| Form 3160-5<br>(June 2015) DE  | UNITED STATES  | S<br>NTERIOR  | snad Fi  | ield ()   | FORM<br>OMB N<br>OMB N<br>Fanires: Li  | APPROVED<br>O. 1004-0137<br>anuary 31, 2018  |  |  |
|--|--|---|--|---|--|--|--|--|
| B<br>SUNDRY  | UREAU OF LAND MANA<br>NOTICES AND REPO   | .GEMENT ***   | ACD H  | Inhhs   | 5. Lease Serial No.<br>NMNM125057  |  |  |  |
| Do not use the<br>abandoned we   | is form for proposals to<br>II. Use form 3160-3 (AP  | drill or to re<br>D) for such p   | oropHOBB   | söci  | 6. If Indian, Allottee c   | or Tribe Name  |  |  |
| SUBMIT IN  | TRIPLICATE - Other inst  | tructions on  | page <sup>2</sup> JUN 1  | 3 2018  | 7. If Unit or CA/Agree<br>NMNM112723X  | ement, Name and/or No.   |  |  |
| 1. Type of Well<br>☐ Oil Well ☐ Gas Well 🔯 Oth   | ner: INJECTION   |   | REC  | EIVED   | 8. Well Name and No.<br>EAST BLINEBRY  | DRINKARD UNIT 17   |  |  |
| 2. Name of Operator<br>APACHE CORPORATION  | Contact:<br>E-Mail: Reesa.Fish   | REESA FISH<br>her@apacheco  | IER<br>rp.com  |   | <ol> <li>API Well No.</li> <li>30-025-06478-0</li> </ol>   | 0-\$3  |  |  |
| 3a. Address<br>303 VETERANS AIRPARK LA<br>MIDLAND, TX 79705  | ANE SUITE 3000   | 3b. Phone No<br>Ph: 432-81  | . (include area code)<br>8-1062  |   | 10. Field and Pool or<br>MultipleSee At  | Exploratory Area   |  |  |
| 4. Location of Well <i>(Footage, Sec., T</i>   | R., M., or Survey Description  | )   |  |   | 11. County or Parish.  | State  |  |  |
| Sec 11 T21S R37E SWSE 66   | 0FSL 1980FEL   |   |  |   | LEA COUNTY, NM   |  |  |  |
| 12. CHECK THE AI   | PPROPRIATE BOX(ES)   | TO INDICA   | TE NATURE O  | F NOTICE,   | REPORT, OR OTH   | IER DATA   |  |  |
| TYPE OF SUBMISSION   |  |   | ТҮРЕ ОН  | ACTION  |  |  |  |  |
| Notice of Intent   | 🗖 Acidize  | 🗖 Dee   | pen  | Product   | ion (Start/Resume)   | UWater Shut-Off  |  |  |
| Subsequent Report  | Alter Casing Cosing Repair   | 🗖 Hyd   | raulic Fracturing  |   | ation 🔲 Well Integrity   |  |  |  |
| ☐ Final Abandonment Notice   | □ New Construction □ Recomp  |   |  | arily Abandon   | Workover Operations  |  |  |  |
| -  | Convert to Injection   | Plug Back  Water  |  |   | Disposal   |  |  |  |
| 13. Describe Proposed or Completed Op-<br>If the proposal is to deepen directiona<br>Attach the Bond under which the wor<br>following completion of the involved<br>testing has been completed. Final Ab<br>determined that the site is ready for final for the involved for the involved for the site is ready for final for the site is ready for the si | cration: Clearly state all pertine<br>ally or recomplete horizontally,<br>rk will be performed or provide<br>l operations. If the operation re-<br>pandonment Notices must be fil-<br>inal inspection. | nt details, includ<br>give subsurface<br>the Bond No. of<br>sults in a multipl<br>ed only after all | ing estimated startin,<br>locations and measu<br>a file with BLM/BIA<br>e completion or reco<br>requirements, includ | g date of any p<br>red and true ve<br>Required sub<br>impletion in a r<br>ing reelamation | roposed work and approy<br>rtical depths of all pertin<br>ssequent reports must be<br>new interval, a Form 316<br>n, have been completed a | vimate duration thereof.<br>ent markers and zones.<br>filed within 30 days<br>0-4 must be filed once<br>and the operator has |  |  |
| Apache proposes the attached<br>Waterflood Project Case 1350   | d conformance procedure<br>03 R-12394)   | and WBD's t   | o workover this i  | njection wel  | I. (EBDU   |  |  |  |
|  |  |   | 055  |   |  |  |  |  |
|  | HED FOR  |   |  |   |  |  |  |  |
|  |  |   | CONDITI  | ONS OF  | APPROVAL   |  |  |  |
|  |  |   |  |   |  |  |  |  |
| 14. I hereby certify that the foregoing is   | true and correct.<br>Electronic Submission #-<br>For APACH   | 405836 verifie<br>1E CORPORA<br>essing by PRI   | d by the BLM Wel<br>TION, sent to the<br>SCILLA PEREZ or   | l Information<br>Hobbs<br>03/12/2018  | System<br>(18PP0758SE)   | · · · · ·  |  |  |
| Name (Printed/Typed) REESA F   | ISHER  |   | Title SR STAFF REGULATORY ANALYST  |   |  |  |  |  |
| Signatura (Elastronia S  | Submission)  |   | Data 02/27/20  | 119   |  |  |  |  |
| Signature (Electronic 3  |  |   |  |   | SF   |  |  |  |
|  |  |   |  |   |  | · · · · · · · · · · · · · · · · · · ·  |  |  |
| _Approved By_MUSTAFA HAQUE_  |  |   | TitlePETROLE   | Date 06/07/2018   |  |  |  |  |
| Conditions of approval, if any, are attache<br>certify that the applicant holds legal or equivient would entitle the applicant to condu-   | d. Approval of this notice does<br>uitable title to those rights in the<br>ict operations thereon.   | not warrant or<br>e subject lease   | r<br>Office Hobbs  |   |  |  |  |  |
| Title 18 U.S.C. Section 1001 and Title 43<br>States any false, fictitious or fraudulent  | U.S.C. Section 1212, make it a statements or representations as  | crime for any pe<br>to any matter w   | rson knowingly and ithin its jurisdiction.   | willfully to ma   | ke to any department or  | agency of the United   |  |  |
| (Instructions on page 2)<br>** BLM RFV   | ISED ** BLM REVISE   |   | EVISED ** BLN  |   | ** BLM REVISE  | D **   |  |  |

| MUS | 1001 | 0    |
|-----|------|------|
| Le  | 14   | 2018 |

# Additional data for EC transaction #405836 that would not fit on the form

10. Field and Pool, continued

EUNICE

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### East Blinebry Drinkard Unit (EBDU) #17W

### API No. 30-025-06478

### Proposed conformance procedure to workover this injection well

- 1. MIRU PU. Blow down the well and kill as needed. ND WH. NU BOP. Release the injection packer and TOH with the injection tubing and packer.
- 2. PU and TIH with 2-7/8" work string and bit to 6,100'. TOH with work string and bit.
- 3. TIH with CIBP and work string. Set CIBP at ~6,000' and cap with 2 sacks of Class "C" cement.
- 4. TOH with work string. TIH with cement retainer and work string. Establish an injection rate with water. Set cement retainer at ~5,550'.
- Squeeze perforations 5,604' 5,728' with Class "C" cement. Sting out of retainer and TOH. SWION.
- 6. TIH with bit and work string. Tag top of cement. Drill out cement and tag top of cement above CIBP at ~6,000'. TOH with work string and bit.
- 7. MIRU WL truck. Perforate additional Blinebry pay as needed to be in conformance with offset Blinebry producers. POH with wire line and RDMO WL truck.
- TIH with treating packer and work string. Set packer at ~50' above the top Blinebry perforation. MIRU stimulation equipment. Acidize the Blinebry using graded rock salt as a diverting agent. Leave the well shut in for 3 hours. Release the treating packer and wash out any salt. TOH with work string and treating packer.
- TIH with injection packer, profile nipple, on/off tool and work string. Set injection packer ~50' above the top Blinebry perforations. Drop blanking plug and seat in profile nipple. Release from the injection packer. TOH & LD work string.
- 10. TIH with existing injection tubing with on/off tool. Circulate packer fluid and latch onto injection packer. ND BOP. NU WH. Pressure test the casing to 500 psig for 30 minutes.
- 11. Schedule and run a MIT for the NMOCD. Turn well to injection.

Supran be

Existing

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### Well Name: EBDU 17W

| Legal Well N  |             |  | 7\\\/         | Common  | Well Name   |   | <u> </u>                                 | Wellbore API/UWI  | API 12 Digits)  | <u> </u>  |  |  |
|---|-------------|--|---------------|---|---|---|--|---|---|---|--|--|
| Ground Elev   | vation (ft) | Original KB Elevation (ft)                                     | Surface Legal |   | 37E   | PBTD (All) (fitKB)  |  |   | Total Depth (fKB)   |   |  |  |
| Ground Elev<br>3,431.0<br>Injection<br>MD<br>(ftKB)<br>500<br>1,000<br>1,500<br>2,000 | - EAST I    | Orginal KB Elevation (ft)<br>3,440.0<br>BLINEBRY DRINKA<br>Ver | RD UNIT 17    | Lacabon<br>1980' FEL, Unit O. Sec 11, T-21S, R-2<br>- Original Hole, 2/26/2018 11:14:<br>ic (actual)<br>Primary Cement; 9.00-<br>268.00 ftKB; 6/30/1953<br>Primary Cement; 9.00-<br>2,996.00 ftKB; 7/9/1953 | B7E         Current Weilbore Section Discription Discripticon Discription Discription Discription Discrip | PBTD (All) (IKB)<br>Original Hole - (<br>tions<br>es<br>OD (III)<br>Des<br>Primary Cement<br>Primary Cement<br>Primary Cement | 5,860<br>Size (#<br>13 3/8<br>9 5/8<br>7 | i) Act T<br>16<br>12 1/4<br>8 3/4<br>Wt (ID/ft)<br>48.<br>36.<br>23.<br>Top (ftKB)<br>9.<br>9.<br>3,380.<br>7 568 | Total Depth<br>7,577:0<br>90 (ftKB)<br>9.0<br>268:0<br>2,996:0<br>00 H-40<br>00 H-40<br>00 J-55<br>00<br>00<br>00 | (ftKB)<br>Act Btm (ftKB)<br>2,9<br>7,5<br>Grade<br>3tm (ftKB)<br>268.00<br>2,996.00<br>7,577.00<br>7,577.00 | Start Date           58.0         6/27/1953           96.0         7/1/1953           77.0         7/10/1953           Set Depth (ttKB)           268.00           2,996.00           7.577.00           Top Mees Meth           Returns at Surface           Returns at Surface           Temperture Survey           Tag |  |
| 2,500<br>3,000<br>3,500   | Casing      | Joints; 7: 23.00;  | <br>0:        |   | 7<br>Prod 1, 7,577.00ftKB,<br>7<br>Prod 1, 7,577.00ftKB,<br>7<br>Existing Perforations  | Abandonment Pl<br>Abandonment Pl  | lug<br>lug<br>Botto                      | 6,950.<br>6,860.<br>т. Depth (ftKB)   | 00<br>00<br>Shot Densir   | 6,956.00<br>6,865.00<br>y (shots/tt)  | Tag<br>Tag<br>Entered Shot Total   |  |
| 4,000<br>4,500  | 9-0         | 5, 9.00-7,577.00   |               |   | Type<br>Blinebry<br>Jype<br>Blinebry  | 5,604<br>Тор Depth (ftКВ)<br>5,636<br>Тор Depth (ftКВ)<br>5,690   | 5,62<br>Botto<br>5,67<br>Botto<br>5,72   | 22<br>m Depth (ftKB)<br>78<br>m Depth (ftKB)<br>28  | 4.0<br>Shot Densit<br>4.0<br>Shot Densit<br>4.0   | y (shots/ft)<br>y (shots/ft)  | From Entered Shot Total<br>172<br>Entered Shot Total<br>156  |  |
| 5,000   |             |  |               | Primary Cement:   | Type<br>Drinkard<br>Type<br>Drinkard  | Top Depth (ftK8)<br>6,560<br>Top Depth (ftK8)<br>6,612  | Botto<br>6,60<br>Botto<br>6,60           | m Depth (ftKB)<br>00<br>m Deptn (ftKB)<br>50  | Shot Densit<br>4,0<br>Shot Densit<br>4,0  | y (shots/ft)<br>y (shots/ft)  | Entered Shot Total<br>164<br>Entered Shot Total<br>156   |  |
| 5,500   |             |  |               |   | Type<br>Abo Suspended<br>Type   | Top Depth (ftKB)<br>6,880<br>Top Depth (ftKB)   | Botto<br>6,92<br>Botto                   | m Depth (ftKB)<br>26<br>m Depth (ftKB)  | Shot Densit<br>4.0<br>Shot Densit   | y (shots/ft)  | Entered Shot Total<br>188<br>Entered Shot Total  |  |
| 6,000   |             |  |               | Plug Back Total Depth;<br>6,860.00 ftKB<br>CIBP: 6,865.00-  | Abo Suspended<br>Type<br>Abo Suspended  | 7,010<br>Top Depth (ftKB)<br>7,064  | 7,05<br>Botto<br>7,10                    | 50<br>Im Depth (ftKB)<br>02   | 4.0<br>Shot Densit<br>4.0   | y (shots/tt)  | 164<br>Entered Shot Total<br>156   |  |
| 7,000<br>7,500  |             |  |               | 6,868.00<br>CIBP; 6,956.00-<br>6,959.00   |   |   |  |   |   |   |  |  |
| www.aj  | pachecor    | p.com  |               |   | Page 1/1  |   |  |   |   | Re  | port Printed: 2/26/201   |  |

# Constant low

Existing

.

### Well Name: EBDU 17W

| Legal Well N  | lame      |                   |             |           | Commo                     | n Well Name              |                    |        |                                       | Wellbore API/UWI (API 12 Digits) |   |                |                         |  |
|---|-----------|-------------------|-------------|-----------|---------------------------|--------------------------|--------------------|--------|---------------------------------------|----------------------------------|---|----------------|-------------------------|--|
| EAST BL   | INEBRY D  | RINKARD UNIT 017  | W           |           | EBDU                      | 17W                      |                    |        |                                       |                                  |   |                |                         |  |
| Ground Elevation (ft) Original KB Elevation (ft) Surface Legal Location |           |                   |             |           | 7E PBTD (All) (fitKB)     |                          |                    |        | Total Depth (ftKB)                    |                                  |   |                |                         |  |
|   |           |                   |             |           |                           |                          |                    |        |                                       |                                  | لنس <u>ــــــــــــــــــــــــــــــــــــ</u> |                |                         |  |
|   |           |                   |             |           |                           | Current Wellbore Sect    | tions              |        |                                       |                                  |   |                |                         |  |
| Injection   | - EAST B  | LINEBRY DRINKA    | RD UNIT 17  | - Origin  | al Hole, 2/26/2018 11:14: | Section D                | 85                 | Si     | ize (in)                              | Act Top                          | (ftKB)  | Act Stm (ftKB) | Start Date              |  |
|   |           |                   |             | - 3       |                           | Surface                  |                    |        | 16                                    |                                  | 9.0   | 2              | 68.0 6/27/1953          |  |
| MD  |           |                   |             |           |                           | Inter 1                  |                    |        | 12 1/4                                |                                  | 268.0 2,99                                      |                | 96.0 7/1/1953           |  |
| (ftKB)  |           | Ven               | ucal schema | nic (actu | ai)                       | Prod 1                   | Prod 1             |        | 8 3/4                                 | 8 3/4 2,996.0 7,5                |   | 77.0 7/10/1953 |                         |  |
|   |           |                   |             |           |                           | Existing Casing          |                    |        |                                       |                                  |   |                |                         |  |
|   |           |                   |             |           |                           |                          | OD (in)            | 10.010 | Wt (ib/                               | ft)                              |   | Grade          | Set Depth (ttKB)        |  |
| [   |           | 4                 |             |           | 268 00 #KB: 6/30/1053     | Surface                  |                    |        | 40.00                                 |                                  | 1H-40   |                | 268.00                  |  |
|   |           | -                 |             |           | 200.00 11(12, 0100/1935   | Dred 4                   | <u> </u>           | 9 5/6  |                                       | 36.00                            |   |                | 2,996.00                |  |
| 500   |           |                   | <b>③1 Ⅲ</b> |           |                           | File Company             |                    |        |                                       | 23.00                            | J-55  |                | 7,577.00                |  |
|   |           |                   |             | 118       |                           |                          | Der                | r      | Too /84                               | (8)                              |   | m (fiKB)       | Too Meas Math           |  |
| 1,000   |           |                   |             |           |                           | Surface, 268.00ftKB.     | Primary Cement     | t      | 100 (10)                              | 9.00                             | t   | 268.00         | Returns at Surface      |  |
|   |           |                   |             | 118       |                           | 13 3/8                   |                    |        |                                       |                                  |   | 200.00         |                         |  |
| 1,500   |           |                   |             | - 1 🎼     | Primary Cement; 9.00-     | Inter 1, 2,996.00ftKB,   | Primary Cement     | 1      |                                       | 9.00                             |   | 2,996.00       | Returns at Surface      |  |
|   |           |                   |             | 1 🔯       | 2,330.00 IIVD, 1/3/1903   | 9 5/8                    |                    |        |                                       |                                  |   |                |                         |  |
| 2 000   |           |                   |             |           |                           | Prod 1, 7,577.00ftKB,    | Primary Cement     | L _    |                                       | 3,380.00                         |   | 7,577.00       | Temperture Survey       |  |
| 2,000   |           |                   |             |           |                           |                          |                    |        |                                       |                                  | ļ   |                |                         |  |
| 2 500   |           |                   |             |           |                           | 17 Prod 1, 7,577.00ttKB, | Cement Plug        | ł      |                                       | 1,568.00                         | 1   | 7,577.00       | lag                     |  |
| 2,500   |           | •                 |             |           |                           | Prod 1 7 577 0000        | Abandonment        |        |                                       | 6 950 00                         | <b> </b>  | 6 056 00       | Tag                     |  |
|   |           |                   |             |           |                           | 17                       | - Austrationment P | iug    |                                       | 0,500.00                         |   | 0,900.00       | 19                      |  |
| 3,000   |           |                   | ····        |           |                           | Prod 1, 7,577.00ftKB     | Abandonment P      | lug    | • • • • • • • • • • • • • • • • • • • | 6.860.00                         | <u> </u>  | 6,865.00       | Тао                     |  |
|   |           |                   |             |           |                           | ] 7                      |                    | , i    |                                       |                                  | 1   | -,             | -5                      |  |
| 3,500   | ~~~~~     |                   | ~~~ 🕅 🚻     | · · · · · |                           | Existing Perforations    |                    |        |                                       |                                  | ·   |                |                         |  |
|   | Casing J  | Joints; 7; 23.00; |             | li di     |                           | Type                     | Top Depth (ftKB)   |        | Bottom Depth (ftK)                    | 3)                               | Shot Density                                    | (snots/ft)     | Entered Shot Total      |  |
| 4,000   | J-55      | 9.00-1,377.00     | - 31 H M    |           |                           |                          | Top Depth (flKR)   | ļ      | D,022                                 | 31                               | Shot Density                                    | (shots/#)      | /D                      |  |
|   |           |                   | - X 1 1     | Ľ.        |                           | Blinebry                 | 5,636              |        | 5,678                                 | -,                               | 4.0   | 10.00011       | 172                     |  |
| 4,500   |           |                   | - XI 11 1   | E.        |                           | Type                     | Top Depth (ftKB)   |        | Bottom Depth (ftK                     | 3)                               | Shot Density                                    | (shots/ft)     | Entered Shot Total      |  |
|   |           |                   |             | N.        |                           | Blinebry                 | 15,690             |        | 5,/28                                 |                                  | 4.U   | (-1            | 156                     |  |
| 5 000   |           |                   |             | N.        |                           | Drinkard                 | 6,560              |        | 6,600                                 | ,                                | 4.0   | (21)(12)(1)    | 164                     |  |
| 3,000   |           |                   |             | N.        |                           | Туре                     | Top Depth (ftKB)   |        | Bottom Deptn (ftK)                    | 3)                               | Shot Density                                    | (shots/ft)     | Entered Shot Total      |  |
|   |           |                   |             |           | Primary Cement;           | Drinkard                 | 6,612              |        | 6,650                                 |                                  | 4.0   |                | 156                     |  |
| 5,500   |           |                   |             |           |                           | Abo Suspended            | 100 Depth (ftKB)   | ļ      | Bottom Depth (ftK)<br>6,926           | <b>2)</b>                        | 4.0   | (SNOIS/II)     | Entered Shot Total      |  |
|   |           |                   | W           |           |                           | Туре                     | Top Depth (ftKB)   |        | Bottom Depth (fiK                     | 3)                               | Shot Density                                    | (shots/ft)     | Entered Shot Total      |  |
| 6,000   |           |                   | - 23        | N.        | Plug Back Total Depth;    | Abo Suspended            | 7,010              |        | 7,050                                 |                                  | 4.0   |                | 164                     |  |
|   |           |                   |             |           | ∫ 6,860.00 ftKB           | Type<br>Abo Suspended    | Top Depth (ftKB)   |        | Bottom Depth (ftK)<br>7 102           | B)                               | Shot Density                                    | (shots/ft)     | Entered Shot Total      |  |
| 6,500   |           |                   | 2           | Ľ.        | CIBP; 6,865.00-           |                          | 11,004             |        | 1,102                                 |                                  | 1   |                |                         |  |
|   |           |                   | 3           |           | 6,868.00                  |                          |                    |        |                                       |                                  |   |                |                         |  |
| 7,000   |           |                   |             |           | CIBP; 6,956.00-           |                          |                    |        |                                       |                                  |   |                |                         |  |
|   |           |                   | 3           |           | 0,939.00                  |                          |                    |        |                                       |                                  |   |                |                         |  |
| 7 500   |           |                   | - 21        | lê -      |                           | ]]                       |                    |        |                                       |                                  |   |                |                         |  |
|   |           |                   | 1.          |           |                           |                          |                    |        |                                       |                                  |   |                |                         |  |
|   |           |                   |             |           |                           |                          |                    |        |                                       |                                  |   |                |                         |  |
| www.a   | pachecorp | .com              |             |           |                           | Page 1/1                 |                    |        |                                       |                                  |   | Re             | port Printed: 2/26/2018 |  |
|   |           |                   |             |           |                           |                          |                    |        |                                       |                                  |   |                |                         |  |

# **Conditions of Approval**

## Apache Corporation East Blinebry Drinkard Unit 17 API 3002506478 June 7, 2018

- 1. Notify BLM 575-361-2822 before plug back procedures. The procedures are to be witnessed.
- 2. Surface disturbance beyond the existing pad must have prior approval.

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- 3. Casing added or replaced requires a prior notice of intent (BLM Form 3160-5) approval of the design.
- 4. Closed loop system required. 2000 2M BOP to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the work string shall be adequate. Tapered work strings will require an additional pipe ram.

### Well with a Packer - Operations

- 1) Conduct a Mechanical Integrity Test of the tubing/casing annulus after a tubing, packer or casing seal is established. Repair that seal any time more than five barrels of packer fluid is replaced within 30 days.
  - a) The minimum test pressure should be 500 psig for 30 minutes, with 200 psig differentials between tubing and casing pressure (at test time) but no more than 70% of casing burst pressure as described by Onshore Order 2.III.B.1.h. (The tubing or reservoir pressure may need to be reduced). An alternate method for a BLM approved MIT is to have the fluid filled system open to atmospheric pressure and have a loss of less than five barrels in 30 days witnessed by a BLM authorized officer.
  - b) Document the pressure test on a calibrated recorder chart registering within 25 to 85 per cent of its full range. Greater than 10% pressure leakoff will be viewed as a failed MIT. Less than 10% pressure leakoff will be evaluated site specifically and may restrict injection approval.
  - c) At least 24 hours before the test in Eddy County call: phone 575-361-2822 and in Lea County call: phone 575-393-3612. Note the contact notification method, time, & date in your subsequent report.
  - d) Submit a subsequent Sundry Form 3160-5 relating the MIT activity. Include a copy of the recorded MIT pressure chart. List the name of the BLM witness, or the notified person and date of notification. NMOCD is to retain the original recorded MIT chart.