

Submit a Copy To Appropriate District Office
 District I – (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II – (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III – (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV – (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO. 30-015-46435
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name LONE TREE DRAW 14-13 STATE COM
8. Well Number 623H
9. OGRID Number 6137
ALACRAN HILLS; WOLFCAMP GAS

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	
2. Name of Operator Devon Energy Production Company, L.P.	
3. Address of Operator 333 W. Sheridan Ave Oklahoma City, OK 73102	
4. Well Location Unit Letter <u>L</u> , <u>2070</u> feet from the <u>SOUTH</u> line and <u>280</u> feet from the <u>WEST</u> line Section <u>14</u> Township <u>21S</u> Range <u>27E</u> NMPM County <u>EDDY</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3244	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☐
DOWNHOLE COMMINGLE ☐	P AND A ☐
CLOSED-LOOP SYSTEM ☐	CASING/CEMENT JOB ☐
OTHER: SHL CHANGE ☒	OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Devon Energy Production Co., L.P. (Devon) respectfully requests to move the SHL on the subject well. Please see attached revised C102 with updated pool code, drill plan with update to casing program, & directional plan.

From currently permitted: 2070 FSL, 280 FWL SEC 14-21S-27E

To proposed: 1960 FSL, 280 FWL, SEC 14-21S-27E

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Chelsey Green TITLE Regulatory Professional DATE 12/14/2020

Type or print name Chelsey Green E-mail address: chelsey.green@dvn.com PHONE: 405-228-8595

For State Use Only

APPROVED BY: John Garcia TITLE Petroleum Specialist - A DATE 1/19/2021

Conditions of Approval (if any):

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

¹ API Number 30-015-46435	² Pool Code 70070	³ Pool Name ALACRAN HILLS; WOLFCAMP GAS
⁴ Property Code 323153	⁵ Property Name LONE TREE DRAW 14-13 STATE COM	⁶ Well Number 623H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3243.3

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
L	14	21 S	27 E		1960	SOUTH	280	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
I	13	21 S	27 E		2200	SOUTH	330	EAST	EDDY

¹² Dedicated Acres 640	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.

17 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. <i>Chelsey Green</i> 01/11/2021 Signature Date Chelsey Green Printed Name chelsey.green@dm.com E-mail Address			
18 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. JANUARY 7, 2021 Date of Survey <i>[Signature]</i> Signature and Seal of Professional Surveyor: ALAN F. JARAMILLO, LS 12797 Certificate Number: 12797 Surveyor No. 7257C			

Intent ☒ As Drilled ☐

API # 30-015-46435		
Operator Name: DEVON ENERGY PRODUCTION COMPANY, L.P.	Property Name: LONE TREE DRAW 14-13 STATE COM	Well Number 623H

Kick Off Point (KOP)

UL	Section 14	Township 21S	Range 27E	Lot	Feet 2317	From N/S FSL	Feet 274	From E/W FWL	County EDDY
Latitude 32.4792					Longitude -104.1683			NAD 83	

First Take Point (FTP)

UL L	Section 14	Township 21S	Range 27E	Lot	Feet 2200	From N/S SOUTH	Feet 330	From E/W WEST	County EDDY
Latitude 32.4789373					Longitude 104.1680219			NAD 83	

Last Take Point (LTP)

UL I	Section 13	Township 21S	Range 27E	Lot	Feet 2200	From N/S SOUTH	Feet 330	From E/W EAST	County EDDY
Latitude 32.4791981					Longitude 104.1354944			NAD 83	

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

☒ YES

Is this well an infill well?

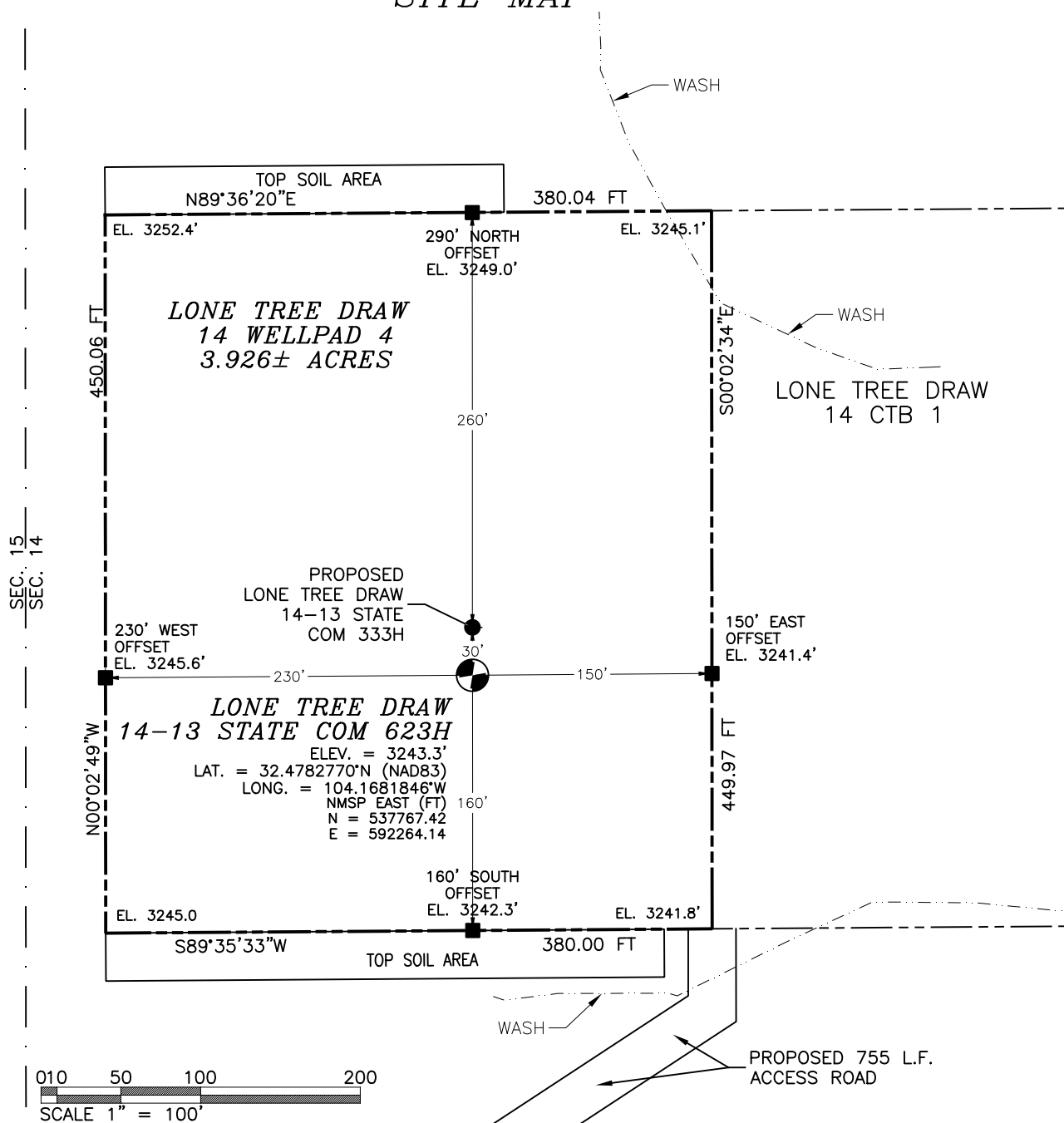
☐ NO

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 14, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
SITE MAP



DIRECTIONS TO LOCATION

FROM CR. 206 (ILLINOIS CAMP) AND CR. 600 (RAINS) GO EAST ON CR. 600 2.2 MILES, BEND LEFT AND GO NORTHEAST 0.1 MILES, TURN RIGHT AND GO SOUTHEAST 0.52 MILES, BEND LEFT AND GO EAST 0.9 MILES, TURN RIGHT AND GO SOUTH 0.5 MILES, TURN RIGHT AND GO SOUTHWEST 0.8 MILES, TURN LEFT AND GO SOUTHEAST 0.31 MILES TO ROAD SURVEY AND FOLLOW FLAGS NORTHEAST 702' THEN NORTH 50' TO THE SOUTHEAST CORNER FOR THIS LOCATION.

I, FILIMON F. JARAMILLO, A NEW MEXICO LICENSED 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 THAT I AM NOT PROVIDING ANY MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

FILIMON F. JARAMILLO, LICENSE NO. 7081

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

CARLSBAD, NEW MEXICO

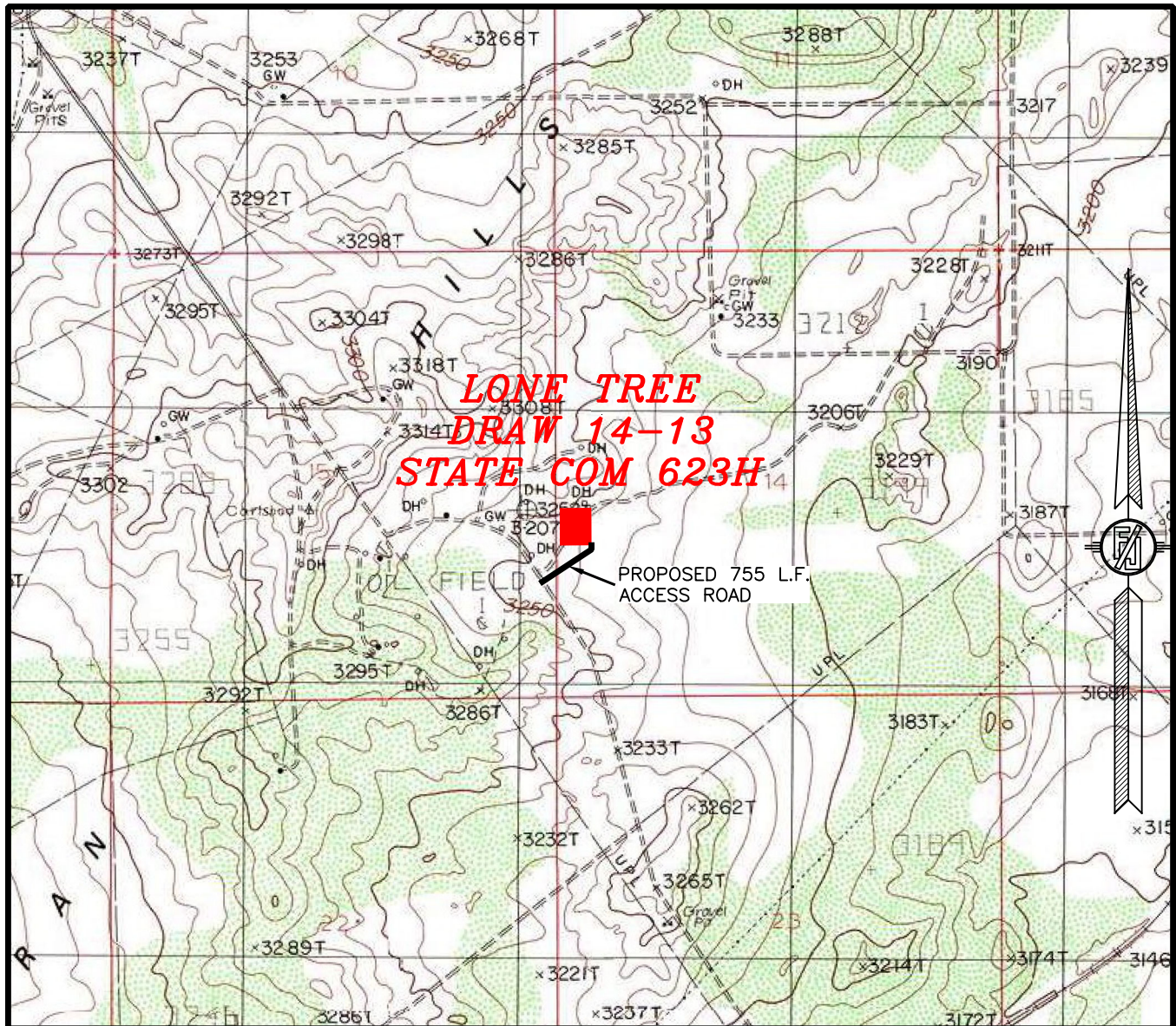
DEVON ENERGY PRODUCTION COMPANY, L.P.
LONE TREE DRAW 14-13 STATE COM 623H
LOCATED 1960 FT. FROM THE SOUTH LINE
AND 280 FT. FROM THE WEST LINE OF
SECTION 14, TOWNSHIP 21 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

JANUARY 7, 2021

SURVEY NO. 7257C

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

SECTION 14, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 LOCATION VERIFICATION MAP



USGS QUAD MAP:
 CARLSBAD EAST

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.
LONE TREE DRAW 14-13 STATE COM 623H
 LOCATED 1960 FT. FROM THE SOUTH LINE
 AND 280 FT. FROM THE WEST LINE OF
 SECTION 14, TOWNSHIP 21 SOUTH,
 RANGE 27 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

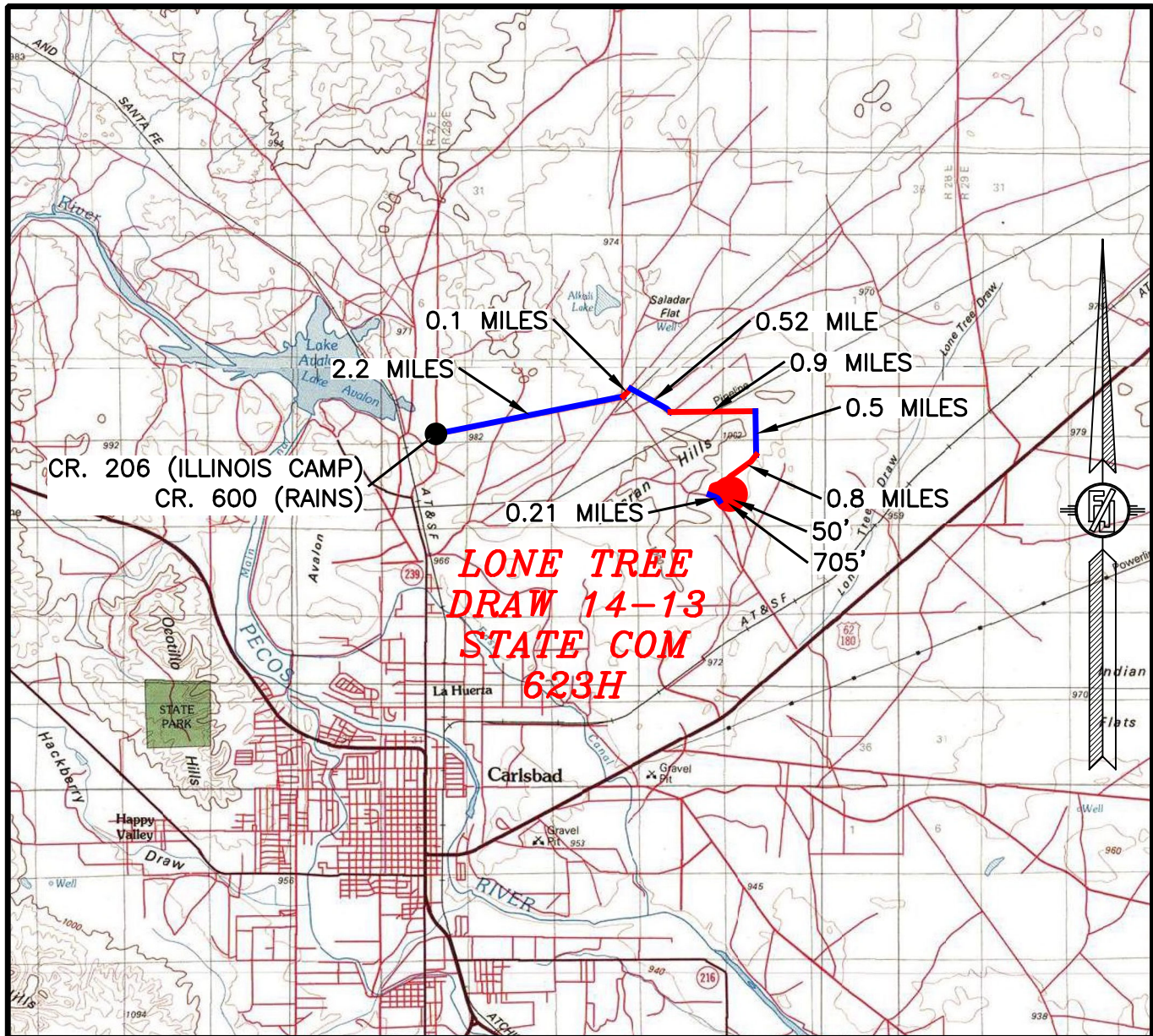
JANUARY 7, 2021

MADRON SURVEYING, INC.

301 SOUTH CANAL
 (575) 234-3341

SURVEY NO. 7257C
 CARLSBAD, NEW MEXICO

SECTION 14, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION

FROM CR. 206 (ILLINOIS CAMP) AND CR. 600 (RAINS)
 GO EAST ON CR. 600 2.2 MILES, BEND LEFT AND GO
 NORTHEAST 0.1 MILES, TURN RIGHT AND GO SOUTHEAST
 0.52 MILES, BEND LEFT AND GO EAST 0.9 MILES, TURN
 RIGHT AND GO SOUTH 0.5 MILES, TURN RIGHT AND GO
 SOUTHWEST 0.8 MILES, TURN LEFT AND GO SOUTHEAST
 0.21 MILES TO ROAD SURVEY AND FOLLOW FLAGS
 NORTHEAST 705' THEN NORTH 50' TO THE SOUTHEAST
 PAD CORNER FOR THIS LOCATION.

DEVON ENERGY PRODUCTION COMPANY, L.P.
LONE TREE DRAW 14-13 STATE COM 623H

LOCATED 1960 FT. FROM THE SOUTH LINE
 AND 280 FT. FROM THE WEST LINE OF
 SECTION 14, TOWNSHIP 21 SOUTH,
 RANGE 27 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

JANUARY 7, 2021

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341SURVEY NO. 7257C
CARLSBAD, NEW MEXICO

SECTION 14, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 AERIAL PHOTO



NOT TO SCALE
 AERIAL PHOTO:
 GOOGLE EARTH
 MAR. 2019

DEVON ENERGY PRODUCTION COMPANY, L.P.
LONE TREE DRAW 14-13 STATE COM 623H
 LOCATED 1960 FT. FROM THE SOUTH LINE
 AND 280 FT. FROM THE WEST LINE OF
 SECTION 14, TOWNSHIP 21 SOUTH,
 RANGE 27 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

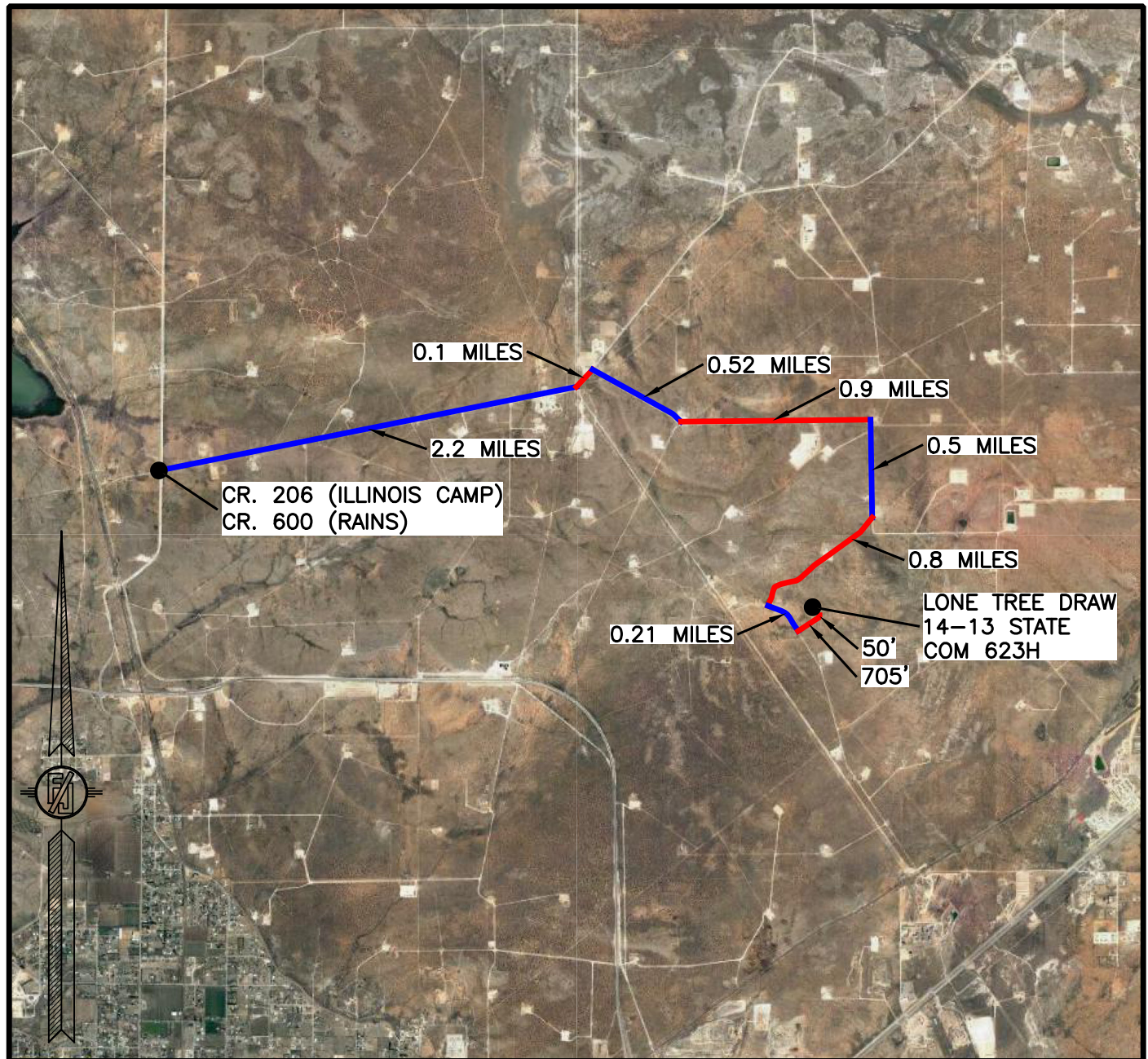
JANUARY 7, 2021

MADRON SURVEYING, INC.

301 SOUTH CANAL
 (575) 234-3341

SURVEY NO. 7257C
 CARLSBAD, NEW MEXICO

SECTION 14, TOWNSHIP 21 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
 MAR. 2019

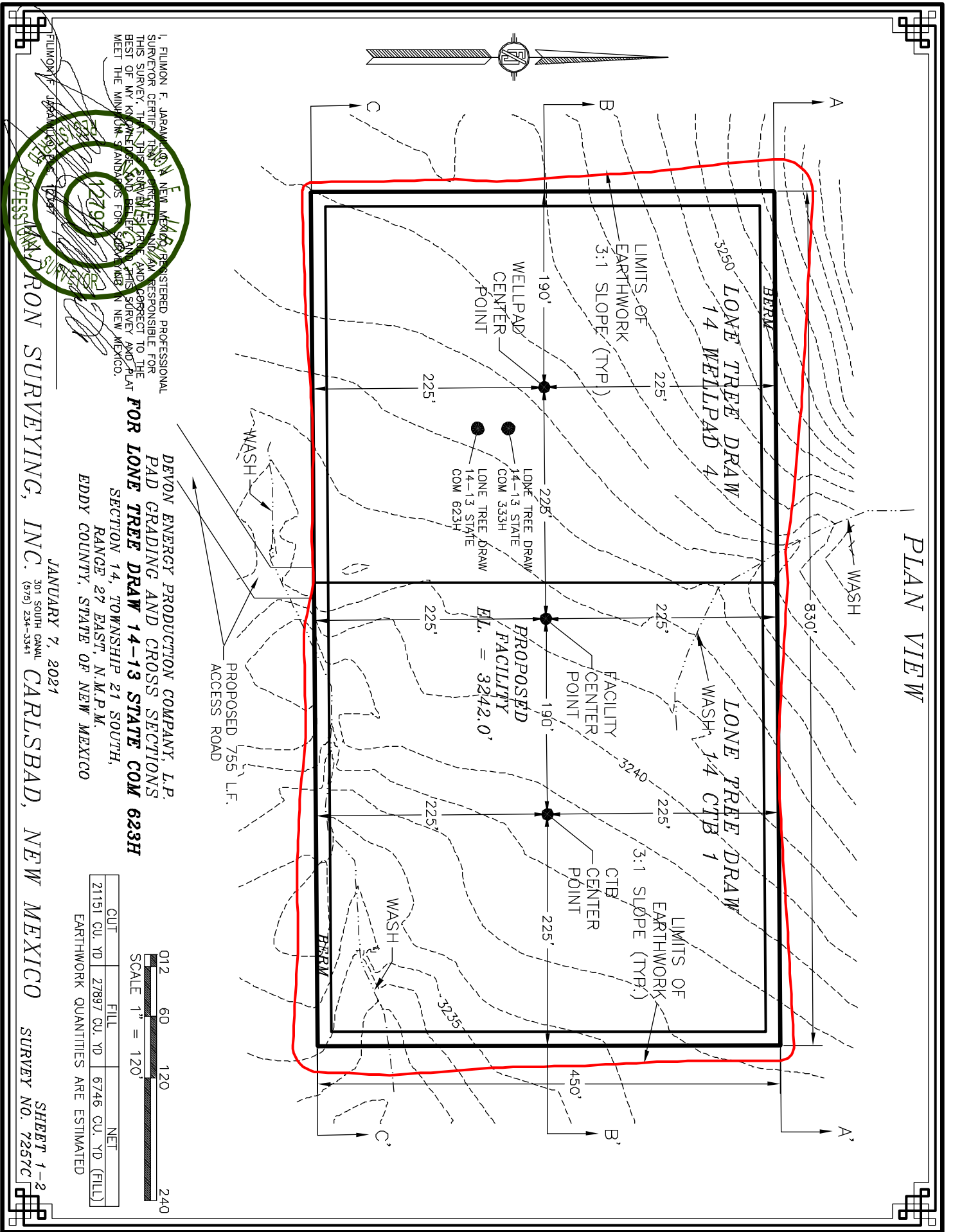
DEVON ENERGY PRODUCTION COMPANY, L.P.
 LONE TREE DRAW 14-13 STATE COM 623H
 LOCATED 1960 FT. FROM THE SOUTH LINE
 AND 280 FT. FROM THE WEST LINE OF
 SECTION 14, TOWNSHIP 21 SOUTH,
 RANGE 27 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

JANUARY 7, 2021

MADRON SURVEYING, INC.

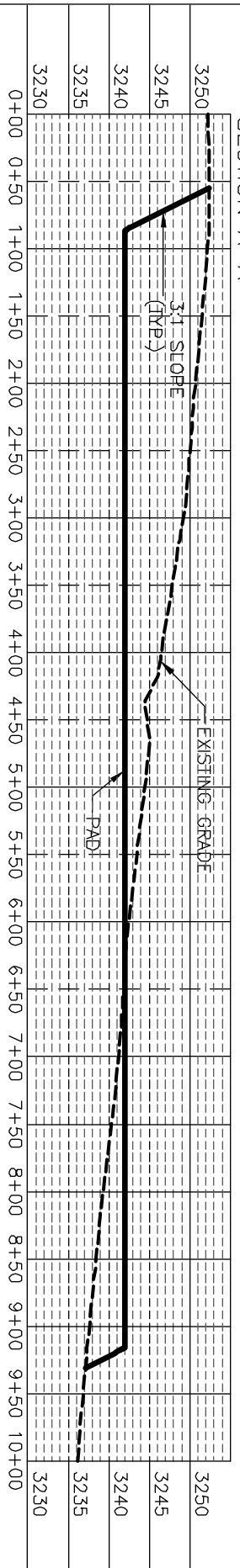
301 SOUTH CANAL
 (575) 234-3341

SURVEY NO. 7257C
 CARLSBAD, NEW MEXICO

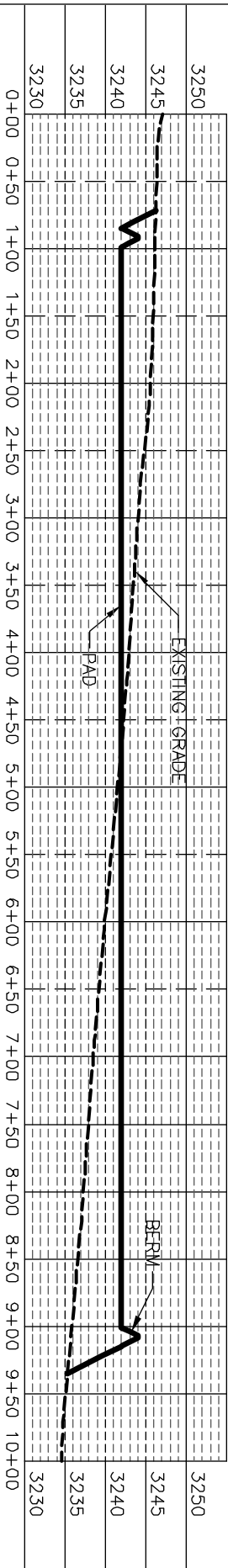


CROSS-SECTIONS

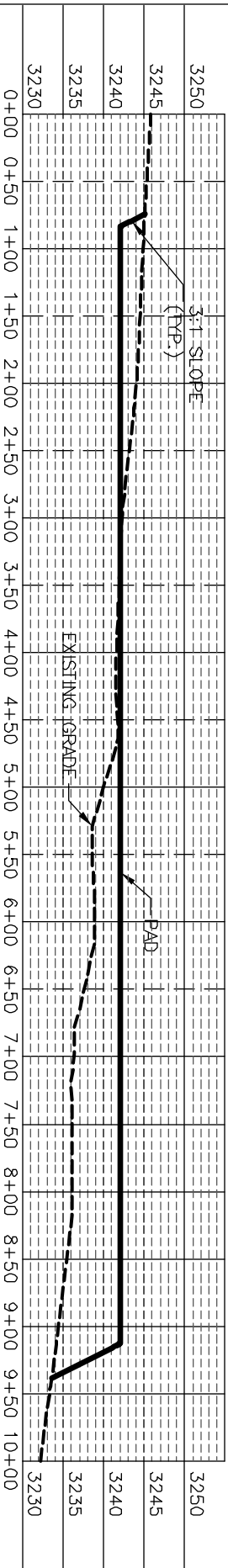
SECTION A-A'



SECTION B-B'



SECTION C-C'



I, FILMON F. JARAMILLO, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFICATE NO. 10284, AM RESPONSIBLE FOR THIS SURVEY. THE SURVEY IS MADE IN ACCORDANCE WITH THE BEST OF MY KNOWLEDGE AND BELIEFS, AND THIS SURVEY AND PLAN MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

DEVON ENERGY PRODUCTION COMPANY, L.P.
PAD GRADING AND CROSS SECTIONS
FOR LONE TREE DRAW 14-13 STATE COM 623H
SECTION 14, TOWNSHIP 21 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

CUT	FILL	NET
21151 CU. YD	27897 CU. YD	6746 CU. YD (FILL)

EARTHWORK QUANTITIES ARE ESTIMATED

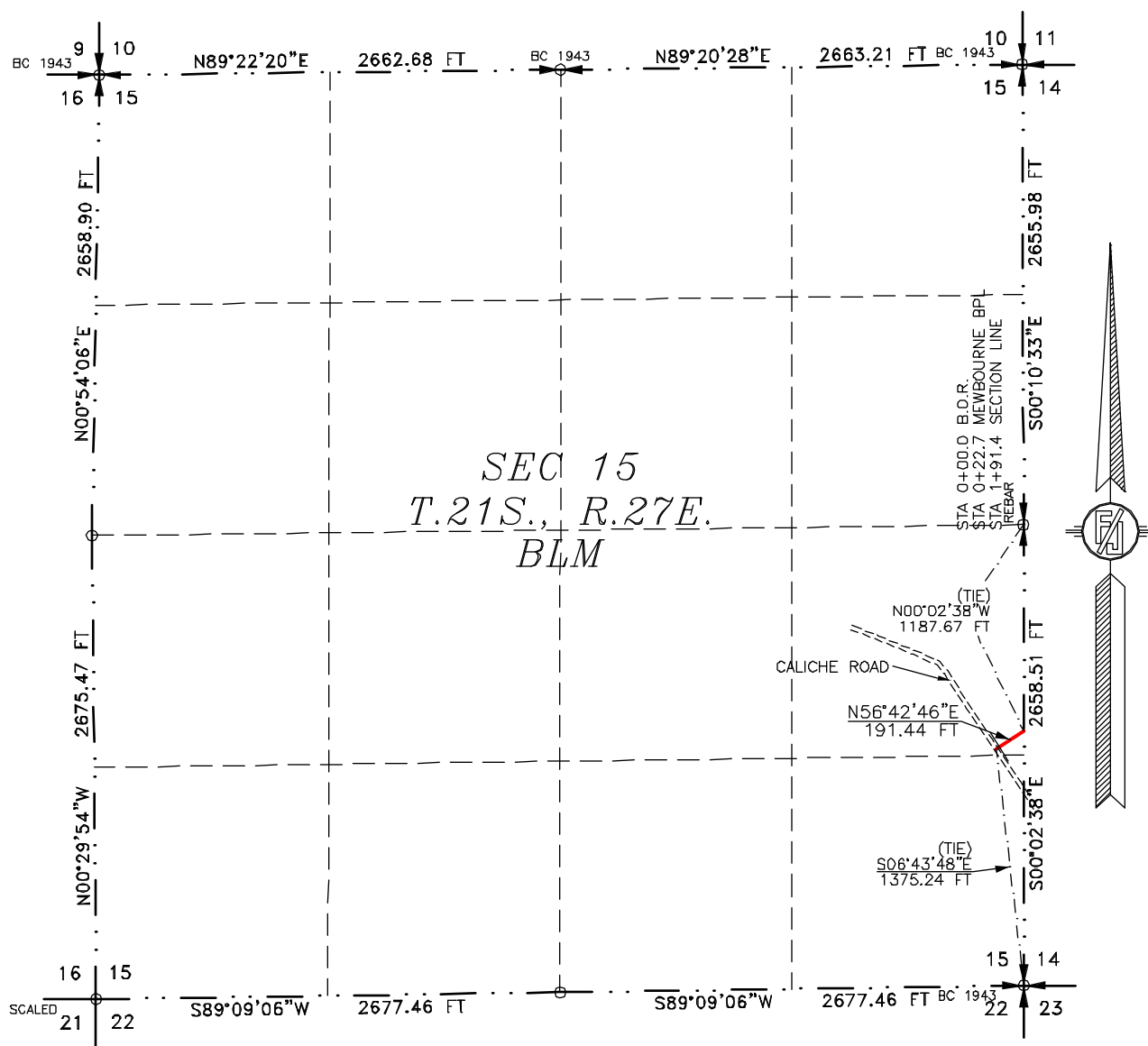
012 60 120 240
SCALE 1" = 120' - 1" = 20' VER

JANUARY 7, 2021
301 SOUTH CANAL CARLSBAD, NEW MEXICO
SURVEY NO. 7257C
SHEET 2-2

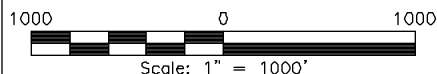
ACCESS ROAD PLAT (AA000221611)

ACCESS ROAD FOR LONE TREE DRAW 14 CTB 1 & WELLPAD 4
(LONE TREE DRAW 14-13 STATE COM 333H & 623H)

DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 15, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
JANUARY 7, 2021



SEE NEXT SHEET (2-4) FOR DESCRIPTION

**GENERAL NOTES**

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

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

SHEET: 1-4

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

SURVEYOR CERTIFICATE

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

IN WITNESS WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 7th DAY OF JANUARY 2021.

FILMON F. JARAMILLO, PLS
12797
NEW MEXICO PROFESSIONAL SURVEYOR

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

SURVEY NO. 7257C

ACCESS ROAD PLAT (AA000221611)

ACCESS ROAD FOR LONE TREE DRAW 14 CTB 1 & WELLPAD 4
(LONE TREE DRAW 14-13 STATE COM 333H & 623H)

DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 15, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
JANUARY 7, 2021

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 15, TOWNSHIP 21 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 NE/4 SE/4 OF SAID SECTION 15, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M., WHENCE THE SOUTHEAST CORNER OF SAID SECTION 15, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS S06°43'48"E, A DISTANCE OF 1375.24 FEET;

THENCE N56°42'46"E A DISTANCE OF 191.44 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE EAST QUARTER CORNER OF SAID SECTION 15, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS N00°02'38"W, A DISTANCE OF 1187.67 FEET;

SAID STRIP OF LAND BEING 191.44 FEET OR 11.60 RODS IN LENGTH, CONTAINING 0.132 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NE/4 SE/4 191.44 L.F. 11.60 RODS 0.132 ACRES

GENERAL NOTES

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

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

SHEET: 2-4

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

SURVEYOR CERTIFICATE

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

IN WITNESS WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 7th DAY OF JANUARY 2021

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

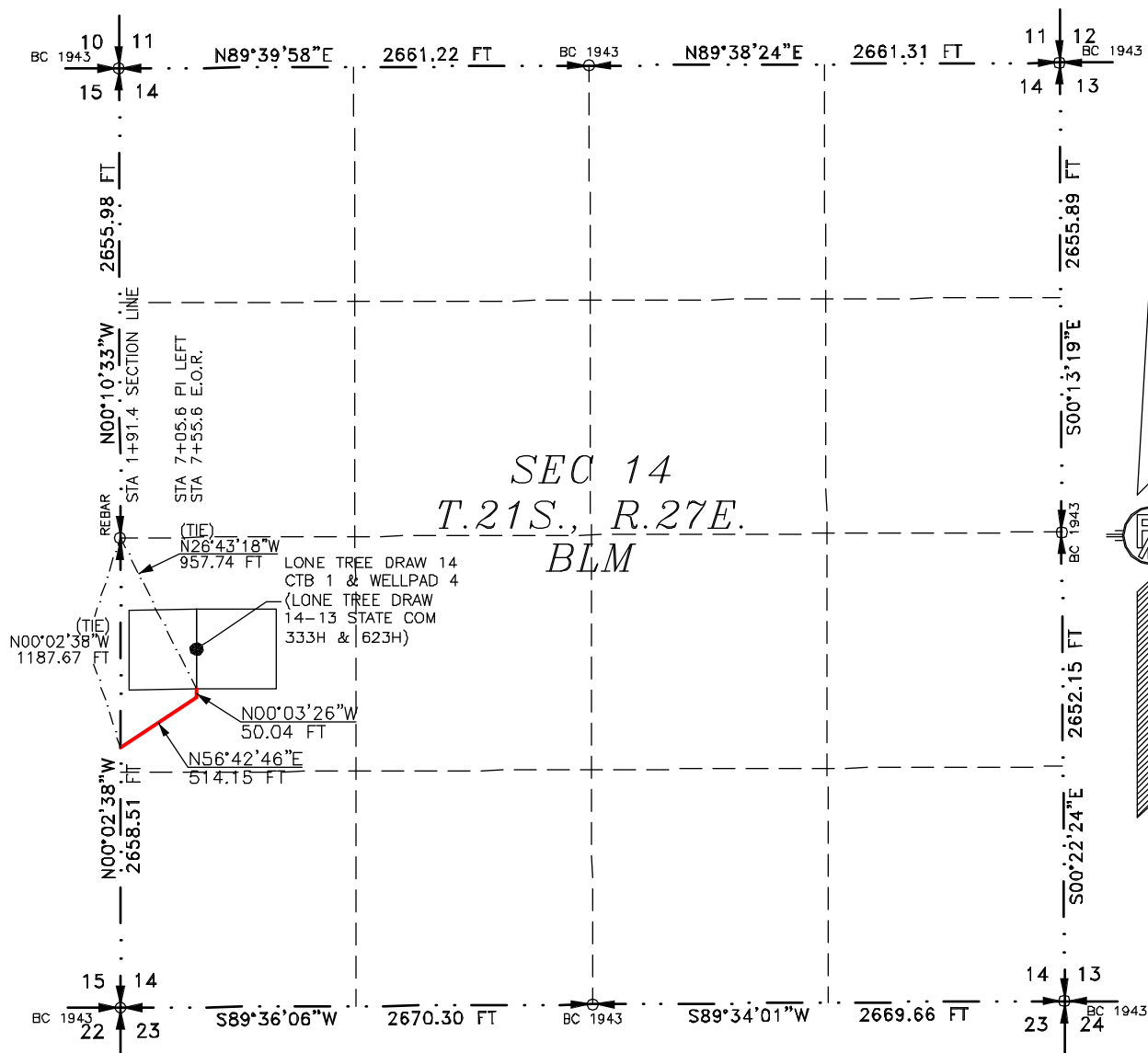
MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

SURVEY NO. 7257C

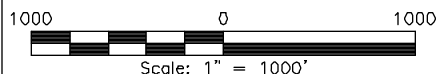
ACCESS ROAD PLAT (AA000221611)

ACCESS ROAD FOR LONE TREE DRAW 14 CTB 1 & WELLPAD 4
(LONE TREE DRAW 14-13 STATE COM 333H & 623H)

DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 14, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
JANUARY 7, 2021



SEE NEXT SHEET (4-4) FOR DESCRIPTION

**GENERAL NOTES**

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

SHEET: 3-4

MADRON SURVEYING, INC. 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 7th DAY OF JANUARY 2021

FILMON F. JARAMILLO, PLS
12797
NEW MEXICO PROFESSIONAL SURVEYOR

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

SURVEY NO. 7257C

ACCESS ROAD PLAT (AA000221611)

ACCESS ROAD FOR LONE TREE DRAW 14 CTB 1 & WELLPAD 4
(LONE TREE DRAW 14-13 STATE COM 333H & 623H)

DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 14, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
JANUARY 7, 2021

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 14, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE NW/4 SW/4 OF SAID SECTION 14, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M., WHENCE THE WEST QUARTER CORNER OF SAID SECTION 14, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS N00°02'38"W, A DISTANCE OF 1187.67 FEET;
THENCE N56°42'46"E A DISTANCE OF 514.15 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N00°03'26"W A DISTANCE OF 50.04 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE WEST QUARTER CORNER OF SAID SECTION 14, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS N26°43'18"W, A DISTANCE OF 957.74 FEET;

SAID STRIP OF LAND BEING 564.19 FEET OR 34.19 RODS IN LENGTH, CONTAINING 0.389 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 SW/4 564.19 L.F. 34.19 RODS 0.389 ACRES

GENERAL NOTES

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

SHEET: 4-4

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

SURVEYOR CERTIFICATE

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

IN WITNESS WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 7th DAY OF JANUARY 2021

FILIMON F. JARAMILLO, PLS
301 SOUTH CANAL, CARLSBAD, NEW MEXICO 88220
(575) 234-3341

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

SURVEY NO. 7257C

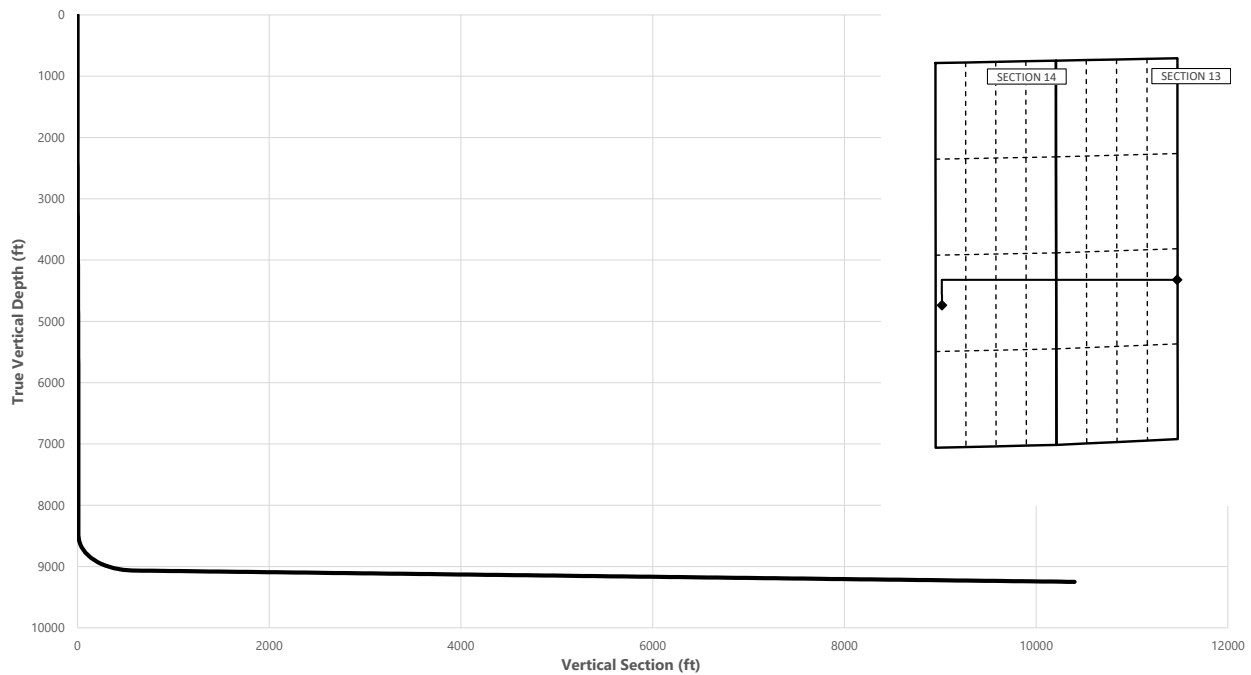
LONE TREE DRAW 14-13 STATE COM 623H



Well: LONE TREE DRAW 14-13 STATE COM 623H
County: Eddy
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
2000.00	0.00	359.50	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2500.00	5.00	359.50	2499.37	21.80	-0.19	0.55	1.00	Hold Tangent
6163.71	5.00	359.50	6149.13	341.10	-2.98	8.57	0.00	Drop to Vertical
6413.71	0.00	359.50	6398.81	352.00	-3.07	8.84	2.00	Hold Vertical
8507.04	0.00	90.00	8492.14	352.00	-3.07	8.84	0.00	KOP
9396.26	88.92	90.00	9065.00	352.00	559.11	570.70	10.00	Landing Point
19234.13	88.92	90.00	9250.00	352.00	10395.24	10401.20	0.00	BHL



Key Depths	MD (ft)	TVD (ft)
Tansill	0.00	0.00
Yates	365.00	365.00
Capitan Reef Top	675.00	675.00
Delaware	2946.33	2944.00
Bone Spring 1st	6542.89	6528.00
Bone Spring 2nd	7300.89	7286.00
Bone Spring 3rd	8664.88	8648.00
Wolfcamp / Point of Penetration	9029.25	8945.00
Exit	19154.13	9248.51

SHL
KOP
Point of Penetration
Exit
BHL

MD (ft)	TVD (ft)	Lat (°)	Long (°)	Section Footages
0.00	0.00	32.4782	-104.1683	1960' FSL, 280' FWL of Sec 14 in T21S, R27E
8507.04	8492.14	32.4792	-104.1683	2317' FSL, 274' FWL of Sec 14 in T21S, R27E
9029.25	8945.00	32.4789	-104.1688	2200' FSL, 100' FWL of Sec 14 in T21S, R27E
19154.13	9248.51	32.4792	-104.1347	2200' FSL, 100' FEL of Sec 13 in T21S, R27E
19234.13	9250.00	32.4791	-104.1346	2200' FSL, 20' FEL of Sec 13 in T21S, R27E

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Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	359.50	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	359.50	200.00	0.00	0.00	0.00	0.00	
250.00	0.00	359.50	250.00	0.00	0.00	0.00	0.00	Tansill
300.00	0.00	359.50	300.00	0.00	0.00	0.00	0.00	
365.00	0.00	359.50	365.00	0.00	0.00	0.00	0.00	Yates
400.00	0.00	359.50	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	359.50	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	359.50	600.00	0.00	0.00	0.00	0.00	
675.00	0.00	359.50	675.00	0.00	0.00	0.00	0.00	Capitan Reef Top
700.00	0.00	359.50	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	359.50	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	359.50	900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	359.50	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	359.50	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	359.50	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	359.50	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	359.50	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	359.50	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	359.50	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	359.50	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	359.50	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	359.50	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	359.50	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	1.00	359.50	2099.99	0.87	-0.01	0.02	1.00	
2200.00	2.00	359.50	2199.96	3.49	-0.03	0.09	1.00	
2300.00	3.00	359.50	2299.86	7.85	-0.07	0.20	1.00	
2400.00	4.00	359.50	2399.68	13.96	-0.12	0.35	1.00	
2500.00	5.00	359.50	2499.37	21.80	-0.19	0.55	1.00	Hold Tangent
2600.00	5.00	359.50	2598.99	30.52	-0.27	0.77	0.00	
2700.00	5.00	359.50	2698.60	39.23	-0.34	0.99	0.00	
2800.00	5.00	359.50	2798.22	47.95	-0.42	1.20	0.00	
2900.00	5.00	359.50	2897.84	56.66	-0.49	1.42	0.00	
2946.33	5.00	359.50	2944.00	60.70	-0.53	1.52	0.00	Delaware
3000.00	5.00	359.50	2997.46	65.38	-0.57	1.64	0.00	
3100.00	5.00	359.50	3097.08	74.09	-0.65	1.86	0.00	
3200.00	5.00	359.50	3196.70	82.81	-0.72	2.08	0.00	
3300.00	5.00	359.50	3296.32	91.52	-0.80	2.30	0.00	
3400.00	5.00	359.50	3395.94	100.24	-0.88	2.52	0.00	
3500.00	5.00	359.50	3495.56	108.95	-0.95	2.74	0.00	
3600.00	5.00	359.50	3595.18	117.67	-1.03	2.96	0.00	
3700.00	5.00	359.50	3694.80	126.38	-1.10	3.17	0.00	
3800.00	5.00	359.50	3794.42	135.10	-1.18	3.39	0.00	
3900.00	5.00	359.50	3894.04	143.82	-1.26	3.61	0.00	
4000.00	5.00	359.50	3993.66	152.53	-1.33	3.83	0.00	
4100.00	5.00	359.50	4093.28	161.25	-1.41	4.05	0.00	
4200.00	5.00	359.50	4192.90	169.96	-1.48	4.27	0.00	
4300.00	5.00	359.50	4292.52	178.68	-1.56	4.49	0.00	
4400.00	5.00	359.50	4392.14	187.39	-1.64	4.71	0.00	
4500.00	5.00	359.50	4491.76	196.11	-1.71	4.92	0.00	
4600.00	5.00	359.50	4591.37	204.82	-1.79	5.14	0.00	
4700.00	5.00	359.50	4690.99	213.54	-1.86	5.36	0.00	
4800.00	5.00	359.50	4790.61	222.25	-1.94	5.58	0.00	
4900.00	5.00	359.50	4890.23	230.97	-2.02	5.80	0.00	
5000.00	5.00	359.50	4989.85	239.68	-2.09	6.02	0.00	
5100.00	5.00	359.50	5089.47	248.40	-2.17	6.24	0.00	
5200.00	5.00	359.50	5189.09	257.11	-2.25	6.46	0.00	
5300.00	5.00	359.50	5288.71	265.83	-2.32	6.68	0.00	
5400.00	5.00	359.50	5388.33	274.54	-2.40	6.89	0.00	
5500.00	5.00	359.50	5487.95	283.26	-2.47	7.11	0.00	
5600.00	5.00	359.50	5587.57	291.97	-2.55	7.33	0.00	
5700.00	5.00	359.50	5687.19	300.69	-2.63	7.55	0.00	
5800.00	5.00	359.50	5786.81	309.40	-2.70	7.77	0.00	
5900.00	5.00	359.50	5886.43	318.12	-2.78	7.99	0.00	
6000.00	5.00	359.50	5986.05	326.84	-2.85	8.21	0.00	
6100.00	5.00	359.50	6085.67	335.55	-2.93	8.43	0.00	
6163.71	5.00	359.50	6149.13	341.10	-2.98	8.57	0.00	Drop to Vertical
6200.00	4.27	359.50	6185.31	344.04	-3.00	8.64	2.00	
6300.00	2.27	359.50	6285.14	349.75	-3.05	8.78	2.00	
6400.00	0.27	359.50	6385.11	351.97	-3.07	8.84	2.00	

LONE TREE DRAW 14-13 STATE COM 623H



Well: LONE TREE DRAW 14-13 STATE COM 623H
County: Eddy
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
6413.71	0.00	359.50	6398.81	352.00	-3.07	8.84	2.00	Hold Vertical
6500.00	0.00	90.00	6485.11	352.00	-3.07	8.84	0.00	
6542.89	0.00	90.00	6528.00	352.00	-3.07	8.84	0.00	Bone Spring 1st
6600.00	0.00	90.00	6585.11	352.00	-3.07	8.84	0.00	
6700.00	0.00	90.00	6685.11	352.00	-3.07	8.84	0.00	
6800.00	0.00	90.00	6785.11	352.00	-3.07	8.84	0.00	
6900.00	0.00	90.00	6885.11	352.00	-3.07	8.84	0.00	
7000.00	0.00	90.00	6985.11	352.00	-3.07	8.84	0.00	
7100.00	0.00	90.00	7085.11	352.00	-3.07	8.84	0.00	
7200.00	0.00	90.00	7185.11	352.00	-3.07	8.84	0.00	
7300.00	0.00	90.00	7285.11	352.00	-3.07	8.84	0.00	
7300.89	0.00	90.00	7286.00	352.00	-3.07	8.84	0.00	Bone Spring 2nd
7400.00	0.00	90.00	7385.11	352.00	-3.07	8.84	0.00	
7500.00	0.00	90.00	7485.11	352.00	-3.07	8.84	0.00	
7600.00	0.00	90.00	7585.11	352.00	-3.07	8.84	0.00	
7700.00	0.00	90.00	7685.11	352.00	-3.07	8.84	0.00	
7800.00	0.00	90.00	7785.11	352.00	-3.07	8.84	0.00	
7900.00	0.00	90.00	7885.11	352.00	-3.07	8.84	0.00	
8000.00	0.00	90.00	7985.11	352.00	-3.07	8.84	0.00	
8100.00	0.00	90.00	8085.11	352.00	-3.07	8.84	0.00	
8200.00	0.00	90.00	8185.11	352.00	-3.07	8.84	0.00	
8300.00	0.00	90.00	8285.11	352.00	-3.07	8.84	0.00	
8400.00	0.00	90.00	8385.11	352.00	-3.07	8.84	0.00	
8500.00	0.00	90.00	8485.11	352.00	-3.07	8.84	0.00	
8507.04	0.00	90.00	8492.14	352.00	-3.07	8.84	0.00	KOP
8600.00	9.30	90.00	8584.70	352.00	4.45	16.36	10.00	
8664.88	15.78	90.00	8648.00	352.00	18.53	30.44	10.00	Bone Spring 3rd
8700.00	19.30	90.00	8681.48	352.00	29.12	41.01	10.00	
8800.00	29.30	90.00	8772.51	352.00	70.21	82.08	10.00	
8900.00	39.30	90.00	8855.02	352.00	126.48	138.33	10.00	
9000.00	49.30	90.00	8926.50	352.00	196.23	208.03	10.00	
9029.25	52.22	90.00	8945.00	352.00	218.88	230.67	10.00	Wolfcamp / Point of Penetration
9100.00	59.30	90.00	8984.78	352.00	277.33	289.09	10.00	
9200.00	69.30	90.00	9028.10	352.00	367.33	379.03	10.00	
9300.00	79.30	90.00	9055.13	352.00	463.47	475.12	10.00	
9396.26	88.92	90.00	9065.00	352.00	559.11	570.70	10.00	Landing Point
9400.00	88.92	90.00	9065.07	352.00	562.85	574.44	0.00	
9500.00	88.92	90.00	9066.95	352.00	662.83	674.36	0.00	
9600.00	88.92	90.00	9068.83	352.00	762.81	774.29	0.00	
9700.00	88.92	90.00	9070.71	352.00	862.80	874.22	0.00	
9800.00	88.92	90.00	9072.59	352.00	962.78	974.14	0.00	
9900.00	88.92	90.00	9074.47	352.00	1062.76	1074.07	0.00	
10000.00	88.92	90.00	9076.35	352.00	1162.74	1173.99	0.00	
10100.00	88.92	90.00	9078.23	352.00	1262.73	1273.92	0.00	
10200.00	88.92	90.00	9080.12	352.00	1362.71	1373.84	0.00	
10300.00	88.92	90.00	9082.00	352.01	1462.69	1473.77	0.00	
10400.00	88.92	90.00	9083.88	352.01	1562.67	1573.69	0.00	
10500.00	88.92	90.00	9085.76	352.01	1662.66	1673.62	0.00	
10600.00	88.92	90.00	9087.64	352.01	1762.64	1773.54	0.00	
10700.00	88.92	90.00	9089.52	352.01	1862.62	1873.47	0.00	
10800.00	88.92	90.00	9091.40	352.01	1962.60	1973.39	0.00	
10900.00	88.92	90.00	9093.28	352.01	2062.58	2073.32	0.00	
11000.00	88.92	90.00	9095.16	352.01	2162.57	2173.24	0.00	
11100.00	88.92	90.00	9097.04	352.01	2262.55	2273.17	0.00	
11200.00	88.92	90.00	9098.92	352.01	2362.53	2373.09	0.00	
11300.00	88.92	90.00	9100.80	352.01	2462.51	2473.02	0.00	
11400.00	88.92	90.00	9102.68	352.01	2562.50	2572.94	0.00	
11500.00	88.92	90.00	9104.56	352.01	2662.48	2672.87	0.00	
11600.00	88.92	90.00	9106.44	352.01	2762.46	2772.79	0.00	
11700.00	88.92	90.00	9108.32	352.01	2862.44	2872.72	0.00	
11800.00	88.92	90.00	9110.21	352.01	2962.43	2972.64	0.00	
11900.00	88.92	90.00	9112.09	352.01	3062.41	3072.57	0.00	
12000.00	88.92	90.00	9113.97	352.01	3162.39	3172.49	0.00	
12100.00	88.92	90.00	9115.85	352.01	3262.37	3272.42	0.00	
12200.00	88.92	90.00	9117.73	352.01	3362.35	3372.34	0.00	
12300.00	88.92	90.00	9119.61	352.01	3462.34	3472.27	0.00	
12400.00	88.92	90.00	9121.49	352.01	3562.32	3572.19	0.00	
12500.00	88.92	90.00	9123.37	352.01	3662.30	3672.12	0.00	
12600.00	88.92	90.00	9125.25	352.01	3762.28	3772.04	0.00	
12700.00	88.92	90.00	9127.13	352.01	3862.27	3871.97	0.00	

LONE TREE DRAW 14-13 STATE COM 623H



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MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
12800.00	88.92	90.00	9129.01	352.01	3962.25	3971.89	0.00	
12900.00	88.92	90.00	9130.89	352.01	4062.23	4071.82	0.00	
13000.00	88.92	90.00	9132.77	352.01	4162.21	4171.74	0.00	
13100.00	88.92	90.00	9134.65	352.01	4262.20	4271.67	0.00	
13200.00	88.92	90.00	9136.53	352.01	4362.18	4371.59	0.00	
13300.00	88.92	90.00	9138.41	352.01	4462.16	4471.52	0.00	
13400.00	88.92	90.00	9140.30	352.01	4562.14	4571.44	0.00	
13500.00	88.92	90.00	9142.18	352.01	4662.12	4671.37	0.00	
13600.00	88.92	90.00	9144.06	352.01	4762.11	4771.29	0.00	
13700.00	88.92	90.00	9145.94	352.01	4862.09	4871.22	0.00	
13800.00	88.92	90.00	9147.82	352.01	4962.07	4971.14	0.00	
13900.00	88.92	90.00	9149.70	352.01	5062.05	5071.07	0.00	
14000.00	88.92	90.00	9151.58	352.01	5162.04	5170.99	0.00	
14100.00	88.92	90.00	9153.46	352.01	5262.02	5270.92	0.00	
14200.00	88.92	90.00	9155.34	352.01	5362.00	5370.84	0.00	
14300.00	88.92	90.00	9157.22	352.01	5461.98	5470.77	0.00	
14400.00	88.92	90.00	9159.10	352.01	5561.97	5570.69	0.00	
14500.00	88.92	90.00	9160.98	352.01	5661.95	5670.62	0.00	
14600.00	88.92	90.00	9162.86	352.01	5761.93	5770.54	0.00	
14700.00	88.92	90.00	9164.74	352.01	5861.91	5870.47	0.00	
14800.00	88.92	90.00	9166.62	352.01	5961.89	5970.39	0.00	
14900.00	88.92	90.00	9168.50	352.01	6061.88	6070.32	0.00	
15000.00	88.92	90.00	9170.38	352.01	6161.86	6170.24	0.00	
15100.00	88.92	90.00	9172.27	352.01	6261.84	6270.17	0.00	
15200.00	88.92	90.00	9174.15	352.01	6361.82	6370.09	0.00	
15300.00	88.92	90.00	9176.03	352.01	6461.81	6470.02	0.00	
15400.00	88.92	90.00	9177.91	352.01	6561.79	6569.94	0.00	
15500.00	88.92	90.00	9179.79	352.01	6661.77	6669.87	0.00	
15600.00	88.92	90.00	9181.67	352.01	6761.75	6769.79	0.00	
15700.00	88.92	90.00	9183.55	352.01	6861.74	6869.72	0.00	
15800.00	88.92	90.00	9185.43	352.01	6961.72	6969.64	0.00	
15900.00	88.92	90.00	9187.31	352.01	7061.70	7069.57	0.00	
16000.00	88.92	90.00	9189.19	352.01	7161.68	7169.49	0.00	
16100.00	88.92	90.00	9191.07	352.01	7261.66	7269.42	0.00	
16200.00	88.92	90.00	9192.95	352.01	7361.65	7369.34	0.00	
16300.00	88.92	90.00	9194.83	352.01	7461.63	7469.27	0.00	
16400.00	88.92	90.00	9196.71	352.01	7561.61	7569.19	0.00	
16500.00	88.92	90.00	9198.59	352.01	7661.59	7669.12	0.00	
16600.00	88.92	90.00	9200.47	352.01	7761.58	7769.04	0.00	
16700.00	88.92	90.00	9202.36	352.01	7861.56	7868.97	0.00	
16800.00	88.92	90.00	9204.24	352.01	7961.54	7968.89	0.00	
16900.00	88.92	90.00	9206.12	352.01	8061.52	8068.82	0.00	
17000.00	88.92	90.00	9208.00	352.01	8161.51	8168.74	0.00	
17100.00	88.92	90.00	9209.88	352.01	8261.49	8268.67	0.00	
17200.00	88.92	90.00	9211.76	352.01	8361.47	8368.59	0.00	
17300.00	88.92	90.00	9213.64	352.01	8461.45	8468.52	0.00	
17400.00	88.92	90.00	9215.52	352.01	8561.43	8568.44	0.00	
17500.00	88.92	90.00	9217.40	352.01	8661.42	8668.37	0.00	
17600.00	88.92	90.00	9219.28	352.01	8761.40	8768.29	0.00	
17700.00	88.92	90.00	9221.16	352.01	8861.38	8868.22	0.00	
17800.00	88.92	90.00	9223.04	352.02	8961.36	8968.14	0.00	
17900.00	88.92	90.00	9224.92	352.02	9061.35	9068.07	0.00	
18000.00	88.92	90.00	9226.80	352.02	9161.33	9167.99	0.00	
18100.00	88.92	90.00	9228.68	352.02	9261.31	9267.92	0.00	
18200.00	88.92	90.00	9230.56	352.02	9361.29	9367.84	0.00	
18300.00	88.92	90.00	9232.45	352.02	9461.28	9467.77	0.00	
18400.00	88.92	90.00	9234.33	352.02	9561.26	9567.69	0.00	
18500.00	88.92	90.00	9236.21	352.02	9661.24	9667.62	0.00	
18600.00	88.92	90.00	9238.09	352.02	9761.22	9767.54	0.00	
18700.00	88.92	90.00	9239.97	352.02	9861.20	9867.47	0.00	
18800.00	88.92	90.00	9241.85	352.02	9961.19	9967.39	0.00	
18900.00	88.92	90.00	9243.73	352.02	10061.17	10067.32	0.00	
19000.00	88.92	90.00	9245.61	352.02	10161.15	10167.24	0.00	
19100.00	88.92	90.00	9247.49	352.02	10261.13	10267.17	0.00	
19154.13	88.92	90.00	9248.51	352.02	10315.26	10321.26	0.00	Exit
19200.00	88.92	90.00	9249.37	352.02	10361.12	10367.09	0.00	
19234.13	88.92	90.00	9250.00	352.00	10395.24	10401.20	0.00	BHL



Well: LONE TREE DRAW 14-13 STATE COM 623H
County: Eddy
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	

LONE TREE DRAW 14-13 STATE COM 623H

1. Geologic Formations

TVD of target	9249	Pilot hole depth	N/A
MD at TD:	19234	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Tansill	250		
Yates	365		
Capitan Reef Top	675		
Delaware	2944		
Bone Spring 1st	6528		
Bone Spring 2nd	7286		
Bone Spring 3rd	8648		
Wolfcamp	8945		

*H2S, water flows, loss of circulation, abnormal pressures, etc.

LONE TREE DRAW 14-13 STATE COM 623H

2. Casing Program (Primary Design)

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Casing Interval		Casing Interval	
					From (MD)	To (MD)	From (TVD)	To (TVD)
17 1/2	13 3/8	48	H40	STC	0	290	0	290
9 7/8	8 5/8	32	P110	TLW	0	8648	0	8648
7 7/8	5 1/2	17	P110	BTC	0	19234	0	9249

• All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for contingency casing.

3. Cementing Program (Primary Design)

Casing	# Skis	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	248	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	261	Surf	9	3.27	Lead: Class C Cement + additives
	465	4000' above	13.2	1.44	Tail: Class H / C + additives
Int 1 Intermediate Squeeze	As Needed	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
	261	Surf	9	3.27	Lead: Class C Cement + additives
	465	4000' above	13.2	1.44	Tail: Class H / C + additives
Production	117	6507	9	3.27	Lead: Class H / C + additives
	1420	8507	13.2	1.44	Tail: Class H / C + additives

Casing String	% Excess
Surface	50%
Intermediate 1	30%
Intermediate 1 (Two Stage)	25%
Prod	10%

LONE TREE DRAW 14-13 STATE COM 623H

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?		Size?	Min. Required WP	Type	✓	Tested to:	
Int 1		13-5/8"	5M	Annular		X	50% of rated working pressure
				Blind Ram		X	5M
				Pipe Ram			
				Double Ram		X	
				Other*			
Production		13-5/8"	5M	Annular (5M)		X	50% of rated working pressure
				Blind Ram		X	5M
				Pipe Ram			
				Double Ram		X	
				Other*			
				Annular (5M)			
				Blind Ram			
				Pipe Ram			
				Double Ram			
				Other*			
N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.						
Y	A variance is requested to run a 5 M annular on a 10M system						

LONE TREE DRAW 14-13 STATE COM 623H

5. Mud Program (Three String Design)

Section	Type	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate	DBE / Cut Brine	10-10.5
Production	OBM	10-10.5

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

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
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6. Logging and Testing Procedures

Logging, Coring and Testing	
X	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain.
	Coring? If yes, explain.

Additional logs planned		Interval
	Resistivity	Int. shoe to KOP
	Density	Int. shoe to KOP
X	CBL	Production casing
X	Mud log	Intermediate shoe to TD
	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH pressure at deepest TVD	5050
Abnormal temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogen Sulfide (H₂S) monitors will be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.

N	H ₂ S is present
Y	H ₂ S plan attached.

8. Other facets of operation

Is this a walking operation? Potentially

- 1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
- 2 The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
- 3 The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed

LONE TREE DRAW 14-13 STATE COM 623H

from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
 - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.,
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
- 3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pa.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. A that time an approved BOP stack will be nipped up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

X Directional Plan
 Other, describe

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
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District III

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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

COMMENTS

Action 14419

COMMENTS

Operator:	DEVON ENERGY PRODUCTION COMPAN	333 West Sheridan Ave.	Oklahoma City, OK73102	OGRID:	6137	Action Number:	14419	Action Type:	C-103A
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Created By	Comment	Comment Date
kpickford	KP GEO Review 1/14/2020	01/14/2021

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CONDITIONS

Action 14419

CONDITIONS OF APPROVAL

Operator: DEVON ENERGY PRODUCTION COMPAN			333 West Sheridan Ave.	Oklahoma City, OK73102	OGRID: 6137	Action Number: 14419	Action Type: C-103A
OCD Reviewer					Condition		
jagarcia					None		