing Intervals / 26. Perforation Record

| | Formation | Top | Bottom | Perforated Interval | Size | No. Holes | Perf. Status |
|---|---|---|---|---|---|---|---|
| A) | Lower Mancos | 6830' | 6832' | 6 SPF | 0.42" | 12 | open |
| B) | Upper Mancos | 6580' | 6582' | 6 SPF | 0.42" | 12 | open |
| C) | | | | | | | |
| D) | TOTAL | | | | | 24 | |

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

| Depth Interval | |
|---|---|
| 6830'-6832' | Pumped 20.8 bbls 2% KCL water and formation brokedown @ 3700#. |
| 6580'-6582' | Pumped 20 bbls 2% KCL water and formation brokedown @ 3700#. |
| | |
| | |

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 |
|---|---|---|---|---|---|---|---|---|---|
| N/A | 8/6/2018 | 1 | → | 0 | 0 | 0 | n/a | n/a | Vented |

| Choke Size | Tbg. Press. SI | Csg. Press Flowing | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas/Oil Ratio | Well Status |
|---|---|---|---|---|---|---|---|---|
| 2.5" | 540 | 670 | → | 0 | 0 | 0 | n/a | non-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. SI | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas/Oil Ratio | Well Status |
|---|---|---|---|---|---|---|---|---|
| | | | → | | | | | |

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SEP 06 2018
FARMINGTON FIELD OFFICE
By: William Tambekou

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

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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 *(Solid, used for fuel, vented, etc.)*

**Vented**

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem test, 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 |
|---|---|---|---|---|---|
| Ojo Alamo | 2254' | 2398' | White, cr-gr ss | Ojo Alamo | 2254' |
| Kirltand | 2398' | 2870' | Gry sh interbedded w/tight, gry, fine-gr ss. | Kirtland | 2398' |
| Fruitland | 2870' | 3148' | Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss. | Fruitland | 2870' |
| Pictured Cliffs | 3148' | 3288' | Bn-Gry, fine grn, tight ss. | Pictured Cliffs | 3148' |
| Lewis | 3288' | 3453' | Shale w/ siltstone stingers | Lewis | 3288' |
| Huerfanito Bentonite | 3453' | 4110' | Huerfanito Bentonite | | 3453' |
| Chacra | 4110' | 4848' | Gry fn grn silty, glauconitic sd stone w/ drk gry shale | Chacra | 4110' |
| Mesa Verde | 4848' | 4864' | Light gry, med-fine gr ss, carb sh & coal | Mesaverde | 4848' |
| Menefee | 4864' | 5446' | Med-dark gry, fine gr ss, carb sh & coal | Menefee | 4864' |
| Point Lookout | 5446' | 5803' | Med-light gry, very fine gr ss w/ frequent sh breaks in lower part of formation | Point Lookout | 5446' |
| Mancos | 5803' | 6605' | Dark gry carb sh. | Mancos | 5803' |
| Gallup | 6605' | 7379' | Lt. gry to brn calc carb micac gluac silts & very fine gry gry ss w/ irreg. interbed sh. | Gallup | 6605' |
| Greenhorn | 7379' | 7439' | Highly calc gry sh w/ thin lmst. | Greenhorn | 7379' |
| Graneros | 7439' | 7494' | Dk gry shale, fossil & carb w/ pyrite incl. | Graneros | 7439' |
| Dakota | 7494' | | Lt to dark gry foss carb sl calc sl sitty ss w/ pyrite incl thin sh bands cly Y shale breaks | Dakota | 7494' |

32. Additional remarks (include plugging procedure):

**The well is now producing as a MV/MC/DK commingled well under DHC #4014AZ.**

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

☐ Electrical/Mechanical Logs (1 full set req'd.) ☐ 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)* **Cherylene Weston** Title **Operations/Regulatory Technician-Sr.**

Signature Cherylene Weston Date 8-30-18

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.

(Continued on page 3)

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UNITED STATES
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FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2018

# WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.: NMSF-078640

1a. Type of Well: [ ] Oil Well [X] Gas Well [ ] Dry [ ] Other
b. Type of Completion: [ ] New Well [ ] Work Over [ ] Deepen [ ] Plug Back [ ] Diff. Resvr.,
Other: RECOMPLETE

6. If Indian, Allottee or Tribe Name:

7. Unit or CA Agreement Name and No.: San Juan 28-7 Unit

2. Name of Operator: Hilcorp Energy Company

8. Lease Name and Well No.: San Juan 28-7 Unit 154F

3. Address: 382 Road 3100, Aztec, NM 87410

3a. Phone No. *(include area code)*: (505) 599-3400

9. API Well No.: 30-039-31145

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

At surface: Unit P (SESE), 842' FSL & 1205' FEL
Bottomhole: Unit O (SWSE), 1315' FSL & 2055' FEL

At top prod. Interval reported below: Same as above

At total depth: Same as above

10. Field and Pool or Exploratory: Basin Mancos

11. Sec., T., R., M., on Block and Survey or Area: Sec. 17, T27N, R07W

12. County or Parish: Rio Arriba

13. State: New Mexico

14. Date Spudded: 3/8/2013

15. Date T.D. Reached: 3/26/2013

16. Date Completed: 8/5/2018 [ ] D & A [X] Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*: 6597'

18. Total Depth: 7735' MD / 7582' TVD

19. Plug Back T.D.: 7708' MD / 7555' TVD

20. Depth Bridge Plug Set: MD / TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

22. Was well cored? [X] No [ ] Yes (Submit analysis)
Was DST run? [X] No [ ] Yes (Submit report)
Directional Survey? [X] 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 Cement | Slurry Vol. (BBL) | Cement top* | Amount Pulled |
|---|---|---|---|---|---|---|---|---|---|
| 12-1/4" | 9 5/8" H-40 | 32.3# | 0 | 349' | n/a | 101 sx | 29 bbl | Surf | 6 bbls |
| 8-3/4" | 7" J-55 | 23# | 0 | 4830' | n/a | 659 sx | 236 bbl | Surf | 100 bbls |
| 6-1/4" | 4 1/2" L-80 | 11.6# | 0 | 7731' | n/a | 212 sx | 76 bbl | 380' | none |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

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" | 7634' | | | | | | | |

25. Producing Intervals / 26. Perforation Record

| | Formation | Top | Bottom | Perforated Interval | Size | No. Holes | Perf. Status |
|---|---|---|---|---|---|---|---|
| A) | Lower Mancos | 6830' | 6832' | 6 SPF | 0.42" | 12 | open |
| B) | Upper Mancos | 6580' | 6582' | 6 SPF | 0.42" | 12 | open |
| C) | | | | | | | |
| D) | TOTAL | | | | | 24 | |

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FARMINGTON FIELD OFFICE
By:

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

| Depth Interval | |
|---|---|
| 6830'-6832' | Pumped 20.8 bbls 2% KCL water and formation brokedown @ 3700#. |
| 6580'-6582' | Pumped 20 bbls 2% KCL water and formation brokedown @ 3700#. |
| | |
| | |

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 |
|---|---|---|---|---|---|---|---|---|---|
| N/A | 8/6/2018 | 1 | → | 0 | 0 | 0 | n/a | n/a | NMOCD Vented |

| Choke Size | Tbg. Press. SI | Csg. Press Flowing | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas/Oil Ratio | Well Status |
|---|---|---|---|---|---|---|---|---|
| 2.5" | 540 | 670 | → | 0 | 0 | 0 | n/a | non-producing |

AUG 28 2018
DISTRICT III

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. SI | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas/Oil Ratio | Well Status |
|---|---|---|---|---|---|---|---|---|
| | | | → | | | | | |

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

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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 *(Solid, used for fuel, vented, etc.)*

**Vented**

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem test, 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 |
|---|---|---|---|---|---|
| Ojo Alamo | 2254' | 2398' | White, cr-gr ss | Ojo Alamo | 2254' |
| Kirltand | 2398' | 2870' | Gry sh interbedded w/tight, gry, fine-gr ss. | Kirtland | 2398' |
| Fruitland | 2870' | 3148' | Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss. | Fruitland | 2870' |
| Pictured Cliffs | 3148' | 3288' | Bn-Gry, fine grn, tight ss. | Pictured Cliffs | 3148' |
| Lewis | 3288' | 4110' | Shale w/ siltstone stingers | Lewis | 3288' |
| Chacra | 4110' | 4848' | Gry fn grn silty, glauconitic sd stone w/ drk gry shale | Chacra | 4110' |
| Mesa Verde | 4848' | 4864' | Light gry, med-fine gr ss, carb sh & coal | Mesaverde | 4848' |
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| Point Lookout | 5446' | 5803' | Med-light gry, very fine gr ss w/ frequent sh breaks in lower part of formation | Point Lookout | 5446' |
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| Greenhorn | 7379' | 7439' | Highly calc gry sh w/ thin lmst. | Greenhorn | 7379' |
| Graneros | 7439' | 7494' | Dk gry shale, fossil & carb w/ pyrite incl. | Graneros | 7439' |
| Dakota | 7494' | | Lt to dark gry foss carb sl calc sl sitty ss w/ pyrite incl thin sh bands cly Y shale breaks | Dakota | 7494' |

32. Additional remarks (include plugging procedure):

**The well is now producing as a commingled MV/DK well under DHC #4014AZ.**

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

☐ Electrical/Mechanical Logs (1 full set req'd.) ☐ 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)* Cherylene Weston Title Operations/Regulatory Technician-Sr.

Signature Cherylene Weston Date 8-17-18

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.

(Continued on page 3)

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2018

# WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. **NMSF-078640**

1a. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☐ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,
Other: **RECOMPLETE - Amended**

6. If Indian, Allottee or Tribe Name:

7. Unit or CA Agreement Name and No.: **San Juan 28-7 Unit**

2. Name of Operator: **Hilcorp Energy Company**

8. Lease Name and Well No.: **San Juan 28-7 Unit 154F**

3. Address: **382 Road 3100, Aztec, NM 87410**

3a. Phone No. *(include area code)*: **(505) 599-3400**

9. API Well No.: **30-039-31145**

4. Location of Well *(Report location clearly and in accordance with Federal requirements)**
At surface **Unit P (SESE), 842' FSL & 1205' FEL**
Bottomhole **Unit O (SWSE), 1315' FSL & 2055' FEL**
At top prod. Interval reported below **Same as above**
At total depth **Same as above**

10. Field and Pool or Exploratory: **Blanco Mesaverde**

11. Sec., T., R., M., on Block and Survey or Area: **Sec. 17, T27N, R07W**

12. County or Parish: **Rio Arriba**

13. State: **New Mexico**

14. Date Spudded: **3/8/2013**

15. Date T.D. Reached: **3/26/2013**

16. Date Completed: ☐ D & A ☒ Ready to Prod. **8/5/2018**

17. Elevations (DF, RKB, RT, GL)*: **6597'**

18. Total Depth: **7735' MD / 7582' TVD**

19. Plug Back T.D.: **7708' MD / 7555' TVD**

20. Depth Bridge Plug Set: MD / TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

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 Cement | Slurry Vol. (BBL) | Cement top* | Amount Pulled |
|---|---|---|---|---|---|---|---|---|---|
| 12-1/4" | 9 5/8" H-40 | 32.3# | 0 | 349' | n/a | 101 sx | 29 bbl | Surf | 6 bbls |
| 8-3/4" | 7" J-55 | 23# | 0 | 4830' | n/a | 659 sx | 236 bbl | Surf | 100 bbls |
| 6-1/4" | 4 1/2" L-80 | 11.6# | 0 | 7731' | n/a | 212 sx | 76 bbl | 380' | none |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

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" | 7634' | | | | | | | |

25. Producing Intervals / 26. Perforation Record

| | Formation | Top | Bottom | Perforated Interval | Size | No. Holes | Perf. Status |
|---|---|---|---|---|---|---|---|
| A) | Point Lookout | 5395 | 5612 | 1 SPF | .34" | 25 | open |
| B) | Menefee | 5039 | 5308 | 1 SPF | .34" | 24 | open |
| C) | | | | | | | |
| D) | TOTAL | | | | | 49 | |

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

| Depth Interval | Amount and Type of Material |
|---|---|
| 5395-5612 | Acidized w/500 Gal 15% HCL, frac'd w/211,000# 20/40 AZ sand / 111,020 Gal 70Q 20# water gel foam / 1.13M SCF N2 |
| 5039-5308 | Acidized w/500 Gal 15% HCL, frac'd w/207,000# 20/40 AZ sand / 95,640 Gal 65Q 20# water gel foam / 1.32M SCF N2 |
| | |
| | |

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 |
|---|---|---|---|---|---|---|---|---|---|
| 8/6/2018 | 8/6/2018 | 1 | → | 0 | 162 | 0 | n/a | n/a | Vented |

| Choke Size | Tbg. Press. SI | Csg. Press Flowing | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas/Oil Ratio | Well Status |
|---|---|---|---|---|---|---|---|---|
| 2.5" | 540 | 670 | → | 0 | 7 | | n/a | Flowing |

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. SI | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas/Oil Ratio | Well Status |
|---|---|---|---|---|---|---|---|---|
| | | | → | | | | | |

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

NMOCD

SEP 07 2018
DISTRICT III
ACCEPTED FOR RECORD

SEP 06 2018
FARMINGTON FIELD OFFICE
By: William Tambekou

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 *(Solid, used for fuel, vented, etc.)*

**Vented**

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem test, 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 |
|---|---|---|---|---|---|
| Ojo Alamo | 2254' | 2398' | White, cr-gr ss | Ojo Alamo | 2254' |
| Kirltand | 2398' | 2870' | Gry sh interbedded w/tight, gry, fine-gr ss. | Kirtland | 2398' |
| Fruitland | 2870' | 3148' | Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss. | Fruitland | 2870' |
| Pictured Cliffs | 3148' | 3288' | Bn-Gry, fine grn, tight ss. | Pictured Cliffs | 3148' |
| Lewis | 3288' | 4110' | Shale w/ siltstone stingers | Lewis | 3288' |
| Chacra | 4110' | 4848' | Gry fn grn silty, glauconitic sd stone w/ drk gry shale | Chacra | 4110' |
| Mesa Verde | 4848' | 4864' | Light gry, med-fine gr ss, carb sh & coal | Mesaverde | 4848' |
| Menefee | 4864' | 5446' | Med-dark gry, fine gr ss, carb sh & coal | Menefee | 4864' |
| Point Lookout | 5446' | 5803' | Med-light gry, very fine gr ss w/ frequent sh breaks in lower part of formation | Point Lookout | 5446' |
| Mancos | 5803' | 6605' | Dark gry carb sh. | Mancos | 5803' |
| Gallup | 6605' | 7379' | Lt. gry to brn calc carb micac gluac silts & very fine gry gry ss w/ irreg. interbed sh. | Gallup | 6605' |
| Greenhorn | 7379' | 7439' | Highly calc gry sh w/ thin lmst. | Greenhorn | 7379' |
| Graneros | 7439' | 7494' | Dk gry shale, fossil & carb w/ pyrite incl. | Graneros | 7439' |
| Dakota | 7494' | | Lt to dark gry foss carb sl calc sl sitty ss w/ pyrite incl thin sh bands cly Y shale breaks | Dakota | 7494' |

32. Additional remarks (include plugging procedure):

**The well is now producing as a commingled MV/MC/DK well under DHC #4014AZ.**

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

☐ Electrical/Mechanical Logs (1 full set req'd.) ☐ 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)* **Cherylene Weston** Title **Operations/Regulatory Technician-Sr.**

Signature Cherylene Weston Date 8-30-18

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.

(Continued on page 3)

Form 3160-4
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
AUG 17 2018
Farmington Field Office
Bureau of Land Management

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2018

# WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.: NMSF-078640

1a. Type of Well: [ ] Oil Well [X] Gas Well [ ] Dry [ ] Other
b. Type of Completion: [ ] New Well [ ] Work Over [ ] Deepen [ ] Plug Back [X] Diff. Resvr.,
Other: RECOMPLETE

6. If Indian, Allottee or Tribe Name:

7. Unit or CA Agreement Name and No.: San Juan 28-7 Unit

2. Name of Operator: Hilcorp Energy Company

8. Lease Name and Well No.: San Juan 28-7 Unit 154F

3. Address: 382 Road 3100, Aztec, NM 87410

3a. Phone No. *(include area code)*: (505) 599-3400

9. API Well No.: 30-039-31145

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

At surface: Unit P (SESE), 842' FSL & 1205' FEL
Bottomhole: Unit O (SWSE), 1315' FSL & 2055' FEL

At top prod. Interval reported below: Same as above

At total depth: Same as above

10. Field and Pool or Exploratory: Blanco Mesaverde

11. Sec., T., R., M., on Block and Survey or Area: Sec. 17, T27N, R07W

12. County or Parish: Rio Arriba

13. State: New Mexico

14. Date Spudded: 3/8/2013

15. Date T.D. Reached: 3/26/2013

16. Date Completed: 8/5/2018 [ ] D & A [X] Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*: 6597'

18. Total Depth: 7735' MD / 7582' TVD

19. Plug Back T.D.: 7708' MD / 7555' TVD

20. Depth Bridge Plug Set: MD / TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

22. Was well cored? [X] No [ ] Yes (Submit analysis)
Was DST run? [X] No [ ] Yes (Submit report)
Directional Survey? [X] 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 Cement | Slurry Vol. (BBL) | Cement top* | Amount Pulled |
|---|---|---|---|---|---|---|---|---|---|
| 12-1/4" | 9 5/8" H-40 | 32.3# | 0 | 349' | n/a | 101 sx | 29 bbl | Surf | 6 bbls |
| 8-3/4" | 7" J-55 | 23# | 0 | 4830' | n/a | 659 sx | 236 bbl | Surf | 100 bbls |
| 6-1/4" | 4 1/2" L-80 | 11.6# | 0 | 7731' | n/a | 212 sx | 76 bbl | 380' | none |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

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" | 7634' | | | | | | | |

25. Producing Intervals / 26. Perforation Record

| | Formation | Top | Bottom | Perforated Interval | Size | No. Holes | Perf. Status |
|---|---|---|---|---|---|---|---|
| A) | Point Lookout | 5395 | 5612 | 1 SPF | .34" | 25 | open |
| B) | Menefee | 5039 | 5308 | 1 SPF | .34" | 24 | open |
| C) | | | | | | | |
| D) | TOTAL | | | | | 49 | |

ACCEPTED FOR RECORD

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

| Depth Interval | Amount and Type of Material |
|---|---|
| 5395-5612 | Acidized w/500 Gal 15% HCL, frac'd w/211,000# 20/40 AZ sand / 111,020 Gal 70Q 20# water gel foam / 1.13M SCF N2 |
| 5039-5308 | Acidized w/500 Gal 15% HCL, frac'd w/207,000# 20/40 AZ sand / 95,640 Gal 65Q 20# water gel foam / 1.32M SCF N2 |
| | |
| | |

AUG 31 2018
FARMINGTON FIELD OFFICE
By:

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 |
|---|---|---|---|---|---|---|---|---|---|
| 8/6/2018 | 8/6/2018 | 1 | → | 0 | 162 | 0 | n/a | n/a | Vented |

| Choke Size | Tbg. Press. SI | Csg. Press Flowing | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas/Oil Ratio | Well Status |
|---|---|---|---|---|---|---|---|---|
| 2.5" | 540 | 670 | → | 0 | 7 | | n/a | Flowing |

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. SI | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas/Oil Ratio | Well Status |
|---|---|---|---|---|---|---|---|---|
| | | | → | | | | | |

NMOCD
SEP 06 2018
DISTRICT III

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

NMOCD

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 *(Solid, used for fuel, vented, etc.)*

**Vented**

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem test, 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 |
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| Lewis | 3288' | 3453' | Shale w/ siltstone stingers | Lewis | 3288' |
| Huerfanito Bentonite | 3453' | 4110' | Huerfanito Bentonite | | 3453' |
| Chacra | 4110' | 4848' | Gry fn grn silty, glauconitic sd stone w/ drk gry shale | Chacra | 4110' |
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Name *(please print)* Cherylene Weston Title Operations/Regulatory Technician-Sr.

Signature Cherylene Weston Date 8-17-18

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(Continued on page 3)