

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

Form C-101

August 1, 2011

Permit 299527

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address Redwood Operating LLC PO Box 1370 Artesia, NM 882111370		2. OGRID Number 330211
		3. API Number 30-015-48886
4. Property Code 329360	5. Property Name BRAINARD 11	6. Well No. 003H

7. Surface Location

UL - Lot D	Section 12	Township 18S	Range 26E	Lot Idn D	Feet From 485	N/S Line N	Feet From 575	E/W Line W	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot D	Section 11	Township 18S	Range 26E	Lot Idn D	Feet From 900	N/S Line N	Feet From 1	E/W Line W	County Eddy
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9. Pool Information

RED LAKE;GLORIETA-YESO	51120
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type Private	15. Ground Level Elevation 3282
16. Multiple N	17. Proposed Depth 8344	18. Formation Yeso	19. Contractor	20. Spud Date 11/1/2021
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits**21. Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	9.625	36	1230	450	0
Prod	8.75	7	26	2850	1470	0
Prod	8.75	5.5	17	8344	375	0

Casing/Cement Program: Additional Comments

Redwood Operating proposed to drill 12 1/4 hole to 1230', run 9 5/8" csg/cmt. Drill 8 3/4" hole to 8344', run 7" & 5 1/2" csg/cmt, put well on production.
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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000	3000	

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.

Signature:

OIL CONSERVATION DIVISION

Printed Name: Electronically filed by Jerry Sherrell	Approved By: Kurt Simmons
Title: Regulatory Supervisor	Title: Petroleum Specialist - A
Email Address: jerrys@mec.com	Approved Date: 9/1/2021
Date: 8/12/2021	Expiration Date: 9/1/2023
Phone: 575-748-1288	Conditions of Approval Attached

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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

¹ API Number	² Pool Code 51120	³ Pool Name Red Lake; Glorieta-Yeso
⁴ Property Code 299527	⁵ Property Name BRAINARD 11	⁶ Well Number 3H
⁷ OGRID No. 330211	⁸ Operator Name REDWOOD OPERATING, LLC	⁹ Elevation 3282.7

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	12	18 S	26 E		485	NORTH	575	WEST	EDDY

¹¹ 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
D	11	18 S	26 E		990	NORTH	1	WEST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><u>Delilah Flores</u> 8/12/2021 Signature Date</p> <p><u>Delilah Flores</u> Printed Name</p> <p><u>regulatory@redwoodoperating.com</u> E-mail Address</p>		<p>18 SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>AUGUST 3, 2021 Date of Survey</p> <p><u>ALIMON F. JARAMILLO</u> Signature and Seal of Professional Surveyor</p> <p>Certificate Number: <u>LS 12797</u> Surveyor No. 8955</p>	
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Intent ☐ As Drilled ☐

API #		
Operator Name: REDWOOD OPERATING, LLC	Property Name: BRAINARD 11	Well Number 3H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL A	Section 12	Township 18S	Range 26E	Lot	Feet 990	From N/S NORTH	Feet 100	From E/W EAST	County EDDY
Latitude 32.7669996					Longitude 104.3441698				NAD 83

Last Take Point (LTP)

UL D	Section 12	Township 18S	Range 26E	Lot	Feet 990	From N/S NORTH	Feet 100	From E/W WEST	County EDDY
Latitude 32.7670738					Longitude 104.3607577				NAD 83

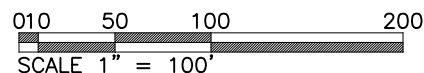
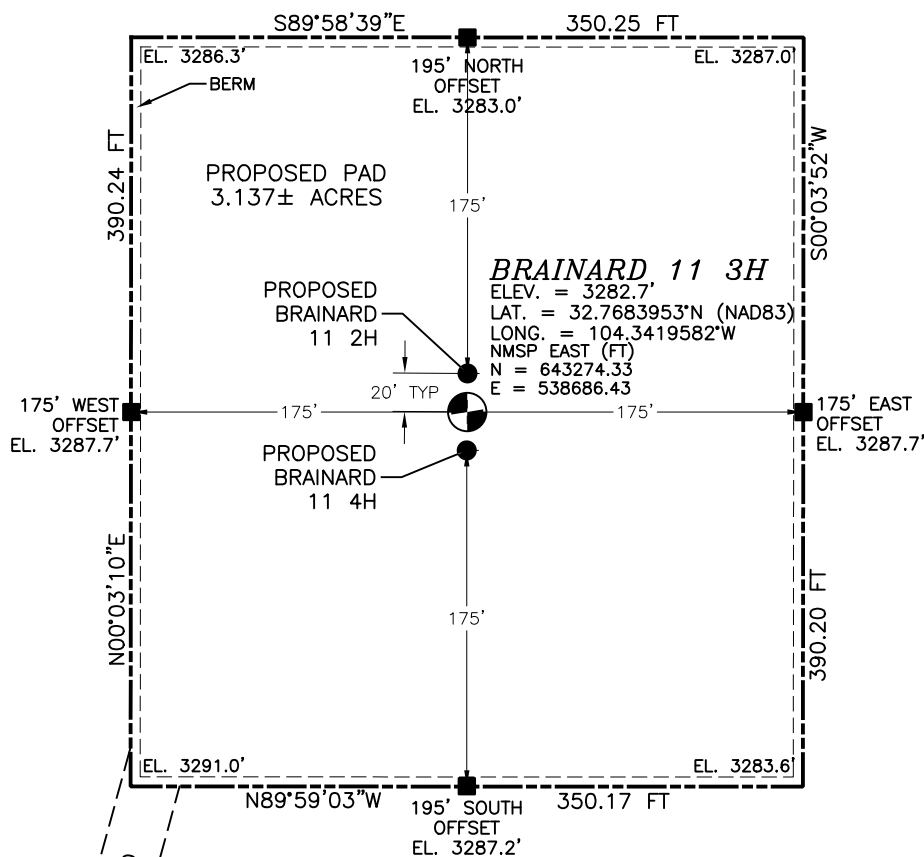
Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

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 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
SITE MAP



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF ST. HWY. 229 (HALEDEMAN) AND CO. RD. 46 (AARON) GO EAST ON CO. RD. 46 APPROX. 0.47 OF A MILE TO BEGINNING OF 20' CALICHE LEASE ROAD, CONTINUE EAST ON 20' CALICHE ROAD APPROX. 0.24 OF A MILE, CONTINUE NORTH ON 15' CALICHE ROAD APPROX. 0.24 MILES, CONTINUE EAST APPROX. 0.24 MILES, CONTINUE NORTHEAST ON 10' CALICHE ROAD APPROX. 367' TO SOUTHWEST CORNER OF AN EXISTING PAD FROM BEGIN ROAD SURVEY AT THE NORTHEAST PAD CORNER FOLLOW ROAD SURVEY NORTHEAST APPROX. 275' TO THE SOUTHWEST PAD CORNER FOR THIS LOCATION.

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

~~FILIMON F. JARAMILLO, RSE 13797~~

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

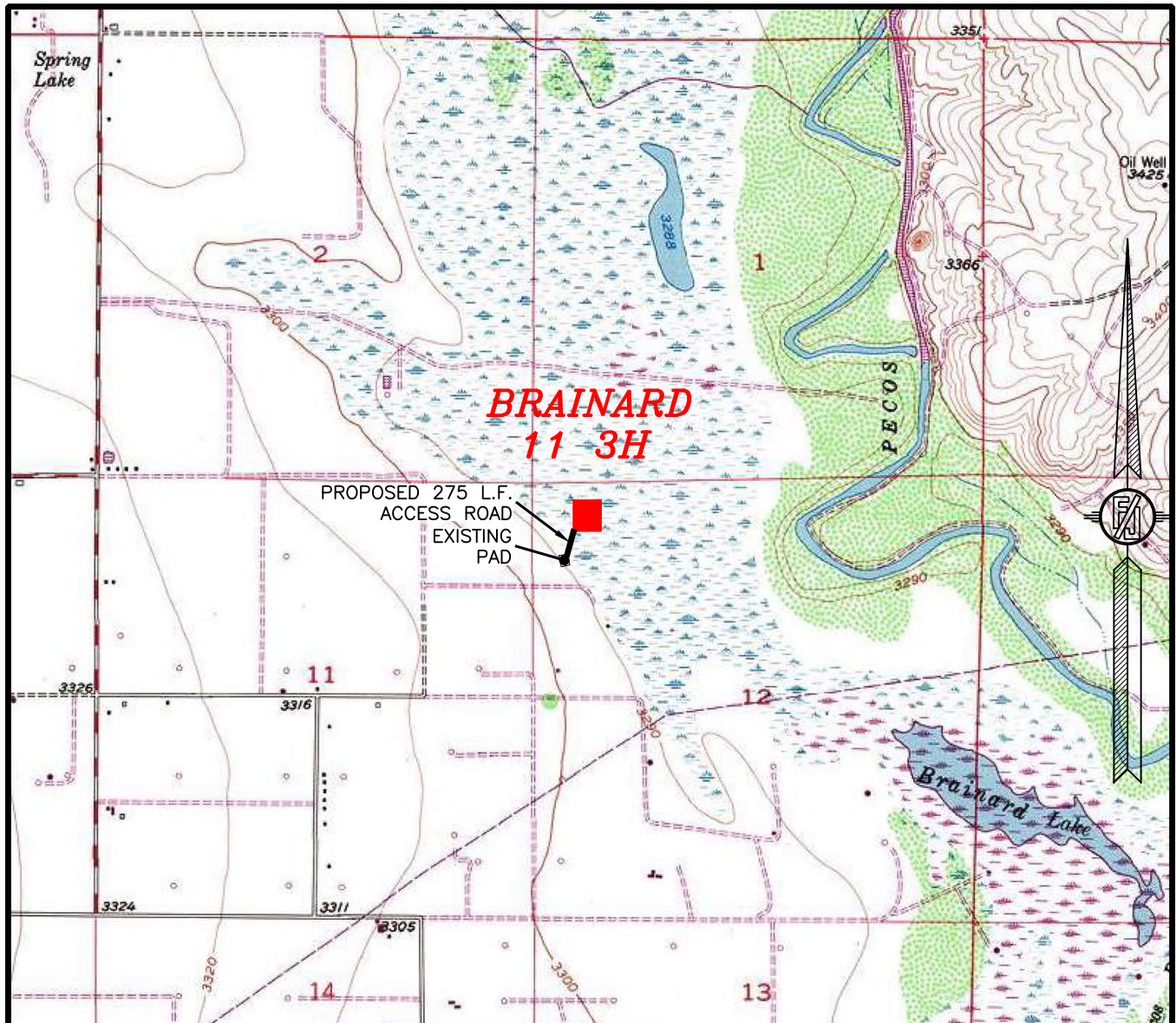
*REDWOOD OPERATING, LLC
BRAINARD 11 3H
LOCATED 485 FT. FROM THE NORTH LINE
AND 575 FT. FROM THE WEST LINE OF
SECTION 12, TOWNSHIP 18 SOUTH,
RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO*

AUGUST 3, 2021

SURVEY NO. 8955

CARLSBAD, NEW MEXICO

SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 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
BRAINARD 11 3H
 LOCATED 485 FT. FROM THE NORTH LINE
 AND 575 FT. FROM THE WEST LINE OF
 SECTION 12, TOWNSHIP 18 SOUTH,
 RANGE 26 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

AUGUST 3, 2021

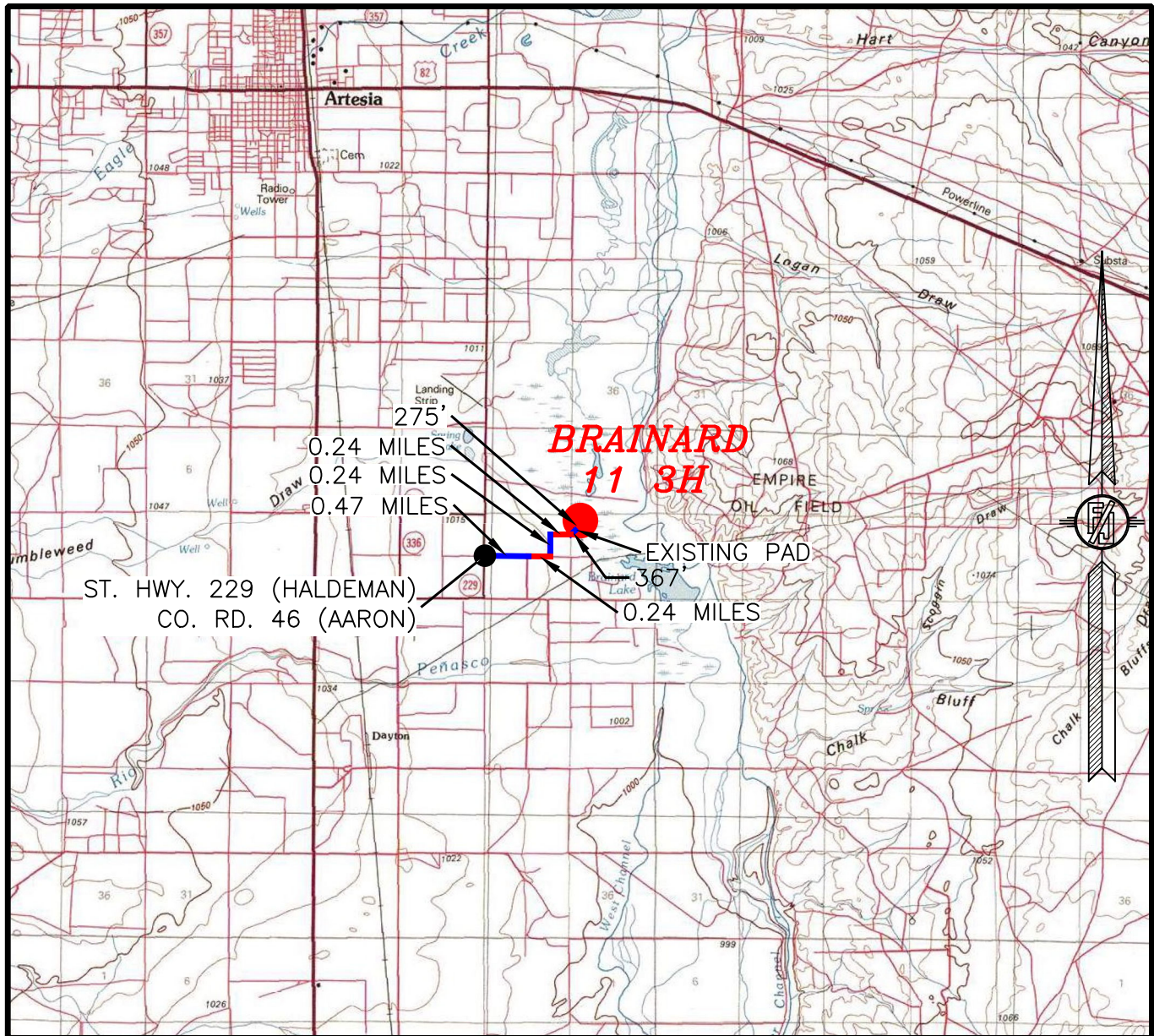
MADRON SURVEYING, INC.

301 SOUTH CANAL
 (575) 234-3341

CARLSBAD, NEW MEXICO

SURVEY NO. 8955

SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 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 ST. HWY. 229 (HALDEMAN) AND CO. RD. 46 (AARON) GO EAST ON CO. RD. 46 APPROX. 0.47 OF A MILE TO BEGINNING OF 20' CALICHE LEASE ROAD, CONTINUE EAST ON 20' CALICHE ROAD APPROX. 0.24 OF A MILE, CONTINUE NORTH ON 15' CALICHE ROAD APPROX. 0.24 MILES, CONTINUE EAST APPROX. 0.24 MILES, CONTINUE NORTHEAST ON 10' CALICHE ROAD APPROX. 367' TO SOUTHWEST CORNER OF AN EXISTING PAD, FROM BEGIN ROAD SURVEY AT THE NORTHEAST PAD CORNER FOLLOW ROAD SURVEY NORTHEAST APPROX. 275' TO THE SOUTHWEST PAD CORNER FOR THIS LOCATION.

REDWOOD OPERATING, LLC
BRAINARD 11 3H
LOCATED 485 FT. FROM THE NORTH LINE
AND 575 FT. FROM THE WEST LINE OF
SECTION 12, TOWNSHIP 18 SOUTH,
RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

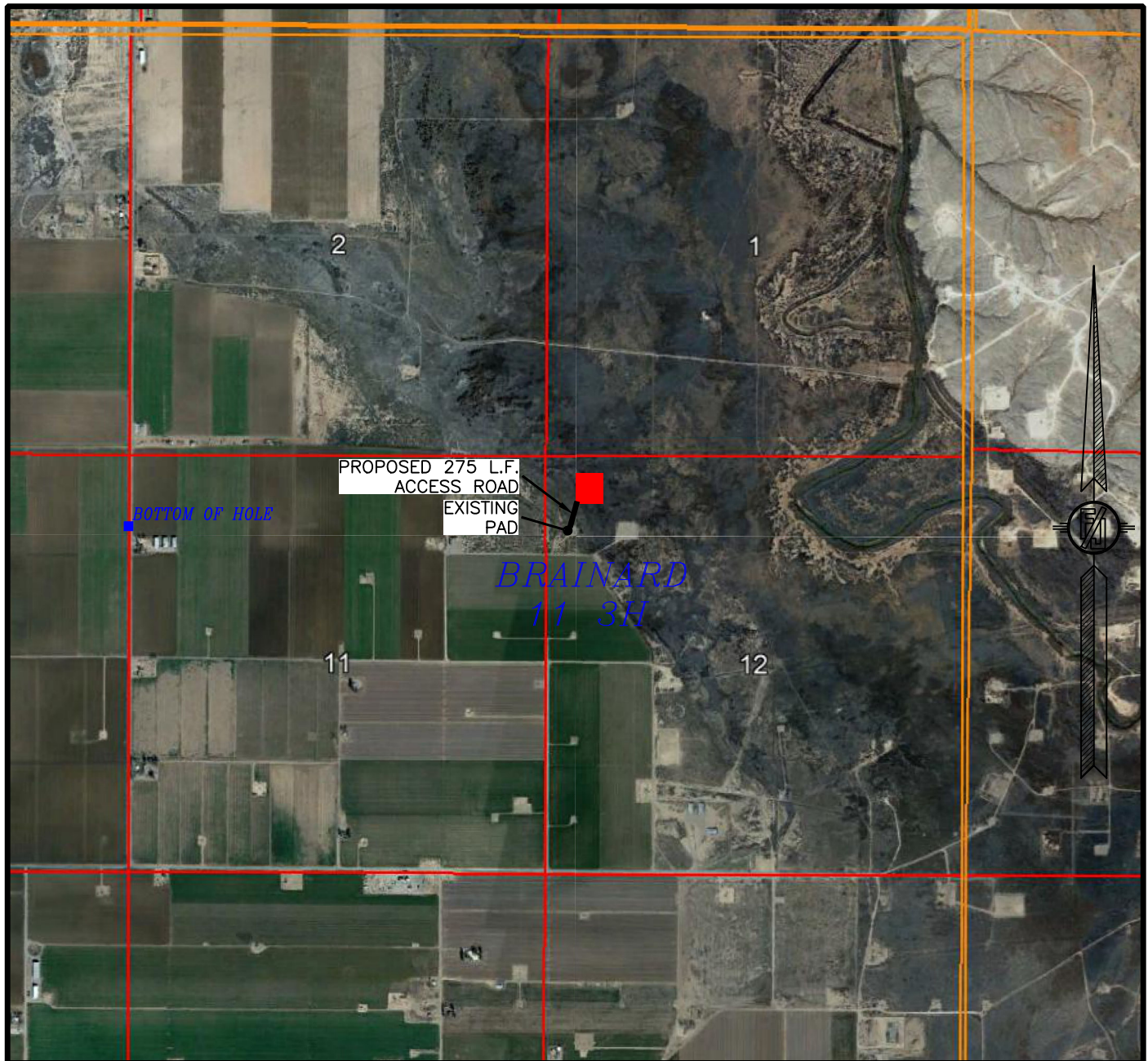
AUGUST 3, 2021

SURVEY NO. 8955

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

CARLSBAD, NEW MEXICO

SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 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
BRAINARD 11 3H
 LOCATED 485 FT. FROM THE NORTH LINE
 AND 575 FT. FROM THE WEST LINE OF
 SECTION 12, TOWNSHIP 18 SOUTH,
 RANGE 26 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

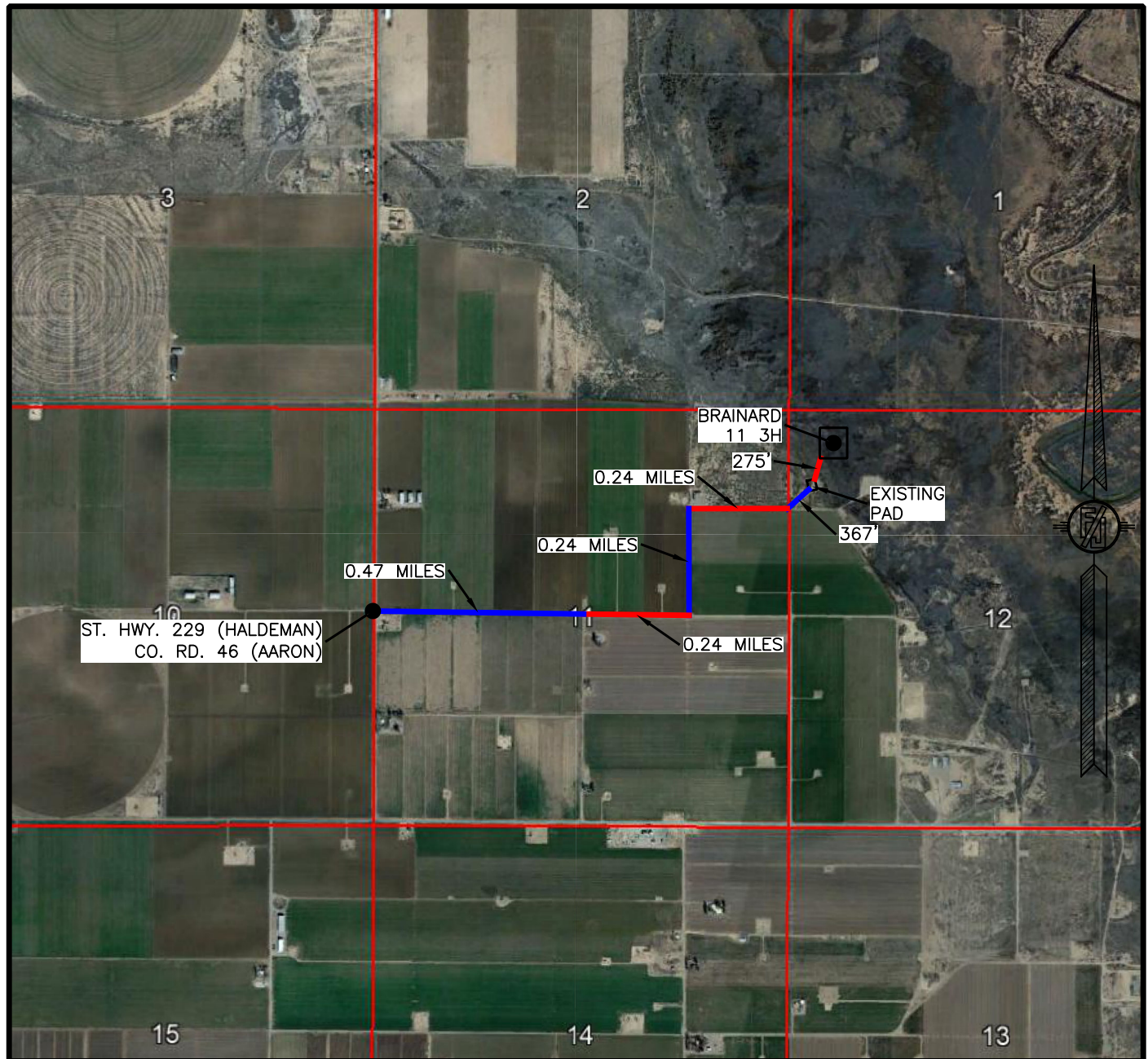
AUGUST 3, 2021

SURVEY NO. 8955

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

CARLSBAD, NEW MEXICO

SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 AERIAL ACCESS ROUTE MAP



NOT TO SCALE
 AERIAL PHOTO:
 GOOGLE EARTH
 DEC. 2019

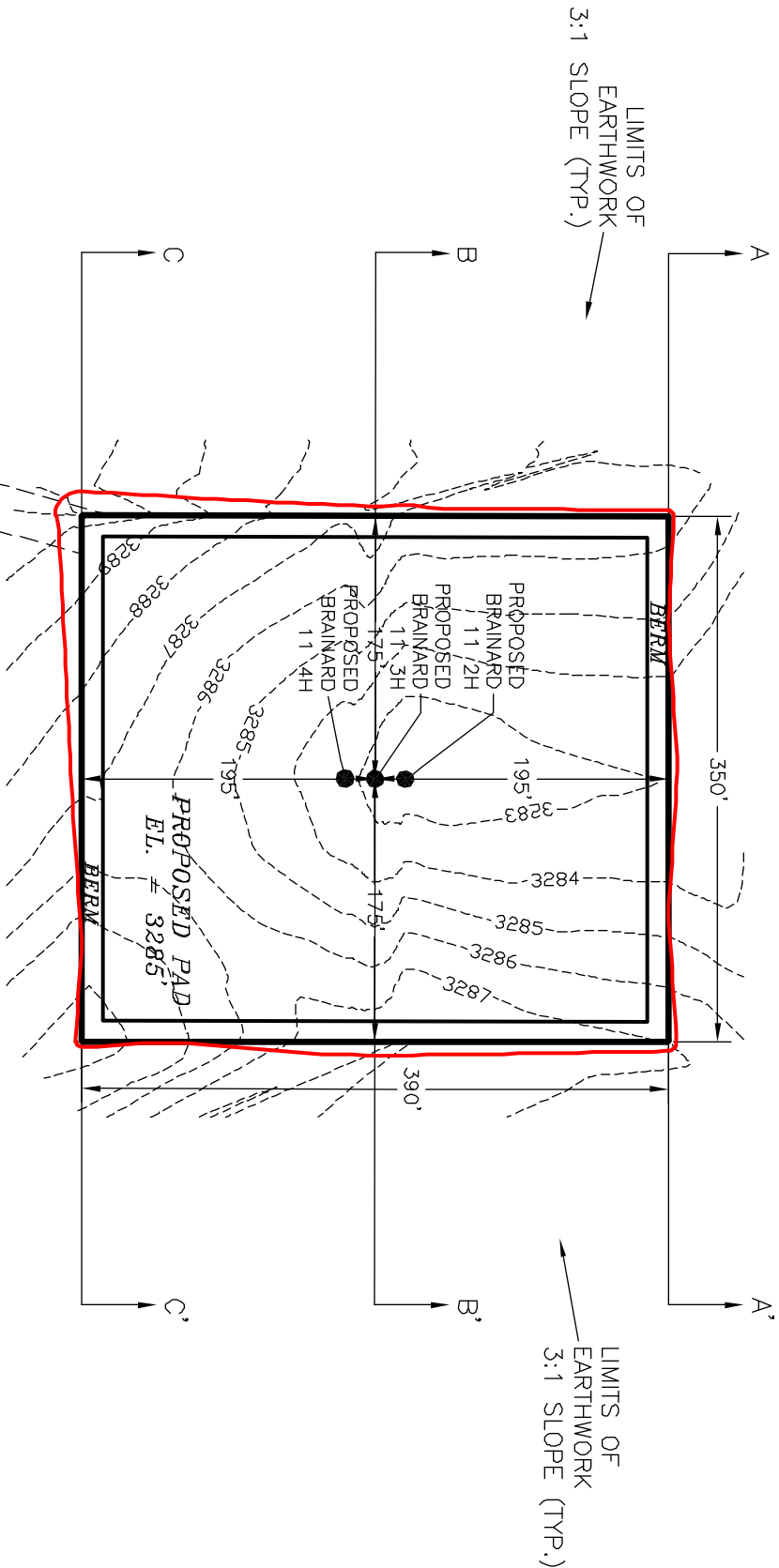
REDWOOD OPERATING, LLC
BRAINARD 11 3H
 LOCATED 485 FT. FROM THE NORTH LINE
 AND 575 FT. FROM THE WEST LINE OF
 SECTION 12, TOWNSHIP 18 SOUTH,
 RANGE 26 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

AUGUST 3, 2021

SURVEY NO. 8955

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

PLAN VIEW



I, FILMON F. JARAMILA, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT THE SURVEYED AND SHOWN ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

REDWOOD OPERATING, LLC
PAD GRADING AND CROSS SECTIONS
FOR BRAINARD 11 3H
SECTION 12, TOWNSHIP 18 SOUTH,
RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

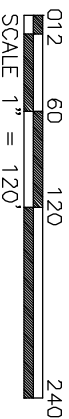
AUGUST 3, 2021

301 SOUTH CANAL
(979) 234-3341

CARLSBAD, NEW MEXICO

SURVEY NO. 8955

SHEET 1-2

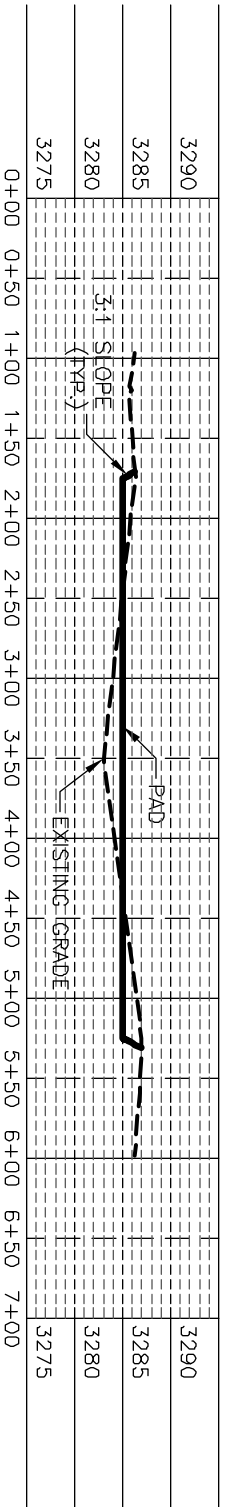


CUT	FILL	NET
4797 CU. YD	2149 CU. YD	2648 CU. YD (CUT)

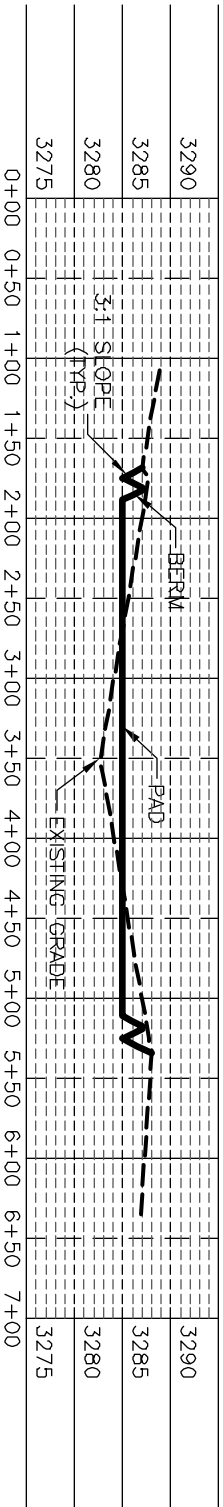
EARTHWORK QUANTITIES ARE ESTIMATED

CROSS-SECTIONS

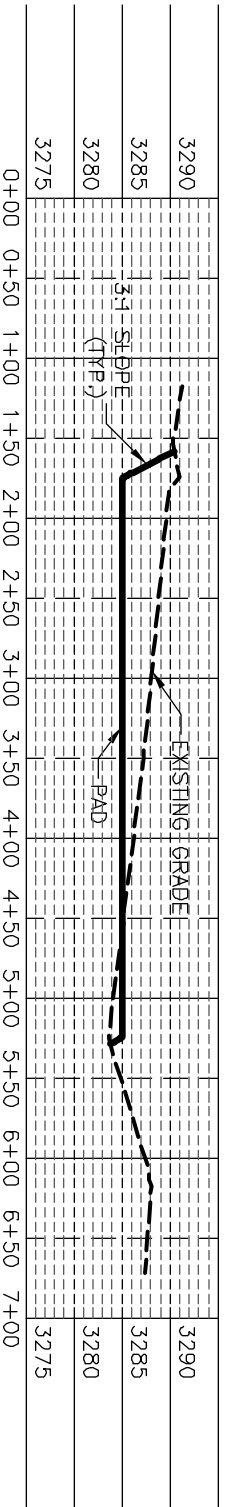
SECTION A-A'



SECTION B-B'

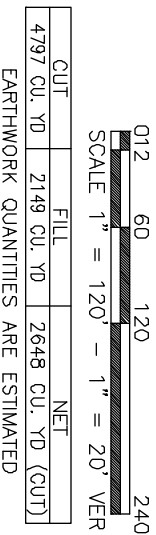


SECTION C-C'



I, FILMON F. JARAMA, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFICATE NO. 10284, AM RESPONSIBLE FOR THIS SURVEY, THAT THE SURVEYED LOTS AND CORNERS ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

REDWOOD OPERATING, LLC
PAD GRADING AND CROSS SECTIONS
FOR BRAINARD 11 3H
SECTION 12, TOWNSHIP 18 SOUTH,
RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO



AUGUST 3, 2021
301 SOUTH CANAL
CARLSBAD, NEW MEXICO

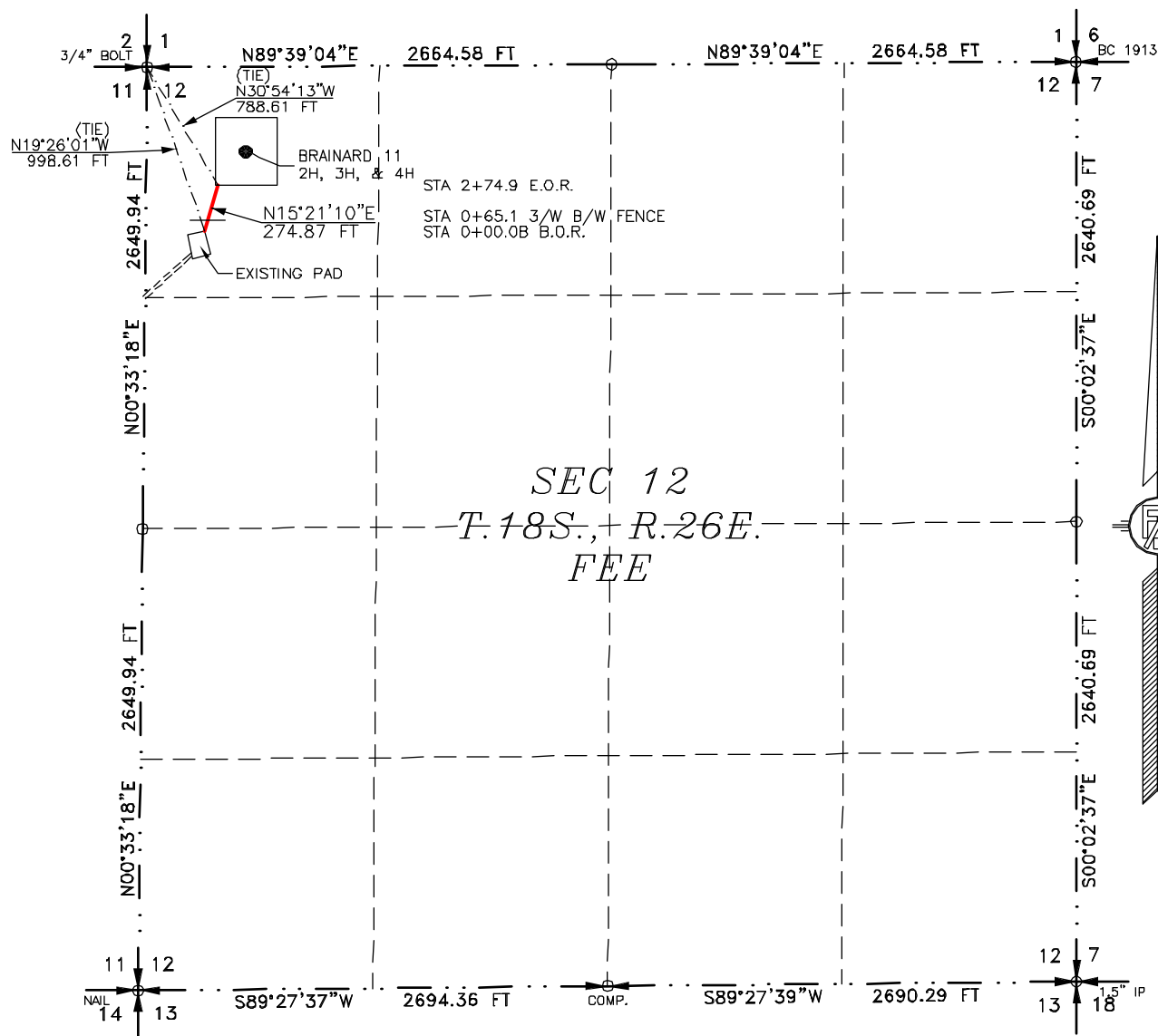
SHEET 2-2
SURVEY NO. 8955

ACCESS ROAD PLAT

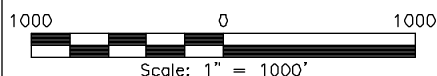
ACCESS ROAD FOR BRAINARD 11 2H, 3H, & 4H

REDWOOD OPERATING, LLC

**CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AUGUST 3, 2021**



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.

SHEET: 1-2

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

SURVEYOR CERTIFICATE

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

IN WITNESS WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 3RD DAY OF AUGUST 2021

FILMON F. JARAMILLO, PLS. 12797
MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

SURVEY NO. 8955

301 SOUTH CANAL CARLSBAD, NEW MEXICO (575) 234-3341

ACCESS ROAD PLAT

ACCESS ROAD FOR BRAINARD 11 2H, 3H, & 4H

REDWOOD OPERATING, LLC

**CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AUGUST 3, 2021**

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING FEE LAND IN SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE NW/4 NW/4 OF SAID SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M., WHENCE THE NORTHWEST CORNER OF SAID SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. BEARS N19°26'01"W, A DISTANCE OF 998.61 FEET;
THENCE N15°21'10"E A DISTANCE OF 274.87 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHWEST CORNER OF SAID SECTION 12, TOWNSHIP 18 SOUTH, RANGE 26 EAST, N.M.P.M. BEARS N30°54'13"W, A DISTANCE OF 788.61 FEET;

SAID STRIP OF LAND BEING 274.87 FEET OR 16.66 RODS IN LENGTH, CONTAINING 0.189 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 NW/4 274.87 L.F. 16.66 RODS 0.189 ACRES

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 3RD DAY OF AUGUST 2021

FILIMON F. JARAMILLO, PLS
301 SOUTH CANAL
(575) 234-3341
CARLSBAD, NEW MEXICO

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

SURVEY NO. 8955

GENERAL NOTES

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

SHEET: 2-2

MADRON SURVEYING, INC.

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

Form APD Conditions

Permit 299527

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: Redwood Operating LLC [330211] PO Box 1370 Artesia, NM 882111370	API Number: 30-015-48886
	Well: BRAINARD 11 #003H

OCD Reviewer	Condition
ksimmons	Notify OCD 24 hours prior to casing & cement
ksimmons	Will require a File As Drilled C-102 and a Directional Survey with the C-104
ksimmons	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud
kpickford	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
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing
kpickford	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

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

Submit Electronically
Via E-permitting

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Redwood Operating LLC **OGRID:** 330211 **Date:** 08 / 11 / 2021

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
Brainard 11 3H		Sec. 12 T18S R26E	485 FNL 575 FWL	100	100	1,000

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

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

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Brainard 11 3H		11/1/2021	12/1/2021	1/1/2022	1/1/2022	1/15/2022

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

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

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

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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

Signature: <i>Delilah Flores</i>
Printed Name: Delilah Flores
Title: Regulatory Technician I
E-mail Address: regulatory@redwoodoperating.com
Date: 8/12/2021
Phone: 575-748-1288
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
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. Production separation equipment is upgraded 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 isn't for a well being drilled.
3. Subsection (C) Venting and flaring during completion or recompletion. Flowlines will be routed for flowback 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 isn't 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 flowlines 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 situation, or other operations where venting or flaring may occur due to equipment failures.

Brainard 11 #3H, Plan 1

Operator	Redwood Operating LLC			Units	feet, °/100ft		14:45 Tuesday, August 10, 2021 Page 1 of 4			
Field	Red Lake			County	Eddy		Vertical Section Azimuth		270.31	
Well Name	Brainard 11 #3H			State	New Mexico		Survey Calculation Method		Minimum Curvature	
Plan	1			Country	USA		Database		Access	
Location	SL: 485 FNL & 575 FWL Sec 12-T18S-R26E BHL: 990 FNL & 1 FWL Sec 11-T18S-R26E				Map Zone	UTM		Lat Long Ref		
Site					Surface X	1842709.4		Surface Long		
Slot Name					Surface Y	11894923.4		Surface Lat		
Well Number	UWI				Surface Z	3300.7		Global Z Ref KB		
Project	MD/TVD Ref KB				Ground Level	3282.7		Local North Ref Grid		
DIRECTIONAL WELL PLAN										
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft
*** TIE (at MD = 1735.00)										
1735.00	0.00	0.0	1735.00	0.00	0.00		0.00	1842709.40	11894923.40	1565.70
1750.00	0.00	0.0	1750.00	0.00	0.00	0.00	0.00	1842709.40	11894923.40	1550.70
1800.00	0.00	0.0	1800.00	0.00	0.00	0.00	0.00	1842709.40	11894923.40	1500.70
*** KOP 9 DEGREES (at MD = 1835.00)										
1835.00	0.00	0.0	1835.00	0.00	0.00	0.00	0.00	1842709.40	11894923.40	1465.70
1850.00	1.20	227.3	1850.00	-0.11	-0.12	8.00	0.11	1842709.28	11894923.29	1450.70
1900.00	5.20	227.3	1899.91	-2.00	-2.17	8.00	2.16	1842707.23	11894921.40	1400.79
1950.00	9.20	227.3	1949.51	-6.25	-6.77	8.00	6.74	1842702.63	11894917.15	1351.19
2000.00	13.20	227.3	1998.54	-12.83	-13.91	8.00	13.84	1842695.49	11894910.57	1302.16
2050.00	17.20	227.3	2046.79	-21.72	-23.54	8.00	23.42	1842685.86	11894901.68	1253.91
2100.00	21.20	227.3	2093.99	-32.87	-35.62	8.00	35.44	1842673.78	11894890.53	1206.71
2150.00	25.20	227.3	2139.94	-46.23	-50.09	8.00	49.84	1842659.31	11894877.17	1160.76
2200.00	29.20	227.3	2184.40	-61.72	-66.89	8.00	66.55	1842642.51	11894861.68	1116.30
2250.00	33.20	227.3	2227.16	-79.28	-85.92	8.00	85.49	1842623.48	11894844.12	1073.54
2300.00	37.20	227.3	2268.01	-98.82	-107.10	8.00	106.56	1842602.30	11894824.58	1032.69
2350.00	41.20	227.3	2306.75	-120.25	-130.31	8.00	129.66	1842579.09	11894803.15	993.95
2400.00	45.20	227.3	2343.19	-143.46	-155.46	8.00	154.69	1842553.94	11894779.94	957.51
2450.00	49.20	227.3	2377.16	-168.33	-182.42	8.00	181.51	1842526.98	11894755.07	923.54
2500.00	53.20	227.3	2408.48	-194.75	-211.05	8.00	209.99	1842498.35	11894728.65	892.22
*** 55 DEGREE TANGENT (at MD = 2522.50)										
2522.50	55.00	227.3	2421.67	-207.11	-224.45	8.00	223.32	1842484.95	11894716.29	879.03
2550.00	55.00	227.3	2437.45	-222.39	-241.00	0.00	239.79	1842468.40	11894701.01	863.25
2600.00	55.00	227.3	2466.13	-250.16	-271.10	0.00	269.74	1842438.30	11894673.24	834.57
2650.00	55.00	227.3	2494.81	-277.94	-301.20	0.00	299.69	1842408.20	11894645.46	805.89
2700.00	55.00	227.3	2523.48	-305.72	-331.30	0.00	329.64	1842378.10	11894617.68	777.22
2750.00	55.00	227.3	2552.16	-333.49	-361.40	0.00	359.59	1842348.00	11894589.91	748.54
*** 10 DEGREE BUILD (at MD = 2772.50)										
2772.50	55.00	227.3	2565.07	-345.99	-374.95	0.00	373.07	1842334.45	11894577.41	735.63
2800.00	56.48	230.1	2580.55	-360.99	-392.02	10.00	390.06	1842317.38	11894562.41	720.15
2850.00	59.33	235.0	2607.13	-386.72	-425.64	10.00	423.54	1842283.76	11894536.68	693.57
2900.00	62.34	239.5	2631.50	-410.31	-462.35	10.00	460.13	1842247.05	11894513.09	669.20
2950.00	65.50	243.8	2653.48	-431.58	-501.88	10.00	499.54	1842207.52	11894491.82	647.22
3000.00	68.78	247.9	2672.91	-450.37	-543.93	10.00	541.48	1842165.47	11894473.03	627.79
3050.00	72.15	251.9	2689.64	-466.54	-588.17	10.00	585.63	1842121.23	11894456.86	611.06
3100.00	75.59	255.6	2703.53	-479.96	-634.27	10.00	631.66	1842075.13	11894443.44	597.17
3150.00	79.09	259.3	2714.49	-490.53	-681.88	10.00	679.21	1842027.52	11894432.87	586.21
3200.00	82.64	262.9	2722.43	-498.18	-730.63	10.00	727.92	1841978.77	11894425.22	578.27

Brainard 11 #3H, Plan 1

Operator	Redwood Operating LLC	Units	feet, °/100ft	14:45 Tuesday, August 10, 2021	Page 2 of 4
Field	Red Lake	County	Eddy	Vertical Section Azimuth	270.31
Well Name	Brainard 11 #3H	State	New Mexico	Survey Calculation Method	Minimum Curvature
Plan	1	Country	USA	Database	Access
Location	SL: 485 FNL & 575 FWL Sec 12-T18S-R26E BHL: 990 FNL & 1 FWL Sec 11-T18S-R26E			Map Zone	UTM
Site				Surface X	1842709.4
Slot Name				Surface Y	11894923.4
Well Number				Surface Z	3300.7
Project				Ground Level	3282.7
				Surface Long	
				Surface Lat	
				Global Z Ref	KB
				Local North Ref	Grid

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft
3250.00	86.21	266.4	2727.29	-502.83	-780.16	10.00	777.43	1841929.24	11894420.57	573.41
3300.00	89.80	269.9	2729.03	-504.46	-830.09	10.00	827.34	1841879.31	11894418.94	571.67
*** LANDING POINT (at MD = 3306.32)										
3306.32	90.25	270.3	2729.03	-504.45	-836.40	10.00	833.66	1841873.00	11894418.95	571.67
3350.00	90.25	270.3	2728.84	-504.21	-880.09	0.00	877.34	1841829.31	11894419.19	571.86
3400.00	90.25	270.3	2728.62	-503.94	-930.08	0.00	927.34	1841779.32	11894419.46	572.08
3450.00	90.25	270.3	2728.40	-503.67	-980.08	0.00	977.34	1841729.32	11894419.73	572.30
3500.00	90.25	270.3	2728.19	-503.40	-1030.08	0.00	1027.34	1841679.32	11894420.00	572.51
3550.00	90.25	270.3	2727.97	-503.13	-1080.08	0.00	1077.34	1841629.32	11894420.27	572.73
3600.00	90.25	270.3	2727.75	-502.86	-1130.08	0.00	1127.34	1841579.32	11894420.54	572.95
3650.00	90.25	270.3	2727.53	-502.59	-1180.08	0.00	1177.34	1841529.32	11894420.81	573.17
3700.00	90.25	270.3	2727.31	-502.32	-1230.08	0.00	1227.34	1841479.32	11894421.08	573.39
3750.00	90.25	270.3	2727.10	-502.05	-1280.08	0.00	1277.34	1841429.32	11894421.35	573.60
3800.00	90.25	270.3	2726.88	-501.78	-1330.07	0.00	1327.34	1841379.33	11894421.62	573.82
3850.00	90.25	270.3	2726.66	-501.51	-1380.07	0.00	1377.34	1841329.33	11894421.89	574.04
3900.00	90.25	270.3	2726.44	-501.24	-1430.07	0.00	1427.34	1841279.33	11894422.16	574.26
3950.00	90.25	270.3	2726.22	-500.97	-1480.07	0.00	1477.34	1841229.33	11894422.43	574.48
4000.00	90.25	270.3	2726.00	-500.70	-1530.07	0.00	1527.34	1841179.33	11894422.70	574.70
4050.00	90.25	270.3	2725.79	-500.43	-1580.07	0.00	1577.34	1841129.33	11894422.97	574.91
4100.00	90.25	270.3	2725.57	-500.16	-1630.07	0.00	1627.34	1841079.33	11894423.24	575.13
4150.00	90.25	270.3	2725.35	-499.89	-1680.07	0.00	1677.34	1841029.33	11894423.51	575.35
4200.00	90.25	270.3	2725.13	-499.61	-1730.06	0.00	1727.34	1840979.34	11894423.79	575.57
4250.00	90.25	270.3	2724.91	-499.34	-1780.06	0.00	1777.34	1840929.34	11894424.06	575.79
4300.00	90.25	270.3	2724.70	-499.07	-1830.06	0.00	1827.34	1840879.34	11894424.33	576.00
4350.00	90.25	270.3	2724.48	-498.80	-1880.06	0.00	1877.33	1840829.34	11894424.60	576.22
4400.00	90.25	270.3	2724.26	-498.53	-1930.06	0.00	1927.33	1840779.34	11894424.87	576.44
4450.00	90.25	270.3	2724.04	-498.26	-1980.06	0.00	1977.33	1840729.34	11894425.14	576.66
4500.00	90.25	270.3	2723.82	-497.99	-2030.06	0.00	2027.33	1840679.34	11894425.41	576.88
4550.00	90.25	270.3	2723.60	-497.72	-2080.06	0.00	2077.33	1840629.34	11894425.68	577.10
4600.00	90.25	270.3	2723.39	-497.45	-2130.05	0.00	2127.33	1840579.35	11894425.95	577.31
4650.00	90.25	270.3	2723.17	-497.18	-2180.05	0.00	2177.33	1840529.35	11894426.22	577.53
4700.00	90.25	270.3	2722.95	-496.91	-2230.05	0.00	2227.33	1840479.35	11894426.49	577.75
4750.00	90.25	270.3	2722.73	-496.64	-2280.05	0.00	2277.33	1840429.35	11894426.76	577.97
4800.00	90.25	270.3	2722.51	-496.37	-2330.05	0.00	2327.33	1840379.35	11894427.03	578.19
4850.00	90.25	270.3	2722.30	-496.10	-2380.05	0.00	2377.33	1840329.35	11894427.30	578.40
4900.00	90.25	270.3	2722.08	-495.83	-2430.05	0.00	2427.33	1840279.35	11894427.57	578.62
4950.00	90.25	270.3	2721.86	-495.56	-2480.05	0.00	2477.33	1840229.35	11894427.84	578.84

Brainard 11 #3H, Plan 1

Operator	Redwood Operating LLC	Units	feet, °/100ft	14:45 Tuesday, August 10, 2021	Page 3 of 4
Field	Red Lake	County	Eddy	Vertical Section Azimuth	270.31
Well Name	Brainard 11 #3H	State	New Mexico	Survey Calculation Method	Minimum Curvature
Plan	1	Country	USA	Database	Access
Location	SL: 485 FNL & 575 FWL Sec 12-T18S-R26E BHL: 990 FNL & 1 FWL Sec 11-T18S-R26E			Map Zone	UTM
Site				Surface X	1842709.4
Slot Name				Surface Y	11894923.4
Well Number				Surface Z	3300.7
Project				Ground Level	3282.7
				Surface Long	
				Surface Lat	
				Global Z Ref	KB
				Local North Ref	Grid

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft
5000.00	90.25	270.3	2721.64	-495.29	-2530.05	0.00	2527.33	1840179.35	11894428.11	579.06
5050.00	90.25	270.3	2721.42	-495.02	-2580.04	0.00	2577.33	1840129.36	11894428.38	579.28
5100.00	90.25	270.3	2721.21	-494.75	-2630.04	0.00	2627.33	1840079.36	11894428.65	579.49
5150.00	90.25	270.3	2720.99	-494.48	-2680.04	0.00	2677.33	1840029.36	11894428.93	579.71
5200.00	90.25	270.3	2720.77	-494.20	-2730.04	0.00	2727.33	1839979.36	11894429.20	579.93
5250.00	90.25	270.3	2720.55	-493.93	-2780.04	0.00	2777.33	1839929.36	11894429.47	580.15
5300.00	90.25	270.3	2720.33	-493.66	-2830.04	0.00	2827.33	1839879.36	11894429.74	580.37
5350.00	90.25	270.3	2720.11	-493.39	-2880.04	0.00	2877.33	1839829.36	11894430.01	580.59
5400.00	90.25	270.3	2719.90	-493.12	-2930.04	0.00	2927.32	1839779.36	11894430.28	580.80
5450.00	90.25	270.3	2719.68	-492.85	-2980.03	0.00	2977.32	1839729.37	11894430.55	581.02
5500.00	90.25	270.3	2719.46	-492.58	-3030.03	0.00	3027.32	1839679.37	11894430.82	581.24
5550.00	90.25	270.3	2719.24	-492.31	-3080.03	0.00	3077.32	1839629.37	11894431.09	581.46
5600.00	90.25	270.3	2719.02	-492.04	-3130.03	0.00	3127.32	1839579.37	11894431.36	581.68
5650.00	90.25	270.3	2718.81	-491.77	-3180.03	0.00	3177.32	1839529.37	11894431.63	581.89
5700.00	90.25	270.3	2718.59	-491.50	-3230.03	0.00	3227.32	1839479.37	11894431.90	582.11
5750.00	90.25	270.3	2718.37	-491.23	-3280.03	0.00	3277.32	1839429.37	11894432.17	582.33
5800.00	90.25	270.3	2718.15	-490.96	-3330.03	0.00	3327.32	1839379.37	11894432.44	582.55
5850.00	90.25	270.3	2717.93	-490.69	-3380.02	0.00	3377.32	1839329.38	11894432.71	582.77
5900.00	90.25	270.3	2717.71	-490.42	-3430.02	0.00	3427.32	1839279.38	11894432.98	582.99
5950.00	90.25	270.3	2717.50	-490.15	-3480.02	0.00	3477.32	1839229.38	11894433.25	583.20
6000.00	90.25	270.3	2717.28	-489.88	-3530.02	0.00	3527.32	1839179.38	11894433.52	583.42
6050.00	90.25	270.3	2717.06	-489.61	-3580.02	0.00	3577.32	1839129.38	11894433.79	583.64
6100.00	90.25	270.3	2716.84	-489.34	-3630.02	0.00	3627.32	1839079.38	11894434.06	583.86
6150.00	90.25	270.3	2716.62	-489.06	-3680.02	0.00	3677.32	1839029.38	11894434.34	584.08
6200.00	90.25	270.3	2716.41	-488.79	-3730.02	0.00	3727.32	1838979.38	11894434.61	584.29
6250.00	90.25	270.3	2716.19	-488.52	-3780.02	0.00	3777.32	1838929.38	11894434.88	584.51
6300.00	90.25	270.3	2715.97	-488.25	-3830.01	0.00	3827.32	1838879.39	11894435.15	584.73
6350.00	90.25	270.3	2715.75	-487.98	-3880.01	0.00	3877.32	1838829.39	11894435.42	584.95
6400.00	90.25	270.3	2715.53	-487.71	-3930.01	0.00	3927.32	1838779.39	11894435.69	585.17
6450.00	90.25	270.3	2715.31	-487.44	-3980.01	0.00	3977.31	1838729.39	11894435.96	585.39
6500.00	90.25	270.3	2715.10	-487.17	-4030.01	0.00	4027.31	1838679.39	11894436.23	585.60
6550.00	90.25	270.3	2714.88	-486.90	-4080.01	0.00	4077.31	1838629.39	11894436.50	585.82
6600.00	90.25	270.3	2714.66	-486.63	-4130.01	0.00	4127.31	1838579.39	11894436.77	586.04
6650.00	90.25	270.3	2714.44	-486.36	-4180.01	0.00	4177.31	1838529.39	11894437.04	586.26
6700.00	90.25	270.3	2714.22	-486.09	-4230.00	0.00	4227.31	1838479.40	11894437.31	586.48
6750.00	90.25	270.3	2714.01	-485.82	-4280.00	0.00	4277.31	1838429.40	11894437.58	586.69
6800.00	90.25	270.3	2713.79	-485.55	-4330.00	0.00	4327.31	1838379.40	11894437.85	586.91

Brainard 11 #3H, Plan 1

Operator	Redwood Operating LLC	Units	feet, °/100ft	14:45 Tuesday, August 10, 2021	Page 4 of 4
Field	Red Lake	County	Eddy	Vertical Section Azimuth	270.31
Well Name	Brainard 11 #3H	State	New Mexico	Survey Calculation Method	Minimum Curvature
Plan	1	Country	USA	Database	Access
Location	SL: 485 FNL & 575 FWL Sec 12-T18S-R26E BHL: 990		Map Zone	UTM	
	FNL & 1 FWL Sec 11-T18S-R26E			Lat Long Ref	
Site			Surface X	1842709.4	
Slot Name			Surface Y	11894923.4	
Well Number			Surface Z	3300.7	
Project			Ground Level	3282.7	
	UWI			Surface Long	
	API			Surface Lat	
	MD/TVD Ref	KB		Global Z Ref	KB
				Local North Ref	Grid

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft
6850.00	90.25	270.3	2713.57	-485.28	-4380.00	0.00	4377.31	1838329.40	11894438.12	587.13
6900.00	90.25	270.3	2713.35	-485.01	-4430.00	0.00	4427.31	1838279.40	11894438.39	587.35
6950.00	90.25	270.3	2713.13	-484.74	-4480.00	0.00	4477.31	1838229.40	11894438.66	587.57
7000.00	90.25	270.3	2712.91	-484.47	-4530.00	0.00	4527.31	1838179.40	11894438.93	587.79
7050.00	90.25	270.3	2712.70	-484.20	-4580.00	0.00	4577.31	1838129.40	11894439.20	588.00
7100.00	90.25	270.3	2712.48	-483.92	-4629.99	0.00	4627.31	1838079.41	11894439.48	588.22
7150.00	90.25	270.3	2712.26	-483.65	-4679.99	0.00	4677.31	1838029.41	11894439.75	588.44
7200.00	90.25	270.3	2712.04	-483.38	-4729.99	0.00	4727.31	1837979.41	11894440.02	588.66
7250.00	90.25	270.3	2711.82	-483.11	-4779.99	0.00	4777.31	1837929.41	11894440.29	588.88
7300.00	90.25	270.3	2711.61	-482.84	-4829.99	0.00	4827.31	1837879.41	11894440.56	589.09
7350.00	90.25	270.3	2711.39	-482.57	-4879.99	0.00	4877.31	1837829.41	11894440.83	589.31
7400.00	90.25	270.3	2711.17	-482.30	-4929.99	0.00	4927.31	1837779.41	11894441.10	589.53
7450.00	90.25	270.3	2710.95	-482.03	-4979.99	0.00	4977.31	1837729.41	11894441.37	589.75
7500.00	90.25	270.3	2710.73	-481.76	-5029.98	0.00	5027.30	1837679.42	11894441.64	589.97
7550.00	90.25	270.3	2710.52	-481.49	-5079.98	0.00	5077.30	1837629.42	11894441.91	590.19
7600.00	90.25	270.3	2710.30	-481.22	-5129.98	0.00	5127.30	1837579.42	11894442.18	590.40
7650.00	90.25	270.3	2710.08	-480.95	-5179.98	0.00	5177.30	1837529.42	11894442.45	590.62
7700.00	90.25	270.3	2709.86	-480.68	-5229.98	0.00	5227.30	1837479.42	11894442.72	590.84
7750.00	90.25	270.3	2709.64	-480.41	-5279.98	0.00	5277.30	1837429.42	11894442.99	591.06
7800.00	90.25	270.3	2709.42	-480.14	-5329.98	0.00	5327.30	1837379.42	11894443.26	591.28
7850.00	90.25	270.3	2709.21	-479.87	-5379.98	0.00	5377.30	1837329.42	11894443.53	591.49
7900.00	90.25	270.3	2708.99	-479.60	-5429.98	0.00	5427.30	1837279.42	11894443.80	591.71
7950.00	90.25	270.3	2708.77	-479.33	-5479.97	0.00	5477.30	1837229.43	11894444.07	591.93
8000.00	90.25	270.3	2708.55	-479.06	-5529.97	0.00	5527.30	1837179.43	11894444.34	592.15
8050.00	90.25	270.3	2708.33	-478.78	-5579.97	0.00	5577.30	1837129.43	11894444.62	592.37
8100.00	90.25	270.3	2708.12	-478.51	-5629.97	0.00	5627.30	1837079.43	11894444.89	592.58
8150.00	90.25	270.3	2707.90	-478.24	-5679.97	0.00	5677.30	1837029.43	11894445.16	592.80
8200.00	90.25	270.3	2707.68	-477.97	-5729.97	0.00	5727.30	1836979.43	11894445.43	593.02
8250.00	90.25	270.3	2707.46	-477.70	-5779.97	0.00	5777.30	1836929.43	11894445.70	593.24
8300.00	90.25	270.3	2707.24	-477.43	-5829.97	0.00	5827.30	1836879.43	11894445.97	593.46
*** TD (at MD = 8343.32)										
8343.32	90.25	270.3	2707.05	-477.20	-5873.28	0.00	5870.61	1836836.12	11894446.20	593.65