

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		5. Lease Serial No.
1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address		9. API Well No. <span style="border: 1px solid red; padding: 2px;">30-015-54275</span>
3b. Phone No. (include area code)		10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		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)

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>1. Well plat certified by a registered surveyor.</li> <li>2. A Drilling Plan.</li> <li>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).</li> </ul> | <ul style="list-style-type: none"> <li>4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).</li> <li>5. Operator certification.</li> <li>6. Such other site specific information and/or plans as may be requested by the BLM.</li> </ul> |
|---|---|

25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
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.  
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 & 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 <b>30-015-54275</b>	<sup>2</sup> Pool Code <b>51120</b>	<sup>3</sup> Pool Name <b>Red Lake; Glorieta Yeso</b>
<sup>4</sup> Property Code <b>334754</b>	<sup>5</sup> Property Name <b>COMPTON 5 FEDERAL COM</b>	
<sup>7</sup> OGRID No. <b>330211</b>	<sup>8</sup> Operator Name <b>REDWOOD OPERATING, LLC</b>	<sup>6</sup> Well Number <b>1H</b>
		<sup>9</sup> Elevation <b>3533.0</b>

<sup>10</sup> Surface Location

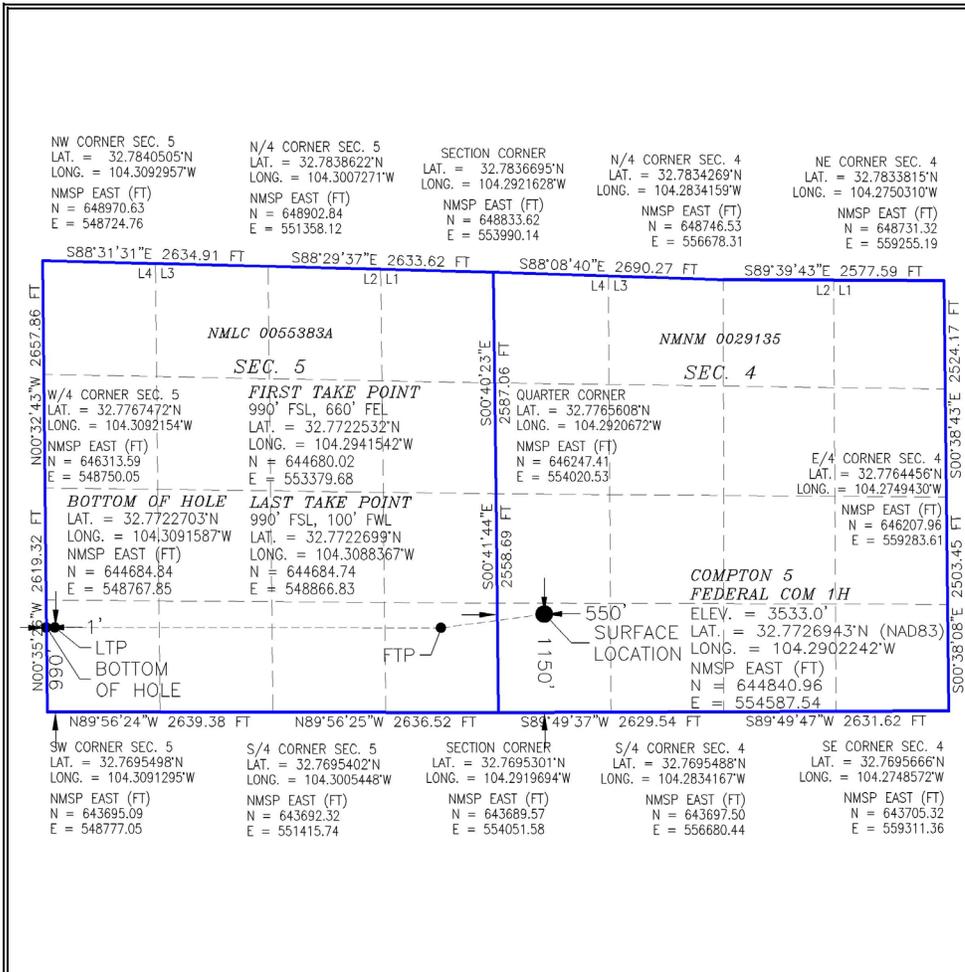
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>M</b>	<b>4</b>	<b>18 S</b>	<b>27 E</b>		<b>1150</b>	<b>SOUTH</b>	<b>550</b>	<b>WEST</b>	<b>EDDY</b>

<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>M</b>	<b>5</b>	<b>18 S</b>	<b>27 E</b>		<b>990</b>	<b>SOUTH</b>	<b>1</b>	<b>WEST</b>	<b>EDDY</b>

<sup>12</sup> Dedicated Acres <b>160</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.



**<sup>17</sup> OPERATOR CERTIFICATION**

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.

*Deana Weaver* 4/17/2023  
Signature Date

**Deana Weaver**  
Printed Name

**dweaver@mec.com**  
E-mail Address

**<sup>18</sup> SURVEYOR CERTIFICATION**

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.

FEBRUARY 22, 2023  
Date of Survey

*[Signature]*  
Signature and Seal of Professional Surveyor

Certificate Number: **12797**  
**JARAMILLO, L.S. 12797**  
**PROFESSIONAL SURVEYOR**  
**NO. 8548B**

Intent   As Drilled

API #		
Operator Name: REDWOOD OPERATING, LLC	Property Name: COMPTON 5 FEDERAL COM	Well Number 1H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
M	4	18S	27E		1150	SOUTH	550	WEST	EDDY
Latitude 32.7726943					Longitude 104.2902242				NAD 83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
P	5	18S	27E		990	SOUTH	660	EAST	LEA
Latitude 32.7722532					Longitude 104.2941542				NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
M	5	18S	27E		990	SOUTH	100	WEST	LEA
Latitude 32.7722699					Longitude 104.3088367				NAD 83

Is this well the defining well for the Horizontal Spacing Unit?

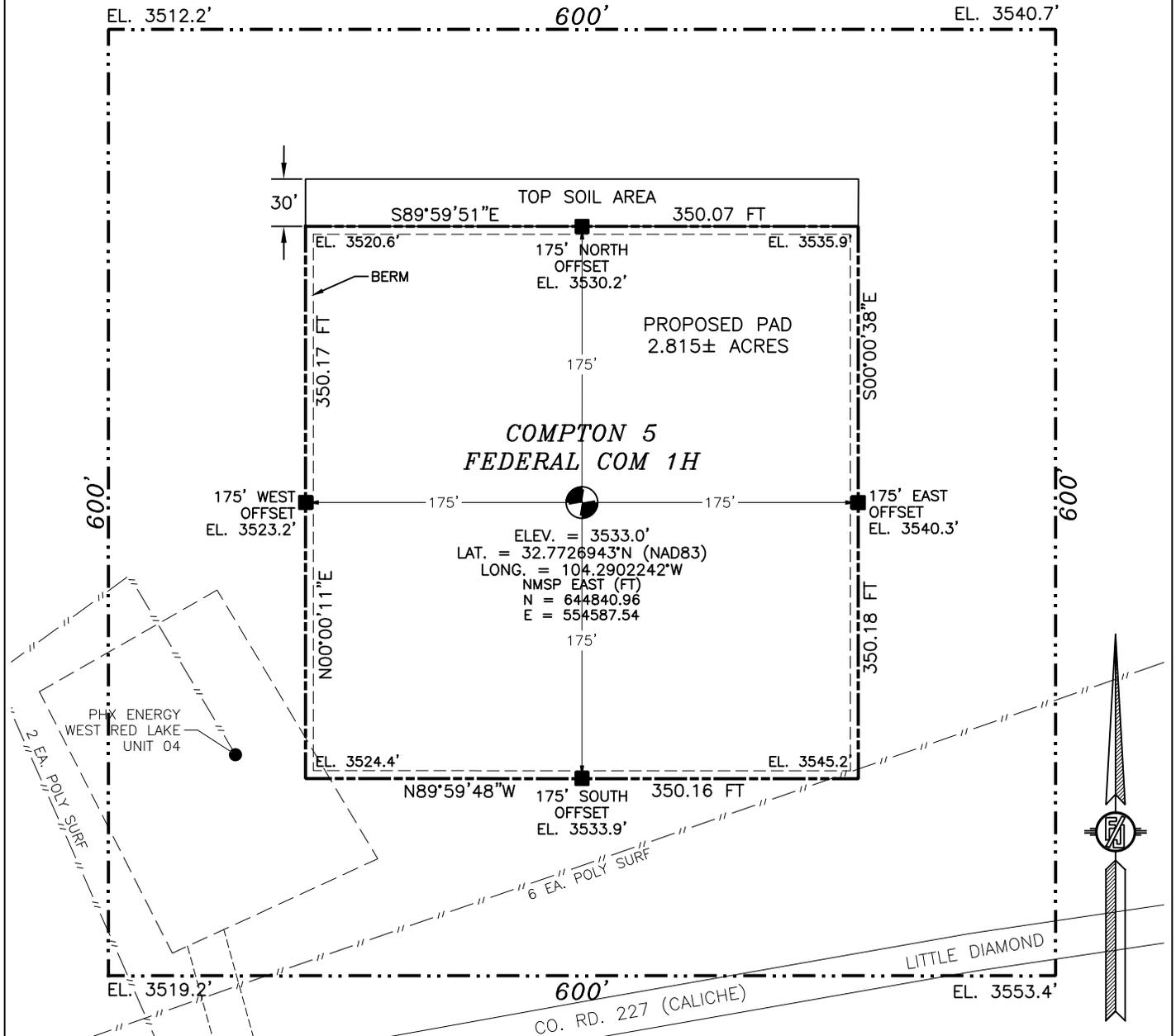
Is this well an infill well?

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

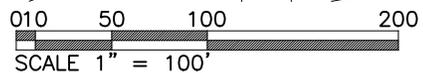
API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

# SECTION 4, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO SITE MAP



ELEV. = 3533.0'  
 LAT. = 32.7726943°N (NAD83)  
 LONG. = 104.2902242°W  
 NMSP EAST (FT)  
 N = 644840.96  
 E = 554587.54



**DIRECTIONS TO LOCATION**  
 FROM THE INTERSECTION OF CO. RD. 201 (CHALK BLUFF) & CO. RD. 227 (LITTLE DIAMOND), GO SOUTHEAST ON CO. RD. 227 APPROX. 0.3 MILES, TURN LEFT (NORTH) ONTO PHX ENERGY PAD AND SOUTHWEST PAD CORNER FOR THIS LOCATION.

**REDWOOD OPERATING, LLC**  
**COMPTON 5 FEDERAL COM 1H**  
 LOCATED 1150 FT. FROM THE SOUTH LINE  
 AND 550 FT. FROM THE WEST LINE OF  
 SECTION 4, TOWNSHIP 18 SOUTH,  
 RANGE 27 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 22, 2023

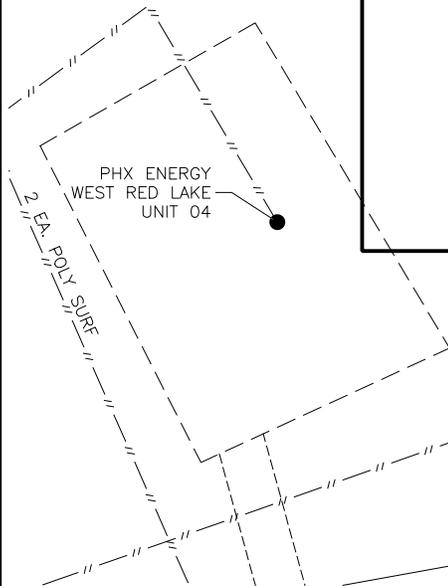
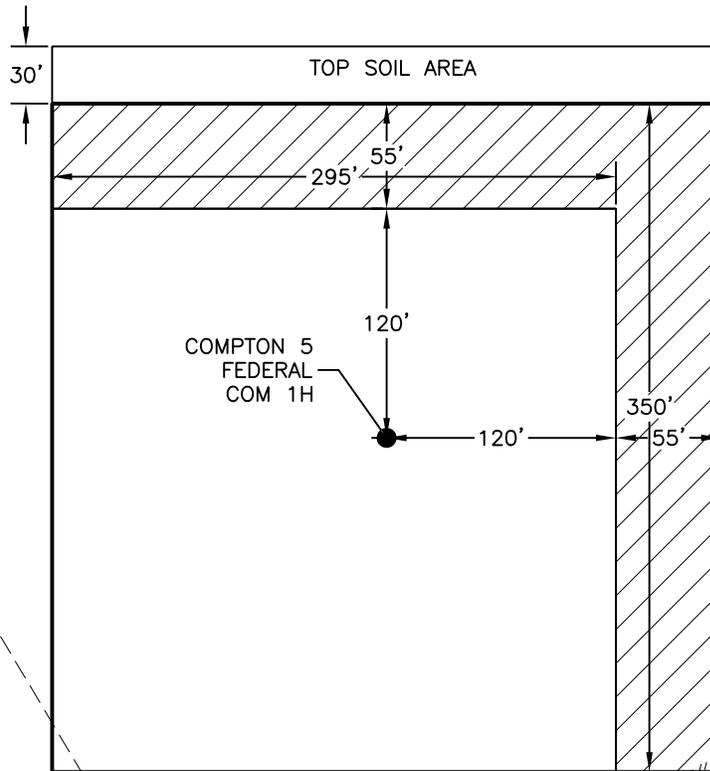
SURVEY NO. 8548B

I, FILIMON F. JARAMILLO, A NEW MEXICO LICENSED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND WAS RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND THAT I AM NOT PROVIDING ANY MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

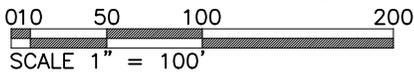
**MADRON SURVEYING, INC.** 301 SOUTH CANAL CARLSBAD, NEW MEXICO  
 (575) 234-3327

SECTION 4, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
INTERIM SITE RECLAMATION

 DENOTES RECLAMATION AREA  
0.815± ACRES RECLAMATION AREA



CO. RD. 227 (CALICHE)  
LITTLE DIAMOND



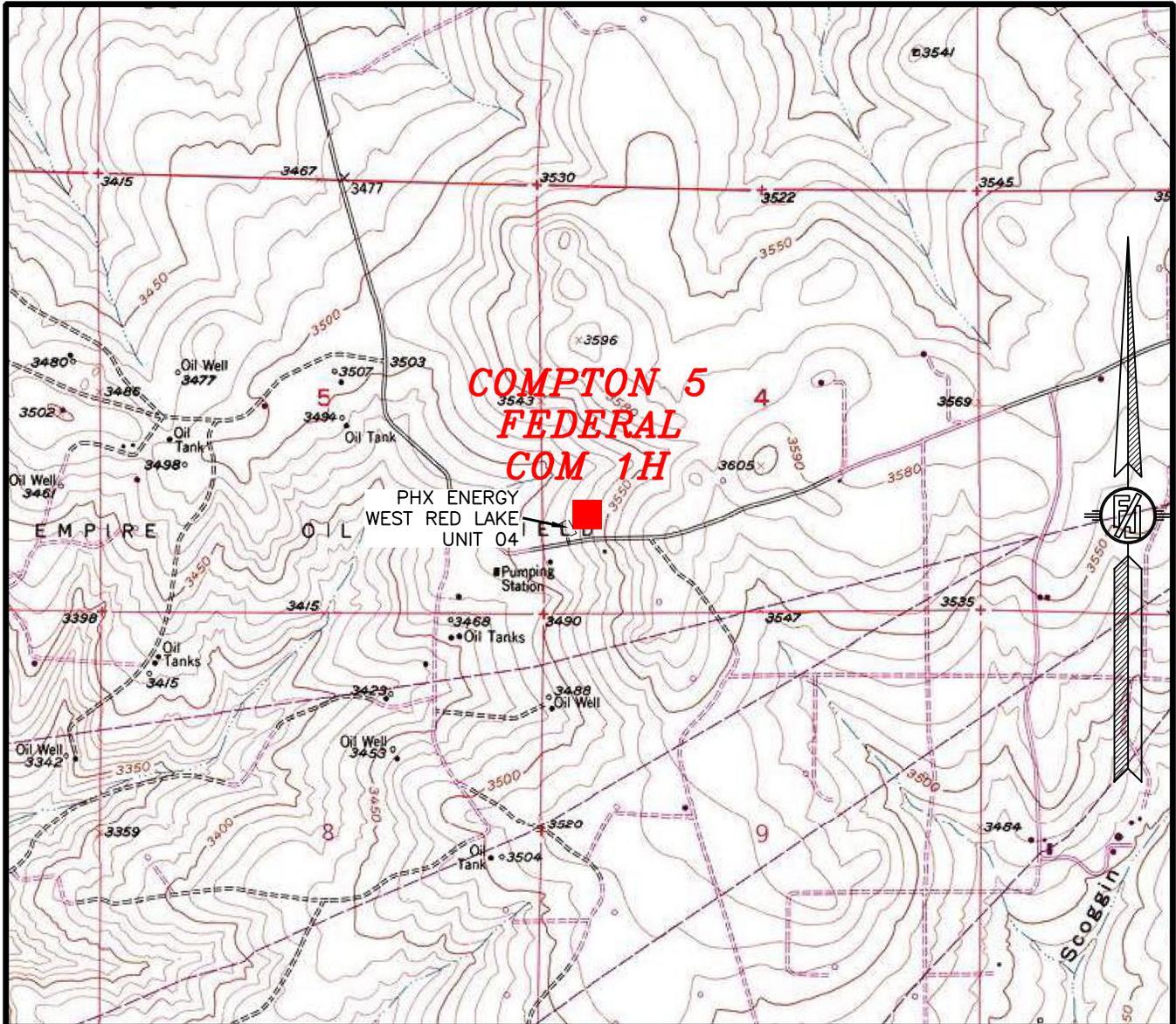
REDWOOD OPERATING, LLC  
**COMPTON 5 FEDERAL COM 1H**  
LOCATED 1150 FT. FROM THE SOUTH LINE  
AND 550 FT. FROM THE WEST LINE OF  
SECTION 4, TOWNSHIP 18 SOUTH,  
RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 22, 2023

SURVEY NO. 8548B

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO  
(575) 234-3327

SECTION 4, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
LOCATION VERIFICATION MAP



USGS QUAD MAP:  
SPRING LAKE

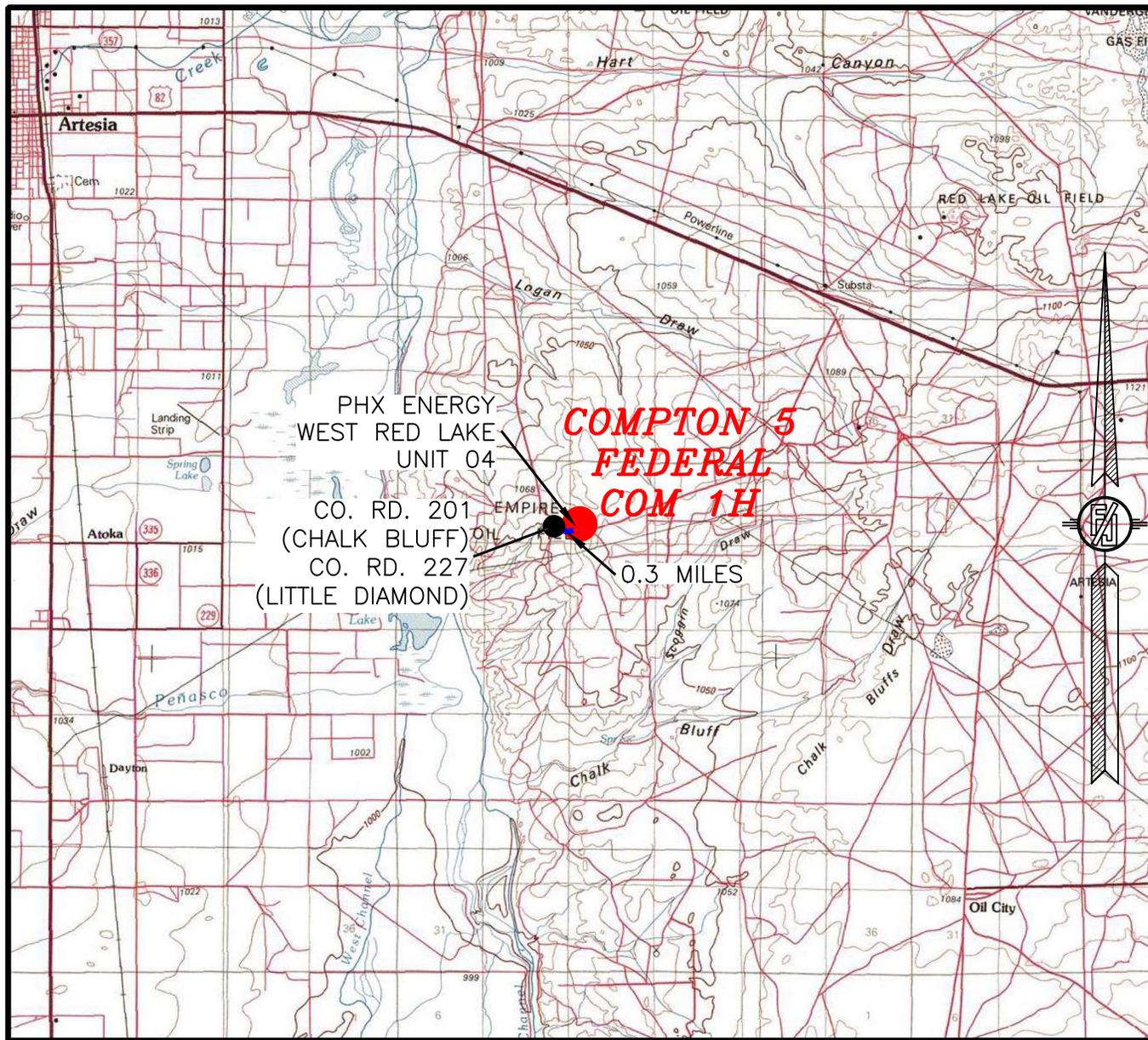
NOT TO SCALE

REDWOOD OPERATING, LLC  
COMPTON 5 FEDERAL COM 1H  
LOCATED 1150 FT. FROM THE SOUTH LINE  
AND 550 FT. FROM THE WEST LINE OF  
SECTION 4, TOWNSHIP 18 SOUTH,  
RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 22, 2023

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO SURVEY NO. 8548B  
(575) 234-3327

# SECTION 4, 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 THE INTERSECTION OF CO. RD. 201 (CHALK BLUFF) & CO. RD. 227 (LITTLE DIAMOND), GO SOUTHEAST ON CO. RD. 227 APPROX. 0.3 MILES, TURN LEFT (NORTH) ONTO PHX ENERGY PAD AND SOUTHWEST PAD CORNER FOR THIS LOCATION.

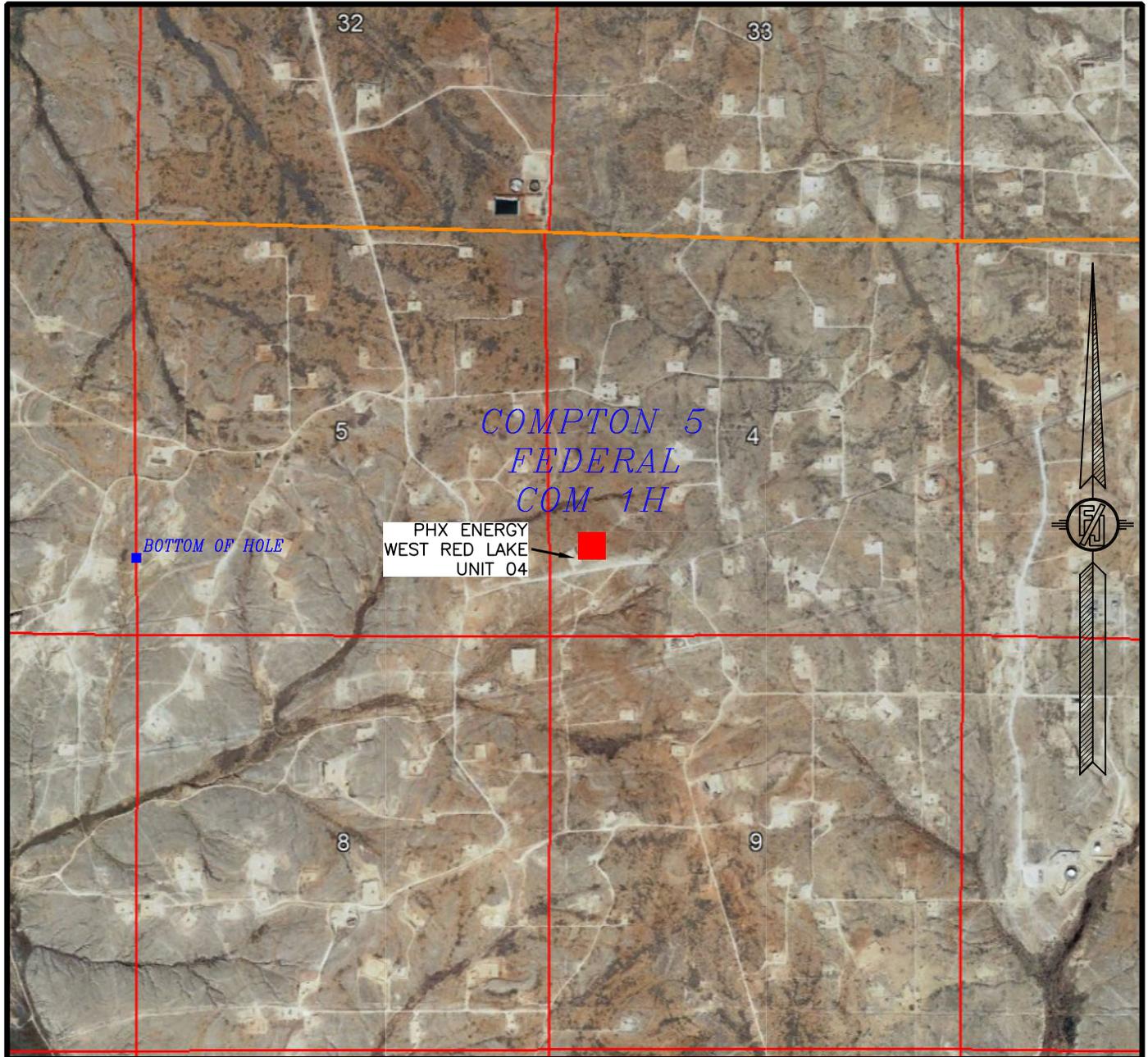
**REDWOOD OPERATING, LLC**  
**COMPTON 5 FEDERAL COM 1H**  
 LOCATED 1150 FT. FROM THE SOUTH LINE  
 AND 550 FT. FROM THE WEST LINE OF  
 SECTION 4, TOWNSHIP 18 SOUTH,  
 RANGE 27 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 22, 2023

SURVEY NO. 8548B

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO  
(575) 234-3327

SECTION 4, 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  
DEC. 2019

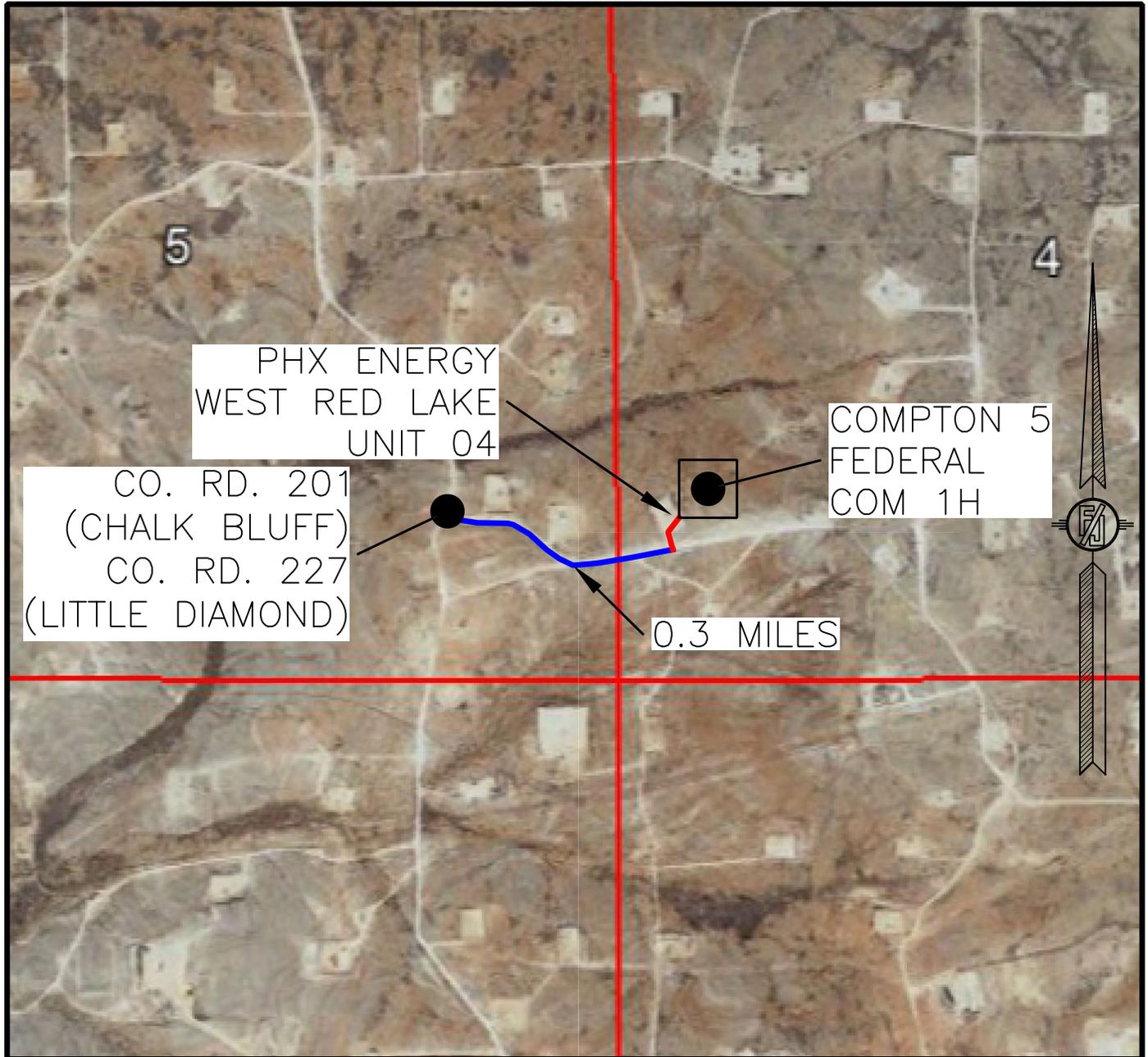
**REDWOOD OPERATING, LLC**  
**COMPTON 5 FEDERAL COM 1H**  
LOCATED 1150 FT. FROM THE SOUTH LINE  
AND 550 FT. FROM THE WEST LINE OF  
SECTION 4, TOWNSHIP 18 SOUTH,  
RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 22, 2023

SURVEY NO. 8548B

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO  
(575) 234-3327

SECTION 4, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
AERIAL ACCESS ROUTE MAP



NOT TO SCALE  
AERIAL PHOTO:  
GOOGLE EARTH  
DEC. 2019

**REDWOOD OPERATING, LLC**  
**COMPTON 5 FEDERAL COM 1H**  
LOCATED 1150 FT. FROM THE SOUTH LINE  
AND 550 FT. FROM THE WEST LINE OF  
SECTION 4, TOWNSHIP 18 SOUTH,  
RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 22, 2023

SURVEY NO. 8548B

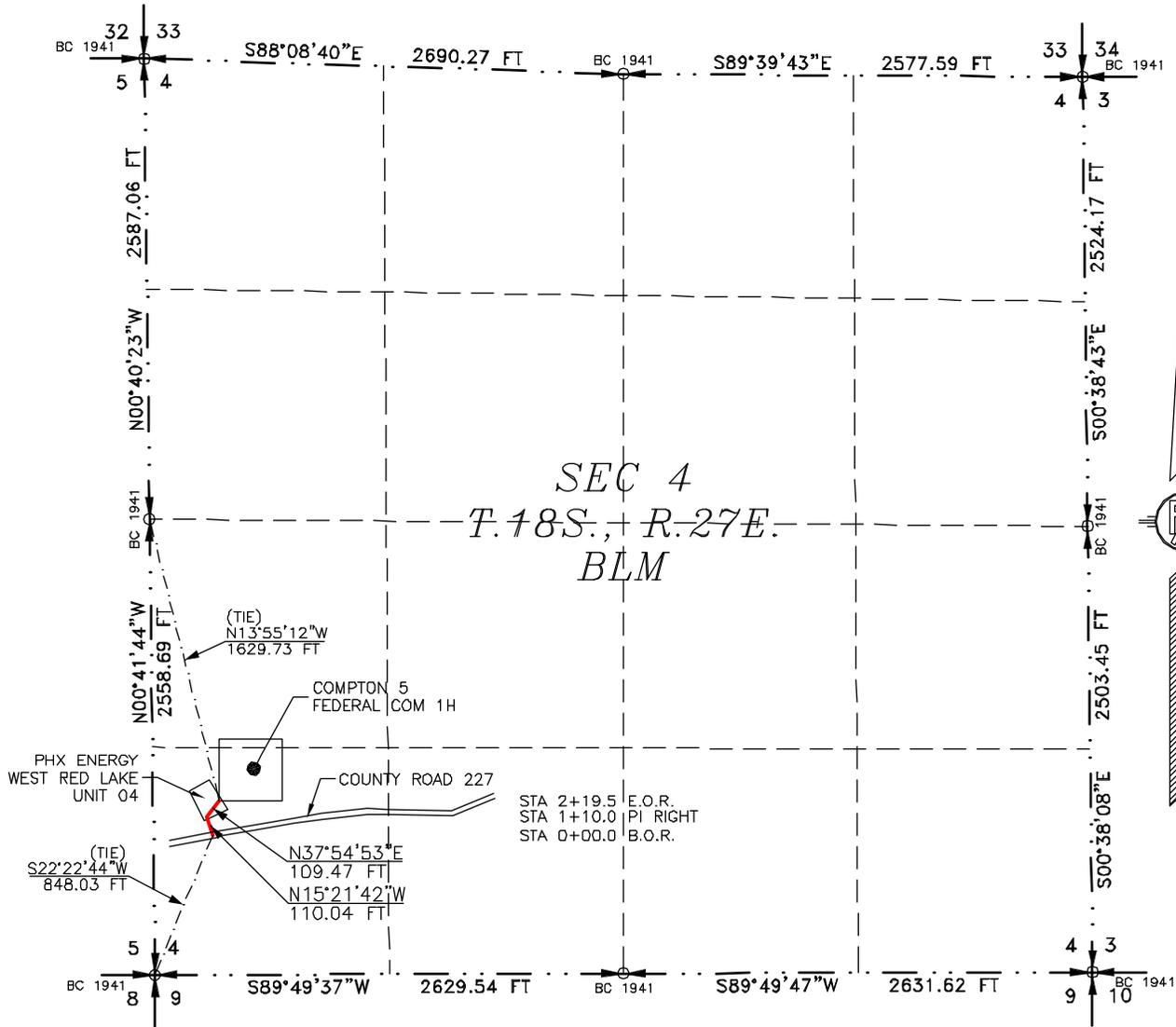
MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO  
(575) 234-3327

### ACCESS ROAD PLAT

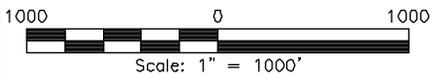
EXISTING ROAD FOR ACCESS TO COMPTON 5 FEDERAL COM 1H

## 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  
FEBRUARY 22, 2023



SEE NEXT SHEET (2-2) 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.

#### 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 22<sup>ND</sup> DAY OF MARCH 2023.



MADRON SURVEYING, INC.  
301 SOUTH CANAL  
CARLSBAD, NEW MEXICO 88220  
Phone (575) 234-3327

SHEET: 1-2

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220 (575) 234-3327 SURVEY NO. 8548B

**ACCESS ROAD PLAT**

EXISTING ROAD FOR ACCESS TO COMPTON 5 FEDERAL COM 1H

**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  
FEBRUARY 22, 2023**

**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 S22°22'44"W, A DISTANCE OF 848.03 FEET;  
THENCE N15°21'42"W A DISTANCE OF 110.04 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;  
THENCE N37°54'53"E A DISTANCE OF 109.47 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE WEST QUARTER CORNER OF SAID SECTION 4, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS N13°55'12"W, A DISTANCE OF 1629.73 FEET;

SAID STRIP OF LAND BEING 219.51 FEET OR 13.30 RODS IN LENGTH, CONTAINING 0.151 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SW/4 SW/4 219.51 L.F.    13.30 RODS    0.151 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.

**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 14th DAY OF MARCH 2023



MADRON SURVEYING, INC.  
301 SOUTH CANAL  
CARLSBAD, NEW MEXICO 88220  
Phone (575) 234-3327

**SURVEY NO. 8548B**

**SHEET: 2-2**

**MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO**

State of New Mexico  
 Energy, Minerals and Natural Resources Department

Submit Electronically  
 Via E-permitting

Oil Conservation Division  
 1220 South St. Francis Dr.  
 Santa Fe, NM 87505

## 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:** 09 / 27 / 2023

**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
Compton 5 Federal Com #1H		Unit M Sec. 4 T18SS R27E	1150 FSL 550 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
Compton 5 Federal Com #1H		3/1/2024	3/20/2024	4/20/2024	4/20/2024	4/20/2024

**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:	9/27/2023
Phone:	575-748-1288
<b>OIL CONSERVATION DIVISION</b> <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

# Application Data

09/27/2023

APD ID: 10400074938

Submission Date: 06/07/2021

Highlighted data reflects the most recent changes  
[Show Final Text](#)

Operator Name: REDWOOD OPERATING LLC

Well Name: COMPTON 5 FEDERAL COM

Well Number: 1H

Well Type: OIL WELL

Well Work Type: Drill

## Section 1 - General

APD ID: 10400074938

Tie to previous NOS? Y

Submission Date: 06/07/2021

BLM Office: Carlsbad

User: DEANA WEAVER

Title: Production Clerk

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMLC055383A

Lease Acres:

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? Y

Permitting Agent? NO

APD Operator: REDWOOD OPERATING LLC

Operator letter of

## Operator Info

Operator Organization Name: REDWOOD OPERATING LLC

Operator Address: 11344 LOVINGTON HWY

Zip: 88210

Operator PO Box:

Operator City: ARTESIA

State: NM

Operator Phone: (575)748-1288

Operator Internet Address:

## Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: COMPTON 5 FEDERAL COM

Well Number: 1H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: RED LAKE

Pool Name: GLORIETA YESO

**Operator Name:** REDWOOD OPERATING LLC

**Well Name:** COMPTON 5 FEDERAL COM

**Well Number:** 1H

**Is the proposed well in an area containing other mineral resources?** NATURAL GAS,OIL

**Is the proposed well in a Helium production area?** N    **Use Existing Well Pad?** N    **New surface disturbance?**

**Type of Well Pad:** SINGLE WELL

**Multiple Well Pad Name:**

**Number:**

**Well Class:** HORIZONTAL

**Number of Legs:** 1

**Well Work Type:** Drill

**Well Type:** OIL WELL

**Describe Well Type:**

**Well sub-Type:** DELINEATION

**Describe sub-type:**

**Distance to town:** 10 Miles

**Distance to nearest well:** 248 FT

**Distance to lease line:** 590 FT

**Reservoir well spacing assigned acres Measurement:** 160 Acres

**Well plat:** COMPTON\_5\_FED\_COM\_1H\_20230417092615.pdf

**Well work start Date:** 10/01/2021

**Duration:** 20 DAYS

**Section 3 - Well Location Table**

**Survey Type:** RECTANGULAR

**Describe Survey Type:**

**Datum:** NAD83

**Vertical Datum:** NAVD88

**Survey number:** 8548B

**Reference Datum:** GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
SHL Leg #1	1150	FSL	550	FWL	18S	27E	4	Aliquot SWS W	32.7726943	-104.2902242	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 7717	3533	0	0	N
KOP Leg #1	1150	FSL	550	FWL	18S	27E	4	Aliquot SWS W	32.7726943	-104.2902242	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 7717	1456	2077	2077	N
PPP Leg #1-1	990	FSL	660	FEL	18S	27E	5	Aliquot SESE	32.7722532	-104.2941542	LEA	NEW MEXICO	NEW MEXICO	F	NMLC0 55383A	1315	3390	2218	Y

**Operator Name:** REDWOOD OPERATING LLC

**Well Name:** COMPTON 5 FEDERAL COM

**Well Number:** 1H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
EXIT Leg #1	990	FSL	100	FW L	18S	27E	5	Aliquot SWS W	32.7722699	-104.3088367	EDD Y	NEW MEXICO	NEW MEXICO	F	NMLC055383A	633	8250	2900	Y
BHL Leg #1	990	FSL	1	FW L	18S	27E	5	Aliquot SWS W	32.7722703	-104.3091587	EDD Y	NEW MEXICO	NEW MEXICO	F	NMLC055383A	633	8385	2900	Y

**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 & 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	<sup>2</sup> Pool Code	<sup>3</sup> Pool Name
	51120	Red Lake; Glorieta Yeso
<sup>4</sup> Property Code	<sup>5</sup> Property Name	
	COMPTON 5 FEDERAL COM	
<sup>7</sup> OGRID No.	<sup>8</sup> Operator Name	<sup>6</sup> Well Number
330211	REDWOOD OPERATING, LLC	1H
		<sup>9</sup> Elevation
		3533.0

<sup>10</sup> Surface Location

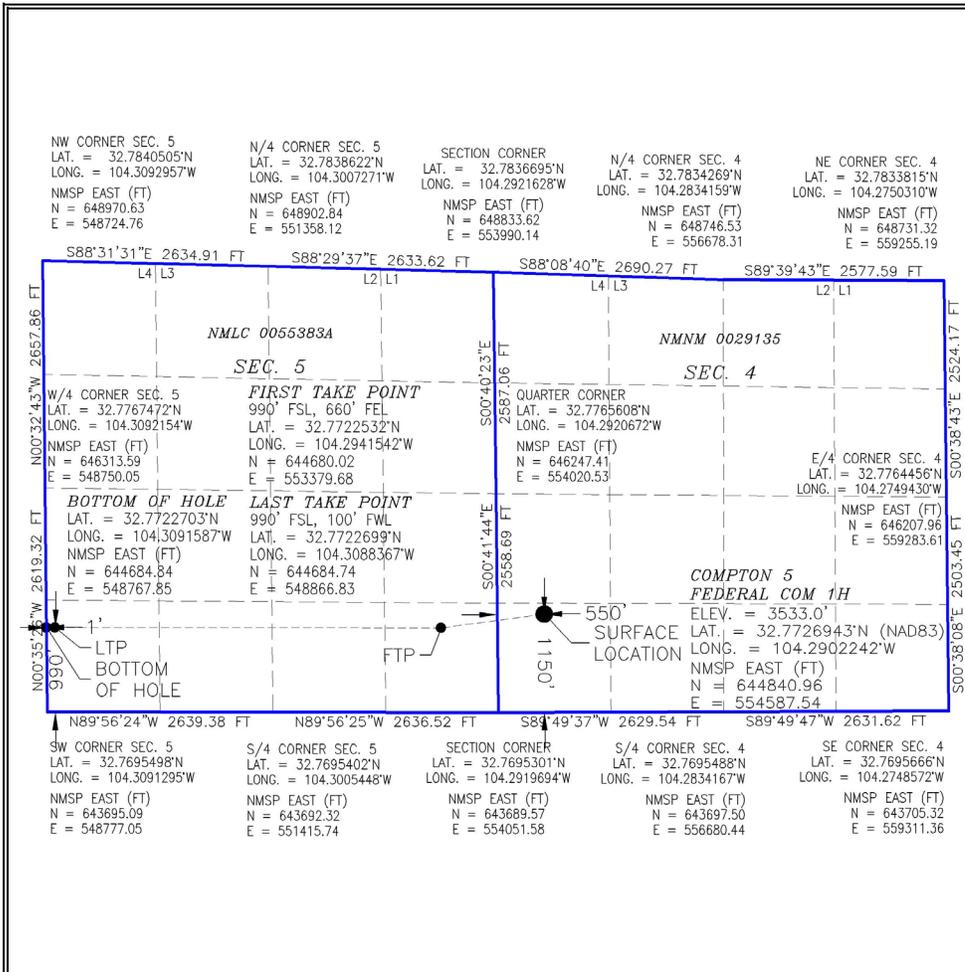
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	4	18 S	27 E		1150	SOUTH	550	WEST	EDDY

<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
M	5	18 S	27 E		990	SOUTH	1	WEST	EDDY

<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
160			

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.



**<sup>17</sup> OPERATOR CERTIFICATION**

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.

*Deana Weaver* 4/17/2023  
Signature Date

Deana Weaver  
Printed Name

dweaver@mec.com  
E-mail Address

**<sup>18</sup> SURVEYOR CERTIFICATION**

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.

FEBRUARY 22, 2023  
Date of Survey

*[Signature]*  
Signature and Seal of Professional Surveyor

Certificate Number: 12797  
JARAMILLO, L.S. 12797  
PROFESSIONAL SURVEYOR  
NO. 8548B

Intent   As Drilled

API #		
Operator Name: REDWOOD OPERATING, LLC	Property Name: COMPTON 5 FEDERAL COM	Well Number 1H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
M	4	18S	27E		1150	SOUTH	550	WEST	EDDY
Latitude 32.7726943					Longitude 104.2902242				NAD 83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
P	5	18S	27E		990	SOUTH	660	EAST	LEA
Latitude 32.7722532					Longitude 104.2941542				NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
M	5	18S	27E		990	SOUTH	100	WEST	LEA
Latitude 32.7722699					Longitude 104.3088367				NAD 83

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.

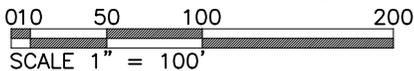
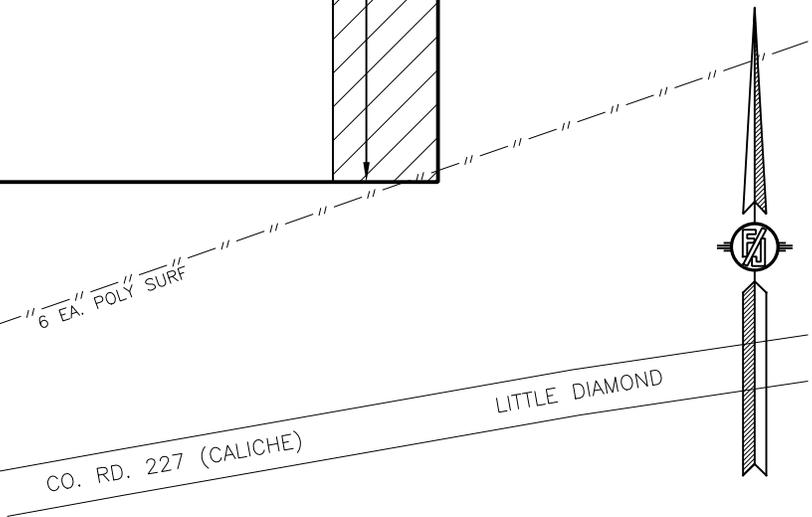
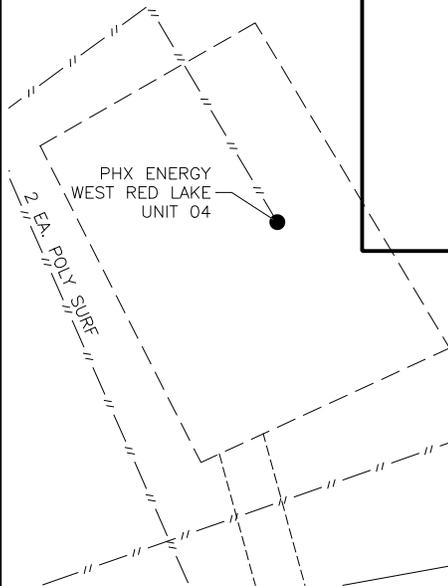
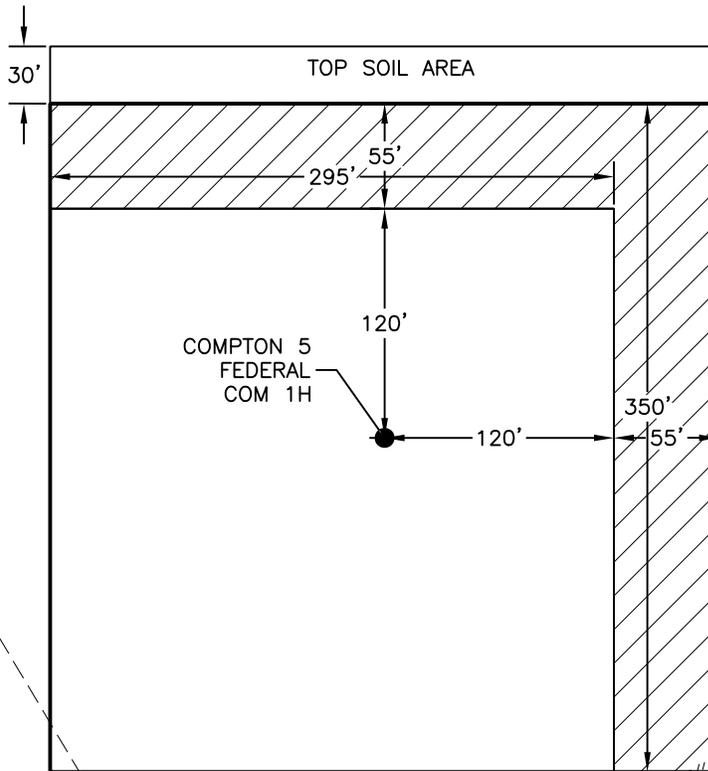
API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018



SECTION 4, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
INTERIM SITE RECLAMATION

 DENOTES RECLAMATION AREA  
0.815± ACRES RECLAMATION AREA



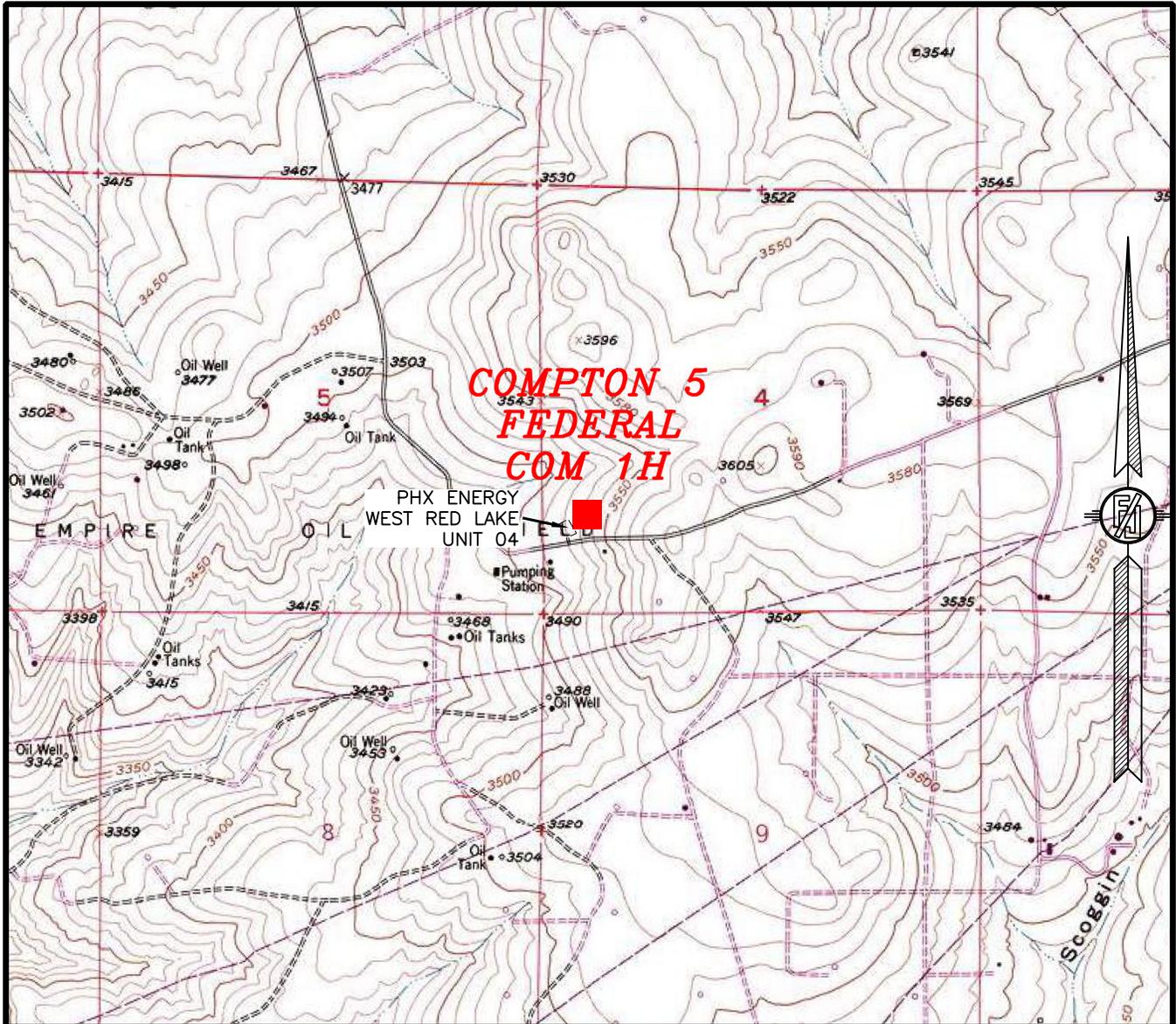
REDWOOD OPERATING, LLC  
**COMPTON 5 FEDERAL COM 1H**  
LOCATED 1150 FT. FROM THE SOUTH LINE  
AND 550 FT. FROM THE WEST LINE OF  
SECTION 4, TOWNSHIP 18 SOUTH,  
RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 22, 2023

SURVEY NO. 8548B

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO  
(575) 234-3327

SECTION 4, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
LOCATION VERIFICATION MAP



USGS QUAD MAP:  
SPRING LAKE

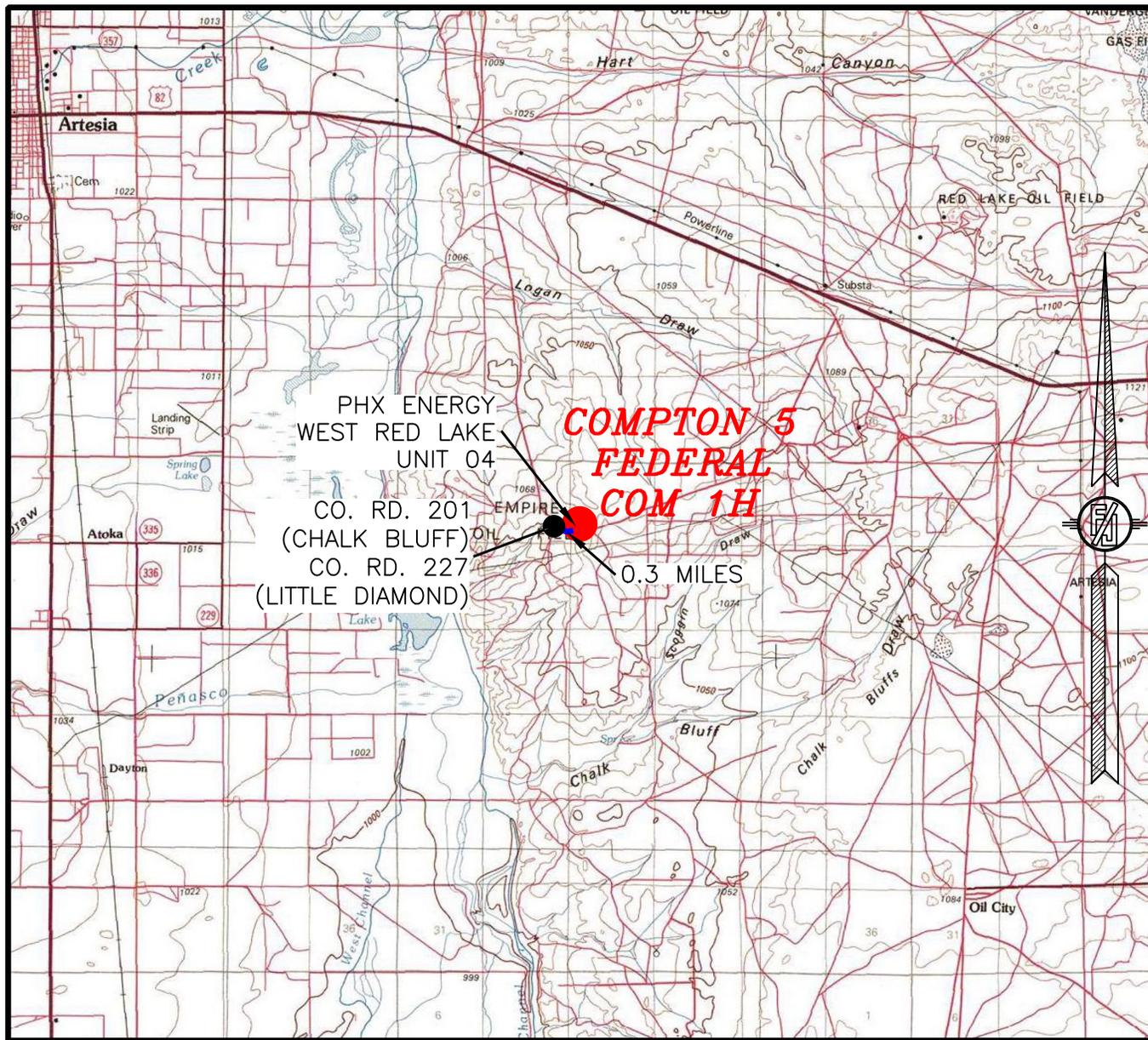
NOT TO SCALE

**REDWOOD OPERATING, LLC**  
**COMPTON 5 FEDERAL COM 1H**  
LOCATED 1150 FT. FROM THE SOUTH LINE  
AND 550 FT. FROM THE WEST LINE OF  
SECTION 4, TOWNSHIP 18 SOUTH,  
RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 22, 2023

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO SURVEY NO. 8548B  
(575) 234-3327

# SECTION 4, 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 THE INTERSECTION OF CO. RD. 201 (CHALK BLUFF) & CO. RD. 227 (LITTLE DIAMOND), GO SOUTHEAST ON CO. RD. 227 APPROX. 0.3 MILES, TURN LEFT (NORTH) ONTO PHX ENERGY PAD AND SOUTHWEST PAD CORNER FOR THIS LOCATION.

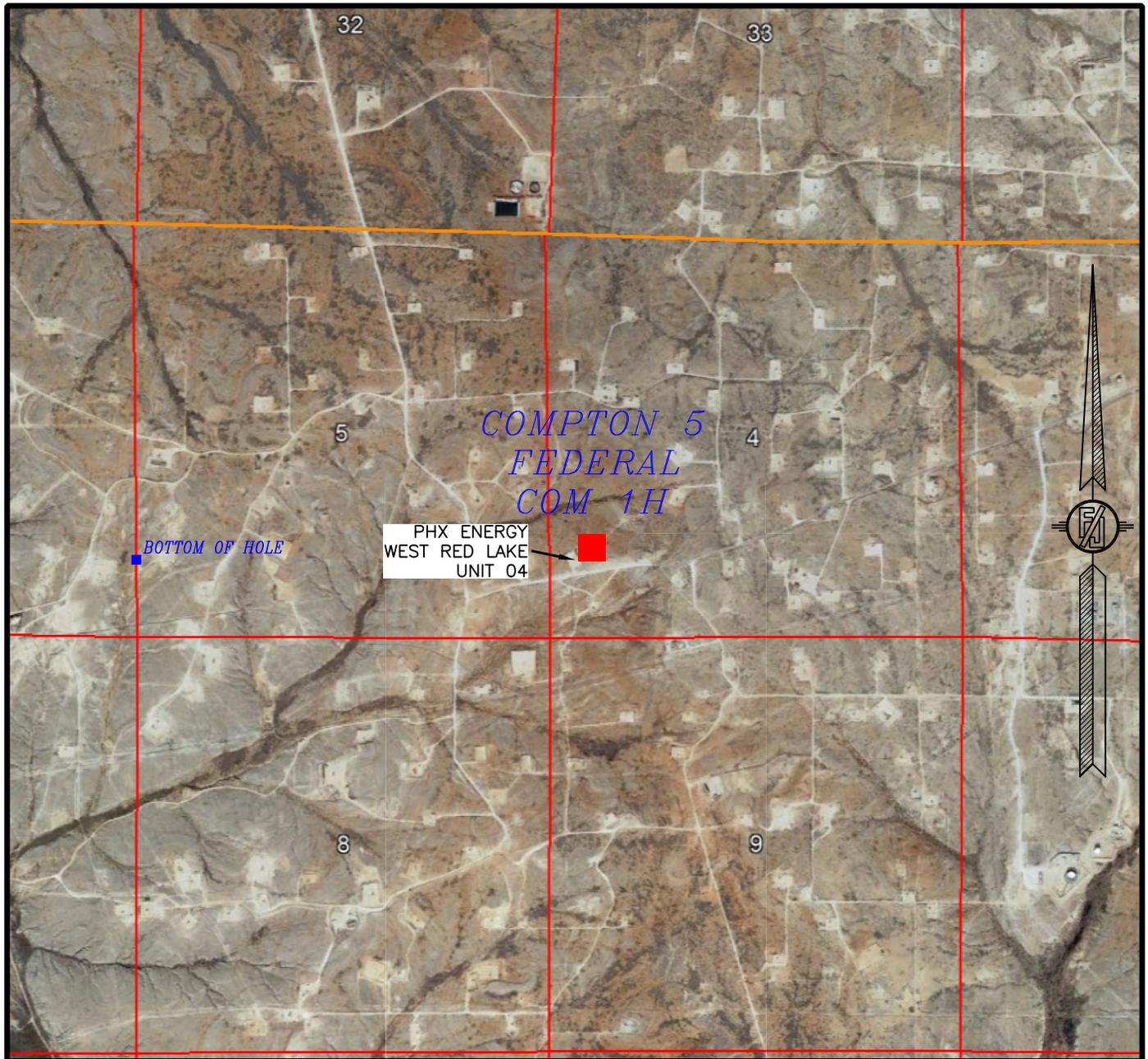
**REDWOOD OPERATING, LLC**  
**COMPTON 5 FEDERAL COM 1H**  
LOCATED 1150 FT. FROM THE SOUTH LINE  
AND 550 FT. FROM THE WEST LINE OF  
SECTION 4, TOWNSHIP 18 SOUTH,  
RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 22, 2023

SURVEY NO. 8548B

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO  
(575) 234-3327

SECTION 4, 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  
DEC. 2019

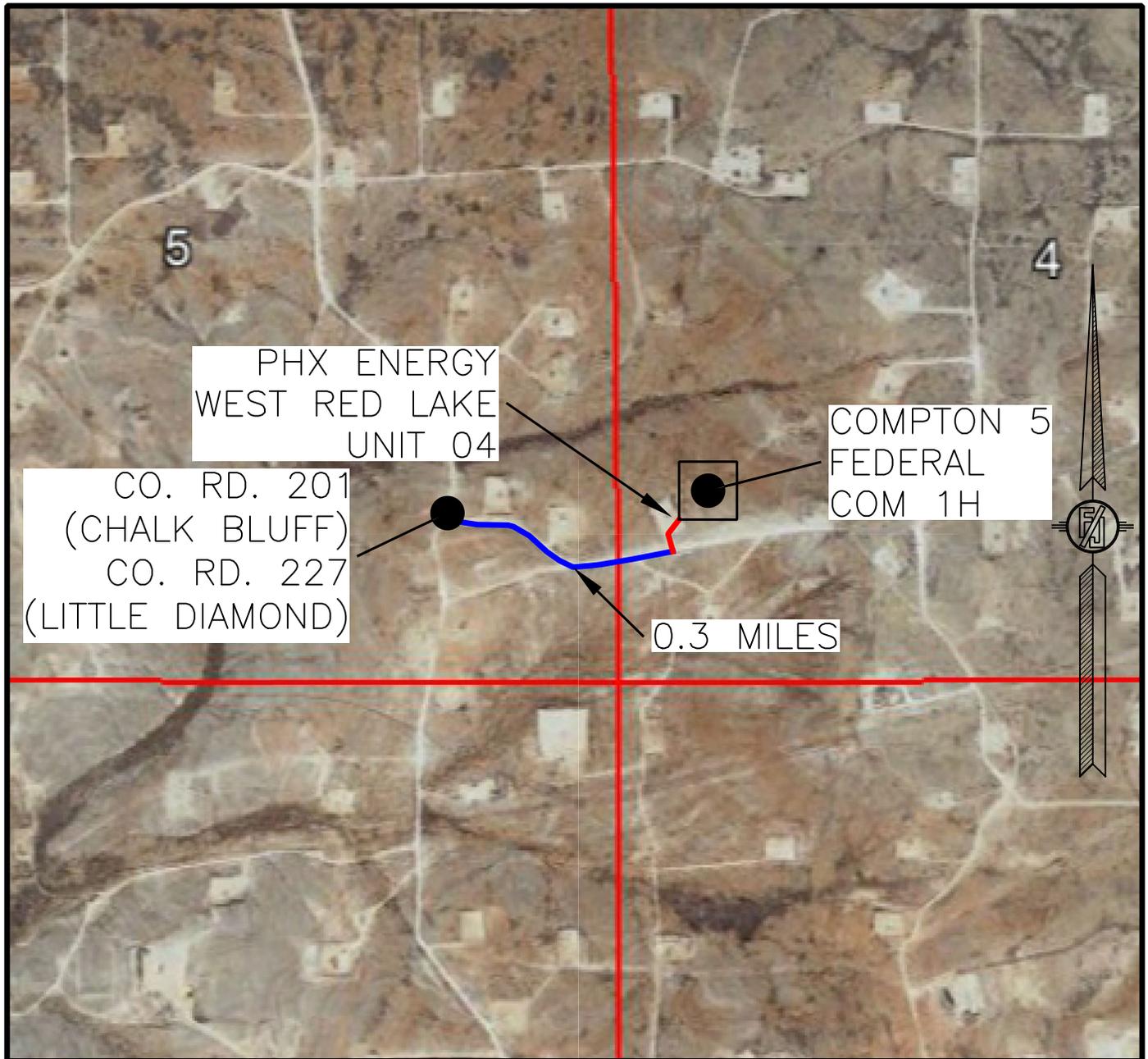
**REDWOOD OPERATING, LLC**  
**COMPTON 5 FEDERAL COM 1H**  
LOCATED 1150 FT. FROM THE SOUTH LINE  
AND 550 FT. FROM THE WEST LINE OF  
SECTION 4, TOWNSHIP 18 SOUTH,  
RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 22, 2023

SURVEY NO. 8548B

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO  
(575) 234-3327

SECTION 4, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
AERIAL ACCESS ROUTE MAP



NOT TO SCALE  
AERIAL PHOTO:  
GOOGLE EARTH  
DEC. 2019

**REDWOOD OPERATING, LLC**  
**COMPTON 5 FEDERAL COM 1H**  
LOCATED 1150 FT. FROM THE SOUTH LINE  
AND 550 FT. FROM THE WEST LINE OF  
SECTION 4, TOWNSHIP 18 SOUTH,  
RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 22, 2023

SURVEY NO. 8548B

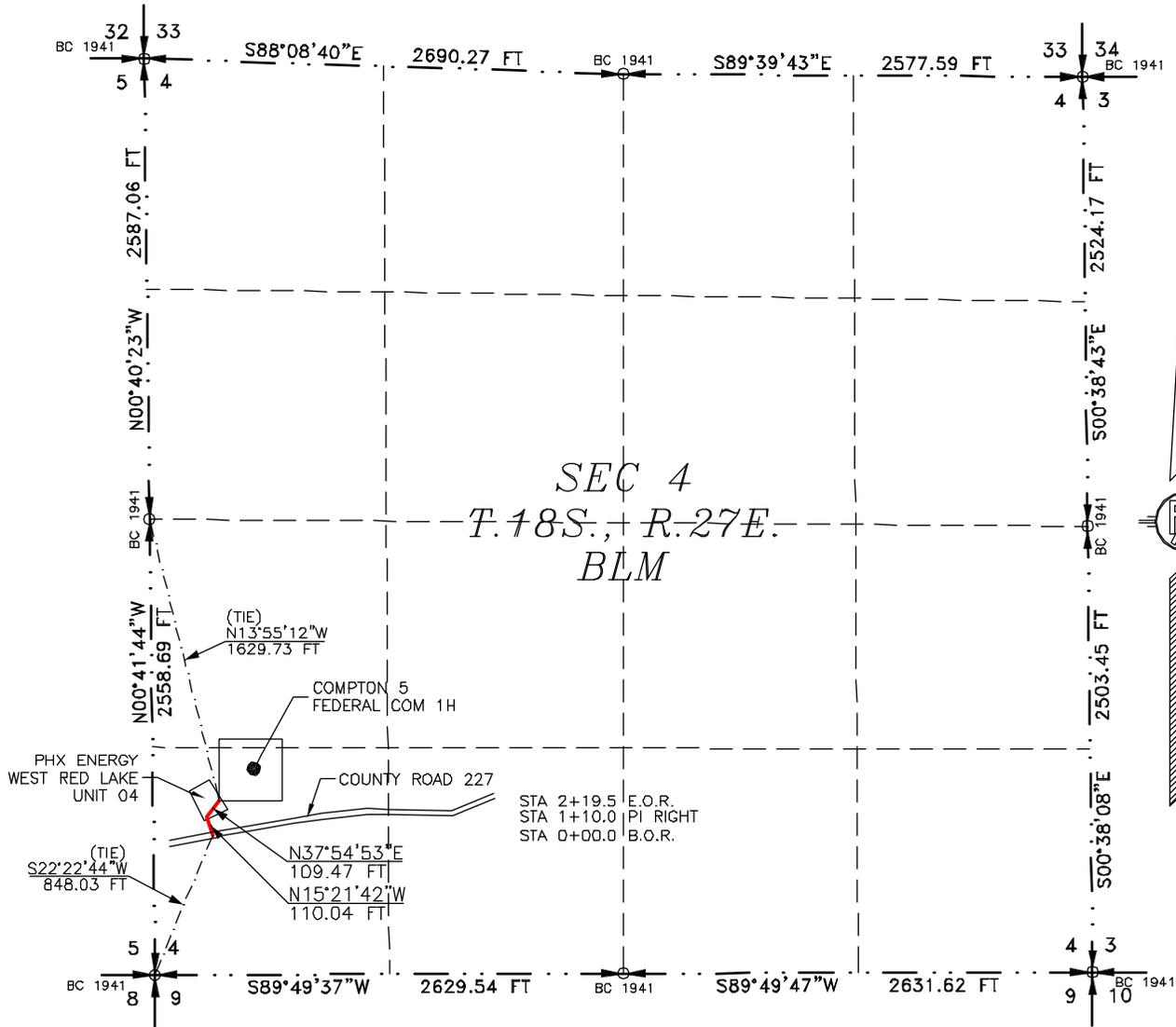
MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO  
(575) 234-3327

### ACCESS ROAD PLAT

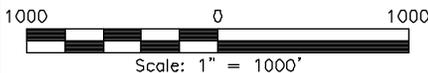
EXISTING ROAD FOR ACCESS TO COMPTON 5 FEDERAL COM 1H

## 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  
FEBRUARY 22, 2023



SEE NEXT SHEET (2-2) 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.

#### 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 22<sup>ND</sup> DAY OF MARCH 2023.



MADRON SURVEYING, INC.  
301 SOUTH CANAL  
CARLSBAD, NEW MEXICO 88220  
Phone (575) 234-3327

SHEET: 1-2

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220 (575) 234-3327 SURVEY NO. 8548B

**ACCESS ROAD PLAT**

EXISTING ROAD FOR ACCESS TO COMPTON 5 FEDERAL COM 1H

**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  
FEBRUARY 22, 2023**

**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 S22°22'44"W, A DISTANCE OF 848.03 FEET;  
THENCE N15°21'42"W A DISTANCE OF 110.04 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;  
THENCE N37°54'53"E A DISTANCE OF 109.47 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE WEST QUARTER CORNER OF SAID SECTION 4, TOWNSHIP 18 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS N13°55'12"W, A DISTANCE OF 1629.73 FEET;

SAID STRIP OF LAND BEING 219.51 FEET OR 13.30 RODS IN LENGTH, CONTAINING 0.151 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SW/4 SW/4 219.51 L.F.    13.30 RODS    0.151 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.

**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 14th DAY OF MARCH 2023



MADRON SURVEYING, INC.  
301 SOUTH CANAL  
CARLSBAD, NEW MEXICO 88220  
Phone (575) 234-3327

**SURVEY NO. 8548B**

**SHEET: 2-2**

**MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO**



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

# Drilling Plan Data Report

09/27/2023

APD ID: 10400074938

Submission Date: 06/07/2021

Highlighted data reflects the most recent changes

Operator Name: REDWOOD OPERATING LLC

Well Name: COMPTON 5 FEDERAL COM

Well Number: 1H

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
12207286	QUATERNARY	3535	0	0	ALLUVIUM	NONE	N
12207287	QUEEN	2875	660	660	SILTSTONE	NATURAL GAS, OIL	N
12207291	GRAYBURG	2476	1059	1059	DOLOMITE, SILTSTONE	NATURAL GAS, OIL	N
12207288	SAN ANDRES	2256	1279	1279	DOLOMITE	NATURAL GAS, OIL	N
12207289	GLORIETA	896	2639	2639	SILTSTONE	NATURAL GAS, OIL	Y
12207290	YESO	752	2783	2783	DOLOMITE	NATURAL GAS, OIL	Y

## Section 2 - Blowout Prevention

Pressure Rating (PSI): 3M

Rating Depth: 8385

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 30 minutes without a test plug. The estimated bottom hole at TD is 120 degrees and estimated maximum bottom hole pressure is 1387 psig (0.052\*2900' TVD\*9.2ppg) less than 2900 bottom hole pressure

**Choke Diagram Attachment:**

NEW\_Choke\_Manifold\_3M\_20230829100952.pdf

**BOP Diagram Attachment:**

NEW\_BOP\_3M\_20230829101006.pdf

**Operator Name:** REDWOOD OPERATING LLC

**Well Name:** COMPTON 5 FEDERAL COM

**Well Number:** 1H

**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	3533	3158	375	J-55	48	ST&C	3.953	4.667	BUOY	28.197	BUOY	4.75
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	1230	0	1230	3535	2303	1230	J-55	36	ST&C	3.158	7.04	BUOY	10.505	BUOY	7.04
3	PRODUCTION	8.75	7.0	NEW	API	N	0	1975	0	1975	3535	1558	1975	L-80	26	LT&C	4.819	2.439	BUOY	4.981	BUOY	2.413
4	PRODUCTION	8.75	7.0	NEW	API	N	1975	3075	1975	2827	1558	706	1100	L-80	26	OTHER - BTC	3.148	2.453	BUOY	4.981	BUOY	2.438
5	PRODUCTION	8.75	5.5	NEW	API	N	3075	8385	2827	2900	706	633	5310	L-80	17	OTHER - BTC	4.05	2.7	BUOY	4.306	BUOY	2.623

**Casing Attachments**

**Casing ID:** 1      **String** SURFACE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Surface\_Casing\_20210520140420.pdf

**Operator Name:** REDWOOD OPERATING LLC

**Well Name:** COMPTON 5 FEDERAL COM

**Well Number:** 1H

**Casing Attachments**

---

**Casing ID:** 2                    **String**        INTERMEDIATE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Inter\_Casing\_20210520140823.pdf

---

**Casing ID:** 3                    **String**        PRODUCTION

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Production\_csg\_20230417095737.pdf

---

**Casing ID:** 4                    **String**        PRODUCTION

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Production\_csg\_20230417100024.pdf

---

**Operator Name:** REDWOOD OPERATING LLC

**Well Name:** COMPTON 5 FEDERAL COM

**Well Number:** 1H

**Casing Attachments**

**Casing ID:** 5      **String**      PRODUCTION

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Production\_csg\_20230417100540.pdf

**Section 4 - Cement**

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

PRODUCTION	Lead		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#/skPF29+. 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	8385	250	2.82	11.5	2120.57	35	50/50 POZ/C +10%PF20+5% PF44+.5 PF79+3pps PF42+.	20bbls Gel Spacer 50sx of 11# Scavenger Cement
------------	------	--	---	------	-----	------	------	---------	----	--	--

**Operator Name:** REDWOOD OPERATING LLC

**Well Name:** COMPTON 5 FEDERAL COM

**Well Number:** 1H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		0	8385	1675	1.34	14.2	2120.57	35	4ppsPF45+.125p ps PF29 50/50 POZ C+5%PF44+2% PF20+.2%PF13+ 2%PF65+.2%PF6 06+.4pps PF45	20bbls 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:** Parson 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	8385	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 1387 psig (0.052*2900' TVD*9.2ppg) less than 2900 bottom hole pressure

**Operator Name:** REDWOOD OPERATING LLC

**Well Name:** COMPTON 5 FEDERAL COM

**Well Number:** 1H

### 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:** 1387

**Anticipated Surface Pressure:** 748

**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:**

GasCapturePlanFormFinal\_000\_20210520144745.pdf

Compton\_5\_Federal\_Com\_1H\_Revised\_Preliminary\_Horizontal\_Plan\_2\_20230417105356.pdf

KOP\_20230417105403.pdf

Escape\_Route\_20230417105459.pdf

H2S\_Plan\_20230417121151.pdf

Drilling\_Plan\_20230829100922.pdf

**Other proposed operations facets description:**

**Other proposed operations facets attachment:**

**Other Variance attachment:**

Variance\_request\_20210520144659.pdf

Cactus\_Wellhead\_installation\_Procedure\_20210520144715.pdf

**Operator Name:** REDWOOD OPERATING LLC

**Well Name:** COMPTON 5 FEDERAL COM

**Well Number:** 1H

Flex\_Hose\_Cert\_20230417120422.pdf

CCC\_\_Rig\_6\_20230803093601.pdf

CONFIDENTIAL

**Redwood Operating LLC**  
**Compton 5 Federal Com #1H NMNM-7717 NMLC-055383A**  
**SHL : 1150 FSL & 550 FWL, SWSW, Sec. 4 T18S R27E**  
**BHL : 990 FSL & 1 FWL, SWSW, Sec. 5 T18S R27E**  
**Eddy County, NM**

## DRILLING PROGRAM

### 1. Geologic Name of Surface Formation

Quaternary

### 2. Estimated Tops of Important Geologic Markers:

Queen	660'
Grayburg	1059'
San Andres	1279'
Glorieta	2639'
Yeso/Paddock	2783'

### Estimated Depths of Anticipated Fresh Water, Oil and Gas:

Water Sand	150'	Fresh Water
Queen	660'	Oil/Gas
Grayburg	1059'	Oil/Gas
San Andres	1279'	Oil/Gas
Glorieta	2639'	Oil/Gas
Yeso/Paddock	2783'	Oil/Gas

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Setting 13 3/8" casing to 375' and circulating cement back to surface will protect the surface fresh water sand. Salt section and shallower zones above TD, which contain commercial quantities of oil and/or gas, will have cement circulated across them by cementing 5 1/2" production casing, sufficient cement will be pumped to circulate back to surface.

### 3. Casing Program:

Hole Size	Interval	OD Casing	Wt, Grade, Jt, cond, collapse/burst/tension
17 1/2"	0-375'	13 3/8"	48#, J-55, ST&C, New, 3.952991/4.667192/4.74
12 1/4"	0-1230'	9 5/8"	36#, J-55, ST&C, New, 3.158224/7.04/7.04
8 3/4"	0-1975'	7"	26#, L-80, LT&C, New, 4.819243/2.438375/2.413333
8 3/4"	1975-3075'	7"	26#, L-80, BT&C, New, 3.147866/2.45255/ 2.438375
8 3/4"	3075-8385'	5 1/2"	17#, L-80, BT&C, New, 4.0496/2.700132/2.621925

***Variance request: A variance is requested to use a Multi Bowl System and Flex Hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test will be kept on the rig.***

### 4. Cement Program:

13 3/8" Surface Casing: Lead 420sx, Class C+1% PF1, yld 1.34, wt 14.8 ppg, 6.307 gals/sx, excess 100%, Slurry Top Surface

Attached to Form 5160-3  
**Redwood Operating LLC**  
**Compton 5 Federal Com #1H NMNM-7717 NMLC-055383A**  
**SHL : 1150 FSL & 550 FWL, SWSW, Sec. 4 T18S R27E**  
**BHL : 990 FSL & 1 FWL, SWSW, Sec. 5 T18S R27E**  
**Eddy County, NM**

9 5/8" Intermediate Casing: Lead 250sx Class C + 4% PF20 +1% PF1+0.125#/skPF29+.4% PF 45, yld 1.72, wt 13.5 ppg, excess 100%, Slurry Top Surface. Tail: 200sx, Class C+.1% PF1, yld 1.34, wt 14.8 ppg, 6.307 gals/sx, excess 100%, Slurry Top 1,800'

7" & 5 1/2" Production Casing: Lead 250sx, 50/50 POZ/C+10% PF20+5%PF44+.5%PF79+3pps PF42+.4ppsPF45+.125pps PF29 , yld 2.82, wt 11.5 ppg, 16.421 gals/sx, excess 35%, Slurry Top Surface, Tail: 1675sx, 50/50 POZ C +5%PF 44+2%PF20+.2% PF13+2%PF65+.2%PF606+.4ppsPF45, yld 1.34, wt 14.2 ppg, 6.091gals/sx, 35% excess, Slurry Top 1,875'

**6. Minimum Specifications for Pressure Control:**

The blowout preventer equipment (BOP) shown in Exhibit #10 will consist of a double ram-type (3000 psi WP) minimum preventer. This unit will be hydraulically operated and the ram type preventer will be equipped with blind rams on top of 4 1/2" drill pipe rams on bottom. The 11" BOP will be nipped up on the 8 5/8" surface casing and tested by a 3<sup>rd</sup> party to 2000 psi used continuously until TD is reached. All BOP's and accessory equipment will be tested to 2000 psi before drilling out of intermediate casing. Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment (Exhibit #10) will include a Kelly cock and floor safety valve and choke lines and choke manifold (Exhibit #11) with a minimum 2000 psi WP rating

**7. Types and Characteristics of the Proposed Mud System:**

The well will be drilled to TD with a combination of fresh and cut brine mud system. The applicable depths and properties of this system are as follows:

DEPTH	TYPE	WEIGHT	VISCOSITY	WATERLOSS
0-375'	Fresh Water	10	28	N.C.
375-1230'	Cut Brine	10	29	N.C.
1230-TD'	Cut Brine	9.2	29	N.C.

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the well site at all times.

**8. Auxiliary Well Control and Monitoring Equipment:**

- A. Kelly cock will be kept in the drill string at all times.
- B. A full opening drill pipe-stabbing valve with proper drill pipe connections will be on the rig floor at all times.

**9. Logging, Testing and Coring Program:**

- A. The electric logging program will consist of GR-Dual Laterolog, Spectral Density, Dual Spaced Neutron, CSNG Log from T.D. to 8 5/8 casing shoe.
- B. Drill Stem test is not anticipated.

**Redwood Operating LLC**  
**Compton 5 Federal Com #1H NMNM-7717 NMLC-055383A**  
**SHL : 1150 FSL & 550 FWL, SWSW, Sec. 4 T18S R27E**  
**BHL : 990 FSL & 1 FWL, SWSW, Sec. 5 T18S R27E**  
**Eddy County, NM**

---

- C. No conventional coring is anticipated.
- D. Further testing procedures will be determined at TD.

**10. Abnormal Conditions, Pressures, Temperatures and Potential Hazards:**

No abnormal pressures or temperatures are anticipated. **The estimated bottom hole at TD is 120 degrees and estimated maximum bottom hole pressure is 1387 psig (0.052\*2899.65'TVD\*9.2ppg) less than 2900 Bottom Hole Pressure.**

Low levels of Hydrogen sulfide have been monitors in producing wells in the area, so H2S may be present while drilling of the well; a plan is attached to the Drilling program. No major loss of circulation zones has been reported in offsetting wells.

**11. Anticipated Starting Date and Duration of Operations:**

Road and location work will not begin until approval has been received from the BLM. The anticipated spud date is **October 1, 2021**. Once commenced, the drilling operation should be finished in approximately 20 days. If the well is productive, an additional 30 days will be required for completion and testing before a decision is made to install permanent facilities.

**Attachment to Exhibit #10**  
**NOTES REGARDING THE BLOWOUT PREVENTERS**  
**Compton 5 Federal Com #1H**  
**Eddy County, New Mexico**

1. Drilling nipple to be so constructed that it can be removed without use of a welder through rotary table opening, with minimum I.D. equal to preventer bore.
2. Wear ring to be properly installed in head.
3. Blow out preventer and all fittings must be in good condition, 2000 psi WP minimum.
4. All fittings to be flanged.
5. Safety valve must be available on rig floor at all times with proper connections, valve to be full 2000 psi WP minimum.
6. All choke and fill lines to be securely anchored especially ends of choke lines.
7. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
8. Kelly cock on Kelly.
9. Extension wrenches and hands wheels to be properly installed.
10. Blow out preventer control to be located as close to driller's position as feasible.

Attached to Form 5160-3

**Redwood Operating LLC**

**Compton 5 Federal Com #1H NMNM-7717 NMLC-055383A**

**SHL : 1150 FSL & 550 FWL, SWSW, Sec. 4 T18S R27E**

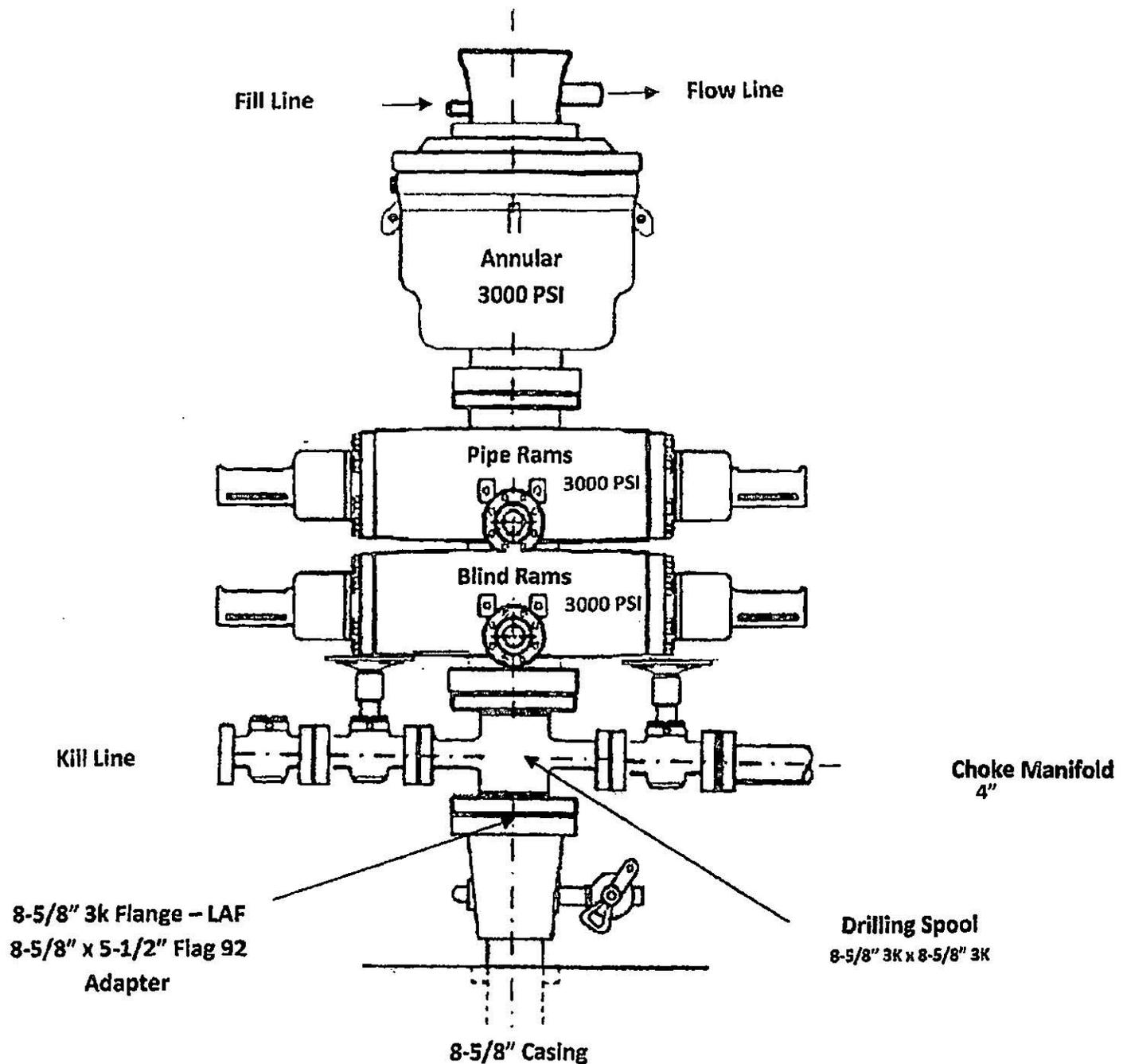
**BHL : 990 FSL & 1 FWL, SWSW, Sec. 5 T18S R27E**

**Eddy County, NM**

- 
11. Blow out preventer closing equipment to include minimum 40-gallon accumulator, two independent sources of pump power on each closing unit installation all API specifications.

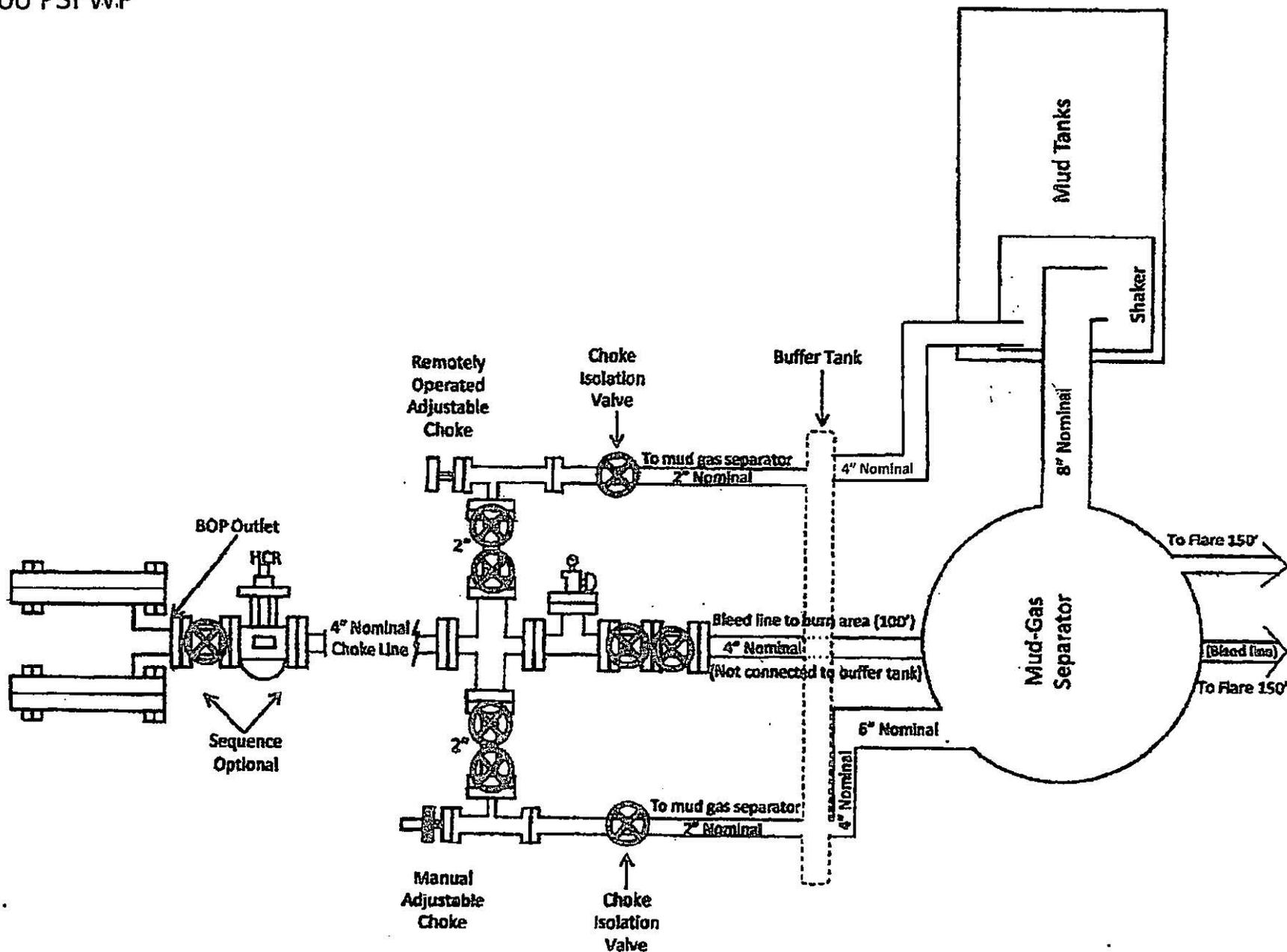
# BOP Diagram

Dual Ram BOP  
3000 PSI WP



# Choke Manifold

3000 PSI WP



### Compton 5 Federal Com 1H, Plan 1

<b>Operator</b> Redwood Operating LLC	<b>Units</b> feet, °/100ft	15:46 Monday, April 03, 2023 Page 1 of 4
<b>Field</b> Red Lake	<b>County</b> Eddy	<b>Vertical Section Azimuth</b> 270.06
<b>Well Name</b> Compton 5 Federal Com 1H	<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: 1150 FSL & 550 FWL Section 4-T18S-R27E BHL: 990 FSL & 1 FWL Section 5-T18S-R26E	<b>Map Zone</b> UTM	<b>Lat Long Ref</b>
<b>Site</b>	<b>Surface X</b> 1858762.5	<b>Surface Long</b>
<b>Slot Name</b>	<b>Surface Y</b> 11896614.5	<b>Surface Lat</b>
<b>Well Number</b> 1H	<b>Surface Z</b> 3551.8	<b>Global Z Ref</b> KB
<b>Project</b>	<b>Ground Level</b> 3533	<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
*** TIE (at MD = 1977.00)										
1977.00	0.00	0.0	1977.00	0.00	0.00		0.00	1858762.50	11896614.50	1574.80
2000.00	0.00	0.0	2000.00	0.00	0.00	0.00	0.00	1858762.50	11896614.50	1551.80
2050.00	0.00	0.0	2050.00	0.00	0.00	0.00	0.00	1858762.50	11896614.50	1501.80
*** KOP 9 DEGREES (at MD = 2077.00)										
2077.00	0.00	0.0	2077.00	0.00	0.00	0.00	0.00	1858762.50	11896614.50	1474.80
2100.00	1.84	256.2	2100.00	-0.09	-0.36	8.00	0.36	1858762.14	11896614.41	1451.80
2150.00	5.84	256.2	2149.87	-0.89	-3.61	8.00	3.61	1858758.89	11896613.61	1401.93
2200.00	9.84	256.2	2199.40	-2.51	-10.23	8.00	10.23	1858752.27	11896611.99	1352.40
2250.00	13.84	256.2	2248.32	-4.96	-20.19	8.00	20.19	1858742.31	11896609.54	1303.48
2300.00	17.84	256.2	2296.41	-8.21	-33.44	8.00	33.44	1858729.06	11896606.29	1255.39
2350.00	21.84	256.2	2343.44	-12.26	-49.92	8.00	49.91	1858712.58	11896602.24	1208.36
2400.00	25.84	256.2	2389.16	-17.08	-69.54	8.00	69.52	1858692.96	11896597.42	1162.64
2450.00	29.84	256.2	2433.37	-22.65	-92.21	8.00	92.19	1858670.29	11896591.85	1118.43
2500.00	33.84	256.2	2475.83	-28.94	-117.82	8.00	117.79	1858644.68	11896585.56	1075.97
2550.00	37.84	256.2	2516.36	-35.92	-146.25	8.00	146.21	1858616.25	11896578.58	1035.44
2600.00	41.84	256.2	2554.74	-43.56	-177.35	8.00	177.31	1858585.15	11896570.94	997.06
2650.00	45.84	256.2	2590.80	-51.82	-210.98	8.00	210.92	1858551.52	11896562.68	961.00
2700.00	49.84	256.2	2624.35	-60.66	-246.96	8.00	246.90	1858515.54	11896553.84	927.45
2750.00	53.84	256.2	2655.24	-70.04	-285.14	8.00	285.06	1858477.36	11896544.46	896.56
*** 55 DEGREE TANGENT (at MD = 2764.50)										
2764.50	55.00	256.2	2663.67	-72.85	-296.59	8.00	296.51	1858465.91	11896541.65	888.13
2800.00	55.00	256.2	2684.04	-79.79	-324.83	0.00	324.74	1858437.67	11896534.71	867.76
2850.00	55.00	256.2	2712.72	-89.56	-364.60	0.00	364.51	1858397.90	11896524.94	839.08
2900.00	55.00	256.2	2741.39	-99.33	-404.38	0.00	404.27	1858358.12	11896515.18	810.41
2950.00	55.00	256.2	2770.07	-109.09	-444.15	0.00	444.04	1858318.35	11896505.41	781.73
3000.00	55.00	256.2	2798.75	-118.86	-483.93	0.00	483.80	1858278.57	11896495.64	753.05
*** 10 DEGREE BUILD (at MD = 3014.50)										
3014.50	55.00	256.2	2807.07	-121.70	-495.46	0.00	495.34	1858267.04	11896492.80	744.73
3050.00	58.28	257.8	2826.59	-128.35	-524.35	10.00	524.22	1858238.15	11896486.15	725.21
3100.00	62.92	260.0	2851.13	-136.71	-567.09	10.00	566.94	1858195.41	11896477.79	700.67
3150.00	67.59	261.9	2872.06	-143.84	-611.92	10.00	611.77	1858150.58	11896470.66	679.74
3200.00	72.29	263.7	2889.20	-149.69	-658.50	10.00	658.35	1858104.00	11896464.81	662.60
3250.00	77.00	265.5	2902.44	-154.20	-706.49	10.00	706.33	1858056.01	11896460.30	649.36
3300.00	81.73	267.2	2911.66	-157.35	-755.52	10.00	755.35	1858006.98	11896457.15	640.14
3350.00	86.46	268.8	2916.81	-159.11	-805.20	10.00	805.04	1857957.30	11896455.39	634.99
*** LANDING POINT (at MD = 3389.65)										
3389.65	90.21	270.1	2917.96	-159.51	-844.83	10.00	844.66	1857917.67	11896454.99	633.84
3400.00	90.21	270.1	2917.92	-159.50	-855.18	0.00	855.01	1857907.32	11896455.00	633.88

### Compton 5 Federal Com 1H, Plan 1

<b>Operator</b> Redwood Operating LLC	<b>Units</b> feet, °/100ft	15:46 Monday, April 03, 2023 Page 2 of 4
<b>Field</b> Red Lake	<b>County</b> Eddy	<b>Vertical Section Azimuth</b> 270.06
<b>Well Name</b> Compton 5 Federal Com 1H	<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: 1150 FSL & 550 FWL Section 4-T18S-R27E BHL: 990 FSL & 1 FWL Section 5-T18S-R26E	<b>Map Zone</b> UTM	<b>Lat Long Ref</b>
<b>Site</b>	<b>Surface X</b> 1858762.5	<b>Surface Long</b>
<b>Slot Name</b>	<b>Surface Y</b> 11896614.5	<b>Surface Lat</b>
<b>Well Number</b> 1H	<b>Surface Z</b> 3551.8	<b>Global Z Ref</b> KB
<b>Project</b>	<b>Ground Level</b> 3533	<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
3450.00	90.21	270.1	2917.74	-159.45	-905.18	0.00	905.01	1857857.32	11896455.05	634.06
3500.00	90.21	270.1	2917.56	-159.40	-955.18	0.00	955.01	1857807.32	11896455.10	634.24
3550.00	90.21	270.1	2917.37	-159.35	-1005.18	0.00	1005.01	1857757.32	11896455.15	634.43
3600.00	90.21	270.1	2917.19	-159.29	-1055.18	0.00	1055.01	1857707.33	11896455.21	634.61
3650.00	90.21	270.1	2917.01	-159.24	-1105.17	0.00	1105.01	1857657.33	11896455.26	634.79
3700.00	90.21	270.1	2916.82	-159.19	-1155.17	0.00	1155.01	1857607.33	11896455.31	634.98
3750.00	90.21	270.1	2916.64	-159.14	-1205.17	0.00	1205.01	1857557.33	11896455.36	635.16
3800.00	90.21	270.1	2916.46	-159.08	-1255.17	0.00	1255.01	1857507.33	11896455.42	635.34
3850.00	90.21	270.1	2916.27	-159.03	-1305.17	0.00	1305.01	1857457.33	11896455.47	635.53
3900.00	90.21	270.1	2916.09	-158.98	-1355.17	0.00	1355.01	1857407.33	11896455.52	635.71
3950.00	90.21	270.1	2915.91	-158.93	-1405.17	0.00	1405.01	1857357.33	11896455.57	635.89
4000.00	90.21	270.1	2915.72	-158.87	-1455.17	0.00	1455.00	1857307.33	11896455.63	636.08
4050.00	90.21	270.1	2915.54	-158.82	-1505.17	0.00	1505.00	1857257.33	11896455.68	636.26
4100.00	90.21	270.1	2915.36	-158.77	-1555.17	0.00	1555.00	1857207.33	11896455.73	636.44
4150.00	90.21	270.1	2915.17	-158.72	-1605.17	0.00	1605.00	1857157.33	11896455.78	636.63
4200.00	90.21	270.1	2914.99	-158.66	-1655.17	0.00	1655.00	1857107.33	11896455.84	636.81
4250.00	90.21	270.1	2914.81	-158.61	-1705.17	0.00	1705.00	1857057.33	11896455.89	636.99
4300.00	90.21	270.1	2914.62	-158.56	-1755.17	0.00	1755.00	1857007.33	11896455.94	637.18
4350.00	90.21	270.1	2914.44	-158.51	-1805.17	0.00	1805.00	1856957.33	11896455.99	637.36
4400.00	90.21	270.1	2914.26	-158.46	-1855.17	0.00	1855.00	1856907.33	11896456.04	637.54
4450.00	90.21	270.1	2914.07	-158.40	-1905.17	0.00	1905.00	1856857.33	11896456.10	637.73
4500.00	90.21	270.1	2913.89	-158.35	-1955.17	0.00	1955.00	1856807.33	11896456.15	637.91
4550.00	90.21	270.1	2913.71	-158.30	-2005.17	0.00	2005.00	1856757.33	11896456.20	638.09
4600.00	90.21	270.1	2913.52	-158.25	-2055.17	0.00	2055.00	1856707.33	11896456.25	638.28
4650.00	90.21	270.1	2913.34	-158.19	-2105.17	0.00	2105.00	1856657.33	11896456.31	638.46
4700.00	90.21	270.1	2913.16	-158.14	-2155.17	0.00	2155.00	1856607.33	11896456.36	638.64
4750.00	90.21	270.1	2912.97	-158.09	-2205.17	0.00	2205.00	1856557.33	11896456.41	638.83
4800.00	90.21	270.1	2912.79	-158.04	-2255.17	0.00	2255.00	1856507.33	11896456.46	639.01
4850.00	90.21	270.1	2912.61	-157.98	-2305.17	0.00	2305.00	1856457.33	11896456.52	639.19
4900.00	90.21	270.1	2912.42	-157.93	-2355.17	0.00	2355.00	1856407.33	11896456.57	639.38
4950.00	90.21	270.1	2912.24	-157.88	-2405.17	0.00	2405.00	1856357.33	11896456.62	639.56
5000.00	90.21	270.1	2912.06	-157.83	-2455.16	0.00	2455.00	1856307.34	11896456.67	639.74
5050.00	90.21	270.1	2911.87	-157.77	-2505.16	0.00	2505.00	1856257.34	11896456.73	639.93
5100.00	90.21	270.1	2911.69	-157.72	-2555.16	0.00	2555.00	1856207.34	11896456.78	640.11
5150.00	90.21	270.1	2911.51	-157.67	-2605.16	0.00	2605.00	1856157.34	11896456.83	640.29
5200.00	90.21	270.1	2911.32	-157.62	-2655.16	0.00	2655.00	1856107.34	11896456.88	640.48
5250.00	90.21	270.1	2911.14	-157.57	-2705.16	0.00	2705.00	1856057.34	11896456.93	640.66

### Compton 5 Federal Com 1H, Plan 1

<b>Operator</b> Redwood Operating LLC	<b>Units</b> feet, °/100ft	15:46 Monday, April 03, 2023 Page 3 of 4
<b>Field</b> Red Lake	<b>County</b> Eddy	<b>Vertical Section Azimuth</b> 270.06
<b>Well Name</b> Compton 5 Federal Com 1H	<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: 1150 FSL & 550 FWL Section 4-T18S-R27E BHL: 990 FSL & 1 FWL Section 5-T18S-R26E	<b>Map Zone</b> UTM	<b>Lat Long Ref</b>
<b>Site</b>	<b>Surface X</b> 1858762.5	<b>Surface Long</b>
<b>Slot Name</b>	<b>Surface Y</b> 11896614.5	<b>Surface Lat</b>
<b>Well Number</b> 1H	<b>Surface Z</b> 3551.8	<b>Global Z Ref</b> KB
<b>Project</b>	<b>Ground Level</b> 3533	<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
5300.00	90.21	270.1	2910.96	-157.51	-2755.16	0.00	2755.00	1856007.34	11896456.99	640.84
5350.00	90.21	270.1	2910.77	-157.46	-2805.16	0.00	2805.00	1855957.34	11896457.04	641.03
5400.00	90.21	270.1	2910.59	-157.41	-2855.16	0.00	2855.00	1855907.34	11896457.09	641.21
5450.00	90.21	270.1	2910.41	-157.36	-2905.16	0.00	2905.00	1855857.34	11896457.14	641.39
5500.00	90.21	270.1	2910.23	-157.30	-2955.16	0.00	2954.99	1855807.34	11896457.20	641.57
5550.00	90.21	270.1	2910.04	-157.25	-3005.16	0.00	3004.99	1855757.34	11896457.25	641.76
5600.00	90.21	270.1	2909.86	-157.20	-3055.16	0.00	3054.99	1855707.34	11896457.30	641.94
5650.00	90.21	270.1	2909.68	-157.15	-3105.16	0.00	3104.99	1855657.34	11896457.35	642.12
5700.00	90.21	270.1	2909.49	-157.09	-3155.16	0.00	3154.99	1855607.34	11896457.41	642.31
5750.00	90.21	270.1	2909.31	-157.04	-3205.16	0.00	3204.99	1855557.34	11896457.46	642.49
5800.00	90.21	270.1	2909.13	-156.99	-3255.16	0.00	3254.99	1855507.34	11896457.51	642.67
5850.00	90.21	270.1	2908.94	-156.94	-3305.16	0.00	3304.99	1855457.34	11896457.56	642.86
5900.00	90.21	270.1	2908.76	-156.88	-3355.16	0.00	3354.99	1855407.34	11896457.62	643.04
5950.00	90.21	270.1	2908.58	-156.83	-3405.16	0.00	3404.99	1855357.34	11896457.67	643.22
6000.00	90.21	270.1	2908.39	-156.78	-3455.16	0.00	3454.99	1855307.34	11896457.72	643.41
6050.00	90.21	270.1	2908.21	-156.73	-3505.16	0.00	3504.99	1855257.34	11896457.77	643.59
6100.00	90.21	270.1	2908.03	-156.68	-3555.16	0.00	3554.99	1855207.34	11896457.83	643.77
6150.00	90.21	270.1	2907.84	-156.62	-3605.16	0.00	3604.99	1855157.34	11896457.88	643.96
6200.00	90.21	270.1	2907.66	-156.57	-3655.16	0.00	3654.99	1855107.34	11896457.93	644.14
6250.00	90.21	270.1	2907.48	-156.52	-3705.16	0.00	3704.99	1855057.34	11896457.98	644.32
6300.00	90.21	270.1	2907.29	-156.47	-3755.16	0.00	3754.99	1855007.34	11896458.03	644.51
6350.00	90.21	270.1	2907.11	-156.41	-3805.16	0.00	3804.99	1854957.35	11896458.09	644.69
6400.00	90.21	270.1	2906.93	-156.36	-3855.15	0.00	3854.99	1854907.35	11896458.14	644.87
6450.00	90.21	270.1	2906.74	-156.31	-3905.15	0.00	3904.99	1854857.35	11896458.19	645.06
6500.00	90.21	270.1	2906.56	-156.26	-3955.15	0.00	3954.99	1854807.35	11896458.24	645.24
6550.00	90.21	270.1	2906.38	-156.20	-4005.15	0.00	4004.99	1854757.35	11896458.30	645.42
6600.00	90.21	270.1	2906.19	-156.15	-4055.15	0.00	4054.99	1854707.35	11896458.35	645.61
6650.00	90.21	270.1	2906.01	-156.10	-4105.15	0.00	4104.99	1854657.35	11896458.40	645.79
6700.00	90.21	270.1	2905.83	-156.05	-4155.15	0.00	4154.99	1854607.35	11896458.45	645.97
6750.00	90.21	270.1	2905.64	-155.99	-4205.15	0.00	4204.99	1854557.35	11896458.51	646.16
6800.00	90.21	270.1	2905.46	-155.94	-4255.15	0.00	4254.99	1854507.35	11896458.56	646.34
6850.00	90.21	270.1	2905.28	-155.89	-4305.15	0.00	4304.99	1854457.35	11896458.61	646.52
6900.00	90.21	270.1	2905.09	-155.84	-4355.15	0.00	4354.99	1854407.35	11896458.66	646.71
6950.00	90.21	270.1	2904.91	-155.78	-4405.15	0.00	4404.99	1854357.35	11896458.72	646.89
7000.00	90.21	270.1	2904.73	-155.73	-4455.15	0.00	4454.98	1854307.35	11896458.77	647.07
7050.00	90.21	270.1	2904.54	-155.68	-4505.15	0.00	4504.98	1854257.35	11896458.82	647.26
7100.00	90.21	270.1	2904.36	-155.63	-4555.15	0.00	4554.98	1854207.35	11896458.87	647.44

### Compton 5 Federal Com 1H, Plan 1

<b>Operator</b> Redwood Operating LLC	<b>Units</b> feet, °/100ft	15:46 Monday, April 03, 2023 Page 4 of 4
<b>Field</b> Red Lake	<b>County</b> Eddy	<b>Vertical Section Azimuth</b> 270.06
<b>Well Name</b> Compton 5 Federal Com 1H	<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: 1150 FSL & 550 FWL Section 4-T18S-R27E BHL: 990 FSL & 1 FWL Section 5-T18S-R26E	<b>Map Zone</b> UTM	<b>Lat Long Ref</b>
<b>Site</b>	<b>Surface X</b> 1858762.5	<b>Surface Long</b>
<b>Slot Name</b>	<b>Surface Y</b> 11896614.5	<b>Surface Lat</b>
<b>Well Number</b> 1H	<b>Surface Z</b> 3551.8	<b>Global Z Ref</b> KB
<b>Project</b>	<b>Ground Level</b> 3533	<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
7150.00	90.21	270.1	2904.18	-155.58	-4605.15	0.00	4604.98	1854157.35	11896458.92	647.62
7200.00	90.21	270.1	2903.99	-155.52	-4655.15	0.00	4654.98	1854107.35	11896458.98	647.81
7250.00	90.21	270.1	2903.81	-155.47	-4705.15	0.00	4704.98	1854057.35	11896459.03	647.99
7300.00	90.21	270.1	2903.63	-155.42	-4755.15	0.00	4754.98	1854007.35	11896459.08	648.17
7350.00	90.21	270.1	2903.44	-155.37	-4805.15	0.00	4804.98	1853957.35	11896459.13	648.36
7400.00	90.21	270.1	2903.26	-155.31	-4855.15	0.00	4854.98	1853907.35	11896459.19	648.54
7450.00	90.21	270.1	2903.08	-155.26	-4905.15	0.00	4904.98	1853857.35	11896459.24	648.72
7500.00	90.21	270.1	2902.89	-155.21	-4955.15	0.00	4954.98	1853807.35	11896459.29	648.91
7550.00	90.21	270.1	2902.71	-155.16	-5005.15	0.00	5004.98	1853757.35	11896459.34	649.09
7600.00	90.21	270.1	2902.53	-155.10	-5055.15	0.00	5054.98	1853707.35	11896459.40	649.27
7650.00	90.21	270.1	2902.35	-155.05	-5105.15	0.00	5104.98	1853657.35	11896459.45	649.46
7700.00	90.21	270.1	2902.16	-155.00	-5155.15	0.00	5154.98	1853607.35	11896459.50	649.64
7750.00	90.21	270.1	2901.98	-154.95	-5205.14	0.00	5204.98	1853557.36	11896459.55	649.82
7800.00	90.21	270.1	2901.80	-154.89	-5255.14	0.00	5254.98	1853507.36	11896459.61	650.00
7850.00	90.21	270.1	2901.61	-154.84	-5305.14	0.00	5304.98	1853457.36	11896459.66	650.19
7900.00	90.21	270.1	2901.43	-154.79	-5355.14	0.00	5354.98	1853407.36	11896459.71	650.37
7950.00	90.21	270.1	2901.25	-154.74	-5405.14	0.00	5404.98	1853357.36	11896459.76	650.55
8000.00	90.21	270.1	2901.06	-154.69	-5455.14	0.00	5454.98	1853307.36	11896459.81	650.74
8050.00	90.21	270.1	2900.88	-154.63	-5505.14	0.00	5504.98	1853257.36	11896459.87	650.92
8100.00	90.21	270.1	2900.70	-154.58	-5555.14	0.00	5554.98	1853207.36	11896459.92	651.10
8150.00	90.21	270.1	2900.51	-154.53	-5605.14	0.00	5604.98	1853157.36	11896459.97	651.29
8200.00	90.21	270.1	2900.33	-154.48	-5655.14	0.00	5654.98	1853107.36	11896460.02	651.47
8250.00	90.21	270.1	2900.15	-154.42	-5705.14	0.00	5704.98	1853057.36	11896460.08	651.65
8300.00	90.21	270.1	2899.96	-154.37	-5755.14	0.00	5754.98	1853007.36	11896460.13	651.84
8350.00	90.21	270.1	2899.78	-154.32	-5805.14	0.00	5804.98	1852957.36	11896460.18	652.02
*** TD (at MD = 8384.65)										
8384.65	90.21	270.1	2899.65	-154.28	-5839.79	0.00	5839.63	1852922.71	11896460.22	652.15

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	<b>REDWOOD OPERATING LLC</b>
<b>LEASE NO.:</b>	<b>NMLC0055383A</b>
<b>WELL NAME &amp; NO.:</b>	<b>COMPTON 5 FEDERAL COM 1H</b>
<b>SURFACE HOLE FOOTAGE:</b>	590'/S & 695'/W
<b>BOTTOM HOLE FOOTAGE:</b>	990'/S & 1'/W
<b>LOCATION:</b>	Section 04, T.18 S., R.27 E., NMPM
<b>COUNTY:</b>	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 checked="" type="radio"/> None	<input type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Other	<input type="checkbox"/> 4 String Area	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input type="checkbox"/> Fluid Filled	<input type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit

**A. HYDROGEN SULFIDE**

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 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**

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 and above the salt) and cemented to the surface.
  - 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 **1385** feet. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

**Option 1 (Single Stage):**

- 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** inch production casing is:

**Option 1 (Single Stage):**

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

**A. 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. BOP REQUIREMENTS**

**Option 1:**

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M)** psi.

- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **2000 (2M)** psi.

### **Option 2:**

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** 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 OOGO2.III.A.2.i must be followed.

## **B. 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.
- 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

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,  
(575) 361-2822

Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)  
393-3612

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 Onshore Oil and Gas Order No. 2 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 Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
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 OOGO2.III.A.2.i 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 when specified), 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 plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 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 Onshore Order No. 2.

**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.

**RI01312022**

Attached to Form 5160-3  
Redwood Operating LLC  
Compton 5 Federal Com #1H NMNM-0029135 NMLC-0055383A  
SHL : 1150 FSL & 550 FWL, SWSW, Sec. 4 T18S R27E  
BHL : 990 FSL & 1 FWL, SWSW, Sec. 5 T18S R27E  
Eddy County, NM

---

## Redwood Operating LLC Onshore Order #6 Hydrogen Sulfide Drilling Operation Plan

### I. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

1. The hazards and characteristics of hydrogen sulfide (H<sub>2</sub>S)
2. The proper use and maintenance of personal protective equipment and life support systems.
3. The proper use of H<sub>2</sub>S detectors alarms warning systems, briefing areas, evacuation procedures, and prevailing winds.
4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

1. The effects of H<sub>2</sub>S on metal components. If high tensile tubular are to be used, personnel will be trained in their special maintenance requirements.
2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
3. The contents and requirements of the H<sub>2</sub>S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H<sub>2</sub>S zone (within 3 days or 500 feet) and weekly H<sub>2</sub>S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H<sub>2</sub>S Drilling Operations Plan and the Public Protection Plan. **The concentrations of H<sub>2</sub>S of wells in this area from surface to TD are low enough that a contingency plan is not required.**

### II. H<sub>2</sub>S SAFETY EQUIPMENT AND SYSTEMS

Note: All H<sub>2</sub>S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonable expected to contain H<sub>2</sub>S.

#### 1. Well Control Equipment:

- A. Flare line.
- B. Choke manifold.
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
- D. Auxiliary equipment may include if applicable: annular preventer & rotating head.

**Redwood Operating LLC**  
**Compton 5 Federal Com #1H NMNM-0029135 NMLC-0055383A**  
**SHL : 1150 FSL & 550 FWL, SWSW, Sec. 4 T18S R27E**  
**BHL : 990 FSL & 1 FWL, SWSW, Sec. 5 T18S R27E**  
**Eddy County, NM**

---

**2. Protective equipment for essential personnel:**

- A. Mark II Survive air 30-minute units located in the doghouse and at briefing areas, as indicated on well site diagram.

**3. H2S detection and monitoring equipment:**

- A. 1 portable H2S monitors positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 PPM are reached.

**4. Visual warning systems:**

- A. Wind direction indicators as shown on well site diagram (Exhibit #8).
- B. Caution/Danger signs (Exhibit #7) shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.

**5. Mud program:**

- A. The mud program has been designed to minimize the volume of H2S circulated to surface. Proper mud weight, safe drilling practices and the use of H2S scavengers will minimize hazards when penetrating H2S bearing zones.

**6. Metallurgy:**

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
- B. All elastomers used for packing and seals shall be H2S trim.

**7. Communication:**

- A. Radio communications in company vehicles including cellular telephone and 2-way radio.
- B. Land line (telephone) communication at Office.

**8. Well testing:**

- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safely and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H2S environment will use the closed chamber method of testing.

Attached to Form 5160-3

Redwood Operating LLC

Compton 5 Federal Com #1H NMNM-0029135 NMLC-0055383A

SHL : 1150 FSL & 550 FWL, SWSW, Sec. 4 T18S R27E

BHL : 990 FSL & 1 FWL, SWSW, Sec. 5 T18S R27E

Eddy County, NM

B. There will be no drill stem testing.

**EXHIBIT #7**

**WARNING**

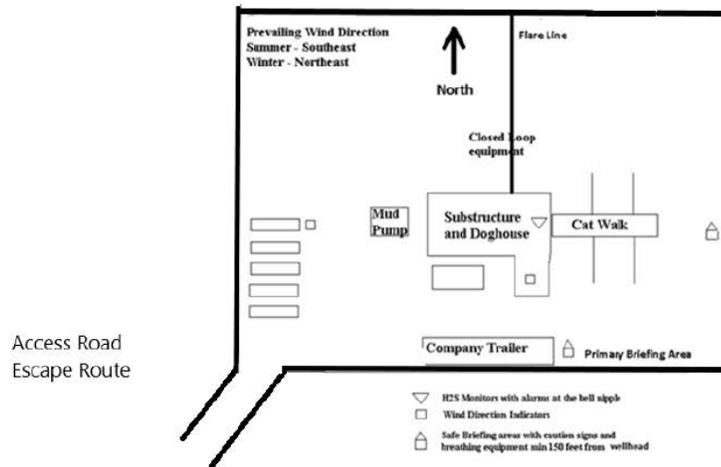
**YOU ARE ENTERING AN H2S**  
**AUTHORIZED PERSONNEL ONLY**

- 1. BEARDS OR CONTACT LENSES NOT ALLOWED**
- 2. HARD HATS REQUIRED**
- 3. SMOKING IN DESIGNATED AREAS ONLY**
- 4. BE WIND CONSCIOUS AT ALL TIMES**
- 5. CHECK WITH Redwood Operating FOREMAN AT OFFICE**

**Redwood Operating LLC**

**1-575-748-1288**

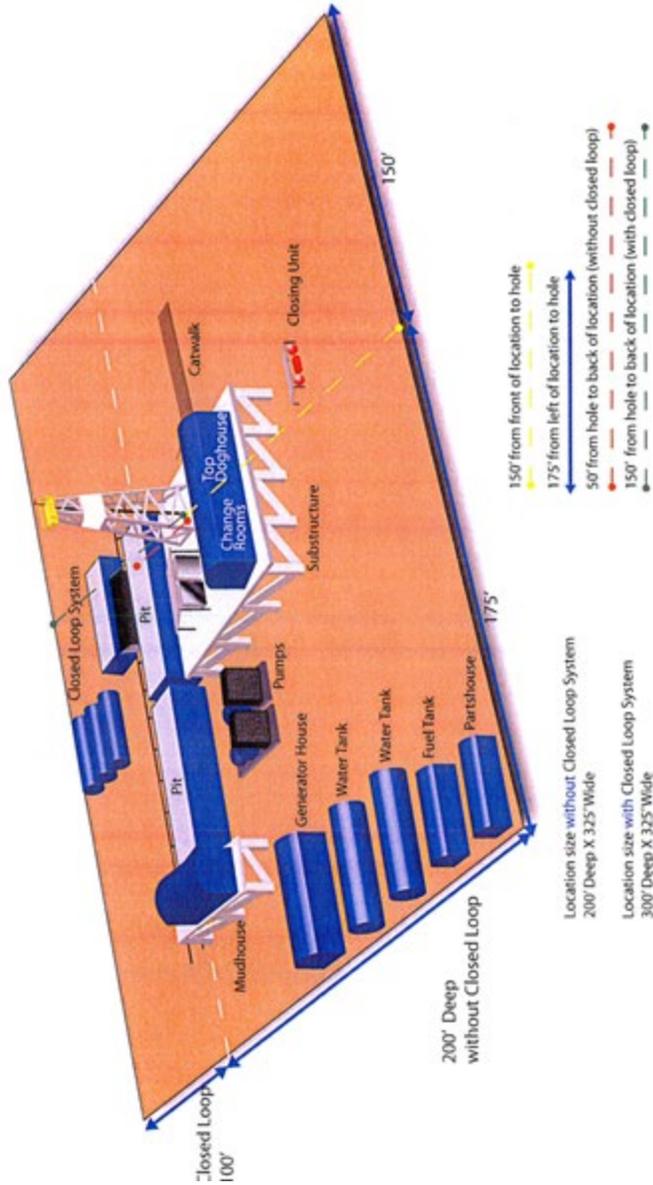
Warning sign @ access road entrance



Attached to Form 5160-3  
Redwood Operating LLC  
Compton 5 Federal Com #1H NMNM-0029135 NMLC-0055383A  
SHL : 1150 FSL & 550 FWL, SWSW, Sec. 4 T18S R27E  
BHL : 990 FSL & 1 FWL, SWSW, Sec. 5 T18S R27E  
Eddy County, NM

**DRILLING LOCATION H2S SAFTY EQUIPMENT**  
**Exhibit # 8**

**Location Layout**



**Redwood Operating LLC Call List, Eddy County**

<b>Artesia (575)</b>	<b>Cellular</b>	<b>Office</b>
Jim Krogman.....	432-934-1596.....	748-1288
Emilio Martinez.....	432-934-7586.....	748-1288

**Agency Call List (575)**

**Artesia**

State Police.....	746-2703
City Police.....	746-2703
Sheriff's Office.....	746-9888
Ambulance.....	911
Fire Department.....	746-2701
LEPC (Local Emergency Planning Committee.....	746-2122
NMOCD.....	748-1283

**Carlsbad**

State Police.....	885-3137
City Police.....	885-2111
Sheriff's Office.....	887-7551
Ambulance.....	911
Fire Department.....	885-2111
LEPC (Local Emergency Planning Committee.....	887-3798
Bureau of Land Management.....	887-6544
New Mexico Emergency Response Commission.....	(505)476-9690
24 Hour.....	(505)827-9126
Natonal Emergency Response Center (Washington).....	(800)424-8802

**Emergency Services**

Boots & Coots IWC.....	1-800-256-9688 or (281)931-8884
Cudd pressure Control.....	(915)699-0139 or (915)563-3356
Halliburton.....	746-2757
Par Five.....	748-9539
Flight For Life-Lubbock, TX.....	(806)743-9911
Aerocare-Lubbock, TX.....	(806)747-8923
Med Flight Air Amb-Albuquerque, NM.....	(505)842-4433
Lifeguard Air Med Svc. Albuquerque, NM.....	(505)272-3115

Intent   As Drilled

API #		
Operator Name: REDWOOD OPERATING, LLC	Property Name: COMPTON 5 FEDERAL COM	Well Number 1H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
M	4	18S	27E		1150	SOUTH	550	WEST	EDDY
Latitude 32.7726943					Longitude 104.2902242				NAD 83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
P	5	18S	27E		990	SOUTH	660	EAST	LEA
Latitude 32.7722532					Longitude 104.2941542				NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
M	5	18S	27E		990	SOUTH	100	WEST	LEA
Latitude 32.7722699					Longitude 104.3088367				NAD 83

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

09/27/2023

APD ID: 10400074938

Submission Date: 06/07/2021

Highlighted data reflects the most recent changes

Operator Name: REDWOOD OPERATING LLC

Well Name: COMPTON 5 FEDERAL COM

Well Number: 1H

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
12207286	QUATERNARY	3535	0	0	ALLUVIUM	NONE	N
12207287	QUEEN	2875	660	660	SILTSTONE	NATURAL GAS, OIL	N
12207291	GRAYBURG	2476	1059	1059	DOLOMITE, SILTSTONE	NATURAL GAS, OIL	N
12207288	SAN ANDRES	2256	1279	1279	DOLOMITE	NATURAL GAS, OIL	N
12207289	GLORIETA	896	2639	2639	SILTSTONE	NATURAL GAS, OIL	Y
12207290	YESO	752	2783	2783	DOLOMITE	NATURAL GAS, OIL	Y

## Section 2 - Blowout Prevention

Pressure Rating (PSI): 3M

Rating Depth: 8385

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 30 minutes without a test plug. The estimated bottom hole at TD is 120 degrees and estimated maximum bottom hole pressure is 1387 psig (0.052\*2900' TVD\*9.2ppg) less than 2900 bottom hole pressure

**Choke Diagram Attachment:**

NEW\_Choke\_Manifold\_3M\_20230829100952.pdf

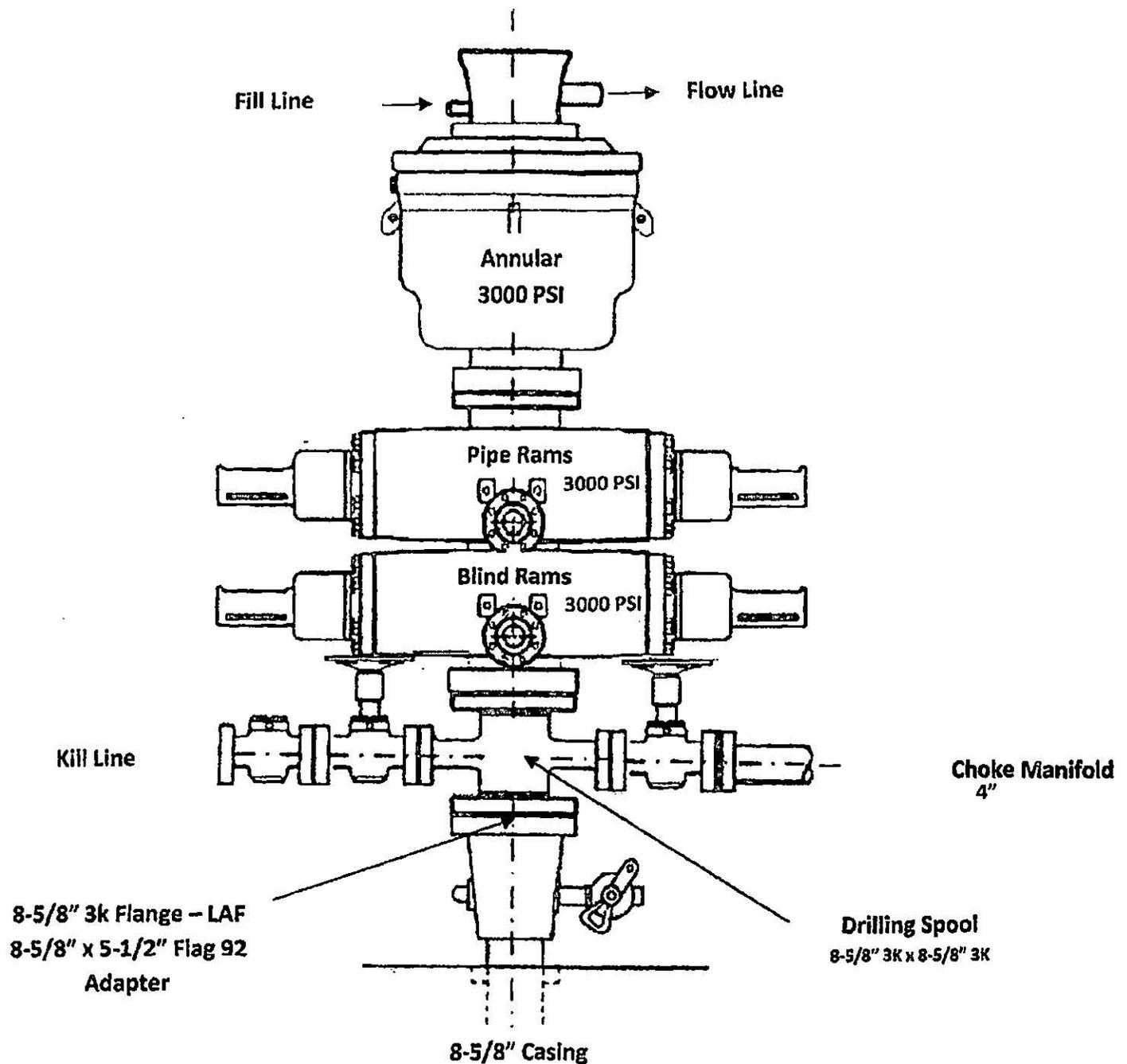
**BOP Diagram Attachment:**

NEW\_BOP\_3M\_20230829101006.pdf

# BOP Diagram

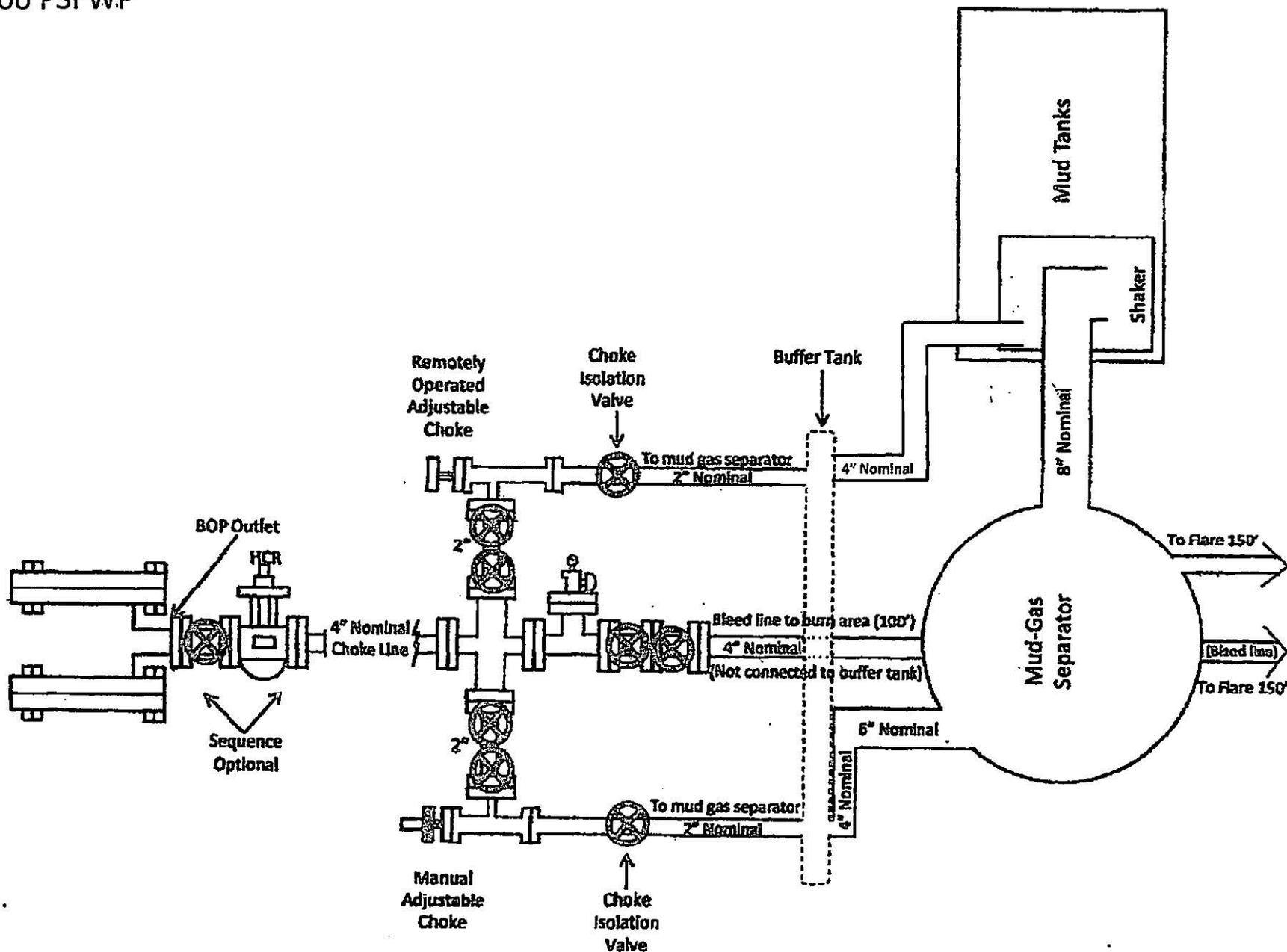
Dual Ram BOP

3000 PSI WP



# Choke Manifold

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 269715

**CONDITIONS**

Operator: Redwood Operating LLC PO Box 1370 Artesia, NM 88210	OGRID:	330211
	Action Number:	269715
	Action Type:	[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	9/29/2023
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	9/29/2023
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	9/29/2023
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	9/29/2023
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	9/29/2023
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	9/29/2023