

**STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION**

**APPLICATION OF MR NM OPERATING  
LLC FOR COMPULSORY POOLING,  
LEA COUNTY, NEW MEXICO.**

**CASE NO. 25642**

**NOTICE OF INTERVENTION AND OBJECTION  
TO PROCEEDING BY AFFIDAVITS**

Mack Energy Corp (“Mack”) hereby intervenes in the above-referenced case and provides notice that it objects to this case proceeding by affidavit or self-affirmed statement. In support of this notice Mack states:

1. This case seeks to pool the Yeso formation underlying the SE/4 of Section 31 and the SW/4 of Section 32, Township 16 South, Range 32 East, NMPM, Lea County, New Mexico and is currently scheduled for a hearing on October 9, 2025.

2. Mack has approved drilling permits and development plans that MR NM’s proposed development will partially overlap. *See* Exhibit A. Further, Mack recently sent well proposals and AFEs to interest owners and plans to file for compulsory pooling, if necessary, which would compete with MR NM’s filed application. *See* Exhibit B.

3. Mack received overlapping spacing unit notice from MR NM because it has approved drilling permits<sup>1</sup>; however, Mack did not receive notice of MR NM’s compulsory pooling application because it does not own an interest in the SE/4 of Section 31, which is the subject partially overlapping acreage. Mack is currently engaged in good faith negotiations with the interest owner in the SE/4 of Section 31.

---

<sup>1</sup> Mack objected to MR NM’s overlapping spacing unit on October 1, 2025. *See* Exhibit C.

4. Since Mack has approved drilling permits, it is engaged in on-going development plans, and has working interests that will be negatively affected by MR NM's proposed development plans and intends to file a competing pooling application, if necessary, Mack's participation in these cases will contribute substantially to the prevention of waste and the protections of correlative rights. *See* NMRA 19.15.4.11.

Respectfully submitted,

HOLLAND & HART, LLP



---

Adam G. Rankin  
Paula M. Vance  
Post Office Box 2208  
Santa Fe, New Mexico 87504  
(505) 988-4421  
(505) 983-6043 Facsimile  
agrarkin@hollandhart.com  
pmvance@hollandhart.com

**ATTORNEYS FOR MACK ENERGY CORP**

**CERTIFICATE OF SERVICE**

I hereby certify that on October 1, 2025, I served a copy of the foregoing document to the following counsel of record via Electronic Mail to:

Dana S. Hardy  
Jaclyn M. McLean  
Yarithza Pena  
125 Lincoln Ave, Ste. 223  
Santa Fe, NM 87501  
(505) 230-4410  
*dhardy@hardymclean.com*  
*jmclean@hardymclean.com*  
*ypena@hardymclean.com*



---

Paula M. Vance

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**

**EXHIBIT**  
**A**

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 MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960		2. OGRID Number 13837
		3. API Number 30-015-56932
4. Property Code 337372	5. Property Name DEVILS TOWER STATE COM	6. Well No. 002H

**7. Surface Location**

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

**8. Proposed Bottom Hole Location**

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

**9. Pool Information**

FREN; GLORIETA-YESO	26770
---------------------	-------

**Additional Well Information**

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 4074
16. Multiple N	17. Proposed Depth 14183	18. Formation Blincy	19. Contractor	20. Spud Date 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	

<p>23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. <b>I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable.</b></p> <p>Signature:</p> <p>Printed Name: Electronically filed by Jerry Sherrell</p> <p>Title: Regulatory Supervisor</p> <p>Email Address: jerrys@mec.com</p> <p>Date: 5/14/2025</p>	<p style="text-align: center;"><b>OIL CONSERVATION DIVISION</b></p> <p>Approved By: Jeffrey Harrison</p> <p>Title: Petroleum Specialist III</p> <p>Approved Date: 7/1/2025</p> <p>Expiration Date: 7/1/2027</p> <p>Conditions of Approval Attached</p>
---	--



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:	<input checked="" type="checkbox"/> Initial Submittal
			<input type="checkbox"/> Amended Report
		<input type="checkbox"/> As Drilled	

## WELL LOCATION INFORMATION

API Number <b>30-015-56932</b>	Pool Code <b>26770</b>	Pool Name <b>Fren; Glorieta - Yeso</b>
Property Code <b>337372</b>	Property Name <b>DEVILS TOWER STATE COM</b>	Well Number <b>002H</b>
OGRID No. <b>13837</b>	Operator Name <b>MACK ENERGY CORPORATION</b>	Ground Level Elevation <b>4073.6</b>
Surface Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		Mineral Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal

## Surface Location

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

## Bottom Hole Location

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

Dedicated Acres <del>240</del> <b>240.65</b>	Infill or Defining Well <b>Defining</b>	Defining Well API <b>N/A</b>	Overlapping Spacing Unit (Y/N) <b>Y</b>	Consolidation Code <b>N/A</b>
Order Numbers. <b>N/A</b>			Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

## Kick Off Point (KOP)

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

## First Take Point (FTP)

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

## Last Take Point (LTP)

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

Unitized Area or Area of Uniform Interest	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation:
---	--	-------------------------

## OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my 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**

Certificate Number

Date of 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.

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

## 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

FIRST TAKE POINT

990' FSL, 2540' FEL

N.=681954.93

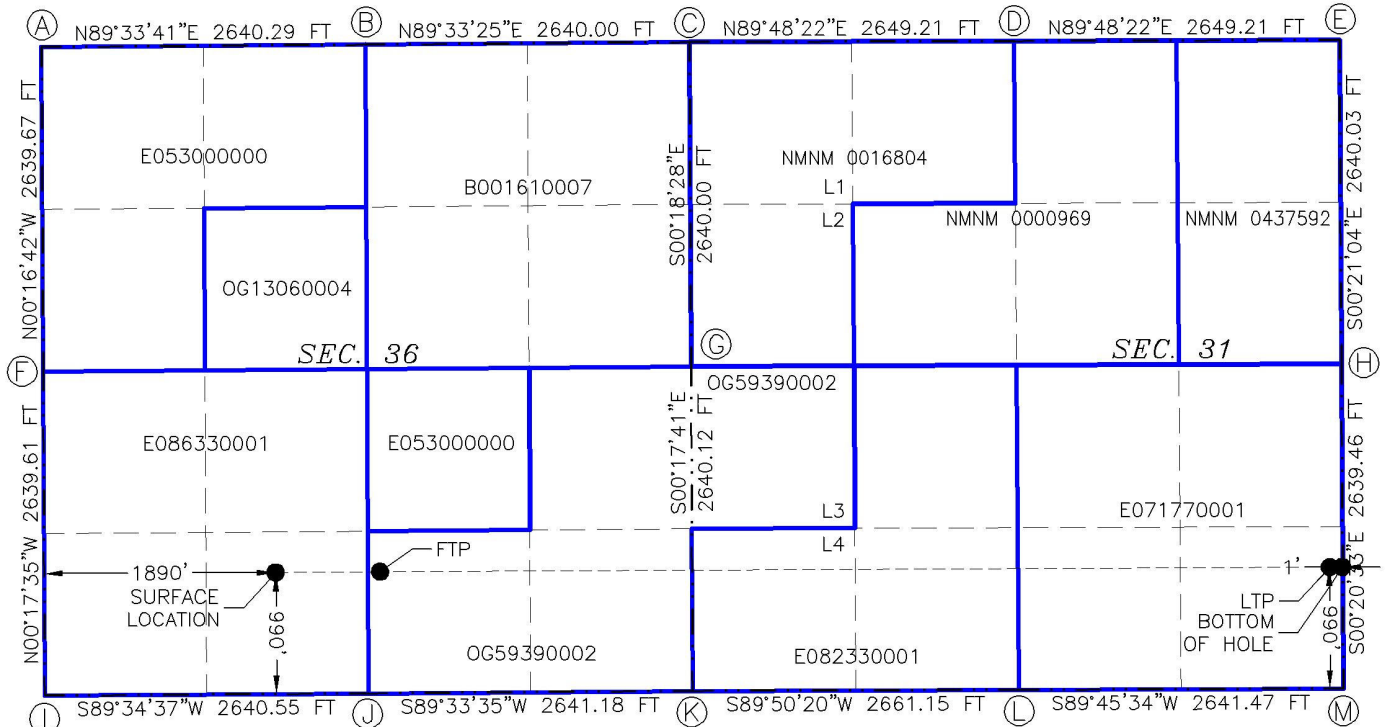
E.=698076.96

LAT.=32.8736730°N

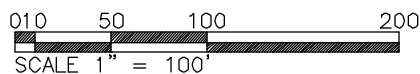
LONG.=103.8228053°W

## LEGEND

--- SECTION LINE  
--- QUARTER LINE  
--- LEASE LINE  
--- WELL PATH



369.99 FT  
 00°01'34"W  
 PROPOSED 574 L.F. ROAD RE-ROUTE  
 EL. 4073.4  
 N89°59'39"E  
 360.22 FT  
 EL. 4078.1  
 195'  
 EL. = 4073.6  
 3.060± ACRES  
 210' 150'  
 LAT. = 32.8736672°N (NAD83)  
 LONG. = 103.8255784°W  
 990' FSL, 1890' FWL  
 175'  
 EL. 4068.5 S89°59'42"W 360.22 FT EL. 4070.9  
 12' CALICHE ROAD  
 3/4" N POWER LINE  
 12' CALICHE ROAD TO BE RELOCATED  
 00°01'36"E  
 369.99 FT  
 EXISTING PAD  
 ROVER OF HUSTATE



### 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) & SUEPE ROAD, GO NORTHWEST ON SUEPE 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 26 DAY OF JUNE 2025.

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

SURVEY NO. 10406A

SHEET: 1-7

MADRON SURVEYING, INC. 301 SOUTH CENTRAL AVE. ALBUQUERQUE, NEW MEXICO 87102  
(575) 234-1522

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

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

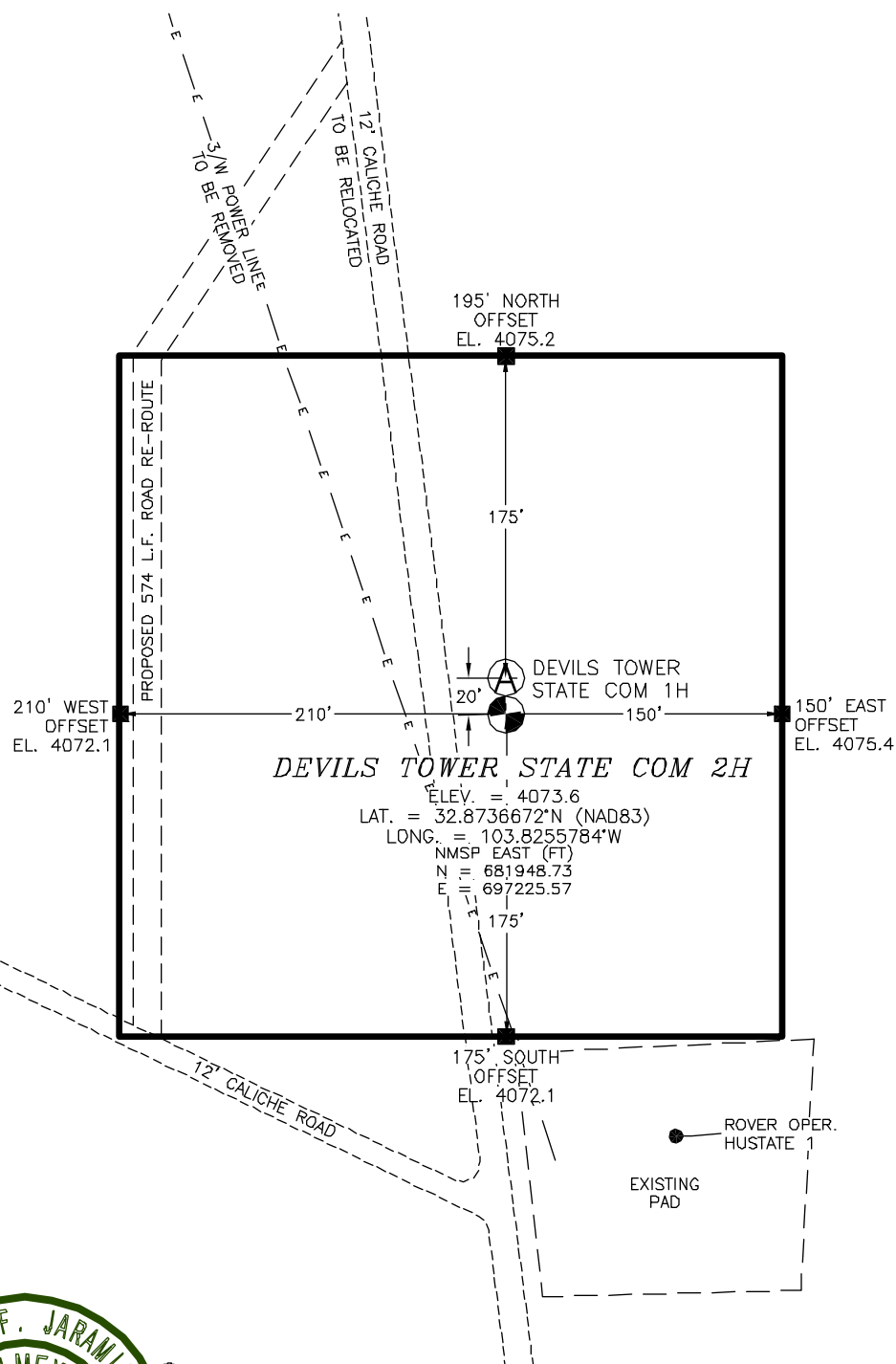
SURVEY NO. 10406A

SHEET: 2-7

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



010 50 100 200  
 SCALE 1" = 100'

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

FILIMON F. JARAMILLO, P.S.

SHEET: 3

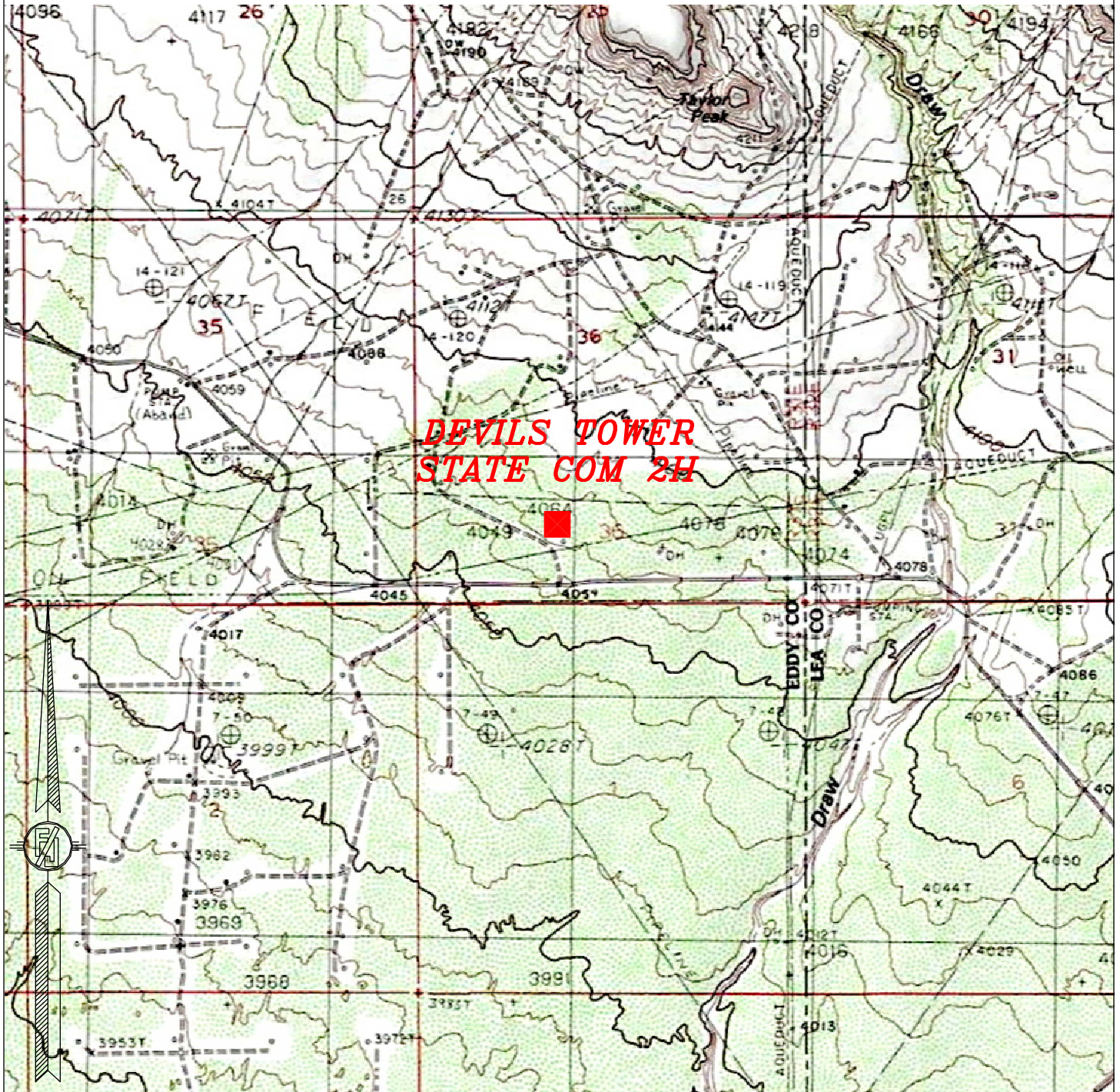
MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO (575) 234-3327

SURVEY NO. 10406A



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



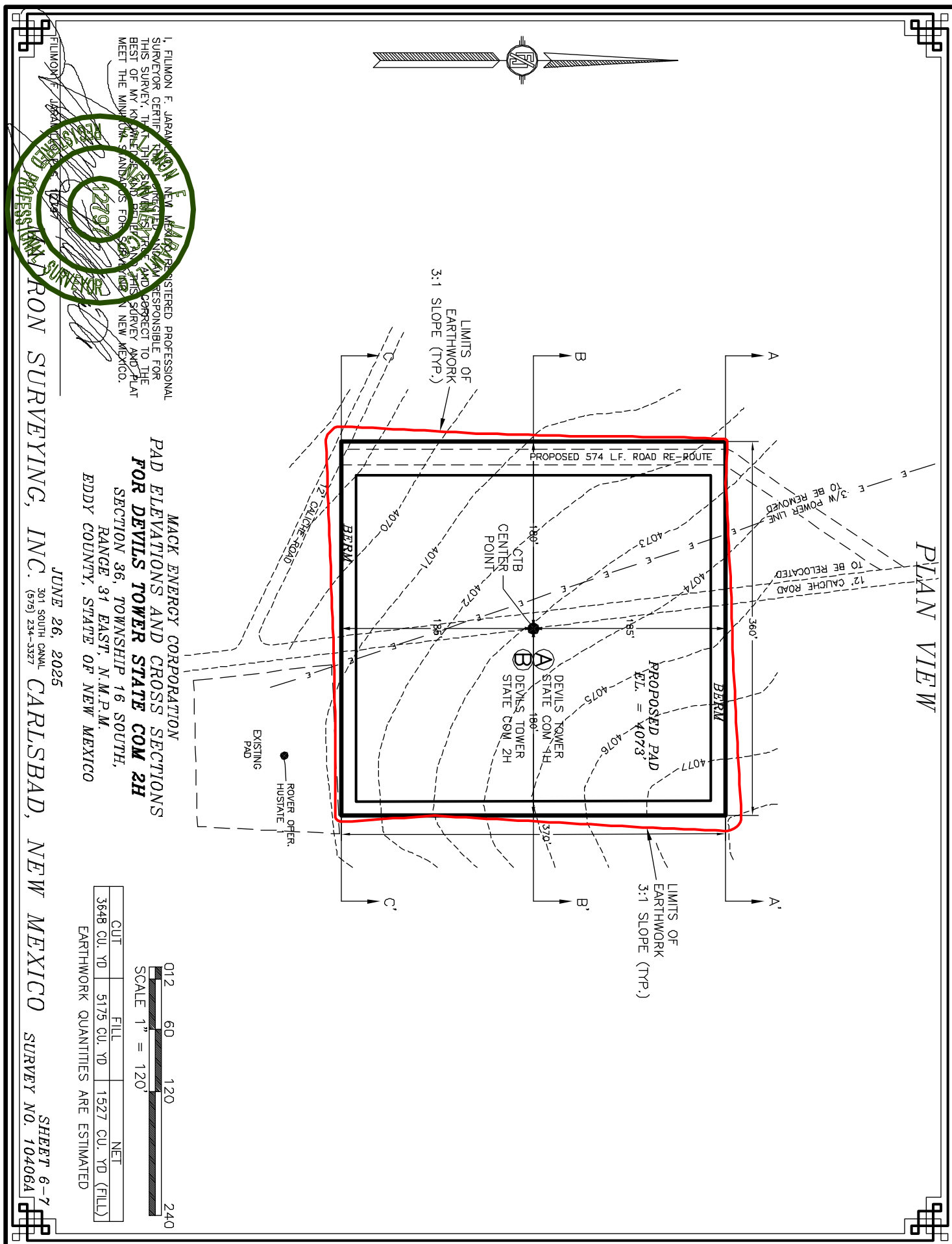
NOT TO SCALE  
 AERIAL PHOTO:  
 GOOGLE EARTH

**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

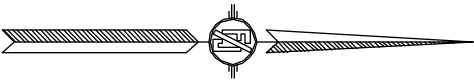
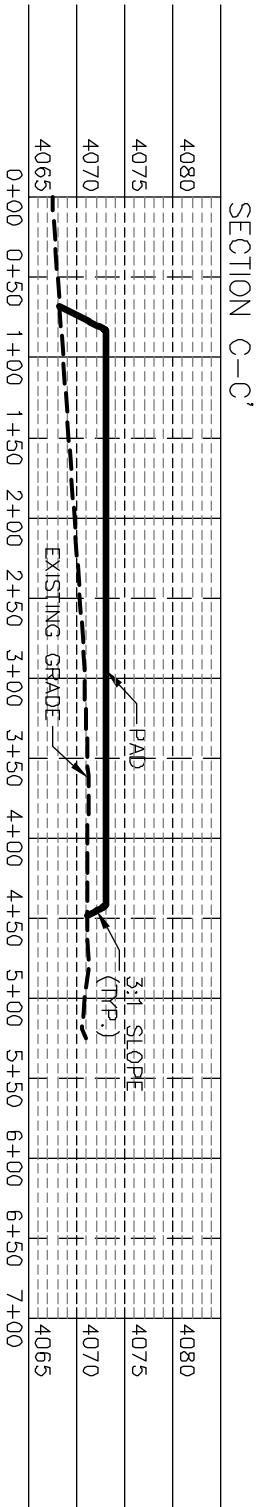
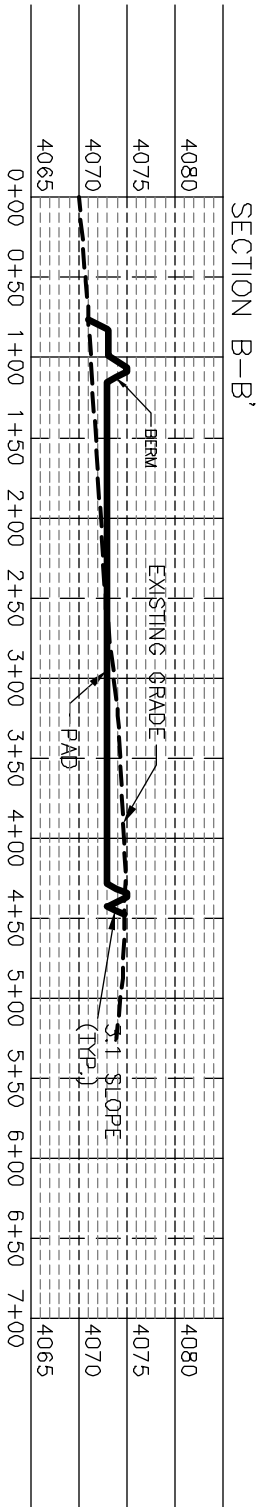
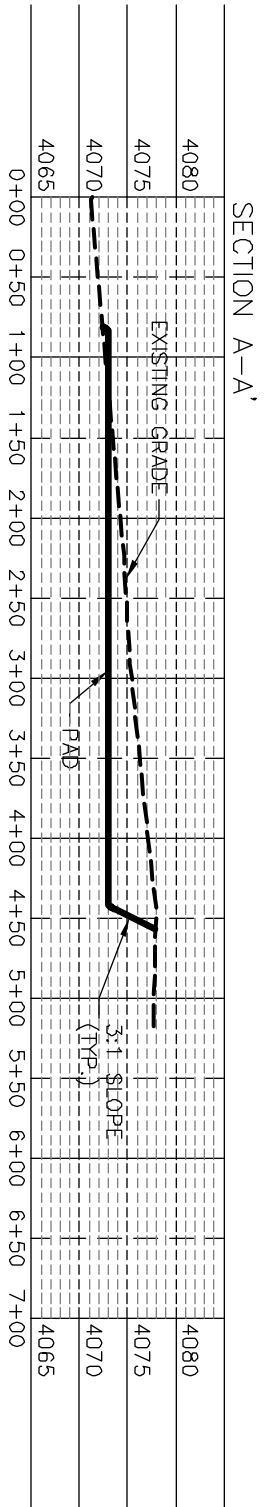
SURVEY NO. 10406A

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



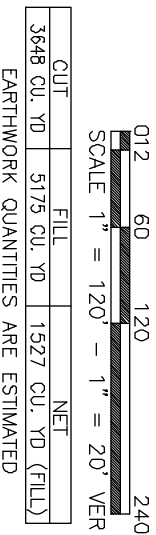


CROSS-SECTIONS



I, FILMON F. JARAN, LICENSED PROFESSIONAL SURVEYOR CERTIFICATE NO. 12297, AM RESPONSIBLE FOR THIS SURVEY, THAT THE SURVEYING AND PLAT BEST OF MY KNOWLEDGE AND BELIEF MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

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  
301 SOUTH CANAL  
(979) 234-3327  
CARLSBAD, NEW MEXICO  
SURVEY NO. 10406A

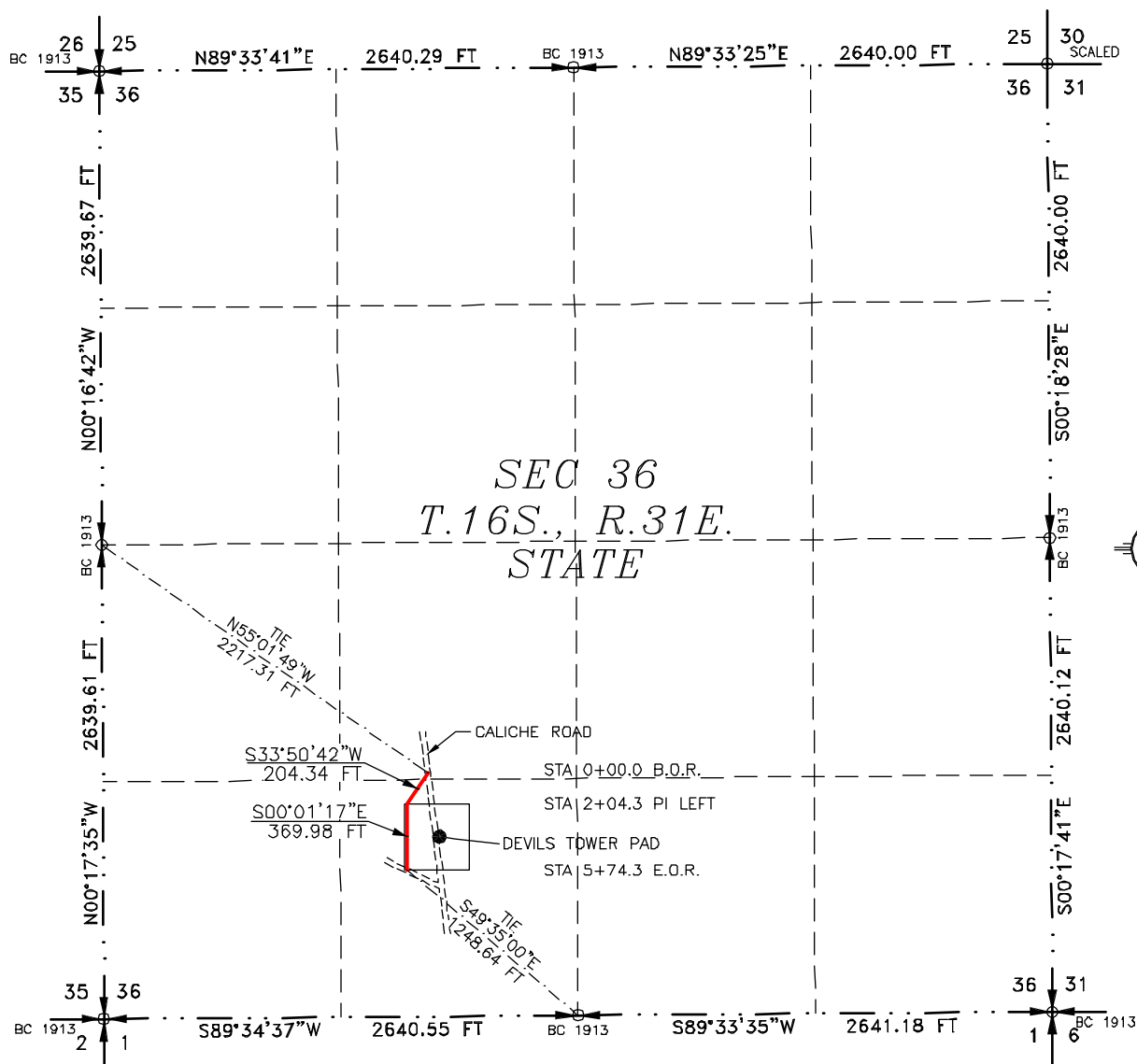
SHEET 7-7

**ACCESS ROAD PLAT**

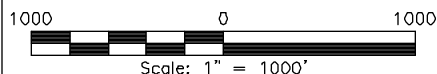
RE-ROUTE EXISTING ROAD AROUND DEVILS TOWER STATE COM 1H &amp; 2H

**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

**GENERAL NOTES**

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

SHEET: 1-2

MADRON SURVEYING, INC.

**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 26th DAY OF JUNE 2025

FILMON F. JARAMILLO  
NEW MEXICO PROFESSIONAL SURVEYOR  
NO. 12797  
301 SOUTH CANAL  
CARLSBAD, NEW MEXICO 88220  
(575) 234-3327

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

SURVEY NO. 10406A

CARLSBAD, NEW MEXICO

**ACCESS ROAD PLAT**

RE-ROUTE EXISTING ROAD AROUND DEVILS TOWER STATE COM 1H &amp; 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.

SHEET: 2-2

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

**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



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

SURVEY NO. 10406A

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

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/oecd/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: MACK ENERGY CORP [13837] P.O. Box 960 Artesia, NM 882110960	API Number: 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							Surface Y	11934619.9		Surface Lat
Well Number							Surface Z	4090.6		Global Z Ref KB
Project							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*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	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

Page 2 of 6

SES v5.79

www.makinhole.com

## Devils Tower B State Com #2H, Plan 1

<b>Operator</b>	Mack Energy Corp			<b>Units</b>	feet, °/100ft		09:19 Wednesday, May 7, 2025 Page 3 of 6				
<b>Field</b>				<b>County</b>	Eddy/Lea		<b>Vertical Section Azimuth</b>	89.69			
<b>Well Name</b>	Devils Tower B State Com #2H			<b>State</b>	New Mexico		<b>Survey Calculation Method</b>	Minimum Curvature			
<b>Plan</b>	1			<b>Country</b>	USA		<b>Database</b>	Access			
<b>Location</b>	SL: 990 FSL & 1890 FWL Section 36-T16S-R31E BHL: 990 FSL & 1 FEL Section 31-T16S-32E						<b>Map Zone</b>	UTM		<b>Lat Long Ref</b>	
<b>Site</b>							<b>Surface X</b>	2001043.6		<b>Surface Long</b>	
<b>Slot Name</b>							<b>Surface Y</b>	11934619.9		<b>Surface Lat</b>	
<b>Well Number</b>							<b>Surface Z</b>	4090.6		<b>Global Z Ref</b> KB	
<b>Project</b>							<b>Ground Level</b>	4073.6		<b>Local North Ref</b> Grid	
<b>DIRECTIONAL WELL PLAN</b>											
<b>MD*</b>	<b>INC*</b>	<b>AZI*</b>	<b>TVD*</b>	<b>N*</b>	<b>E*</b>	<b>DLS*</b>	<b>V. S.*</b>	<b>MapE*</b>	<b>MapN*</b>	<b>SysTVD*</b>	
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						Surface Y	11934619.9		Surface Lat	
Well Number	UWI					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						Surface Y	11934619.9		Surface Lat	
Well Number	UWI					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	
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
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

Page 6 of 6

SES v5.79

www.makinhole.com

State of New Mexico  
Energy, Minerals and Natural Resources DepartmentSubmit Electronically  
Via E-permittingOil 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:	<i>Delilah Flores</i>
Printed Name:	Delilah Flores
Title:	Regulatory Technician I
E-mail Address:	delilah@mec.com
Date:	5/13/2025
Phone:	575-748-1288
<b>OIL CONSERVATION DIVISION</b> (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.



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 389233

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

1. Operator Name and Address MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960		2. OGRID Number 13837
		3. API Number 30-015-56931
4. Property Code 337372	5. Property Name DEVILS TOWER STATE COM	6. Well No. 001H

**7. Surface Location**

UL - Lot N	Section 36	Township 16S	Range 31E	Lot Idn N	Feet From 1010	N/S Line S	Feet From 1890	E/W Line W	County Eddy
---------------	---------------	-----------------	--------------	--------------	-------------------	---------------	-------------------	---------------	----------------

**8. Proposed Bottom Hole Location**

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

**9. Pool Information**

FREN; GLORIETA-YESO	26770
---------------------	-------

**Additional Well Information**

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 4074
16. Multiple N	17. Proposed Depth 13733	18. Formation Paddock	19. Contractor	20. Spud Date 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	5600	240	0
Prod	8.75	5.5	17	13733	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" csg/cmt. Drill 8 3/4" hole to 5600', run 7" csg 0-5600', run 5 1/2" csg 5600' - 13,733' 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 <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> , if applicable.	<b>OIL CONSERVATION DIVISION</b>	
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	Expiration Date: 7/1/2027
Date: 5/14/2025	Phone: 575-748-1288	Conditions of Approval Attached

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:	<input checked="" type="checkbox"/> Initial Submittal
			<input type="checkbox"/> Amended Report
		<input type="checkbox"/> As Drilled	

## WELL LOCATION INFORMATION

API Number <b>30-015-56931</b>	Pool Code <b>26770</b>	Pool Name <b>Fren; Glorieta - Yeso</b>
Property Code <b>337372</b>	Property Name <b>DEVILS TOWER STATE COM</b>	Well Number <b>001H</b>
OGRID No. <b>13837</b>	Operator Name <b>MACK ENERGY CORPORATION</b>	Ground Level Elevation <b>4073.9</b>
Surface Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		Mineral Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal

## Surface Location

UL N	Section 36	Township 16 S	Range 31 E	Lot	Ft. from N/S 1010 SOUTH	Ft. from E/W 1890 WEST	Latitude 32.8737219°N	Longitude 103.8255787°W	County EDDY
---------	---------------	------------------	---------------	-----	----------------------------	---------------------------	--------------------------	----------------------------	----------------

## Bottom Hole Location

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

Dedicated Acres <b>240 240.65</b>	Infill or Defining Well <b>Defining</b>	Defining Well API <b>N/A</b>	Overlapping Spacing Unit (Y/N) <b>Y</b>	Consolidation Code <b>N/A</b>
Order Numbers. <b>N/A</b>			Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

## Kick Off Point (KOP)

UL N	Section 36	Township 16 S	Range 31 E	Lot	Ft. from N/S 1010 SOUTH	Ft. from E/W 1890 WEST	Latitude 32.8737219°N	Longitude 103.8255787°W	County EDDY
---------	---------------	------------------	---------------	-----	----------------------------	---------------------------	--------------------------	----------------------------	----------------

## First Take Point (FTP)

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

## Last Take Point (LTP)

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

Unitized Area or Area of Uniform Interest	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation:
---	--	-------------------------

## OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my 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

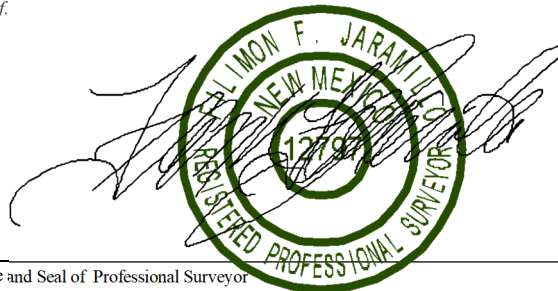
Printed Name

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

Certificate Number

PLS 12797

Date of Survey

JUNE 26, 2025

SURVEY NO. 10405A

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.

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 1H  
EL. = 4073.9

GEODETIC COORDINATES

NAD 83 NMSP EAST  
SURFACE LOCATION  
1010' FSL, 1890' FWL  
N.=681968.60  
E.=697225.39  
LAT.=32.8737219°N  
LONG.=103.8255787°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  
1010' FSL, 1890' FWL  
N.=681968.60  
E.=697225.39  
LAT.=32.8737219°N  
LONG.=103.8255787°W

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

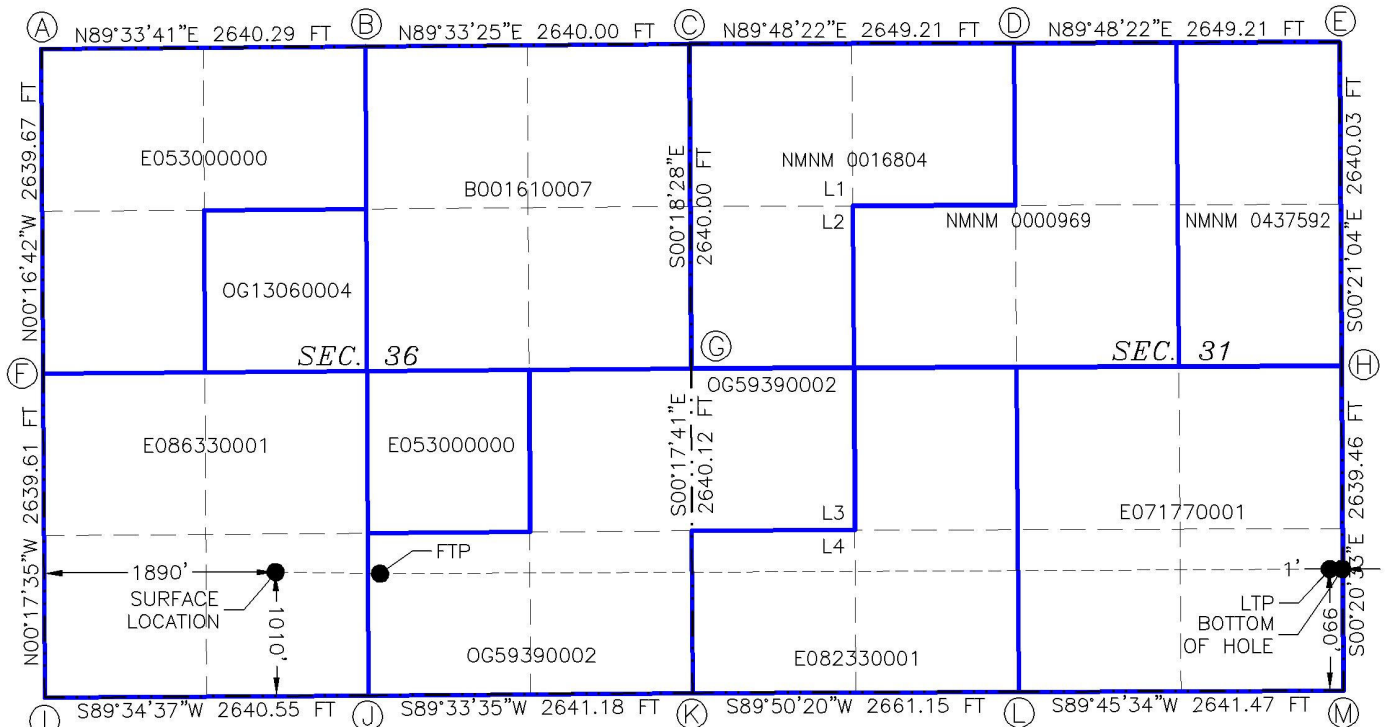
CORNER COORDINATES TABLE  
NAD 83 NMSP EAST

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

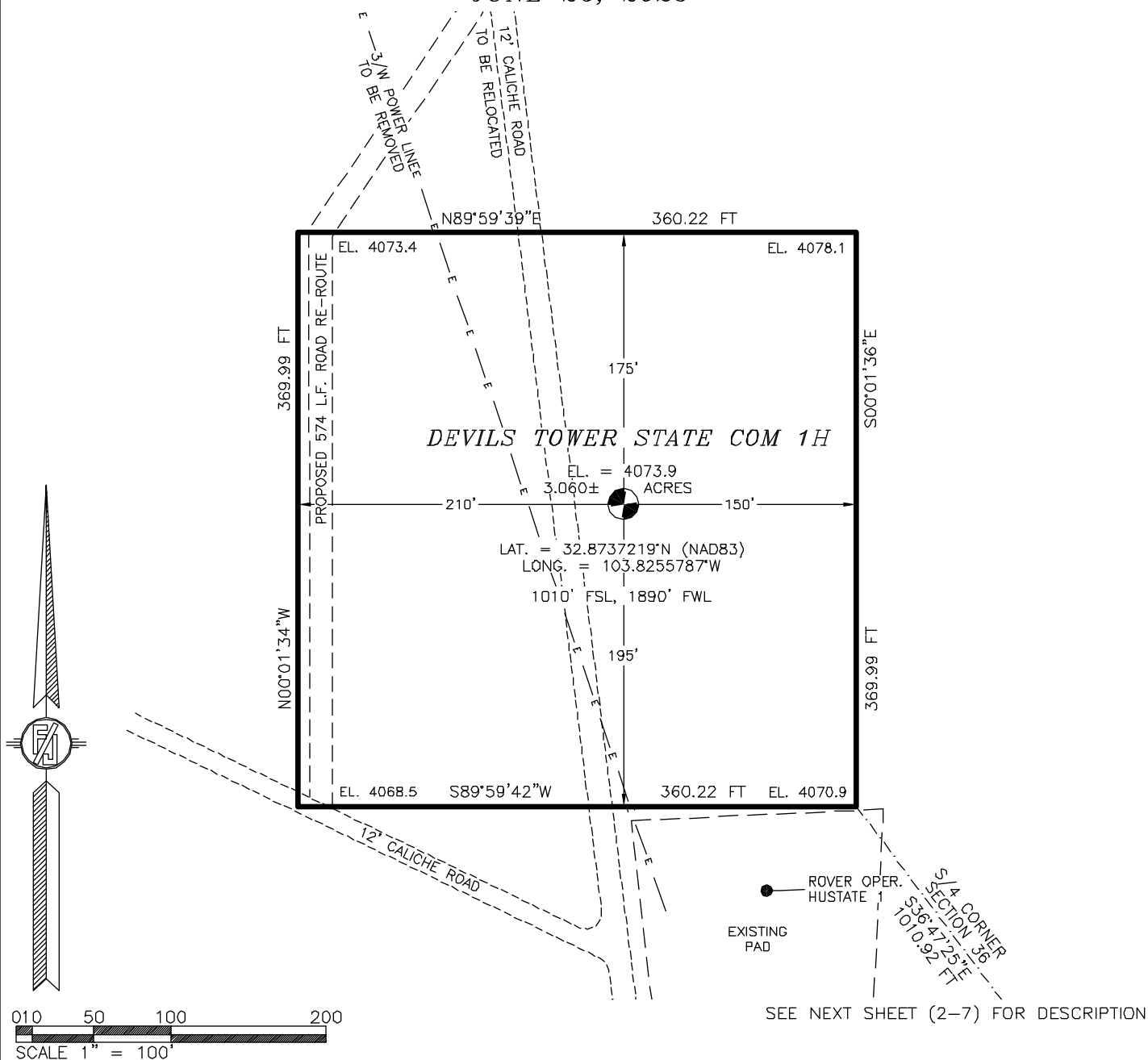
FIRST TAKE POINT  
990' FSL, 2540' FEL  
N.=681954.93  
E.=698076.96  
LAT.=32.8736730°N  
LONG.=103.8228053°W

LEGEND

--- SECTION LINE  
--- QUARTER LINE  
--- LEASE LINE  
--- WELL PATH



DEVILS TOWER STATE COM 1H  
 MACK ENERGY CORPORATION  
 IN THE N/4 SE/4 SW/4 OF  
 SECTION 36, TOWNSHIP 16 SOUTH, RANGE 31 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO  
 JUNE 26, 2025



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 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, 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 26TH DAY OF JUNE 2025

FILMON F. JARAMILLO  
 12797  
 NEW MEXICO PROFESSIONAL SURVEYOR

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

SURVEY NO. 10405A

SHEET: 1-7

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

DEVILS TOWER STATE COM 1H  
MACK ENERGY CORPORATION  
IN THE N/4 SE/4 SW/4 OF  
SECTION 36, 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 36, 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 36, 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

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

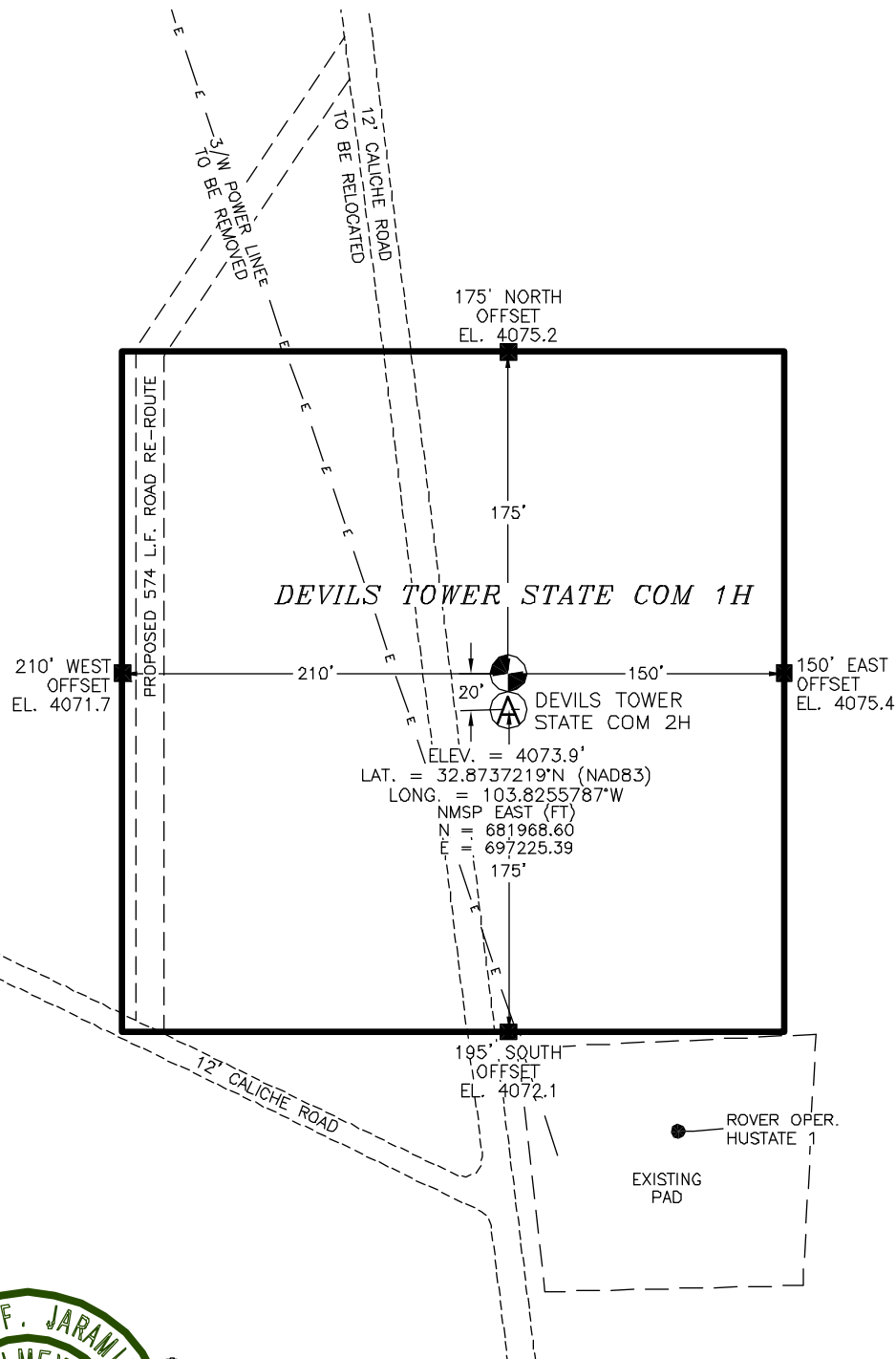
SURVEY NO. 10405A

SHEET: 2-7

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

DEVILS TOWER STATE COM 1H  
MACK ENERGY CORPORATION  
IN THE N/4 SE/4 SW/4 OF  
SECTION 36, TOWNSHIP 16 SOUTH, RANGE 31 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
JUNE 26, 2025

SITE MAP



010 50 100 200  
SCALE 1" = 100'

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

FILIMON F. JARAMILLO, P.E.

SHEET: 3

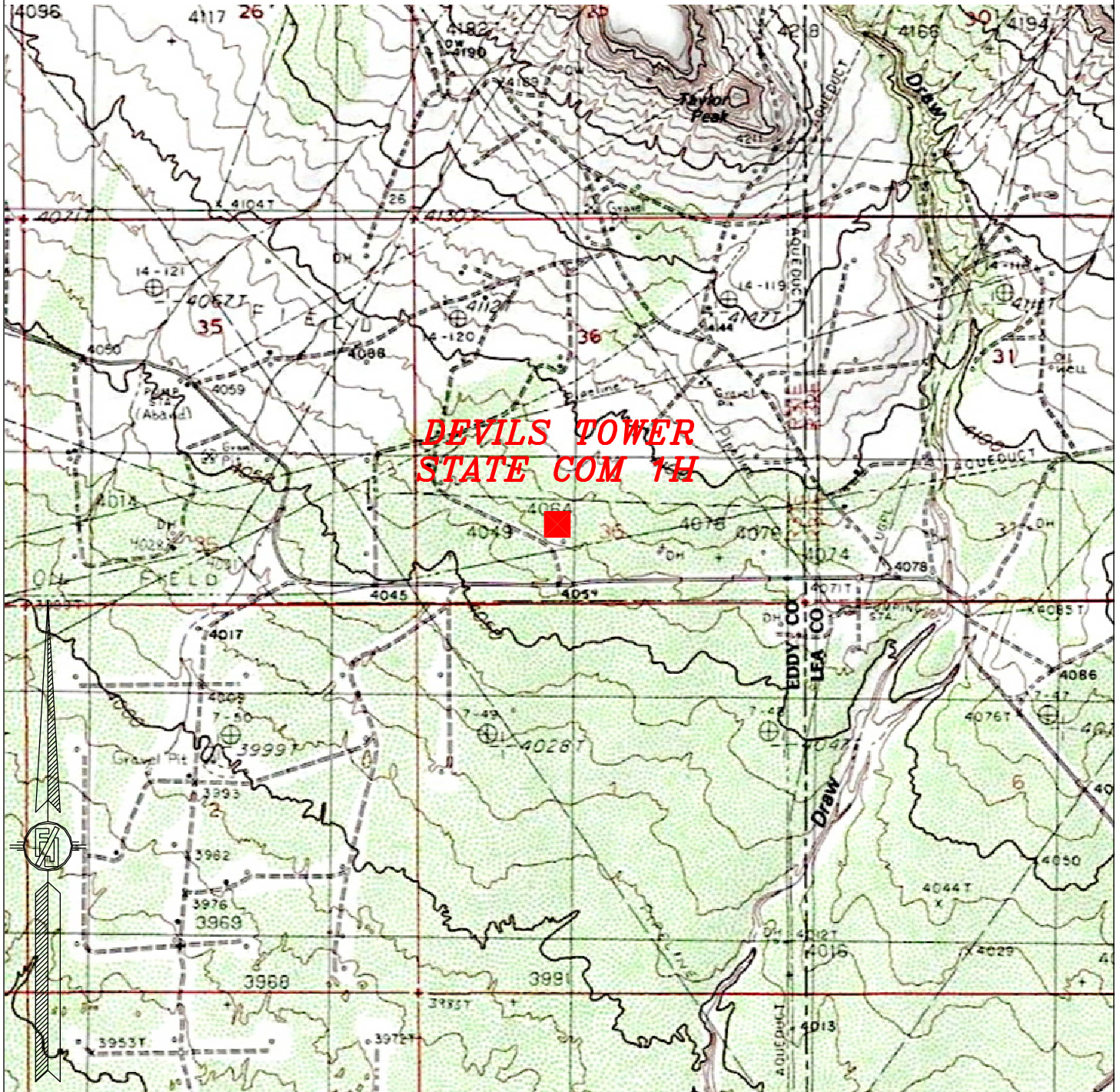
MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO (575) 234-3327

SURVEY NO. 10405A



DEVILS TOWER STATE COM 1H  
 MACK ENERGY CORPORATION  
 IN THE N/4 SE/4 SW/4 OF  
 SECTION 36, 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

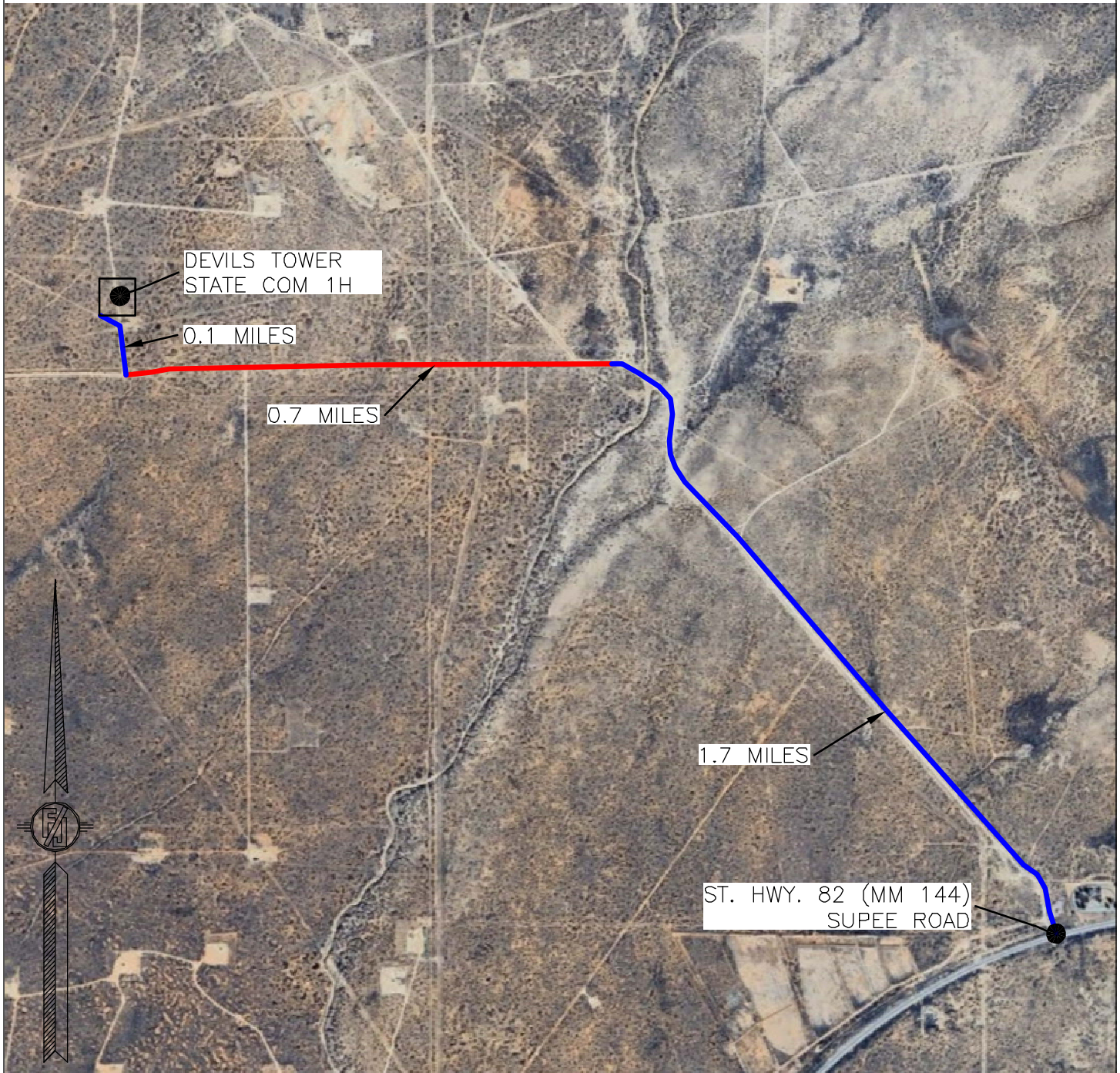
SURVEY NO. 10405A

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



DEVILS TOWER STATE COM 1H  
MACK ENERGY CORPORATION  
IN THE N/4 SE/4 SW/4 OF  
SECTION 36, 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

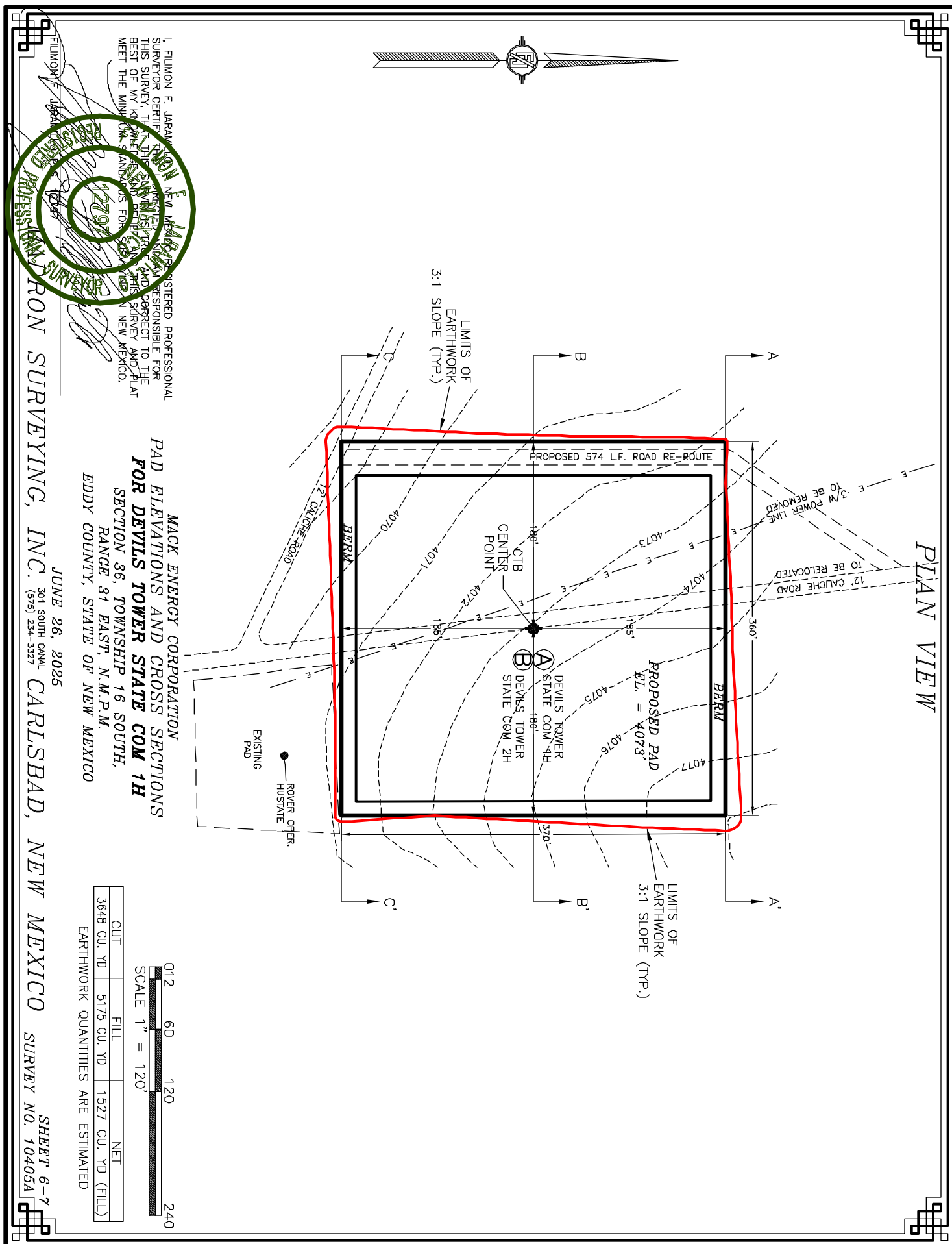
**DRIVING DIRECTIONS:** FROM THE INTERSECTION OF ST. HWY. 82 (MM 144) & SUPEE ROAD, GO NORTHWEST ON SUPEE ROAD APPROX 1.7 MILES, CONTINUE WEST ON CO. RO. RD 252 (EAST SQUARE LAKE) APPROX. 0.7 MILES, TURN RIGHT (NORTH) ON 15' CALICHE ROAD AND GO APPROX. 0.1 MILES TO THE SOUTHWEST PAD CORNER FOR THIS LOCATION.

SHEET: 5-7

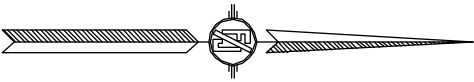
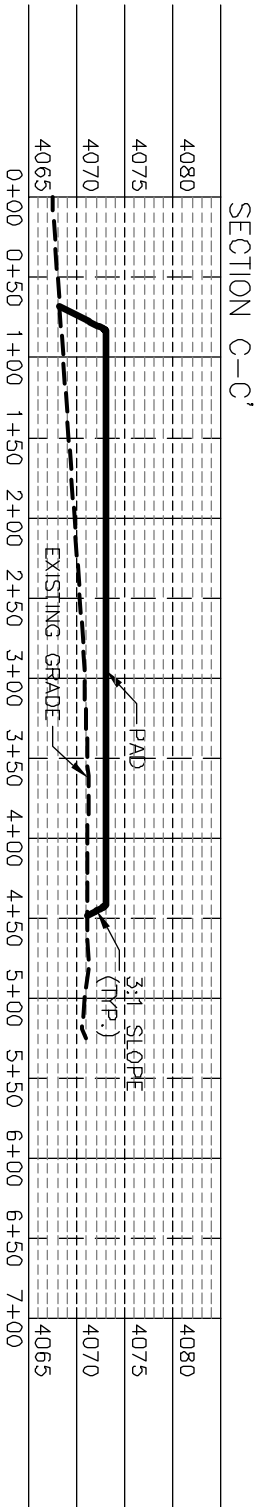
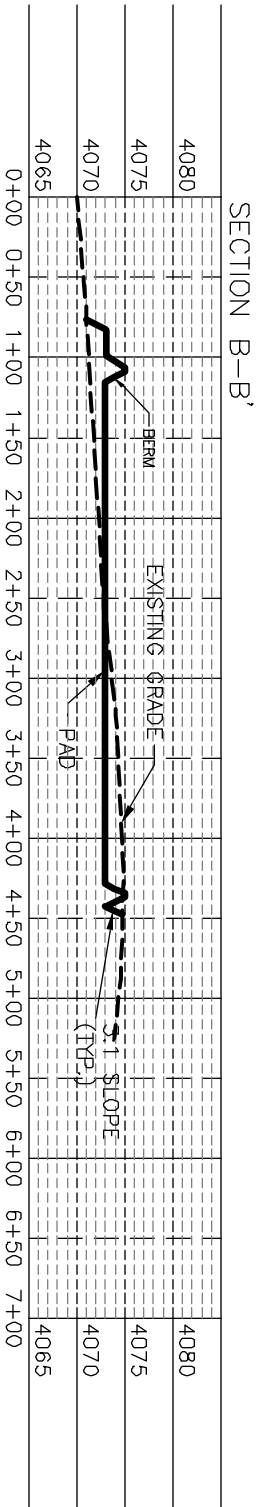
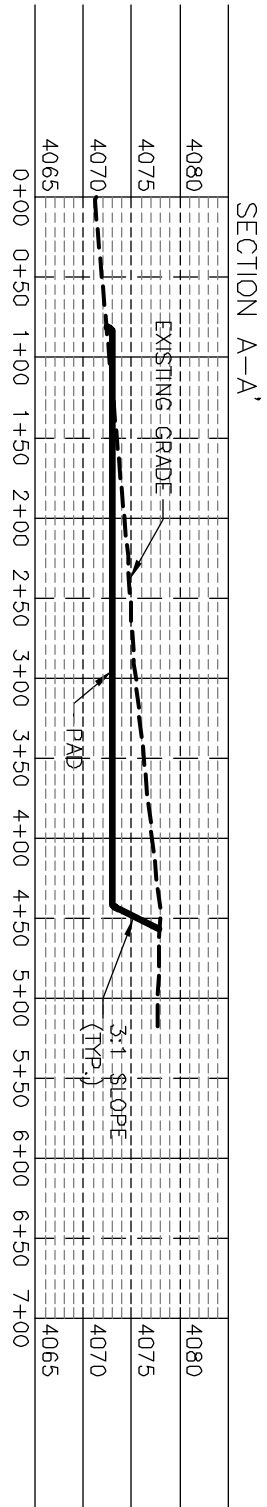
MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3327 CARLSBAD, NEW MEXICO

SURVEY NO. 10405A



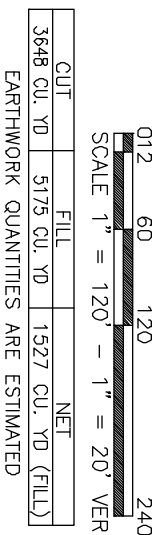


CROSS-SECTIONS



I, FILMON F. JARAN, NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFICATE NO. 12297, AM RESPONSIBLE FOR THIS SURVEY, THAT THE SURVEYING AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

MACK ENERGY CORPORATION  
PAD ELEVATIONS AND CROSS SECTIONS  
FOR DEVILS TOWER STATE COM 1H  
SECTION 36, TOWNSHIP 16 SOUTH,  
RANGE 31 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO



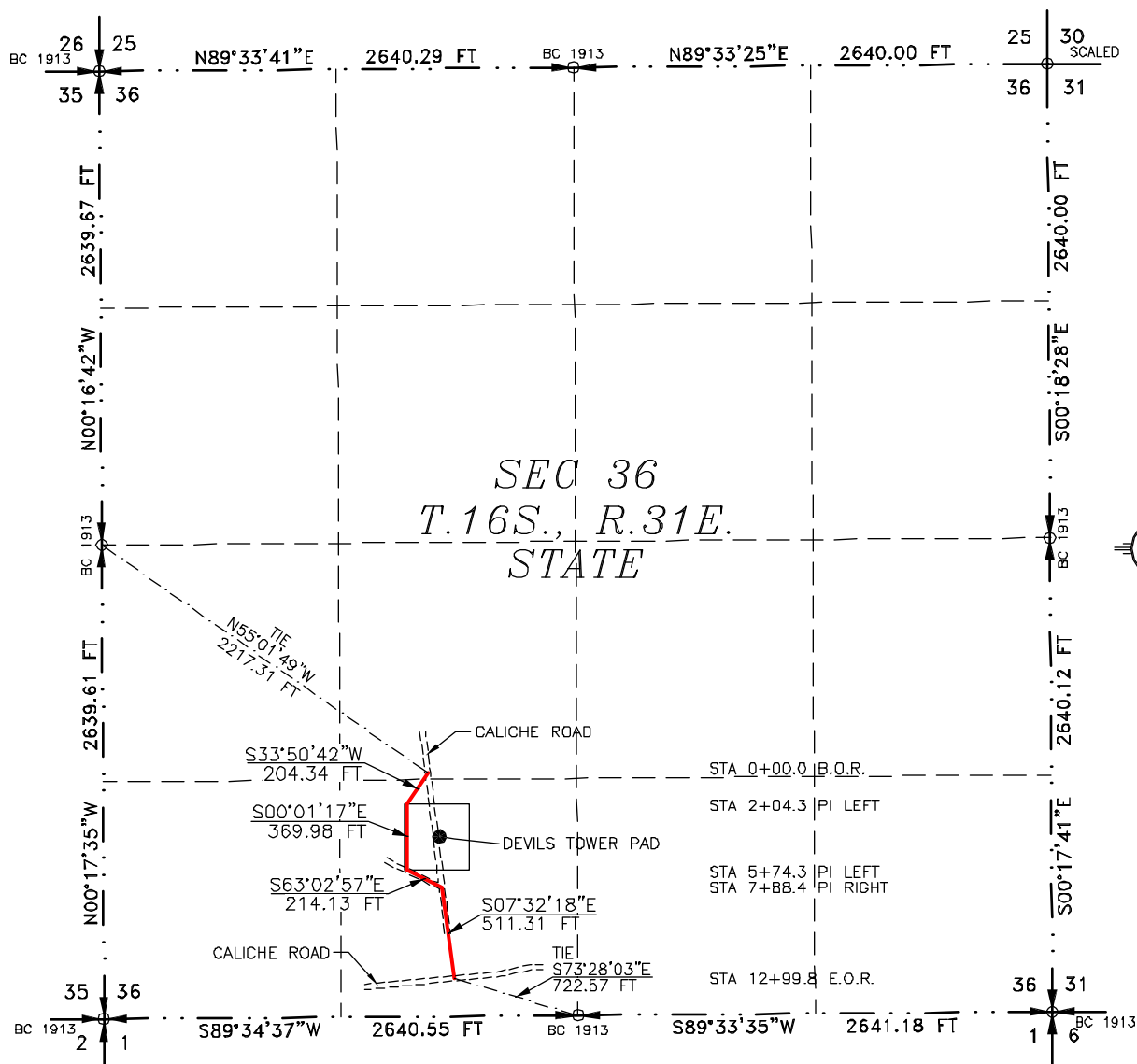
JUNE 26, 2025  
301 SOUTH CANAL  
(979) 234-3327  
CARLSBAD, NEW MEXICO  
SURVEY NO. 10405A

**ACCESS ROAD PLAT**

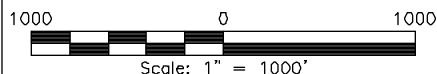
RE-ROUTE EXISTING ROAD AROUND DEVILS TOWER STATE COM 1H &amp; 2H

**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

**GENERAL NOTES**

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

SHEET: 1-2

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

**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 26th DAY OF JUNE 2025

FILMON F. JARAMILLO  
NEW MEXICO PROFESSIONAL SURVEYOR  
NO. 12797

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

SURVEY NO. 10405A

**ACCESS ROAD PLAT**

RE-ROUTE EXISTING ROAD AROUND DEVILS TOWER STATE COM 1H &amp; 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 TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;  
 THENCE S63°02'57"E A DISTANCE OF 214.13 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;  
 THENCE S07°32'18"E A DISTANCE OF 511.31 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 S73°28'03"E, A DISTANCE OF 722.57 FEET;

SAID STRIP OF LAND BEING 1299.75 FEET OR 78.77 RODS IN LENGTH, CONTAINING 0.895 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	1257.12 L.F.	76.19 RODS	0.866 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 26th DAY OF JUNE 2025

FILIMON F. JARAMILLO  
 301 SOUTH CANAL  
 CARLSBAD, NEW MEXICO 88220  
 (575) 234-3327  
 12797

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

**SURVEY NO. 10405A**

**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: 2-2**

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

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 389233

**PERMIT CONDITIONS OF APPROVAL**

Operator Name and Address: MACK ENERGY CORP [13837] P.O. Box 960 Artesia, NM 882110960	API Number: 30-015-56931
	Well: DEVILS TOWER STATE COM #001H

OCD Reviewer	Condition
jeffrey.harrison	If using a pit for drilling and completion operations, operator must have an approved pit form prior to spudding the well. If a closed loop is to be utilized, please submit a form C-103A change of plans stating such.
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 State Com #001H, Plan 1

<b>Operator</b> Mack Energy Corp	<b>Units</b> feet, °/100ft	09:17 Wednesday, May 7, 2025 Page 1 of 6
<b>Field</b>	<b>County</b> Eddy/Lea	<b>Vertical Section Azimuth</b> 89.69
<b>Well Name</b> Devils Tower State Com #001H	<b>State</b> New Mexico	<b>Survey Calculation Method</b> Minimum Curvature
<b>Plan</b> 1	<b>Country</b> USA	<b>Database</b> Access

<b>Location</b> SL: 1010 FSL & 1890 FWL Section 36-T16S-R31E BHL: 990 FSL & 1 FEL Section 31-T16S-32E	<b>Map Zone</b> UTM	<b>Lat Long Ref</b>
<b>Site</b>	<b>Surface X</b> 2001043.3	<b>Surface Long</b>
<b>Slot Name</b>	<b>Surface Y</b> 11934639.9	<b>Surface Lat</b>
<b>Well Number</b>	<b>Surface Z</b> 4091	<b>Global Z Ref</b> KB
<b>Project</b>	<b>Ground Level</b> 4074	<b>Local North Ref</b> Grid

## DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft
*** TIE (at MD = 4500.00)										
4500.00	0.00	0.0	4500.00	0.00	0.00		0.00	2001043.30	11934639.90	-409.00
4550.00	0.00	0.0	4550.00	0.00	0.00	0.00	0.00	2001043.30	11934639.90	-459.00
*** KOP 8 DEGREE (at MD = 4600.00)										
4600.00	0.00	0.0	4600.00	0.00	0.00	0.00	0.00	2001043.30	11934639.90	-509.00
4650.00	4.00	91.8	4649.96	-0.06	1.74	8.00	1.74	2001045.04	11934639.84	-558.96
4700.00	8.00	91.8	4699.68	-0.22	6.97	8.00	6.97	2001050.27	11934639.68	-608.68
4750.00	12.00	91.8	4748.91	-0.50	15.64	8.00	15.64	2001058.94	11934639.40	-657.91
4800.00	16.00	91.8	4797.41	-0.89	27.73	8.00	27.72	2001071.03	11934639.01	-706.41
4850.00	20.00	91.8	4844.95	-1.39	43.17	8.00	43.16	2001086.47	11934638.51	-753.95
4900.00	24.00	91.8	4891.30	-1.99	61.89	8.00	61.87	2001105.19	11934637.91	-800.30
4950.00	28.00	91.8	4936.23	-2.69	83.79	8.00	83.77	2001127.09	11934637.21	-845.23
5000.00	32.00	91.8	4979.53	-3.49	108.77	8.00	108.75	2001152.07	11934636.41	-888.53
5050.00	36.00	91.8	5020.97	-4.39	136.71	8.00	136.69	2001180.01	11934635.51	-929.97
5100.00	40.00	91.8	5060.36	-5.38	167.47	8.00	167.44	2001210.77	11934634.52	-969.36
5150.00	44.00	91.8	5097.51	-6.45	200.90	8.00	200.87	2001244.20	11934633.45	-1006.51
5200.00	48.00	91.8	5132.24	-7.61	236.85	8.00	236.80	2001280.15	11934632.29	-1041.24
5250.00	52.00	91.8	5164.37	-8.84	275.12	8.00	275.07	2001318.42	11934631.06	-1073.37
*** 55 DEGREE TANGENT (at MD = 5287.50)										
5287.50	55.00	91.8	5186.67	-9.81	305.25	8.00	305.19	2001348.55	11934630.09	-1095.67
5300.00	55.00	91.8	5193.84	-10.13	315.48	0.00	315.42	2001358.78	11934629.77	-1102.84
5350.00	55.00	91.8	5222.52	-11.45	356.42	0.00	356.35	2001399.72	11934628.45	-1131.52
5400.00	55.00	91.8	5251.20	-12.77	397.35	0.00	397.28	2001440.65	11934627.14	-1160.20
5450.00	55.00	91.8	5279.88	-14.08	438.29	0.00	438.21	2001481.59	11934625.82	-1188.88
5500.00	55.00	91.8	5308.56	-15.40	479.23	0.00	479.14	2001522.53	11934624.50	-1217.56
*** 10 DEGREE BUILD (at MD = 5537.50)										
5537.50	55.00	91.8	5330.07	-16.38	509.93	0.00	509.83	2001553.23	11934623.52	-1239.07
5550.00	56.25	91.7	5337.13	-16.70	520.24	10.00	520.14	2001563.54	11934623.20	-1246.13
5600.00	61.24	91.4	5363.06	-17.86	562.95	10.00	562.85	2001606.25	11934622.04	-1272.06
5650.00	66.23	91.0	5385.18	-18.80	607.77	10.00	607.66	2001651.07	11934621.10	-1294.18
5700.00	71.22	90.7	5403.32	-19.51	654.34	10.00	654.22	2001697.64	11934620.39	-1312.32
5750.00	76.21	90.4	5417.34	-19.98	702.31	10.00	702.20	2001745.61	11934619.92	-1326.34
5800.00	81.20	90.1	5427.12	-20.23	751.33	10.00	751.21	2001794.63	11934619.67	-1336.12
5850.00	86.20	89.9	5432.61	-20.23	801.01	10.00	800.89	2001844.31	11934619.67	-1341.61
*** LANDING POINT (at MD = 5883.08)										
5883.08	89.50	89.7	5433.85	-20.10	834.07	10.00	833.95	2001877.37	11934619.80	-1342.85
5900.00	89.50	89.7	5434.00	-20.01	850.98	0.00	850.86	2001894.28	11934619.89	-1343.00
5950.00	89.50	89.7	5434.44	-19.74	900.98	0.00	900.86	2001944.28	11934620.16	-1343.44
6000.00	89.50	89.7	5434.87	-19.47	950.98	0.00	950.86	2001994.28	11934620.43	-1343.87

# Devils Tower State Com #1H, Plan 1

<b>Operator</b>	Mack Energy Corp			<b>Units</b>	feet, °/100ft		09:17 Wednesday, May 7, 2025 Page 2 of 6			
<b>Field</b>				<b>County</b>	Eddy/Lea		<b>Vertical Section Azimuth</b>	89.69		
<b>Well Name</b>	Devils Tower P State Com #1H			<b>State</b>	New Mexico		<b>Survey Calculation Method</b>	Minimum Curvature		
<b>Plan</b>	1			<b>Country</b>	USA		<b>Database</b>	Access		
<b>Location</b>	SL: 1010 FSL & 1890 FWL Section 36-T16S-R31E BHL: 990 FSL & 1 FEL Section 31-T16S-32E					<b>Map Zone</b>	UTM		<b>Lat Long Ref</b>	
<b>Site</b>						<b>Surface X</b>	2001043.3		<b>Surface Long</b>	
<b>Slot Name</b>						<b>Surface Y</b>	11934639.9		<b>Surface Lat</b>	
<b>Well Number</b>						<b>Surface Z</b>	4091		<b>Global Z Ref</b> KB	
<b>Project</b>						<b>Ground Level</b>	4074		<b>Local North Ref</b> Grid	
<b>DIRECTIONAL WELL PLAN</b>										
<b>MD*</b>	<b>INC*</b>	<b>AZI*</b>	<b>TVD*</b>	<b>N*</b>	<b>E*</b>	<b>DLS*</b>	<b>V. S.*</b>	<b>MapE*</b>	<b>MapN*</b>	<b>SysTVD*</b>
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft
6050.00	89.50	89.7	5435.31	-19.20	1000.98	0.00	1000.86	2002044.28	11934620.70	-1344.31
6100.00	89.50	89.7	5435.74	-18.93	1050.97	0.00	1050.85	2002094.27	11934620.97	-1344.74
6150.00	89.50	89.7	5436.18	-18.66	1100.97	0.00	1100.85	2002144.27	11934621.24	-1345.18
6200.00	89.50	89.7	5436.62	-18.39	1150.97	0.00	1150.85	2002194.27	11934621.51	-1345.62
6250.00	89.50	89.7	5437.05	-18.12	1200.96	0.00	1200.85	2002244.26	11934621.78	-1346.05
6300.00	89.50	89.7	5437.49	-17.85	1250.96	0.00	1250.85	2002294.26	11934622.05	-1346.49
6350.00	89.50	89.7	5437.93	-17.58	1300.96	0.00	1300.85	2002344.26	11934622.32	-1346.93
6400.00	89.50	89.7	5438.36	-17.31	1350.96	0.00	1350.84	2002394.26	11934622.59	-1347.36
6450.00	89.50	89.7	5438.80	-17.04	1400.95	0.00	1400.84	2002444.25	11934622.86	-1347.80
6500.00	89.50	89.7	5439.23	-16.77	1450.95	0.00	1450.84	2002494.25	11934623.13	-1348.23
6550.00	89.50	89.7	5439.67	-16.50	1500.95	0.00	1500.84	2002544.25	11934623.40	-1348.67
6600.00	89.50	89.7	5440.11	-16.23	1550.95	0.00	1550.84	2002594.25	11934623.67	-1349.11
6650.00	89.50	89.7	5440.54	-15.96	1600.94	0.00	1600.83	2002644.24	11934623.94	-1349.54
6700.00	89.50	89.7	5440.98	-15.69	1650.94	0.00	1650.83	2002694.24	11934624.21	-1349.98
6750.00	89.50	89.7	5441.42	-15.41	1700.94	0.00	1700.83	2002744.24	11934624.49	-1350.42
6800.00	89.50	89.7	5441.85	-15.14	1750.94	0.00	1750.83	2002794.24	11934624.76	-1350.85
6850.00	89.50	89.7	5442.29	-14.87	1800.93	0.00	1800.83	2002844.23	11934625.03	-1351.29
6900.00	89.50	89.7	5442.73	-14.60	1850.93	0.00	1850.82	2002894.23	11934625.30	-1351.73
6950.00	89.50	89.7	5443.16	-14.33	1900.93	0.00	1900.82	2002944.23	11934625.57	-1352.16
7000.00	89.50	89.7	5443.60	-14.06	1950.93	0.00	1950.82	2002994.23	11934625.84	-1352.60
7050.00	89.50	89.7	5444.03	-13.79	2000.92	0.00	2000.82	2003044.22	11934626.11	-1353.03
7100.00	89.50	89.7	5444.47	-13.52	2050.92	0.00	2050.82	2003094.22	11934626.38	-1353.47
7150.00	89.50	89.7	5444.91	-13.25	2100.92	0.00	2100.81	2003144.22	11934626.65	-1353.91
7200.00	89.50	89.7	5445.34	-12.98	2150.91	0.00	2150.81	2003194.21	11934626.92	-1354.34
7250.00	89.50	89.7	5445.78	-12.71	2200.91	0.00	2200.81	2003244.21	11934627.19	-1354.78
7300.00	89.50	89.7	5446.22	-12.44	2250.91	0.00	2250.81	2003294.21	11934627.46	-1355.22
7350.00	89.50	89.7	5446.65	-12.17	2300.91	0.00	2300.81	2003344.21	11934627.73	-1355.65
7400.00	89.50	89.7	5447.09	-11.90	2350.90	0.00	2350.81	2003394.20	11934628.00	-1356.09
7450.00	89.50	89.7	5447.52	-11.63	2400.90	0.00	2400.80	2003444.20	11934628.27	-1356.52
7500.00	89.50	89.7	5447.96	-11.36	2450.90	0.00	2450.80	2003494.20	11934628.54	-1356.96
7550.00	89.50	89.7	5448.40	-11.09	2500.90	0.00	2500.80	2003544.20	11934628.81	-1357.40
7600.00	89.50	89.7	5448.83	-10.82	2550.89	0.00	2550.80	2003594.19	11934629.08	-1357.83
7650.00	89.50	89.7	5449.27	-10.55	2600.89	0.00	2600.80	2003644.19	11934629.35	-1358.27
7700.00	89.50	89.7	5449.71	-10.27	2650.89	0.00	2650.79	2003694.19	11934629.63	-1358.71
7750.00	89.50	89.7	5450.14	-10.00	2700.89	0.00	2700.79	2003744.19	11934629.90	-1359.14
7800.00	89.50	89.7	5450.58	-9.73	2750.88	0.00	2750.79	2003794.18	11934630.17	-1359.58
7850.00	89.50	89.7	5451.02	-9.46	2800.88	0.00	2800.79	2003844.18	11934630.44	-1360.02



## Devils Tower State Com #1H, Plan 1

Operator	Mack Energy Corp			Units	feet, °/100ft		09:17 Wednesday, May 7, 2025 Page 3 of 6			
Field				County	Eddy/Lea		Vertical Section Azimuth 89.69			
Well Name	Devils Tower P State Com #1H			State	New Mexico		Survey Calculation Method Minimum Curvature			
Plan	1			Country	USA		Database Access			
Location	SL: 1010 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	2001043.3		Surface Long	
Slot Name						Surface Y	11934639.9		Surface Lat	
Well Number						Surface Z	4091		Global Z Ref KB	
Project						MD/TVD Ref	KB		Ground Level 4074	
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
7900.00	89.50	89.7	5451.45	-9.19	2850.88	0.00	2850.79	2003894.18	11934630.71	-1360.45
7950.00	89.50	89.7	5451.89	-8.92	2900.88	0.00	2900.78	2003944.18	11934630.98	-1360.89
8000.00	89.50	89.7	5452.32	-8.65	2950.87	0.00	2950.78	2003994.17	11934631.25	-1361.32
8050.00	89.50	89.7	5452.76	-8.38	3000.87	0.00	3000.78	2004044.17	11934631.52	-1361.76
8100.00	89.50	89.7	5453.20	-8.11	3050.87	0.00	3050.78	2004094.17	11934631.79	-1362.20
8150.00	89.50	89.7	5453.63	-7.84	3100.86	0.00	3100.78	2004144.16	11934632.06	-1362.63
8200.00	89.50	89.7	5454.07	-7.57	3150.86	0.00	3150.77	2004194.16	11934632.33	-1363.07
8250.00	89.50	89.7	5454.51	-7.30	3200.86	0.00	3200.77	2004244.16	11934632.60	-1363.51
8300.00	89.50	89.7	5454.94	-7.03	3250.86	0.00	3250.77	2004294.16	11934632.87	-1363.94
8350.00	89.50	89.7	5455.38	-6.76	3300.85	0.00	3300.77	2004344.15	11934633.14	-1364.38
8400.00	89.50	89.7	5455.82	-6.49	3350.85	0.00	3350.77	2004394.15	11934633.41	-1364.82
8450.00	89.50	89.7	5456.25	-6.22	3400.85	0.00	3400.77	2004444.15	11934633.68	-1365.25
8500.00	89.50	89.7	5456.69	-5.95	3450.85	0.00	3450.76	2004494.15	11934633.95	-1365.69
8550.00	89.50	89.7	5457.12	-5.68	3500.84	0.00	3500.76	2004544.14	11934634.22	-1366.12
8600.00	89.50	89.7	5457.56	-5.41	3550.84	0.00	3550.76	2004594.14	11934634.49	-1366.56
8650.00	89.50	89.7	5458.00	-5.14	3600.84	0.00	3600.76	2004644.14	11934634.76	-1367.00
8700.00	89.50	89.7	5458.43	-4.86	3650.84	0.00	3650.76	2004694.14	11934635.04	-1367.43
8750.00	89.50	89.7	5458.87	-4.59	3700.83	0.00	3700.75	2004744.13	11934635.31	-1367.87
8800.00	89.50	89.7	5459.31	-4.32	3750.83	0.00	3750.75	2004794.13	11934635.58	-1368.31
8850.00	89.50	89.7	5459.74	-4.05	3800.83	0.00	3800.75	2004844.13	11934635.85	-1368.74
8900.00	89.50	89.7	5460.18	-3.78	3850.83	0.00	3850.75	2004894.13	11934636.12	-1369.18
8950.00	89.50	89.7	5460.61	-3.51	3900.82	0.00	3900.75	2004944.12	11934636.39	-1369.61
9000.00	89.50	89.7	5461.05	-3.24	3950.82	0.00	3950.74	2004994.12	11934636.66	-1370.05
9050.00	89.50	89.7	5461.49	-2.97	4000.82	0.00	4000.74	2005044.12	11934636.93	-1370.49
9100.00	89.50	89.7	5461.92	-2.70	4050.81	0.00	4050.74	2005094.11	11934637.20	-1370.92
9150.00	89.50	89.7	5462.36	-2.43	4100.81	0.00	4100.74	2005144.11	11934637.47	-1371.36
9200.00	89.50	89.7	5462.80	-2.16	4150.81	0.00	4150.74	2005194.11	11934637.74	-1371.80
9250.00	89.50	89.7	5463.23	-1.89	4200.81	0.00	4200.73	2005244.11	11934638.01	-1372.23
9300.00	89.50	89.7	5463.67	-1.62	4250.80	0.00	4250.73	2005294.10	11934638.28	-1372.67
9350.00	89.50	89.7	5464.11	-1.35	4300.80	0.00	4300.73	2005344.10	11934638.55	-1373.11
9400.00	89.50	89.7	5464.54	-1.08	4350.80	0.00	4350.73	2005394.10	11934638.82	-1373.54
9450.00	89.50	89.7	5464.98	-0.81	4400.80	0.00	4400.73	2005444.10	11934639.09	-1373.98
9500.00	89.50	89.7	5465.41	-0.54	4450.79	0.00	4450.73	2005494.09	11934639.36	-1374.41
9550.00	89.50	89.7	5465.85	-0.27	4500.79	0.00	4500.72	2005544.09	11934639.63	-1374.85
9600.00	89.50	89.7	5466.29	0.00	4550.79	0.00	4550.72	2005594.09	11934639.90	-1375.29
9650.00	89.50	89.7	5466.72	0.28	4600.79	0.00	4600.72	2005644.09	11934640.18	-1375.72
9700.00	89.50	89.7	5467.16	0.55	4650.78	0.00	4650.72	2005694.08	11934640.45	-1376.16



## Devils Tower State Com #1H, Plan 1

Operator	Mack Energy Corp			Units	feet, °/100ft		09:17 Wednesday, May 7, 2025 Page 4 of 6				
Field				County	Eddy/Lea		Vertical Section Azimuth		89.69		
Well Name	Devils Tower P State Com #1H			State	New Mexico		Survey Calculation Method		Minimum Curvature		
Plan	1			Country	USA		Database		Access		
Location	SL: 1010 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	2001043.3		Surface Long		
Slot Name						Surface Y	11934639.9		Surface Lat		
Well Number						Surface Z	4091		Global Z Ref KB		
Project						MD/TVD Ref	KB		Ground Level 4074		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	
9750.00	89.50	89.7	5467.60	0.82	4700.78	0.00	4700.72	2005744.08	11934640.72	-1376.60	
9800.00	89.50	89.7	5468.03	1.09	4750.78	0.00	4750.71	2005794.08	11934640.99	-1377.03	
9850.00	89.50	89.7	5468.47	1.36	4800.78	0.00	4800.71	2005844.08	11934641.26	-1377.47	
9900.00	89.50	89.7	5468.90	1.63	4850.77	0.00	4850.71	2005894.07	11934641.53	-1377.90	
9950.00	89.50	89.7	5469.34	1.90	4900.77	0.00	4900.71	2005944.07	11934641.80	-1378.34	
10000.00	89.50	89.7	5469.78	2.17	4950.77	0.00	4950.71	2005994.07	11934642.07	-1378.78	
10050.00	89.50	89.7	5470.21	2.44	5000.76	0.00	5000.70	2006044.06	11934642.34	-1379.21	
10100.00	89.50	89.7	5470.65	2.71	5050.76	0.00	5050.70	2006094.06	11934642.61	-1379.65	
10150.00	89.50	89.7	5471.09	2.98	5100.76	0.00	5100.70	2006144.06	11934642.88	-1380.09	
10200.00	89.50	89.7	5471.52	3.25	5150.76	0.00	5150.70	2006194.06	11934643.15	-1380.52	
10250.00	89.50	89.7	5471.96	3.52	5200.75	0.00	5200.70	2006244.05	11934643.42	-1380.96	
10300.00	89.50	89.7	5472.40	3.79	5250.75	0.00	5250.69	2006294.05	11934643.69	-1381.40	
10350.00	89.50	89.7	5472.83	4.06	5300.75	0.00	5300.69	2006344.05	11934643.96	-1381.83	
10400.00	89.50	89.7	5473.27	4.33	5350.75	0.00	5350.69	2006394.05	11934644.23	-1382.27	
10450.00	89.50	89.7	5473.70	4.60	5400.74	0.00	5400.69	2006444.04	11934644.50	-1382.70	
10500.00	89.50	89.7	5474.14	4.87	5450.74	0.00	5450.69	2006494.04	11934644.77	-1383.14	
10550.00	89.50	89.7	5474.58	5.14	5500.74	0.00	5500.69	2006544.04	11934645.04	-1383.58	
10600.00	89.50	89.7	5475.01	5.41	5550.74	0.00	5550.68	2006594.04	11934645.31	-1384.01	
10650.00	89.50	89.7	5475.45	5.69	5600.73	0.00	5600.68	2006644.03	11934645.59	-1384.45	
10700.00	89.50	89.7	5475.89	5.96	5650.73	0.00	5650.68	2006694.03	11934645.86	-1384.89	
10750.00	89.50	89.7	5476.32	6.23	5700.73	0.00	5700.68	2006744.03	11934646.13	-1385.32	
10800.00	89.50	89.7	5476.76	6.50	5750.72	0.00	5750.68	2006794.02	11934646.40	-1385.76	
10850.00	89.50	89.7	5477.20	6.77	5800.72	0.00	5800.67	2006844.02	11934646.67	-1386.20	
10900.00	89.50	89.7	5477.63	7.04	5850.72	0.00	5850.67	2006894.02	11934646.94	-1386.63	
10950.00	89.50	89.7	5478.07	7.31	5900.72	0.00	5900.67	2006944.02	11934647.21	-1387.07	
11000.00	89.50	89.7	5478.50	7.58	5950.71	0.00	5950.67	2006994.01	11934647.48	-1387.50	
11050.00	89.50	89.7	5478.94	7.85	6000.71	0.00	6000.67	2007044.01	11934647.75	-1387.94	
11100.00	89.50	89.7	5479.38	8.12	6050.71	0.00	6050.66	2007094.01	11934648.02	-1388.38	
11150.00	89.50	89.7	5479.81	8.39	6100.71	0.00	6100.66	2007144.01	11934648.29	-1388.81	
11200.00	89.50	89.7	5480.25	8.66	6150.70	0.00	6150.66	2007194.00	11934648.56	-1389.25	
11250.00	89.50	89.7	5480.69	8.93	6200.70	0.00	6200.66	2007244.00	11934648.83	-1389.69	
11300.00	89.50	89.7	5481.12	9.20	6250.70	0.00	6250.66	2007294.00	11934649.10	-1390.12	
11350.00	89.50	89.7	5481.56	9.47	6300.70	0.00	6300.65	2007344.00	11934649.37	-1390.56	
11400.00	89.50	89.7	5481.99	9.74	6350.69	0.00	6350.65	2007393.99	11934649.64	-1390.99	
11450.00	89.50	89.7	5482.43	10.01	6400.69	0.00	6400.65	2007443.99	11934649.91	-1391.43	
11500.00	89.50	89.7	5482.87	10.28	6450.69	0.00	6450.65	2007493.99	11934650.18	-1391.87	
11550.00	89.50	89.7	5483.30	10.55	6500.69	0.00	6500.65	2007543.99	11934650.45	-1392.30	

## Devils Tower State Com #1H, Plan 1

<b>Operator</b>	Mack Energy Corp			<b>Units</b>	feet, °/100ft		09:17 Wednesday, May 7, 2025 Page 5 of 6			
<b>Field</b>				<b>County</b>	Eddy/Lea		<b>Vertical Section Azimuth</b>	89.69		
<b>Well Name</b>	Devils Tower P State Com #1H			<b>State</b>	New Mexico		<b>Survey Calculation Method</b>	Minimum Curvature		
<b>Plan</b>	1			<b>Country</b>	USA		<b>Database</b>	Access		
<b>Location</b>	SL: 1010 FSL & 1890 FWL Section 36-T16S-R31E BHL: 990 FSL & 1 FEL Section 31-T16S-32E					<b>Map Zone</b>	UTM		<b>Lat Long Ref</b>	
<b>Site</b>						<b>Surface X</b>	2001043.3		<b>Surface Long</b>	
<b>Slot Name</b>						<b>Surface Y</b>	11934639.9		<b>Surface Lat</b>	
<b>Well Number</b>						<b>Surface Z</b>	4091		<b>Global Z Ref</b> KB	
<b>Project</b>						<b>MD/TVD Ref</b>	KB		<b>Local North Ref</b> Grid	
<b>DIRECTIONAL WELL PLAN</b>										
<b>MD*</b>	<b>INC*</b>	<b>AZI*</b>	<b>TVD*</b>	<b>N*</b>	<b>E*</b>	<b>DLS*</b>	<b>V. S.*</b>	<b>MapE*</b>	<b>MapN*</b>	<b>SysTVD*</b>
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft
11600.00	89.50	89.7	5483.74	10.83	6550.68	0.00	6550.65	2007593.98	11934650.73	-1392.74
11650.00	89.50	89.7	5484.18	11.10	6600.68	0.00	6600.64	2007643.98	11934651.00	-1393.18
11700.00	89.50	89.7	5484.61	11.37	6650.68	0.00	6650.64	2007693.98	11934651.27	-1393.61
11750.00	89.50	89.7	5485.05	11.64	6700.67	0.00	6700.64	2007743.97	11934651.54	-1394.05
11800.00	89.50	89.7	5485.49	11.91	6750.67	0.00	6750.64	2007793.97	11934651.81	-1394.49
11850.00	89.50	89.7	5485.92	12.18	6800.67	0.00	6800.64	2007843.97	11934652.08	-1394.92
11900.00	89.50	89.7	5486.36	12.45	6850.67	0.00	6850.63	2007893.97	11934652.35	-1395.36
11950.00	89.50	89.7	5486.79	12.72	6900.66	0.00	6900.63	2007943.96	11934652.62	-1395.79
12000.00	89.50	89.7	5487.23	12.99	6950.66	0.00	6950.63	2007993.96	11934652.89	-1396.23
12050.00	89.50	89.7	5487.67	13.26	7000.66	0.00	7000.63	2008043.96	11934653.16	-1396.67
12100.00	89.50	89.7	5488.10	13.53	7050.66	0.00	7050.63	2008093.96	11934653.43	-1397.10
12150.00	89.50	89.7	5488.54	13.80	7100.65	0.00	7100.62	2008143.95	11934653.70	-1397.54
12200.00	89.50	89.7	5488.98	14.07	7150.65	0.00	7150.62	2008193.95	11934653.97	-1397.98
12250.00	89.50	89.7	5489.41	14.34	7200.65	0.00	7200.62	2008243.95	11934654.24	-1398.41
12300.00	89.50	89.7	5489.85	14.61	7250.65	0.00	7250.62	2008293.95	11934654.51	-1398.85
12350.00	89.50	89.7	5490.28	14.88	7300.64	0.00	7300.62	2008343.94	11934654.78	-1399.28
12400.00	89.50	89.7	5490.72	15.15	7350.64	0.00	7350.62	2008393.94	11934655.05	-1399.72
12450.00	89.50	89.7	5491.16	15.42	7400.64	0.00	7400.61	2008443.94	11934655.32	-1400.16
12500.00	89.50	89.7	5491.59	15.69	7450.64	0.00	7450.61	2008493.94	11934655.59	-1400.59
12550.00	89.50	89.7	5492.03	15.97	7500.63	0.00	7500.61	2008543.93	11934655.87	-1401.03
12600.00	89.50	89.7	5492.47	16.24	7550.63	0.00	7550.61	2008593.93	11934656.14	-1401.47
12650.00	89.50	89.7	5492.90	16.51	7600.63	0.00	7600.61	2008643.93	11934656.41	-1401.90
12700.00	89.50	89.7	5493.34	16.78	7650.62	0.00	7650.60	2008693.92	11934656.68	-1402.34
12750.00	89.50	89.7	5493.78	17.05	7700.62	0.00	7700.60	2008743.92	11934656.95	-1402.78
12800.00	89.50	89.7	5494.21	17.32	7750.62	0.00	7750.60	2008793.92	11934657.22	-1403.21
12850.00	89.50	89.7	5494.65	17.59	7800.62	0.00	7800.60	2008843.92	11934657.49	-1403.65
12900.00	89.50	89.7	5495.08	17.86	7850.61	0.00	7850.60	2008893.91	11934657.76	-1404.08
12950.00	89.50	89.7	5495.52	18.13	7900.61	0.00	7900.59	2008943.91	11934658.03	-1404.52
13000.00	89.50	89.7	5495.96	18.40	7950.61	0.00	7950.59	2008993.91	11934658.30	-1404.96
13050.00	89.50	89.7	5496.39	18.67	8000.61	0.00	8000.59	2009043.91	11934658.57	-1405.39
13100.00	89.50	89.7	5496.83	18.94	8050.60	0.00	8050.59	2009093.90	11934658.84	-1405.83
13150.00	89.50	89.7	5497.27	19.21	8100.60	0.00	8100.59	2009143.90	11934659.11	-1406.27
13200.00	89.50	89.7	5497.70	19.48	8150.60	0.00	8150.58	2009193.90	11934659.38	-1406.70
13250.00	89.50	89.7	5498.14	19.75	8200.60	0.00	8200.58	2009243.90	11934659.65	-1407.14
13300.00	89.50	89.7	5498.58	20.02	8250.59	0.00	8250.58	2009293.89	11934659.92	-1407.58
13350.00	89.50	89.7	5499.01	20.29	8300.59	0.00	8300.58	2009343.89	11934660.19	-1408.01
13400.00	89.50	89.7	5499.45	20.56	8350.59	0.00	8350.58	2009393.89	11934660.46	-1408.45

Devils Tower State Com #1H, Plan 1

<b>Operator</b>	Mack Energy Corp	<b>Units</b>	feet, °/100ft	09:17 Wednesday, May 7, 2025 Page 6 of 6	
<b>Field</b>		<b>County</b>	Eddy/Lea	<b>Vertical Section Azimuth</b>	89.69
<b>Well Name</b>	Devils Tower P State Com #1H	<b>State</b>	New Mexico	<b>Survey Calculation Method</b>	Minimum Curvature
<b>Plan</b>	1	<b>Country</b>	USA	<b>Database</b>	Access
<b>Location</b>	SL: 1010 FSL & 1890 FWL Section 36-T16S-R31E BHL: 990 FSL & 1 FEL Section 31-T16S-32E		<b>Map Zone</b>	UTM	<b>Lat Long Ref</b>
<b>Site</b>			<b>Surface X</b>	2001043.3	<b>Surface Long</b>
<b>Slot Name</b>		<b>UWI</b>	<b>Surface Y</b>	11934639.9	<b>Surface Lat</b>
<b>Well Number</b>		<b>API</b>	<b>Surface Z</b>	4091	<b>Global Z Ref</b> KB
<b>Project</b>		<b>MD/TVD Ref</b> KB	<b>Ground Level</b>	4074	<b>Local North Ref</b> Grid

DIRECTIONAL WELL PLAN										
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft
13450.00	89.50	89.7	5499.88	20.83	8400.59	0.00	8400.58	2009443.89	11934660.73	-1408.88
13500.00	89.50	89.7	5500.32	21.10	8450.58	0.00	8450.57	2009493.88	11934661.00	-1409.32
13550.00	89.50	89.7	5500.76	21.38	8500.58	0.00	8500.57	2009543.88	11934661.28	-1409.76
13600.00	89.50	89.7	5501.19	21.65	8550.58	0.00	8550.57	2009593.88	11934661.55	-1410.19
13650.00	89.50	89.7	5501.63	21.92	8600.57	0.00	8600.57	2009643.87	11934661.82	-1410.63
13700.00	89.50	89.7	5502.07	22.19	8650.57	0.00	8650.57	2009693.87	11934662.09	-1411.07
*** TD (at MD = 13733.08)										
13733.08	89.50	89.7	5502.35	22.37	8683.65	0.00	8683.65	2009726.95	11934662.27	-1411.35

State of New Mexico  
Energy, Minerals and Natural Resources DepartmentSubmit Electronically  
Via E-permittingOil 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 State Com 001H		N Sec 36 T16S R31E	1010 FSL 1890 FWL	100	100	1,000

**IV. Central Delivery Point Name:** DCP Midstream Linam Ranch Processing Plant/Durango Midstream[See 19.15.27.9(D)(1) NMAC]**V. Anticipated Schedule:** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Devils Tower State Com 001H		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:	<i>Delilah Flores</i>
Printed Name:	Delilah Flores
Title:	Regulatory Technician I
E-mail Address:	delilah@mec.com
Date:	5/13/2025
Phone:	575-748-1288
<b>OIL CONSERVATION DIVISION</b> (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.



EXHIBIT  
**B**

P.O. Box 960  
Artesia, NM 88211-0960  
Office (575) 748-1288  
Fax (575) 748-7374

September 22, 2025

Via Email & USPS Certified

XTO Holdings, LLC  
Land Department  
22777 Springwoods Village Pkwy  
Spring, Texas 77389  
Attn: W4.5B.271

RE: **Horizontal Well Proposals – Devils Tower State Com #1H & #2H**  
Proposed Spacing Unit: S2SE4 Sec. 36-T16S-R31E, S2S2 Sec. 31-T16S-R32E  
Eddy & Lea County, New Mexico

Dear Working Interest Owner:

Mack Energy Corporation, an affiliate of Chase Oil Corporation, proposes to drill and complete the permitted Devils Tower State Com #1H & #2H as horizontal Yezo wells to the approximate total vertical and measured depth at the following locations as shown below:

**Devils Tower State Com #1H**

- Surface Hole Location – 1010' FSL, 1890' FWL, Section 36-T16S-R31E
- Bottom Hole Location – 990' FSL, 1' FEL, Section 31-T16S-R32E
- TVD: ~ 5,433'
- MD: ~ 13,733'

**Devils Tower State Com #2H**

- Surface Hole Location – 990' FSL, 1890' FWL, Section 36-16S-R31E
- Bottom Hole Location – 990' FSL, 1' FEL, Section 31-T16S-R32E
- TVD: ~ 5,952'
- MD: ~ 14,182'

Mack Energy Corporation will also propose a new and superseding Operating Agreement, being a modified 1989 AAPL form with horizontal modifications, covering the S2SE4 Section 36-T16S-R31E & S2S2 Section 31-T16S-R32E, limited to the Yezo formation. The Operating Agreement will contain the following provisions:

- Effective Date: March 1, 2026
- 100%/300%/300% non-consent penalties
- \$8,000/\$800 drilling/producing monthly overhead rate (COPAS)
- Mack Energy Corporation as named Operator

Please provide your election on the following page within thirty (30) days. If you elect to participate, please also return a signed AFE to the undersigned's attention at the letterhead address, via email to [deriks@mec.com](mailto:deriks@mec.com) or by facsimile to 575-748-7374.

If you do not wish to make an election in this well, but would like to divest of your interest, please mark the appropriate election on the attached election page and return to my attention in the same manner as above.

Should you have questions of a technical nature, please contact Cole Ponce by email at [ColePonce@mec.com](mailto:ColePonce@mec.com) or by calling (575) 748-1288. I can also be reached at the same number.

Sincerely,

**Mack Energy Corporation**

A handwritten signature in black ink, appearing to read "Derik Smith", with a long horizontal flourish extending to the right.

Derik Smith  
Landman

Enclosures

**Horizontal Well Proposal**

Devils Tower State Com #1H (API #30-015-56931)  
S2SE4 Sec 36-T16S-R31E, S2S2 Sec 31-T16S-R32E  
Eddy & Lea County, New Mexico  
September 22, 2025

\_\_\_\_\_ Elect to participate in the drilling and completion of the Devils Tower State Com #1H.

\_\_\_\_\_ Elect to **not** participate in the drilling and completion of the Devils Tower State Com #1H.

\_\_\_\_\_ Elect to receive an offer on our interest.

Agreed to and accepted this \_\_\_\_\_ day of \_\_\_\_\_, 2025.

Company: \_\_\_\_\_

By: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Horizontal Well Proposal

Devils Tower State Com #2H (API #30-015-56932)  
S2SE4 Sec 36-T16S-R31E, S2S2 Sec 31-T16S-R32E  
Eddy & Lea County, New Mexico  
September 22, 2025

- \_\_\_\_\_ Elect to participate in the drilling and completion of the Devils Tower State Com #2H.
- \_\_\_\_\_ Elect to not participate in the drilling and completion of the Devils Tower State Com #2H.
- \_\_\_\_\_ Elect to receive an offer on our interest.

Agreed to and accepted this \_\_\_\_\_ day of \_\_\_\_\_, 2025.

Company: \_\_\_\_\_

By: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

MACK ENERGY CORPORATION

AUTHORIZATION FOR EXPENDITURE

Devils Tower State Com #1H Horizontal (Pilot Hole)

'Landing Point MD 5,883.08' TVD 5,433.85' MDTD: 13,733.00' TVD: 5,433.00'

SHL 1010 FSL & 1890 FWL Sec 36 Eddy County

BHL 990 FSL & 1 FEL Sec 31 Lea County

Sec 36- T16S- R31E , Eddy County, New Mexico

Code	Drilling Intangible	Dry Hole Without Pipe	Completed Well	Actual Cost
502-015	Adminstrative Overhead Drilling	\$8,000.00	\$0.00	\$8,000.00
502-020	Location, Roads, Pits, & Damages	\$226,600.00	\$0.00	\$226,600.00
502-100	Footage	\$0.00	\$0.00	\$0.00
502-110	Daywork17 days\$18,000/day	\$618,550.00	\$0.00	\$618,550.00
502-114	Rental Equipment Surface	\$278,432.50	\$0.00	\$278,432.50
502-115	Rental Equipment SubSurface	\$62,787.40	\$0.00	\$62,787.40
502-116	Bits	\$64,300.00	\$0.00	\$64,300.00
502-120	Water-Drilling	\$208,163.75	\$0.00	\$208,163.75
502-125	Mud Materials	\$72,000.00	\$0.00	\$72,000.00
502-200	Cement-- Surface and Intermediate	\$189,787.50	\$0.00	\$189,787.50
502-201	Cement-- Production	\$0.00	\$130,463.50	\$130,463.50
502-204	Fuel & Power	\$104,000.00	\$0.00	\$104,000.00
502-205	Supplies & Misc.	\$2,000.00	\$0.00	\$2,000.00
502-500	Testing, Coring, & Mud Logging	\$48,750.00	\$0.00	\$48,750.00
502-600	Open Hole Logs/Wireline	\$80,055.30	\$0.00	\$80,055.30
502-650	Directional Drillers	\$148,800.00	\$0.00	\$148,800.00
502-681	Supervision	\$64,600.00	\$0.00	\$64,600.00
502-682	Trailer Rentals & Other Camp Equip.	\$53,700.00	\$0.00	\$53,700.00
175-600	Land, Legal, Regulatory, Permits	\$18,000.00	\$0.00	\$18,000.00
	Miscellaneous and Contingency	\$111,126.32	\$0.00	\$111,126.32

Code	Total Drilling Intangibles	\$2,359,652.77	\$130,463.50	\$2,490,116.27
------	----------------------------	----------------	--------------	----------------

Completion Intangibles				
502-015	Adminstrative Overhead Completion	\$0.00	\$2,600.00	\$2,600.00
502-021	Battery Construction-Dirt Work,Etc	\$0.00	\$5,500.00	\$5,500.00
502-103	Completion Unit	\$0.00	\$77,520.00	\$77,520.00
502-210	Fuel,Water,Power	\$0.00	\$703,524.00	\$703,524.00
502-350	Completions Surface Rentals	\$0.00	\$309,148.00	\$309,148.00
502-360	Completions SubSurface Rentals	\$0.00	\$133,754.00	\$133,754.00
502-601	Perforating and Logging	\$0.00	\$99,800.00	\$99,800.00
502-610	Frac and/or Acid Treatment	\$0.00	\$852,240.00	\$852,240.00
502-680	Professional Services	\$0.00	\$27,800.00	\$27,800.00
502-700	Miscellaneous Services	\$0.00	\$5,000.00	\$5,000.00
	Contingency	\$0.00	\$110,714.30	\$110,714.30

Code	Total Completion Intangibles	\$0.00	\$2,327,600.30	\$2,327,600.30
	Total Intangibles	\$2,359,652.77	\$2,458,063.80	\$4,817,716.57

Drilling and Completion Tangibles				
170-105	Surface Casing825'13 3/8"-48#-J-55 ST&C	\$63,586.51	\$0.00	\$63,586.51
170-110	Intermediate Casing2200'9 5/8"- 36#- J-55 ST&C 7"-26#-P-110 BTC (0'-5,600') 5 1/2-17#-P-110 BTC (5,600'-13,733')	\$122,647.53	\$0.00	\$122,647.53
170-115	Production Casing13,733'	\$0.00	\$579,660.92	\$579,660.92
170-115	Production Liner00	\$0.00	\$0.00	\$0.00
170-120	Production Tubing5,300'2 7/8" J-55 9.3# EUE	\$0.00	\$26,499.20	\$26,499.20
170-125	Wellhead Equipment-- Long String	\$0.00	\$25,000.00	\$25,000.00
170-126	Wellhead Equipment-- Surface & Intermediate	\$35,500.00	\$0.00	\$35,500.00
170-130	Floating Equipment-- Long String	\$0.00	\$94,000.00	\$94,000.00
170-131	Floating Equipment-- Surface & Intermediate	\$16,200.00	\$0.00	\$16,200.00
170-135	Rods	\$0.00	\$0.00	\$0.00
170-140	Subsurfaces Equipment	\$0.00	\$85,000.00	\$85,000.00
170-145	Linepipe	\$0.00	\$3,500.00	\$3,500.00
170-150	Tanks,Treater,Separators	\$0.00	\$288,162.50	\$288,162.50
170-155	Pumping Unit And Engine	\$0.00	\$0.00	\$0.00
170-160	Other Miscellaneous Equipment	\$0.00	\$65,000.00	\$65,000.00
	Contingency	\$11,896.70	\$58,341.13	\$70,237.83

Total Tangible	\$249,830.74	\$1,225,163.75	\$1,474,994.49
----------------	--------------	----------------	----------------

TOTAL WELL COSTS	\$2,609,483.51	\$3,683,227.55	\$6,292,711.06
------------------	----------------	----------------	----------------

Drilling Prepared By: Emilio Martinez 9/18/2025

Total Contingency: \$292,078.46

Total w/o Contingency: \$6,000,632.61

Interest Owner: \_\_\_\_\_

Interest: \_\_\_\_\_

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



MACK ENERGY CORPORATION  
AUTHORIZATION FOR EXPENDITURE  
Devils Tower State Com #2H Horizontal  
'Landing Point MD 6,332.50' TVD 5,883.67' MDTD: 14,182.50' TVD: 5,952.17'  
SHL 990 FSL & 1890 FWL Sec 36 Eddy County  
BHL 990 FSL & 1 FEL Sec 31 Lea County  
Sec 36- T16S- R31E , Eddy County, New Mexico

Code	Drilling Intangible	Dry Hole Without Pipe	Completed Well	Actual Cost
502-015	Adminstrative Overhead Drilling	\$6,800.00	\$0.00	\$6,800.00
502-020	Location, Roads, Pits, & Damages	\$226,600.00	\$0.00	\$226,600.00
502-100	Footage	\$0.00	\$0.00	\$0.00
502-110	Daywork14 days\$18,000/day	\$564,550.00	\$0.00	\$564,550.00
502-114	Rental Equipment Surface	\$260,252.50	\$0.00	\$260,252.50
502-115	Rental Equipment SubSurface	\$62,787.40	\$0.00	\$62,787.40
502-116	Bits	\$64,300.00	\$0.00	\$64,300.00
502-120	Water-Drilling	\$201,101.25	\$0.00	\$201,101.25
502-125	Mud Materials	\$63,000.00	\$0.00	\$63,000.00
502-200	Cement-- Surface and Intermediate	\$189,787.50	\$0.00	\$189,787.50
502-201	Cement-- Production	\$0.00	\$135,688.50	\$135,688.50
502-204	Fuel & Power	\$88,400.00	\$0.00	\$88,400.00
502-205	Supplies & Misc.	\$2,000.00	\$0.00	\$2,000.00
502-500	Testing, Coring, & Mud Logging	\$0.00	\$0.00	\$0.00
502-600	Open Hole Logs/Wireline	\$0.00	\$0.00	\$0.00
502-650	Directional Drillers	\$130,200.00	\$0.00	\$130,200.00
502-681	Supervision	\$64,600.00	\$0.00	\$64,600.00
502-682	Trailer Rentals & Other Camp Equip.	\$45,645.00	\$0.00	\$45,645.00
175-600	Land, Legal, Regulatory, Permits	\$18,000.00	\$0.00	\$18,000.00
	Miscellaneous and Contingency	\$98,161.18	\$0.00	\$98,161.18

Code	Total Drilling Intangibles	\$2,086,184.83	\$135,688.50	\$2,221,873.33
------	----------------------------	----------------	--------------	----------------

Completion Intangibles				
502-015	Adminstrative Overhead Completion	\$0.00	\$2,600.00	\$2,600.00
502-021	Battery Construction-Dirt Work,Etc	\$0.00	\$5,500.00	\$5,500.00
502-103	Completion Unit	\$0.00	\$77,520.00	\$77,520.00
502-210	Fuel, Water,Power	\$0.00	\$703,524.00	\$703,524.00
502-350	Completions Surface Rentals	\$0.00	\$309,148.00	\$309,148.00
502-360	Completions SubSurface Rentals	\$0.00	\$134,338.00	\$134,338.00
502-601	Perforating and Logging	\$0.00	\$99,800.00	\$99,800.00
502-610	Frac and/or Acid Treatment	\$0.00	\$852,240.00	\$852,240.00
502-680	Professional Services	\$0.00	\$27,800.00	\$27,800.00
502-700	Miscellaneous Services	\$0.00	\$5,000.00	\$5,000.00
	Contingency	\$0.00	\$110,743.50	\$110,743.50

Code	Total Completion Intangibles	\$0.00	\$2,328,213.50	\$2,328,213.50
	Total Intangibles	\$2,086,184.83	\$2,463,902.00	\$4,550,086.83

Drilling and Completion Tangibles				
170-105	Surface Casing825'13 3/8"-48#- J-55 ST&C	\$63,586.51	\$0.00	\$63,586.51
170-110	Intermediate Casing2200'9 5/8"- 36#- J-55 ST&C 7"-26#-P-110 BTC (0'-6,050') 5 1/2-17#-P-110 BTC (6,050'-14,183')	\$122,647.53	\$0.00	\$122,647.53
170-115	Production Casing14,183'	\$0.00	\$602,908.45	\$602,908.45
170-115	Production Liner00	\$0.00	\$0.00	\$0.00
170-120	Production Tubing5,100'3 1/2" J-55 9.3# EUE	\$0.00	\$28,628.60	\$28,628.60
170-125	Wellhead Equipment-- Long String	\$0.00	\$25,000.00	\$25,000.00
170-126	Wellhead Equipment-- Surface & Intermediate	\$35,500.00	\$0.00	\$35,500.00
170-130	Floating Equipment-- Long String	\$0.00	\$94,000.00	\$94,000.00
170-131	Floating Equipment-- Surface & Intermediate	\$16,200.00	\$0.00	\$16,200.00
170-135	Rods	\$0.00	\$0.00	\$0.00
170-140	Subsurfaces Equipment	\$0.00	\$95,000.00	\$95,000.00
170-145	Linepipe	\$0.00	\$3,500.00	\$3,500.00
170-150	Tanks,Treater,Separators	\$0.00	\$283,994.50	\$283,994.50
170-155	Pumping Unit And Engine	\$0.00	\$0.00	\$0.00
170-160	Other Miscellaneous Equipment	\$0.00	\$65,000.00	\$65,000.00
	Contingency	\$11,896.70	\$59,901.58	\$71,798.28

Total Tangible	\$249,830.74	\$1,257,933.13	\$1,507,763.87
----------------	--------------	----------------	----------------

TOTAL WELL COSTS	\$2,336,015.57	\$3,721,835.13	\$6,057,850.70
------------------	----------------	----------------	----------------

Drilling Prepared By: Emilio Martinez 9/18/2025

Total Contingency: \$280,702.96  
Total w/o Contingency: \$5,777,147.74

Interest Owner: \_\_\_\_\_Interest: \_\_\_\_\_

Approved By: \_\_\_\_\_Date: \_\_\_\_\_



P.O. Box 960  
Artesia, NM 88211-0960  
Office (575) 748-1288  
Fax (575) 748-7374

September 23, 2025

**Via Email & USPS Certified**

COG Operating, LLC  
Attn: Land Dept.  
600 West Illinois Avenue  
Midland, Texas 79701

RE: **Horizontal Well Proposals – Devils Tower State Com #1H & #2H**  
Proposed Spacing Unit: S2SE4 Sec. 36-T16S-R31E, S2S2 Sec. 31-T16S-R32E  
Eddy & Lea County, New Mexico

Dear Working Interest Owner:

Mack Energy Corporation, an affiliate of Chase Oil Corporation, proposes to drill and complete the permitted Devils Tower State Com #1H & #2H as horizontal Yeso wells to the approximate total vertical and measured depth at the following locations as shown below:

**Devils Tower State Com #1H**

- o Surface Hole Location – 1010' FSL, 1890' FWL, Section 36-T16S-R31E
- o Bottom Hole Location – 990' FSL, 1' FEL, Section 31-T16S-R32E
- o TVD: ~ 5,433'
- o MD: ~ 13,733'

**Devils Tower State Com #2H**

- o Surface Hole Location – 990' FSL, 1890' FWL, Section 36-16S-R31E
- o Bottom Hole Location – 990' FSL, 1' FEL, Section 31-T16S-R32E
- o TVD: ~ 5,952'
- o MD: ~ 14,182'

Mack Energy Corporation will also propose a new and superseding Operating Agreement, being a modified 1989 AAPL form with horizontal modifications, covering the S2SE4 Section 36-T16S-R31E & S2S2 Section 31-T16S-R32E, limited to the Yeso formation. The Operating Agreement will contain the following provisions:

- o Effective Date: March 1, 2026
- o 100%/300%/300% non-consent penalties
- o \$8,000/\$800 drilling/producing monthly overhead rate (COPAS)
- o Mack Energy Corporation as named Operator

Please provide your election on the following page within thirty (30) days. If you elect to participate, please also return a signed AFE to the undersigned's attention at the letterhead address, via email to [deriks@mec.com](mailto:deriks@mec.com) or by facsimile to 575-748-7374.

If you do not wish to make an election in this well, but would like to divest of your interest, please mark the appropriate election on the attached election page and return to my attention in the same manner as above.

Should you have questions of a technical nature, please contact Cole Ponce by email at [ColePonce@mec.com](mailto:ColePonce@mec.com) or by calling (575) 748-1288. I can also be reached at the same number.

Sincerely,

**Mack Energy Corporation**

A handwritten signature in black ink, appearing to read "Derik Smith", with a stylized, flowing script.

Derik Smith  
Landman

Enclosures

**Horizontal Well Proposal**

**Devils Tower State Com #1H (API #30-015-56931)  
S2SE4 Sec 36-T16S-R31E, S2S2 Sec 31-T16S-R32E  
Eddy & Lea County, New Mexico  
September 22, 2025**

- \_\_\_\_\_ Elect to participate in the drilling and completion of the Devils Tower State Com #1H.
- \_\_\_\_\_ Elect to **not** participate in the drilling and completion of the Devils Tower State Com #1H.
- \_\_\_\_\_ Elect to receive an offer on our interest.

Agreed to and accepted this \_\_\_\_\_ day of \_\_\_\_\_, 2025.

Company: \_\_\_\_\_

By: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

**Horizontal Well Proposal**

**Devils Tower State Com #2H (API #30-015-56932)  
S2SE4 Sec 36-T16S-R31E, S2S2 Sec 31-T16S-R32E  
Eddy & Lea County, New Mexico  
September 22, 2025**

- \_\_\_\_\_ Elect to participate in the drilling and completion of the Devils Tower State Com #2H.
- \_\_\_\_\_ Elect to not participate in the drilling and completion of the Devils Tower State Com #2H.
- \_\_\_\_\_ Elect to receive an offer on our interest.

Agreed to and accepted this \_\_\_\_\_ day of \_\_\_\_\_, 2025.

Company: \_\_\_\_\_

By: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_



MACK ENERGY CORPORATION

AUTHORIZATION FOR EXPENDITURE

Devils Tower State Com #1H Horizontal (Pilot Hole)

'Landing Point MD 5,883.08' TVD 5,433.85' MDTD: 13,733.00' TVD: 5,433.00'

SHL 1010 FSL & 1890 FWL Sec 36 Eddy County

BHL 990 FSL & 1 FEL Sec 31 Lea County

Sec 36- T16S- R31E , Eddy County, New Mexico

Code	Drilling Intangible	Dry Hole Without Pipe	Completed Well	Actual Cost
502-015	Adminstrative Overhead Drilling	\$8,000.00	\$0.00	\$8,000.00
502-020	Location, Roads, Pits, & Damages	\$226,600.00	\$0.00	\$226,600.00
502-100	Footage	\$0.00	\$0.00	\$0.00
502-110	Daywork                    17 days     \$18,000/day	\$618,550.00	\$0.00	\$618,550.00
502-114	Rental Equipment Surface	\$278,432.50	\$0.00	\$278,432.50
502-115	Rental Equipment SubSurface	\$62,787.40	\$0.00	\$62,787.40
502-116	Bits	\$64,300.00	\$0.00	\$64,300.00
502-120	Water-Drilling	\$208,163.75	\$0.00	\$208,163.75
502-125	Mud Materials	\$72,000.00	\$0.00	\$72,000.00
502-200	Cement-- Surface and Intermediate	\$189,787.50	\$0.00	\$189,787.50
502-201	Cement-- Production	\$0.00	\$130,463.50	\$130,463.50
502-204	Fuel & Power	\$104,000.00	\$0.00	\$104,000.00
502-205	Supplies & Misc.	\$2,000.00	\$0.00	\$2,000.00
502-500	Testing, Coring, & Mud Logging	\$48,750.00	\$0.00	\$48,750.00
502-600	Open Hole Logs/Wireline	\$80,055.30	\$0.00	\$80,055.30
502-650	Directional Drillers	\$148,800.00	\$0.00	\$148,800.00
502-681	Supervision	\$64,600.00	\$0.00	\$64,600.00
502-682	Trailer Rentals & Other Camp Equip.	\$53,700.00	\$0.00	\$53,700.00
175-600	Land, Legal, Regulatory, Permits	\$18,000.00	\$0.00	\$18,000.00
	Miscellaneous and Contingency	\$111,126.32	\$0.00	\$111,126.32

Code	Total Drilling Intangibles	\$2,359,652.77	\$130,463.50	\$2,490,116.27
------	----------------------------	----------------	--------------	----------------

Completion Intangibles				
502-015	Adminstrative Overhead Completion	\$0.00	\$2,600.00	\$2,600.00
502-021	Battery Construction-Dirt Work,Etc	\$0.00	\$5,500.00	\$5,500.00
502-103	Completion Unit	\$0.00	\$77,520.00	\$77,520.00
502-210	Fuel, Water,Power	\$0.00	\$703,524.00	\$703,524.00
502-350	Completions Surface Rentals	\$0.00	\$309,148.00	\$309,148.00
502-360	Completions SubSurface Rentals	\$0.00	\$133,754.00	\$133,754.00
502-601	Perforating and Logging	\$0.00	\$99,800.00	\$99,800.00
502-610	Frac and/or Acid Treatment	\$0.00	\$852,240.00	\$852,240.00
502-680	Professional Services	\$0.00	\$27,800.00	\$27,800.00
502-700	Miscellaneous Services	\$0.00	\$5,000.00	\$5,000.00
	Contingency	\$0.00	\$110,714.30	\$110,714.30

Code	Total Completion Intangibles	\$0.00	\$2,327,600.30	\$2,327,600.30
	Total Intangibles	\$2,359,652.77	\$2,458,063.80	\$4,817,716.57

Drilling and Completion Tangibles				
170-105	Surface Casing        825'                    13 3/8"-48#- J-55 ST&C	\$63,586.51	\$0.00	\$63,586.51
170-110	Intermediate Casing   2200'                    9 5/8"- 36#- J-55 ST&C	\$122,647.53	\$0.00	\$122,647.53
	7"-26#-P-110 BTC (0'-5,600')			
	5 1/2-17#-P-110 BTC (5,600'-13,733')	\$0.00	\$579,660.92	\$579,660.92
170-115	Production Casing    13,733'	\$0.00	\$0.00	\$0.00
170-115	Production Liner                    0                    0	\$0.00	\$0.00	\$0.00
170-120	Production Tubing    5,300'                    2 7/8" J-55 9.3# EUE	\$0.00	\$26,499.20	\$26,499.20
170-125	Wellhead Equipment-- Long String	\$0.00	\$25,000.00	\$25,000.00
170-126	Wellhead Equipment-- Surface & Intermediate	\$35,500.00	\$0.00	\$35,500.00
170-130	Floating Equipment-- Long String	\$0.00	\$94,000.00	\$94,000.00
170-131	Floating Equipment-- Surface & Intermediate	\$16,200.00	\$0.00	\$16,200.00
170-135	Rods	\$0.00	\$0.00	\$0.00
170-140	Subsurfaces Equipment	\$0.00	\$85,000.00	\$85,000.00
170-145	Linepipe	\$0.00	\$3,500.00	\$3,500.00
170-150	Tanks,Treater,Separators	\$0.00	\$288,162.50	\$288,162.50
170-155	Pumping Unit And Engine	\$0.00	\$0.00	\$0.00
170-160	Other Miscellaneous Equipment	\$0.00	\$65,000.00	\$65,000.00
	Contingency	\$11,896.70	\$58,341.13	\$70,237.83

Total Tangible	\$249,830.74	\$1,225,163.75	\$1,474,994.49
----------------	--------------	----------------	----------------

TOTAL WELL COSTS	\$2,609,483.51	\$3,683,227.55	\$6,292,711.06
------------------	----------------	----------------	----------------

Drilling Prepared By: Emilio Martinez    9/18/2025

Total Contingency:            \$292,078.46

Total w/o Contingency:        \$6,000,632.61

Interest Owner: \_\_\_\_\_

Interest: \_\_\_\_\_

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

MACK ENERGY CORPORATION

AUTHORIZATION FOR EXPENDITURE

Devils Tower State Com #2H Horizontal

'Landing Point MD 6,332.50' TVD 5,883.67' MDTD: 14,182.50' TVD: 5,952.17'

SHL 990 FSL & 1890 FWL Sec 36 Eddy County

BHL 990 FSL & 1 FEL Sec 31 Lea County

Sec 36- T16S- R31E , Eddy County, New Mexico

Code	Drilling Intangible	Dry Hole Without Pipe	Completed Well	Actual Cost
502-015	Adminstrative Overhead Drilling	\$6,800.00	\$0.00	\$6,800.00
502-020	Location, Roads, Pits, & Damages	\$226,600.00	\$0.00	\$226,600.00
502-100	Footage	\$0.00	\$0.00	\$0.00
502-110	Daywork                    14 days       \$18,000/day	\$564,550.00	\$0.00	\$564,550.00
502-114	Rental Equipment Surface	\$260,252.50	\$0.00	\$260,252.50
502-115	Rental Equipment SubSurface	\$62,787.40	\$0.00	\$62,787.40
502-116	Bits	\$64,300.00	\$0.00	\$64,300.00
502-120	Water-Drilling	\$201,101.25	\$0.00	\$201,101.25
502-125	Mud Materials	\$63,000.00	\$0.00	\$63,000.00
502-200	Cement-- Surface and Intermediate	\$189,787.50	\$0.00	\$189,787.50
502-201	Cement-- Production	\$0.00	\$135,688.50	\$135,688.50
502-204	Fuel & Power	\$88,400.00	\$0.00	\$88,400.00
502-205	Supplies & Misc.	\$2,000.00	\$0.00	\$2,000.00
502-500	Testing, Coring, & Mud Logging	\$0.00	\$0.00	\$0.00
502-600	Open Hole Logs/Wireline	\$0.00	\$0.00	\$0.00
502-650	Directional Drillers	\$130,200.00	\$0.00	\$130,200.00
502-681	Supervision	\$64,600.00	\$0.00	\$64,600.00
502-682	Trailer Rentals & Other Camp Equip.	\$45,645.00	\$0.00	\$45,645.00
175-600	Land, Legal, Regulatory, Permits	\$18,000.00	\$0.00	\$18,000.00
	Miscellaneous and Contingency	\$98,161.18	\$0.00	\$98,161.18

Code	Total Drilling Intangibles	\$2,086,184.83	\$135,688.50	\$2,221,873.33
------	----------------------------	----------------	--------------	----------------

Completion Intangibles				
502-015	Adminstrative Overhead Completion	\$0.00	\$2,600.00	\$2,600.00
502-021	Battery Construction-Dirt Work,Etc	\$0.00	\$5,500.00	\$5,500.00
502-103	Completion Unit	\$0.00	\$77,520.00	\$77,520.00
502-210	Fuel,Water,Power	\$0.00	\$703,524.00	\$703,524.00
502-350	Completions Surface Rentals	\$0.00	\$309,148.00	\$309,148.00
502-360	Completions SubSurface Rentals	\$0.00	\$134,338.00	\$134,338.00
502-601	Perforating and Logging	\$0.00	\$99,800.00	\$99,800.00
502-610	Frac and/or Acid Treatment	\$0.00	\$852,240.00	\$852,240.00
502-680	Professional Services	\$0.00	\$27,800.00	\$27,800.00
502-700	Miscellaneous Services	\$0.00	\$5,000.00	\$5,000.00
	Contingency	\$0.00	\$110,743.50	\$110,743.50

Code	Total Completion Intangibles	\$0.00	\$2,328,213.50	\$2,328,213.50
	Total Intangibles	\$2,086,184.83	\$2,463,902.00	\$4,550,086.83

Drilling and Completion Tangibles				
170-105	Surface Casing       825'                    13 3/8"-48#-J-55 ST&C	\$63,586.51	\$0.00	\$63,586.51
170-110	Intermediate Casing   2200'                    9 5/8"- 36#- J-55 ST&C	\$122,647.53	\$0.00	\$122,647.53
	7"-26#-P-110 BTC (0'-6,050')			
	5 1/2-17#-P-110 BTC (6,050'-14,183')			
170-115	Production Casing    14,183'	\$0.00	\$602,908.45	\$602,908.45
170-115	Production Liner                    0                    0	\$0.00	\$0.00	\$0.00
170-120	Production Tubing    5,100'                    3 1/2" J-55 9.3# EUE	\$0.00	\$28,628.60	\$28,628.60
170-125	Wellhead Equipment-- Long String	\$0.00	\$25,000.00	\$25,000.00
170-126	Wellhead Equipment-- Surface & Intermediate	\$35,500.00	\$0.00	\$35,500.00
170-130	Floating Equipment-- Long String	\$0.00	\$94,000.00	\$94,000.00
170-131	Floating Equipment-- Surface & Intermediate	\$16,200.00	\$0.00	\$16,200.00
170-135	Rods	\$0.00	\$0.00	\$0.00
170-140	Subsurfaces Equipment	\$0.00	\$95,000.00	\$95,000.00
170-145	Linepipe	\$0.00	\$3,500.00	\$3,500.00
170-150	Tanks,Treater,Separators	\$0.00	\$283,994.50	\$283,994.50
170-155	Pumping Unit And Engine	\$0.00	\$0.00	\$0.00
170-160	Other Miscellaneous Equipment	\$0.00	\$65,000.00	\$65,000.00
	Contingency	\$11,896.70	\$59,901.58	\$71,798.28

Total Tangible	\$249,830.74	\$1,257,933.13	\$1,507,763.87
----------------	--------------	----------------	----------------

TOTAL WELL COSTS	\$2,336,015.57	\$3,721,835.13	\$6,057,850.70
------------------	----------------	----------------	----------------

Drilling Prepared By: Emilio Martinez    9/18/2025

Total Contingency:       \$280,702.96

Total w/o Contingency:    \$5,777,147.74

Interest Owner: \_\_\_\_\_ Interest: \_\_\_\_\_

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

EXHIBIT

C

**From:** [Paula M. Vance](#)  
**To:** [OCD.Engineer@emnrd.nm.gov](mailto:OCD.Engineer@emnrd.nm.gov)  
**Cc:** [blake@mr-nm.com](mailto:blake@mr-nm.com)  
**Subject:** MR NM Shrek Overlapping Development  
**Date:** Wednesday, October 1, 2025 4:02:24 PM  
**Attachments:** [image001.png](#)  
[MRNM Overlap Notice.pdf](#)

---

To Whom It May Concern,

Mack Energy Corporation objects to MR NM's proposed overlapping development.



Holland  
& Hart

**Paula Vance**

Her / Hers / She [\(What's this?\)](#)

Associate

**HOLLAND & HART LLP**

110 North Guadalupe Street, Suite 1, Santa Fe, NM 87501

[pmvance@hollandhart.com](mailto:pmvance@hollandhart.com) | **T:** (505) 954-7286 | **M:** (337) 280-9055

CONFIDENTIALITY NOTICE: This message is confidential and may be privileged. If you believe that this email has been sent to you in error, please reply to the sender that you received the message in error; then please delete this email.

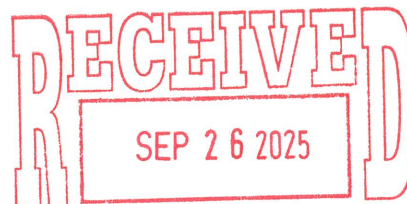
**MR NM OPERATING LLC**  
**5950 Berkshire | Suite 1000**  
**Dallas, Texas 75225**  
**(469) 899-8600**

September 24, 2025

VIA Federal Express

Mack Energy Corporation  
11344 Lovington Hwy  
Artesia, NM 88210

**Re: Notice of Overlapping Spacing Unit**  
Shrek State Com #1H and 2H  
Lea County, New Mexico



By: Federal Express

To Whom It May Concern:

MR NM Operating LLC ("MR NM") has proposed the above-referenced wells for the initial development of the Yeso formation under the SE/4 of Section 31 and the SW/4 of Section 32, Township 16 South, Range 32 East, NMPM, Lea County, New Mexico.

This letter is to advise you that this proposed development plan will require the formation of a 320 acre, more or less, spacing unit comprised of the SE/4 of Section 31 and the SW/4 of Section 32, Township 16 South, Range 32 East, NMPM, Lea County, New Mexico, which will initially be dedicated to:

- i. MR NM's Shrek State Com #1H, to be drilled from a surface location within the SE/4 SW/4 of Section 32, T16S-R32E, to a bottom hole location within the SW/4 SE/4 of Section 31, T16S-R32E. This well is targeting the Yeso formation, with an approximate TVD of 5,707'.

MR NM's proposed 320-acre spacing unit will overlap the following proposed spacing unit and well:

- ii. Mack Energy Corporation's Devils Tower State Com #1H (API No. 30-015-56931), drilled from a surface location within the SE/4 SW/4 of Section 36, T16S, R31E to a bottom hole location within the SE/4 SE/4 of Section 31, T16S, R32E. This well is targeting the Yeso formation, with an approximate TVD of 5,502'.

Pursuant to NMAC 19.15.16.15.B(9) and 19.15.15.12.B, you have a right to object to the overlapping spacing unit by delivering a written statement of objection to our office within twenty (20) days of the mailing of this notice. If no objection is received within this period, we will proceed with obtaining any remaining approvals for the proposed spacing unit.

Should you have questions or concerns, please contact the undersigned directly at (214) 354-5414 or via email at [blake@mr-nm.com](mailto:blake@mr-nm.com).

Regards,

A handwritten signature in blue ink that appears to read "Blake Simmons".

Blake Simmons  
Land Manager