

District I  
1625 N. French Dr., Santa Fe, NM 87505  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

NM OIL CONSERVATION  
ARTESIA DISTRICT  
FEB 17 2016  
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NM OIL CONSERVATION  
ARTESIA DISTRICT  
FEB 17 2016  
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State of New Mexico  
Energy, Minerals & Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-104  
Revised August 1, 2011  
Submit one copy to appropriate District Office  
AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

|                                                                                                                    |                                              |                                                          |
|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------|
| 1 Operator name and Address<br>Devon Energy Production Company, L.P.<br>333 West Sheridan, Oklahoma City, OK 73102 |                                              | 2 OGRID Number<br>6137                                   |
|                                                                                                                    |                                              | 3 Reason for Filing Code/ Effective Date<br>NW / 1/24/16 |
| 4 API Number<br>30-015-42346                                                                                       | 5 Pool Name<br>Hackberry; Bone Spring, North | 6 Pool Code<br>97056                                     |
| 7 Property Code<br>40320                                                                                           | 8 Property Name<br>Hadar 10 Fed Com          | 9 Well Number<br>2H                                      |

II. 10 Surface Location

|                    |               |                 |              |         |                       |                           |                     |                        |                |
|--------------------|---------------|-----------------|--------------|---------|-----------------------|---------------------------|---------------------|------------------------|----------------|
| UL or lot no.<br>E | Section<br>11 | Township<br>19S | Range<br>31E | Lot Idn | Feet from the<br>1930 | North/South line<br>North | Feet from the<br>50 | East/West line<br>West | County<br>Eddy |
|--------------------|---------------|-----------------|--------------|---------|-----------------------|---------------------------|---------------------|------------------------|----------------|

11 Bottom Hole Location

|                    |                               |                                   |                        |         |                         |                           |                          |                        |                |
|--------------------|-------------------------------|-----------------------------------|------------------------|---------|-------------------------|---------------------------|--------------------------|------------------------|----------------|
| UL or lot no.<br>E | Section<br>10                 | Township<br>19S                   | Range<br>31E           | Lot Idn | Feet from the<br>2275   | North/South line<br>North | Feet from the<br>280     | East/West line<br>West | County<br>Eddy |
| 12 Lse Code<br>F   | 13 Producing Method Code<br>P | 14 Gas Connection Date<br>1/24/16 | 15 C-129 Permit Number |         | 16 C-129 Effective Date |                           | 17 C-129 Expiration Date |                        |                |

III. Oil and Gas Transporters

|                      |                                                                 |          |
|----------------------|-----------------------------------------------------------------|----------|
| 18 Transporter OGRID | 19 Transporter Name and Address                                 | 20 O/G/W |
| 278421               | Holly-Frontier<br>10 Desta Drive, Ste 350W Midland, TX 79710    | Oil      |
| 036785               | DCP Midstream<br>P.O. Box 50020 Midland, TX 79710-0020          | Gas      |
| 174238               | Enterprise<br>201 Park Avenue, Ste 1600 Oklahoma City, OK 73102 | Oil      |
|                      |                                                                 |          |
|                      |                                                                 |          |

IV. Well Completion Data

|                         |                          |                                    |              |                                   |                                             |
|-------------------------|--------------------------|------------------------------------|--------------|-----------------------------------|---------------------------------------------|
| 21 Spud Date<br>4/6/15  | 22 Ready Date<br>1/24/16 | 23 TD<br>13775'                    | 24 PBTD<br>0 | 25 Perforations<br>9278' - 13703' | 26 DHC, MC                                  |
| 27 Hole Size<br>17-1/2" |                          | 28 Casing & Tubing Size<br>13-3/8" |              | 29 Depth Set<br>745'              | 30 Sacks Cement<br>805 sx CIC; Circ 46 bbls |
| 12-1/4"                 |                          | 9-5/8"                             |              | 4320'                             | 1620 CIP0Z 60/40/0/C; Circ 134 bbls         |
| 8-3/4"                  |                          | 7" & 5-1/2"                        |              | 13,775'                           | 1825 CIH; Circ 0                            |
|                         |                          | Tubing: 2-7/8" & 3-1/2"            |              | 8531'                             |                                             |

V. Well Test Data

|                           |                                |                        |                          |                             |                             |
|---------------------------|--------------------------------|------------------------|--------------------------|-----------------------------|-----------------------------|
| 31 Date New Oil<br>2/3/16 | 32 Gas Delivery Date<br>2/3/16 | 33 Test Date<br>2/3/16 | 34 Test Length<br>24 hrs | 35 Tbg. Pressure<br>331 psi | 36 Csg. Pressure<br>115 psi |
| 37 Choke Size             | 38 Oil<br>245 bbl              | 39 Water<br>1179 bbl   | 40 Gas<br>116.8 mcf      |                             | 41 Test Method              |

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.  
Signature: *Rebecca Deal*  
Printed name: Rebecca Deal  
Title: Regulatory Compliance Analyst  
E-mail Address: rebecca.deal@dmv.com  
Date: 2/15/2016

Phone:

OIL CONSERVATION DIVISION  
Approved by: *RDado*  
Title: *Dist. H. Spencer*  
Approval Date: *2-17-16*  
Pending BLM approvals will subsequently be reviewed and scanned *DS*

Provide signature page for Survey

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED  
OAB NO. 1004-0137  
Expires: July 31, 2010

5. Lease Serial No. BHL: NMNM98186

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other  
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resrv.  
Other: \_\_\_\_\_

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator  
Devon Energy Production Company, L.P.

8. Lease Name and Well No.  
Hadar 10 Fed Com 2H

3. Address 333 West Sheridan Ave, Oklahoma City, OK 73102  
3a. Phone No. (include area code) 405-228-4248

9. AFI Well No.  
30-015-42346

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

10. Field and Pool or Exploratory  
Hackberry, Bone Spring, North

11. Sec., T., R., M., on Block and  
Survey or Area  
Sec 11, T19S, R31E

12. County or Parish Eddy  
13. State NM

At surface 1930' FNL & 50' FWL Unit E, Sec 11, T19S, R31E

At top prod. interval reported below

At total depth 2275' FNL & 280' FWL Unit E, Sec 10, T19S, R31E

14. Date Spudded 4/6/15  
15. Date T.D. Reached 4/23/15  
16. Date Completed 1/24/16  
☐ D & A ☒ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
GL: 3578.6'

18. Total Depth: MD 13775'  
TVD 8906.55'  
19. Plug Back T.D.: MD  
TVD  
20. Depth Bridge Plug Set: MD  
TVD

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

GR CCL CBL

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 |
|-----------|-------------------|-------------|----------|-------------|----------------------|------------------------------|------------------|-------------|---------------|
| 17-1/2"   | 13-3/8" J-55      | 68#         | 0        | 745'        |                      | 805 sx CIC                   |                  | 0           | 46 bbls       |
| 12-1/4"   | 9-5/8" HCK-55     | 40#         | 0        | 4320'       |                      | 1620 CPOZ 60/40/0/C          |                  | 0           | 134 bbls      |
| 8-3/4"    | 7" & 5-1/2" P-110 | 29# & 17#   | 0        | 13,775'     |                      | 1825 CIH                     |                  | 0           |               |

24. Tubing Record

| Size           | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) |
|----------------|----------------|-------------------|------|----------------|-------------------|------|----------------|-------------------|
| -7/8" & 3-1/2" | 8531'          |                   |      |                |                   |      |                |                   |

25. Producing Intervals

| Formation      | Top   | Bottom | Perforated Interval | Size | No. Holes | Perf. Status |
|----------------|-------|--------|---------------------|------|-----------|--------------|
| A) Bone Spring | 9278' | 13703' | 9278' - 13703'      |      | 640       | open         |
| B)             |       |        |                     |      |           |              |
| C)             |       |        |                     |      |           |              |
| D)             |       |        |                     |      |           |              |

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

| Depth Interval | Amount and Type of Material                    |
|----------------|------------------------------------------------|
| 9278' - 13703' | 4914 gals 15% HCL Acid, 6,698,000# 20/40 White |

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 |
|---------------------|----------------------|----------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
| 1/24/16             | 2/3/16               | 24             | →               | 245     | 116.8   | 1179      |                       |             | Pump              |
| Choke Size          | Tbg. Press. Flwg. SI | Csg. Press. SI | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas-Oil Ratio         | Well Status |                   |
|                     | 331psi               | 115psi         | →               |         |         |           | 476.735               |             |                   |

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

Pending BLM approvals will  
subsequently be reviewed  
and scanned

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

## 28b. Production - Interval C

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

## 28c. Production - Interval D

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

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

SOLD

## 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                             |
|-------------|-------|--------|------------------------------|---------------------------------------------|---------------------------------|
|             |       |        |                              |                                             | Meas. Depth                     |
| Bone Spring | 6790' |        |                              | Rustler<br>Yates<br>Delaware<br>Bone Spring | 670'<br>2500'<br>4790'<br>6790' |

32. Additional remarks (include plugging procedure):

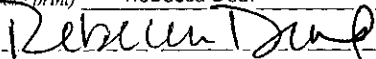
33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☒ Electrical/Mechanical Logs (1 full set 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) Rebecca DealTitle Regulatory Compliance Analyst

Signature

Date 2/15/2016

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, page 2)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

5. Lease Serial No. **BHL: NMNM98186**

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE – Other instructions on page 2.**

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.  
**Hadar 10 Fed Com 2H**

2. Name of Operator  
**Devon Energy Production Company, L.P.**

9. API Well No.  
**30-015-42346**

3a. Address  
**333 West Sheridan, Oklahoma City, OK 73102**

3b. Phone No. (include area code)  
**405-228-4248**

10. Field and Pool or Exploratory Area  
**Hackberry; Bone Spring, North**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**1930' FNL & 50' FWL Unit E, Sec 11, T19S, R31E**  
**2275' FNL & 280' FWL Unit E, Sec 10, T19S, R31E**

**PP: 2100' FNL & 15' FEL**

11. Country or Parish, State  
**Eddy, NM**

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

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

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BLA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

11/23/15-1/24/16: MIRU WL & PT. TIH & ran GR CCL CBL, found ETOC @ 1210'. Tested csg, see attached MIT. TIH w/pump through frac plug : 9278'-13,703', total 640 holes. Frac'd 9278'-13,703' in 16 stages. Frac totals 4914 gals 15% HCL Acid, 6,698,000# 20/40 White. ND frac, MIRU PU, NU BOP, DO plugs & CO to FC @ 13,727'. CHC, FWB, ND BOP. RIH w/251 jts 2-7/8" L-80 tbg & 10 jts 3-1/2" L-80 tbg, set @ 8531'. TOP.

**NM OIL CONSERVATION**  
ARTESIA DISTRICT  
**FEB 16 2016**

**RECEIVED**

14. I hereby certify that the foregoing is true and correct.  
Name (Printed/Typed)  
**Rebecca Deal**

Title **Regulatory Compliance Analyst**

Signature

*Rebecca Deal*

Date **2/15/2016**

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

Approved by

Title

Office

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

**Pending BLM approvals will  
subsequently be reviewed  
and scanned**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and fictitious or fraudulent statements or representations as to any matter within its jurisdiction

... the United States any false.

(Instructions on page 2)



Well Name: HADAR 10 FED COM 2H

|                                                        |           |                              |         |                                   |         |                                    |          |                                   |             |                                  |  |                       |  |
|--------------------------------------------------------|-----------|------------------------------|---------|-----------------------------------|---------|------------------------------------|----------|-----------------------------------|-------------|----------------------------------|--|-----------------------|--|
| Sub-Division<br>DELAWARE BASIN WEST                    |           | Region<br>SLOPE EAST         |         | Field Name<br>HACKBERRY           |         |                                    |          | State/Province<br>NM              |             |                                  |  |                       |  |
| Surface Legal Location<br>Sec 11 19S R31E              |           | API/UWI<br>3001542346        |         | Latitude (°)<br>32° 40' 36.954" N |         | Longitude (°)<br>103° 50' 54.51" W |          | Ong KB Elevation (ft)<br>3,603.60 |             | Ground Elev MSL (ft)<br>3,578.60 |  | KB - GL (ft)<br>25.00 |  |
| Wellbores                                              |           |                              |         |                                   |         |                                    |          |                                   |             |                                  |  |                       |  |
| Wellbore Name<br>OH                                    |           | Parent Wellbore              |         |                                   |         | SAP Well ID<br>38221               |          |                                   |             | Vertical Section Direction (°)   |  |                       |  |
| Kick Offs & Key Depths                                 |           |                              |         |                                   |         |                                    |          |                                   |             |                                  |  |                       |  |
| Date<br>4/17/2015                                      |           |                              |         | Type<br>Kick Off                  |         |                                    |          | Top Depth (ftKB)<br>8,539.0       |             |                                  |  |                       |  |
| Actual Deviation Survey<br>NOV-FLO DRIFT, Proposed? No |           |                              |         | Definitive?<br>No                 |         | Proposed?<br>No                    |          | Proposed Deviation Survey         |             |                                  |  |                       |  |
| Deviation Survey                                       |           |                              |         |                                   |         |                                    |          |                                   |             |                                  |  |                       |  |
| Date<br>4/6/2015                                       |           | Description<br>NOV-FLO DRIFT |         |                                   |         |                                    |          |                                   |             |                                  |  |                       |  |
| MD Tie In (ftKB)                                       |           | TVD Tie In (ftKB)            |         | Inclination Tie In (°)            |         | Azimuth Tie In (°)                 |          | NSTie In (ft)                     |             | EWTie In (ft)                    |  |                       |  |
| Survey Data                                            |           |                              |         |                                   |         |                                    |          |                                   |             |                                  |  |                       |  |
| Date                                                   | MD (ftKB) | Incl (°)                     | Azm (°) | TVD (ftKB)                        | VS (ft) | N/S (ft)                           | E/W (ft) | DLS (°/100ft)                     | Survey Tool | Survey Company                   |  |                       |  |
| 4/6/2015                                               | 163.00    | 0.43                         | 259.68  | 163.00                            | 0.61    | -0.11                              | -0.60    | 0.26                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/6/2015                                               | 192.00    | 0.45                         | 231.50  | 192.00                            | 0.81    | -0.20                              | -0.80    | 0.74                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/6/2015                                               | 370.00    | 0.46                         | 249.87  | 369.99                            | 2.07    | -0.88                              | -2.02    | 0.08                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/6/2015                                               | 430.00    | 0.51                         | 262.23  | 429.99                            | 2.57    | -1.00                              | -2.51    | 0.19                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/6/2015                                               | 489.00    | 0.64                         | 267.49  | 488.99                            | 3.16    | -1.05                              | -3.10    | 0.24                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/6/2015                                               | 533.00    | 0.62                         | 278.54  | 532.98                            | 3.64    | -1.03                              | -3.58    | 0.28                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/6/2015                                               | 614.00    | 0.55                         | 268.71  | 613.98                            | 4.46    | -0.97                              | -4.40    | 0.15                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/6/2015                                               | 707.00    | 0.34                         | 229.48  | 706.98                            | 5.13    | -1.16                              | -5.05    | 0.39                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/9/2015                                               | 892.00    | 0.49                         | 250.22  | 891.97                            | 6.33    | -1.78                              | -6.22    | 0.11                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/9/2015                                               | 983.00    | 0.31                         | 279.82  | 982.97                            | 6.94    | -1.87                              | -6.83    | 0.29                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/9/2015                                               | 1,076.00  | 0.35                         | 277.87  | 1,075.97                          | 7.47    | -1.79                              | -7.35    | 0.04                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/9/2015                                               | 1,167.00  | 0.27                         | 285.70  | 1,166.97                          | 7.94    | -1.69                              | -7.84    | 0.10                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/9/2015                                               | 1,258.00  | 0.20                         | 289.05  | 1,257.97                          | 8.29    | -1.58                              | -8.19    | 0.08                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/9/2015                                               | 1,351.00  | 0.07                         | 198.93  | 1,350.97                          | 8.46    | -1.59                              | -8.36    | 0.23                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/9/2015                                               | 1,442.00  | 0.07                         | 179.68  | 1,441.97                          | 8.48    | -1.69                              | -8.38    | 0.03                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/9/2015                                               | 1,537.00  | 0.27                         | 53.35   | 1,536.97                          | 8.30    | -1.62                              | -8.20    | 0.33                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/9/2015                                               | 1,633.00  | 0.37                         | 57.14   | 1,632.96                          | 7.84    | -1.31                              | -7.76    | 0.11                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/9/2015                                               | 1,728.00  | 0.28                         | 81.14   | 1,727.96                          | 7.34    | -1.11                              | -7.27    | 0.17                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/9/2015                                               | 1,823.00  | 0.39                         | 60.24   | 1,822.96                          | 6.81    | -0.92                              | -6.76    | 0.17                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/9/2015                                               | 1,917.00  | 0.62                         | 81.40   | 1,916.96                          | 6.02    | -0.68                              | -5.98    | 0.31                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/9/2015                                               | 2,013.00  | 0.49                         | 66.56   | 2,012.95                          | 5.11    | -0.44                              | -5.09    | 0.20                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/9/2015                                               | 2,108.00  | 0.44                         | 59.67   | 2,107.95                          | 4.40    | -0.09                              | -4.41    | 0.08                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/9/2015                                               | 2,203.00  | 0.74                         | 82.59   | 2,202.95                          | 3.46    | 0.17                               | -3.48    | 0.40                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/9/2015                                               | 2,298.00  | 0.68                         | 58.22   | 2,297.94                          | 2.35    | 0.54                               | -2.39    | 0.32                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/9/2015                                               | 2,392.00  | 0.65                         | 81.43   | 2,391.93                          | 1.32    | 0.92                               | -1.39    | 0.29                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/10/2015                                              | 2,488.00  | 0.63                         | 75.52   | 2,487.93                          | 0.26    | 1.13                               | -0.34    | 0.07                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/10/2015                                              | 2,583.00  | 0.45                         | 65.16   | 2,582.92                          | -0.60   | 1.42                               | 0.50     | 0.21                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/10/2015                                              | 2,679.00  | 0.31                         | 123.46  | 2,678.92                          | -1.16   | 1.43                               | 1.06     | 0.41                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/10/2015                                              | 2,774.00  | 0.50                         | 111.78  | 2,773.92                          | -1.74   | 1.14                               | 1.66     | 0.22                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/10/2015                                              | 2,869.00  | 0.56                         | 129.27  | 2,868.91                          | -2.45   | 0.69                               | 2.40     | 0.18                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/10/2015                                              | 2,965.00  | 0.65                         | 109.00  | 2,964.91                          | -3.29   | 0.22                               | 3.28     | 0.24                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/10/2015                                              | 3,060.00  | 0.50                         | 113.99  | 3,059.90                          | -4.15   | -0.13                              | 4.17     | 0.17                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/10/2015                                              | 3,156.00  | 0.46                         | 149.50  | 3,155.90                          | -4.69   | -0.63                              | 4.75     | 0.31                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/10/2015                                              | 3,251.00  | 0.63                         | 118.09  | 3,250.90                          | -5.30   | -1.20                              | 5.40     | 0.36                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/10/2015                                              | 3,347.00  | 0.57                         | 109.20  | 3,346.89                          | -6.19   | -1.61                              | 6.32     | 0.12                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/10/2015                                              | 3,442.00  | 0.23                         | 98.74   | 3,441.89                          | -6.80   | -1.79                              | 6.95     | 0.36                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/10/2015                                              | 3,537.00  | 0.42                         | 117.15  | 3,536.89                          | -7.29   | -1.98                              | 7.45     | 0.23                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/10/2015                                              | 3,632.00  | 0.34                         | 106.30  | 3,631.89                          | -7.85   | -2.22                              | 8.03     | 0.11                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/10/2015                                              | 3,727.00  | 0.40                         | 110.77  | 3,726.88                          | -8.41   | -2.42                              | 8.61     | 0.07                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/11/2015                                              | 3,822.00  | 0.25                         | 103.15  | 3,821.88                          | -8.91   | -2.58                              | 9.12     | 0.16                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/11/2015                                              | 3,918.00  | 0.36                         | 109.73  | 3,917.88                          | -9.39   | -2.73                              | 9.61     | 0.12                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/11/2015                                              | 4,013.00  | 0.23                         | 112.59  | 4,012.88                          | -9.83   | -2.91                              | 10.07    | 0.14                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/11/2015                                              | 4,108.00  | 0.32                         | 120.38  | 4,107.88                          | -10.22  | -3.11                              | 10.47    | 0.10                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/11/2015                                              | 4,202.00  | 0.31                         | 121.48  | 4,201.88                          | -10.64  | -3.38                              | 10.92    | 0.01                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/11/2015                                              | 4,243.00  | 0.29                         | 95.32   | 4,242.88                          | -10.84  | -3.45                              | 11.12    | 0.33                              | MWD         | NOV FLOW DRIFT                   |  |                       |  |
| 4/11/2015                                              | 4,431.00  | 0.31                         | 155.67  | 4,430.87                          | -11.48  | -3.95                              | 11.80    | 0.16                              | MWD         | WEATHERFORD                      |  |                       |  |
| 4/15/2015                                              | 4,478.00  | 0.95                         | 182.74  | 4,477.87                          | -11.48  | -4.46                              | 11.83    | 1.47                              | MWD         | WEATHERFORD                      |  |                       |  |
| 4/15/2015                                              | 4,573.00  | 2.17                         | 185.66  | 4,572.83                          | -11.08  | -7.04                              | 11.62    | 1.29                              | MWD         | WEATHERFORD                      |  |                       |  |
| 4/15/2015                                              | 4,669.00  | 3.38                         | 193.33  | 4,668.72                          | -9.92   | -11.60                             | 10.79    | 1.32                              | MWD         | WEATHERFORD                      |  |                       |  |
| 4/15/2015                                              | 4,764.00  | 4.36                         | 197.78  | 4,763.50                          | -7.73   | -17.76                             | 9.04     | 1.08                              | MWD         | WEATHERFORD                      |  |                       |  |
| 4/15/2015                                              | 4,859.00  | 4.97                         | 203.38  | 4,858.19                          | -4.47   | -24.98                             | 6.30     | 0.80                              | MWD         | WEATHERFORD                      |  |                       |  |
| 4/15/2015                                              | 4,955.00  | 4.65                         | 206.82  | 4,953.85                          | -0.55   | -32.27                             | 2.90     | 0.45                              | MWD         | WEATHERFORD                      |  |                       |  |
| 4/15/2015                                              | 5,050.00  | 4.23                         | 205.44  | 5,048.56                          | 3.16    | -38.87                             | -0.35    | 0.46                              | MWD         | WEATHERFORD                      |  |                       |  |
| 4/15/2015                                              | 5,146.00  | 4.11                         | 209.86  | 5,144.31                          | 6.84    | -45.05                             | -3.58    | 0.36                              | MWD         | WEATHERFORD                      |  |                       |  |
| 4/15/2015                                              | 5,241.00  | 4.08                         | 207.48  | 5,239.07                          | 10.51   | -51.00                             | -6.84    | 0.18                              | MWD         | WEATHERFORD                      |  |                       |  |
| 4/15/2015                                              | 5,336.00  | 3.88                         | 206.54  | 5,333.84                          | 13.93   | -56.87                             | -9.83    | 0.22                              | MWD         | WEATHERFORD                      |  |                       |  |
| 4/15/2015                                              | 5,431.00  | 3.70                         | 206.40  | 5,428.63                          | 17.13   | -62.49                             | -12.63   | 0.19                              | MWD         | WEATHERFORD                      |  |                       |  |
| 4/15/2015                                              | 5,526.00  | 4.46                         | 206.66  | 5,523.39                          | 20.58   | -68.54                             | -15.65   | 0.80                              | MWD         | WEATHERFORD                      |  |                       |  |
| 4/15/2015                                              | 5,622.00  | 5.14                         | 207.87  | 5,619.05                          | 24.77   | -75.68                             | -19.34   | 0.72                              | MWD         | WEATHERFORD                      |  |                       |  |
| 4/15/2015                                              | 5,716.00  | 5.21                         | 208.09  | 5,712.67                          | 29.28   | -83.17                             | -23.31   | 0.08                              | MWD         | WEATHERFORD                      |  |                       |  |
| 4/15/2015                                              | 5,811.00  | 5.00                         | 208.57  | 5,807.29                          | 33.82   | -90.61                             | -27.32   | 0.23                              | MWD         | WEATHERFORD                      |  |                       |  |
| 4/15/2015                                              | 5,907.00  | 4.96                         | 211.95  | 5,902.93                          | 38.53   | -97.80                             | -31.52   | 0.31                              | MWD         | WEATHERFORD                      |  |                       |  |
| 4/15/2015                                              | 6,001.00  | 4.76                         | 210.76  | 5,996.59                          | 43.15   | -104.60                            | -35.67   | 0.24                              | MWD         | WEATHERFORD                      |  |                       |  |
| 4/15/2015                                              | 6,096.00  | 4.61                         | 211.76  | 6,091.27                          | 47.65   | -111.23                            | -39.69   | 0.18                              | MWD         | WEATHERFORD                      |  |                       |  |
| 4/15/2015                                              | 6,192.00  | 4.72                         | 213.78  | 6,186.96                          | 52.34   | -117.80                            | -43.92   | 0.21                              | MWD         | WEATHERFORD                      |  |                       |  |
| 4/15/2015                                              | 6,287.00  | 4.87                         | 207.70  | 6,281.62                          | 56.87   | -124.62                            | -47.97   | 0.56                              | MWD         | WEATHERFORD                      |  |                       |  |

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Well Name: HADAR 10 FED COM 2H

|                                           |           |                       |                                   |                                    |          |          |                                    |                  |                                  |                       |
|-------------------------------------------|-----------|-----------------------|-----------------------------------|------------------------------------|----------|----------|------------------------------------|------------------|----------------------------------|-----------------------|
| Sub-Division<br>DELAWARE BASIN WEST       |           | Region<br>SLOPE EAST  |                                   | Field Name<br>HACKBERRY            |          |          | County<br>EDDY                     |                  | State/Province<br>NM             |                       |
| Surface Legal Location<br>Sec 11 19S R31E |           | API/UWI<br>3001542346 | Latitude (")<br>32° 40' 36.954" N | Longitude (")<br>103° 50' 54.51" W |          |          | Orig KB Elevation (ft)<br>3,603.60 |                  | Ground Elev MSL (ft)<br>3,578.60 | KB - GL (ft)<br>25.00 |
| Survey Data                               |           |                       |                                   |                                    |          |          |                                    |                  |                                  |                       |
| Date                                      | MD (ftKB) | Incl (")              | Azm (")                           | TVD (ftKB)                         | VS (ft)  | N/S (ft) | E/W (ft)                           | DLS<br>("/100ft) | Survey<br>Tool                   | Survey Company        |
| 4/21/2015                                 | 11,582.00 | 94.12                 | 270.22                            | 9,034.94                           | 2,883.05 | -341.37  | -2,865.85                          | 0.31             | MWD                              | WEATHERFORD           |
| 4/21/2015                                 | 11,677.00 | 93.71                 | 270.48                            | 9,028.45                           | 2,977.54 | -340.79  | -2,960.62                          | 0.51             | MWD                              | WEATHERFORD           |
| 4/21/2015                                 | 11,772.00 | 94.13                 | 270.73                            | 9,021.96                           | 3,071.99 | -339.79  | -3,055.40                          | 0.51             | MWD                              | WEATHERFORD           |
| 4/21/2015                                 | 11,867.00 | 94.62                 | 270.11                            | 9,014.71                           | 3,166.41 | -339.09  | -3,150.12                          | 0.83             | MWD                              | WEATHERFORD           |
| 4/21/2015                                 | 11,962.00 | 93.50                 | 268.91                            | 9,007.98                           | 3,260.97 | -339.90  | -3,244.87                          | 1.73             | MWD                              | WEATHERFORD           |
| 4/21/2015                                 | 12,058.00 | 93.43                 | 268.96                            | 9,002.18                           | 3,356.66 | -341.69  | -3,340.68                          | 0.09             | MWD                              | WEATHERFORD           |
| 4/21/2015                                 | 12,153.00 | 90.21                 | 269.27                            | 8,999.16                           | 3,451.44 | -343.15  | -3,435.61                          | 3.41             | MWD                              | WEATHERFORD           |
| 4/21/2015                                 | 12,249.00 | 89.86                 | 269.67                            | 8,999.10                           | 3,547.25 | -344.04  | -3,531.60                          | 0.55             | MWD                              | WEATHERFORD           |
| 4/21/2015                                 | 12,344.00 | 89.44                 | 270.60                            | 8,999.68                           | 3,641.98 | -343.82  | -3,626.60                          | 1.07             | MWD                              | WEATHERFORD           |
| 4/21/2015                                 | 12,440.00 | 92.87                 | 270.51                            | 8,997.75                           | 3,737.62 | -342.89  | -3,722.56                          | 3.57             | MWD                              | WEATHERFORD           |
| 4/21/2015                                 | 12,534.00 | 93.85                 | 270.23                            | 8,992.24                           | 3,831.17 | -342.28  | -3,816.40                          | 1.08             | MWD                              | WEATHERFORD           |
| 4/22/2015                                 | 12,630.00 | 93.92                 | 270.19                            | 8,985.74                           | 3,926.67 | -341.93  | -3,912.18                          | 0.08             | MWD                              | WEATHERFORD           |
| 4/22/2015                                 | 12,725.00 | 95.60                 | 270.14                            | 8,977.85                           | 4,021.07 | -341.66  | -4,006.84                          | 1.77             | MWD                              | WEATHERFORD           |
| 4/22/2015                                 | 12,819.00 | 96.59                 | 269.70                            | 8,967.87                           | 4,114.30 | -341.79  | -4,100.31                          | 1.15             | MWD                              | WEATHERFORD           |
| 4/22/2015                                 | 12,914.00 | 94.90                 | 269.42                            | 8,958.36                           | 4,208.62 | -342.51  | -4,194.83                          | 1.80             | MWD                              | WEATHERFORD           |
| 4/22/2015                                 | 13,010.00 | 94.90                 | 269.09                            | 8,950.16                           | 4,304.10 | -343.76  | -4,290.47                          | 0.34             | MWD                              | WEATHERFORD           |
| 4/22/2015                                 | 13,104.00 | 94.55                 | 269.13                            | 8,942.42                           | 4,397.63 | -345.21  | -4,384.14                          | 0.37             | MWD                              | WEATHERFORD           |
| 4/22/2015                                 | 13,200.00 | 91.82                 | 268.45                            | 8,937.09                           | 4,493.34 | -347.24  | -4,479.96                          | 2.93             | MWD                              | WEATHERFORD           |
| 4/22/2015                                 | 13,295.00 | 92.10                 | 268.27                            | 8,933.84                           | 4,588.20 | -349.95  | -4,574.86                          | 0.35             | MWD                              | WEATHERFORD           |
| 4/23/2015                                 | 13,390.00 | 93.15                 | 268.29                            | 8,929.49                           | 4,683.01 | -352.80  | -4,669.72                          | 1.11             | MWD                              | WEATHERFORD           |
| 4/23/2015                                 | 13,486.00 | 93.57                 | 268.05                            | 8,923.86                           | 4,778.76 | -355.86  | -4,765.51                          | 0.50             | MWD                              | WEATHERFORD           |
| 4/23/2015                                 | 13,581.00 | 93.57                 | 267.87                            | 8,917.94                           | 4,873.52 | -359.24  | -4,860.26                          | 0.19             | MWD                              | WEATHERFORD           |
| 4/23/2015                                 | 13,677.00 | 93.43                 | 267.43                            | 8,912.08                           | 4,969.29 | -363.17  | -4,956.00                          | 0.48             | MWD                              | WEATHERFORD           |
| 4/23/2015                                 | 13,695.00 | 93.22                 | 267.58                            | 8,911.04                           | 4,987.25 | -363.95  | -4,973.95                          | 1.43             | MWD                              | WEATHERFORD           |
| 4/23/2015                                 | 13,775.00 | 93.22                 | 267.58                            | 8,906.55                           | 5,067.09 | -367.32  | -5,053.76                          | 0.00             | BIT                              | WEATHERFORD           |

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