

Submit 1 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

Rec'd 05/20/2020 - NMOCD

Form C-103
Revised July 18, 2013

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

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 ☐		WELL API NO. 30-015-46435
		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator DEVON ENERGY PRODUCTION COMPANY, LP.		6. State Oil & Gas Lease No.
3. Address of Operator 333 WEST SHERIDAN AVENUE, OKC, OK 73102		7. Lease Name or Unit Agreement Name Lone Tree Draw 14 13 State Com
4. Well Location Unit Letter <u>L</u> : <u>2040</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 Eddy, County New Mexico		8. Well Number 623H
		9. OGRID Number 6137
		10. Pool name or Wildcat Alacran Hills Upper Wolfcamp
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 ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER SHL & BHL 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 Company, LP Respectfully requests approval for a Surface Hole and Bottom Hole Change for the Lone Tree Draw 14 13 State Com 623H.

Surface Hole FROM: UL – L, Sec. 14, T21S, R27E 2040 FSL, 280 FWL
TO: UL – L, Sec. 14, T21S, R27E 2070 FSL, 280 FWL

Bottom Hole FROM: UL-I Sec. 13, T21S, R27E 1700 FSL, 20 FEL
TO: UL-I Sec. 13, T21S, R27E 2200 FSL, 20 FEL

ATTACHMENTS: REVISED C-102, DRILL PLAN, DIRECTIONAL PLAN, & H2S PLANS

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

SIGNATURE Erin Workman TITLE Regulatory Compliance Analyst DATE 05/19/20

Type or print name Erin Workman E-mail address: Erin.workman@dmn.com PHONE: (405)552-7970
For State Use Only

APPROVED BY: Raymond W. Duda TITLE Geologist DATE 5/20/2020
Conditions of Approval (if any):

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

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

Last Take Point (LTP)

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

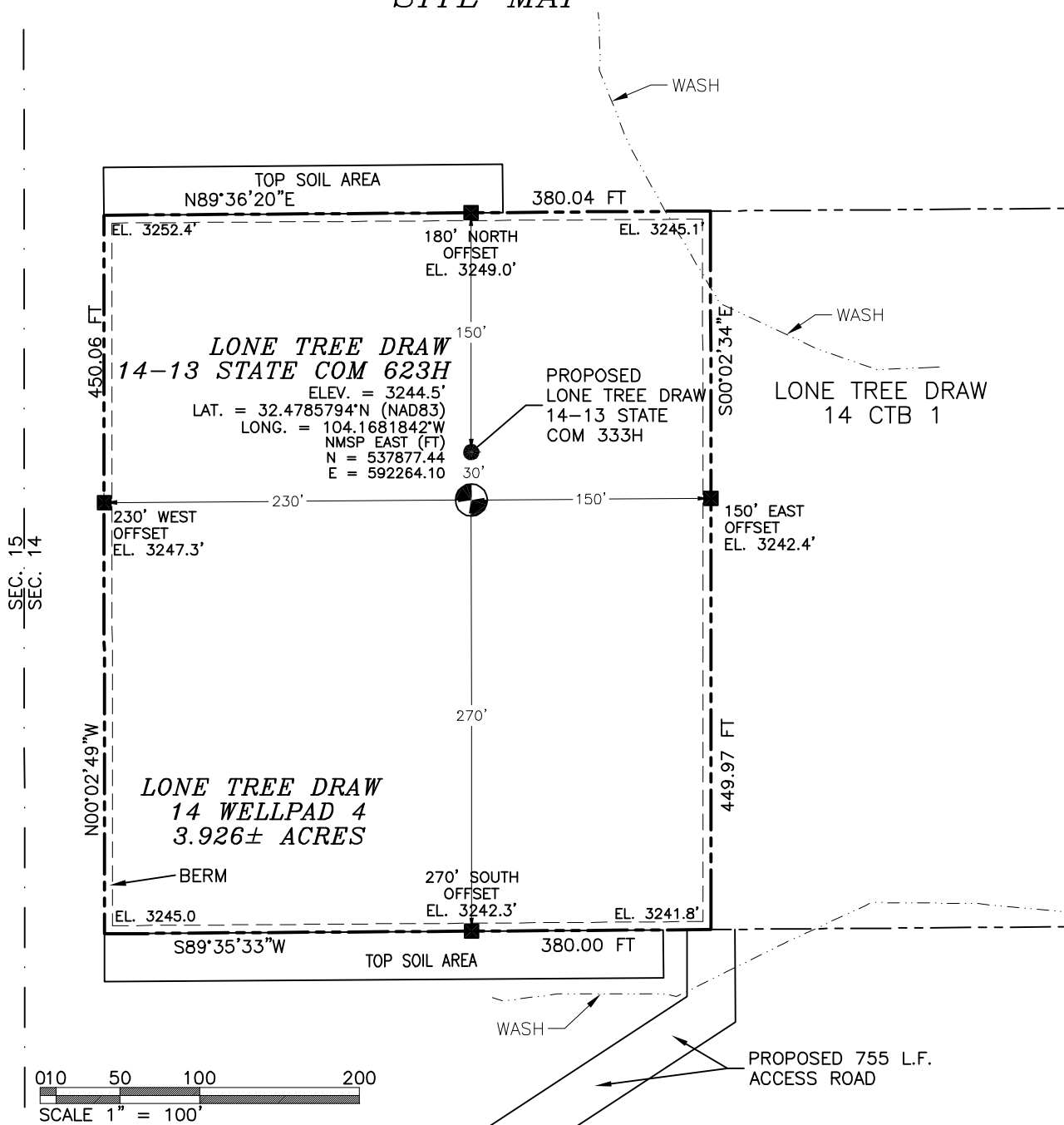
Is this well the defining well for the Horizontal Spacing Unit? ☐

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

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 0.01 MILES TO ROAD SURVEY AND FOLLOW THIS ROAD NORTHEAST 700' THEN NORTH 50' TO THE SOUTHEAST ADJACENT CORNER FOR THIS LOCATION.

I, FILMON F. JARAMILLO, A NEW MEXICO LICENSED PROFESSIONAL SURVEYOR CERTIFY THAT I HAVE DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS IN ACCORDANCE WITH THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT I HAVE COMPLIED WITH THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

FILMON F. JARAMILLO, LICENSE NO. 12799

MADRON PROFESSIONAL SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

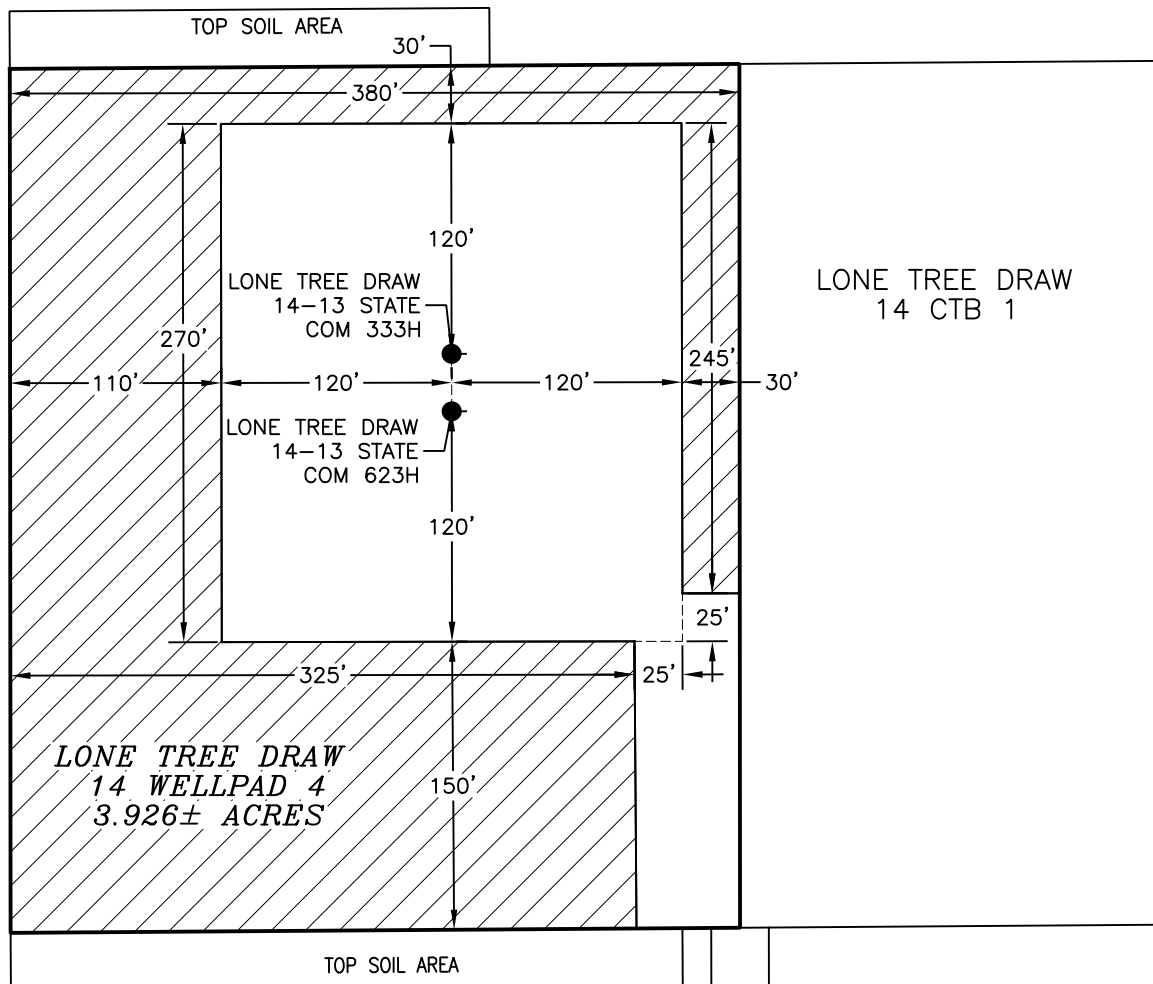
DEVON ENERGY PRODUCTION COMPANY, L.P.
LONE TREE DRAW 14-13 STATE COM 623H
LOCATED 2070 FT. FROM THE SOUTH LINE
AND 280 FT. FROM THE WEST LINE OF
SECTION 14, TOWNSHIP 21 SOUTH,
RANGE 27 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

APRIL 22, 2020

SURVEY NO. 7257A

CARLSBAD, NEW MEXICO

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



 DENOTES
 RECLAMATION AREA
 2.235± ACRES RECLAMATION AREA

PROPOSED 755 L.F.
 ACCESS ROAD



010 50 100 200
 SCALE 1" = 100'

DEVON ENERGY PRODUCTION COMPANY, L.P.
LONE TREE DRAW 14-13 STATE COM 623H
 LOCATED 2070 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

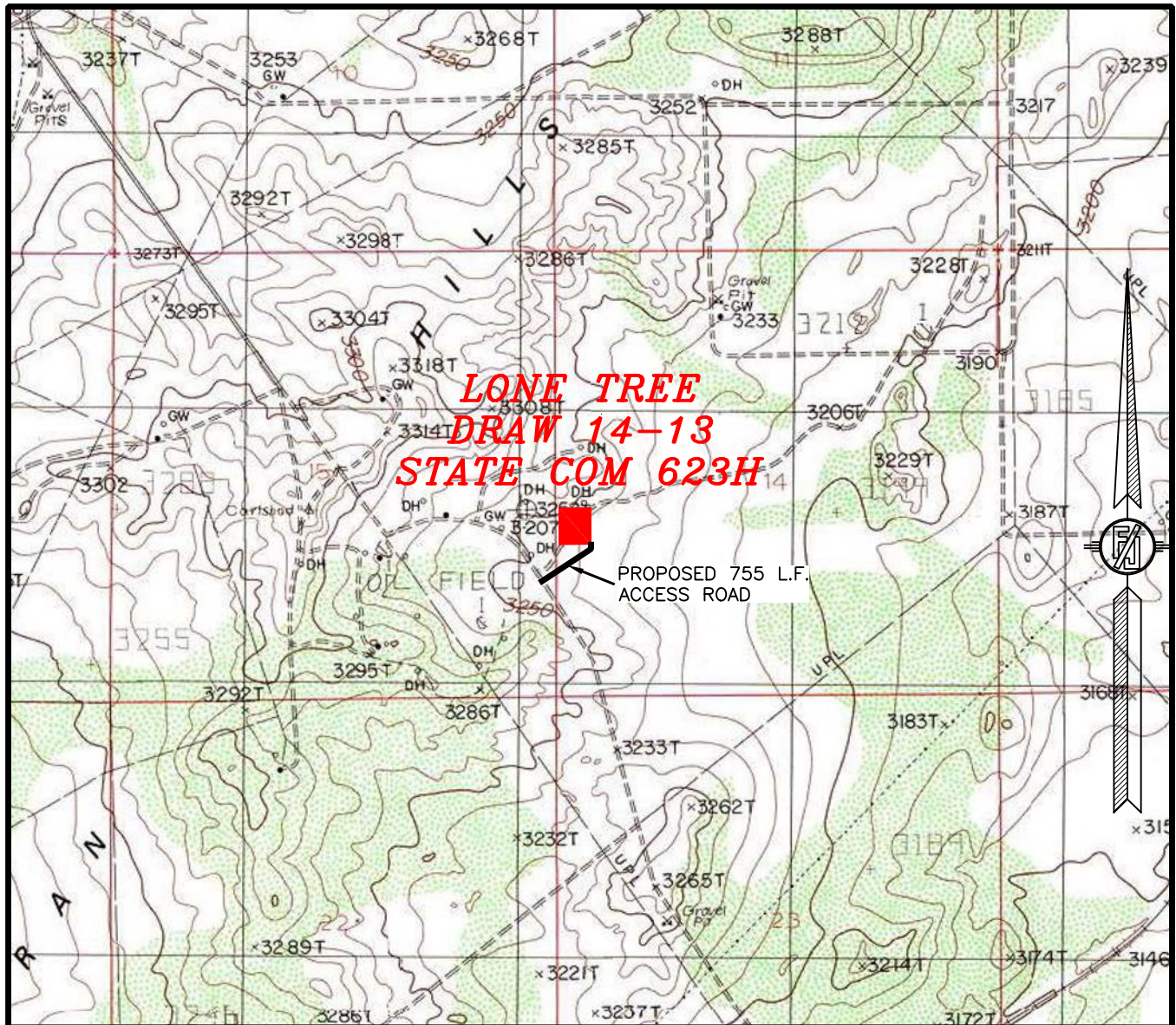
APRIL 22, 2020

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

SURVEY NO. 7257A

(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 2070 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

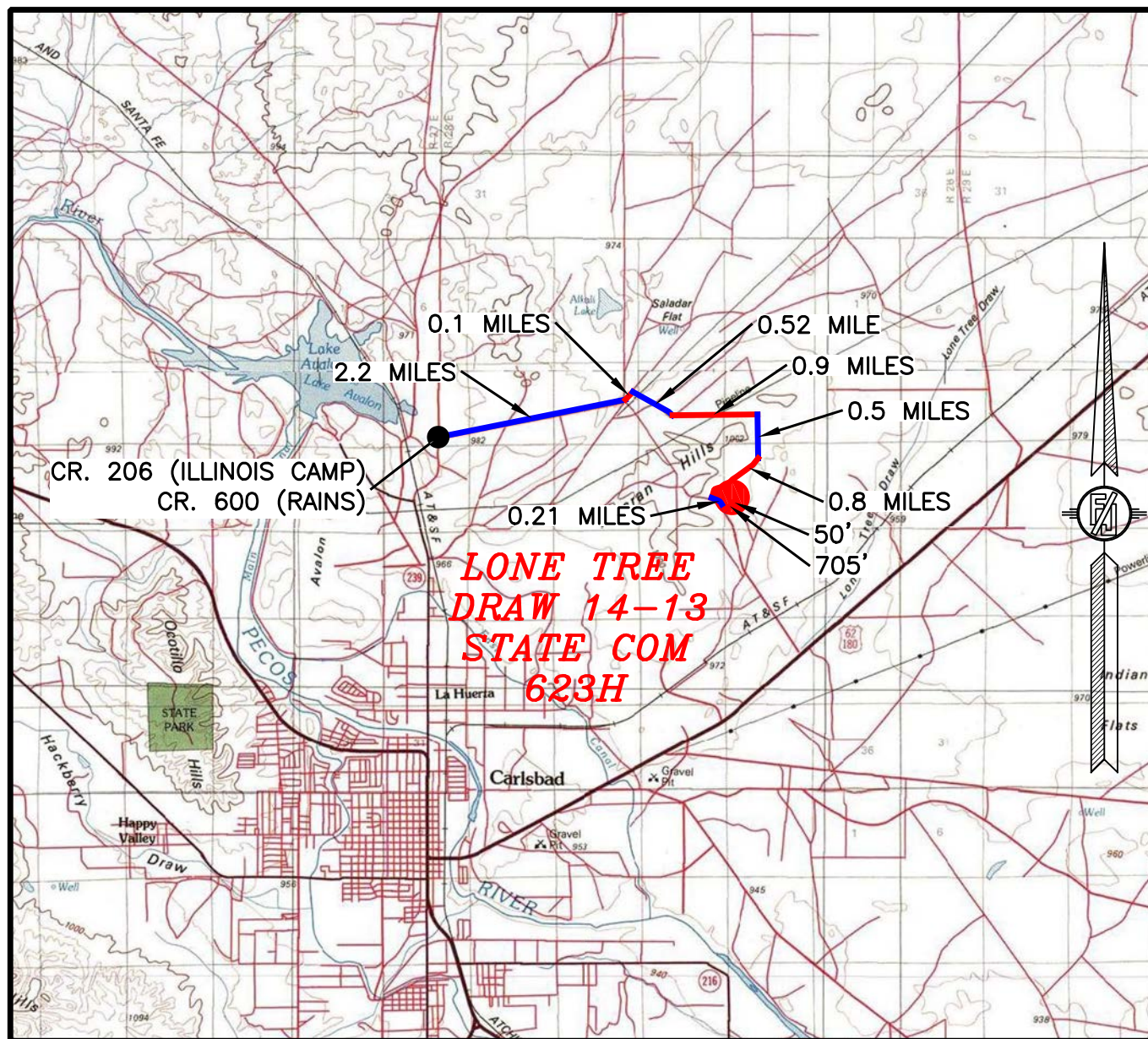
APRIL 22, 2020

MADRON SURVEYING, INC.

301 SOUTH CANAL
 (575) 234-3341

SURVEY NO. 7257A
 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 2070 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

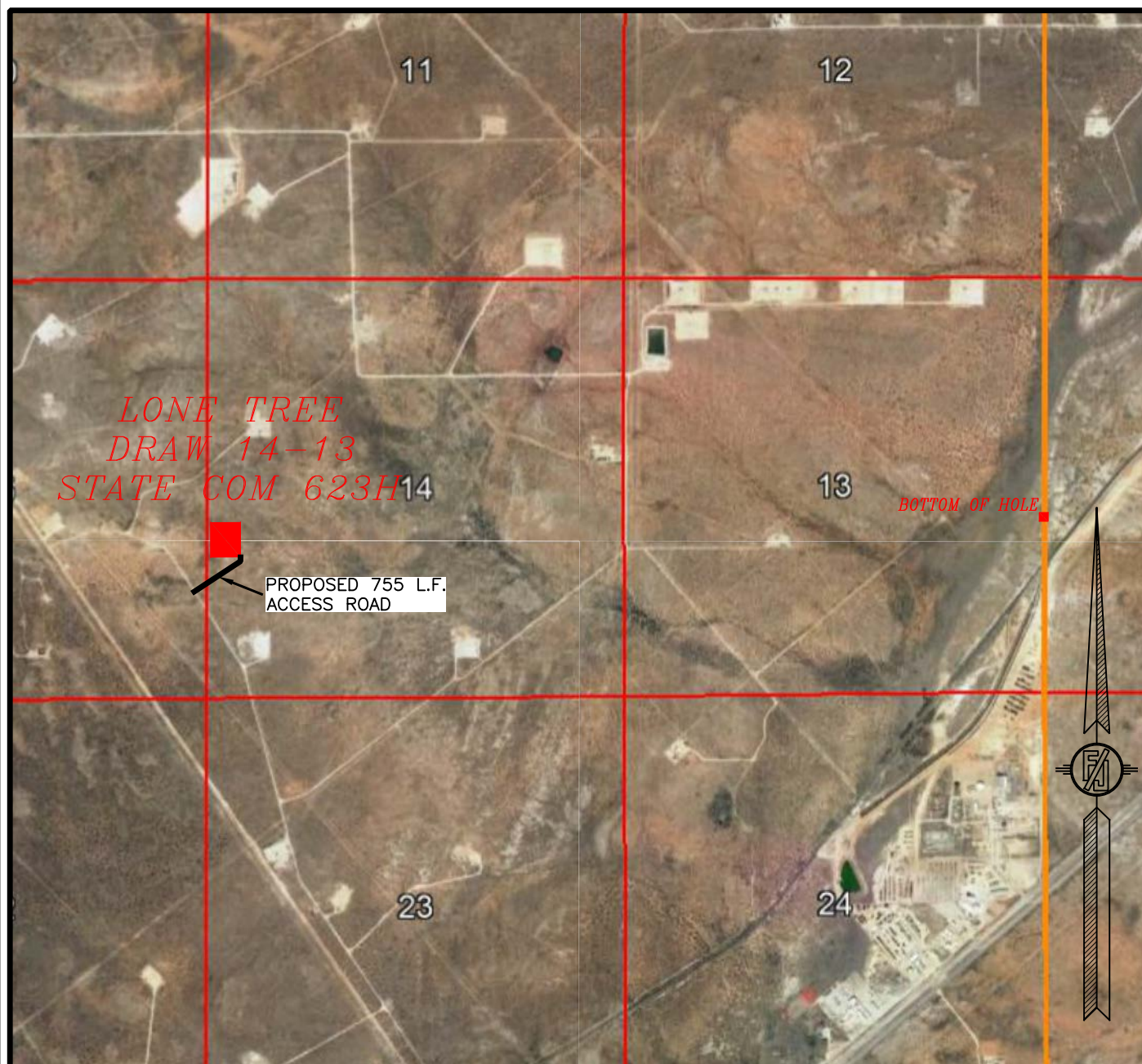
APRIL 22, 2020

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

SURVEY NO. 7257A
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 2070 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

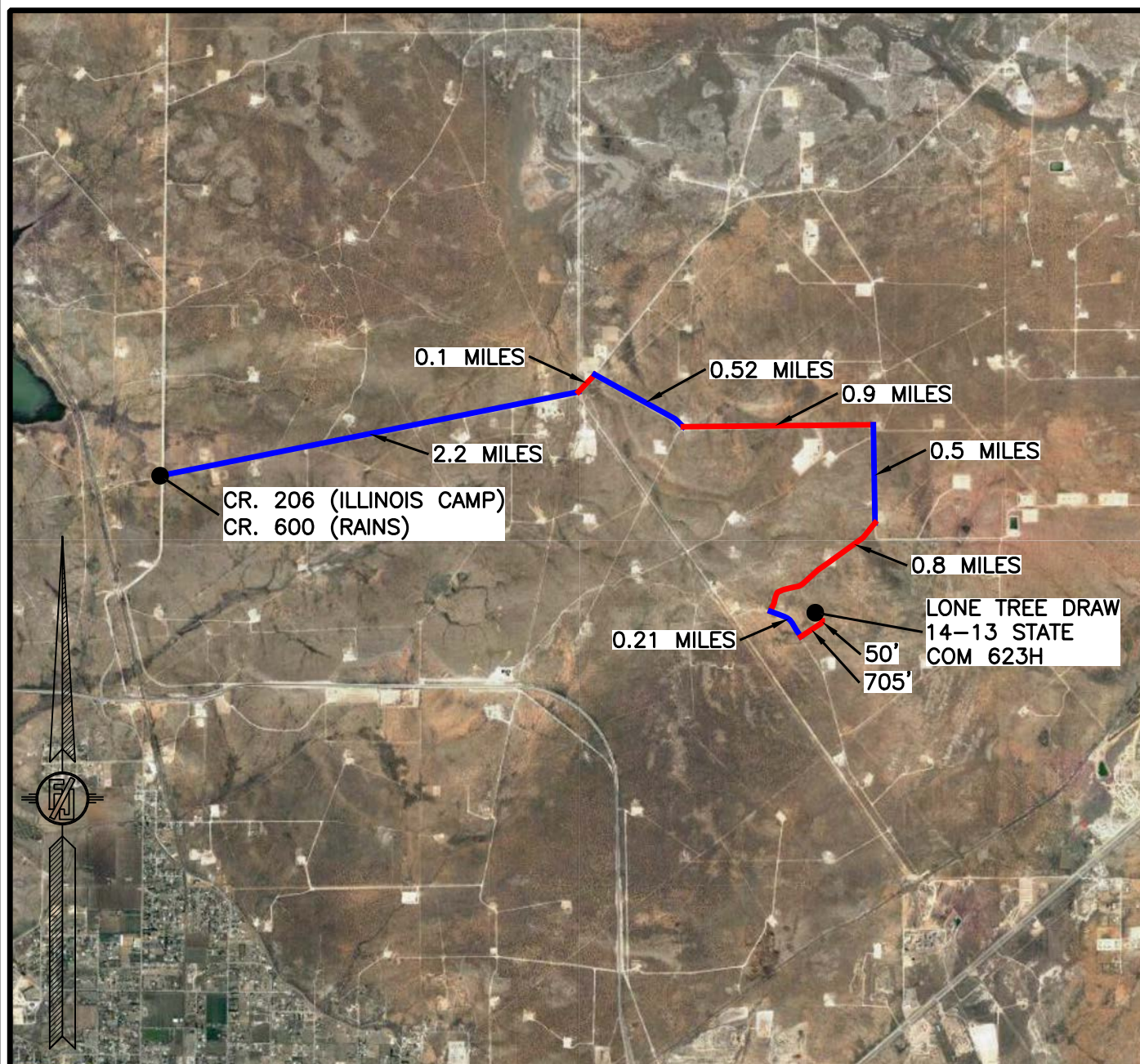
APRIL 22, 2020

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

SURVEY NO. 7257A
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 2070 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

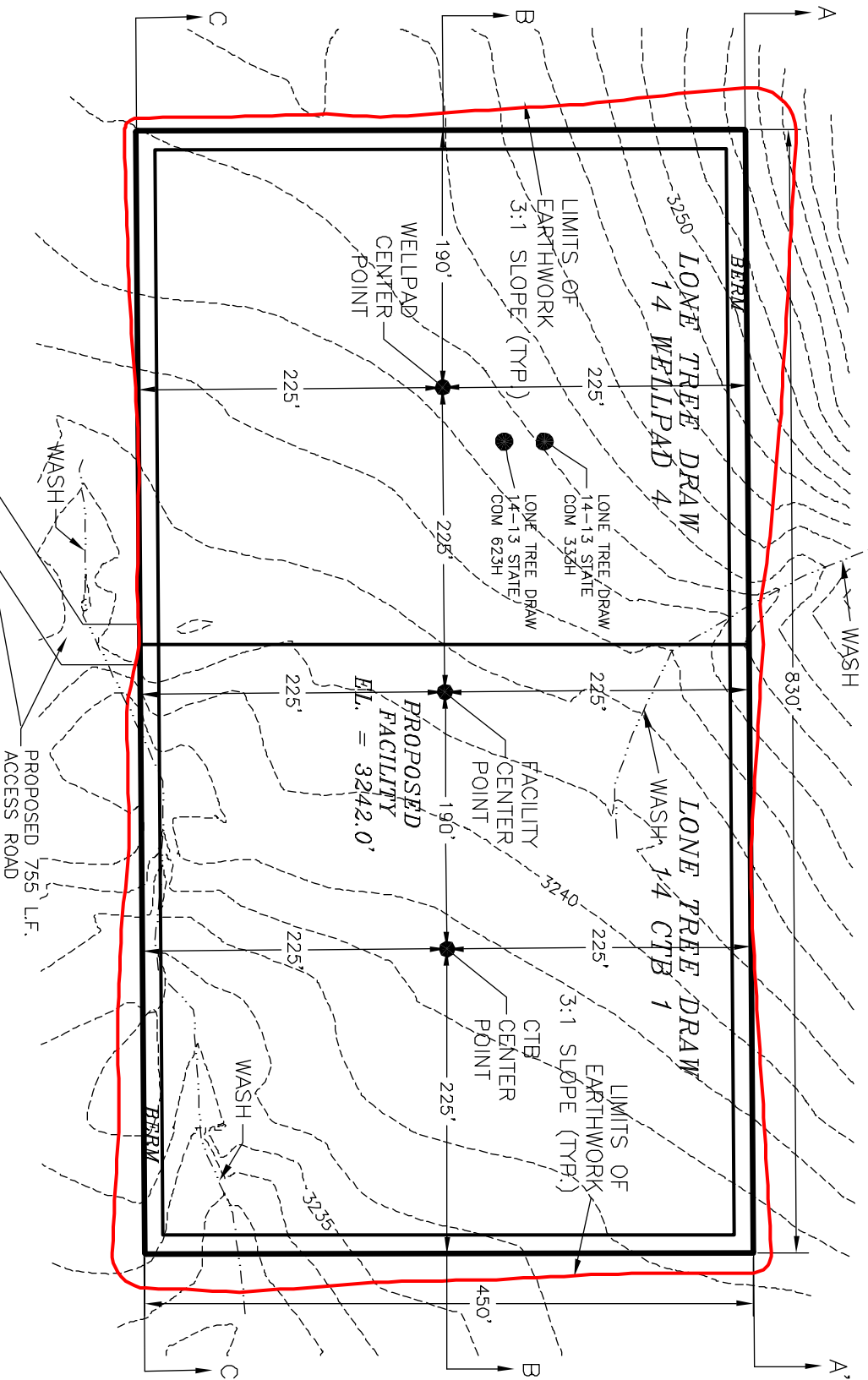
APRIL 22, 2020

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

SURVEY NO. 7257A
CARLSBAD, NEW MEXICO

PLAN VIEW



I, FILMON F. JARAMILLO, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT THE FOREGOING IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. 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

012 60 120 240
SCALE 1" = 120'

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

EARTHWORK QUANTITIES ARE ESTIMATED

APRIL 22, 2020

301 SOUTH CANAL

CARLSBAD, NEW MEXICO

SURVEY NO. 7257A

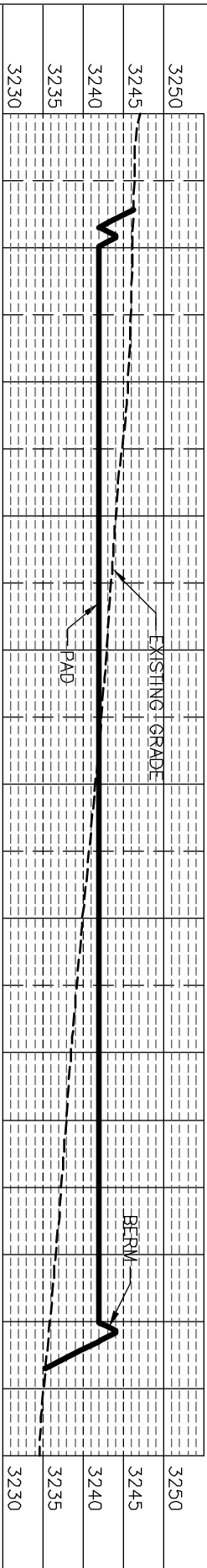
SHEET 1-2

CROSS-SECTIONS

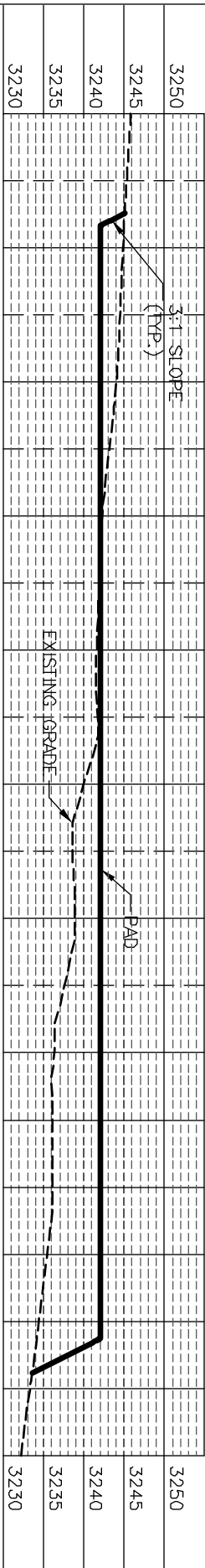
SECTION A-A'



SECTION B-B'



SECTION C-C'



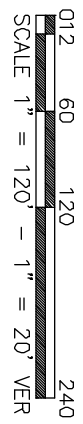
I, FILMON F. JARAMILLO, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFICATE NO. 10284, AM RESPONSIBLE FOR THIS SURVEY. THE SURVEYING INSTRUMENTS AND APPARATUS USED WERE CALIBRATED AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS SURVEY AND PLAN MEET THE MINIMUM STANDARDS FOR SURVEYING IN 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)

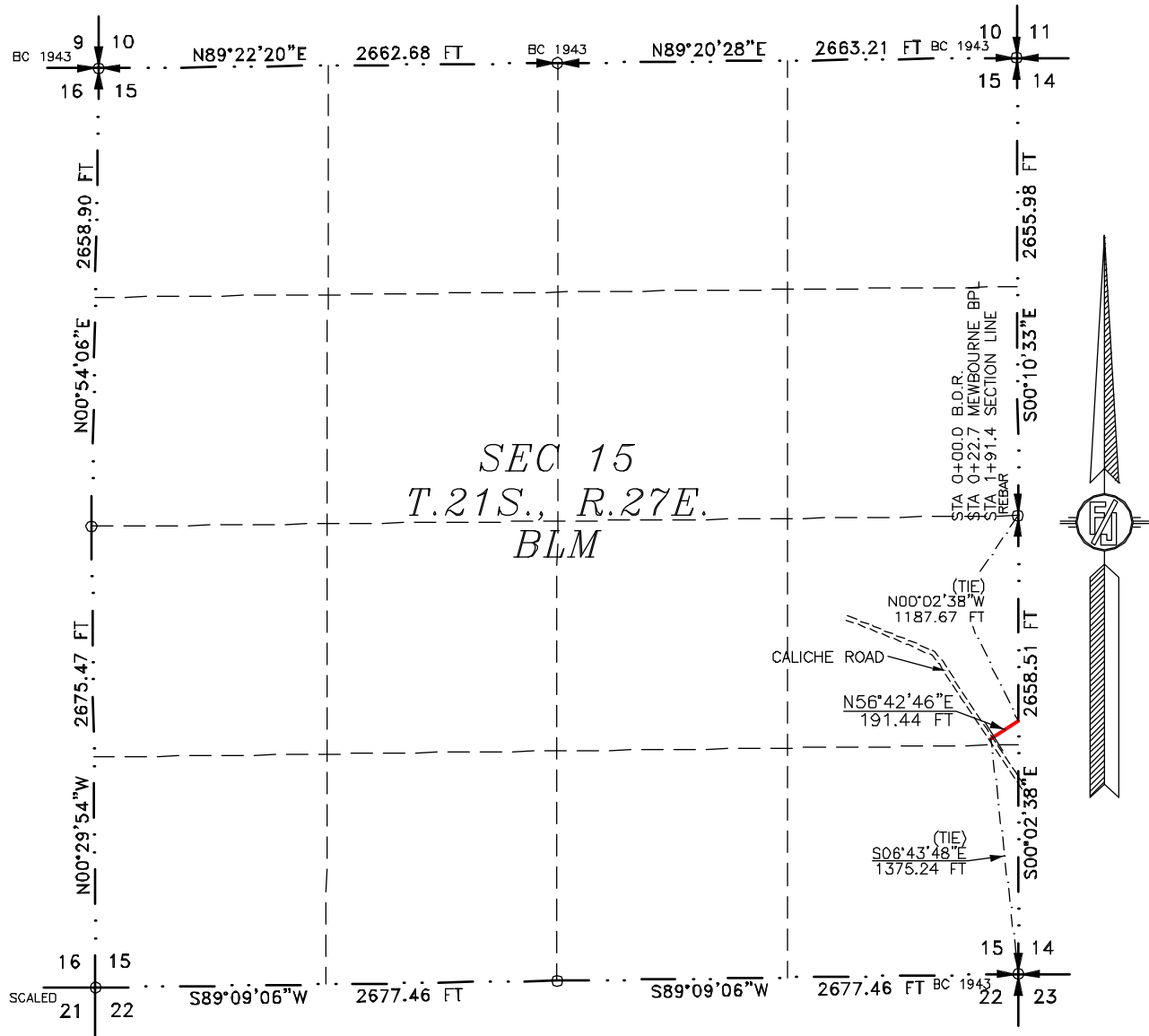
EARTHWORK QUANTITIES ARE ESTIMATED



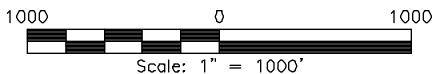
ACCESS ROAD PLAT

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
APRIL 22, 2020



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 22ND DAY OF APRIL 2020

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. 7257A

ACCESS ROAD PLAT

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
APRIL 22, 2020

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

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 22ND DAY OF APRIL 2020

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

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

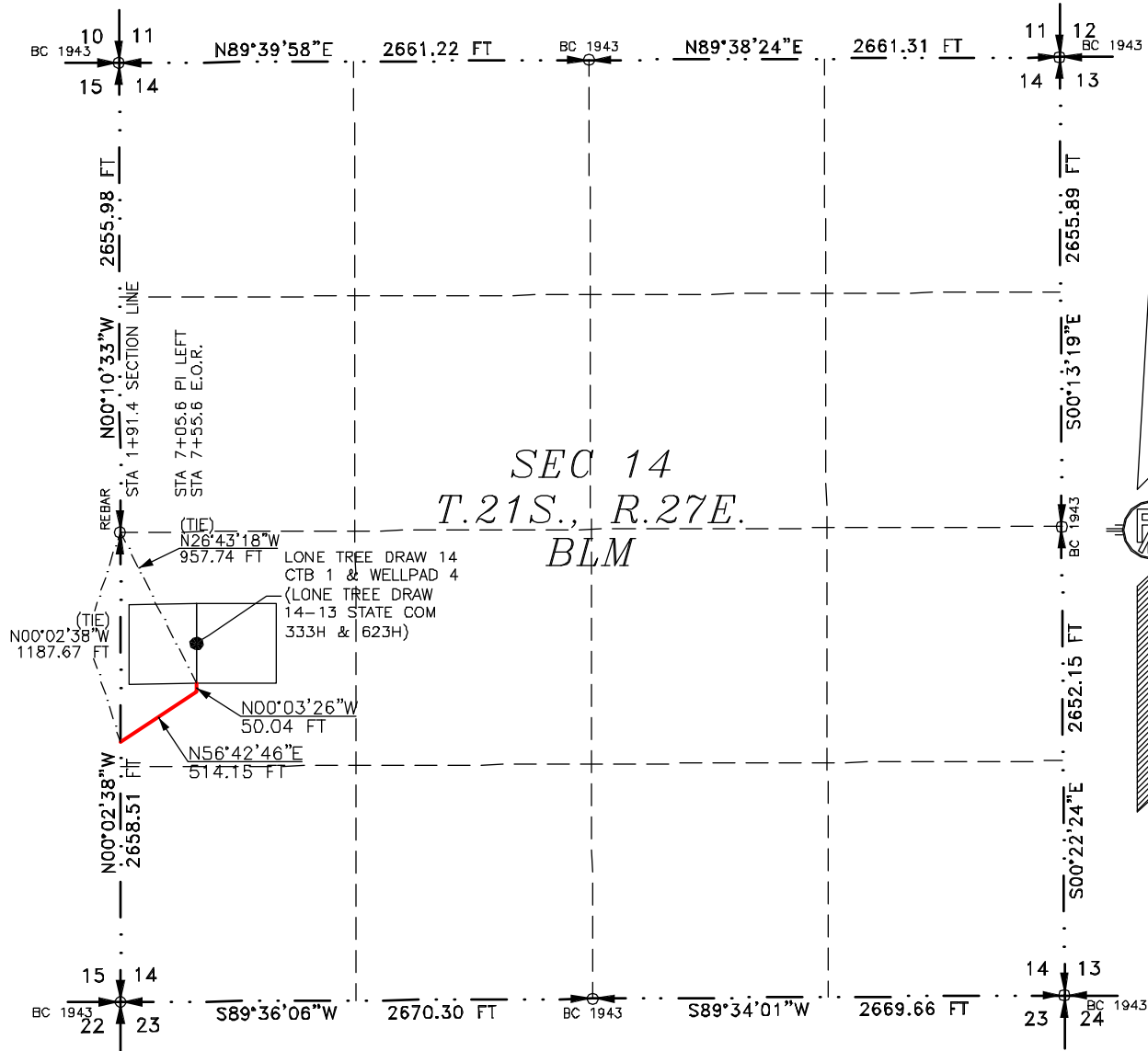
MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 234-3341

SURVEY NO. 7257A

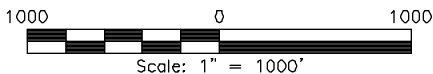
ACCESS ROAD PLAT

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
APRIL 22, 2020



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 22ND DAY OF APRIL 2020

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. 7257A

ACCESS ROAD PLAT

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
APRIL 22, 2020

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.

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 22ND DAY OF APRIL 2020

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

SURVEY NO. 7257A

SHEET: 4-4

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

1. Geologic Formations

TVD of target	9065	Pilot hole depth	N/A
MD at TD:	19448	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	50		
Salt	100		
Base of Salt	300		
Delaware	2944		
Bone Spring 1st	6528		
Bone Spring 2nd	7286		
Bone Spring 3rd	8645		
Wolfcamp	8945		

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

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	48.0	H40	STC	0	75	0	75
9 7/8	8 5/8	32.0	P110	TLW	0	8645	0	8645
7 7/8	5 1/2	17.0	P110	BTC	0	19448	0	9065

• 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	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	93	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	240	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
	240	Surf	9	3.27	Lead: Class C Cement + additives
	465	4000' above	13.2	1.44	Tail: Class H / C + additives
Production	117	6500	9.0	3.3	Lead: Class H / C + additives
	1449	8500	13.2	1.4	Tail: Class H / C + additives

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

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					

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
---	-----------------------------

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	4949
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

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

<u>X</u>	Directional Plan
<u> </u>	Other, describe

WCDSC Permian NM

Eddy County (NAD 83 NM Eastern)

Sec 14-T21S-R27E

Lone Tree Draw_14-13 State Com 623H

Wellbore #1

Plan: Permit Plan 2

Standard Planning Report - Geographic

07 May, 2020

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Lone Tree Draw_14-13 State Com 623H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3269.50ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3269.50ft
Site:	Sec 14-T21S-R27E	North Reference:	Grid
Well:	Lone Tree Draw_14-13 State Com 623H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 2		

Project	Eddy County (NAD 83 NM Eastern)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Sec 14-T21S-R27E			
Site Position:		Northing:	541,119.08 usft	Latitude:	32.487491
From:	Map	Easting:	591,975.56 usft	Longitude:	-104.169104
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.09 °

Well	Lone Tree Draw_14-13 State Com 623H					
Well Position	+N/-S	0.00 ft	Northing:	537,877.44 usft	Latitude:	32.478579
	+E/-W	0.00 ft	Easting:	592,264.10 usft	Longitude:	-104.168184
Position Uncertainty		0.50 ft	Wellhead Elevation:		Ground Level:	3,244.50 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	5/7/2020	6.94	60.16	47,729.52040337

Design	Permit Plan 2			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	88.64

Plan Survey Tool Program	Date	5/7/2020		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	19,447.63 Permit Plan 2 (Wellbore #1)	MWD+IFR1 OWSG MWD + IFR1	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,847.36	3.47	299.48	3,847.15	5.18	-9.16	1.00	1.00	0.00	299.48	
7,918.26	3.47	299.48	7,910.57	126.55	-223.89	0.00	0.00	0.00	0.00	
8,149.83	0.00	0.00	8,142.00	130.00	-230.00	1.50	-1.50	0.00	180.00	
8,499.87	0.00	0.00	8,492.04	130.00	-230.00	0.00	0.00	0.00	0.00	
9,399.88	90.00	89.37	9,065.00	136.30	342.92	10.00	10.00	0.00	89.37	PBH2L - Lone Tree D
19,447.63	90.00	89.37	9,065.00	246.80	10,390.07	0.00	0.00	0.00	0.00	PBH2L - Lone Tree D

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Lone Tree Draw_14-13 State Com 623H
Company:	WCDC Permian NM	TVD Reference:	RKB @ 3269.50ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3269.50ft
Site:	Sec 14-T21S-R27E	North Reference:	Grid
Well:	Lone Tree Draw_14-13 State Com 623H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 2		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
100.00	0.00	0.00	100.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
200.00	0.00	0.00	200.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
300.00	0.00	0.00	300.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
400.00	0.00	0.00	400.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
500.00	0.00	0.00	500.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
600.00	0.00	0.00	600.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
700.00	0.00	0.00	700.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
800.00	0.00	0.00	800.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
900.00	0.00	0.00	900.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
1,000.00	0.00	0.00	1,000.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
1,100.00	0.00	0.00	1,100.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
1,200.00	0.00	0.00	1,200.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
1,300.00	0.00	0.00	1,300.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
1,400.00	0.00	0.00	1,400.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
1,500.00	0.00	0.00	1,500.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
1,600.00	0.00	0.00	1,600.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
1,700.00	0.00	0.00	1,700.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
1,800.00	0.00	0.00	1,800.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
1,900.00	0.00	0.00	1,900.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
2,000.00	0.00	0.00	2,000.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
2,100.00	0.00	0.00	2,100.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
2,200.00	0.00	0.00	2,200.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
2,300.00	0.00	0.00	2,300.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
2,400.00	0.00	0.00	2,400.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
2,500.00	0.00	0.00	2,500.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
2,600.00	0.00	0.00	2,600.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
2,700.00	0.00	0.00	2,700.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
2,800.00	0.00	0.00	2,800.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
2,900.00	0.00	0.00	2,900.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
3,000.00	0.00	0.00	3,000.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
3,100.00	0.00	0.00	3,100.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
3,200.00	0.00	0.00	3,200.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
3,300.00	0.00	0.00	3,300.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
3,400.00	0.00	0.00	3,400.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
3,500.00	0.00	0.00	3,500.00	0.00	0.00	537,877.44	592,264.10	32.478579	-104.168184
3,600.00	1.00	299.48	3,600.00	0.43	-0.76	537,877.87	592,263.34	32.478581	-104.168187
3,700.00	2.00	299.48	3,699.96	1.72	-3.04	537,879.16	592,261.06	32.478584	-104.168194
3,800.00	3.00	299.48	3,799.86	3.86	-6.84	537,881.31	592,257.27	32.478590	-104.168207
3,847.36	3.47	299.48	3,847.15	5.18	-9.16	537,882.62	592,254.94	32.478594	-104.168214
3,900.00	3.47	299.48	3,899.69	6.75	-11.94	537,884.19	592,252.16	32.478598	-104.168223
4,000.00	3.47	299.48	3,999.51	9.73	-17.22	537,887.17	592,246.89	32.478606	-104.168240
4,100.00	3.47	299.48	4,099.32	12.71	-22.49	537,890.15	592,241.61	32.478615	-104.168257
4,200.00	3.47	299.48	4,199.14	15.69	-27.76	537,893.13	592,236.34	32.478623	-104.168274
4,300.00	3.47	299.48	4,298.96	18.67	-33.04	537,896.12	592,231.06	32.478631	-104.168291
4,400.00	3.47	299.48	4,398.77	21.66	-38.31	537,899.10	592,225.79	32.478639	-104.168309
4,500.00	3.47	299.48	4,498.59	24.64	-43.59	537,902.08	592,220.51	32.478647	-104.168326
4,600.00	3.47	299.48	4,598.40	27.62	-48.86	537,905.06	592,215.24	32.478656	-104.168343
4,700.00	3.47	299.48	4,698.22	30.60	-54.14	537,908.04	592,209.97	32.478664	-104.168360
4,800.00	3.47	299.48	4,798.04	33.58	-59.41	537,911.02	592,204.69	32.478672	-104.168377
4,900.00	3.47	299.48	4,897.85	36.56	-64.69	537,914.00	592,199.42	32.478680	-104.168394
5,000.00	3.47	299.48	4,997.67	39.54	-69.96	537,916.99	592,194.14	32.478688	-104.168411
5,100.00	3.47	299.48	5,097.49	42.52	-75.24	537,919.97	592,188.87	32.478697	-104.168428
5,200.00	3.47	299.48	5,197.30	45.51	-80.51	537,922.95	592,183.59	32.478705	-104.168445
5,300.00	3.47	299.48	5,297.12	48.49	-85.79	537,925.93	592,178.32	32.478713	-104.168462

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Lone Tree Draw_14-13 State Com 623H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3269.50ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3269.50ft
Site:	Sec 14-T21S-R27E	North Reference:	Grid
Well:	Lone Tree Draw_14-13 State Com 623H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 2		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,400.00	3.47	299.48	5,396.93	51.47	-91.06	537,928.91	592,173.04	32.478721	-104.168479
5,500.00	3.47	299.48	5,496.75	54.45	-96.34	537,931.89	592,167.77	32.478730	-104.168497
5,600.00	3.47	299.48	5,596.57	57.43	-101.61	537,934.87	592,162.49	32.478738	-104.168514
5,700.00	3.47	299.48	5,696.38	60.41	-106.88	537,937.85	592,157.22	32.478746	-104.168531
5,800.00	3.47	299.48	5,796.20	63.39	-112.16	537,940.84	592,151.94	32.478754	-104.168548
5,900.00	3.47	299.48	5,896.02	66.38	-117.43	537,943.82	592,146.67	32.478762	-104.168565
6,000.00	3.47	299.48	5,995.83	69.36	-122.71	537,946.80	592,141.39	32.478771	-104.168582
6,100.00	3.47	299.48	6,095.65	72.34	-127.98	537,949.78	592,136.12	32.478779	-104.168599
6,200.00	3.47	299.48	6,195.47	75.32	-133.26	537,952.76	592,130.85	32.478787	-104.168616
6,300.00	3.47	299.48	6,295.28	78.30	-138.53	537,955.74	592,125.57	32.478795	-104.168633
6,400.00	3.47	299.48	6,395.10	81.28	-143.81	537,958.72	592,120.30	32.478804	-104.168650
6,500.00	3.47	299.48	6,494.91	84.26	-149.08	537,961.71	592,115.02	32.478812	-104.168667
6,600.00	3.47	299.48	6,594.73	87.25	-154.36	537,964.69	592,109.75	32.478820	-104.168685
6,700.00	3.47	299.48	6,694.55	90.23	-159.63	537,967.67	592,104.47	32.478828	-104.168702
6,800.00	3.47	299.48	6,794.36	93.21	-164.91	537,970.65	592,099.20	32.478836	-104.168719
6,900.00	3.47	299.48	6,894.18	96.19	-170.18	537,973.63	592,093.92	32.478845	-104.168736
7,000.00	3.47	299.48	6,994.00	99.17	-175.46	537,976.61	592,088.65	32.478853	-104.168753
7,100.00	3.47	299.48	7,093.81	102.15	-180.73	537,979.59	592,083.37	32.478861	-104.168770
7,200.00	3.47	299.48	7,193.63	105.13	-186.00	537,982.58	592,078.10	32.478869	-104.168787
7,300.00	3.47	299.48	7,293.44	108.11	-191.28	537,985.56	592,072.82	32.478877	-104.168804
7,400.00	3.47	299.48	7,393.26	111.10	-196.55	537,988.54	592,067.55	32.478886	-104.168821
7,500.00	3.47	299.48	7,493.08	114.08	-201.83	537,991.52	592,062.27	32.478894	-104.168838
7,600.00	3.47	299.48	7,592.89	117.06	-207.10	537,994.50	592,057.00	32.478902	-104.168855
7,700.00	3.47	299.48	7,692.71	120.04	-212.38	537,997.48	592,051.73	32.478910	-104.168873
7,800.00	3.47	299.48	7,792.53	123.02	-217.65	538,000.46	592,046.45	32.478919	-104.168890
7,900.00	3.47	299.48	7,892.34	126.00	-222.93	538,003.44	592,041.18	32.478927	-104.168907
7,918.26	3.47	299.48	7,910.57	126.55	-223.89	538,003.99	592,040.21	32.478928	-104.168910
8,000.00	2.25	299.48	7,992.20	128.55	-227.44	538,006.00	592,036.66	32.478934	-104.168921
8,100.00	0.75	299.48	8,092.17	129.84	-229.72	538,007.28	592,034.39	32.478937	-104.168929
8,149.83	0.00	0.00	8,142.00	130.00	-230.00	538,007.44	592,034.10	32.478938	-104.168930
8,200.00	0.00	0.00	8,192.17	130.00	-230.00	538,007.44	592,034.10	32.478938	-104.168930
8,300.00	0.00	0.00	8,292.17	130.00	-230.00	538,007.44	592,034.10	32.478938	-104.168930
8,400.00	0.00	0.00	8,392.17	130.00	-230.00	538,007.44	592,034.10	32.478938	-104.168930
8,499.87	0.00	0.00	8,492.04	130.00	-230.00	538,007.44	592,034.10	32.478938	-104.168930
KOP @ 8500' MD, 2200' FSL, 50' FWL									
8,500.00	0.00	89.37	8,492.17	130.00	-230.00	538,007.44	592,034.10	32.478938	-104.168930
8,600.00	10.01	89.37	8,591.66	130.10	-221.27	538,007.54	592,042.83	32.478938	-104.168901
8,700.00	20.01	89.37	8,688.12	130.38	-195.41	538,007.82	592,068.70	32.478939	-104.168817
8,741.00	24.11	89.37	8,726.11	130.55	-180.01	538,007.99	592,084.09	32.478939	-104.168768
FTP @ 8741' MD, 2200' FSL, 100' FWL									
8,800.00	30.01	89.37	8,778.63	130.84	-153.18	538,008.29	592,110.92	32.478940	-104.168681
8,900.00	40.01	89.37	8,860.43	131.48	-95.88	538,008.92	592,168.22	32.478941	-104.168495
9,000.00	50.01	89.37	8,931.03	132.25	-25.25	538,009.69	592,238.85	32.478943	-104.168266
9,100.00	60.01	89.37	8,988.30	133.15	56.57	538,010.59	592,320.67	32.478945	-104.168000
9,200.00	70.01	89.37	9,030.49	134.15	147.09	538,011.59	592,411.19	32.478948	-104.167707
9,300.00	80.01	89.37	9,056.32	135.21	243.56	538,012.65	592,507.66	32.478950	-104.167394
9,399.88	90.00	89.37	9,065.00	136.30	342.92	538,013.74	592,607.03	32.478953	-104.167072
9,400.00	90.00	89.37	9,065.00	136.30	343.05	538,013.74	592,607.15	32.478953	-104.167071
9,500.00	90.00	89.37	9,065.00	137.40	443.04	538,014.84	592,707.15	32.478955	-104.166747
9,600.00	90.00	89.37	9,065.00	138.50	543.04	538,015.94	592,807.14	32.478958	-104.166423
9,700.00	90.00	89.37	9,065.00	139.60	643.03	538,017.04	592,907.13	32.478960	-104.166098
9,800.00	90.00	89.37	9,065.00	140.70	743.02	538,018.14	593,007.13	32.478963	-104.165774
9,900.00	90.00	89.37	9,065.00	141.80	843.02	538,019.24	593,107.12	32.478966	-104.165450
10,000.00	90.00	89.37	9,065.00	142.90	943.01	538,020.34	593,207.11	32.478968	-104.165126

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Lone Tree Draw_14-13 State Com 623H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3269.50ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3269.50ft
Site:	Sec 14-T21S-R27E	North Reference:	Grid
Well:	Lone Tree Draw_14-13 State Com 623H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 2		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,100.00	90.00	89.37	9,065.00	144.00	1,043.01	538,021.44	593,307.11	32.478971	-104.164801
10,200.00	90.00	89.37	9,065.00	145.10	1,143.00	538,022.54	593,407.10	32.478973	-104.164477
10,300.00	90.00	89.37	9,065.00	146.20	1,242.99	538,023.64	593,507.10	32.478976	-104.164153
10,400.00	90.00	89.37	9,065.00	147.30	1,342.99	538,024.74	593,607.09	32.478979	-104.163829
10,500.00	90.00	89.37	9,065.00	148.40	1,442.98	538,025.84	593,707.08	32.478981	-104.163504
10,600.00	90.00	89.37	9,065.00	149.50	1,542.98	538,026.94	593,807.08	32.478984	-104.163180
10,700.00	90.00	89.37	9,065.00	150.60	1,642.97	538,028.04	593,907.07	32.478986	-104.162856
10,800.00	90.00	89.37	9,065.00	151.70	1,742.96	538,029.14	594,007.06	32.478989	-104.162531
10,900.00	90.00	89.37	9,065.00	152.80	1,842.96	538,030.24	594,107.06	32.478992	-104.162207
11,000.00	90.00	89.37	9,065.00	153.90	1,942.95	538,031.34	594,207.05	32.478994	-104.161883
11,100.00	90.00	89.37	9,065.00	155.00	2,042.95	538,032.44	594,307.05	32.478997	-104.161559
11,200.00	90.00	89.37	9,065.00	156.10	2,142.94	538,033.54	594,407.04	32.478999	-104.161234
11,300.00	90.00	89.37	9,065.00	157.20	2,242.93	538,034.64	594,507.03	32.479002	-104.160910
11,400.00	90.00	89.37	9,065.00	158.30	2,342.93	538,035.74	594,607.03	32.479004	-104.160586
11,500.00	90.00	89.37	9,065.00	159.40	2,442.92	538,036.84	594,707.02	32.479007	-104.160262
11,600.00	90.00	89.37	9,065.00	160.50	2,542.92	538,037.94	594,807.01	32.479010	-104.159937
11,700.00	90.00	89.37	9,065.00	161.60	2,642.91	538,039.04	594,907.01	32.479012	-104.159613
11,800.00	90.00	89.37	9,065.00	162.70	2,742.90	538,040.14	595,007.00	32.479015	-104.159289
11,900.00	90.00	89.37	9,065.00	163.80	2,842.90	538,041.24	595,107.00	32.479017	-104.158964
12,000.00	90.00	89.37	9,065.00	164.90	2,942.89	538,042.34	595,206.99	32.479020	-104.158640
12,100.00	90.00	89.37	9,065.00	166.00	3,042.89	538,043.44	595,306.98	32.479022	-104.158316
12,200.00	90.00	89.37	9,065.00	167.10	3,142.88	538,044.54	595,406.98	32.479025	-104.157992
12,300.00	90.00	89.37	9,065.00	168.19	3,242.87	538,045.64	595,506.97	32.479028	-104.157667
12,400.00	90.00	89.37	9,065.00	169.29	3,342.87	538,046.74	595,606.96	32.479030	-104.157343
12,500.00	90.00	89.37	9,065.00	170.39	3,442.86	538,047.84	595,706.96	32.479033	-104.157019
12,600.00	90.00	89.37	9,065.00	171.49	3,542.86	538,048.94	595,806.95	32.479035	-104.156695
12,700.00	90.00	89.37	9,065.00	172.59	3,642.85	538,050.04	595,906.95	32.479038	-104.156370
12,800.00	90.00	89.37	9,065.00	173.69	3,742.84	538,051.14	596,006.94	32.479040	-104.156046
12,900.00	90.00	89.37	9,065.00	174.79	3,842.84	538,052.24	596,106.93	32.479043	-104.155722
13,000.00	90.00	89.37	9,065.00	175.89	3,942.83	538,053.33	596,206.93	32.479046	-104.155397
13,100.00	90.00	89.37	9,065.00	176.99	4,042.83	538,054.43	596,306.92	32.479048	-104.155073
13,200.00	90.00	89.37	9,065.00	178.09	4,142.82	538,055.53	596,406.91	32.479051	-104.154749
13,300.00	90.00	89.37	9,065.00	179.19	4,242.81	538,056.63	596,506.91	32.479053	-104.154425
13,400.00	90.00	89.37	9,065.00	180.29	4,342.81	538,057.73	596,606.90	32.479056	-104.154100
13,500.00	90.00	89.37	9,065.00	181.39	4,442.80	538,058.83	596,706.90	32.479058	-104.153776
13,600.00	90.00	89.37	9,065.00	182.49	4,542.79	538,059.93	596,806.89	32.479061	-104.153452
13,700.00	90.00	89.37	9,065.00	183.59	4,642.79	538,061.03	596,906.88	32.479063	-104.153127
13,800.00	90.00	89.37	9,065.00	184.69	4,742.78	538,062.13	597,006.88	32.479066	-104.152803
13,900.00	90.00	89.37	9,065.00	185.79	4,842.78	538,063.23	597,106.87	32.479069	-104.152479
14,000.00	90.00	89.37	9,065.00	186.89	4,942.77	538,064.33	597,206.86	32.479071	-104.152155
14,100.00	90.00	89.37	9,065.00	187.99	5,042.76	538,065.43	597,306.86	32.479074	-104.151830
Cross section @ 14100' MD, 2200' FSL, 0' FWL									
14,200.00	90.00	89.37	9,065.00	189.09	5,142.76	538,066.53	597,406.85	32.479076	-104.151506
14,300.00	90.00	89.37	9,065.00	190.19	5,242.75	538,067.63	597,506.85	32.479079	-104.151182
14,400.00	90.00	89.37	9,065.00	191.29	5,342.75	538,068.73	597,606.84	32.479081	-104.150858
14,500.00	90.00	89.37	9,065.00	192.39	5,442.74	538,069.83	597,706.83	32.479084	-104.150533
14,600.00	90.00	89.37	9,065.00	193.49	5,542.73	538,070.93	597,806.83	32.479086	-104.150209
14,700.00	90.00	89.37	9,065.00	194.59	5,642.73	538,072.03	597,906.82	32.479089	-104.149885
14,800.00	90.00	89.37	9,065.00	195.69	5,742.72	538,073.13	598,006.81	32.479092	-104.149560
14,900.00	90.00	89.37	9,065.00	196.79	5,842.72	538,074.23	598,106.81	32.479094	-104.149236
15,000.00	90.00	89.37	9,065.00	197.89	5,942.71	538,075.33	598,206.80	32.479097	-104.148912
15,100.00	90.00	89.37	9,065.00	198.99	6,042.70	538,076.43	598,306.80	32.479099	-104.148588
15,200.00	90.00	89.37	9,065.00	200.09	6,142.70	538,077.53	598,406.79	32.479102	-104.148263
15,300.00	90.00	89.37	9,065.00	201.19	6,242.69	538,078.63	598,506.78	32.479104	-104.147939

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Lone Tree Draw_14-13 State Com 623H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3269.50ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3269.50ft
Site:	Sec 14-T21S-R27E	North Reference:	Grid
Well:	Lone Tree Draw_14-13 State Com 623H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 2		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
15,400.00	90.00	89.37	9,065.00	202.29	6,342.69	538,079.73	598,606.78	32.479107	-104.147615
15,500.00	90.00	89.37	9,065.00	203.39	6,442.68	538,080.83	598,706.77	32.479109	-104.147291
15,600.00	90.00	89.37	9,065.00	204.49	6,542.67	538,081.93	598,806.76	32.479112	-104.146966
15,700.00	90.00	89.37	9,065.00	205.59	6,642.67	538,083.03	598,906.76	32.479114	-104.146642
15,800.00	90.00	89.37	9,065.00	206.69	6,742.66	538,084.13	599,006.75	32.479117	-104.146318
15,900.00	90.00	89.37	9,065.00	207.79	6,842.66	538,085.23	599,106.75	32.479120	-104.145993
16,000.00	90.00	89.37	9,065.00	208.89	6,942.65	538,086.33	599,206.74	32.479122	-104.145669
16,100.00	90.00	89.37	9,065.00	209.99	7,042.64	538,087.43	599,306.73	32.479125	-104.145345
16,200.00	90.00	89.37	9,065.00	211.08	7,142.64	538,088.53	599,406.73	32.479127	-104.145021
16,300.00	90.00	89.37	9,065.00	212.18	7,242.63	538,089.63	599,506.72	32.479130	-104.144696
16,400.00	90.00	89.37	9,065.00	213.28	7,342.63	538,090.73	599,606.71	32.479132	-104.144372
16,500.00	90.00	89.37	9,065.00	214.38	7,442.62	538,091.83	599,706.71	32.479135	-104.144048
16,600.00	90.00	89.37	9,065.00	215.48	7,542.61	538,092.93	599,806.70	32.479137	-104.143724
16,700.00	90.00	89.37	9,065.00	216.58	7,642.61	538,094.03	599,906.70	32.479140	-104.143399
16,800.00	90.00	89.37	9,065.00	217.68	7,742.60	538,095.12	600,006.69	32.479142	-104.143075
16,900.00	90.00	89.37	9,065.00	218.78	7,842.60	538,096.22	600,106.68	32.479145	-104.142751
17,000.00	90.00	89.37	9,065.00	219.88	7,942.59	538,097.32	600,206.68	32.479147	-104.142426
17,100.00	90.00	89.37	9,065.00	220.98	8,042.58	538,098.42	600,306.67	32.479150	-104.142102
17,200.00	90.00	89.37	9,065.00	222.08	8,142.58	538,099.52	600,406.66	32.479153	-104.141778
17,300.00	90.00	89.37	9,065.00	223.18	8,242.57	538,100.62	600,506.66	32.479155	-104.141454
17,400.00	90.00	89.37	9,065.00	224.28	8,342.57	538,101.72	600,606.65	32.479158	-104.141129
17,500.00	90.00	89.37	9,065.00	225.38	8,442.56	538,102.82	600,706.65	32.479160	-104.140805
17,600.00	90.00	89.37	9,065.00	226.48	8,542.55	538,103.92	600,806.64	32.479163	-104.140481
17,700.00	90.00	89.37	9,065.00	227.58	8,642.55	538,105.02	600,906.63	32.479165	-104.140156
17,800.00	90.00	89.37	9,065.00	228.68	8,742.54	538,106.12	601,006.63	32.479168	-104.139832
17,900.00	90.00	89.37	9,065.00	229.78	8,842.53	538,107.22	601,106.62	32.479170	-104.139508
18,000.00	90.00	89.37	9,065.00	230.88	8,942.53	538,108.32	601,206.61	32.479173	-104.139184
18,100.00	90.00	89.37	9,065.00	231.98	9,042.52	538,109.42	601,306.61	32.479175	-104.138859
18,200.00	90.00	89.37	9,065.00	233.08	9,142.52	538,110.52	601,406.60	32.479178	-104.138535
18,300.00	90.00	89.37	9,065.00	234.18	9,242.51	538,111.62	601,506.60	32.479180	-104.138211
18,400.00	90.00	89.37	9,065.00	235.28	9,342.50	538,112.72	601,606.59	32.479183	-104.137887
18,500.00	90.00	89.37	9,065.00	236.38	9,442.50	538,113.82	601,706.58	32.479185	-104.137562
18,600.00	90.00	89.37	9,065.00	237.48	9,542.49	538,114.92	601,806.58	32.479188	-104.137238
18,700.00	90.00	89.37	9,065.00	238.58	9,642.49	538,116.02	601,906.57	32.479190	-104.136914
18,800.00	90.00	89.37	9,065.00	239.68	9,742.48	538,117.12	602,006.56	32.479193	-104.136589
18,900.00	90.00	89.37	9,065.00	240.78	9,842.47	538,118.22	602,106.56	32.479195	-104.136265
19,000.00	90.00	89.37	9,065.00	241.88	9,942.47	538,119.32	602,206.55	32.479198	-104.135941
19,100.00	90.00	89.37	9,065.00	242.98	10,042.46	538,120.42	602,306.55	32.479200	-104.135617
19,200.00	90.00	89.37	9,065.00	244.08	10,142.46	538,121.52	602,406.54	32.479203	-104.135292
19,300.00	90.00	89.37	9,065.00	245.18	10,242.45	538,122.62	602,506.53	32.479205	-104.134968
19,368.00	90.00	89.37	9,065.00	245.92	10,310.45	538,123.37	602,574.53	32.479207	-104.134748
LTP @ 19368' MD, 2200' FSL, 100' FEL									
19,400.00	90.00	89.37	9,065.00	246.28	10,342.44	538,123.72	602,606.53	32.479208	-104.134644
19,447.62	90.00	89.37	9,065.00	246.80	10,390.06	538,124.24	602,654.14	32.479209	-104.134489
PBHL; 2200' FSL, 20' FEL									
19,447.63	90.00	89.37	9,065.00	246.80	10,390.07	538,124.24	602,654.15	32.479209	-104.134489

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Lone Tree Draw_14-13 State Com 623H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3269.50ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3269.50ft
Site:	Sec 14-T21S-R27E	North Reference:	Grid
Well:	Lone Tree Draw_14-13 State Com 623H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 2		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
PBH2L - Lone Tree Draw	0.00	0.00	0.00	246.80	10,390.07	538,124.24	602,654.15	32.479209	-104.134489
- plan misses target center by 9065.00ft at 19447.63ft MD (9065.00 TVD, 246.80 N, 10390.07 E)									
- Point									

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
8,499.87	8,492.04	130.00	-230.00	KOP @ 8500' MD, 2200' FSL, 50' FWL
8,741.00	8,726.11	130.55	-180.01	FTP @ 8741' MD, 2200' FSL, 100' FWL
14,100.00	9,065.00	187.99	5,042.76	Cross section @ 14100' MD, 2200' FSL, 0' FWL
19,368.00	9,065.00	245.92	10,310.45	LTP @ 19368' MD, 2200' FSL, 100' FEL
19,447.62	9,065.00	246.80	10,390.06	PBHL; 2200' FSL, 20' FEL

WCDSC Permian NM

WELL DETAILS: Lone Tree Draw_14-13 State Com 623H

RKB @ 3269.50ft

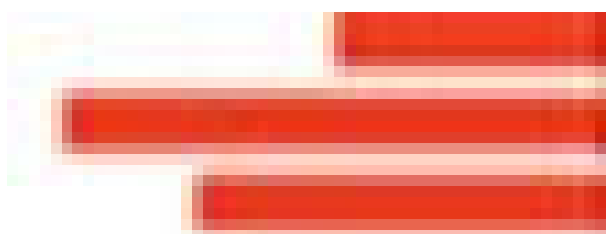
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Northing
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Easting
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Latitude
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Longitude
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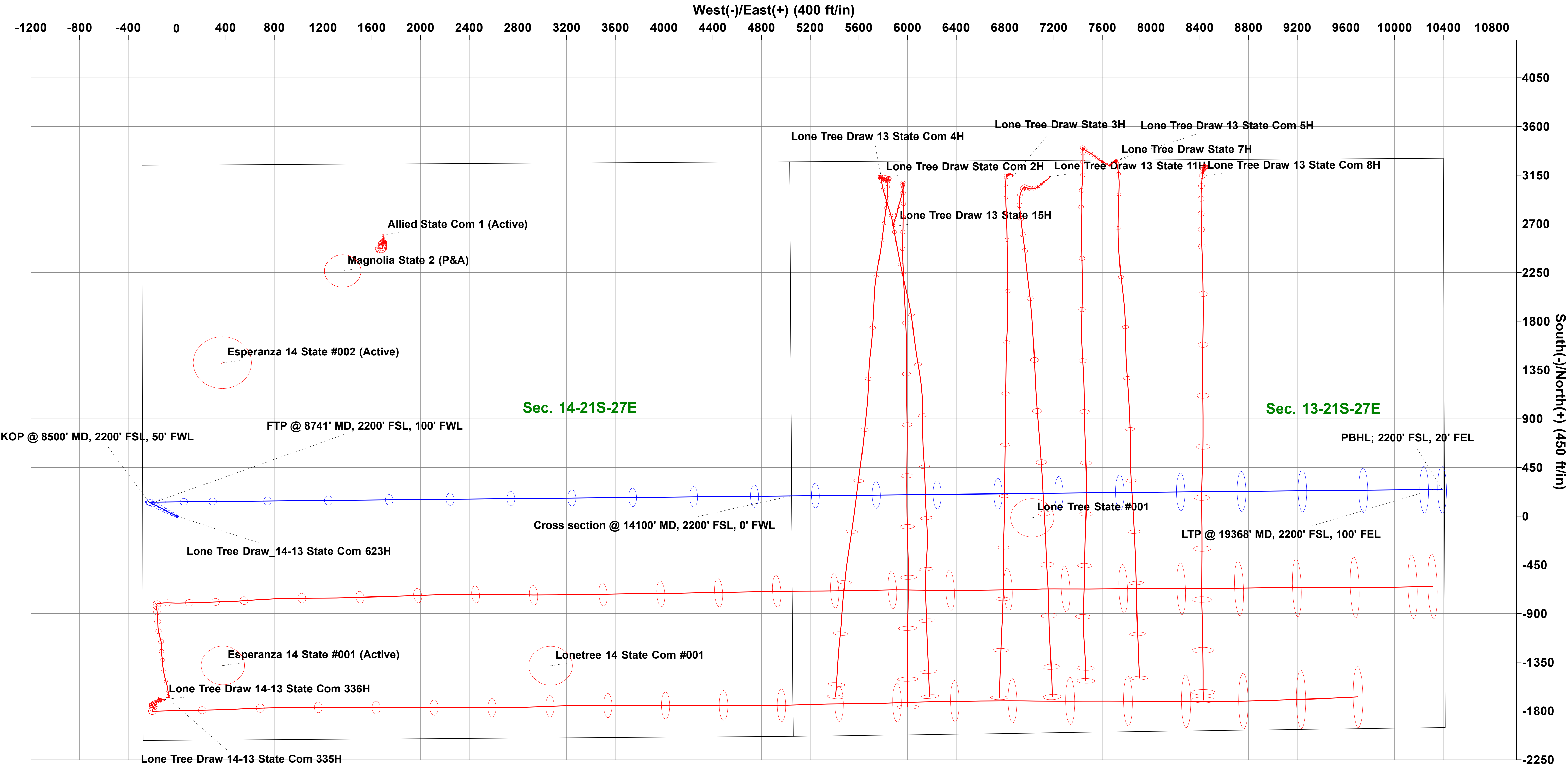
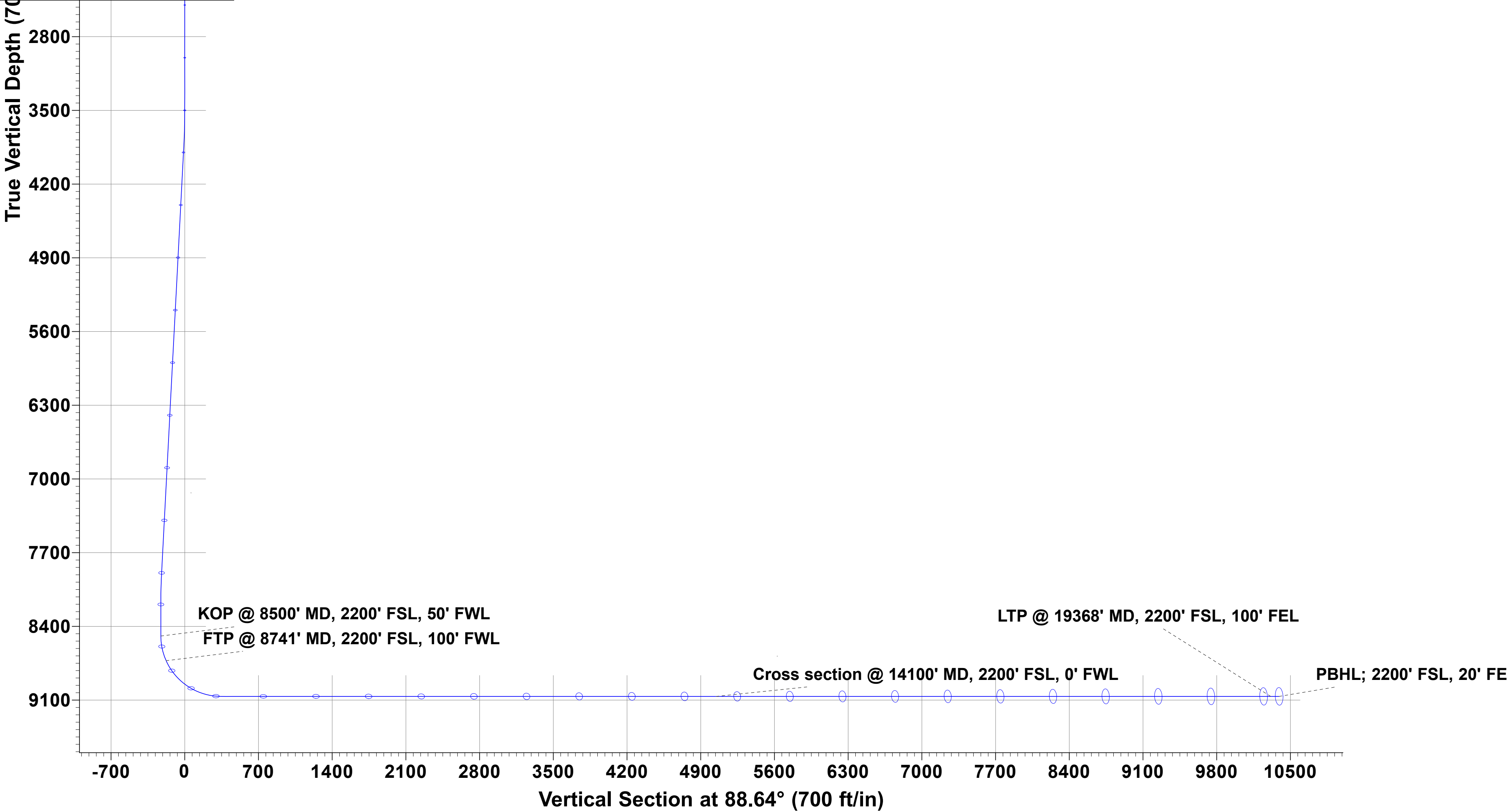
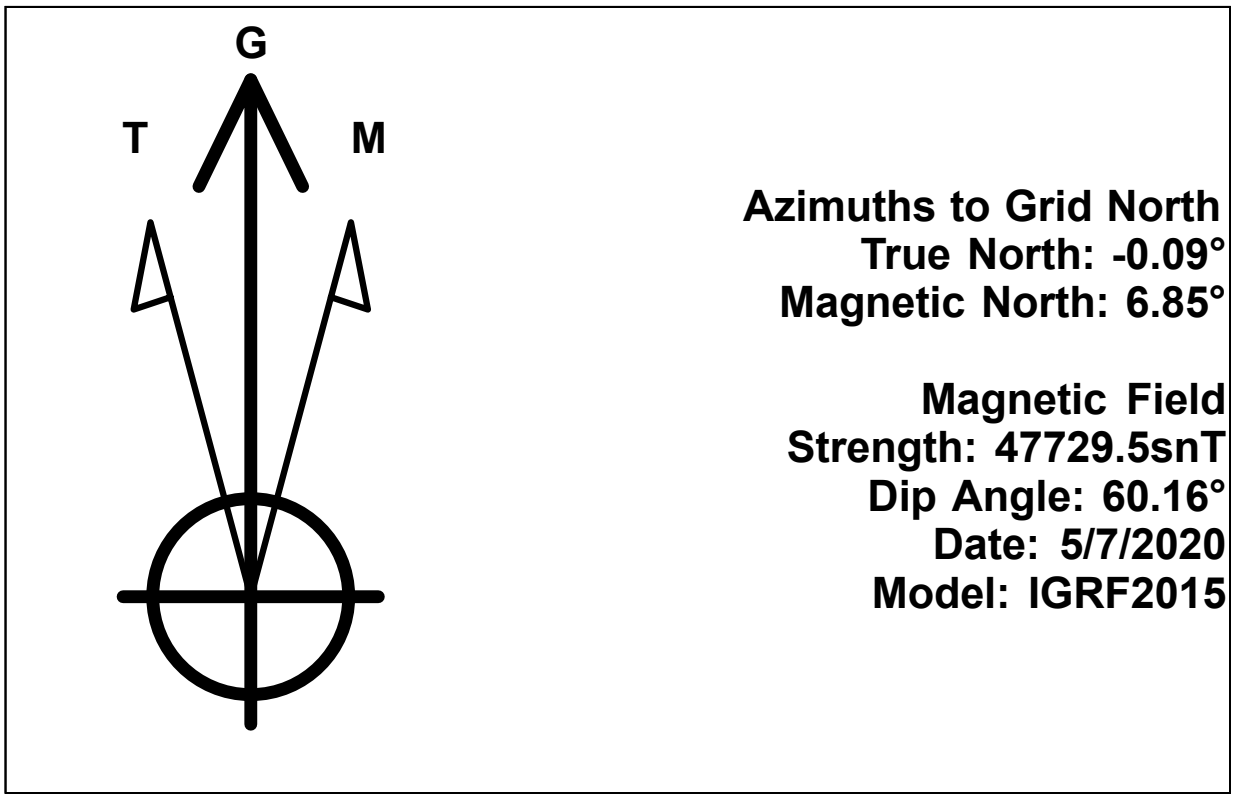


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SECTION DETAILS

Permit Plan 2

	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect	Annotation
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	
	3847.36	3.47	299.48	3847.15	5.18	-9.16	1.00	-9.04	
	7918.26	3.47	299.48	7910.57	126.55	-223.89	0.00	-220.82	
5	8149.83	0.00	0.00	8142.00	130.00	-230.00	1.50	-226.85	
6	8499.87	0.00	0.00	8492.04	130.00	-230.00	0.00	-226.85	KOP @ 8500' MD, 2200' FSL, 50' FWL
7	9399.88	90.00	89.37	9065.00	136.30	342.92	10.00	346.06	
8	19447.63	90.00	89.37	9065.00	246.80	10390.07	0.00	10393.00	PBHL; 2200' FSL, 20' FEL





**Devon Energy Center
333 West Sheridan Avenue
Oklahoma City, Oklahoma 73102-5015**

Hydrogen Sulfide (H₂S) Contingency Plan

For

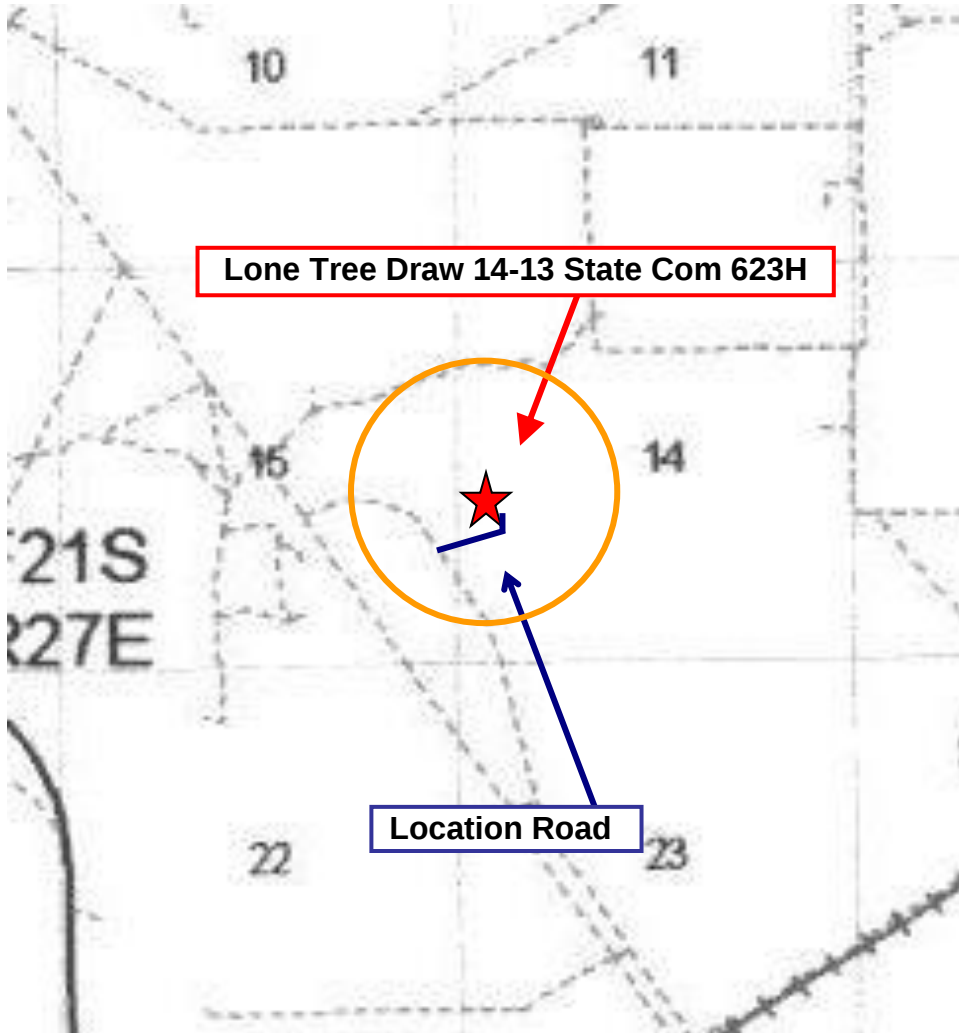
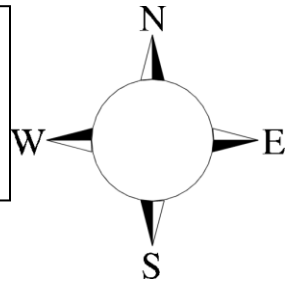
Lone Tree Draw 14-13 State Com 623H

**Sec-14 T-21S R-27E
2070 FSL & 280' FWL
LAT. = 32.4785794' N (NAD83)
LONG = 104.1681842' W**

Eddy County NM

Lone Tree Draw 14-13 State Com 623H

This is an open drilling site. H₂S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H₂S, including warning signs, wind indicators and H₂S monitor.



Assumed 100 ppm **ROE = 3000'** (**Radius of Exposure**)
100 ppm H₂S concentration shall trigger activation of this plan.

Escape

Crews shall escape upwind of escaping gas in the event of an emergency release of gas. Escape can be facilitated from the location entrance road. Crews should then block the entrance to the location from the lease road so as not to allow anyone traversing into a hazardous area. The blockade should be at a safe distance outside of the ROE. There are no homes or buildings in or near the ROE.

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the “buddy system” to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
 - Detection of H₂S, and
 - Measures for protection against the gas,
 - Equipment used for protection and emergency response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

Characteristics of H₂S and SO₂

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = 1	2 ppm	N/A	1000 ppm

Contacting Authorities

Devon Energy Corp. personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. Devon Energy Corp. Company response must be in coordination with the State of New Mexico’s ‘Hazardous Materials Emergency Response Plan’ (HMER)

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE (H₂S) 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 (H₂S)
2. The proper use and maintenance of personal protective equipment and life support systems.
3. The proper use of H₂S 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 H₂S metal components. If high tensile tubulars 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 H₂S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan.

II. HYDROGEN SULFIDE TRAINING

Note: All H₂S 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 reasonably expected to contain H₂S.

1. Well Control Equipment

- A. Flare line
- B. Choke manifold – Remotely Operated
- 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 and rotating head.
- E. Mud/Gas Separator

2. Protective equipment for essential personnel:

30-minute SCBA units located at briefing areas, as indicated on well site diagram, with escape units available in the top doghouse. As it may be difficult to communicate audibly while wearing these units, hand signals shall be utilized.

3. H₂S detection and monitoring equipment:

Portable H₂S monitors positioned on location for best coverage and response. These units have warning lights which activate when H₂S levels reach 10 ppm and audible sirens which activate at 15 ppm. Sensor locations:

- Bell nipple
- Possum Belly/Shale shaker
- Rig floor
- Choke manifold
- Cellar

Visual warning systems:

- A. Wind direction indicators as shown on well site diagram
- B. Caution/ Danger signs shall be posted on roads providing direct access to locations. Signs will be painted a high visibility yellow with black lettering of sufficient size to be reasonable distance from the immediate location. Bilingual signs will be used when appropriate.

4. Mud program:

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.

5. Metallurgy:

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

6. Communication:

- A. Company personnel have/use cellular telephones in the field.
- B. Land line (telephone) communications at Office

7. Well testing:

- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safety 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.
- B. There will be no drill stem testing.

<u>Devon Energy Corp. Company Call List</u>		
Drilling Supervisor – Basin – Mark Kramer		405-823-4796
EHS Professional – Laura Wright		405-439-8129
<u>Agency Call List</u>		
<u>Lea County (575)</u>	Hobbs	
	Lea County Communication Authority	393-3981
	State Police	392-5588
	City Police	397-9265
	Sheriff's Office	393-2515
	Ambulance	911
	Fire Department	397-9308
	LEPC (Local Emergency Planning Committee)	393-2870
	NMOCD	393-6161
	US Bureau of Land Management	393-3612
<u>Eddy County (575)</u>	Carlsbad	
	State Police	885-3137
	City Police	885-2111
	Sheriff's Office	887-7551
	Ambulance	911
	Fire Department	885-3125
	LEPC (Local Emergency Planning Committee)	887-3798
	US Bureau of Land Management	887-6544
	NM Emergency Response Commission (Santa Fe)	(505) 476-9600
	24 HR	(505) 827-9126
	National Emergency Response Center	(800) 424-8802
	National Pollution Control Center: Direct	(703) 872-6000
	For Oil Spills	(800) 280-7118
	Emergency Services	
	Wild Well Control	(281) 784-4700
	Cudd Pressure Control	(915) 699-0139 (915) 563-3356
	Halliburton	(575) 746-2757
	B. J. Services	(575) 746-3569
<u>Give GPS position:</u>	Native Air – Emergency Helicopter – Hobbs (TX & NM)	(800) 642-7828
	Flight For Life - Lubbock, TX	(806) 743-9911
	Aerocare - Lubbock, TX	(806) 747-8923
	Med Flight Air Amb - Albuquerque, NM	(575) 842-4433
	Lifeguard Air Med Svc. Albuquerque, NM	(800) 222-1222
	Poison Control (24/7)	(575) 272-3115
	Oil & Gas Pipeline 24 Hour Service	(800) 364-4366
	NOAA – Website - www.nhc.noaa.gov	

Prepared in conjunction with
Dave Small



Devon Energy - Well Pad Rig Location Layout Safety Equipment Location

