

Form 3160-3  
(June 2015)FORM APPROVED  
OMB No. 1004-0137  
Expires: January 31, 2018

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
**APPLICATION FOR PERMIT TO DRILL OR REENTER**

|  |  |   |  |
|--|--|---|--|
| 1a. Type of work: <input type="checkbox"/> DRILL <input type="checkbox"/> REENTER<br>1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other<br>1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone |  | 5. Lease Serial No.<br><br>6. If Indian, Allottee or Tribe Name<br><br>7. If Unit or CA Agreement, Name and No.<br><br>8. Lease Name and Well No.   |  |
| 2. Name of Operator  |  | 9. API Well No. <span style="border: 2px solid red; padding: 2px;">30-015-54280</span>  |  |
| 3a. Address  |  | 3b. Phone No. (include area code)   |  |
| 4. Location of Well (Report location clearly and in accordance with any State requirements. *)<br>At surface<br>At proposed prod. zone   |  | 10. Field and Pool, or Exploratory<br><br>11. Sec., T. R. M. or Blk. and Survey or Area   |  |
| 14. Distance in miles and direction from nearest town or post office*  |  | 12. County or Parish  |  |
| 13. State  |  |   |  |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)  |  | 16. No of acres in lease  |  |
| 17. Spacing Unit dedicated to this well  |  |   |  |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.   |  | 19. Proposed Depth  |  |
| 20. BLM/BIA Bond No. in file   |  |   |  |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.)  |  | 22. Approximate date work will start*   |  |
| 23. Estimated duration   |  |   |  |
| 24. Attachments  |  |   |  |
| The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)   |  |   |  |
| 1. Well plat certified by a registered surveyor.<br>2. A Drilling Plan.<br>3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).  |  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).<br>5. Operator certification.<br>6. Such other site specific information and/or plans as may be requested by the BLM. |  |
| 25. Signature  |  | Name (Printed/Typed)  |  |
| Title  |  | Date  |  |
| Approved by (Signature)  |  | Name (Printed/Typed)  |  |
| Title  |  | Office  |  |
| Application approval 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.<br>Conditions of approval, if any, are attached.  |  |   |  |
| 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 2)

\*(Instructions on page 2)



## District I

1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720

## District II

811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720

## District III

1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170

## District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

## State of New Mexico

## Energy, Minerals &amp; Natural Resources Department

## OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

|  |  |   |
|--|--|---|
| <sup>1</sup> API Number<br><b>30-015-54280</b> | <sup>2</sup> Pool Code<br><b>51120</b>                     | <sup>3</sup> Pool Name<br><b>Red Lake; Glorita Yeso</b> |
| <sup>4</sup> Property Code<br><b>329381</b>    | <sup>5</sup> Property Name<br><b>CONDOR 8 FEDERAL COM</b>  | <sup>6</sup> Well Number<br><b>7H</b>                   |
| <sup>7</sup> OGRID No.<br><b>330211</b>        | <sup>8</sup> Operator Name<br><b>REDWOOD OPERATING LLC</b> | <sup>9</sup> Elevation<br><b>3522.3</b>                 |

<sup>10</sup> Surface Location


| UL or lot no. | Section  | Township    | Range       | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County      |
|---------------|----------|-------------|-------------|---------|---------------|------------------|---------------|----------------|-------------|
| <b>D</b>      | <b>9</b> | <b>18 S</b> | <b>27 E</b> |         | <b>340</b>    | <b>NORTH</b>     | <b>575</b>    | <b>WEST</b>    | <b>EDDY</b> |

<sup>11</sup> Bottom Hole Location If Different From Surface

| UL or lot no. | Section  | Township    | Range       | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County      |
|---------------|----------|-------------|-------------|---------|---------------|------------------|---------------|----------------|-------------|
| <b>A</b>      | <b>7</b> | <b>18 S</b> | <b>27 E</b> |         | <b>820</b>    | <b>NORTH</b>     | <b>1319</b>   | <b>EAST</b>    | <b>EDDY</b> |

|   |                               |                                  |                         |
|---|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres<br><b>200</b> | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No. |
|---|-------------------------------|----------------------------------|-------------------------|

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

|  |   |
|--|---|
| <p><b>BOTTOM OF HOLE</b><br/>LAT. = 32.7673596°N<br/>LONG. = 104.3134235°W<br/>NMSP EAST (FT)<br/>N = 642896.00<br/>E = 547457.35</p> <p><b>FIRST TAKE POINT</b><br/>820' FNL, 100' FEL<br/>LAT. = 32.7672772°N<br/>LONG. = 104.2923084°W<br/>NMSP EAST (FT)<br/>N = 642869.88<br/>E = 553947.71</p> <p>NW CORNER SEC. 7<br/>LAT. = 32.7698077°N<br/>LONG. = 104.3264802°W<br/>NMSP EAST (FT)<br/>N = 643788.15<br/>E = 543443.94</p> <p>NW CORNER SEC. 8<br/>LAT. = 32.7695498°N<br/>LONG. = 104.3091295°W<br/>NMSP EAST (FT)<br/>N = 643695.09<br/>E = 548777.05</p> <p>NW CORNER SEC. 9<br/>LAT. = 32.7695301°N<br/>LONG. = 104.2919694°W<br/>NMSP EAST (FT)<br/>N = 643689.57<br/>E = 554051.59</p> <p>NE CORNER SEC. 9<br/>LAT. = 32.7695666°N<br/>LONG. = 104.2748572°W<br/>NMSP EAST (FT)<br/>N = 643705.32<br/>E = 559311.36</p> <p>LOT 1<br/>LAT. = 32.7696774°N<br/>LONG. = 104.3177684°W<br/>NMSP EAST (FT)<br/>N = 643741.04<br/>E = 546121.71</p> <p>LOT 2<br/>LAT. = 32.7695402°N<br/>LONG. = 104.3005448°W<br/>NMSP EAST (FT)<br/>N = 643692.32<br/>E = 551415.74</p> <p>LOT 3<br/>LAT. = 32.7551705°N<br/>LONG. = 104.3177995°W<br/>NMSP EAST (FT)<br/>N = 638463.23<br/>E = 546112.93</p> <p>LOT 4<br/>LAT. = 32.7551020°N<br/>LONG. = 104.2835219°W<br/>NMSP EAST (FT)<br/>N = 638441.56<br/>E = 556650.57</p> <p>SW CORNER SEC. 7<br/>LAT. = 32.7552943°N<br/>LONG. = 104.3264680°W<br/>NMSP EAST (FT)<br/>N = 638508.01<br/>E = 543448.03</p> <p>SW CORNER SEC. 8<br/>LAT. = 32.7550456°N<br/>LONG. = 104.3091543°W<br/>NMSP EAST (FT)<br/>N = 638418.28<br/>E = 548770.65</p> <p>SE CORNER SEC. 8<br/>LAT. = 32.7551007°N<br/>LONG. = 104.2920617°W<br/>NMSP EAST (FT)<br/>N = 638439.96<br/>E = 554025.27</p> <p>SE CORNER SEC. 9<br/>LAT. = 32.7551009°N<br/>LONG. = 104.2749845°W<br/>NMSP EAST (FT)<br/>N = 638442.50<br/>E = 559275.13</p> <p><b>LAST TAKE POINT</b><br/>820' FNL, 1220' FEL<br/>LAT. = 32.7673548°N<br/>LONG. = 104.3131015°W<br/>NMSP EAST (FT)<br/>N = 642896.27<br/>E = 547556.33</p> <p><b>CONDOR 8 FEDERAL COM 7H</b><br/>ELEV. = 3522.3'<br/>LAT. = 32.7686000°N (NAD83)<br/>LONG. = 104.2901047°W<br/>NMSP EAST (FT)<br/>N = 643351.42<br/>E = 554624.88</p> <p>NOTE:<br/>LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83) LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE. VERTICAL DATUM NAVD83.</p> | <p><b>17 OPERATOR CERTIFICATION</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Deana Weaver</i> 1/18/22</p> <p>Signature _____ Date _____</p> <p><b>Deana Weaver</b></p> <p>Printed Name _____</p> <p><b>dweaver@mec.com</b></p> <p>E-mail Address _____</p> <p><b>18 SURVEYOR CERTIFICATION</b></p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>JANUARY 17, 2022</p> <p>Date of Survey _____</p> <p>Signature and Seal of Professional Surveyor: </p> <p>Certificate Number: <b>WILLIAM F. JARAMILLO, PLS 12797</b><br/><b>REGISTERED PROFESSIONAL SURVEYOR</b><br/>NO. 9114A</p> |
|--|---|

Intent ☒ As Drilled ☐

API #

|                              |                             |             |
|------------------------------|-----------------------------|-------------|
| Operator Name:               | Property Name:              | Well Number |
| <b>REDWOOD OPERATING LLC</b> | <b>CONDOR 8 FEDERAL COM</b> | <b>7H</b>   |

Kick Off Point (KOP)

|                               |                     |                        |                     |     |                                 |                          |                    |                         |                       |
|-------------------------------|---------------------|------------------------|---------------------|-----|---------------------------------|--------------------------|--------------------|-------------------------|-----------------------|
| UL<br><b>D</b>                | Section<br><b>9</b> | Township<br><b>18S</b> | Range<br><b>27E</b> | Lot | Feet<br><b>340</b>              | From N/S<br><b>NORTH</b> | Feet<br><b>575</b> | From E/W<br><b>WEST</b> | County<br><b>EDDY</b> |
| Latitude<br><b>32.7686000</b> |                     |                        |                     |     | Longitude<br><b>104.2901047</b> |                          |                    | NAD<br><b>83</b>        |                       |

First Take Point (FTP)

|                               |                     |                        |                     |     |                                 |                          |                    |                         |                       |
|-------------------------------|---------------------|------------------------|---------------------|-----|---------------------------------|--------------------------|--------------------|-------------------------|-----------------------|
| UL<br><b>A</b>                | Section<br><b>8</b> | Township<br><b>18S</b> | Range<br><b>27E</b> | Lot | Feet<br><b>820</b>              | From N/S<br><b>NORTH</b> | Feet<br><b>100</b> | From E/W<br><b>EAST</b> | County<br><b>EDDY</b> |
| Latitude<br><b>32.7672772</b> |                     |                        |                     |     | Longitude<br><b>104.2923084</b> |                          |                    | NAD<br><b>83</b>        |                       |

Last Take Point (LTP)

|                               |                     |                        |                     |     |                                 |                          |                     |                         |                       |
|-------------------------------|---------------------|------------------------|---------------------|-----|---------------------------------|--------------------------|---------------------|-------------------------|-----------------------|
| UL<br><b>A</b>                | Section<br><b>7</b> | Township<br><b>18S</b> | Range<br><b>27E</b> | Lot | Feet<br><b>820</b>              | From N/S<br><b>NORTH</b> | Feet<br><b>1220</b> | From E/W<br><b>EAST</b> | County<br><b>EDDY</b> |
| Latitude<br><b>32.7673548</b> |                     |                        |                     |     | Longitude<br><b>104.3131015</b> |                          |                     | NAD<br><b>83</b>        |                       |

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

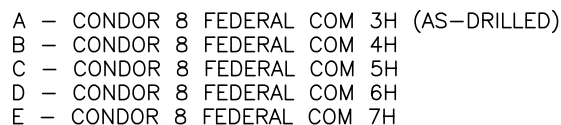
If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

|                |                |             |
|----------------|----------------|-------------|
| Operator Name: | Property Name: | Well Number |
|                |                |             |

KZ 06/29/2018

NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE

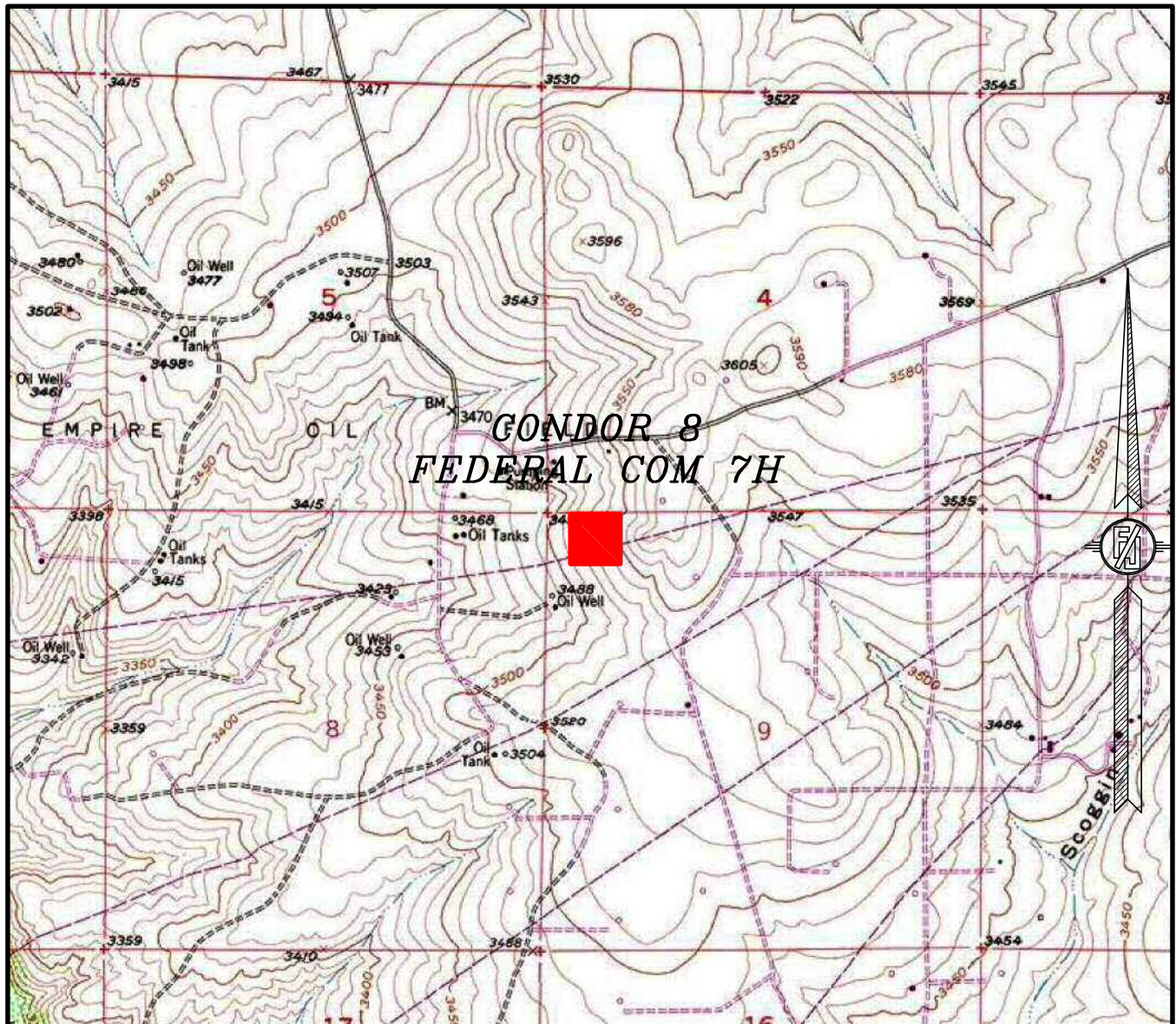


FILIMON F. JARAMILLO N.S. 2797

301 SOUTH CANAL  
(575) 234-3341



SECTION 9, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO  
 LOCATION VERIFICATION MAP



USGS QUAD MAP:  
 SPRING LAKE

NOT TO SCALE

REDWOOD OPERATING LLC  
**CONDOR 8 FEDERAL COM 7H**  
 LOCATED 340 FT. FROM THE NORTH LINE  
 AND 575 FT. FROM THE WEST LINE OF  
 SECTION 9, TOWNSHIP 18 SOUTH,  
 RANGE 27 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO

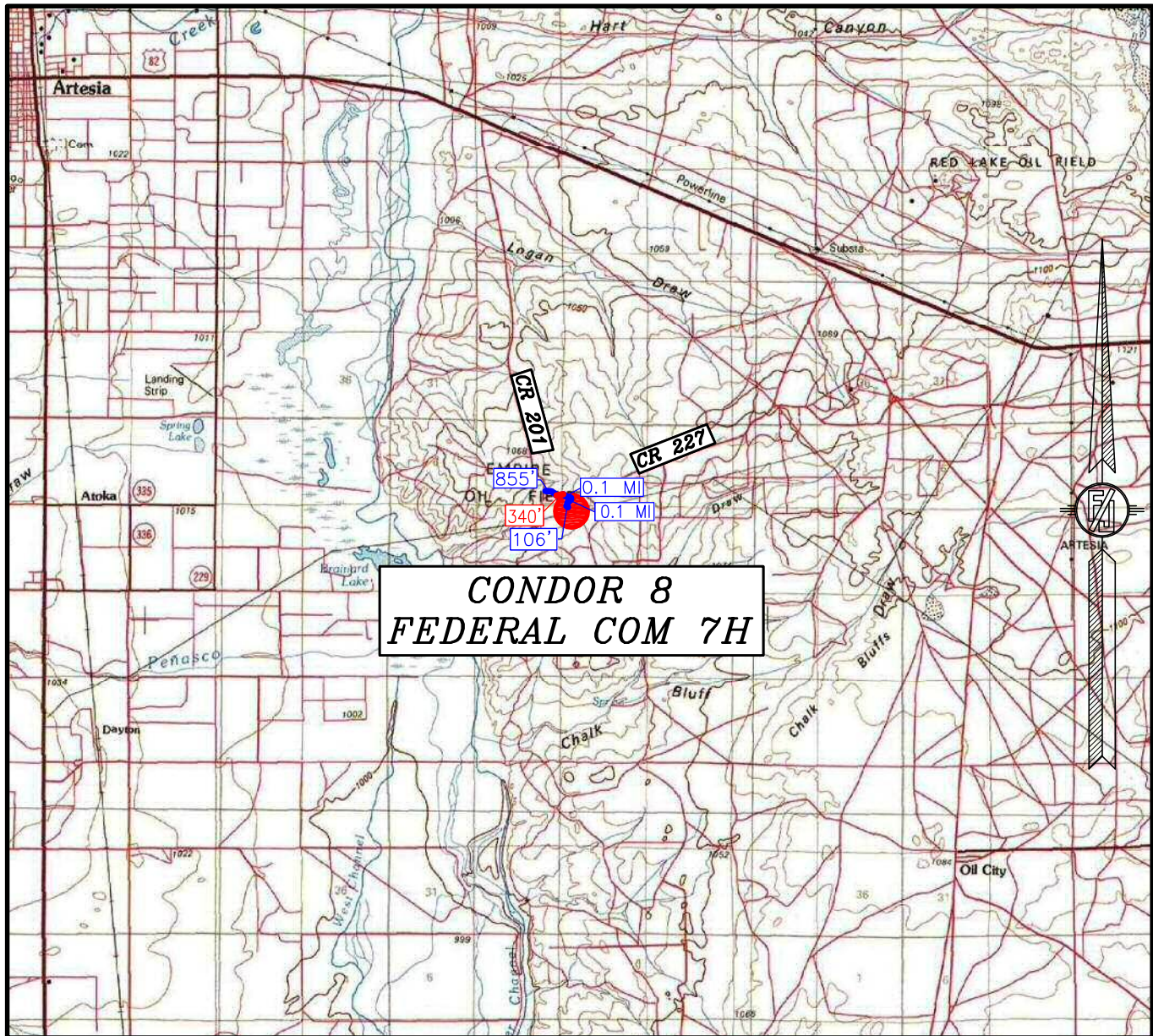
JANUARY 17, 2022

MADRON SURVEYING, INC. 301 SOUTH CANAL  
 (575) 234-3341

SURVEY NO. 9114A  
 CARLSBAD, NEW MEXICO



SECTION 9, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO  
 VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

**DIRECTIONS TO LOCATION**

FROM CR 227 (LITTLE DIAMOND) AND CR 201 (CHALK BLUFF) GO SOUTHEAST ON CR 227 855', THEN EAST 340', TURN RIGHT ON CALICHE ROAD AND GO SOUTHEAST 0.1 OF A MILE, TURN RIGHT AND GO SOUTHWEST 0.1 OF A MILE TO ROAD SURVEY, FOLLOW FLAGS SOUTHEAST 106' TO THE NORTHWEST PAD CORNER FOR THIS LOCATION.

REDWOOD OPERATING LLC  
**CONDOR 8 FEDERAL COM 7H**  
 LOCATED 340 FT. FROM THE NORTH LINE  
 AND 575 FT. FROM THE WEST LINE OF  
 SECTION 9, TOWNSHIP 18 SOUTH,  
 RANGE 27 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO

JANUARY 17, 2022

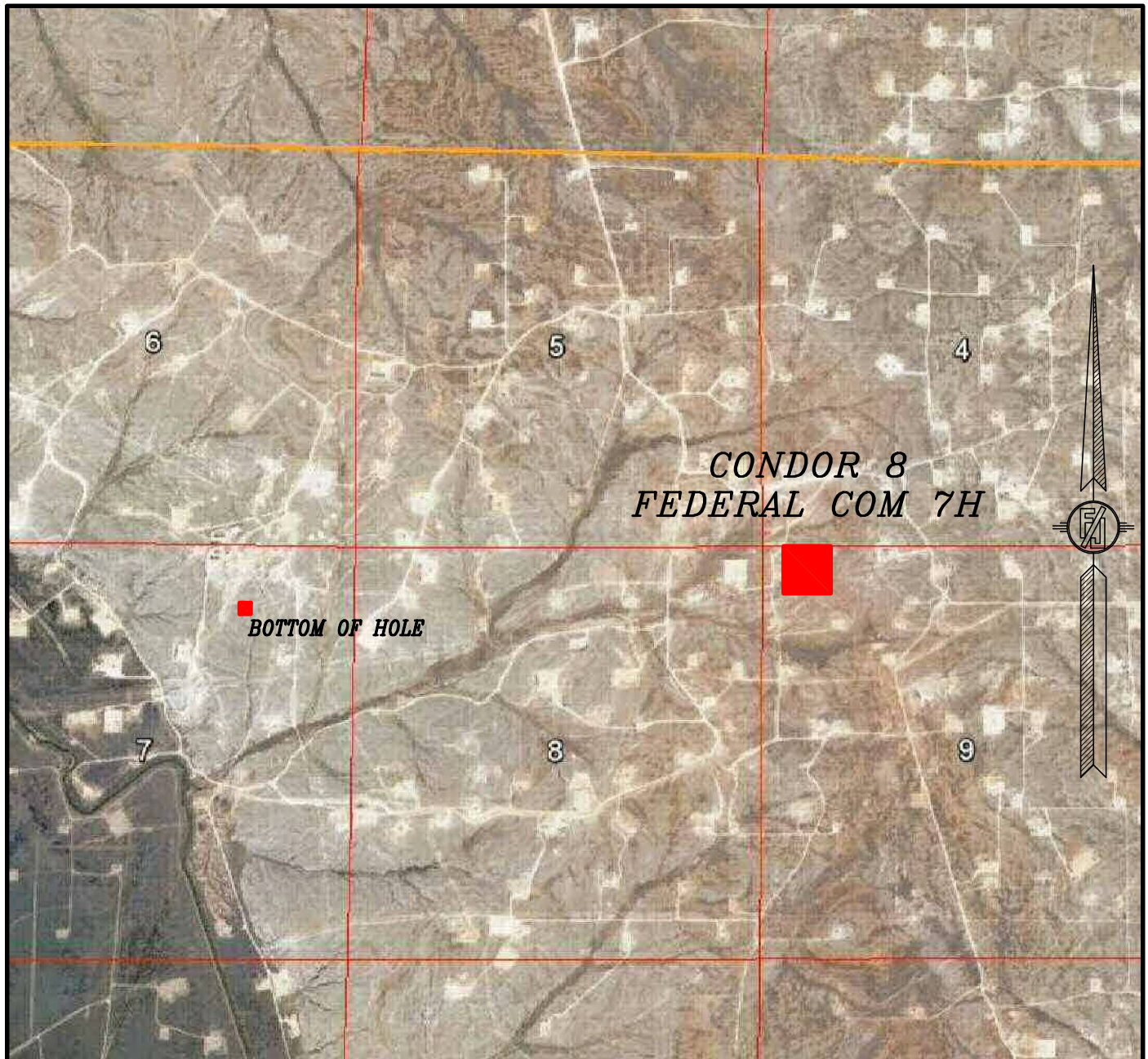
MADRON SURVEYING, INC.

301 SOUTH CANAL  
 (575) 234-3341

SURVEY NO. 9114A  
 CARLSBAD, NEW MEXICO



SECTION 9, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO  
 AERIAL PHOTO



NOT TO SCALE  
 AERIAL PHOTO:  
 GOOGLE EARTH  
 MARCH 2016

REDWOOD OPERATING LLC  
**CONDOR 8 FEDERAL COM 7H**  
 LOCATED 340 FT. FROM THE NORTH LINE  
 AND 575 FT. FROM THE WEST LINE OF  
 SECTION 9, TOWNSHIP 18 SOUTH,  
 RANGE 27 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO

JANUARY 17, 2022

MADRON SURVEYING, INC.

301 SOUTH CANAL  
 (575) 234-3341

SURVEY NO. 9114A  
 CARLSBAD, NEW MEXICO

SECTION 9, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO  
 ACCESS AERIAL ROUTE MAP



NOT TO SCALE  
 AERIAL PHOTO:  
 GOOGLE EARTH  
 MARCH 2016

REDWOOD OPERATING LLC  
**CONDOR 8 FEDERAL COM 7H**  
 LOCATED 340 FT. FROM THE NORTH LINE  
 AND 575 FT. FROM THE WEST LINE OF  
 SECTION 9, TOWNSHIP 18 SOUTH,  
 RANGE 27 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO

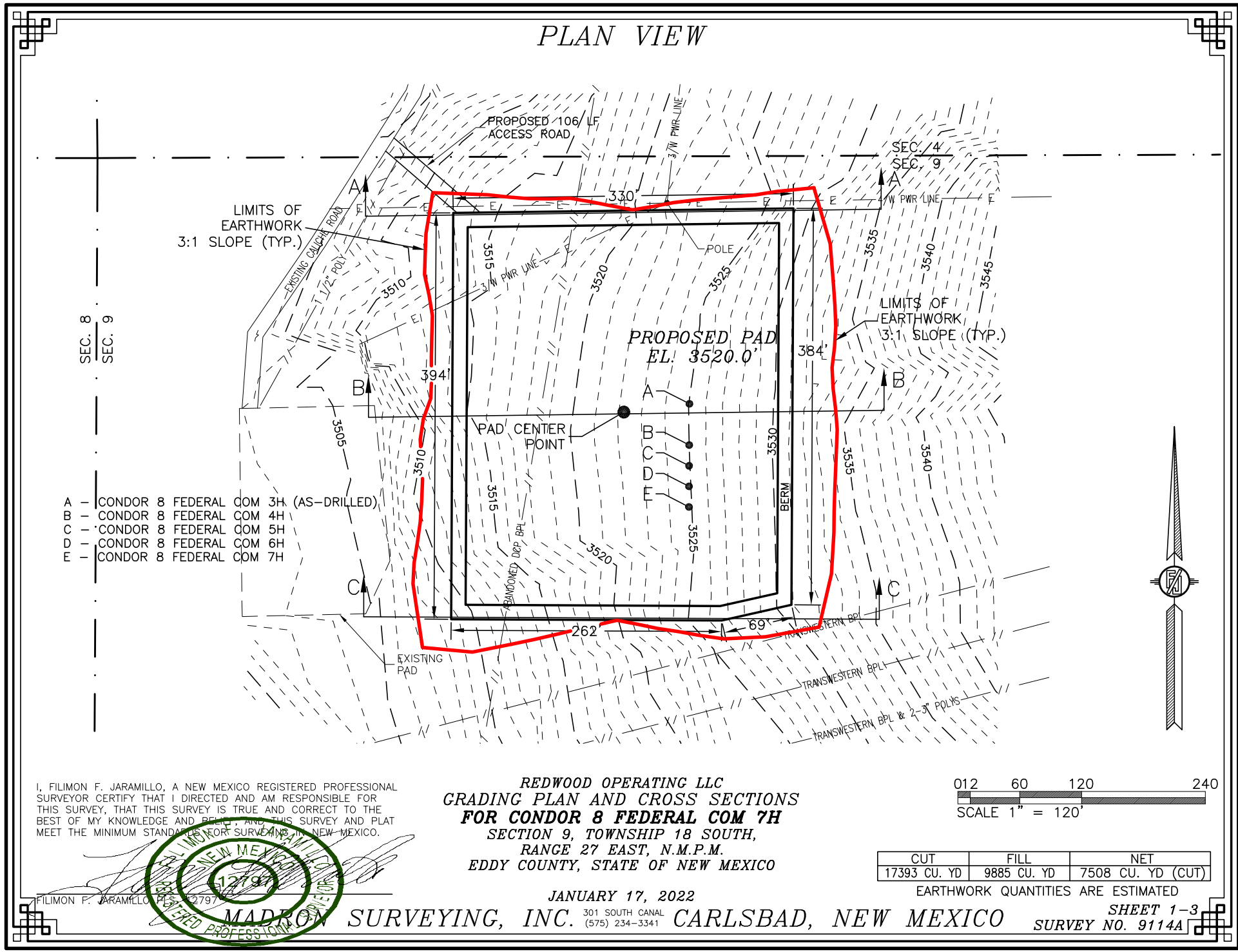
JANUARY 17, 2022

MADRON SURVEYING, INC.

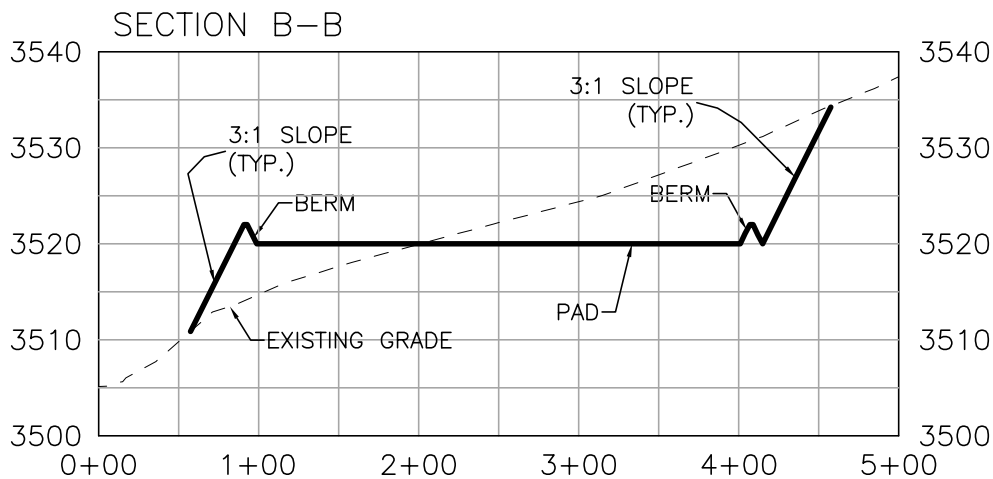
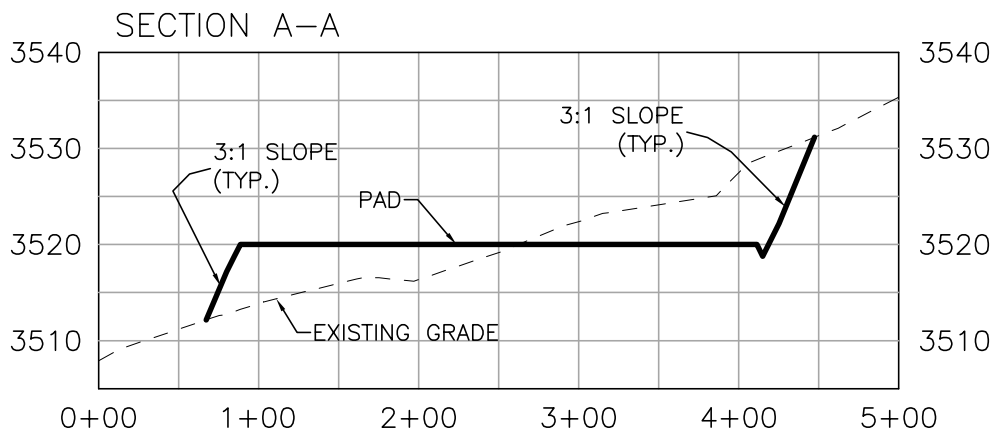
301 SOUTH CANAL  
 (575) 234-3341

SURVEY NO. 9114A  
 CARLSBAD, NEW MEXICO





# CROSS SECTIONS



I, FILIMON F. JARAMILLO, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.



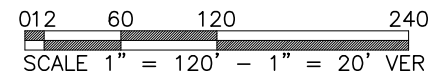
FILIMON F. JARAMILLO, SLS: 12797

REDWOOD OPERATING LLC  
GRADING PLAN AND CROSS SECTIONS  
FOR CONDOR 8 FEDERAL COM 7H  
SECTION 9, TOWNSHIP 18 SOUTH,  
RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

JANUARY 17, 2022

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

301 SOUTH CANAL  
(575) 234-3341



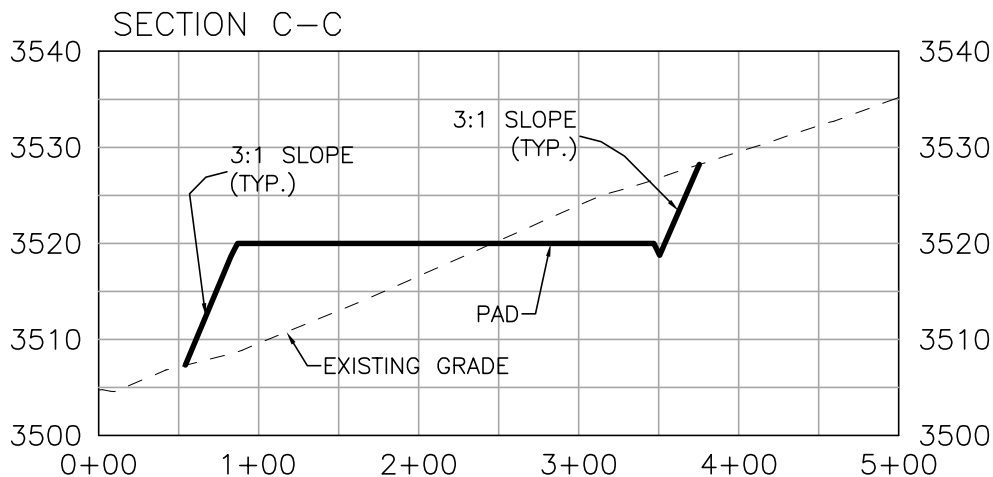
| CUT          | FILL        | NET               |
|--------------|-------------|-------------------|
| 17393 CU. YD | 9885 CU. YD | 7508 CU. YD (CUT) |

EARTHWORK QUANTITIES ARE ESTIMATED

SHEET 2-3  
SURVEY NO. 9114A



# CROSS SECTIONS



I, FILIMON F. JARAMILLO, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

**REDWOOD OPERATING LLC**  
**GRADING PLAN AND CROSS SECTIONS**  
**FOR CONDOR 8 FEDERAL COM 7H**  
 SECTION 9, TOWNSHIP 18 SOUTH,  
 RANGE 27 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO

012 60 120 240  
 SCALE 1" = 120' - 1" = 20' VER

| CUT          | FILL        | NET               |
|--------------|-------------|-------------------|
| 17393 CU. YD | 9885 CU. YD | 7508 CU. YD (CUT) |

EARTHWORK QUANTITIES ARE ESTIMATED

FILIMON F. JARAMILLO PLS. 12797

**MADRON SURVEYING, INC.** 301 SOUTH CANAL (575) 234-3341 **CARLSBAD, NEW MEXICO**

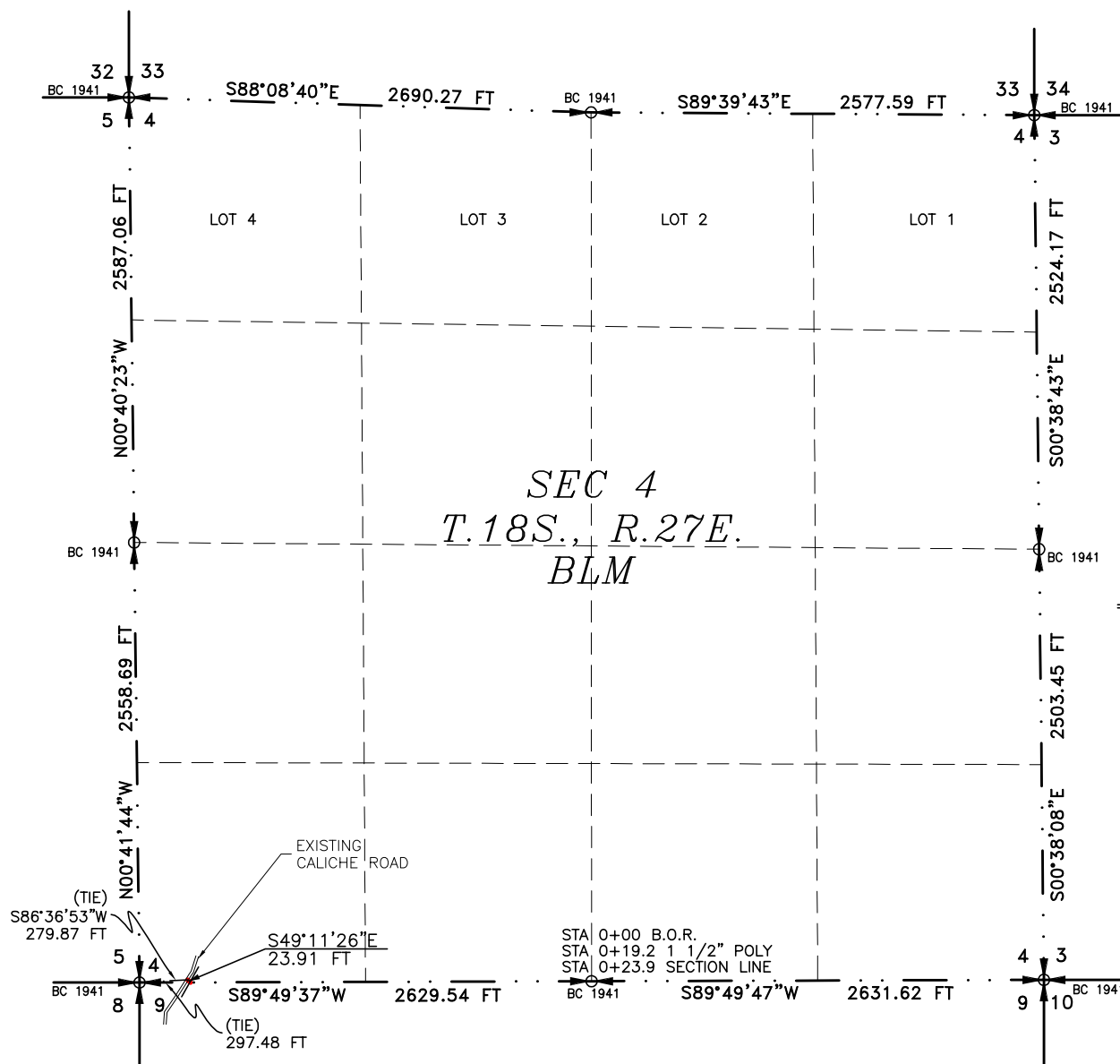
**SHEET 3-3**  
**SURVEY NO. 9114A**

**ACCESS ROAD PLAT**

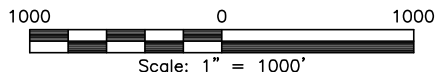
ACCESS ROAD TO THE CONDOR 8 FEDERAL COM 3H, 4H, 5H, 6H, 7H

**REDWOOD OPERATING LLC**

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING  
SECTION 4, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
JANUARY 17, 2022



SEE NEXT SHEET (2-4) FOR DESCRIPTION

**GENERAL NOTES**

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 1-4

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO (575) 234-3341

**SURVEYOR CERTIFICATE**

I, FILMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 17<sup>TH</sup> DAY OF JANUARY 2022

FILMON F. JARAMILLO PLS 12797

MADRON SURVEYING, INC.  
301 SOUTH CANAL  
CARLSBAD, NEW MEXICO 88220  
Phone (575) 234-3341

SURVEY NO. 9114A



**ACCESS ROAD PLAT**

ACCESS ROAD TO THE CONDOR 8 FEDERAL COM 3H, 4H, 5H, 6H, 7H

**REDWOOD OPERATING LLC**

**CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING  
SECTION 4, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
JANUARY 17, 2022**

**DESCRIPTION**

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 4, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE SW/4 SW/4 OF SAID SECTION 4, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M., WHENCE THE SOUTHWEST CORNER OF SAID SECTION 4, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS S86°36'53"W, A DISTANCE OF 279.87 FEET;

THENCE S49°11'26"E A DISTANCE OF 23.91 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHWEST CORNER OF SAID SECTION 4, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS S89°49'37"W, A DISTANCE OF 297.48 FEET;

SAID STRIP OF LAND BEING 23.91 FEET OR 1.45 RODS IN LENGTH, CONTAINING 0.016 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SW/4 SW/4 23.91 L.F. 1.45 RODS 0.016 ACRES

**GENERAL NOTES**

1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

**SHEET: 2-4**

**MADRON SURVEYING, INC.** 301 SOUTH CANAL CARLSBAD, NEW MEXICO (575) 234-3341

**SURVEYOR CERTIFICATE**

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO, THIS 17<sup>TH</sup> DAY OF JANUARY 2022

*FILIMON F. JARAMILLO*  
FILIMON F. JARAMILLO, PLS. 12797  
301 SOUTH CANAL  
(575) 234-3341  
PROFESSIONAL SURVEYOR

MADRON SURVEYING, INC.  
301 SOUTH CANAL  
CARLSBAD, NEW MEXICO 88220  
Phone (575) 234-3341

**SURVEY NO. 9114A**

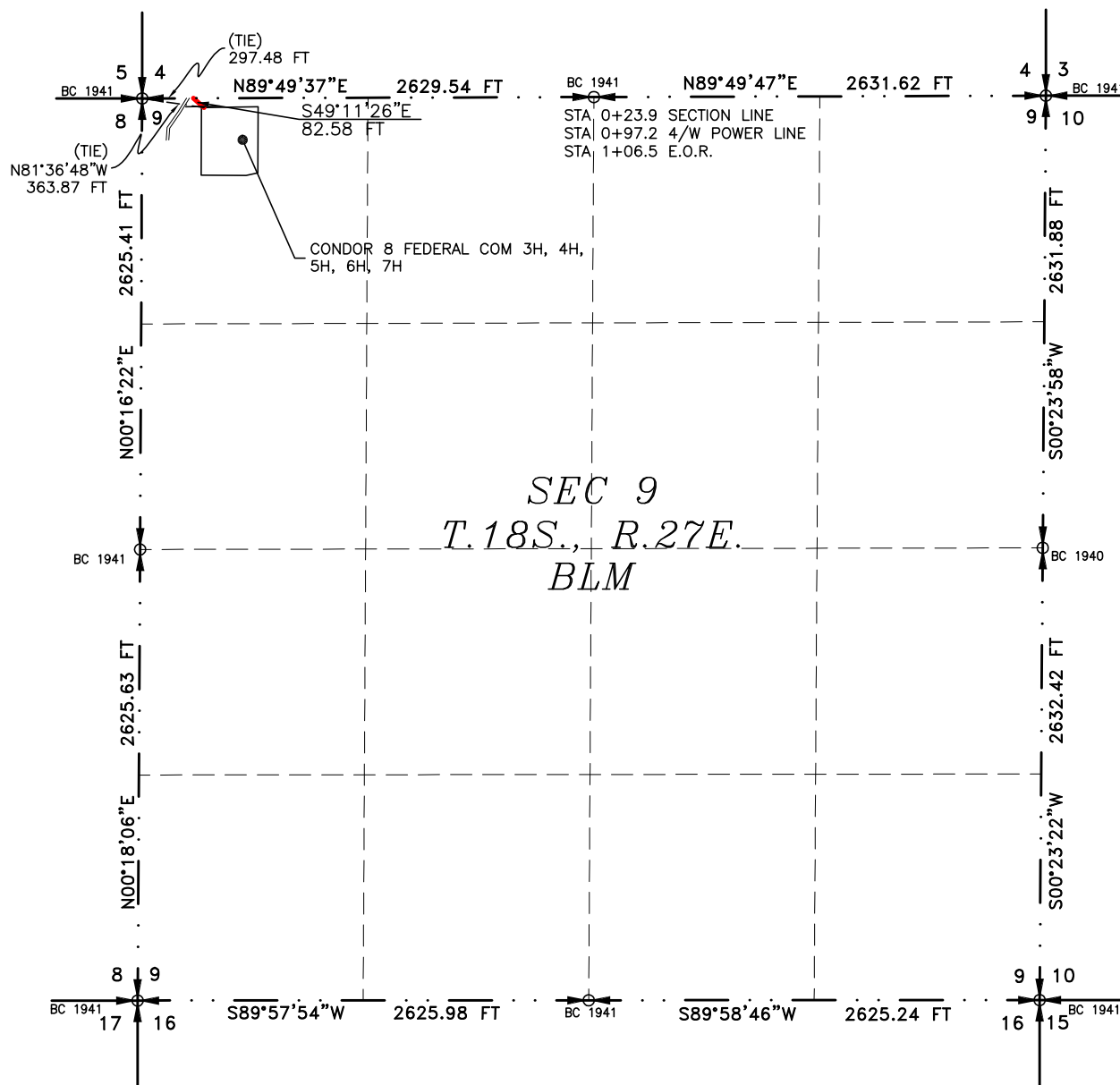
**ACCESS ROAD PLAT**

ACCESS ROAD TO THE CONDOR 8 FEDERAL COM 3H, 4H, 5H, 6H, 7H

**REDWOOD OPERATING LLC**CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING  
SECTION 9, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M.

EDDY COUNTY, STATE OF NEW MEXICO

JANUARY 17, 2022



SEE NEXT SHEET (4-4) FOR DESCRIPTION

**GENERAL NOTES**

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 3-4

MADRON SURVEYING, INC.

**SURVEYOR CERTIFICATE**

I, FILMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO, THIS 17 DAY OF JANUARY 2022

FILMON F. JARAMILLO, PLS. 12797  
 NEW MEXICO PROFESSIONAL SURVEYOR

MADRON SURVEYING, INC.  
 301 SOUTH CANAL  
 CARLSBAD, NEW MEXICO 88220  
 Phone (575) 234-3341

SURVEY NO. 9114A

CARLSBAD, NEW MEXICO



**ACCESS ROAD PLAT**

ACCESS ROAD TO THE CONDOR 8 FEDERAL COM 3H, 4H, 5H, 6H, 7H

**REDWOOD OPERATING LLC**

**CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING  
SECTION 9, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
JANUARY 17, 2022**

**DESCRIPTION**

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 9, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE NW/4 NW/4 OF SAID SECTION 9, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M., WHENCE THE NORTHWEST CORNER OF SAID SECTION 9, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS S89°49'37"W, A DISTANCE OF 297.48 FEET;  
THENCE S49°11'26"E A DISTANCE OF 82.58 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHWEST CORNER OF SAID SECTION 9, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS N81°36'48"W, A DISTANCE OF 363.87 FEET;

SAID STRIP OF LAND BEING 82.58 FEET OR 5.00 RODS IN LENGTH, CONTAINING 0.057 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 NW/4 82.58 L.F. 5.00 RODS 0.057 ACRES

**GENERAL NOTES**

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

**SHEET: 4-4**

**MADRON SURVEYING, INC.** 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220  
(575) 234-3341

**SURVEYOR CERTIFICATE**

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 17<sup>TH</sup> DAY OF JANUARY 2022



MADRON SURVEYING, INC.  
301 SOUTH CANAL  
CARLSBAD, NEW MEXICO 88220  
Phone (575) 234-3341

**SURVEY NO. 9114A**

State of New Mexico  
Energy, Minerals and Natural Resources Department  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Submit Electronically  
Via E-permitting

## NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

### Section 1 – Plan Description

Effective May 25, 2021

**I. Operator:** Redwood Operating LLC **OGRID:** 330211 **Date:** 1 / 18 / 2022

**II. Type:** ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: \_\_\_\_\_

**III. Well(s):** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

| Well Name                | API | ULSTR                   | Footages        | Anticipated Oil BBL/D | Anticipated Gas MCF/D | Anticipated Produced Water BBL/D |
|--------------------------|-----|-------------------------|-----------------|-----------------------|-----------------------|----------------------------------|
| Condor 8 Federal Com #7H |     | Unit D Sec. 9 T18S R27E | 340 FNL 575 FWL | 100                   | 100                   | 1,000                            |
|                          |     |                         |                 |                       |                       |                                  |

**IV. Central Delivery Point Name:** DCP Midstream Linam Ranch Processing Plant/ Durango Midstream [See 19.15.27.9(D)(1) NMAC]

**V. Anticipated Schedule:** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

| Well Name                | API | Spud Date | TD Reached Date | Completion Commencement Date | Initial Flow Back Date | First Production Date |
|--------------------------|-----|-----------|-----------------|------------------------------|------------------------|-----------------------|
| Condor 8 Federal Com #7H |     | 6/1/2022  | 6/20/2022       | 7/20/2022                    | 7 /20/2022             | 7/20/2022             |
|                          |     |           |                 |                              |                        |                       |

**VI. Separation Equipment:** ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

**VII. Operational Practices:** ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

**VIII. Best Management Practices:** ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

## **Section 2 – Enhanced Plan**

### **EFFECTIVE APRIL 1, 2022**

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

#### **IX. Anticipated Natural Gas Production:**

| Well | API | Anticipated Average Natural Gas Rate MCF/D | Anticipated Volume of Natural Gas for the First Year MCF |
|------|-----|--|--|
|      |     |  |  |
|      |     |  |  |

#### **X. Natural Gas Gathering System (NGGS):**

| Operator | System | ULSTR of Tie-in | Anticipated Gathering Start Date | Available Maximum Daily Capacity of System Segment Tie-in |
|----------|--------|-----------------|----------------------------------|---|
|          |        |                 |                                  |   |
|          |        |                 |                                  |   |

**XI. Map.** ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

**XII. Line Capacity.** The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

**XIII. Line Pressure.** Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

**XIV. Confidentiality:** ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.



### **Section 3 - Certifications**

**Effective May 25, 2021**

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

***If Operator checks this box, Operator will select one of the following:***

**Well Shut-In.** ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

**Venting and Flaring Plan.** ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

### **Section 4 - Notices**

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

|  |                                 |
|--|---------------------------------|
| Signature:   | <i>Deana Weaver</i>             |
| Printed Name:  | Deana Weaver                    |
| Title:   | Regulatory Technician II        |
| E-mail Address:  | regulatory@redwoodoperating.com |
| Date:  | 1/18/2022                       |
| Phone:   | 575-748-1288                    |
| <b>OIL CONSERVATION DIVISION</b><br><b>(Only applicable when submitted as a standalone form)</b> |                                 |
| Approved By:   |                                 |
| Title:   |                                 |
| Approval Date:   |                                 |
| Conditions of Approval:  |                                 |

## VI. Separation Equipment:

Redwood Operating LLC production facilities include separation equipment designed to efficiently separate gas from liquid phases to optimize gas capture based on projected and estimated volumes from the targeted pool of our completion project. Redwood Operating LLC will utilize flowback separation equipment and production separation equipment designed and built to industry specifications after the completion to optimize gas capture and send gas to sales or flare based on analytical composition. Redwood Operating LLC operates facilities that are typically multi-well facilities. Redwood Operating LLC will upgrade production separation equipment, if necessary prior to new wells being completed, if determined to be undersized or inadequate. This equipment is already on-site and tied into our sales gas lines prior to the new drill operations.

## VII. Operational Practices:

1. Subsection (A) Venting and Flaring of Natural Gas. Redwood Operating LLC understands the requirements of NMAC 19.15.27.8 which outlines that the venting and flaring of natural gas during drilling, completion or production operations that constitutes waste as defined in 19.15.2 are prohibited.
2. Subsection (B) Venting and Flaring during drilling operations. This gas capture plan is for a well being drilled.
3. Subsection (C) Venting and flaring during completion or recompletion. Flow lines will be routed for flow back fluids into a completion or storage tank and if feasible under well conditions, flare rather than vent and commence operation of a separator as soon as it is technically feasible for a separator to function.
  - At any point in the well life (completion, production, inactive) an audio, visual and olfactory inspection be performed at prescribed intervals (weekly or monthly) pursuant to Subsection D of 19.15.27.8 NMAC, to confirm that all production equipment is operating properly and there are no leaks or releases.
4. Subsection (D) Venting and flaring during production operations
  - At any point in the well life (completion, production, inactive) an audio, visual and olfactory inspection be performed at prescribed intervals (weekly or monthly) pursuant to Subsection D of 19.15.27.8 NMAC, to confirm that all production equipment is operating properly and there are no leaks or releases.
  - Monitor manual liquid unloading for wells on-site or in close proximity (<30 minutes' drive time), take reasonable actions to achieve a stabilized rate and pressure at the earliest practical time, and take reasonable actions to minimize venting to the maximum extent practicable.
  - Redwood Operating LLC will not vent or flare except during the approved activities listed in NMAC 19.15.27.8 (D) 14.
5. Subsection (E) Performance standards. All tanks and separation equipment are designed for maximum throughput and pressure to minimize waste.
  - If a flare is utilized during production operations it will have a continuous pilot and is located more than 100 feet from any known well or storage tanks.
  - At any point in the well life (completion, production, inactive) an audio, visual and olfactory inspection be performed at prescribed intervals (weekly or monthly) pursuant to Subsection D



of 19.15.27.8 NMAC, to confirm that all production equipment is operating properly and there are no leaks or releases.

6. Subsection (F) Measurement or estimation of vented and flared natural gas
  - Measurement equipment is installed to measure the volume of natural gas flared from process piping.
  - When measurement is not practicable, estimation of vented and flared natural gas will be completed as noted in 19.15.27.8 (F) 5-6.

VIII. Best Management Practices:

1. Redwood Operating LLC has adequate storage and takeaway capacity for wells it chooses to complete as the flow lines at the sites are already in place and tied into a gathering system.
2. Redwood Operating LLC will flare rather than vent vessel blowdown gas when technically feasible during active and/or planned maintenance to equipment on-site.
3. Redwood Operating LLC combusts natural gas that would otherwise be vented or flared, when technically feasible.
4. Redwood Operating LLC will shut in wells in the event of a takeaway disruption, emergency situations, or other operations where venting or flaring may occur due to equipment failures.



U.S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

# Drilling Plan Data Report

09/28/2023

APD ID: 10400082770

Submission Date: 01/20/2022

Highlighted data  
reflects the most  
recent changes

Operator Name: REDWOOD OPERATING LLC

Well Name: CONDOR 8 FEDERAL COM

Well Number: 7H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

## Section 1 - Geologic Formations

| Formation ID | Formation Name | Elevation | True Vertical | Measured Depth | Lithologies                          | Mineral Resources | Producing Formatio |
|--------------|----------------|-----------|---------------|----------------|--------------------------------------|-------------------|--------------------|
| 12217793     | QUATERNARY     | 3522      | 0             | 0              | ALLUVIUM                             | NONE              | N                  |
| 12217794     | QUEEN          | 2840      | 682           | 682            | ANHYDRITE,<br>SILTSTONE              | NATURAL GAS, OIL  | N                  |
| 12217795     | GRAYBURG       | 2476      | 1046          | 1046           | ANHYDRITE,<br>DOLOMITE,<br>SILTSTONE | NATURAL GAS, OIL  | N                  |
| 12217796     | SAN ANDRES     | 2202      | 1320          | 1320           | ANHYDRITE,<br>DOLOMITE,<br>SILTSTONE | NATURAL GAS, OIL  | N                  |
| 12217797     | GLORIETA       | 826       | 2696          | 2696           | SILTSTONE                            | NATURAL GAS, OIL  | Y                  |
| 12217798     | PADDOCK        | 755       | 2767          | 2767           | DOLOMITE                             | NATURAL GAS, OIL  | Y                  |
| 12217799     | BLINEBRY       | 216       | 3306          | 3306           | DOLOMITE                             | NATURAL GAS, OIL  | Y                  |

## Section 2 - Blowout Prevention

Pressure Rating (PSI): 3M

Rating Depth: 10465

Equipment: Rotating Head, Mud Gas Separator

Requesting Variance? NO

Variance request:

**Testing Procedure:** The BOP/BOPE test shall include a low pressure test from 250 to 300psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30minutes without a test plug. The estimated Bottom Hole at TD is 120 degrees and estimated maximum bottom hole pressure is 1644 psig (0.052\*3437' TVD\*9.2ppg) less than 2900 bottom hole pressure.

**Choke Diagram Attachment:**

NEW\_Choke\_Manifold\_3M\_20230906081959.pdf

**BOP Diagram Attachment:**

NEW\_BOP\_3M\_20230906082016.pdf

Operator Name: REDWOOD OPERATING LLC

Well Name: CONDOR 8 FEDERAL COM

Well Number: 7H

Section 3 - Casing

| Casing ID | String Type  | Hole Size | Csg Size | Condition | Standard | Tapered String | Top Set MD | Bottom Set MD | Top Set TVD | Bottom Set TVD | Top Set MSL | Bottom Set MSL | Calculated casing length MD | Grade | Weight | Joint Type  | Collapse SF | Burst SF | Joint SF Type | Joint SF | Body SF Type | Body SF |
|-----------|--------------|-----------|----------|-----------|----------|----------------|------------|---------------|-------------|----------------|-------------|----------------|-----------------------------|-------|--------|-------------|-------------|----------|---------------|----------|--------------|---------|
| 1         | SURFACE      | 17.5      | 13.375   | NEW       | API      | N              | 0          | 375           | 0           | 375            | 3522        | 3147           | 375                         | J-55  | 48     | ST&C        | 3.953       | 4.667    | BUOY          | 28.197   | BUOY         | 4.74    |
| 2         | INTERMEDIATE | 12.25     | 9.625    | NEW       | API      | N              | 0          | 1230          | 0           | 1230           | 3480        | 2292           | 1230                        | J-55  | 36     | LT&C        | 3.158       | 7.04     | BUOY          | 10.505   | BUOY         | 7.04    |
| 3         | PRODUCTION   | 8.75      | 7.0      | NEW       | API      | N              | 0          | 2525          | 0           | 2525           | 3480        | 997            | 2525                        | L-80  | 26     | LT&C        | 3.712       | 2.454    | BUOY          | 4.173    | BUOY         | 2.413   |
| 4         | PRODUCTION   | 8.75      | 7.0      | NEW       | API      | N              | 2525       | 3625          | 2525        | 3409           | 997         | 113            | 1100                        | L-80  | 26     | OTHER - BTC | 2.6         | 2.46     | BUOY          | 4.173    | BUOY         | 2.445   |
| 5         | PRODUCTION   | 8.75      | 5.5      | NEW       | API      | N              | 3675       | 10465         | 3409        | 3437           | 113         | 85             | 6790                        | L-80  | 17     | OTHER - BTC | 3.416       | 2.728    | BUOY          | 3.475    | BUOY         | 2.63    |

Casing Attachments

Casing ID: 1

String

SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Surface\_Csg\_20220118121112.pdf



**Operator Name:** REDWOOD OPERATING LLC**Well Name:** CONDOR 8 FEDERAL COM**Well Number:** 7H**Casing Attachments**

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**Casing ID:** 2      **String**      INTERMEDIATE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**Intermediate\_Csg\_20220118121143.pdf

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**Casing ID:** 3      **String**      PRODUCTION**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**Production\_Csg\_20220118121239.pdf

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**Casing ID:** 4      **String**      PRODUCTION**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**Production\_Csg\_20220118121402.pdf

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Operator Name: REDWOOD OPERATING LLC

Well Name: CONDOR 8 FEDERAL COM

Well Number: 7H

## Casing Attachments

Casing ID: 5 String PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Production\_Csg\_20220118121539.pdf

## Section 4 - Cement

| String Type | Lead/Tail | Stage Tool Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
|-------------|-----------|------------------|--------|-----------|--------------|-------|---------|-------|---------|-------------|-----------|
| PRODUCTION  | Lead      |                  | 0      | 0         | 0            | 0     | 0       | 0     | 0       | 0           | 0         |

|            |      |  |   |   |   |   |   |   |   |   |   |
|------------|------|--|---|---|---|---|---|---|---|---|---|
| PRODUCTION | Lead |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------|------|--|---|---|---|---|---|---|---|---|---|

|         |      |  |   |     |     |      |      |     |     |                |  |
|---------|------|--|---|-----|-----|------|------|-----|-----|----------------|--|
| SURFACE | Lead |  | 0 | 375 | 420 | 1.34 | 14.8 | 261 | 100 | Class C+1% PF1 | 20bbls gel spacer 50sx of 11# scavenger cement |
|---------|------|--|---|-----|-----|------|------|-----|-----|----------------|--|

|              |      |  |   |       |     |      |      |         |     |  |  |
|--------------|------|--|---|-------|-----|------|------|---------|-----|--|--|
| INTERMEDIATE | Lead |  | 0 | 1230  | 250 | 1.72 | 13.5 | 385.23  | 100 | Class C+4%PF20+1% PF1+0.125#/skP F29+.4%PF45                   | 20bbls gel spacer 50sx of 11# scavenger cement |
| INTERMEDIATE | Tail |  | 0 | 1230  | 200 | 1.34 | 14.8 | 385.23  | 100 | Class C+.1% PF1  | 20bbls gel spacer 50sx of 11# scavenger cement |
| PRODUCTION   | Lead |  | 0 | 10465 | 450 | 1.82 | 12.9 | 2643.46 | 35  | 35/65 Perlite/C 5% PF44+ 6%PF20+.2% PF13+3ppsPF42 +.4ppsPF45+. | 20bbls gel spacer 50sx of 11# scavenger cement |

**Operator Name:** REDWOOD OPERATING LLC**Well Name:** CONDOR 8 FEDERAL COM**Well Number:** 7H

| String Type | Lead/Tail | Stage Tool Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft       | Excess% | Cement type   | Additives                                       |
|-------------|-----------|------------------|--------|-----------|--------------|-------|---------|-------------|---------|---|---|
| PRODUCTION  | Tail      |                  | 0      | 1046<br>5 | 1875         | 1.48  | 13      | 2643.<br>46 | 35      | 125ppsPF29<br><br>PVL+1.3%PF44(BWOW)<br>+5%PF174+.5%PF506+0.1%PF153+.4#PF45 | 20bbbls gel spacer 50sx of 11# scavenger cement |

### Section 5 - Circulating Medium

**Mud System Type:** Closed**Will an air or gas system be Used?** NO**Description of the equipment for the circulating system in accordance with Onshore Order #2:****Diagram of the equipment for the circulating system in accordance with Onshore Order #2:****Describe what will be on location to control well or mitigate other conditions:** BOPE Brine Water**Describe the mud monitoring system utilized:** Pason PVT with Pit Volume Recorder

### Circulating Medium Table

| Top Depth | Bottom Depth | Mud Type | Min Weight (lbs/gal) | Max Weight (lbs/gal) | Density (lbs/cu ft) | Gel Strength (lbs/100 sqft) | PH | Viscosity (CP) | Salinity (ppm) | Filtration (cc) | Additional Characteristics   |
|-----------|--------------|----------|----------------------|----------------------|---------------------|-----------------------------|----|----------------|----------------|-----------------|--|
| 0         | 375          | SPUD MUD | 8.5                  | 10                   | 74.8                | 0.1                         | 11 |                | 12000          | 15              |  |
| 375       | 1230         | LSND/GEL | 8.3                  | 10                   | 74.8                | 0.1                         | 11 |                | 12000          | 15              |  |
| 1230      | 1046<br>5    | LSND/GEL | 8.3                  | 9.2                  | 74.8                | 0.1                         | 11 |                | 12000          | 15              | The estimated bottom hole at TD is 120 degrees and estimated maximum bottom hole pressure is 1644 psig (0.052*3437'TVD*9.2ppg) less than 2900 bottom hole pressure |



**Operator Name:** REDWOOD OPERATING LLC**Well Name:** CONDOR 8 FEDERAL COM**Well Number:** 7H

## Section 6 - Test, Logging, Coring

**List of production tests including testing procedures, equipment and safety measures:**

None

**List of open and cased hole logs run in the well:**

CNL/FDC,GAMMA RAY LOG,FORMATION DENSITY COMPENSATED LOG,

**Coring operation description for the well:**

Will evaluate after logging to determine the necessity for sidewall coring

## Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 1644**Anticipated Surface Pressure:** 868**Anticipated Bottom Hole Temperature(F):** 95**Anticipated abnormal pressures, temperatures, or potential geologic hazards?** NO**Describe:****Contingency Plans geohazards description:****Contingency Plans geohazards****Hydrogen Sulfide drilling operations plan required?** NO**Hydrogen sulfide drilling operations**

## Section 8 - Other Information

**Proposed horizontal/directional/multi-lateral plan submission:**

Horizontal\_Spacing\_Unit\_20220118121818.pdf

Preliminary\_Horizontal\_Plan\_1\_20220118121823.pdf

Natural\_Gas\_Management\_20220118121828.pdf

Escape\_Route\_20220118121839.pdf

H2S\_Plan\_20230817073254.pdf

Drilling\_Plan\_20230906082156.pdf

**Other proposed operations facets description:****Other proposed operations facets attachment:****Other Variance attachment:**

Variance\_request\_20220118121800.pdf

Cactus\_Wellhead\_installation\_Procedure\_20220118121807.pdf

Choke\_Hose\_Cert\_20230803091433.pdf

**Operator Name:** REDWOOD OPERATING LLC

**Well Name:** CONDOR 8 FEDERAL COM

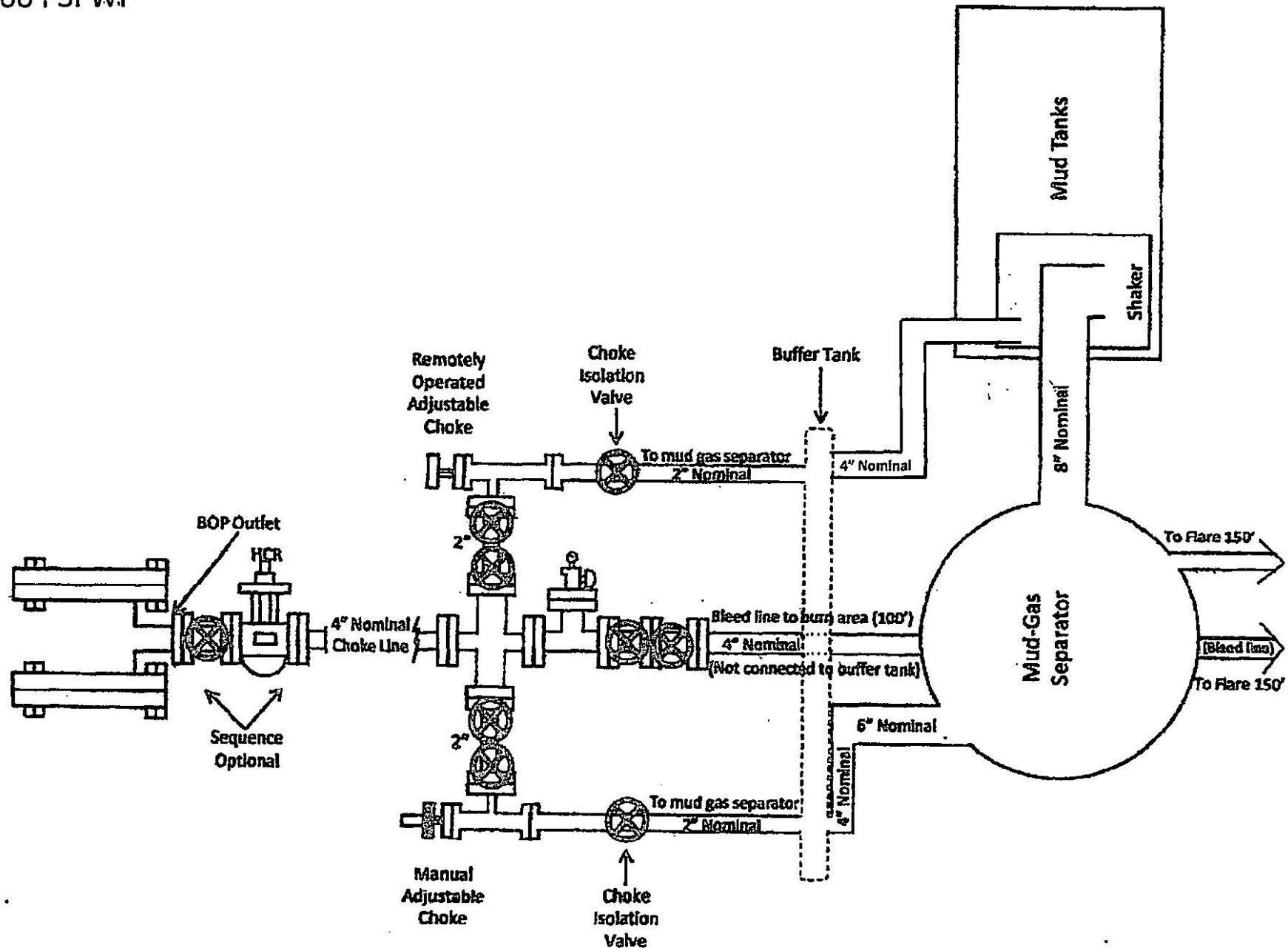
**Well Number:** 7H

CCC\_\_Rig\_6\_20230803091441.pdf

CONFIDENTIAL

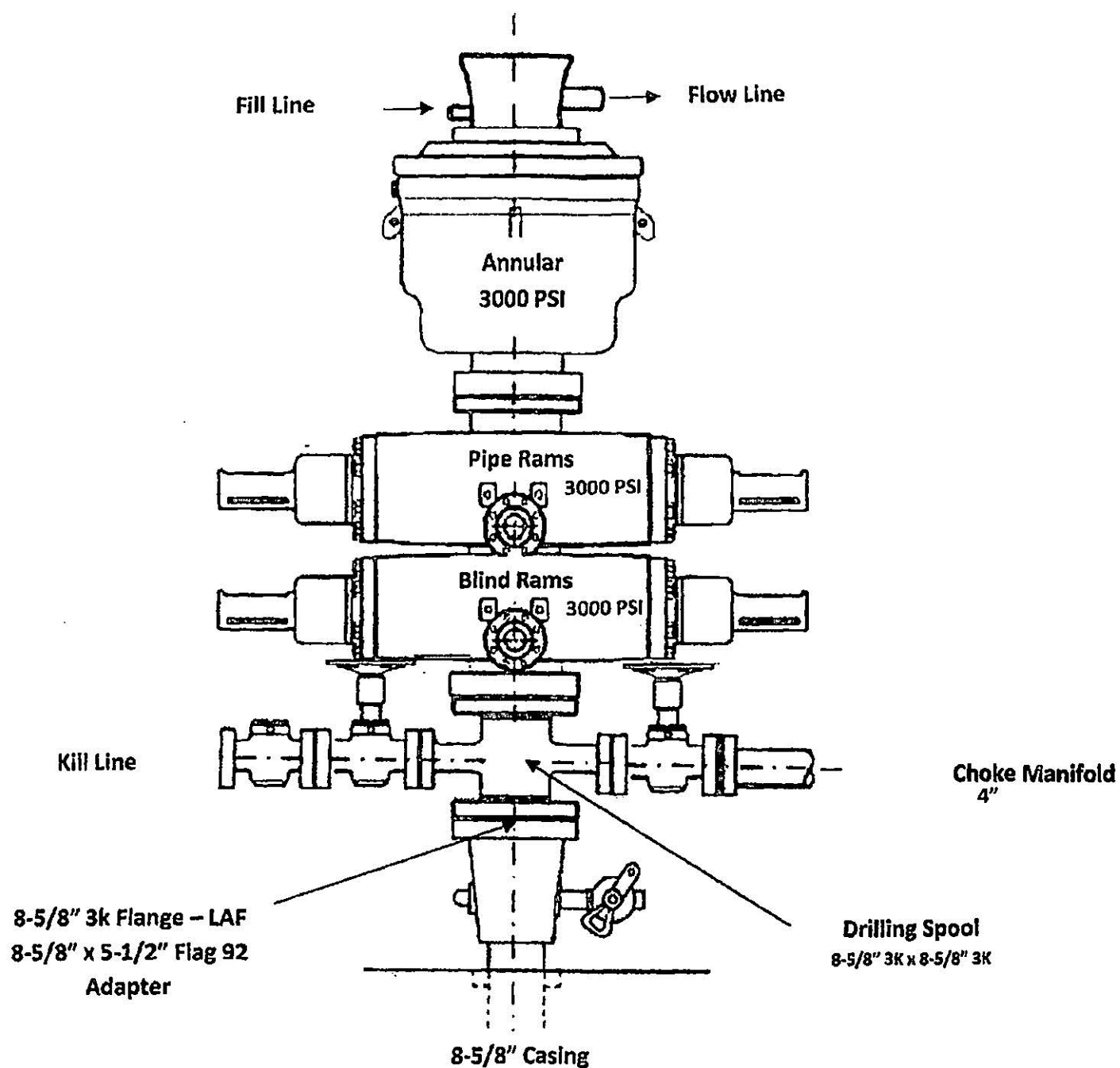
# Choke Manifold

3000 PSI WP



**BOP Diagram**

Dual Ram BOP  
3000 PSI WP





## Condor 8 Federal 7H, Plan 1

|   |  |            |         |         |               |              |   |                   |                      |         |
|---|--|------------|---------|---------|---------------|--------------|---|-------------------|----------------------|---------|
| Operator                                | Redwood Operating LLC  |            |         | Units   | feet, °/100ft |              | 10:42 Thursday, December 09, 2021 Page 1 of 5 |                   |                      |         |
| Field                                   |  |            |         | County  | Eddy          |              | Vertical Section Azimuth                      | 270.25            |                      |         |
| Well Name                               | Condor 8 Federal 7H  |            |         | State   | New Mexico    |              | Survey Calculation Method                     | Minimum Curvature |                      |         |
| Plan                                    | 1  |            |         | Country | USA           |              | Database                                      | Access            |                      |         |
| Location                                | SL: 340 FNL & 575 FWL Section 9-T18S-R27E BHL: 820 FNL & 1319 FEL Section 7-T18S-27E |            |         |         |               | Map Zone     | UTM   |                   | Lat Long Ref         |         |
| Site                                    |  |            |         |         |               | Surface X    | 1858807.7                                     |                   | Surface Long         |         |
| Slot Name                               |  | UWI        |         |         |               | Surface Y    | 11895125                                      |                   | Surface Lat          |         |
| Well Number                             | 7H   | API        |         |         |               | Surface Z    | 3540.3  |                   | Global Z Ref KB      |         |
| Project                                 |  | MD/TVD Ref | KB      |         |               | Ground Level | 3522.3  |                   | Local North Ref Grid |         |
| DIRECTIONAL WELL PLAN                   |  |            |         |         |               |              |   |                   |                      |         |
| MD*                                     | INC*   | AZI*       | TVD*    | N*      | E*            | DLS*         | V. S.*  | MapE*             | MapN*                | SysTVD* |
| ft                                      | deg  | deg        | ft      | ft      | ft            | °/100ft      | ft  | ft                | ft                   | ft      |
| *** TIE (at MD = 2539.00)               |  |            |         |         |               |              |   |                   |                      |         |
| 2539.00                                 | 0.00   | 0.0        | 2539.00 | 0.00    | 0.00          |              | 0.00  | 1858807.70        | 11895125.00          | 1001.30 |
| 2550.00                                 | 0.00   | 0.0        | 2550.00 | 0.00    | 0.00          | 0.00         | 0.00  | 1858807.70        | 11895125.00          | 990.30  |
| 2600.00                                 | 0.00   | 0.0        | 2600.00 | 0.00    | 0.00          | 0.00         | 0.00  | 1858807.70        | 11895125.00          | 940.30  |
| *** KOP 8 DEGREES (at MD = 2639.00)     |  |            |         |         |               |              |   |                   |                      |         |
| 2639.00                                 | 0.00   | 0.0        | 2639.00 | 0.00    | 0.00          | 0.00         | 0.00  | 1858807.70        | 11895125.00          | 901.30  |
| 2650.00                                 | 0.88   | 229.5      | 2650.00 | -0.05   | -0.06         | 8.00         | 0.06  | 1858807.64        | 11895124.95          | 890.30  |
| 2700.00                                 | 4.88   | 229.5      | 2699.93 | -1.69   | -1.97         | 8.00         | 1.97  | 1858805.73        | 11895123.31          | 840.37  |
| 2750.00                                 | 8.88   | 229.5      | 2749.56 | -5.58   | -6.53         | 8.00         | 6.50  | 1858801.17        | 11895119.42          | 790.74  |
| 2800.00                                 | 12.88  | 229.5      | 2798.65 | -11.70  | -13.70        | 8.00         | 13.65   | 1858794.00        | 11895113.30          | 741.65  |
| 2850.00                                 | 16.88  | 229.5      | 2846.96 | -20.04  | -23.46        | 8.00         | 23.38   | 1858784.24        | 11895104.96          | 693.34  |
| 2900.00                                 | 20.88  | 229.5      | 2894.26 | -30.55  | -35.76        | 8.00         | 35.63   | 1858771.94        | 11895094.45          | 646.04  |
| 2950.00                                 | 24.88  | 229.5      | 2940.32 | -43.17  | -50.54        | 8.00         | 50.36   | 1858757.16        | 11895081.83          | 599.98  |
| 3000.00                                 | 28.88  | 229.5      | 2984.91 | -57.85  | -67.73        | 8.00         | 67.48   | 1858739.97        | 11895067.15          | 555.39  |
| 3050.00                                 | 32.88  | 229.5      | 3027.81 | -74.51  | -87.24        | 8.00         | 86.91   | 1858720.46        | 11895050.49          | 512.49  |
| 3100.00                                 | 36.88  | 229.5      | 3068.82 | -93.08  | -108.98       | 8.00         | 108.57  | 1858698.72        | 11895031.92          | 471.48  |
| 3150.00                                 | 40.88  | 229.5      | 3107.73 | -113.45 | -132.84       | 8.00         | 132.34  | 1858674.86        | 11895011.55          | 432.57  |
| 3200.00                                 | 44.88  | 229.5      | 3144.37 | -135.55 | -158.70       | 8.00         | 158.11  | 1858649.00        | 11894989.45          | 395.93  |
| 3250.00                                 | 48.88  | 229.5      | 3178.54 | -159.24 | -186.45       | 8.00         | 185.75  | 1858621.25        | 11894965.76          | 361.76  |
| 3300.00                                 | 52.88  | 229.5      | 3210.08 | -184.43 | -215.94       | 8.00         | 215.13  | 1858591.76        | 11894940.57          | 330.22  |
| *** 55 DEGREE TANGENT (at MD = 3326.50) |  |            |         |         |               |              |   |                   |                      |         |
| 3326.50                                 | 55.00  | 229.5      | 3225.67 | -198.34 | -232.23       | 8.00         | 231.36  | 1858575.47        | 11894926.66          | 314.63  |
| 3350.00                                 | 55.00  | 229.5      | 3239.15 | -210.85 | -246.87       | 0.00         | 245.95  | 1858560.83        | 11894914.15          | 301.15  |
| 3400.00                                 | 55.00  | 229.5      | 3267.83 | -237.45 | -278.01       | 0.00         | 276.97  | 1858529.69        | 11894887.55          | 272.47  |
| 3450.00                                 | 55.00  | 229.5      | 3296.51 | -264.05 | -309.16       | 0.00         | 308.00  | 1858498.54        | 11894860.95          | 243.79  |
| 3500.00                                 | 55.00  | 229.5      | 3325.19 | -290.65 | -340.30       | 0.00         | 339.03  | 1858467.40        | 11894834.35          | 215.11  |
| 3550.00                                 | 55.00  | 229.5      | 3353.87 | -317.24 | -371.45       | 0.00         | 370.06  | 1858436.25        | 11894807.76          | 186.43  |
| *** 10 DEGREE BUILD (at MD = 3576.50)   |  |            |         |         |               |              |   |                   |                      |         |
| 3576.50                                 | 55.00  | 229.5      | 3369.07 | -331.34 | -387.95       | 0.00         | 386.50  | 1858419.75        | 11894793.66          | 171.23  |
| 3600.00                                 | 56.35  | 231.8      | 3382.32 | -343.64 | -402.96       | 10.00        | 401.46  | 1858404.74        | 11894781.36          | 157.98  |
| 3650.00                                 | 59.37  | 236.5      | 3408.93 | -368.38 | -437.29       | 10.00        | 435.68  | 1858370.41        | 11894756.62          | 131.37  |
| 3700.00                                 | 62.54  | 241.0      | 3433.21 | -391.03 | -474.66       | 10.00        | 472.95  | 1858333.04        | 11894733.97          | 107.09  |
| 3750.00                                 | 65.85  | 245.1      | 3454.98 | -411.40 | -514.77       | 10.00        | 512.97  | 1858292.93        | 11894713.60          | 85.32   |
| 3800.00                                 | 69.26  | 249.1      | 3474.07 | -429.36 | -557.33       | 10.00        | 555.46  | 1858250.37        | 11894695.64          | 66.23   |
| 3850.00                                 | 72.76  | 252.9      | 3490.34 | -444.76 | -602.02       | 10.00        | 600.07  | 1858205.68        | 11894680.24          | 49.96   |
| 3900.00                                 | 76.33  | 256.5      | 3503.66 | -457.48 | -648.48       | 10.00        | 646.48  | 1858159.22        | 11894667.52          | 36.64   |
| 3950.00                                 | 79.95  | 260.0      | 3513.94 | -467.43 | -696.38       | 10.00        | 694.33  | 1858111.32        | 11894657.57          | 26.36   |
| 4000.00                                 | 83.61  | 263.5      | 3521.09 | -474.53 | -745.34       | 10.00        | 743.26  | 1858062.36        | 11894650.47          | 19.21   |

# Condor 8 Federal 7H, Plan 1

|                                     |  |             |             |                |               |                     |   |                   |                             |                |
|-------------------------------------|--|-------------|-------------|----------------|---------------|---------------------|---|-------------------|-----------------------------|----------------|
| <b>Operator</b>                     | Redwood Operating LLC  |             |             | <b>Units</b>   | feet, °/100ft |                     | 10:42 Thursday, December 09, 2021 Page 2 of 5 |                   |                             |                |
| <b>Field</b>                        |  |             |             | <b>County</b>  | Eddy          |                     | <b>Vertical Section Azimuth</b>               | 270.25            |                             |                |
| <b>Well Name</b>                    | Condor 8 Federal 7H  |             |             | <b>State</b>   | New Mexico    |                     | <b>Survey Calculation Method</b>              | Minimum Curvature |                             |                |
| <b>Plan</b>                         | 1  |             |             | <b>Country</b> | USA           |                     | <b>Database</b>                               | Access            |                             |                |
| <b>Location</b>                     | SL: 340 FNL & 575 FWL Section 9-T18S-R27E BHL: 820 FNL & 1319 FEL Section 7-T18S-27E |             |             |                |               | <b>Map Zone</b>     | UTM   |                   | <b>Lat Long Ref</b>         |                |
| <b>Site</b>                         |  |             |             |                |               | <b>Surface X</b>    | 1858807.7                                     |                   | <b>Surface Long</b>         |                |
| <b>Slot Name</b>                    |  |             |             |                |               | <b>Surface Y</b>    | 11895125                                      |                   | <b>Surface Lat</b>          |                |
| <b>Well Number</b>                  | 7H   |             |             |                |               | <b>Surface Z</b>    | 3540.3  |                   | <b>Global Z Ref</b> KB      |                |
| <b>Project</b>                      |  |             |             |                |               | <b>Ground Level</b> | 3522.3  |                   | <b>Local North Ref</b> Grid |                |
| <b>DIRECTIONAL WELL PLAN</b>        |  |             |             |                |               |                     |   |                   |                             |                |
| <b>MD*</b>                          | <b>INC*</b>  | <b>AZI*</b> | <b>TVD*</b> | <b>N*</b>      | <b>E*</b>     | <b>DLS*</b>         | <b>V. S.*</b>                                 | <b>MapE*</b>      | <b>MapN*</b>                | <b>SysTVD*</b> |
| ft                                  | deg  | deg         | ft          | ft             | ft            | °/100ft             | ft  | ft                | ft                          | ft             |
| 4050.00                             | 87.29  | 266.9       | 3525.06     | -478.73        | -794.98       | 10.00               | 792.89  | 1858012.72        | 11894646.27                 | 15.24          |
| *** LANDING POINT (at MD = 4097.65) |  |             |             |                |               |                     |   |                   |                             |                |
| 4097.65                             | 90.80  | 270.1       | 3525.85     | -480.00        | -842.60       | 10.00               | 840.50  | 1857965.10        | 11894645.00                 | 14.45          |
| 4100.00                             | 90.80  | 270.1       | 3525.82     | -479.99        | -844.95       | 0.00                | 842.84  | 1857962.75        | 11894645.01                 | 14.48          |
| 4150.00                             | 90.80  | 270.1       | 3525.12     | -479.92        | -894.94       | 0.00                | 892.84  | 1857912.76        | 11894645.08                 | 15.18          |
| 4200.00                             | 90.80  | 270.1       | 3524.42     | -479.85        | -944.94       | 0.00                | 942.83  | 1857862.76        | 11894645.15                 | 15.88          |
| 4250.00                             | 90.80  | 270.1       | 3523.73     | -479.79        | -994.93       | 0.00                | 992.83  | 1857812.77        | 11894645.21                 | 16.58          |
| 4300.00                             | 90.80  | 270.1       | 3523.03     | -479.72        | -1044.93      | 0.00                | 1042.82                                       | 1857762.77        | 11894645.28                 | 17.27          |
| 4350.00                             | 90.80  | 270.1       | 3522.33     | -479.65        | -1094.92      | 0.00                | 1092.82                                       | 1857712.78        | 11894645.35                 | 17.97          |
| 4400.00                             | 90.80  | 270.1       | 3521.63     | -479.58        | -1144.92      | 0.00                | 1142.81                                       | 1857662.78        | 11894645.42                 | 18.67          |
| 4450.00                             | 90.80  | 270.1       | 3520.93     | -479.51        | -1194.91      | 0.00                | 1192.81                                       | 1857612.79        | 11894645.49                 | 19.37          |
| 4500.00                             | 90.80  | 270.1       | 3520.23     | -479.44        | -1244.91      | 0.00                | 1242.80                                       | 1857562.79        | 11894645.56                 | 20.07          |
| 4550.00                             | 90.80  | 270.1       | 3519.54     | -479.37        | -1294.90      | 0.00                | 1292.80                                       | 1857512.80        | 11894645.63                 | 20.76          |
| 4600.00                             | 90.80  | 270.1       | 3518.84     | -479.30        | -1344.90      | 0.00                | 1342.79                                       | 1857462.80        | 11894645.70                 | 21.46          |
| 4650.00                             | 90.80  | 270.1       | 3518.14     | -479.23        | -1394.89      | 0.00                | 1392.79                                       | 1857412.81        | 11894645.77                 | 22.16          |
| 4700.00                             | 90.80  | 270.1       | 3517.44     | -479.16        | -1444.89      | 0.00                | 1442.78                                       | 1857362.81        | 11894645.84                 | 22.86          |
| 4750.00                             | 90.80  | 270.1       | 3516.74     | -479.09        | -1494.88      | 0.00                | 1492.78                                       | 1857312.82        | 11894645.91                 | 23.56          |
| 4800.00                             | 90.80  | 270.1       | 3516.05     | -479.02        | -1544.88      | 0.00                | 1542.77                                       | 1857262.82        | 11894645.98                 | 24.25          |
| 4850.00                             | 90.80  | 270.1       | 3515.35     | -478.95        | -1594.87      | 0.00                | 1592.77                                       | 1857212.83        | 11894646.05                 | 24.95          |
| 4900.00                             | 90.80  | 270.1       | 3514.65     | -478.88        | -1644.87      | 0.00                | 1642.76                                       | 1857162.83        | 11894646.12                 | 25.65          |
| 4950.00                             | 90.80  | 270.1       | 3513.95     | -478.81        | -1694.86      | 0.00                | 1692.76                                       | 1857112.84        | 11894646.19                 | 26.35          |
| 5000.00                             | 90.80  | 270.1       | 3513.25     | -478.74        | -1744.86      | 0.00                | 1742.75                                       | 1857062.84        | 11894646.26                 | 27.05          |
| 5050.00                             | 90.80  | 270.1       | 3512.56     | -478.67        | -1794.85      | 0.00                | 1792.75                                       | 1857012.85        | 11894646.33                 | 27.74          |
| 5100.00                             | 90.80  | 270.1       | 3511.86     | -478.60        | -1844.85      | 0.00                | 1842.74                                       | 1856962.85        | 11894646.40                 | 28.44          |
| 5150.00                             | 90.80  | 270.1       | 3511.16     | -478.53        | -1894.84      | 0.00                | 1892.74                                       | 1856912.86        | 11894646.47                 | 29.14          |
| 5200.00                             | 90.80  | 270.1       | 3510.46     | -478.46        | -1944.84      | 0.00                | 1942.73                                       | 1856862.86        | 11894646.54                 | 29.84          |
| 5250.00                             | 90.80  | 270.1       | 3509.76     | -478.39        | -1994.83      | 0.00                | 1992.73                                       | 1856812.87        | 11894646.61                 | 30.54          |
| 5300.00                             | 90.80  | 270.1       | 3509.06     | -478.32        | -2044.83      | 0.00                | 2042.72                                       | 1856762.87        | 11894646.68                 | 31.24          |
| 5350.00                             | 90.80  | 270.1       | 3508.37     | -478.25        | -2094.82      | 0.00                | 2092.72                                       | 1856712.88        | 11894646.75                 | 31.93          |
| 5400.00                             | 90.80  | 270.1       | 3507.67     | -478.18        | -2144.82      | 0.00                | 2142.71                                       | 1856662.88        | 11894646.82                 | 32.63          |
| 5450.00                             | 90.80  | 270.1       | 3506.97     | -478.11        | -2194.81      | 0.00                | 2192.71                                       | 1856612.89        | 11894646.89                 | 33.33          |
| 5500.00                             | 90.80  | 270.1       | 3506.27     | -478.04        | -2244.81      | 0.00                | 2242.70                                       | 1856562.89        | 11894646.96                 | 34.03          |
| 5550.00                             | 90.80  | 270.1       | 3505.57     | -477.97        | -2294.80      | 0.00                | 2292.70                                       | 1856512.90        | 11894647.03                 | 34.73          |
| 5600.00                             | 90.80  | 270.1       | 3504.88     | -477.90        | -2344.80      | 0.00                | 2342.69                                       | 1856462.90        | 11894647.10                 | 35.42          |
| 5650.00                             | 90.80  | 270.1       | 3504.18     | -477.83        | -2394.79      | 0.00                | 2392.69                                       | 1856412.91        | 11894647.17                 | 36.12          |
| 5700.00                             | 90.80  | 270.1       | 3503.48     | -477.76        | -2444.79      | 0.00                | 2442.68                                       | 1856362.91        | 11894647.24                 | 36.82          |
| 5750.00                             | 90.80  | 270.1       | 3502.78     | -477.69        | -2494.78      | 0.00                | 2492.68                                       | 1856312.92        | 11894647.31                 | 37.52          |

## Condor 8 Federal 7H, Plan 1

|                  |                       |                |               |                                   |                   |
|------------------|-----------------------|----------------|---------------|-----------------------------------|-------------------|
| <b>Operator</b>  | Redwood Operating LLC | <b>Units</b>   | feet, °/100ft | 10:42 Thursday, December 09, 2021 | Page 3 of 5       |
| <b>Field</b>     |                       | <b>County</b>  | Eddy          | <b>Vertical Section Azimuth</b>   | 270.25            |
| <b>Well Name</b> | Condor 8 Federal 7H   | <b>State</b>   | New Mexico    | <b>Survey Calculation Method</b>  | Minimum Curvature |
| <b>Plan</b>      | 1                     | <b>Country</b> | USA           | <b>Database</b>                   | Access            |

|                    |   |                   |    |                     |           |                        |      |
|--------------------|---|-------------------|----|---------------------|-----------|------------------------|------|
| <b>Location</b>    | SL: 340 FNL & 575 FWL Section 9-T18S-R27E BHL:<br>820 FNL & 1319 FEL Section 7-T18S-27E |                   |    | <b>Map Zone</b>     | UTM       | <b>Lat Long Ref</b>    |      |
| <b>Site</b>        |   |                   |    | <b>Surface X</b>    | 1858807.7 | <b>Surface Long</b>    |      |
| <b>Slot Name</b>   |   | <b>UWI</b>        |    | <b>Surface Y</b>    | 11895125  | <b>Surface Lat</b>     |      |
| <b>Well Number</b> | 7H  | <b>API</b>        |    | <b>Surface Z</b>    | 3540.3    | <b>Global Z Ref</b>    | KB   |
| <b>Project</b>     |   | <b>MD/TVD Ref</b> | KB | <b>Ground Level</b> | 3522.3    | <b>Local North Ref</b> | Grid |

## DIRECTIONAL WELL PLAN

| MD*     | INC*  | AZI*  | TVD*    | N*      | E*       | DLS*    | V. S.*  | MapE*      | MapN*       | SysTVD* |
|---------|-------|-------|---------|---------|----------|---------|---------|------------|-------------|---------|
| ft      | deg   | deg   | ft      | ft      | ft       | °/100ft | ft      | ft         | ft          | ft      |
| 5800.00 | 90.80 | 270.1 | 3502.08 | -477.62 | -2544.78 | 0.00    | 2542.67 | 1856262.92 | 11894647.38 | 38.22   |
| 5850.00 | 90.80 | 270.1 | 3501.39 | -477.55 | -2594.77 | 0.00    | 2592.67 | 1856212.93 | 11894647.45 | 38.91   |
| 5900.00 | 90.80 | 270.1 | 3500.69 | -477.48 | -2644.77 | 0.00    | 2642.66 | 1856162.93 | 11894647.52 | 39.61   |
| 5950.00 | 90.80 | 270.1 | 3499.99 | -477.41 | -2694.76 | 0.00    | 2692.66 | 1856112.94 | 11894647.59 | 40.31   |
| 6000.00 | 90.80 | 270.1 | 3499.29 | -477.34 | -2744.76 | 0.00    | 2742.65 | 1856062.94 | 11894647.66 | 41.01   |
| 6050.00 | 90.80 | 270.1 | 3498.59 | -477.27 | -2794.75 | 0.00    | 2792.65 | 1856012.95 | 11894647.73 | 41.71   |
| 6100.00 | 90.80 | 270.1 | 3497.90 | -477.20 | -2844.75 | 0.00    | 2842.64 | 1855962.95 | 11894647.80 | 42.41   |
| 6150.00 | 90.80 | 270.1 | 3497.20 | -477.13 | -2894.75 | 0.00    | 2892.64 | 1855912.96 | 11894647.87 | 43.10   |
| 6200.00 | 90.80 | 270.1 | 3496.50 | -477.06 | -2944.74 | 0.00    | 2942.63 | 1855862.96 | 11894647.94 | 43.80   |
| 6250.00 | 90.80 | 270.1 | 3495.80 | -476.99 | -2994.74 | 0.00    | 2992.63 | 1855812.96 | 11894648.01 | 44.50   |
| 6300.00 | 90.80 | 270.1 | 3495.10 | -476.92 | -3044.73 | 0.00    | 3042.62 | 1855762.97 | 11894648.08 | 45.20   |
| 6350.00 | 90.80 | 270.1 | 3494.40 | -476.85 | -3094.73 | 0.00    | 3092.62 | 1855712.97 | 11894648.15 | 45.90   |
| 6400.00 | 90.80 | 270.1 | 3493.71 | -476.78 | -3144.72 | 0.00    | 3142.61 | 1855662.98 | 11894648.22 | 46.59   |
| 6450.00 | 90.80 | 270.1 | 3493.01 | -476.71 | -3194.72 | 0.00    | 3192.61 | 1855612.98 | 11894648.29 | 47.29   |
| 6500.00 | 90.80 | 270.1 | 3492.31 | -476.64 | -3244.71 | 0.00    | 3242.60 | 1855562.99 | 11894648.36 | 47.99   |
| 6550.00 | 90.80 | 270.1 | 3491.61 | -476.57 | -3294.71 | 0.00    | 3292.59 | 1855512.99 | 11894648.43 | 48.69   |
| 6600.00 | 90.80 | 270.1 | 3490.91 | -476.50 | -3344.70 | 0.00    | 3342.59 | 1855463.00 | 11894648.50 | 49.39   |
| 6650.00 | 90.80 | 270.1 | 3490.22 | -476.43 | -3394.70 | 0.00    | 3392.58 | 1855413.00 | 11894648.57 | 50.08   |
| 6700.00 | 90.80 | 270.1 | 3489.52 | -476.36 | -3444.69 | 0.00    | 3442.58 | 1855363.01 | 11894648.64 | 50.78   |
| 6750.00 | 90.80 | 270.1 | 3488.82 | -476.29 | -3494.69 | 0.00    | 3492.57 | 1855313.01 | 11894648.71 | 51.48   |
| 6800.00 | 90.80 | 270.1 | 3488.12 | -476.23 | -3544.68 | 0.00    | 3542.57 | 1855263.02 | 11894648.78 | 52.18   |
| 6850.00 | 90.80 | 270.1 | 3487.42 | -476.16 | -3594.68 | 0.00    | 3592.56 | 1855213.02 | 11894648.84 | 52.88   |
| 6900.00 | 90.80 | 270.1 | 3486.73 | -476.09 | -3644.67 | 0.00    | 3642.56 | 1855163.03 | 11894648.91 | 53.57   |
| 6950.00 | 90.80 | 270.1 | 3486.03 | -476.02 | -3694.67 | 0.00    | 3692.55 | 1855113.03 | 11894648.98 | 54.27   |
| 7000.00 | 90.80 | 270.1 | 3485.33 | -475.95 | -3744.66 | 0.00    | 3742.55 | 1855063.04 | 11894649.05 | 54.97   |
| 7050.00 | 90.80 | 270.1 | 3484.63 | -475.88 | -3794.66 | 0.00    | 3792.54 | 1855013.04 | 11894649.12 | 55.67   |
| 7100.00 | 90.80 | 270.1 | 3483.93 | -475.81 | -3844.65 | 0.00    | 3842.54 | 1854963.05 | 11894649.19 | 56.37   |
| 7150.00 | 90.80 | 270.1 | 3483.23 | -475.74 | -3894.65 | 0.00    | 3892.53 | 1854913.05 | 11894649.26 | 57.07   |
| 7200.00 | 90.80 | 270.1 | 3482.54 | -475.67 | -3944.64 | 0.00    | 3942.53 | 1854863.06 | 11894649.33 | 57.76   |
| 7250.00 | 90.80 | 270.1 | 3481.84 | -475.60 | -3994.64 | 0.00    | 3992.52 | 1854813.06 | 11894649.40 | 58.46   |
| 7300.00 | 90.80 | 270.1 | 3481.14 | -475.53 | -4044.63 | 0.00    | 4042.52 | 1854763.07 | 11894649.47 | 59.16   |
| 7350.00 | 90.80 | 270.1 | 3480.44 | -475.46 | -4094.63 | 0.00    | 4092.51 | 1854713.07 | 11894649.54 | 59.86   |
| 7400.00 | 90.80 | 270.1 | 3479.74 | -475.39 | -4144.62 | 0.00    | 4142.51 | 1854663.08 | 11894649.61 | 60.56   |
| 7450.00 | 90.80 | 270.1 | 3479.05 | -475.32 | -4194.62 | 0.00    | 4192.50 | 1854613.08 | 11894649.68 | 61.25   |
| 7500.00 | 90.80 | 270.1 | 3478.35 | -475.25 | -4244.61 | 0.00    | 4242.50 | 1854563.09 | 11894649.75 | 61.95   |
| 7550.00 | 90.80 | 270.1 | 3477.65 | -475.18 | -4294.61 | 0.00    | 4292.49 | 1854513.09 | 11894649.82 | 62.65   |
| 7600.00 | 90.80 | 270.1 | 3476.95 | -475.11 | -4344.60 | 0.00    | 4342.49 | 1854463.10 | 11894649.89 | 63.35   |

## Condor 8 Federal 7H, Plan 1

|                       |  |       |         |         |               |              |   |                   |                      |         |
|-----------------------|--|-------|---------|---------|---------------|--------------|---|-------------------|----------------------|---------|
| Operator              | Redwood Operating LLC  |       |         | Units   | feet, °/100ft |              | 10:42 Thursday, December 09, 2021 Page 4 of 5 |                   |                      |         |
| Field                 |  |       |         | County  | Eddy          |              | Vertical Section Azimuth                      | 270.25            |                      |         |
| Well Name             | Condor 8 Federal 7H  |       |         | State   | New Mexico    |              | Survey Calculation Method                     | Minimum Curvature |                      |         |
| Plan                  | 1  |       |         | Country | USA           |              | Database                                      | Access            |                      |         |
| Location              | SL: 340 FNL & 575 FWL Section 9-T18S-R27E BHL: 820 FNL & 1319 FEL Section 7-T18S-27E |       |         |         |               | Map Zone     | UTM   |                   | Lat Long Ref         |         |
| Site                  |  |       |         |         |               | Surface X    | 1858807.7                                     |                   | Surface Long         |         |
| Slot Name             |  |       |         |         |               | Surface Y    | 11895125                                      |                   | Surface Lat          |         |
| Well Number           | 7H   |       |         |         |               | Surface Z    | 3540.3  |                   | Global Z Ref KB      |         |
| Project               | MD/TVD Ref KB  |       |         |         |               | Ground Level | 3522.3  |                   | Local North Ref Grid |         |
| DIRECTIONAL WELL PLAN |  |       |         |         |               |              |   |                   |                      |         |
| MD*                   | INC*   | AZI*  | TVD*    | N*      | E*            | DLS*         | V. S.*  | MapE*             | MapN*                | SysTVD* |
| ft                    | deg  | deg   | ft      | ft      | ft            | °/100ft      | ft  | ft                | ft                   | ft      |
| 7650.00               | 90.80  | 270.1 | 3476.25 | -475.04 | -4394.60      | 0.00         | 4392.48                                       | 1854413.10        | 11894649.96          | 64.05   |
| 7700.00               | 90.80  | 270.1 | 3475.56 | -474.97 | -4444.59      | 0.00         | 4442.48                                       | 1854363.11        | 11894650.03          | 64.74   |
| 7750.00               | 90.80  | 270.1 | 3474.86 | -474.90 | -4494.59      | 0.00         | 4492.47                                       | 1854313.11        | 11894650.10          | 65.44   |
| 7800.00               | 90.80  | 270.1 | 3474.16 | -474.83 | -4544.58      | 0.00         | 4542.47                                       | 1854263.12        | 11894650.17          | 66.14   |
| 7850.00               | 90.80  | 270.1 | 3473.46 | -474.76 | -4594.58      | 0.00         | 4592.46                                       | 1854213.12        | 11894650.24          | 66.84   |
| 7900.00               | 90.80  | 270.1 | 3472.76 | -474.69 | -4644.57      | 0.00         | 4642.46                                       | 1854163.13        | 11894650.31          | 67.54   |
| 7950.00               | 90.80  | 270.1 | 3472.06 | -474.62 | -4694.57      | 0.00         | 4692.45                                       | 1854113.13        | 11894650.38          | 68.24   |
| 8000.00               | 90.80  | 270.1 | 3471.37 | -474.55 | -4744.56      | 0.00         | 4742.45                                       | 1854063.14        | 11894650.45          | 68.93   |
| 8050.00               | 90.80  | 270.1 | 3470.67 | -474.48 | -4794.56      | 0.00         | 4792.44                                       | 1854013.14        | 11894650.52          | 69.63   |
| 8100.00               | 90.80  | 270.1 | 3469.97 | -474.41 | -4844.55      | 0.00         | 4842.44                                       | 1853963.15        | 11894650.59          | 70.33   |
| 8150.00               | 90.80  | 270.1 | 3469.27 | -474.34 | -4894.55      | 0.00         | 4892.43                                       | 1853913.15        | 11894650.66          | 71.03   |
| 8200.00               | 90.80  | 270.1 | 3468.57 | -474.27 | -4944.54      | 0.00         | 4942.43                                       | 1853863.16        | 11894650.73          | 71.73   |
| 8250.00               | 90.80  | 270.1 | 3467.88 | -474.20 | -4994.54      | 0.00         | 4992.42                                       | 1853813.16        | 11894650.80          | 72.42   |
| 8300.00               | 90.80  | 270.1 | 3467.18 | -474.13 | -5044.53      | 0.00         | 5042.42                                       | 1853763.17        | 11894650.87          | 73.12   |
| 8350.00               | 90.80  | 270.1 | 3466.48 | -474.06 | -5094.53      | 0.00         | 5092.41                                       | 1853713.17        | 11894650.94          | 73.82   |
| 8400.00               | 90.80  | 270.1 | 3465.78 | -473.99 | -5144.52      | 0.00         | 5142.41                                       | 1853663.18        | 11894651.01          | 74.52   |
| 8450.00               | 90.80  | 270.1 | 3465.08 | -473.92 | -5194.52      | 0.00         | 5192.40                                       | 1853613.18        | 11894651.08          | 75.22   |
| 8500.00               | 90.80  | 270.1 | 3464.39 | -473.85 | -5244.51      | 0.00         | 5242.40                                       | 1853563.19        | 11894651.15          | 75.91   |
| 8550.00               | 90.80  | 270.1 | 3463.69 | -473.78 | -5294.51      | 0.00         | 5292.39                                       | 1853513.19        | 11894651.22          | 76.61   |
| 8600.00               | 90.80  | 270.1 | 3462.99 | -473.71 | -5344.50      | 0.00         | 5342.39                                       | 1853463.20        | 11894651.29          | 77.31   |
| 8650.00               | 90.80  | 270.1 | 3462.29 | -473.64 | -5394.50      | 0.00         | 5392.38                                       | 1853413.20        | 11894651.36          | 78.01   |
| 8700.00               | 90.80  | 270.1 | 3461.59 | -473.57 | -5444.49      | 0.00         | 5442.38                                       | 1853363.21        | 11894651.43          | 78.71   |
| 8750.00               | 90.80  | 270.1 | 3460.90 | -473.50 | -5494.49      | 0.00         | 5492.37                                       | 1853313.21        | 11894651.50          | 79.40   |
| 8800.00               | 90.80  | 270.1 | 3460.20 | -473.43 | -5544.48      | 0.00         | 5542.37                                       | 1853263.22        | 11894651.57          | 80.10   |
| 8850.00               | 90.80  | 270.1 | 3459.50 | -473.36 | -5594.48      | 0.00         | 5592.36                                       | 1853213.22        | 11894651.64          | 80.80   |
| 8900.00               | 90.80  | 270.1 | 3458.80 | -473.29 | -5644.47      | 0.00         | 5642.36                                       | 1853163.23        | 11894651.71          | 81.50   |
| 8950.00               | 90.80  | 270.1 | 3458.10 | -473.22 | -5694.47      | 0.00         | 5692.35                                       | 1853113.23        | 11894651.78          | 82.20   |
| 9000.00               | 90.80  | 270.1 | 3457.40 | -473.15 | -5744.46      | 0.00         | 5742.35                                       | 1853063.24        | 11894651.85          | 82.90   |
| 9050.00               | 90.80  | 270.1 | 3456.71 | -473.08 | -5794.46      | 0.00         | 5792.34                                       | 1853013.24        | 11894651.92          | 83.59   |
| 9100.00               | 90.80  | 270.1 | 3456.01 | -473.01 | -5844.45      | 0.00         | 5842.34                                       | 1852963.25        | 11894651.99          | 84.29   |
| 9150.00               | 90.80  | 270.1 | 3455.31 | -472.94 | -5894.45      | 0.00         | 5892.33                                       | 1852913.25        | 11894652.06          | 84.99   |
| 9200.00               | 90.80  | 270.1 | 3454.61 | -472.87 | -5944.44      | 0.00         | 5942.32                                       | 1852863.26        | 11894652.13          | 85.69   |
| 9250.00               | 90.80  | 270.1 | 3453.91 | -472.80 | -5994.44      | 0.00         | 5992.32                                       | 1852813.26        | 11894652.20          | 86.39   |
| 9300.00               | 90.80  | 270.1 | 3453.22 | -472.73 | -6044.43      | 0.00         | 6042.31                                       | 1852763.27        | 11894652.27          | 87.08   |
| 9350.00               | 90.80  | 270.1 | 3452.52 | -472.66 | -6094.43      | 0.00         | 6092.31                                       | 1852713.27        | 11894652.34          | 87.78   |
| 9400.00               | 90.80  | 270.1 | 3451.82 | -472.60 | -6144.43      | 0.00         | 6142.30                                       | 1852663.27        | 11894652.41          | 88.48   |
| 9450.00               | 90.80  | 270.1 | 3451.12 | -472.53 | -6194.42      | 0.00         | 6192.30                                       | 1852613.28        | 11894652.47          | 89.18   |



## Condor 8 Federal 7H, Plan 1

|                  |                       |                |               |                                   |                   |
|------------------|-----------------------|----------------|---------------|-----------------------------------|-------------------|
| <b>Operator</b>  | Redwood Operating LLC | <b>Units</b>   | feet, °/100ft | 10:42 Thursday, December 09, 2021 | Page 5 of 5       |
| <b>Field</b>     |                       | <b>County</b>  | Eddy          | <b>Vertical Section Azimuth</b>   | 270.25            |
| <b>Well Name</b> | Condor 8 Federal 7H   | <b>State</b>   | New Mexico    | <b>Survey Calculation Method</b>  | Minimum Curvature |
| <b>Plan</b>      | 1                     | <b>Country</b> | USA           | <b>Database</b>                   | Access            |

|                    |   |                   |    |                     |           |                        |      |
|--------------------|---|-------------------|----|---------------------|-----------|------------------------|------|
| <b>Location</b>    | SL: 340 FNL & 575 FWL Section 9-T18S-R27E BHL:<br>820 FNL & 1319 FEL Section 7-T18S-27E |                   |    | <b>Map Zone</b>     | UTM       | <b>Lat Long Ref</b>    |      |
| <b>Site</b>        |   |                   |    | <b>Surface X</b>    | 1858807.7 | <b>Surface Long</b>    |      |
| <b>Slot Name</b>   |   | <b>UWI</b>        |    | <b>Surface Y</b>    | 11895125  | <b>Surface Lat</b>     |      |
| <b>Well Number</b> | 7H  | <b>API</b>        |    | <b>Surface Z</b>    | 3540.3    | <b>Global Z Ref</b>    | KB   |
| <b>Project</b>     |   | <b>MD/TVD Ref</b> | KB | <b>Ground Level</b> | 3522.3    | <b>Local North Ref</b> | Grid |

### DIRECTIONAL WELL PLAN

| MD*                       | INC*  | AZI*  | TVD*    | N*      | E*       | DLS*    | V. S.*  | MapE*      | MapN*       | SysTVD* |
|---------------------------|-------|-------|---------|---------|----------|---------|---------|------------|-------------|---------|
| ft                        | deg   | deg   | ft      | ft      | ft       | °/100ft | ft      | ft         | ft          | ft      |
| 9500.00                   | 90.80 | 270.1 | 3450.42 | -472.46 | -6244.42 | 0.00    | 6242.29 | 1852563.28 | 11894652.54 | 89.88   |
| 9550.00                   | 90.80 | 270.1 | 3449.73 | -472.39 | -6294.41 | 0.00    | 6292.29 | 1852513.29 | 11894652.61 | 90.57   |
| 9600.00                   | 90.80 | 270.1 | 3449.03 | -472.32 | -6344.41 | 0.00    | 6342.28 | 1852463.29 | 11894652.68 | 91.27   |
| 9650.00                   | 90.80 | 270.1 | 3448.33 | -472.25 | -6394.40 | 0.00    | 6392.28 | 1852413.30 | 11894652.75 | 91.97   |
| 9700.00                   | 90.80 | 270.1 | 3447.63 | -472.18 | -6444.40 | 0.00    | 6442.27 | 1852363.30 | 11894652.82 | 92.67   |
| 9750.00                   | 90.80 | 270.1 | 3446.93 | -472.11 | -6494.39 | 0.00    | 6492.27 | 1852313.31 | 11894652.89 | 93.37   |
| 9800.00                   | 90.80 | 270.1 | 3446.23 | -472.04 | -6544.39 | 0.00    | 6542.26 | 1852263.31 | 11894652.96 | 94.07   |
| 9850.00                   | 90.80 | 270.1 | 3445.54 | -471.97 | -6594.38 | 0.00    | 6592.26 | 1852213.32 | 11894653.03 | 94.76   |
| 9900.00                   | 90.80 | 270.1 | 3444.84 | -471.90 | -6644.38 | 0.00    | 6642.25 | 1852163.32 | 11894653.10 | 95.46   |
| 9950.00                   | 90.80 | 270.1 | 3444.14 | -471.83 | -6694.37 | 0.00    | 6692.25 | 1852113.33 | 11894653.17 | 96.16   |
| 10000.00                  | 90.80 | 270.1 | 3443.44 | -471.76 | -6744.37 | 0.00    | 6742.24 | 1852063.33 | 11894653.24 | 96.86   |
| 10050.00                  | 90.80 | 270.1 | 3442.74 | -471.69 | -6794.36 | 0.00    | 6792.24 | 1852013.34 | 11894653.31 | 97.56   |
| 10100.00                  | 90.80 | 270.1 | 3442.05 | -471.62 | -6844.36 | 0.00    | 6842.23 | 1851963.34 | 11894653.38 | 98.25   |
| 10150.00                  | 90.80 | 270.1 | 3441.35 | -471.55 | -6894.35 | 0.00    | 6892.23 | 1851913.35 | 11894653.45 | 98.95   |
| 10200.00                  | 90.80 | 270.1 | 3440.65 | -471.48 | -6944.35 | 0.00    | 6942.22 | 1851863.35 | 11894653.52 | 99.65   |
| 10250.00                  | 90.80 | 270.1 | 3439.95 | -471.41 | -6994.34 | 0.00    | 6992.22 | 1851813.36 | 11894653.59 | 100.35  |
| 10300.00                  | 90.80 | 270.1 | 3439.25 | -471.34 | -7044.34 | 0.00    | 7042.21 | 1851763.36 | 11894653.66 | 101.05  |
| 10350.00                  | 90.80 | 270.1 | 3438.56 | -471.27 | -7094.33 | 0.00    | 7092.21 | 1851713.37 | 11894653.73 | 101.74  |
| 10400.00                  | 90.80 | 270.1 | 3437.86 | -471.20 | -7144.33 | 0.00    | 7142.20 | 1851663.37 | 11894653.80 | 102.44  |
| 10450.00                  | 90.80 | 270.1 | 3437.16 | -471.13 | -7194.32 | 0.00    | 7192.20 | 1851613.38 | 11894653.87 | 103.14  |
| *** TD (at MD = 10464.65) |       |       |         |         |          |         |         |            |             |         |
| 10464.65                  | 90.80 | 270.1 | 3436.95 | -471.11 | -7208.97 | 0.00    | 7206.85 | 1851598.73 | 11894653.89 | 103.35  |

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

|                       |                                  |
|-----------------------|----------------------------------|
| OPERATOR'S NAME:      | REDWOOD OPERATING LLC            |
| WELL NAME & NO.:      | CONDOR 8 FED COM 7H              |
| SURFACE HOLE FOOTAGE: | 340'/N & 575'/W                  |
| BOTTOM HOLE FOOTAGE:  | 820'/N & 1319'/E                 |
| LOCATION:             | Section 9, T.18 S., R.27 E., NMP |
| COUNTY:               | Eddy County, New Mexico          |

COA

|                                  |  |   |  |
|----------------------------------|--|---|--|
| H2S                              | <input checked="" type="radio"/> Yes                   | <input type="radio"/> No                      |  |
| Potash                           | <input checked="" type="radio"/> None                  | <input type="radio"/> Secretary               | <input type="radio"/> R-111-P                      |
| Cave/Karst Potential             | <input type="radio"/> Low                              | <input type="radio"/> Medium                  | <input checked="" type="radio"/> High              |
| Cave/Karst Potential             | <input type="radio"/> Critical                         |   |  |
| Variance                         | <input type="radio"/> None                             | <input checked="" type="radio"/> Flex Hose    | <input type="radio"/> Other                        |
| Wellhead                         | <input type="radio"/> Conventional                     | <input checked="" type="radio"/> Multibowl    | <input type="radio"/> Both                         |
| Wellhead Variance                | <input type="radio"/> Diverter                         |   |  |
| Other                            | <input type="checkbox"/> 4 String                      | <input type="checkbox"/> Capitan Reef         | <input type="checkbox"/> WIPP                      |
| Other                            | <input type="checkbox"/> Fluid Filled                  | <input type="checkbox"/> Pilot Hole           | <input type="checkbox"/> Open Annulus              |
| Cementing                        | <input type="checkbox"/> Contingency<br>Cement Squeeze | <input type="checkbox"/> EchoMeter            | <input type="checkbox"/> Primary Cement<br>Squeeze |
| Special Requirements             | <input type="checkbox"/> Water Disposal                | <input checked="" type="checkbox"/> COM       | <input type="checkbox"/> Unit                      |
| Special Requirements             | <input type="checkbox"/> Batch Sundry                  |   |  |
| Special Requirements<br>Variance | <input type="checkbox"/> Break Testing                 | <input type="checkbox"/> Offline<br>Cementing | <input type="checkbox"/> Casing<br>Clearance       |

### A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet 43 CFR part 3170 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

### B. CASING

#### Primary Casing Design:

1. The 13-3/8 inch surface casing shall be set at approximately **375 feet** (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable

fresh water) and cemented to the surface. The surface hole shall be **17 1/2** inch in diameter.

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The **9-5/8** inch intermediate casing shall be set at approximately **1320 feet**. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:
- Cement to surface. If cement does not circulate see B.1.a, c-d above.  
**Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**
- ❖ In High Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
3. The minimum required fill of cement behind the **7 X 5.5 inch** production casing is:
- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.  
**Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

## C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **13-3/8** inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M)** psi.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR part 3170 must be followed.

#### **D. SPECIAL REQUIREMENT (S)**

##### **Communitization Agreement**

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR part 3170.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

## **GENERAL REQUIREMENTS**

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ Eddy County

**EMAIL** or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

**[BLM\\_NM\\_CFO\\_DrillingNotifications@BLM.GOV](mailto:BLM_NM_CFO_DrillingNotifications@BLM.GOV)**

(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,  
(575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - Notify the BLM when moving in and removing the Spudder Rig.
    - Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

#### A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24



hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic

pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR part 3170 must be followed.
  - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
  - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
  - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing

valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR part 3170 Subpart 3172**.

#### C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

#### D. WASTE MATERIAL AND FLUIDS

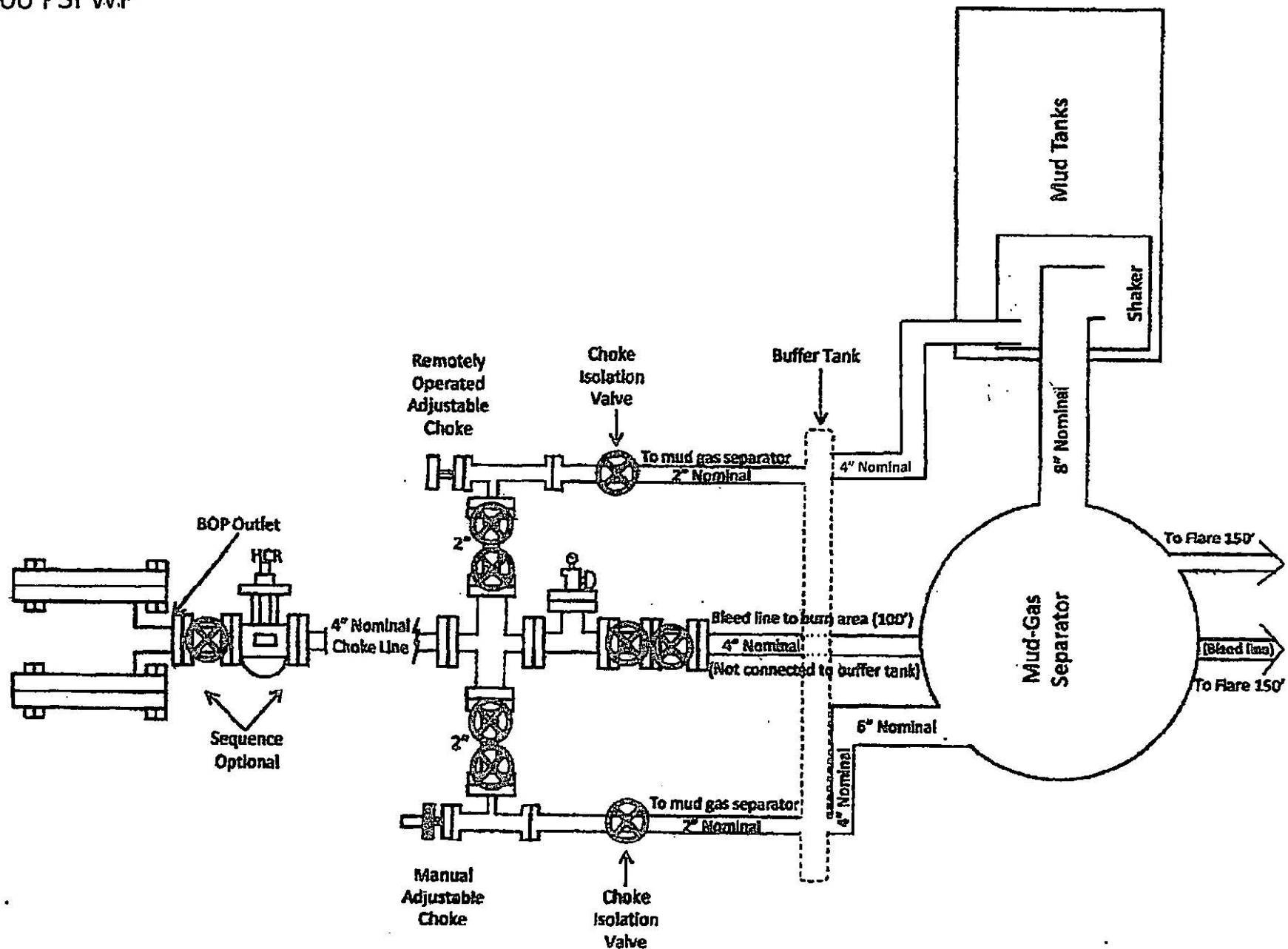
All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

JS 9/25/2023

# Choke Manifold

3000 PSI WP

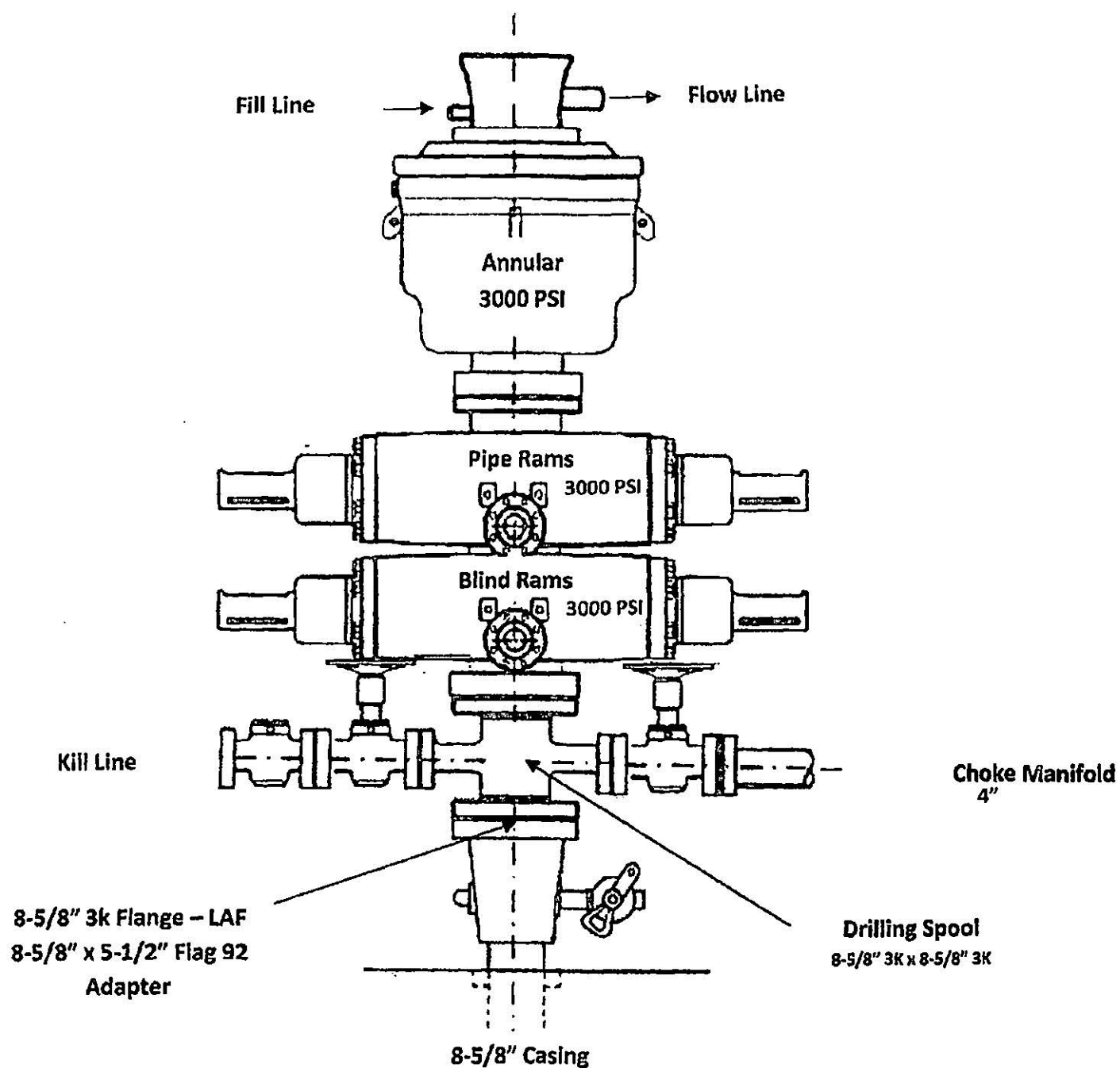




**BOP Diagram**

Dual Ram BOP

3000 PSI WP



Intent ☒ As Drilled ☐

|  |   |                          |
|--|---|--------------------------|
| API #  |   |                          |
| Operator Name:<br><b>REDWOOD OPERATING LLC</b> | Property Name:<br><b>CONDOR 8 FEDERAL COM</b> | Well Number<br><b>7H</b> |

Kick Off Point (KOP)

|                               |                     |                        |                     |     |                                 |                          |                    |                         |                       |
|-------------------------------|---------------------|------------------------|---------------------|-----|---------------------------------|--------------------------|--------------------|-------------------------|-----------------------|
| UL<br><b>D</b>                | Section<br><b>9</b> | Township<br><b>18S</b> | Range<br><b>27E</b> | Lot | Feet<br><b>340</b>              | From N/S<br><b>NORTH</b> | Feet<br><b>575</b> | From E/W<br><b>WEST</b> | County<br><b>EDDY</b> |
| Latitude<br><b>32.7686000</b> |                     |                        |                     |     | Longitude<br><b>104.2901047</b> |                          |                    | NAD<br><b>83</b>        |                       |

First Take Point (FTP)

|                               |                     |                        |                     |     |                                 |                          |                    |                         |                       |
|-------------------------------|---------------------|------------------------|---------------------|-----|---------------------------------|--------------------------|--------------------|-------------------------|-----------------------|
| UL<br><b>A</b>                | Section<br><b>8</b> | Township<br><b>18S</b> | Range<br><b>27E</b> | Lot | Feet<br><b>820</b>              | From N/S<br><b>NORTH</b> | Feet<br><b>100</b> | From E/W<br><b>EAST</b> | County<br><b>EDDY</b> |
| Latitude<br><b>32.7672772</b> |                     |                        |                     |     | Longitude<br><b>104.2923084</b> |                          |                    | NAD<br><b>83</b>        |                       |

Last Take Point (LTP)

|                               |                     |                        |                     |     |                                 |                          |                     |                         |                       |
|-------------------------------|---------------------|------------------------|---------------------|-----|---------------------------------|--------------------------|---------------------|-------------------------|-----------------------|
| UL<br><b>A</b>                | Section<br><b>7</b> | Township<br><b>18S</b> | Range<br><b>27E</b> | Lot | Feet<br><b>820</b>              | From N/S<br><b>NORTH</b> | Feet<br><b>1220</b> | From E/W<br><b>EAST</b> | County<br><b>EDDY</b> |
| Latitude<br><b>32.7673548</b> |                     |                        |                     |     | Longitude<br><b>104.3131015</b> |                          |                     | NAD<br><b>83</b>        |                       |

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

|                |                |             |
|----------------|----------------|-------------|
| API #          |                |             |
| Operator Name: | Property Name: | Well Number |

KZ 06/29/2018



U.S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

# Drilling Plan Data Report

09/28/2023

APD ID: 10400082770

Submission Date: 01/20/2022

Highlighted data  
reflects the most  
recent changes

Operator Name: REDWOOD OPERATING LLC

Well Name: CONDOR 8 FEDERAL COM

Well Number: 7H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

## Section 1 - Geologic Formations

| Formation ID | Formation Name | Elevation | True Vertical | Measured Depth | Lithologies                    | Mineral Resources | Producing Formatio |
|--------------|----------------|-----------|---------------|----------------|--------------------------------|-------------------|--------------------|
| 12217793     | QUATERNARY     | 3522      | 0             | 0              | ALLUVIUM                       | NONE              | N                  |
| 12217794     | QUEEN          | 2840      | 682           | 682            | ANHYDRITE, SILTSTONE           | NATURAL GAS, OIL  | N                  |
| 12217795     | GRAYBURG       | 2476      | 1046          | 1046           | ANHYDRITE, DOLOMITE, SILTSTONE | NATURAL GAS, OIL  | N                  |
| 12217796     | SAN ANDRES     | 2202      | 1320          | 1320           | ANHYDRITE, DOLOMITE, SILTSTONE | NATURAL GAS, OIL  | N                  |
| 12217797     | GLORIETA       | 826       | 2696          | 2696           | SILTSTONE                      | NATURAL GAS, OIL  | Y                  |
| 12217798     | PADDOCK        | 755       | 2767          | 2767           | DOLOMITE                       | NATURAL GAS, OIL  | Y                  |
| 12217799     | BLINEBRY       | 216       | 3306          | 3306           | DOLOMITE                       | NATURAL GAS, OIL  | Y                  |

## Section 2 - Blowout Prevention

Pressure Rating (PSI): 3M

Rating Depth: 10465

Equipment: Rotating Head, Mud Gas Separator

Requesting Variance? NO

Variance request:

**Testing Procedure:** The BOP/BOPE test shall include a low pressure test from 250 to 300psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30minutes without a test plug. The estimated Bottom Hole at TD is 120 degrees and estimated maximum bottom hole pressure is 1644 psig (0.052\*3437' TVD\*9.2ppg) less than 2900 bottom hole pressure.

**Choke Diagram Attachment:**

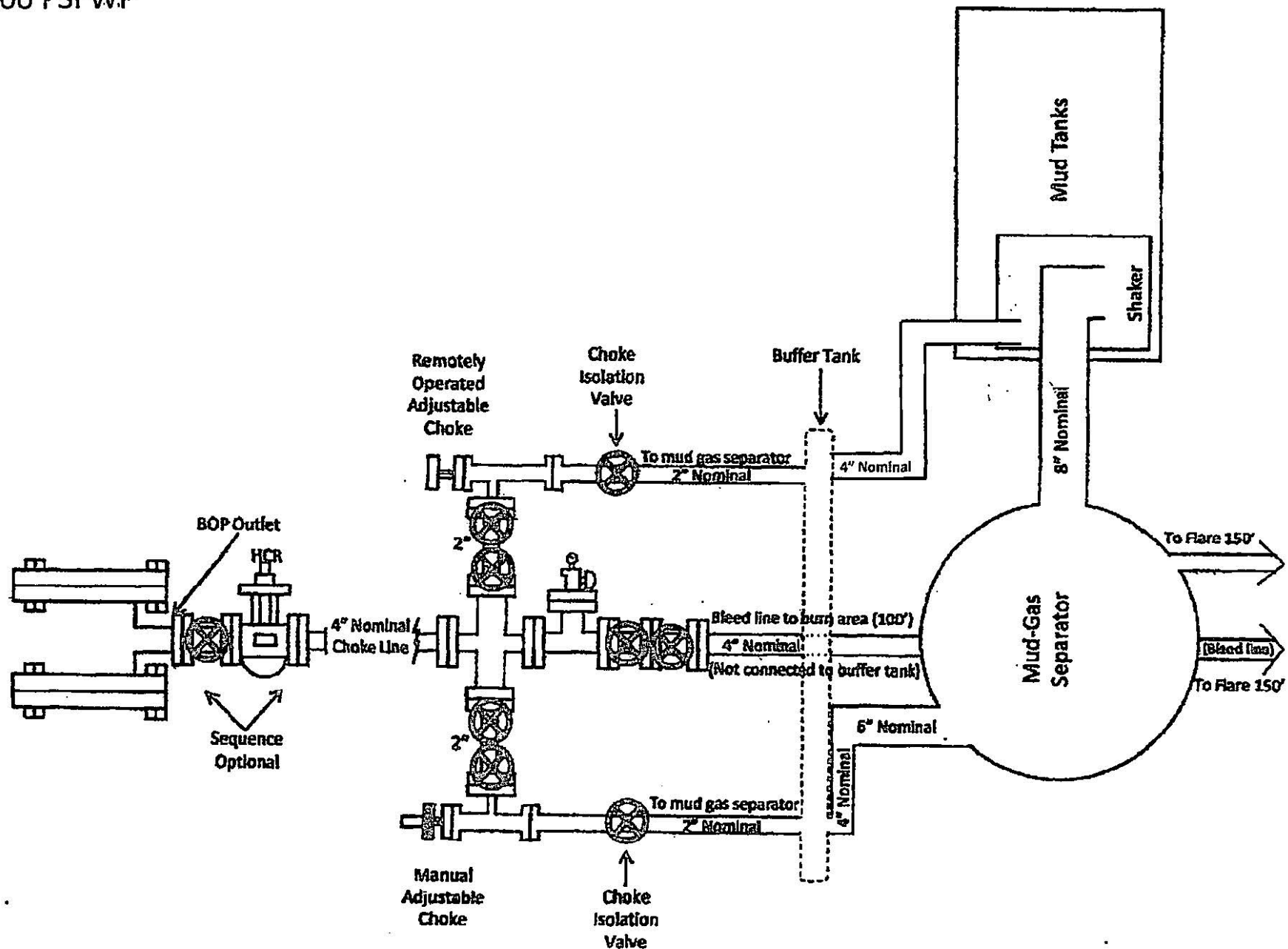
NEW\_Choke\_Manifold\_3M\_20230906081959.pdf

**BOP Diagram Attachment:**

NEW\_BOP\_3M\_20230906082016.pdf

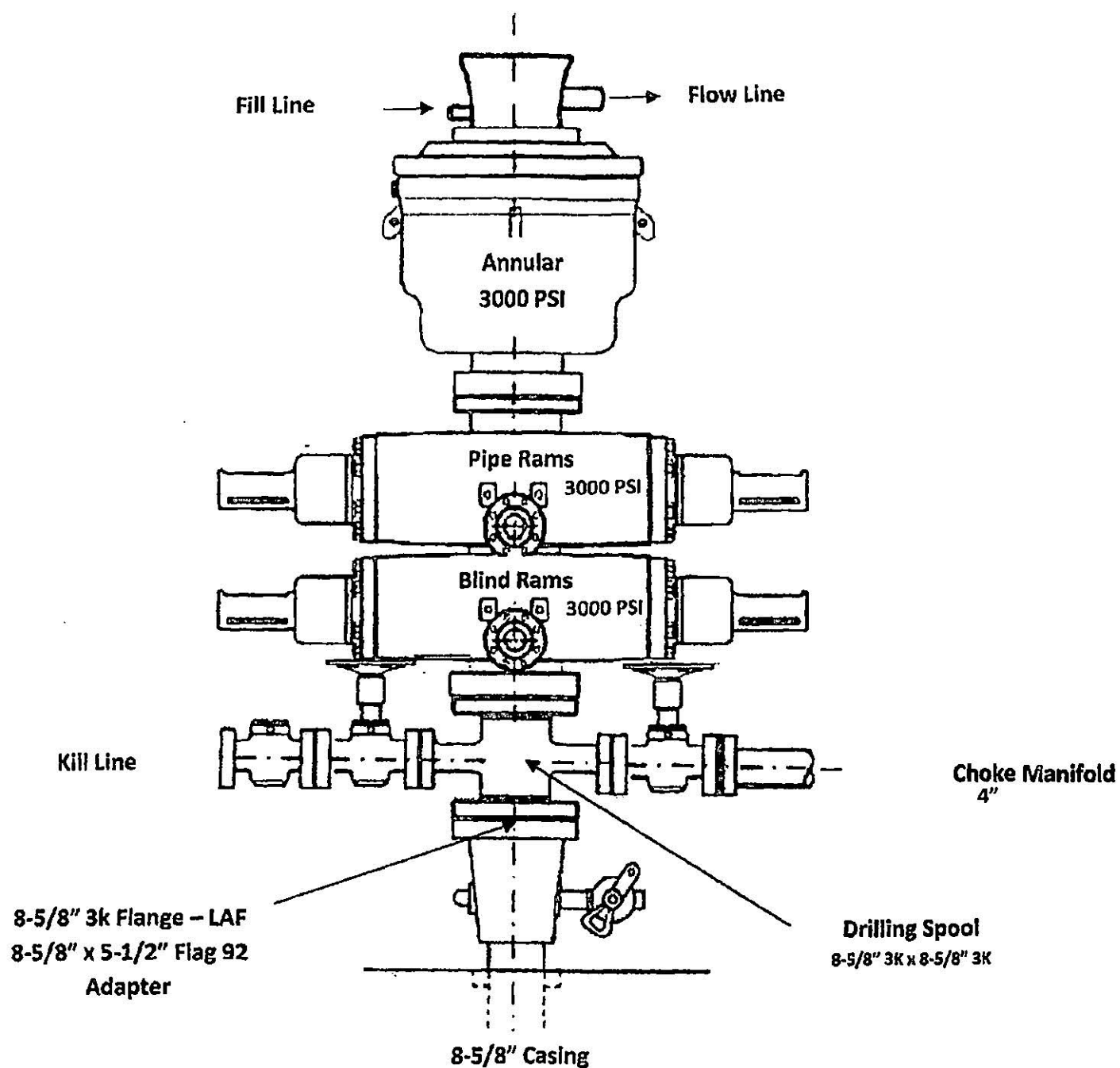
# Choke Manifold

3000 PSI WP



**BOP Diagram**

Dual Ram BOP  
3000 PSI WP





**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS

Action 270293

**CONDITIONS**

|  |   |
|--|---|
| Operator:<br>Redwood Operating LLC<br>PO Box 1370<br>Artesia, NM 88210 | OGRID:<br>330211  |
|  | Action Number:<br>270293  |
|  | Action Type:<br>[C-101] BLM - Federal/Indian Land Lease (Form 3160-3) |

**CONDITIONS**

| Created By  | Condition  | Condition Date |
|-------------|--|----------------|
| ward.rikala | Notify OCD 24 hours prior to casing & cement   | 10/2/2023      |
| ward.rikala | Will require a File As Drilled C-102 and a Directional Survey with the C-104   | 10/2/2023      |
| ward.rikala | Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string | 10/2/2023      |
| ward.rikala | Cement is required to circulate on both surface and intermediate1 strings of casing  | 10/2/2023      |
| ward.rikala | If cement does not circulate on any string, a CBL is required for that string of casing  | 10/2/2023      |
| ward.rikala | Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system                  | 10/2/2023      |