Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

Form C-101
August 1, 2011

Permit 389245

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

1. Operator Name and Address	2. OGRID Number
MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	13837
	3. API Number 30-015-56932

4. Property Code	5. Property Name	6. Well No.
337372	DEVILS TOWER STATE COM	002H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
N	36	16S	31E	N	990	S	1890	W	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
P	31	16S	32E	P	990	S	1	E	Lea

9. Pool Information

FREN; GLORIETA-YESO	26770

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	4074
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date
N	14183	Blinebry		9/1/2025
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ **We will be using a closed-loop system in lieu of lined pits**

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	825	855	0
Int1	12.25	9.625	36	2200	580	0
Prod	8.75	7	26	6050	280	0
Prod	8.75	5.5	17	14183	2800	0

Casing/Cement Program: Additional Comments

Mack Energy Corporation proposed to drill 17 1/2" hole to 825', run 13 3/8" csg/cmt. Drill 12 1/4" hole to 2,200, run 9 5/8" cs/cmt. Drill 8 3/4" hole to 14,183', run 7" csg 0-2,200, run 5 1/2" csg 2,200'-14,183' and cmt. Put well on production.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000	3000	

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

Signature:

Printed Name:	Electronically filed by Jerry Sherrell	Approved By:	Jeffrey Harrison
Title:	Regulatory Supervisor	Title:	Petroleum Specialist III
Email Address:	jerrys@mec.com	Approved Date:	7/1/2025
Date:	5/14/2025	Phone: 575-748-1288	Conditions of Approval Attached

OIL CONSERVATION DIVISION

Expiration Date: 7/1/2027

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024 Submittal Type: ☒ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name	
30-015-56932	26770	Fren; Glorieta - Yeso	
Property Code: 337372	Property Name: DEVILS TOWER STATE COM		Well Number: 002H
OGRID No.: 13837	Operator Name: MACK ENERGY CORPORATION		Ground Level Elevation: 4073.6
Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal	

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	36	16 S	31 E		990 SOUTH	1890 WEST	32.8736672°N	103.8255784°W	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	31	16 S	32 E		990 SOUTH	1 EAST	32.8736708°N	103.7972736°W	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
~~240~~ 240.65	Difining	N/A	Y	N/A
Order Numbers. N/A		Well setbacks are under Common Ownership: ☒ Yes ☐ No		

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	36	16 S	31 E		990 SOUTH	1890 WEST	32.8736672°N	103.8255784°W	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	36	16 S	31 E		990 SOUTH	2540 EAST	32.8736730°N	103.8228053°W	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	31	16 S	32 E		990 SOUTH	100 EAST	32.8736711°N	103.7975960°W	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☐ Horizontal ☐ Vertical	Ground Floor Elevation:

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best ofmy knowledge and belief, and, if the well is a vertical or directional well, 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 a working interest run leased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order here to fore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Delilah Flores — 6/27/2025

Signature — Date

Delilah Flores

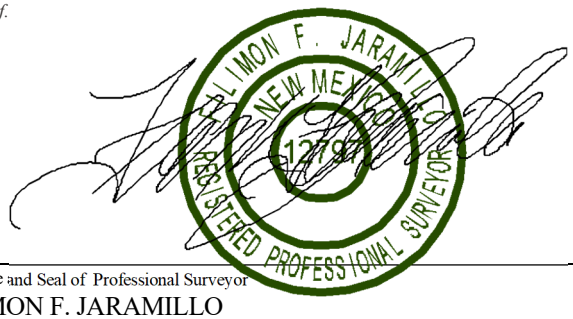
Printed Name

delilah@mec.com

Email Address

SURVEYOR CERTIFICATIONS

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.



Signature and Seal of Professional Surveyor

FILIMON F. JARAMILLO

CertificateNumber	Dateof Survey
PLS 12797	JUNE 26, 2025 SURVEY NO. 10406A

Note: 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.

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

DEVILS TOWER STATE COM 2H

EL. = 4073.6

GEODETIC COORDINATES
NAD 83 NMSP EAST

SURFACE LOCATION
990' FSL, 1890' FWL
N.=681948.73
E.=697225.57
LAT.=32.8736672°N
LONG.=103.8255784°W

LAST TAKE POINT
990' FSL, 100' FEL
N.=681992.59
E.=705816.66
LAT.=32.8736711°N
LONG.=103.7975960°W

KICK OFF POINT
990' FSL, 1890' FWL
N.=681948.73
E.=697225.57
LAT.=32.8736672°N
LONG.=103.8255784°W

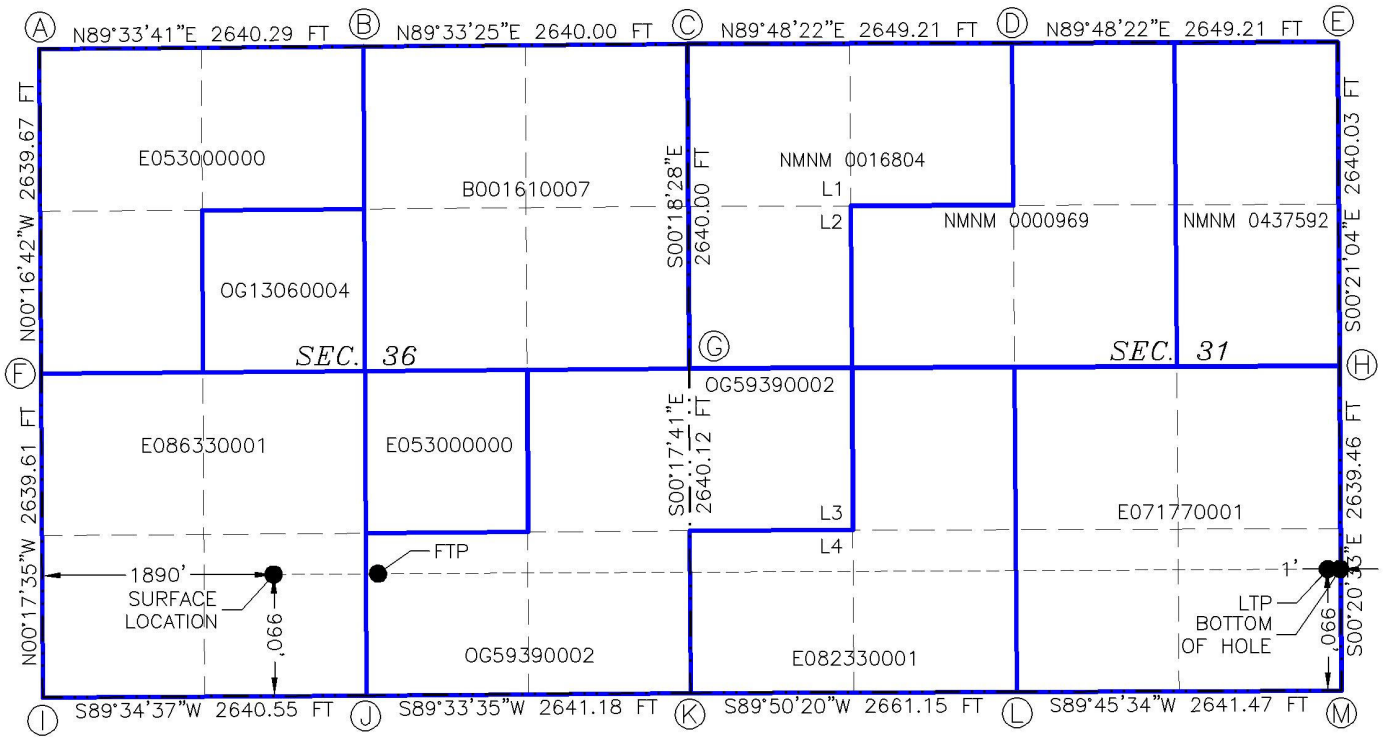
BOTTOM OF HOLE
990' FSL, 1' FEL
N.=681993.00
E.=705915.64
LAT.=32.8736708°N
LONG.=103.7972736°W

FIRST TAKE POINT
990' FSL, 2540' FEL
N.=681954.93
E.=698076.96
LAT.=32.8736730°N
LONG.=103.8228053°W

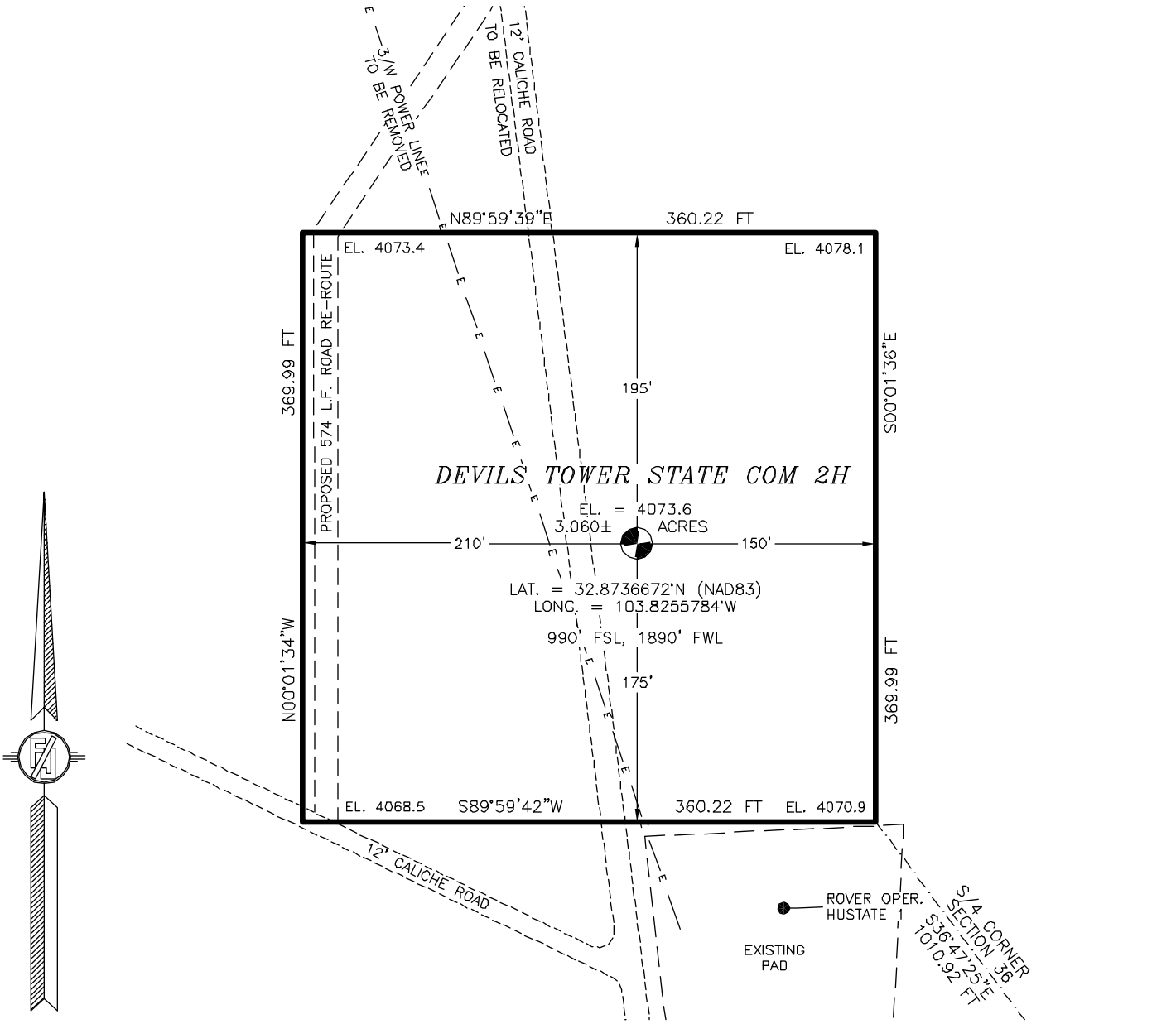
CORNER COORDINATES TABLE
NAD 83 NMSP EAST

A	N.=686222.78	E.=695314.79
B	N.=686242.99	E.=697954.33
C	N.=686263.39	E.=700593.57
D	N.=686272.35	E.=703242.09
E	N.=686281.32	E.=705890.61
F	N.=683583.81	E.=695327.61
G	N.=683624.11	E.=700607.75
H	N.=683642.01	E.=705906.78
I	N.=680944.92	E.=695341.10
J	N.=680964.41	E.=697980.90
K	N.=680984.70	E.=700621.32
L	N.=680992.19	E.=703281.78
M	N.=681003.27	E.=705922.55

LEGEND
SECTION LINE
QUARTER LINE
LEASE LINE
WELL PATH



DEVILS TOWER STATE COM 2H
MACK ENERGY CORPORATION
IN THE N/4 SE/4 SW/4 OF
SECTION 31, TOWNSHIP 16 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
JUNE 26, 2025



SEE NEXT SHEET (2–7) FOR DESCRIPTION

010 50 100 200
SCALE 1" = 100'

GENERAL NOTES

1.) THE INTENT OF THIS SURVEY IS TO ACQUIRE A BUSINESS LEASE FOR THE PURPOSE OF BUILDING A WELL PAD

2.) BASIS OF BEARING IS NEW MEXICO STATE PLANE EAST ZONE MODIFIED TO THE SURFACE (NAD83), COORDINATES ARE NAD 83, ELEVATIONS ARE NAVD 88

DRIVING DIRECTIONS: FROM THE INTERSECTION OF ST. HWY. 82 (MM 144) & SUPEE ROAD, GO NORTHWEST ON SUPEE ROAD APPROX 1.7 MILES, CONTINUE WEST ON CO. RD. RD 252 (EAST SQUARE LAKE) APPROX. 0.7 MILES, TURN RIGHT (NORTH) ON 15' CALICHE ROAD AND GO APPROX. 0.1 MILES TO THE SOUTHWEST PAD CORNER FOR THIS LOCATION.

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 26TH DAY OF JUNE 2025

FILIMON F. JARAMILLO PLS 12797
301 SOUTH CANAL
(575) 234-3327

FILIMON F. JARAMILLO NEW MEXICO 12797 REGISTERED PROFESSIONAL SURVEYOR

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

SHEET: 1–7

SURVEY NO. 10406A

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

DEVILS TOWER STATE COM 2H
MACK ENERGY CORPORATION
IN THE N/4 SE/4 SW/4 OF
SECTION 31, TOWNSHIP 16 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
JUNE 26, 2025

DESCRIPTION

A CERTAIN PIECE OR PARCEL OF LAND AND REAL ESTATE LYING IN STATE OF NEW MEXICO LAND IN THE N/4 SE/4 SW/4 OF SECTION 31, TOWNSHIP 16 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

BEGINNING AT THE SOUTHEAST CORNER OF THE PARCEL, WHENCE THE SOUTH QUARTER CORNER OF SECTION 31, TOWNSHIP 16 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS S36°47'25"E, A DISTANCE OF 1010.92 FEET;
THENCE S89°59'42"W A DISTANCE OF 360.22 FEET TO THE SOUTHWEST CORNER OF THE PARCEL;
THENCE N00°01'34"W A DISTANCE OF 369.99 FEET TO THE NORTHWEST CORNER OF THE PARCEL;
THENCE N89°59'39"E A DISTANCE OF 360.22 FEET TO THE NORTHEAST CORNER OF THE PARCEL;
THENCE S00°01'36"E A DISTANCE OF 369.99 FEET TO THE SOUTHEAST CORNER OF THE PARCEL, THE POINT OF BEGINNING;
CONTAINING 3.060 ACRES MORE OR LESS.

GENERAL NOTES

1.) THE INTENT OF THIS SURVEY IS TO ACQUIRE A BUSINESS LEASE FOR THE PURPOSE OF BUILDING A WELL PAD

2.) BASIS OF BEARING IS NEW MEXICO STATE PLANE EAST ZONE MODIFIED TO THE SURFACE (NAD83), COORDINATES ARE NAD 83, ELEVATIONS ARE NAVD 88

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.

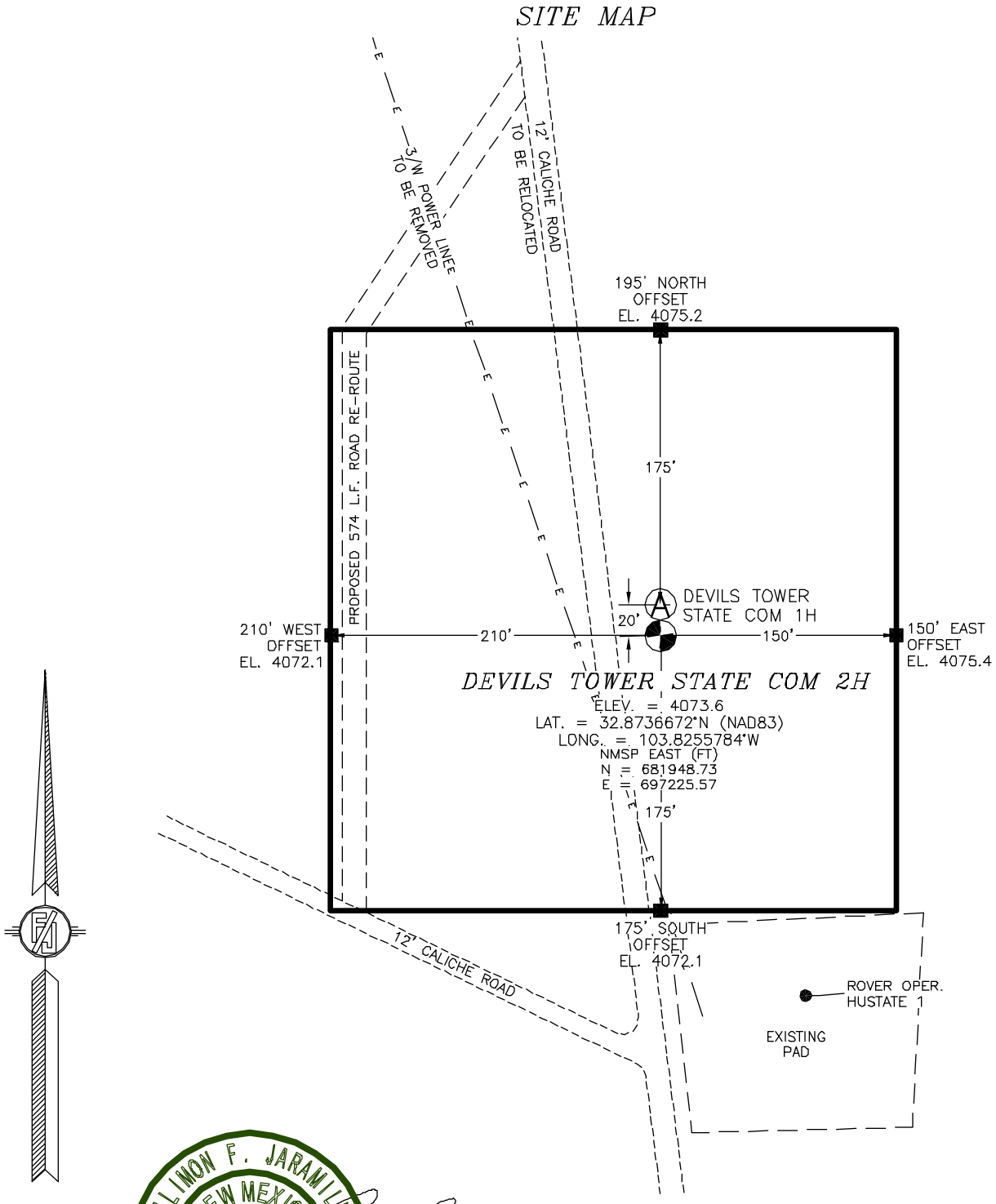
IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 26TH DAY OF JUNE 2025

FILIMON F. JARAMILLO PLS 12797

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

DEVILS TOWER STATE COM 2H
MACK ENERGY CORPORATION
IN THE N/4 SE/4 SW/4 OF
SECTION 31, TOWNSHIP 16 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
JUNE 26, 2025

SITE MAP



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

FILIMON F. JARAMILLO, PLS 17078

FILIMON F. JARAMILLO — NEW MEXICO — 17078 — REGISTERED PROFESSIONAL SURVEYOR

010 50 100 200
SCALE 1" = 100'

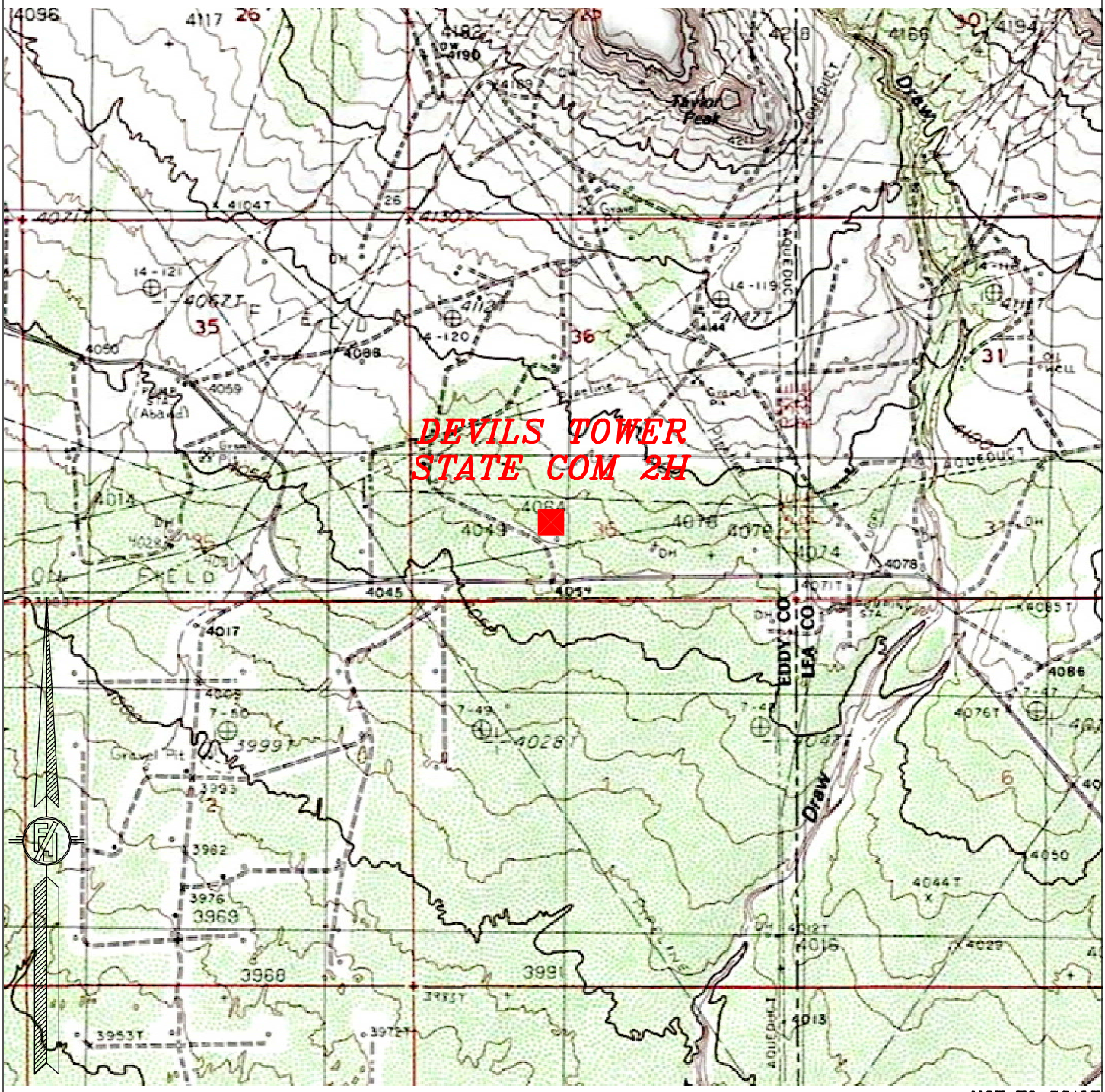
SHEET: 3

SURVEY NO. 10406A

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

DEVILS TOWER STATE COM 2H
MACK ENERGY CORPORATION
IN THE N/4 SE/4 SW/4 OF
SECTION 31, TOWNSHIP 16 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
JUNE 26, 2025

LOCATION VERIFICATION MAP



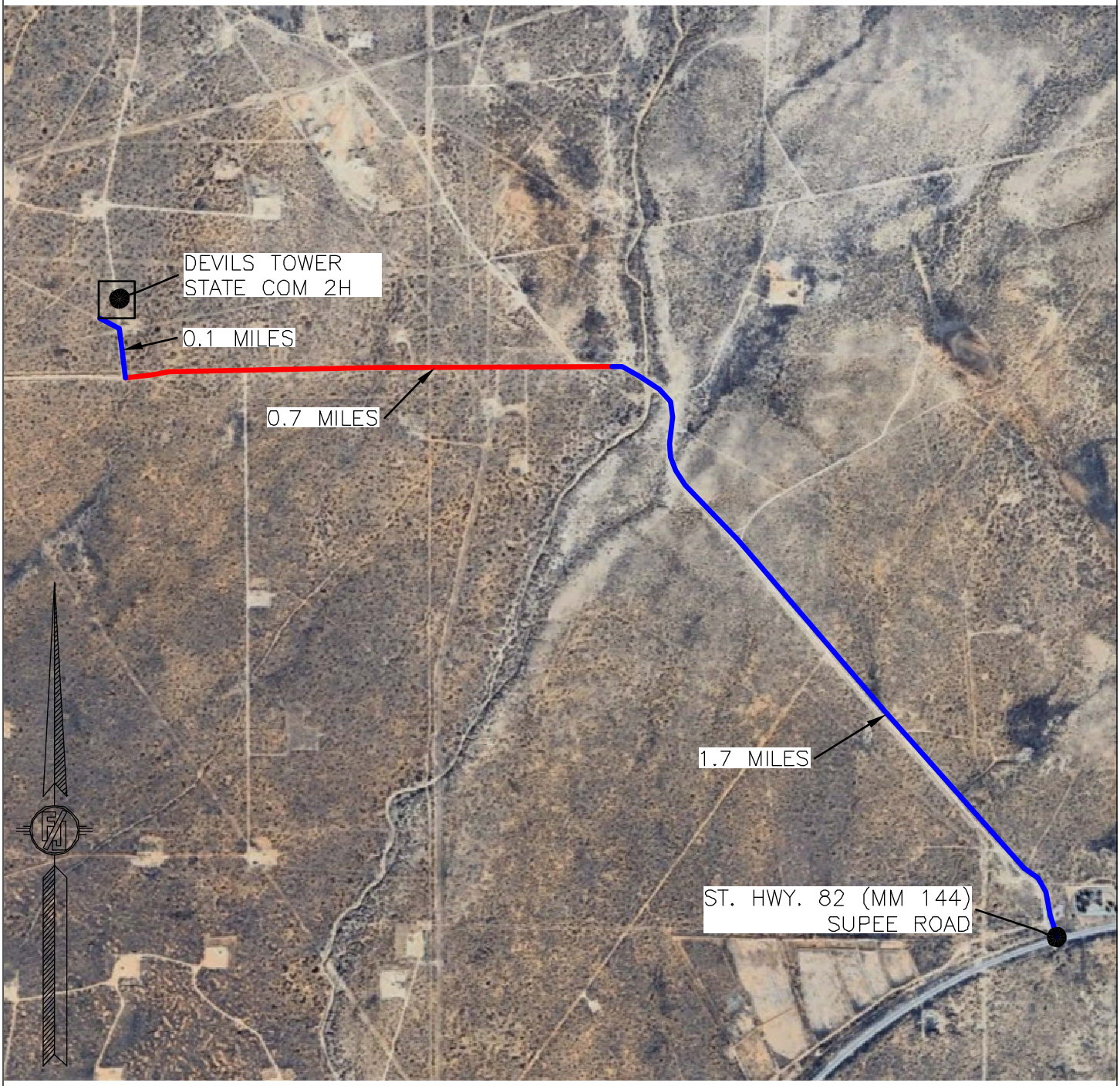
NOT TO SCALE

SHEET: 4-7 SURVEY NO. 10406A

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

DEVILS TOWER STATE COM 2H
MACK ENERGY CORPORATION
IN THE N/4 SE/4 SW/4 OF
SECTION 31, TOWNSHIP 16 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
JUNE 26, 2025

AERIAL ACCESS ROUTE MAP



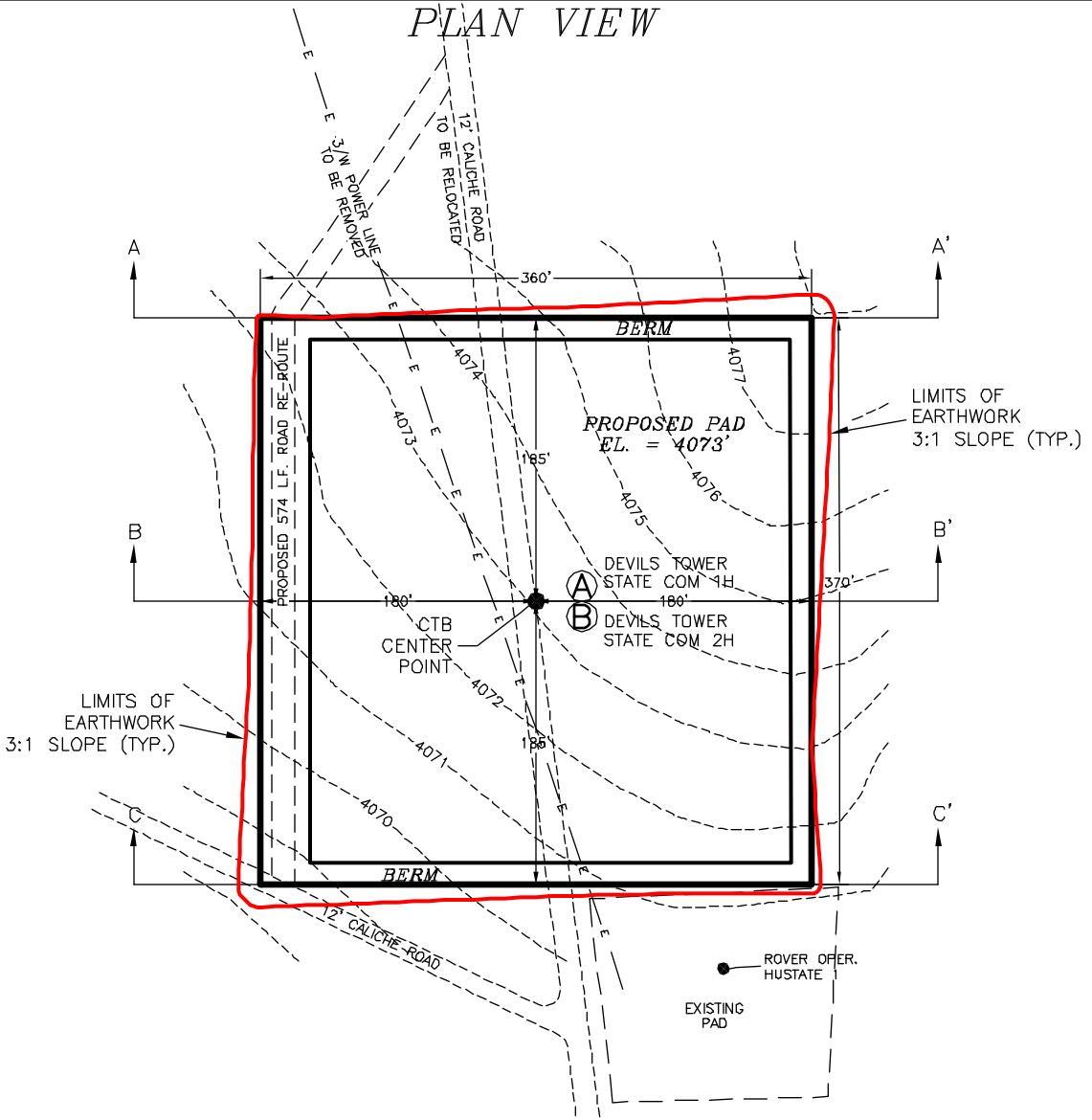
NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH

DRIVING DIRECTIONS: FROM THE INTERSECTION OF ST. HWY. 82 (MM 144) & SUPEE ROAD, GO NORTHWEST ON SUPEE ROAD APPROX 1.7 MILES, CONTINUE WEST ON CO. RO. RD 252 (EAST SQUARE LAKE) APPROX. 0.7 MILES, TURN RIGHT (NORTH) ON 15' CALICHE ROAD AND GO APPROX. 0.1 MILES TO THE SOUTHWEST PAD CORNER FOR THIS LOCATION.

SHEET: 5-7 SURVEY NO. 10406A

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

PLAN VIEW



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

FILIMON F. JARAMILLO, NMPS 12797

FILIMON F. JARAMILLO 12797 REGISTERED PROFESSIONAL SURVEYOR

MACK ENERGY CORPORATION
PAD ELEVATIONS AND CROSS SECTIONS
FOR DEVILS TOWER STATE COM 2H
SECTION 36, TOWNSHIP 16 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

JUNE 26, 2025

012 60 120 240
SCALE 1" = 120'

CUT	FILL	NET
3648 CU. YD	5175 CU. YD	1527 CU. YD (FILL)

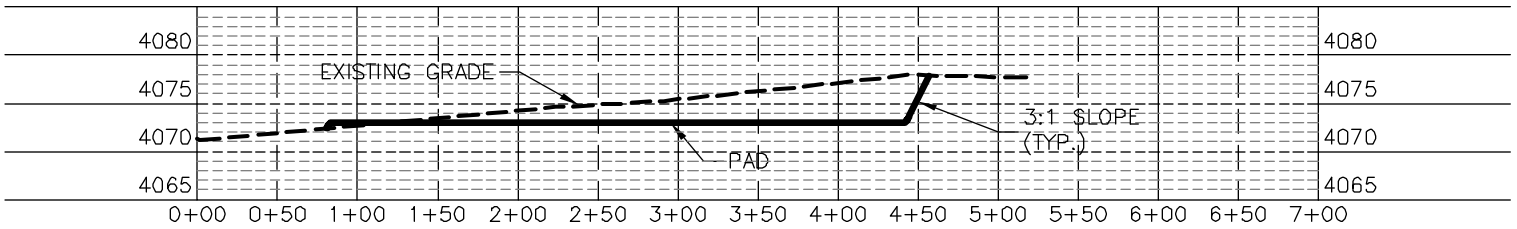
EARTHWORK QUANTITIES ARE ESTIMATED

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

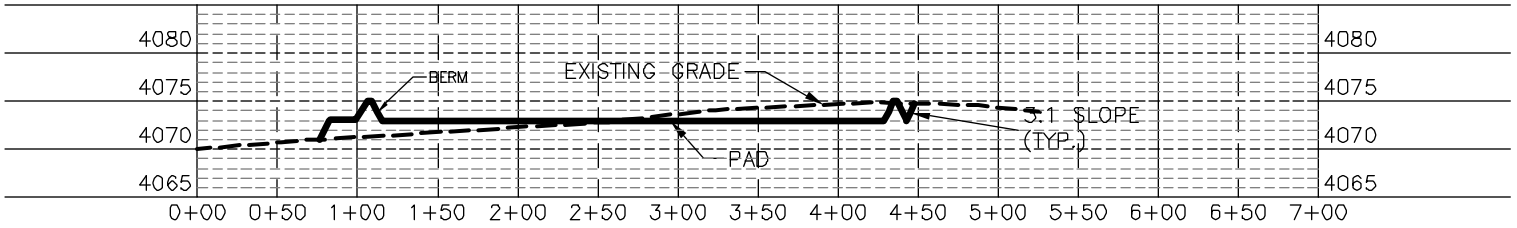
SHEET 6-7
SURVEY NO. 10406A

CROSS-SECTIONS

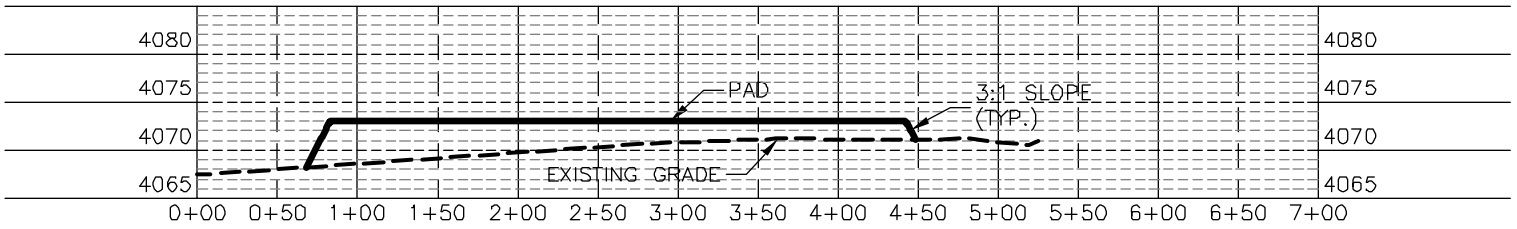
SECTION A-A'



SECTION B-B'



SECTION C-C'



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

FILIMON F. JARAMILLO, NMPS 12797

FILIMON F. JARAMILLO 12797 REGISTERED PROFESSIONAL SURVEYOR

MACK ENERGY CORPORATION
PAD ELEVATIONS AND CROSS SECTIONS
FOR DEVILS TOWER STATE COM 2H
SECTION 36, TOWNSHIP 16 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

JUNE 26, 2025

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

CUT	FILL	NET
3648 CU. YD	5175 CU. YD	1527 CU. YD (FILL)

EARTHWORK QUANTITIES ARE ESTIMATED

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

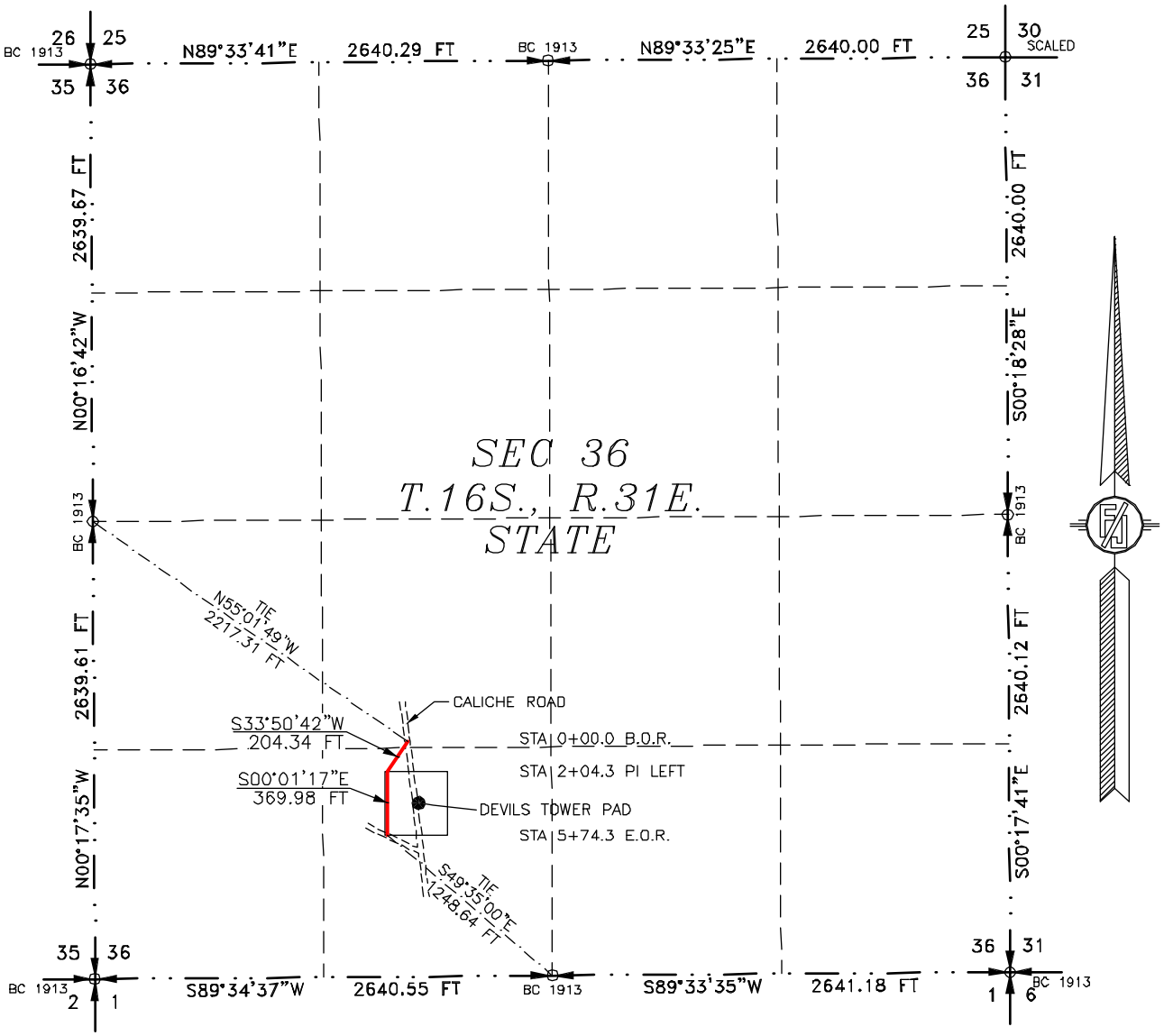
SHEET 7-7
SURVEY NO. 10406A

ACCESS ROAD PLAT

RE-ROUTE EXISTING ROAD AROUND DEVILS TOWER STATE COM 1H & 2H

MACK ENERGY CORPORATION

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 36, TOWNSHIP 16 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
JUNE 26, 2025



SEE NEXT SHEET (2-2) FOR DESCRIPTION

1000 0 1000
Scale: 1" = 1000'

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 26TH DAY OF JUNE 2025

FILIMON F. JARAMILLO PLS 12797

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

SHEET: 1-2

SURVEY NO. 10406A

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

ACCESS ROAD PLAT

RE-ROUTE EXISTING ROAD AROUND DEVILS TOWER STATE COM 1H & 2H

MACK ENERGY CORPORATION

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 36, TOWNSHIP 16 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
JUNE 26, 2025

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 36, TOWNSHIP 16 SOUTH, RANGE 31 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 SW/4 OF SAID SECTION 36, TOWNSHIP 16 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE WEST QUARTER CORNER OF SAID SECTION 36, TOWNSHIP 16 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N55°01'49"W, A DISTANCE OF 2217.31 FEET;
THENCE S33°50'42"W A DISTANCE OF 204.34 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S00°01'17"E A DISTANCE OF 369.98 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTH QUARTER CORNER OF SAID SECTION 36, TOWNSHIP 16 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS S49°35'00"E, A DISTANCE OF 1248.64 FEET;

SAID STRIP OF LAND BEING 574.32 FEET OR 34.81 RODS IN LENGTH, CONTAINING 0.396 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NE/4 SW/4	42.63 L.F.	2.58 RODS	0.029 ACRES
SE/4 SW/4	531.69 L.F.	32.23 RODS	0.367 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 26 DAY OF JUNE 2025

FILIMON F. JARAMILLO PLS 12797

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

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

Form APD Conditions

Permit 389245

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
MACK ENERGY CORP [13837] P.O. Box 960 Artesia, NM 882110960	30-015-56932
	Well: DEVILS TOWER STATE COM #002H

OCD Reviewer	Condition
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.
jeffrey.harrison	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.
jeffrey.harrison	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.
jeffrey.harrison	Cement is required to circulate on both surface and intermediate1 strings of casing.
jeffrey.harrison	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.
jeffrey.harrison	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.
jeffrey.harrison	Surface casing shall be set a minimum of 25' into the Rustler Anhydrite, above the salt, and below usable fresh water and cemented to the surface. If salt is encountered set casing at least 25 ft. above the salt.

Devils Tower B State Com #2H, Plan 1

Operator	Mack Energy Corp	**Units**	feet, °/100ft	09:19 Wednesday, May 7, 2025	Page 1 of 6
Field		**County**	Eddy/Lea	**Vertical Section Azimuth**	89.69
Well Name	Devils Tower B State Com #2H	**State**	New Mexico	**Survey Calculation Method**	Minimum Curvature
Plan	1	**Country**	USA	**Database**	Access

Location	SL: 990 FSL & 1890 FWL Section 36-T16S-R31E BHL: 990 FSL & 1 FEL Section 31-T16S-32E	**Map Zone**	UTM	**Lat Long Ref**	
Site		**Surface X**	2001043.6	**Surface Long**	
Slot Name	**UWI**	**Surface Y**	11934619.9	**Surface Lat**	
Well Number	**API**	**Surface Z**	4090.6	**Global Z Ref**	KB
Project	**MD/TVD Ref**	**Ground Level**	4073.6	**Local North Ref**	Grid

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft
*** TIE (at MD = 4950.00)										
4950.00	0.00	0.0	4950.00	0.00	0.00		0.00	2001043.60	11934619.90	-859.40
5000.00	0.00	0.0	5000.00	0.00	0.00	0.00	0.00	2001043.60	11934619.90	-909.40
*** KOP 8 DEGREE (at MD = 5050.00)										
5050.00	0.00	0.0	5050.00	0.00	0.00	0.00	0.00	2001043.60	11934619.90	-959.40
5100.00	4.00	89.7	5099.96	0.01	1.74	8.00	1.74	2001045.34	11934619.91	-1009.36
5150.00	8.00	89.7	5149.68	0.04	6.97	8.00	6.97	2001050.57	11934619.94	-1059.08
5200.00	12.00	89.7	5198.91	0.08	15.65	8.00	15.65	2001059.25	11934619.98	-1108.31
5250.00	16.00	89.7	5247.41	0.15	27.74	8.00	27.74	2001071.34	11934620.05	-1156.81
5300.00	20.00	89.7	5294.95	0.23	43.19	8.00	43.19	2001086.79	11934620.13	-1204.35
5350.00	24.00	89.7	5341.30	0.34	61.92	8.00	61.92	2001105.52	11934620.24	-1250.70
5400.00	28.00	89.7	5386.23	0.45	83.83	8.00	83.83	2001127.43	11934620.35	-1295.63
5450.00	32.00	89.7	5429.53	0.59	108.83	8.00	108.83	2001152.43	11934620.49	-1338.93
5500.00	36.00	89.7	5470.97	0.74	136.78	8.00	136.78	2001180.38	11934620.64	-1380.37
5550.00	40.00	89.7	5510.36	0.91	167.56	8.00	167.56	2001211.16	11934620.81	-1419.76
5600.00	44.00	89.7	5547.51	1.09	201.01	8.00	201.01	2001244.61	11934620.99	-1456.91
5650.00	48.00	89.7	5582.24	1.28	236.96	8.00	236.97	2001280.56	11934621.18	-1491.64
5700.00	52.00	89.7	5614.37	1.49	275.26	8.00	275.26	2001318.86	11934621.39	-1523.77
*** 55 DEGREE TANGENT (at MD = 5737.50)										
5737.50	55.00	89.7	5636.67	1.65	305.40	8.00	305.40	2001349.00	11934621.55	-1546.07
5750.00	55.00	89.7	5643.84	1.71	315.64	0.00	315.64	2001359.24	11934621.61	-1553.24
5800.00	55.00	89.7	5672.52	1.93	356.60	0.00	356.60	2001400.20	11934621.83	-1581.92
5850.00	55.00	89.7	5701.20	2.15	397.55	0.00	397.56	2001441.15	11934622.05	-1610.60
5900.00	55.00	89.7	5729.88	2.37	438.51	0.00	438.52	2001482.11	11934622.27	-1639.28
5950.00	55.00	89.7	5758.56	2.59	479.47	0.00	479.47	2001523.07	11934622.49	-1667.96
*** 10 DEGREE BUILD (at MD = 5987.50)										
5987.50	55.00	89.7	5780.07	2.76	510.18	0.00	510.19	2001553.78	11934622.66	-1689.47
6000.00	56.25	89.7	5787.13	2.82	520.50	10.00	520.51	2001564.10	11934622.72	-1696.53
6050.00	61.25	89.7	5813.06	3.05	563.23	10.00	563.24	2001606.83	11934622.95	-1722.46
6100.00	66.25	89.7	5835.16	3.29	608.06	10.00	608.07	2001651.66	11934623.19	-1744.56
6150.00	71.25	89.7	5853.28	3.54	654.65	10.00	654.66	2001698.25	11934623.44	-1762.68
6200.00	76.25	89.7	5867.27	3.80	702.63	10.00	702.64	2001746.23	11934623.70	-1776.67
6250.00	81.25	89.7	5877.02	4.07	751.66	10.00	751.67	2001795.26	11934623.97	-1786.42
6300.00	86.25	89.7	5882.46	4.34	801.34	10.00	801.35	2001844.94	11934624.24	-1791.86
*** LANDING POINT (at MD = 6332.50)										
6332.50	89.50	89.7	5883.67	4.51	833.81	10.00	833.83	2001877.41	11934624.41	-1793.07
6350.00	89.50	89.7	5883.82	4.61	851.31	0.00	851.33	2001894.91	11934624.51	-1793.22
6400.00	89.50	89.7	5884.25	4.88	901.31	0.00	901.32	2001944.91	11934624.78	-1793.65
6450.00	89.50	89.7	5884.69	5.15	951.31	0.00	951.32	2001994.91	11934625.05	-1794.09

Devils Tower B State Com #2H, Plan 1

Operator	Mack Energy Corp	**Units**	feet, °/100ft	09:19 Wednesday, May 7, 2025	Page 2 of 6
Field		**County**	Eddy/Lea	**Vertical Section Azimuth**	89.69
Well Name	Devils Tower B State Com #2H	**State**	New Mexico	**Survey Calculation Method**	Minimum Curvature
Plan	1	**Country**	USA	**Database**	Access

Location	SL: 990 FSL & 1890 FWL Section 36-T16S-R31E BHL: 990 FSL & 1 FEL Section 31-T16S-32E	**Map Zone**	UTM	**Lat Long Ref**	
Site		**Surface X**	2001043.6	**Surface Long**	
Slot Name	**UWI**	**Surface Y**	11934619.9	**Surface Lat**	
Well Number	**API**	**Surface Z**	4090.6	**Global Z Ref**	KB
Project	**MD/TVD Ref**	**Ground Level**	4073.6	**Local North Ref**	Grid

DIRECTIONAL WELL PLAN

MD* ft	INC* deg	AZI* deg	TVD* ft	N* ft	E* ft	DLS* °/100ft	V. S.* ft	MapE* ft	MapN* ft	SysTVD* ft
6500.00	89.50	89.7	5885.13	5.42	1001.31	0.00	1001.32	2002044.91	11934625.32	-1794.53
6550.00	89.50	89.7	5885.56	5.69	1051.30	0.00	1051.32	2002094.90	11934625.59	-1794.96
6600.00	89.50	89.7	5886.00	5.96	1101.30	0.00	1101.32	2002144.90	11934625.86	-1795.40
6650.00	89.50	89.7	5886.44	6.23	1151.30	0.00	1151.31	2002194.90	11934626.13	-1795.84
6700.00	89.50	89.7	5886.87	6.50	1201.30	0.00	1201.31	2002244.90	11934626.40	-1796.27
6750.00	89.50	89.7	5887.31	6.77	1251.29	0.00	1251.31	2002294.89	11934626.67	-1796.71
6800.00	89.50	89.7	5887.74	7.04	1301.29	0.00	1301.31	2002344.89	11934626.94	-1797.14
6850.00	89.50	89.7	5888.18	7.31	1351.29	0.00	1351.31	2002394.89	11934627.21	-1797.58
6900.00	89.50	89.7	5888.62	7.58	1401.28	0.00	1401.30	2002444.88	11934627.48	-1798.02
6950.00	89.50	89.7	5889.05	7.85	1451.28	0.00	1451.30	2002494.88	11934627.75	-1798.45
7000.00	89.50	89.7	5889.49	8.12	1501.28	0.00	1501.30	2002544.88	11934628.02	-1798.89
7050.00	89.50	89.7	5889.93	8.39	1551.28	0.00	1551.30	2002594.88	11934628.29	-1799.33
7100.00	89.50	89.7	5890.36	8.66	1601.27	0.00	1601.30	2002644.87	11934628.56	-1799.76
7150.00	89.50	89.7	5890.80	8.93	1651.27	0.00	1651.30	2002694.87	11934628.83	-1800.20
7200.00	89.50	89.7	5891.24	9.20	1701.27	0.00	1701.29	2002744.87	11934629.10	-1800.64
7250.00	89.50	89.7	5891.67	9.48	1751.27	0.00	1751.29	2002794.87	11934629.38	-1801.07
7300.00	89.50	89.7	5892.11	9.75	1801.26	0.00	1801.29	2002844.86	11934629.65	-1801.51
7350.00	89.50	89.7	5892.54	10.02	1851.26	0.00	1851.29	2002894.86	11934629.92	-1801.94
7400.00	89.50	89.7	5892.98	10.29	1901.26	0.00	1901.29	2002944.86	11934630.19	-1802.38
7450.00	89.50	89.7	5893.42	10.56	1951.26	0.00	1951.28	2002994.86	11934630.46	-1802.82
7500.00	89.50	89.7	5893.85	10.83	2001.25	0.00	2001.28	2003044.85	11934630.73	-1803.25
7550.00	89.50	89.7	5894.29	11.10	2051.25	0.00	2051.28	2003094.85	11934631.00	-1803.69
7600.00	89.50	89.7	5894.73	11.37	2101.25	0.00	2101.28	2003144.85	11934631.27	-1804.13
7650.00	89.50	89.7	5895.16	11.64	2151.24	0.00	2151.28	2003194.84	11934631.54	-1804.56
7700.00	89.50	89.7	5895.60	11.91	2201.24	0.00	2201.27	2003244.84	11934631.81	-1805.00
7750.00	89.50	89.7	5896.03	12.18	2251.24	0.00	2251.27	2003294.84	11934632.08	-1805.43
7800.00	89.50	89.7	5896.47	12.45	2301.24	0.00	2301.27	2003344.84	11934632.35	-1805.87
7850.00	89.50	89.7	5896.91	12.72	2351.23	0.00	2351.27	2003394.83	11934632.62	-1806.31
7900.00	89.50	89.7	5897.34	12.99	2401.23	0.00	2401.27	2003444.83	11934632.89	-1806.74
7950.00	89.50	89.7	5897.78	13.26	2451.23	0.00	2451.27	2003494.83	11934633.16	-1807.18
8000.00	89.50	89.7	5898.22	13.53	2501.23	0.00	2501.26	2003544.83	11934633.43	-1807.62
8050.00	89.50	89.7	5898.65	13.80	2551.22	0.00	2551.26	2003594.82	11934633.70	-1808.05
8100.00	89.50	89.7	5899.09	14.07	2601.22	0.00	2601.26	2003644.82	11934633.97	-1808.49
8150.00	89.50	89.7	5899.53	14.34	2651.22	0.00	2651.26	2003694.82	11934634.24	-1808.93
8200.00	89.50	89.7	5899.96	14.62	2701.22	0.00	2701.26	2003744.82	11934634.52	-1809.36
8250.00	89.50	89.7	5900.40	14.89	2751.21	0.00	2751.25	2003794.81	11934634.79	-1809.80
8300.00	89.50	89.7	5900.83	15.16	2801.21	0.00	2801.25	2003844.81	11934635.06	-1810.23

Devils Tower B State Com #2H, Plan 1

Operator	Mack Energy Corp	**Units**	feet, °/100ft	09:19 Wednesday, May 7, 2025	Page 3 of 6
Field		**County**	Eddy/Lea	**Vertical Section Azimuth**	89.69
Well Name	Devils Tower B State Com #2H	**State**	New Mexico	**Survey Calculation Method**	Minimum Curvature
Plan	1	**Country**	USA	**Database**	Access

Location	SL: 990 FSL & 1890 FWL Section 36-T16S-R31E BHL: 990 FSL & 1 FEL Section 31-T16S-32E	**Map Zone**	UTM	**Lat Long Ref**	
Site		**Surface X**	2001043.6	**Surface Long**	
Slot Name	**UWI**	**Surface Y**	11934619.9	**Surface Lat**	
Well Number	**API**	**Surface Z**	4090.6	**Global Z Ref**	KB
Project	**MD/TVD Ref**	**Ground Level**	4073.6	**Local North Ref**	Grid

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft
8350.00	89.50	89.7	5901.27	15.43	2851.21	0.00	2851.25	2003894.81	11934635.33	-1810.67
8400.00	89.50	89.7	5901.71	15.70	2901.21	0.00	2901.25	2003944.81	11934635.60	-1811.11
8450.00	89.50	89.7	5902.14	15.97	2951.20	0.00	2951.25	2003994.80	11934635.87	-1811.54
8500.00	89.50	89.7	5902.58	16.24	3001.20	0.00	3001.24	2004044.80	11934636.14	-1811.98
8550.00	89.50	89.7	5903.02	16.51	3051.20	0.00	3051.24	2004094.80	11934636.41	-1812.42
8600.00	89.50	89.7	5903.45	16.78	3101.19	0.00	3101.24	2004144.79	11934636.68	-1812.85
8650.00	89.50	89.7	5903.89	17.05	3151.19	0.00	3151.24	2004194.79	11934636.95	-1813.29
8700.00	89.50	89.7	5904.33	17.32	3201.19	0.00	3201.24	2004244.79	11934637.22	-1813.73
8750.00	89.50	89.7	5904.76	17.59	3251.19	0.00	3251.23	2004294.79	11934637.49	-1814.16
8800.00	89.50	89.7	5905.20	17.86	3301.18	0.00	3301.23	2004344.78	11934637.76	-1814.60
8850.00	89.50	89.7	5905.63	18.13	3351.18	0.00	3351.23	2004394.78	11934638.03	-1815.03
8900.00	89.50	89.7	5906.07	18.40	3401.18	0.00	3401.23	2004444.78	11934638.30	-1815.47
8950.00	89.50	89.7	5906.51	18.67	3451.18	0.00	3451.23	2004494.78	11934638.57	-1815.91
9000.00	89.50	89.7	5906.94	18.94	3501.17	0.00	3501.23	2004544.77	11934638.84	-1816.34
9050.00	89.50	89.7	5907.38	19.21	3551.17	0.00	3551.22	2004594.77	11934639.11	-1816.78
9100.00	89.50	89.7	5907.82	19.48	3601.17	0.00	3601.22	2004644.77	11934639.38	-1817.22
9150.00	89.50	89.7	5908.25	19.75	3651.17	0.00	3651.22	2004694.77	11934639.65	-1817.65
9200.00	89.50	89.7	5908.69	20.03	3701.16	0.00	3701.22	2004744.76	11934639.93	-1818.09
9250.00	89.50	89.7	5909.12	20.30	3751.16	0.00	3751.22	2004794.76	11934640.20	-1818.52
9300.00	89.50	89.7	5909.56	20.57	3801.16	0.00	3801.21	2004844.76	11934640.47	-1818.96
9350.00	89.50	89.7	5910.00	20.84	3851.16	0.00	3851.21	2004894.76	11934640.74	-1819.40
9400.00	89.50	89.7	5910.43	21.11	3901.15	0.00	3901.21	2004944.75	11934641.01	-1819.83
9450.00	89.50	89.7	5910.87	21.38	3951.15	0.00	3951.21	2004994.75	11934641.28	-1820.27
9500.00	89.50	89.7	5911.31	21.65	4001.15	0.00	4001.21	2005044.75	11934641.55	-1820.71
9550.00	89.50	89.7	5911.74	21.92	4051.14	0.00	4051.20	2005094.74	11934641.82	-1821.14
9600.00	89.50	89.7	5912.18	22.19	4101.14	0.00	4101.20	2005144.74	11934642.09	-1821.58
9650.00	89.50	89.7	5912.62	22.46	4151.14	0.00	4151.20	2005194.74	11934642.36	-1822.02
9700.00	89.50	89.7	5913.05	22.73	4201.14	0.00	4201.20	2005244.74	11934642.63	-1822.45
9750.00	89.50	89.7	5913.49	23.00	4251.13	0.00	4251.20	2005294.73	11934642.90	-1822.89
9800.00	89.50	89.7	5913.92	23.27	4301.13	0.00	4301.19	2005344.73	11934643.17	-1823.32
9850.00	89.50	89.7	5914.36	23.54	4351.13	0.00	4351.19	2005394.73	11934643.44	-1823.76
9900.00	89.50	89.7	5914.80	23.81	4401.13	0.00	4401.19	2005444.73	11934643.71	-1824.20
9950.00	89.50	89.7	5915.23	24.08	4451.12	0.00	4451.19	2005494.72	11934643.98	-1824.63
10000.00	89.50	89.7	5915.67	24.35	4501.12	0.00	4501.19	2005544.72	11934644.25	-1825.07
10050.00	89.50	89.7	5916.11	24.62	4551.12	0.00	4551.19	2005594.72	11934644.52	-1825.51
10100.00	89.50	89.7	5916.54	24.89	4601.12	0.00	4601.18	2005644.72	11934644.79	-1825.94
10150.00	89.50	89.7	5916.98	25.17	4651.11	0.00	4651.18	2005694.71	11934645.07	-1826.38

Devils Tower B State Com #2H, Plan 1

Operator	Mack Energy Corp	**Units**	feet, °/100ft	09:19 Wednesday, May 7, 2025	Page 4 of 6
Field		**County**	Eddy/Lea	**Vertical Section Azimuth**	89.69
Well Name	Devils Tower B State Com #2H	**State**	New Mexico	**Survey Calculation Method**	Minimum Curvature
Plan	1	**Country**	USA	**Database**	Access

Location	SL: 990 FSL & 1890 FWL Section 36-T16S-R31E BHL: 990 FSL & 1 FEL Section 31-T16S-32E	**Map Zone**	UTM	**Lat Long Ref**	
Site		**Surface X**	2001043.6	**Surface Long**	
Slot Name	**UWI**	**Surface Y**	11934619.9	**Surface Lat**	
Well Number	**API**	**Surface Z**	4090.6	**Global Z Ref**	KB
Project	**MD/TVD Ref**	**Ground Level**	4073.6	**Local North Ref**	Grid

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft
10200.00	89.50	89.7	5917.41	25.44	4701.11	0.00	4701.18	2005744.71	11934645.34	-1826.81
10250.00	89.50	89.7	5917.85	25.71	4751.11	0.00	4751.18	2005794.71	11934645.61	-1827.25
10300.00	89.50	89.7	5918.29	25.98	4801.11	0.00	4801.18	2005844.71	11934645.88	-1827.69
10350.00	89.50	89.7	5918.72	26.25	4851.10	0.00	4851.17	2005894.70	11934646.15	-1828.12
10400.00	89.50	89.7	5919.16	26.52	4901.10	0.00	4901.17	2005944.70	11934646.42	-1828.56
10450.00	89.50	89.7	5919.60	26.79	4951.10	0.00	4951.17	2005994.70	11934646.69	-1829.00
10500.00	89.50	89.7	5920.03	27.06	5001.09	0.00	5001.17	2006044.69	11934646.96	-1829.43
10550.00	89.50	89.7	5920.47	27.33	5051.09	0.00	5051.17	2006094.69	11934647.23	-1829.87
10600.00	89.50	89.7	5920.91	27.60	5101.09	0.00	5101.16	2006144.69	11934647.50	-1830.31
10650.00	89.50	89.7	5921.34	27.87	5151.09	0.00	5151.16	2006194.69	11934647.77	-1830.74
10700.00	89.50	89.7	5921.78	28.14	5201.08	0.00	5201.16	2006244.68	11934648.04	-1831.18
10750.00	89.50	89.7	5922.21	28.41	5251.08	0.00	5251.16	2006294.68	11934648.31	-1831.61
10800.00	89.50	89.7	5922.65	28.68	5301.08	0.00	5301.16	2006344.68	11934648.58	-1832.05
10850.00	89.50	89.7	5923.09	28.95	5351.08	0.00	5351.15	2006394.68	11934648.85	-1832.49
10900.00	89.50	89.7	5923.52	29.22	5401.07	0.00	5401.15	2006444.67	11934649.12	-1832.92
10950.00	89.50	89.7	5923.96	29.49	5451.07	0.00	5451.15	2006494.67	11934649.39	-1833.36
11000.00	89.50	89.7	5924.40	29.76	5501.07	0.00	5501.15	2006544.67	11934649.66	-1833.80
11050.00	89.50	89.7	5924.83	30.03	5551.07	0.00	5551.15	2006594.67	11934649.93	-1834.23
11100.00	89.50	89.7	5925.27	30.31	5601.06	0.00	5601.15	2006644.66	11934650.21	-1834.67
11150.00	89.50	89.7	5925.71	30.58	5651.06	0.00	5651.14	2006694.66	11934650.48	-1835.11
11200.00	89.50	89.7	5926.14	30.85	5701.06	0.00	5701.14	2006744.66	11934650.75	-1835.54
11250.00	89.50	89.7	5926.58	31.12	5751.06	0.00	5751.14	2006794.66	11934651.02	-1835.98
11300.00	89.50	89.7	5927.01	31.39	5801.05	0.00	5801.14	2006844.65	11934651.29	-1836.41
11350.00	89.50	89.7	5927.45	31.66	5851.05	0.00	5851.14	2006894.65	11934651.56	-1836.85
11400.00	89.50	89.7	5927.89	31.93	5901.05	0.00	5901.13	2006944.65	11934651.83	-1837.29
11450.00	89.50	89.7	5928.32	32.20	5951.04	0.00	5951.13	2006994.64	11934652.10	-1837.72
11500.00	89.50	89.7	5928.76	32.47	6001.04	0.00	6001.13	2007044.64	11934652.37	-1838.16
11550.00	89.50	89.7	5929.20	32.74	6051.04	0.00	6051.13	2007094.64	11934652.64	-1838.60
11600.00	89.50	89.7	5929.63	33.01	6101.04	0.00	6101.13	2007144.64	11934652.91	-1839.03
11650.00	89.50	89.7	5930.07	33.28	6151.03	0.00	6151.12	2007194.63	11934653.18	-1839.47
11700.00	89.50	89.7	5930.50	33.55	6201.03	0.00	6201.12	2007244.63	11934653.45	-1839.90
11750.00	89.50	89.7	5930.94	33.82	6251.03	0.00	6251.12	2007294.63	11934653.72	-1840.34
11800.00	89.50	89.7	5931.38	34.09	6301.03	0.00	6301.12	2007344.63	11934653.99	-1840.78
11850.00	89.50	89.7	5931.81	34.36	6351.02	0.00	6351.12	2007394.62	11934654.26	-1841.21
11900.00	89.50	89.7	5932.25	34.63	6401.02	0.00	6401.11	2007444.62	11934654.53	-1841.65
11950.00	89.50	89.7	5932.69	34.90	6451.02	0.00	6451.11	2007494.62	11934654.80	-1842.09
12000.00	89.50	89.7	5933.12	35.17	6501.02	0.00	6501.11	2007544.62	11934655.07	-1842.52

Devils Tower B State Com #2H, Plan 1

Operator	Mack Energy Corp	**Units**	feet, °/100ft	09:19 Wednesday, May 7, 2025	Page 5 of 6
Field		**County**	Eddy/Lea	**Vertical Section Azimuth**	89.69
Well Name	Devils Tower B State Com #2H	**State**	New Mexico	**Survey Calculation Method**	Minimum Curvature
Plan	1	**Country**	USA	**Database**	Access

Location	SL: 990 FSL & 1890 FWL Section 36-T16S-R31E BHL: 990 FSL & 1 FEL Section 31-T16S-32E	**Map Zone**	UTM	**Lat Long Ref**	
Site		**Surface X**	2001043.6	**Surface Long**	
Slot Name	**UWI**	**Surface Y**	11934619.9	**Surface Lat**	
Well Number	**API**	**Surface Z**	4090.6	**Global Z Ref**	KB
Project	**MD/TVD Ref**	**Ground Level**	4073.6	**Local North Ref**	Grid

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft
12050.00	89.50	89.7	5933.56	35.44	6551.01	0.00	6551.11	2007594.61	11934655.34	-1842.96
12100.00	89.50	89.7	5934.00	35.72	6601.01	0.00	6601.11	2007644.61	11934655.62	-1843.40
12150.00	89.50	89.7	5934.43	35.99	6651.01	0.00	6651.11	2007694.61	11934655.89	-1843.83
12200.00	89.50	89.7	5934.87	36.26	6701.01	0.00	6701.10	2007744.61	11934656.16	-1844.27
12250.00	89.50	89.7	5935.30	36.53	6751.00	0.00	6751.10	2007794.60	11934656.43	-1844.70
12300.00	89.50	89.7	5935.74	36.80	6801.00	0.00	6801.10	2007844.60	11934656.70	-1845.14
12350.00	89.50	89.7	5936.18	37.07	6851.00	0.00	6851.10	2007894.60	11934656.97	-1845.58
12400.00	89.50	89.7	5936.61	37.34	6900.99	0.00	6901.10	2007944.59	11934657.24	-1846.01
12450.00	89.50	89.7	5937.05	37.61	6950.99	0.00	6951.09	2007994.59	11934657.51	-1846.45
12500.00	89.50	89.7	5937.49	37.88	7000.99	0.00	7001.09	2008044.59	11934657.78	-1846.89
12550.00	89.50	89.7	5937.92	38.15	7050.99	0.00	7051.09	2008094.59	11934658.05	-1847.32
12600.00	89.50	89.7	5938.36	38.42	7100.98	0.00	7101.09	2008144.58	11934658.32	-1847.76
12650.00	89.50	89.7	5938.79	38.69	7150.98	0.00	7151.09	2008194.58	11934658.59	-1848.19
12700.00	89.50	89.7	5939.23	38.96	7200.98	0.00	7201.08	2008244.58	11934658.86	-1848.63
12750.00	89.50	89.7	5939.67	39.23	7250.98	0.00	7251.08	2008294.58	11934659.13	-1849.07
12800.00	89.50	89.7	5940.10	39.50	7300.97	0.00	7301.08	2008344.57	11934659.40	-1849.50
12850.00	89.50	89.7	5940.54	39.77	7350.97	0.00	7351.08	2008394.57	11934659.67	-1849.94
12900.00	89.50	89.7	5940.98	40.04	7400.97	0.00	7401.08	2008444.57	11934659.94	-1850.38
12950.00	89.50	89.7	5941.41	40.31	7450.97	0.00	7451.07	2008494.57	11934660.21	-1850.81
13000.00	89.50	89.7	5941.85	40.58	7500.96	0.00	7501.07	2008544.56	11934660.48	-1851.25
13050.00	89.50	89.7	5942.29	40.86	7550.96	0.00	7551.07	2008594.56	11934660.76	-1851.69
13100.00	89.50	89.7	5942.72	41.13	7600.96	0.00	7601.07	2008644.56	11934661.03	-1852.12
13150.00	89.50	89.7	5943.16	41.40	7650.96	0.00	7651.07	2008694.56	11934661.30	-1852.56
13200.00	89.50	89.7	5943.59	41.67	7700.95	0.00	7701.07	2008744.55	11934661.57	-1852.99
13250.00	89.50	89.7	5944.03	41.94	7750.95	0.00	7751.06	2008794.55	11934661.84	-1853.43
13300.00	89.50	89.7	5944.47	42.21	7800.95	0.00	7801.06	2008844.55	11934662.11	-1853.87
13350.00	89.50	89.7	5944.90	42.48	7850.94	0.00	7851.06	2008894.54	11934662.38	-1854.30
13400.00	89.50	89.7	5945.34	42.75	7900.94	0.00	7901.06	2008944.54	11934662.65	-1854.74
13450.00	89.50	89.7	5945.78	43.02	7950.94	0.00	7951.06	2008994.54	11934662.92	-1855.18
13500.00	89.50	89.7	5946.21	43.29	8000.94	0.00	8001.05	2009044.54	11934663.19	-1855.61
13550.00	89.50	89.7	5946.65	43.56	8050.93	0.00	8051.05	2009094.53	11934663.46	-1856.05
13600.00	89.50	89.7	5947.09	43.83	8100.93	0.00	8101.05	2009144.53	11934663.73	-1856.49
13650.00	89.50	89.7	5947.52	44.10	8150.93	0.00	8151.05	2009194.53	11934664.00	-1856.92
13700.00	89.50	89.7	5947.96	44.37	8200.93	0.00	8201.05	2009244.53	11934664.27	-1857.36
13750.00	89.50	89.7	5948.39	44.64	8250.92	0.00	8251.04	2009294.52	11934664.54	-1857.79
13800.00	89.50	89.7	5948.83	44.91	8300.92	0.00	8301.04	2009344.52	11934664.81	-1858.23
13850.00	89.50	89.7	5949.27	45.18	8350.92	0.00	8351.04	2009394.52	11934665.08	-1858.67

Devils Tower B State Com #2H, Plan 1

Operator	Mack Energy Corp	**Units**	feet, °/100ft	09:19 Wednesday, May 7, 2025	Page 6 of 6
Field		**County**	Eddy/Lea	**Vertical Section Azimuth**	89.69
Well Name	Devils Tower B State Com #2H	**State**	New Mexico	**Survey Calculation Method**	Minimum Curvature
Plan	1	**Country**	USA	**Database**	Access

Location	SL: 990 FSL & 1890 FWL Section 36-T16S-R31E BHL: 990 FSL & 1 FEL Section 31-T16S-32E	**Map Zone**	UTM	**Lat Long Ref**	
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Slot Name	**UWI**	**Surface Y**	11934619.9	**Surface Lat**	
Well Number	**API**	**Surface Z**	4090.6	**Global Z Ref**	KB
Project	**MD/TVD Ref**	**Ground Level**	4073.6	**Local North Ref**	Grid

DIRECTIONAL WELL PLAN

MD* ft	INC* deg	AZI* deg	TVD* ft	N* ft	E* ft	DLS* °/100ft	V. S.* ft	MapE* ft	MapN* ft	SysTVD* ft
13900.00	89.50	89.7	5949.70	45.45	8400.92	0.00	8401.04	2009444.52	11934665.35	-1859.10
13950.00	89.50	89.7	5950.14	45.72	8450.91	0.00	8451.04	2009494.51	11934665.62	-1859.54
14000.00	89.50	89.7	5950.58	45.99	8500.91	0.00	8501.03	2009544.51	11934665.89	-1859.98
14050.00	89.50	89.7	5951.01	46.27	8550.91	0.00	8551.03	2009594.51	11934666.17	-1860.41
14100.00	89.50	89.7	5951.45	46.54	8600.90	0.00	8601.03	2009644.50	11934666.44	-1860.85
14150.00	89.50	89.7	5951.88	46.81	8650.90	0.00	8651.03	2009694.50	11934666.71	-1861.28
*** TD (at MD = 14182.50)										
14182.50	89.50	89.7	5952.17	46.98	8683.40	0.00	8683.53	2009727.00	11934666.88	-1861.57

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: Mack Energy Corporation **OGRID:** 013837 **Date:** 05 / 13 / 2025

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

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Devils Tower B State Com 2H		N Sec 36 T16S R31E	990FSL 1890FWL	100	100	1,000

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

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

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Devils Tower B State Com 2H		9/1/2025	9/21/2025	10/21/2025	10/21/2025	10/21/2025

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

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

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

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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

Signature:	Delilah Flores
Printed Name:	Delilah Flores
Title:	Regulatory Technician I
E-mail Address:	delilah@mec.com
Date:	5/13/2025
Phone:	575-748-1288

OIL CONSERVATION DIVISION

(Only applicable when submitted as a standalone form)

Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

VI. Separation Equipment:

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

VII. Operational Practices:

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

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

VIII. Best Management Practices:

1. MEC has adequate storage and takeaway capacity for wells it chooses to complete as the flowlines at the sites are already in place and tied into a gathering system.
2. MEC will flare rather than vent vessel blowdown gas when technically feasible during active and/or planned maintenance to equipment on-site.
3. MEC combusts natural gas that would otherwise be vented or flared, when technically feasible.
4. MEC will shut in wells in the event of a takeaway disruption, emergency situation, or other operations where venting or flaring may occur due to equipment failures.
5. MEC has a gas gathering system in place(CTB-887)a with multiple purchaser's to limit venting or flaring, due to purchaser shut downs.