

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 408084

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
4. Property Code 338811						3. API Number 30-005-64418
5. Property Name Meerkat State Com						6. Well No. 001H

7. Surface Location

UL - Lot O	Section 24	Township 14S	Range 31E	Lot Idn O	Feet From 700	N/S Line S	Feet From 1650	E/W Line E	County Chaves
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8. Proposed Bottom Hole Location

UL - Lot O	Section 25	Township 14S	Range 31E	Lot Idn O	Feet From 1	N/S Line S	Feet From 1650	E/W Line E	County Chaves
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9. Pool Information

WC-005 G-01 S143125B; SAN ANDRES	98407
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 4379
16. Multiple N	17. Proposed Depth 10300	18. Formation San Andres	19. Contractor	20. Spud Date 5/1/2026
Depth to Ground water		Distance from nearest fresh water well		

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

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	9.625	36	1500	930	0
Prod	8.75	7	26	4575	1130	0
Prod	8.75	5.5	17	10300	200	0

Casing/Cement Program: Additional Comments

Mack Energy Corporation proposed to drill 12 1/4" hole to 1500', run 9 5/8" csg/cmt. Drill 8 3/4" hole to 4575', run 7" csg/cmt. Drill 8 3/4" hole to 10,300', run 5.5 csg/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 hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well. 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.	OIL CONSERVATION DIVISION	
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: 2/6/2026	Expiration Date: 2/6/2028
Date: 1/30/2026	Phone: 575-748-1288	Conditions of Approval Attached

C-102

Submit Electronically
Via OCD PermittingState 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 30-005-64418	Pool Code 19150-98407	Pool Name WC-005 G-01 S143125B, SAN ANDRES Double L; San Andres; South
Property Code 338811	Property Name MEERKAT STATE COM	Well Number 1H
OGRID No. 13837	Operator Name MACK ENERGY CORPORATION	Ground Level Elevation 4379.0
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 O 24	Section 14 S	Township 14 S	Range 31 E	Lot	Ft. from N/S 700 SOUTH	Ft. from E/W 1650 EAST	Latitude 33.0833066°N	Longitude 103.7718534°W	County CHAVES
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Bottom Hole Location

UL O 25	Section 14 S	Township 14 S	Range 31 E	Lot	Ft. from N/S 1 SOUTH	Ft. from E/W 1650 EAST	Latitude 33.0668663°N	Longitude 103.7718764°W	County CHAVES
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Dedicated Acres 160	Infill or Defining Well Defining	Defining Well API N/A	Overlapping Spacing Unit (Y/N)	Consolidation Code N/A
Order Numbers. N/A		Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

Kick Off Point (KOP)

UL O 24	Section 14 S	Township 14 S	Range 31 E	Lot	Ft. from N/S 700 SOUTH	Ft. from E/W 1650 EAST	Latitude 33.0833066°N	Longitude 103.7718534°W	County CHAVES
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First Take Point (FTP)

UL B 25	Section 14 S	Township 14 S	Range 31 E	Lot	Ft. from N/S 100 NORTH	Ft. from E/W 1650 EAST	Latitude 33.0811081°N	Longitude 103.7718546°W	County CHAVES
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Last Take Point (LTP)

UL O 25	Section 14 S	Township 14 S	Range 31 E	Lot	Ft. from N/S 100 SOUTH	Ft. from E/W 1650 EAST	Latitude 33.0671383°N	Longitude 103.7718760°W	County CHAVES
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Unitized Area or Area of Uniform Interest	Spacing Unit Type <input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation:
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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 1/14/2026

Signature

Date

Delilah Flores

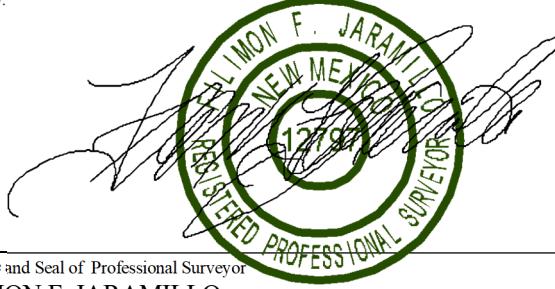
Printed Name

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

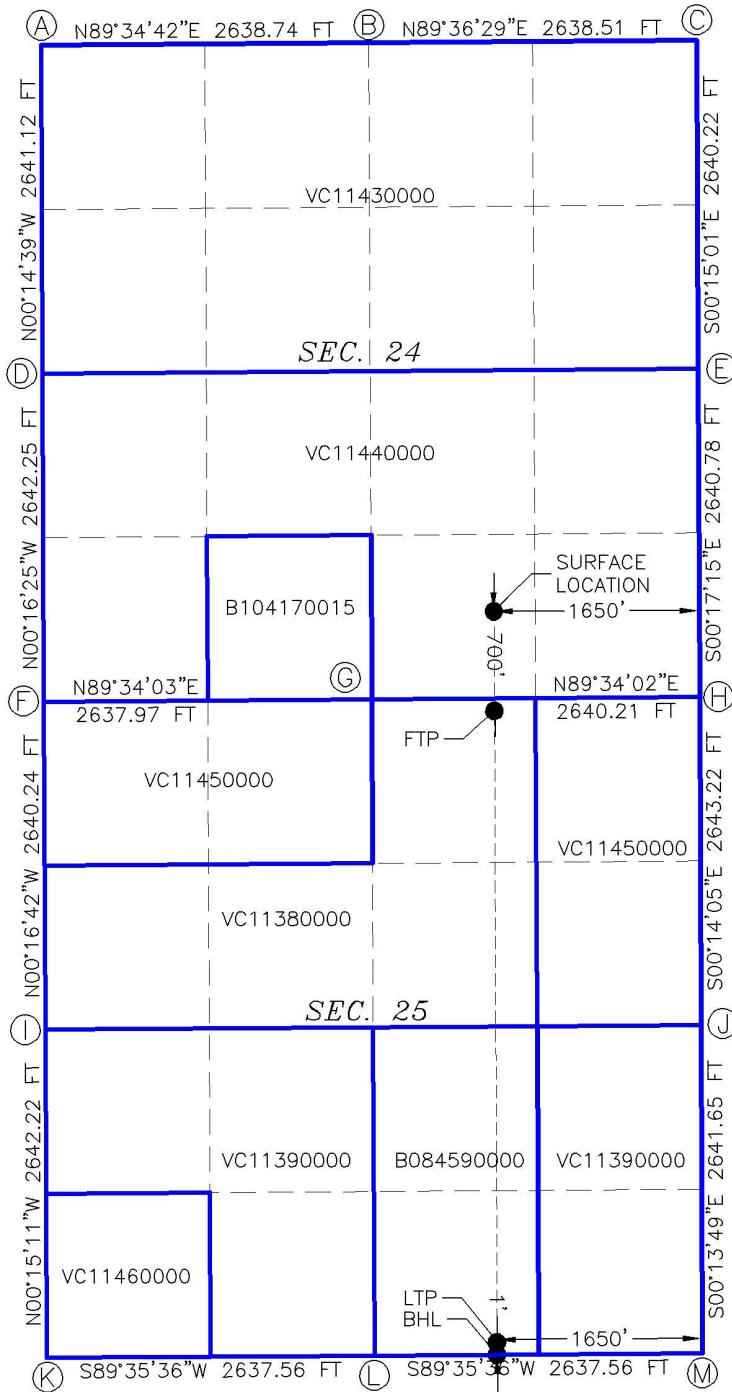
Date of Survey
DECEMBER 4, 2025

SURVEY NO. 10543

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.



MEERKAT STATE COM 1H
EL. = 4379.0

GEODETIC COORDINATES
NAD 83 NMSP EAST
SURFACE LOCATION
700' FSL, 1650' FEL
N.=758305.76
E.=713313.25
LAT.=33.0833066°N
LONG.=103.7718534°W

KICK OFF POINT 700' FSL, 1650' FEL N.=758305.76 E.=713313.25 LAT.=33.0833066°N LONG.=103.7718534°W	FIRST TAKE POINT 100' FNL, 1650' FEL N.=757505.83 E.=713317.17 LAT.=33.0811081°N LONG.=103.7718546°W
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LAST TAKE POINT 100' FSL, 1650' FEL N.=752423.09 E.=713337.80 LAT.=33.0671383°N LONG.=103.7718760°W	BOTTOM OF HOLE 1' FSL, 1650' FEL N.=752324.11 E.=713338.19 LAT.=33.0668663°N LONG.=103.7718764°W
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CORNER COORDINATES TABLE
NAD 83 NMSP EAST

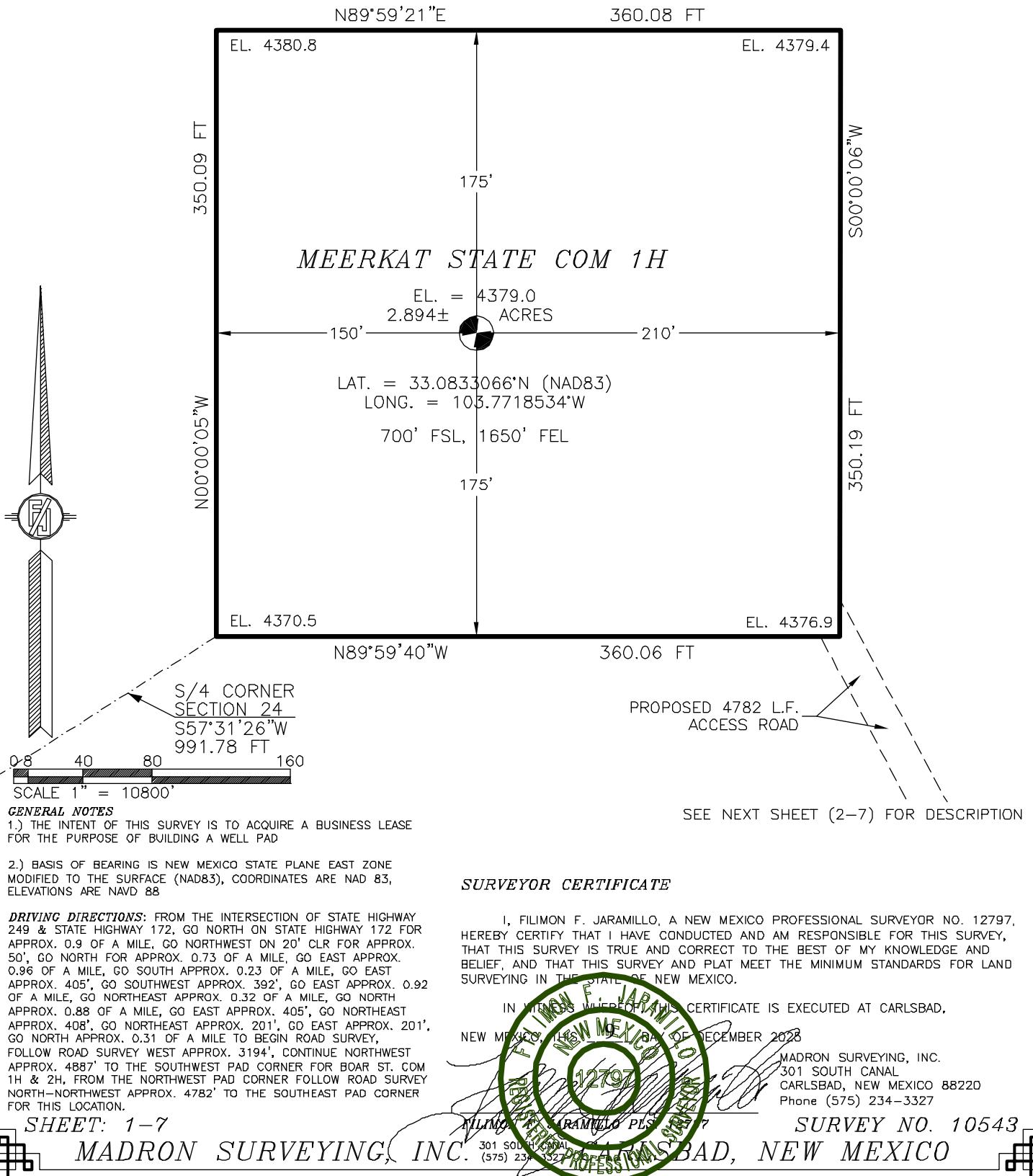
A	-	N. = 762860.37	E. = 709665.78
B	-	N. = 762879.79	E. = 712303.76
C	-	N. = 762897.83	E. = 714941.52
D	-	N. = 760219.96	E. = 709677.03
E	-	N. = 760258.32	E. = 714953.05
F	-	N. = 757578.43	E. = 709689.64
G	-	N. = 757598.33	E. = 712326.84
H	-	N. = 757618.27	E. = 714966.29
I	-	N. = 754938.91	E. = 709702.46
J	-	N. = 754975.76	E. = 714977.12
K	-	N. = 752297.40	E. = 709714.12
L	-	N. = 752316.12	E. = 712350.93
M	-	N. = 752334.83	E. = 714987.74

LEGEND

LEGEND

— · — · — · —	SECTION LINE
— — — — —	QUARTER LINE
—	LEASE LINE
— · — · — · —	WELL PATH

MEERKAT STATE COM 1H
MACK ENERGY CORPORATION
IN THE E/2 SW/4 SE/4 OF
SECTION 24, TOWNSHIP 14 SOUTH, RANGE 31 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO
DECEMBER 4, 2025



**MEERKAT STATE COM 1H
MACK ENERGY CORPORATION
IN THE E/2 SW/4 SE/4 OF
SECTION 24, TOWNSHIP 14 SOUTH, RANGE 31 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO
DECEMBER 4, 2025**

DESCRIPTION

A CERTAIN PIECE OR PARCEL OF LAND AND REAL ESTATE LYING IN STATE OF NEW MEXICO LAND IN THE E/2 SW/4 SE/4 OF SECTION 24, TOWNSHIP 14 SOUTH, RANGE 31 EAST, N.M.P.M., CHAVES COUNTY, NEW MEXICO.

BEGINNING AT THE SOUTHWEST CORNER OF THE PARCEL, WHENCE THE SOUTH QUARTER CORNER OF SECTION 24, TOWNSHIP 14 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS S57°31'26"W, A DISTANCE OF 991.78 FEET;

THENCE N00°00'05"W A DISTANCE OF 350.09 FEET TO THE NORTHWEST CORNER OF THE PARCEL; THENCE N89°59'21"E A DISTANCE OF 360.08 FEET TO THE NORTHEAST CORNER OF THE PARCEL; THENCE S00°00'06"W A DISTANCE OF 350.19 FEET TO THE SOUTHEAST CORNER OF THE PARCEL; THENCE N89°59'40"W A DISTANCE OF 360.06 FEET TO THE SOUTHWEST CORNER OF THE PARCEL, THE POINT OF BEGINNING;

CONTAINING 2.894 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

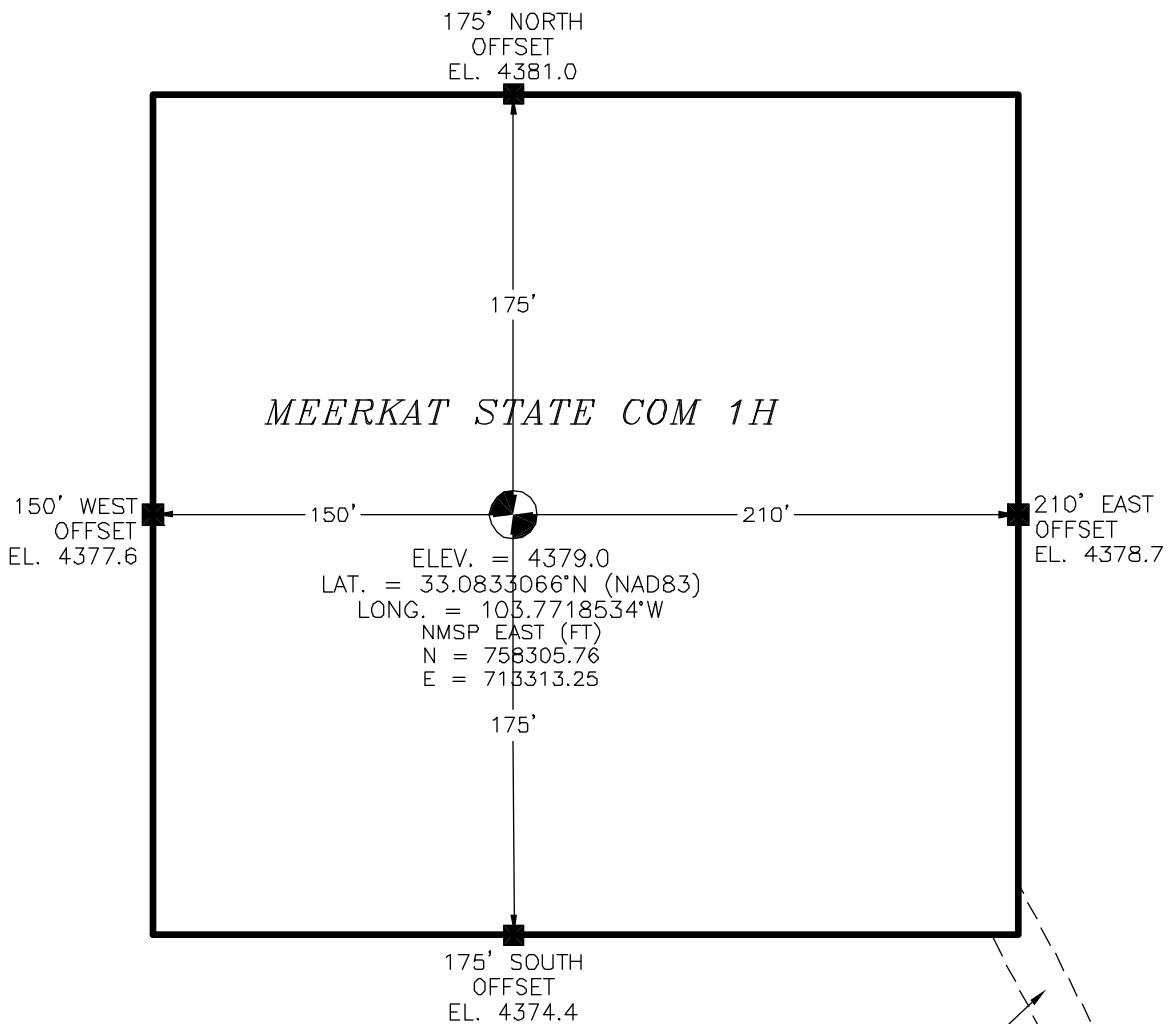
I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE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

IN WITNESS WHEREOF, THIS 4th DAY OF DECEMBER 2025
NEW MEXICO, THIS 4th DAY OF DECEMBER 2025

FILIMON F. JARAMILLO, PLS. #12797
MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3327
SURVEY NO. 10543
SHEET: 2-7
MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

MEERKAT STATE COM 1H
 MACK ENERGY CORPORATION
 IN THE E/2 SW/4 SE/4 OF
 SECTION 24, TOWNSHIP 14 SOUTH, RANGE 31 EAST, N.M.P.M.
 CHAVES COUNTY, STATE OF NEW MEXICO
 DECEMBER 4, 2025

SITE MAP



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

FILIMON F. JARAMILLO, R.P.S.

SHEET: 3-1 PROFESSIONAL SURVEYING

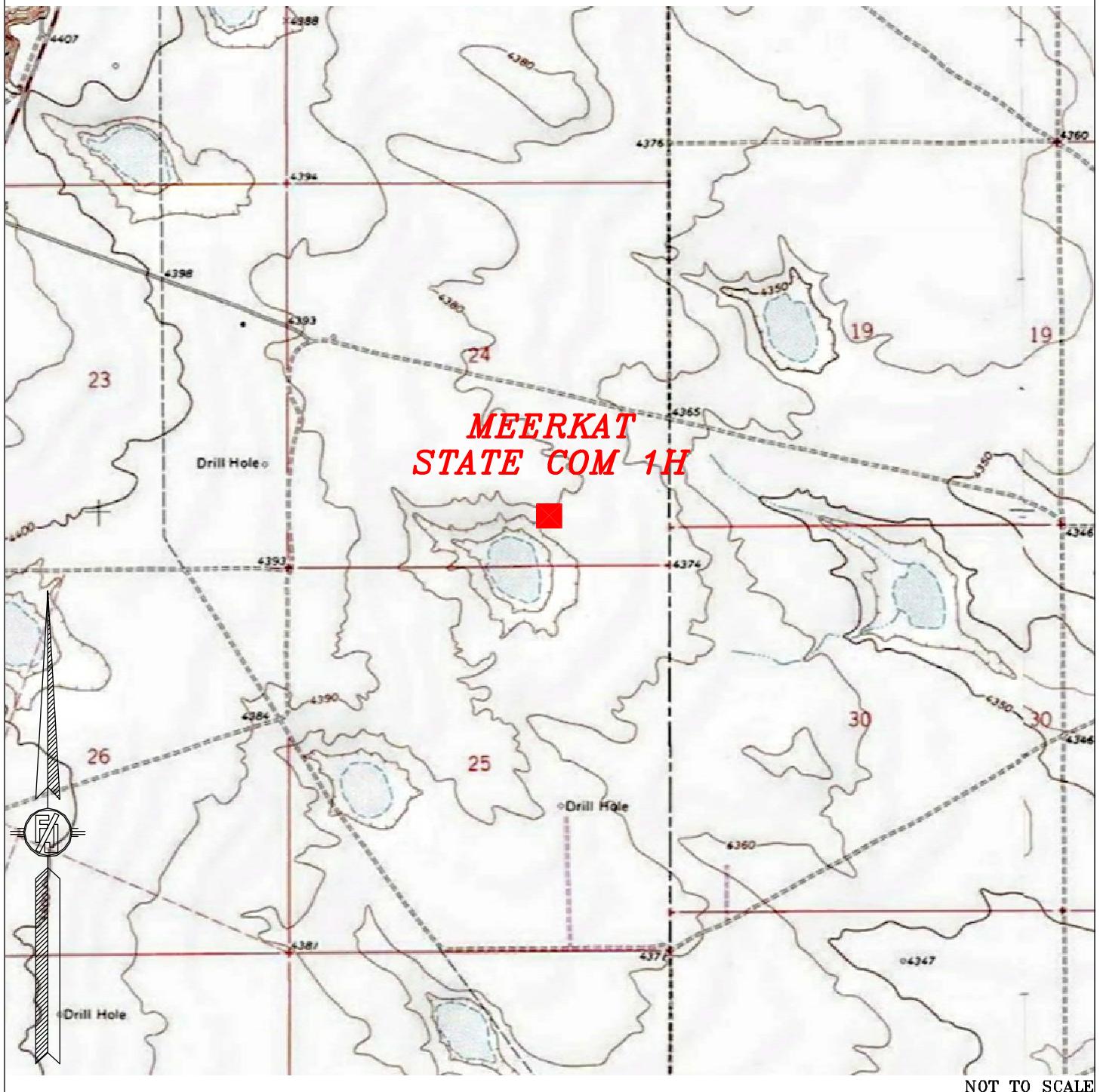
MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3327 CARLSBAD, NEW MEXICO

0 8 40 80 160
 SCALE 1" = 80'

SURVEY NO. 10543

MEERKAT STATE COM 1H
 MACK ENERGY CORPORATION
 IN THE E/2 SW/4 SE/4 OF
 SECTION 24, TOWNSHIP 14 SOUTH, RANGE 31 EAST, N.M.P.M.
 CHAVES COUNTY, STATE OF NEW MEXICO
 DECEMBER 4, 2025

LOCATION VERIFICATION MAP



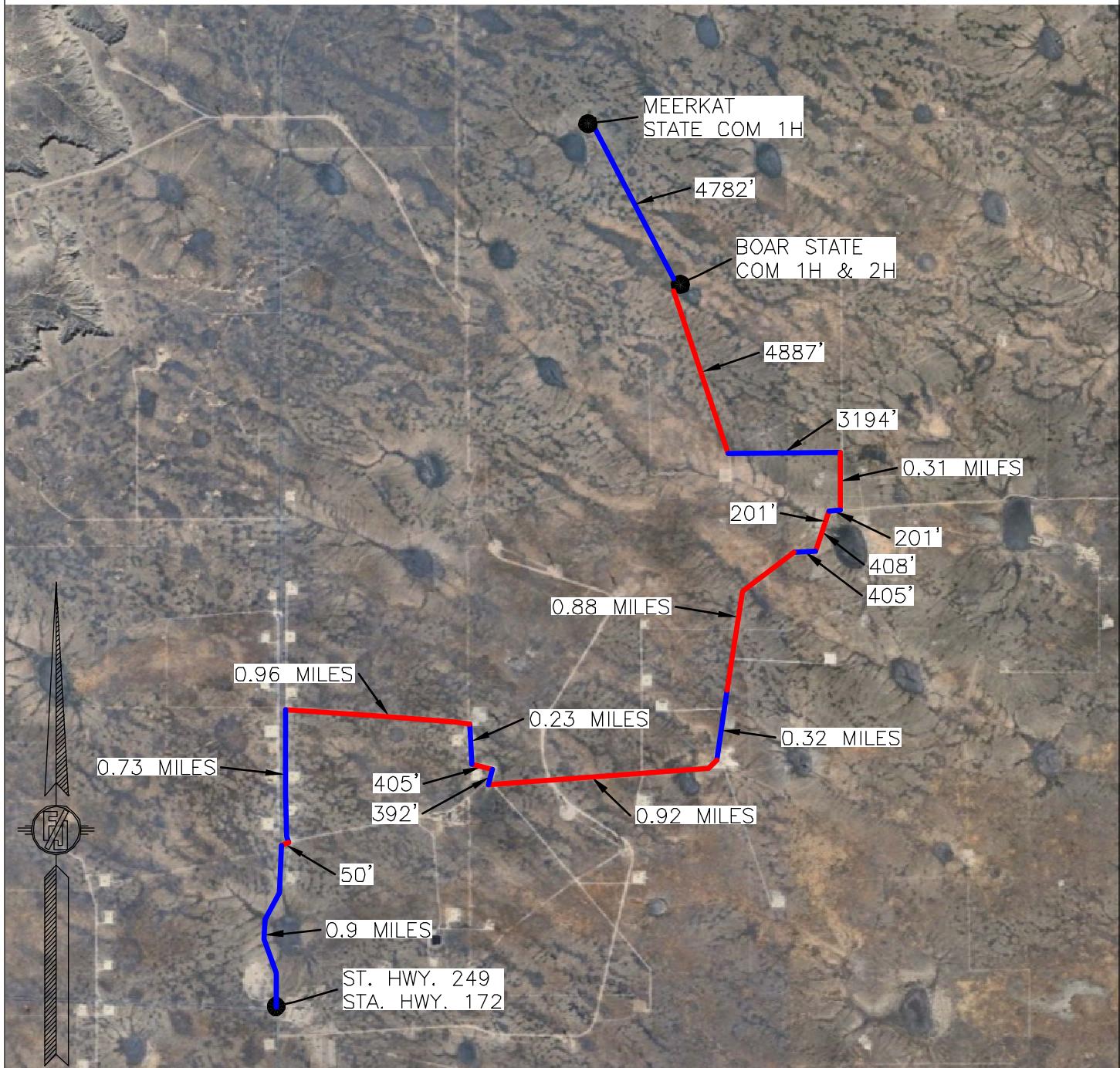
SHEET: 4-7

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

SURVEY NO. 10543

**MEERKAT STATE COM 1H
MACK ENERGY CORPORATION
IN THE E/2 SW/4 SE/4 OF
SECTION 24, TOWNSHIP 14 SOUTH, RANGE 31 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO
DECEMBER 4, 2025**

AERIAL ACCESS ROUTE MAP



NOT TO SCALE **DRIVING DIRECTIONS:** FROM THE INTERSECTION OF STATE HIGHWAY 249 & STATE HIGHWAY 172, GO NORTH ON STATE HIGHWAY 172 FOR APPROX. 0.9 OF A MILE, GO NORTHWEST ON 20' CLR FOR APPROX. 50', GO NORTH FOR APPROX. 0.73 OF A MILE, GO EAST APPROX. 0.96 OF A MILE, GO SOUTH APPROX. 0.23 OF A MILE, GO EAST APPROX. 405', GO SOUTHWEST APPROX. 392', GO EAST APPROX. 0.92 OF A MILE, GO NORTHEAST APPROX. 0.32 OF A MILE, GO NORTH APPROX. 0.88 OF A MILE, GO EAST APPROX. 405', GO NORTHEAST APPROX. 408', GO NORTHEAST APPROX. 201', GO EAST APPROX. 201', GO NORTH APPROX. 0.31 OF A MILE TO BEGIN ROAD SURVEY, FOLLOW ROAD SURVEY WEST APPROX. 3194', CONTINUE NORTHWEST APPROX. 4887' TO THE SOUTHWEST PAD CORNER FOR BOAR ST. COM 1H & 2H, FROM THE NORTHWEST PAD CORNER FOLLOW ROAD SURVEY NORTH-NORTHWEST APPROX. 4782' TO THE SOUTHEAST PAD CORNER FOR THIS LOCATION.

SHEET: 5-7

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

SURVEY NO. 10543

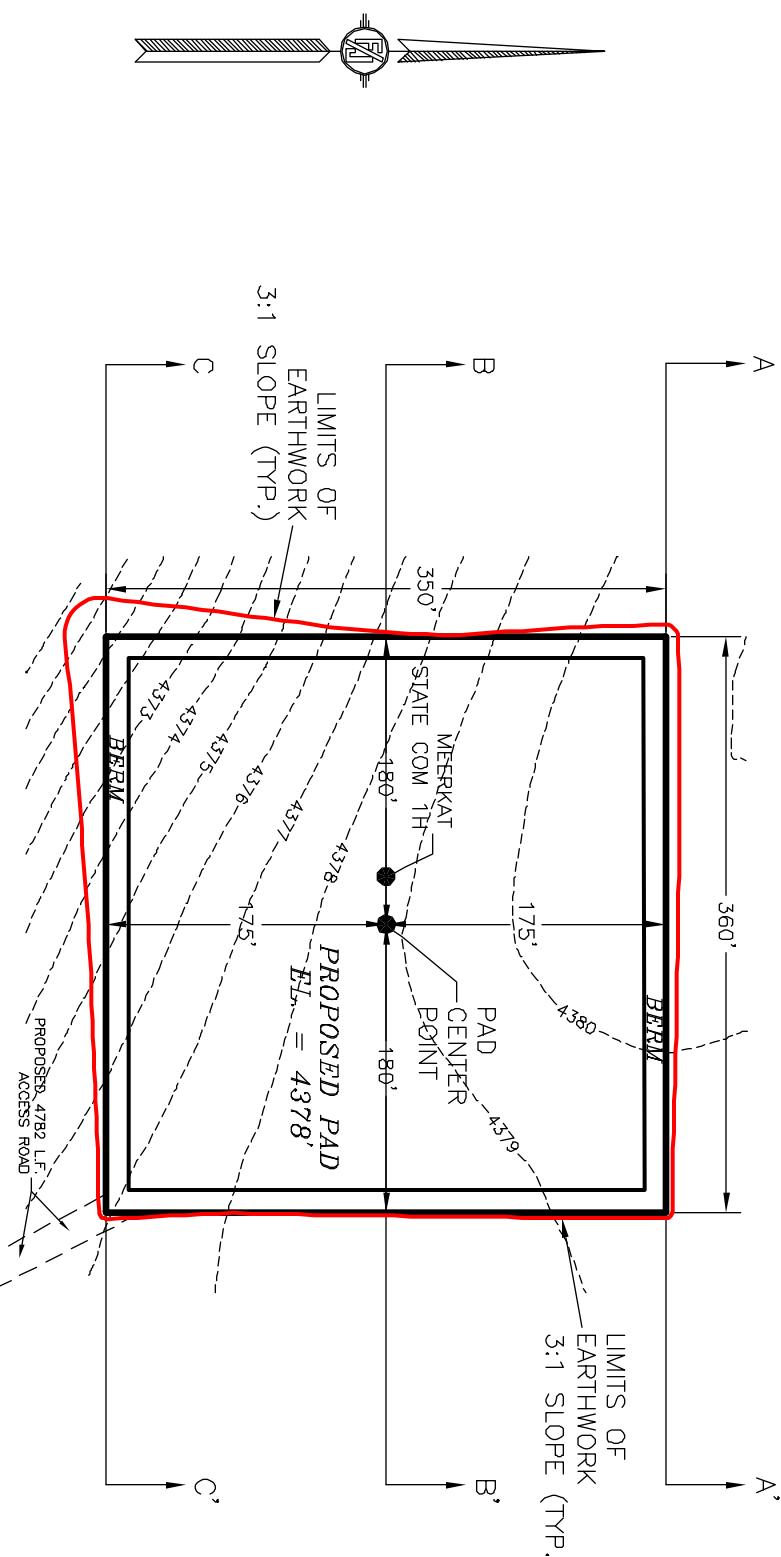
PLAN VIEW

I, FILMON F. JARAMAL, NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I HAVE INSPECTED AND RESPONDED FOR THIS SURVEY THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS SURVEY AND PLAN MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

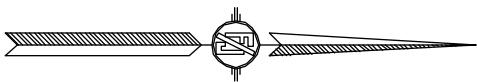
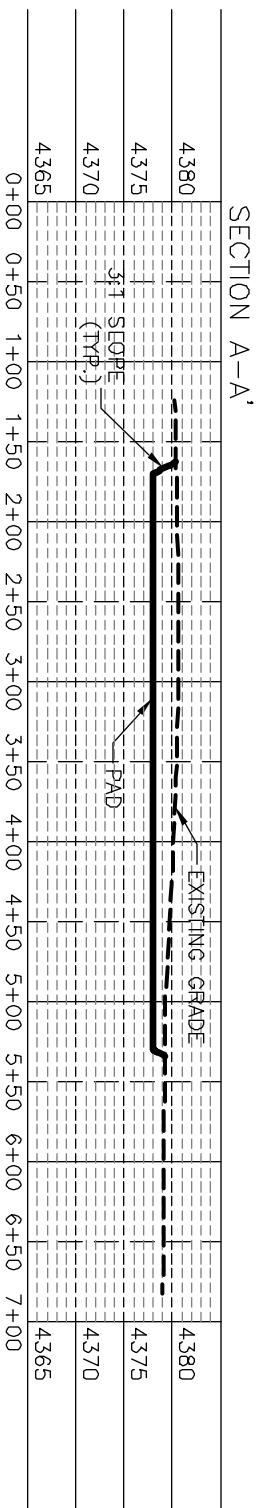
MACK ENERGY CORPORATION
PAD ELEVATIONS AND CROSS SECTIONS
FOR MEERKAT STATE COM 1H
SECTION 24, TOWNSHIP 14 SOUTH,
RANGE 31 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO

DECEMBER 4, 2025
301 SOUTH CANAL
(575) 234-3327
CARLSBAD, NEW MEXICO

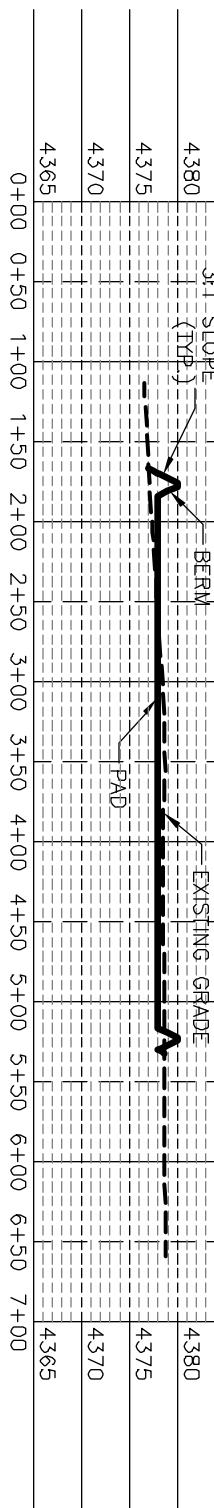
SCALE 1" = 120'		
CUT	FILL	NET
3356 CU. YD	4876 CU. YD	1520 CU. YD (FILL)
EARTHWORK QUANTITIES ARE ESTIMATED		



CROSS-SECTIONS



SECTION B-B'



SECTION C-C'

I, FILUMON F. JARAGA, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR, CERTIFY THAT THE INFORMATION CONTAINED AND RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS ACCURATE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND ABILITY, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

MACK ENERGY CORPORATION
ELEVATIONS AND CROSS SECTIONS

FOR MEERKAT STATE COM 1H
SECTION 24, TOWNSHIP 14 SOUTH,
DAKOTA TERRITORY.

CHAVES COUNTY, STATE OF NEW MEXICO RANGE 3, EAST, N.W.F.M.

MACK ENERGY CORPORATION PAD ELEVATIONS AND CROSS SECTIONS FOR MEERKAT STATE COM 1H SECTION 24, TOWNSHIP 14 SOUTH, RANGE 31 EAST, N.M.P.M.									
CHAVES COUNTY, STATE OF NEW MEXICO									
DECEMBER 4, 2025									
301 SOUTH CANAL (575) 234-3327									
CARLSBAD, NEW MEXICO									
SURVEY NO. 10543									
012 60 120 240									
SCALE 1" = 120' - 1" = 20' VER									
<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th>CUT</th> <th>FILL</th> <th>NET</th> </tr> <tr> <td>3356 CU. YD</td> <td>4876 CU. YD</td> <td>1520 CU. YD (FILL)</td> </tr> </table>				CUT	FILL	NET	3356 CU. YD	4876 CU. YD	1520 CU. YD (FILL)
CUT	FILL	NET							
3356 CU. YD	4876 CU. YD	1520 CU. YD (FILL)							
EARTHWORK QUANTITIES ARE ESTIMATED									

EARTHWORK QUANTITIES ARE ESTIMATED		
CUT	FILL	NET
3356 CU. YD	4876 CU. YD	1520 CU. YD (FILL)

SURVEYING, INC. DECEMBER 4, 2020 301 SOUTH CANAL (575) 234-3327 CARLSBAD, NEW MEXICO

FLUMON OF NEW MEXICO SURVEYING, INC. DECEMBER 4, 2020
301 SOUTH CANAL (575) 234-3327 CARLSBAD, NEW MEXICO SURVEY SHEET 7-7
PROFESSIONAL SURVEYING, INC. SURVEY NO. 10543

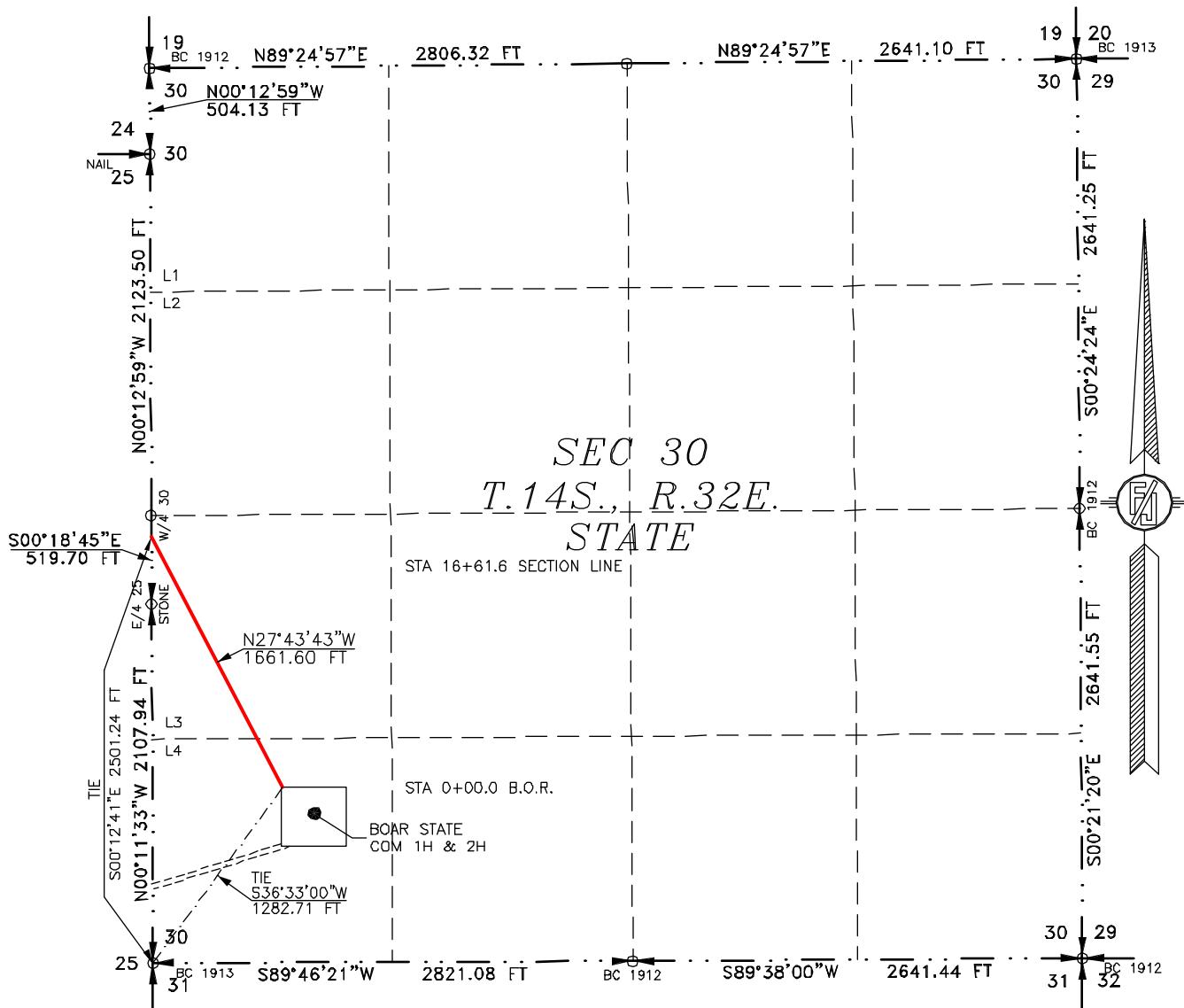
ACCESS ROAD PLAT

ACCESS ROAD FOR MEERKAT STATE COM 1H

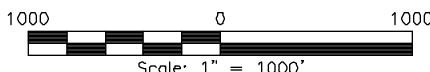
MACK ENERGY CORPORATION

*CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 30, TOWNSHIP 14 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
DECEMBER 4, 2025*

DECEMBER 4, 2025



SEE NEXT SHEET (2-6) FOR DESCRIPTION



Scale: 1" = 1000

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 TWENTY-EIGHTH DAY OF DECEMBER, 2025

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

(FEET) COORDINATE

ET. 7-6
MADRONE SURVEYING

SURVEY NO. 10543

ACCESS ROAD PLAT**ACCESS ROAD FOR MEERKAT STATE COM 1H****MACK ENERGY CORPORATION**

**CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 30, TOWNSHIP 14 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
DECEMBER 4, 2025**

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 30, TOWNSHIP 14 SOUTH, RANGE 32 EAST, N.M.P.M., LEA COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN LOT 4 OF SAID SECTION 30, TOWNSHIP 14 SOUTH, RANGE 32 EAST, N.M.P.M., WHENCE THE SOUTHWEST CORNER OF SAID SECTION 30, TOWNSHIP 14 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS S36°33'00"W, A DISTANCE OF 1282.71 FEET;

THENCE N27°43'43"W A DISTANCE OF 1661.60 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHWEST CORNER OF SAID SECTION 30, TOWNSHIP 14 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS S00°12'41"E, A DISTANCE OF 2501.24 FEET;

SAID STRIP OF LAND BEING 1661.60 FEET OR 100.70 RODS IN LENGTH, CONTAINING 1.145 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

LOT 4	324.60 L.F.	19.67 RODS	0.224 ACRES
LOT 3	1337.00 L.F.	81.03 RODS	0.921 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 4 DAY OF DECEMBER 2025

NEW MEXICO, THIS 4 DAY OF DECEMBER 2025

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

FILIMON F. JARAMILLO PLS

301 SOUTH CANAL
(575) 234-3327

PROFESSIONAL SURVEYOR

SURVEY NO. 10543

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

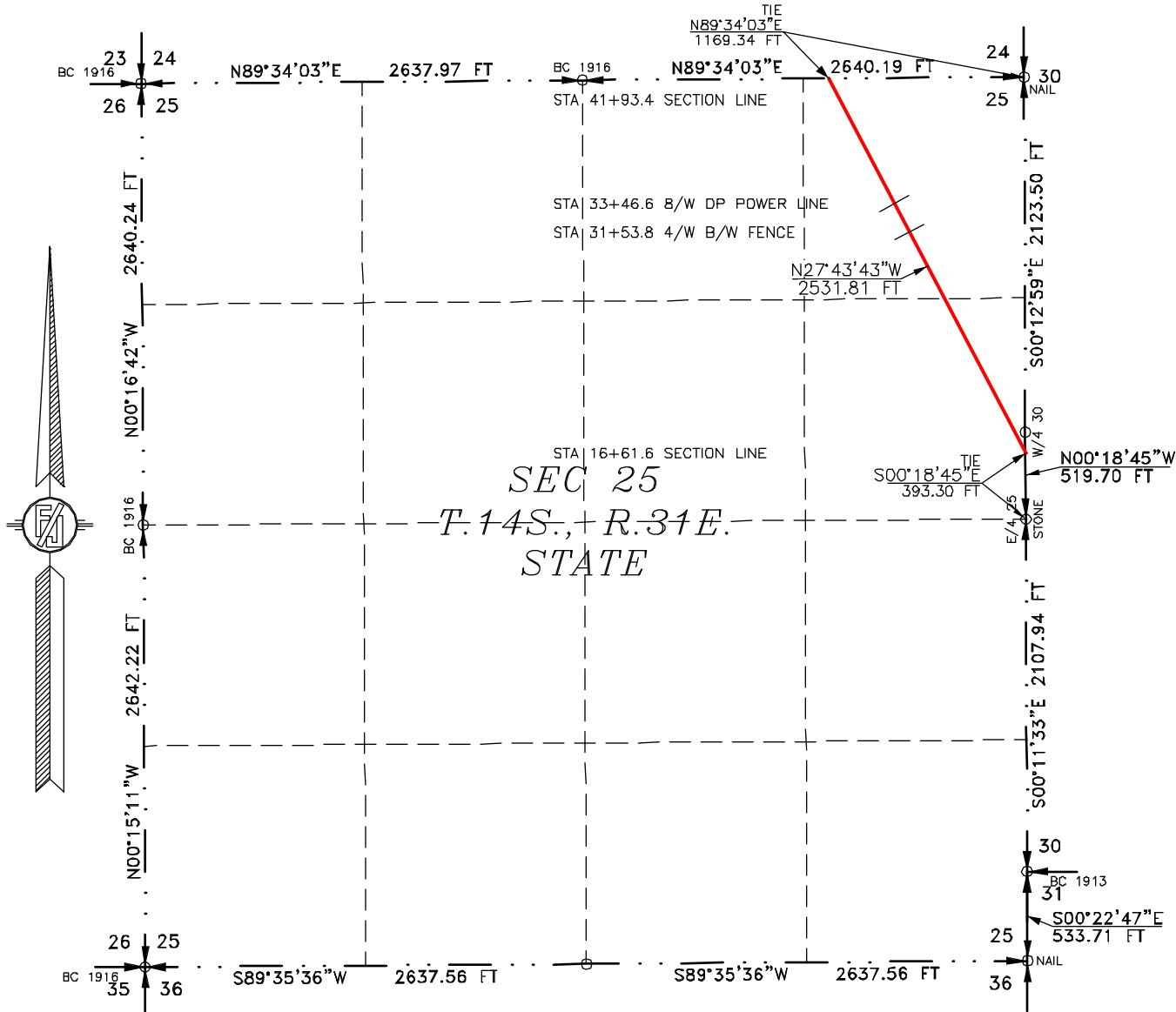
SHEET: 2-6

ACCESS ROAD PLAT

ACCESS ROAD FOR MEERKAT STATE COM 1H

MACK ENERGY CORPORATION

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
 SECTION 25, TOWNSHIP 14 SOUTH, RANGE 31 EAST, N.M.P.M.
 CHAVES COUNTY, STATE OF NEW MEXICO
 DECEMBER 4, 2025



SEE NEXT SHEET (4-6) FOR DESCRIPTION



Scale: 1" = 1000'

GENERAL NOTES

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

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

SHEET: 3-6

MADRON SURVEYING, INC. SURVEY NO. 10543

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 28TH DAY OF DECEMBER 2028

NEW MEXICO, THIS 28TH DAY OF DECEMBER 2028

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

ACCESS ROAD PLAT

ACCESS ROAD FOR MEERKAT STATE COM 1H

MACK ENERGY CORPORATION

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
 SECTION 25, TOWNSHIP 14 SOUTH, RANGE 31 EAST, N.M.P.M.
 CHAVES COUNTY, STATE OF NEW MEXICO
 DECEMBER 4, 2025

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 25, TOWNSHIP 14 SOUTH, RANGE 31 EAST, N.M.P.M., CHAVES COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE SE/4 NE/4 OF SAID SECTION 25, TOWNSHIP 14 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE EAST QUARTER CORNER OF SAID SECTION 25, TOWNSHIP 14 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS S00°18'45"E, A DISTANCE OF 393.30 FEET;
 THENCE N27°43'43"W A DISTANCE OF 2531.81 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHEAST CORNER OF SAID SECTION 25, TOWNSHIP 14 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N89°34'03"E, A DISTANCE OF 1169.34 FEET;

SAID STRIP OF LAND BEING 2531.81 FEET OR 153.44 RODS IN LENGTH, CONTAINING 1.744 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SE/4 NE/4	1044.76 L.F.	63.32 RODS	0.720 ACRES
NE/4 NE/4	1487.05 L.F.	90.12 RODS	1.024 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 4 DAY OF DECEMBER 2025

NEW MEXICO, THIS 4 DAY OF DECEMBER 2025

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

FILIMON F. JARAMILLO PLS

301 SOUTH CANAL
 (575) 234-3327
 PROFESSIONAL SURVEYOR

SURVEY NO. 10543

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

GENERAL NOTES

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

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

SHEET: 4-6

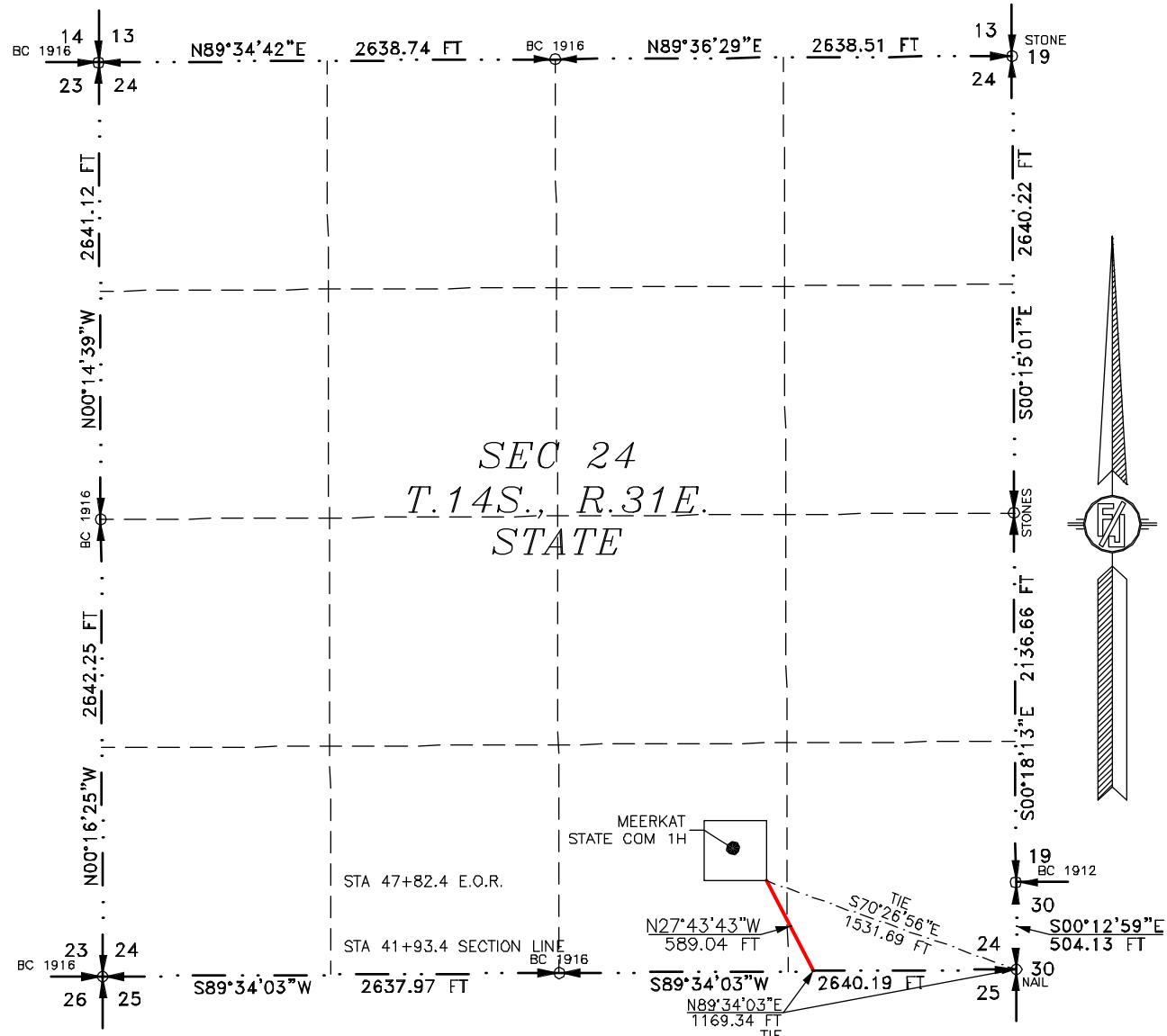
MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

ACCESS ROAD PLAT

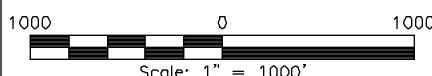
ACCESS ROAD FOR MEERKAT STATE COM 1H

MACK ENERGY CORPORATION

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
 SECTION 24, TOWNSHIP 14 SOUTH, RANGE 31 EAST, N.M.P.M.
 CHAVES COUNTY, STATE OF NEW MEXICO
 DECEMBER 4, 2025



SEE NEXT SHEET (6-6) 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: 5-6

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 4 DAY OF DECEMBER 2028
 NEW MEXICO, THIS 4 DAY OF DECEMBER 2028

F. JARAMILLO
 12797
 MADRON SURVEYING, INC.
 301 SOUTH CANAL
 CARLSBAD, NEW MEXICO 88220
 Phone (575) 234-3327

FILMON F. JARAMILLO PLS
 301 SOUTH CANAL
 (575) 234-3327
 PROFESSIONAL SURVEYOR

SURVEY NO. 10543

CARLSBAD, NEW MEXICO

ACCESS ROAD PLAT

ACCESS ROAD FOR MEERKAT STATE COM 1H

MACK ENERGY CORPORATION

*CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 24, TOWNSHIP 14 SOUTH, RANGE 31 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO
DECEMBER 4, 2025*

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 24, TOWNSHIP 14 SOUTH, RANGE 31 EAST, N.M.P.M., CHAVES COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE SE^{1/4} SE^{1/4} OF SAID SECTION 24, TOWNSHIP 14 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE SOUTHEAST CORNER OF SAID SECTION 24, TOWNSHIP 14 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N89°34'03"E, A DISTANCE OF 1169.34 FEET;

THENCE N27°43'43" W A DISTANCE OF 589.04 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHEAST CORNER OF SAID SECTION 24, TOWNSHIP 14 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS S70°26'56"E, A DISTANCE OF 1531.69 FEET;

SAID STRIP OF LAND BEING 589.04 FEET OR 35.70 RODS IN LENGTH, CONTAINING 0.406 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SE/4 SE/4 326.83 L.F. 19.81 RODS 0.225 ACRES
SW/4 SE/4 262.21 L.F. 15.89 RODS 0.181 ACRES

SURVEYOR CERTIFICATE

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: 6-6

MADRONE SURVEYING, INC.

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 EX

2025
MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3327

SURVEY NO 10543

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>

Form APD Comments

Permit 408084

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

PERMIT COMMENTS

Operator Name and Address: MACK ENERGY CORP [13837] P.O. Box 960 Artesia, NM 882110960	API Number: 30-005-64418
	Well: Meerkat State Com #001H

Created By	Comment	Comment Date
jeffrey.harrison	Submitted as defining well.	2/4/2026

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 408084

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: MACK ENERGY CORP [13837] P.O. Box 960 Artesia, NM 882110960	API Number: 30-005-64418
	Well: Meerkat State Com #001H

OCD Reviewer	Condition
jeffrey.harrison	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.
jeffrey.harrison	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.
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	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	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	Cement is required to circulate on both surface and production strings of casing.

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

Submit Electronically
Via E-permitting

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description Effective May 25, 2021

I. Operator: Mack Energy Corporation **OGRID:** 013837 **Date:** 01 / 14 / 2026

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
Meerkat State Com 1H		O Sec 24 T14S R31E	700FSL 1650 FE	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
Meerkat State Com 1H		4/1/2026	4/21/2026	5/21/2026	5/21/2026	5/21/2026

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:	1/14/2026
Phone:	575-748-1288
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)	
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

VI. Separation Equipment:

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

VII. Operational Practices:

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

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

VIII. Best Management Practices:

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

Meerkat State Com #1H, Plan 1

Operator	Mack Energy Corp			Units	feet, °/100ft		15:00 Monday, December 15, 2025 Page 1 of 4				
Field				County	Chaves		Vertical Section Azimuth 180.23				
Well Name	Meerkat State Com #1H			State	New Mexico		Survey Calculation Method Minimum Curvature				
Plan	1			Country	USA		Database Access				
Location	SL: 700 FSL & 1650 FEL Sec 24-T14S-R31E BHL: 1 FSL & 1650 FEL Sec 25-T14S-R31E					Map Zone	UTM		Lat Long Ref		
Site						Surface X	2016664.6		Surface Long		
Slot Name	UWI					Surface Y	12011104.5		Surface Lat		
Well Number	API					Surface Z	4395		Global Z Ref KB		
Project	MD/TVD Ref KB					Ground Level	4379		Local North Ref Grid		
DIRECTIONAL WELL PLAN											
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	Sys TVD*	
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft	
*** TIE (at MD = 3610.00)											
3610.00	0.00	0.0	3610.00	0.00	0.00		0.00	2016664.60	12011104.50	785.00	
3650.00	0.00	0.0	3650.00	0.00	0.00	0.00	0.00	2016664.60	12011104.50	745.00	
3700.00	0.00	0.0	3700.00	0.00	0.00	0.00	0.00	2016664.60	12011104.50	695.00	
*** KOP 8 DEGREE (at MD = 3710.00)											
3710.00	0.00	0.0	3710.00	0.00	0.00	0.00	0.00	2016664.60	12011104.50	685.00	
3750.00	3.20	180.2	3749.98	-1.12	0.00	8.00	1.12	2016664.60	12011103.38	645.02	
3800.00	7.20	180.2	3799.76	-5.65	-0.02	8.00	5.65	2016664.58	12011098.85	595.24	
3850.00	11.20	180.2	3849.11	-13.64	-0.05	8.00	13.64	2016664.55	12011090.86	545.89	
3900.00	15.20	180.2	3897.78	-25.05	-0.10	8.00	25.06	2016664.50	12011079.45	497.22	
3950.00	19.20	180.2	3945.53	-39.84	-0.16	8.00	39.84	2016664.44	12011064.66	449.47	
4000.00	23.20	180.2	3992.14	-57.91	-0.23	8.00	57.92	2016664.37	12011046.59	402.86	
4050.00	27.20	180.2	4037.37	-79.20	-0.32	8.00	79.20	2016664.28	12011025.30	357.63	
4100.00	31.20	180.2	4081.01	-103.59	-0.42	8.00	103.59	2016664.18	12011000.91	313.99	
4150.00	35.20	180.2	4122.84	-130.96	-0.53	8.00	130.96	2016664.07	12010973.54	272.16	
4200.00	39.20	180.2	4162.66	-161.18	-0.65	8.00	161.18	2016663.95	12010943.32	232.34	
4250.00	43.20	180.2	4200.27	-194.11	-0.78	8.00	194.11	2016663.82	12010910.39	194.73	
4300.00	47.20	180.2	4235.50	-229.58	-0.92	8.00	229.58	2016663.68	12010874.92	159.50	
4350.00	51.20	180.2	4268.16	-267.42	-1.07	8.00	267.43	2016663.53	12010837.08	126.84	
*** 55 DEGREE TANGENT (at MD = 4397.50)											
4397.50	55.00	180.2	4296.67	-305.40	-1.23	8.00	305.40	2016663.37	12010799.10	98.33	
4400.00	55.00	180.2	4298.11	-307.45	-1.23	0.00	307.45	2016663.37	12010797.05	96.89	
4450.00	55.00	180.2	4326.79	-348.41	-1.40	0.00	348.41	2016663.20	12010756.09	68.21	
4500.00	55.00	180.2	4355.47	-389.36	-1.56	0.00	389.37	2016663.04	12010715.14	39.53	
4550.00	55.00	180.2	4384.14	-430.32	-1.73	0.00	430.32	2016662.87	12010674.18	10.86	
*** 10 DEGREE BUILD (at MD = 4597.50)											
4597.50	55.00	180.2	4411.39	-469.23	-1.88	0.00	469.23	2016662.72	12010635.27	-16.39	
4600.00	55.25	180.2	4412.82	-471.28	-1.89	10.00	471.28	2016662.71	12010633.22	-17.82	
4650.00	60.25	180.2	4439.49	-513.55	-2.06	10.00	513.56	2016662.54	12010590.95	-44.49	
4700.00	65.25	180.2	4462.38	-557.99	-2.24	10.00	557.99	2016662.36	12010546.51	-67.38	
4750.00	70.25	180.2	4481.30	-604.25	-2.43	10.00	604.26	2016662.17	12010500.25	-86.30	
4800.00	75.25	180.2	4496.13	-651.99	-2.62	10.00	651.99	2016661.98	12010452.51	-101.13	
4850.00	80.25	180.2	4506.73	-700.83	-2.81	10.00	700.84	2016661.79	12010403.67	-111.73	
4900.00	85.25	180.2	4513.04	-750.42	-3.01	10.00	750.42	2016661.59	12010354.08	-118.04	
*** LANDING POINT (at MD = 4944.20)											
4944.20	89.67	180.2	4515.00	-794.56	-3.19	10.00	794.57	2016661.41	12010309.94	-120.00	
4950.00	89.67	180.2	4515.03	-800.36	-3.21	0.00	800.37	2016661.39	12010304.14	-120.03	
5000.00	89.67	180.2	4515.32	-850.36	-3.41	0.00	850.37	2016661.19	12010254.14	-120.32	
5050.00	89.67	180.2	4515.61	-900.36	-3.61	0.00	900.37	2016660.99	12010204.14	-120.61	

Meerkat State Com #1H, Plan 1

Operator	Mack Energy Corp			Units	feet, °/100ft		15:00 Monday, December 15, 2025 Page 2 of 4				
Field				County	Chaves		Vertical Section Azimuth 180.23				
Well Name	Meerkat State Com #1H			State	New Mexico		Survey Calculation Method Minimum Curvature				
Plan	1			Country	USA		Database Access				
Location	SL: 700 FSL & 1650 FEL Sec 24-T14S-R31E BHL: 1 FSL & 1650 FEL Sec 25-T14S-R31E					Map Zone	UTM		Lat Long Ref		
Site						Surface X	2016664.6		Surface Long		
Slot Name	UWI					Surface Y	12011104.5		Surface Lat		
Well Number	API					Surface Z	4395		Global Z Ref KB		
Project	MD/TVD Ref KB					Ground Level	4379		Local North Ref Grid		
DIRECTIONAL WELL PLAN											
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	Sys TVD*	
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft	
5100.00	89.67	180.2	4515.90	-950.36	-3.82	0.00	950.37	2016660.79	12010154.14	-120.90	
5150.00	89.67	180.2	4516.18	-1000.36	-4.02	0.00	1000.37	2016660.58	12010104.14	-121.18	
5200.00	89.67	180.2	4516.47	-1050.36	-4.22	0.00	1050.36	2016660.38	12010054.14	-121.47	
5250.00	89.67	180.2	4516.76	-1100.36	-4.42	0.00	1100.36	2016660.18	12010004.15	-121.76	
5300.00	89.67	180.2	4517.05	-1150.35	-4.62	0.00	1150.36	2016659.98	12009954.15	-122.05	
5350.00	89.67	180.2	4517.34	-1200.35	-4.82	0.00	1200.36	2016659.78	12009904.15	-122.34	
5400.00	89.67	180.2	4517.62	-1250.35	-5.02	0.00	1250.36	2016659.58	12009854.15	-122.62	
5450.00	89.67	180.2	4517.91	-1300.35	-5.22	0.00	1300.36	2016659.38	12009804.15	-122.91	
5500.00	89.67	180.2	4518.20	-1350.35	-5.42	0.00	1350.36	2016659.18	12009754.15	-123.20	
5550.00	89.67	180.2	4518.49	-1400.35	-5.62	0.00	1400.36	2016658.98	12009704.15	-123.49	
5600.00	89.67	180.2	4518.78	-1450.35	-5.82	0.00	1450.36	2016658.78	12009654.15	-123.78	
5650.00	89.67	180.2	4519.06	-1500.35	-6.02	0.00	1500.36	2016658.58	12009604.15	-124.06	
5700.00	89.67	180.2	4519.35	-1550.34	-6.22	0.00	1550.36	2016658.38	12009554.16	-124.35	
5750.00	89.67	180.2	4519.64	-1600.34	-6.42	0.00	1600.36	2016658.18	12009504.16	-124.64	
5800.00	89.67	180.2	4519.93	-1650.34	-6.62	0.00	1650.35	2016657.98	12009454.16	-124.93	
5850.00	89.67	180.2	4520.22	-1700.34	-6.83	0.00	1700.35	2016657.77	12009404.16	-125.22	
5900.00	89.67	180.2	4520.50	-1750.34	-7.03	0.00	1750.35	2016657.57	12009354.16	-125.50	
5950.00	89.67	180.2	4520.79	-1800.34	-7.23	0.00	1800.35	2016657.37	12009304.16	-125.79	
6000.00	89.67	180.2	4521.08	-1850.34	-7.43	0.00	1850.35	2016657.17	12009254.16	-126.08	
6050.00	89.67	180.2	4521.37	-1900.34	-7.63	0.00	1900.35	2016656.97	12009204.16	-126.37	
6100.00	89.67	180.2	4521.66	-1950.33	-7.83	0.00	1950.35	2016656.77	12009154.17	-126.66	
6150.00	89.67	180.2	4521.94	-2000.33	-8.03	0.00	2000.35	2016656.57	12009104.17	-126.94	
6200.00	89.67	180.2	4522.23	-2050.33	-8.23	0.00	2050.35	2016656.37	12009054.17	-127.23	
6250.00	89.67	180.2	4522.52	-2100.33	-8.43	0.00	2100.35	2016656.17	12009004.17	-127.52	
6300.00	89.67	180.2	4522.81	-2150.33	-8.63	0.00	2150.35	2016655.97	12008954.17	-127.81	
6350.00	89.67	180.2	4523.10	-2200.33	-8.83	0.00	2200.35	2016655.77	12008904.17	-128.10	
6400.00	89.67	180.2	4523.38	-2250.33	-9.03	0.00	2250.34	2016655.57	12008854.17	-128.38	
6450.00	89.67	180.2	4523.67	-2300.33	-9.23	0.00	2300.34	2016655.37	12008804.17	-128.67	
6500.00	89.67	180.2	4523.96	-2350.32	-9.43	0.00	2350.34	2016655.17	12008754.18	-128.96	
6550.00	89.67	180.2	4524.25	-2400.32	-9.64	0.00	2400.34	2016654.96	12008704.18	-129.25	
6600.00	89.67	180.2	4524.54	-2450.32	-9.84	0.00	2450.34	2016654.76	12008654.18	-129.54	
6650.00	89.67	180.2	4524.82	-2500.32	-10.04	0.00	2500.34	2016654.56	12008604.18	-129.82	
6700.00	89.67	180.2	4525.11	-2550.32	-10.24	0.00	2550.34	2016654.36	12008554.18	-130.11	
6750.00	89.67	180.2	4525.40	-2600.32	-10.44	0.00	2600.34	2016654.16	12008504.18	-130.40	
6800.00	89.67	180.2	4525.69	-2650.32	-10.64	0.00	2650.34	2016653.96	12008454.18	-130.69	
6850.00	89.67	180.2	4525.98	-2700.32	-10.84	0.00	2700.34	2016653.76	12008404.18	-130.98	
6900.00	89.67	180.2	4526.26	-2750.31	-11.04	0.00	2750.34	2016653.56	12008354.19	-131.26	

Meerkat State Com #1H, Plan 1

Operator	Mack Energy Corp			Units	feet, °/100ft		15:00 Monday, December 15, 2025 Page 3 of 4				
Field				County	Chaves		Vertical Section Azimuth 180.23				
Well Name	Meerkat State Com #1H			State	New Mexico		Survey Calculation Method Minimum Curvature				
Plan	1			Country	USA		Database Access				
Location	SL: 700 FSL & 1650 FEL Sec 24-T14S-R31E BHL: 1 FSL & 1650 FEL Sec 25-T14S-R31E					Map Zone	UTM		Lat Long Ref		
Site						Surface X	2016664.6		Surface Long		
Slot Name	UWI					Surface Y	12011104.5		Surface Lat		
Well Number	API					Surface Z	4395		Global Z Ref KB		
Project	MD/TVD Ref KB					Ground Level	4379		Local North Ref Grid		
DIRECTIONAL WELL PLAN											
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	Sys TVD*	
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft	
6950.00	89.67	180.2	4526.55	-2800.31	-11.24	0.00	2800.34	2016653.36	12008304.19	-131.55	
7000.00	89.67	180.2	4526.84	-2850.31	-11.44	0.00	2850.33	2016653.16	12008254.19	-131.84	
7050.00	89.67	180.2	4527.13	-2900.31	-11.64	0.00	2900.33	2016652.96	12008204.19	-132.13	
7100.00	89.67	180.2	4527.41	-2950.31	-11.84	0.00	2950.33	2016652.76	12008154.19	-132.41	
7150.00	89.67	180.2	4527.70	-3000.31	-12.04	0.00	3000.33	2016652.56	12008104.19	-132.70	
7200.00	89.67	180.2	4527.99	-3050.31	-12.24	0.00	3050.33	2016652.36	12008054.19	-132.99	
7250.00	89.67	180.2	4528.28	-3100.31	-12.45	0.00	3100.33	2016652.15	12008004.19	-133.28	
7300.00	89.67	180.2	4528.57	-3150.30	-12.65	0.00	3150.33	2016651.95	12007954.20	-133.57	
7350.00	89.67	180.2	4528.85	-3200.30	-12.85	0.00	3200.33	2016651.75	12007904.20	-133.85	
7400.00	89.67	180.2	4529.14	-3250.30	-13.05	0.00	3250.33	2016651.55	12007854.20	-134.14	
7450.00	89.67	180.2	4529.43	-3300.30	-13.25	0.00	3300.33	2016651.35	12007804.20	-134.43	
7500.00	89.67	180.2	4529.72	-3350.30	-13.45	0.00	3350.33	2016651.15	12007754.20	-134.72	
7550.00	89.67	180.2	4530.01	-3400.30	-13.65	0.00	3400.33	2016650.95	12007704.20	-135.01	
7600.00	89.67	180.2	4530.29	-3450.30	-13.85	0.00	3450.32	2016650.75	12007654.20	-135.29	
7650.00	89.67	180.2	4530.58	-3500.30	-14.05	0.00	3500.32	2016650.55	12007604.20	-135.58	
7700.00	89.67	180.2	4530.87	-3550.29	-14.25	0.00	3550.32	2016650.35	12007554.21	-135.87	
7750.00	89.67	180.2	4531.16	-3600.29	-14.45	0.00	3600.32	2016650.15	12007504.21	-136.16	
7800.00	89.67	180.2	4531.45	-3650.29	-14.65	0.00	3650.32	2016649.95	12007454.21	-136.45	
7850.00	89.67	180.2	4531.73	-3700.29	-14.85	0.00	3700.32	2016649.75	12007404.21	-136.73	
7900.00	89.67	180.2	4532.02	-3750.29	-15.05	0.00	3750.32	2016649.55	12007354.21	-137.02	
7950.00	89.67	180.2	4532.31	-3800.29	-15.26	0.00	3800.32	2016649.34	12007304.21	-137.31	
8000.00	89.67	180.2	4532.60	-3850.29	-15.46	0.00	3850.32	2016649.14	12007254.21	-137.60	
8050.00	89.67	180.2	4532.89	-3900.29	-15.66	0.00	3900.32	2016648.94	12007204.21	-137.89	
8100.00	89.67	180.2	4533.17	-3950.28	-15.86	0.00	3950.32	2016648.74	12007154.22	-138.17	
8150.00	89.67	180.2	4533.46	-4000.28	-16.06	0.00	4000.32	2016648.54	12007104.22	-138.46	
8200.00	89.67	180.2	4533.75	-4050.28	-16.26	0.00	4050.31	2016648.34	12007054.22	-138.75	
8250.00	89.67	180.2	4534.04	-4100.28	-16.46	0.00	4100.31	2016648.14	12007004.22	-139.04	
8300.00	89.67	180.2	4534.33	-4150.28	-16.66	0.00	4150.31	2016647.94	12006954.22	-139.33	
8350.00	89.67	180.2	4534.61	-4200.28	-16.86	0.00	4200.31	2016647.74	12006904.22	-139.61	
8400.00	89.67	180.2	4534.90	-4250.28	-17.06	0.00	4250.31	2016647.54	12006854.22	-139.90	
8450.00	89.67	180.2	4535.19	-4300.28	-17.26	0.00	4300.31	2016647.34	12006804.22	-140.19	
8500.00	89.67	180.2	4535.48	-4350.27	-17.46	0.00	4350.31	2016647.14	12006754.23	-140.48	
8550.00	89.67	180.2	4535.77	-4400.27	-17.66	0.00	4400.31	2016646.94	12006704.23	-140.77	
8600.00	89.67	180.2	4536.05	-4450.27	-17.86	0.00	4450.31	2016646.74	12006654.23	-141.05	
8650.00	89.67	180.2	4536.34	-4500.27	-18.07	0.00	4500.31	2016646.53	12006604.23	-141.34	
8700.00	89.67	180.2	4536.63	-4550.27	-18.27	0.00	4550.31	2016646.33	12006554.23	-141.63	
8750.00	89.67	180.2	4536.92	-4600.27	-18.47	0.00	4600.31	2016646.13	12006504.23	-141.92	

Meerkat State Com #1H, Plan 1

Operator	Mack Energy Corp			Units	feet, °/100ft		15:00 Monday, December 15, 2025 Page 4 of 4				
Field				County	Chaves		Vertical Section Azimuth 180.23				
Well Name	Meerkat State Com #1H			State	New Mexico		Survey Calculation Method Minimum Curvature				
Plan	1			Country	USA		Database Access				
Location	SL: 700 FSL & 1650 FEL Sec 24-T14S-R31E BHL: 1 FSL & 1650 FEL Sec 25-T14S-R31E					Map Zone	UTM		Lat Long Ref		
Site						Surface X	2016664.6		Surface Long		
Slot Name	UWI					Surface Y	12011104.5		Surface Lat		
Well Number	API					Surface Z	4395		Global Z Ref KB		
Project	MD/TVD Ref KB					Ground Level	4379		Local North Ref Grid		
DIRECTIONAL WELL PLAN											
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	Sys TVD*	
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft	
8800.00	89.67	180.2	4537.21	-4650.27	-18.67	0.00	4650.30	2016645.93	12006454.23	-142.21	
8850.00	89.67	180.2	4537.49	-4700.27	-18.87	0.00	4700.30	2016645.73	12006404.23	-142.49	
8900.00	89.67	180.2	4537.78	-4750.27	-19.07	0.00	4750.30	2016645.53	12006354.24	-142.78	
8950.00	89.67	180.2	4538.07	-4800.26	-19.27	0.00	4800.30	2016645.33	12006304.24	-143.07	
9000.00	89.67	180.2	4538.36	-4850.26	-19.47	0.00	4850.30	2016645.13	12006254.24	-143.36	
9050.00	89.67	180.2	4538.65	-4900.26	-19.67	0.00	4900.30	2016644.93	12006204.24	-143.65	
9100.00	89.67	180.2	4538.93	-4950.26	-19.87	0.00	4950.30	2016644.73	12006154.24	-143.93	
9150.00	89.67	180.2	4539.22	-5000.26	-20.07	0.00	5000.30	2016644.53	12006104.24	-144.22	
9200.00	89.67	180.2	4539.51	-5050.26	-20.27	0.00	5050.30	2016644.33	12006054.24	-144.51	
9250.00	89.67	180.2	4539.80	-5100.26	-20.47	0.00	5100.30	2016644.13	12006004.24	-144.80	
9300.00	89.67	180.2	4540.09	-5150.26	-20.67	0.00	5150.30	2016643.93	12005954.24	-145.09	
9350.00	89.67	180.2	4540.37	-5200.25	-20.88	0.00	5200.30	2016643.72	12005904.25	-145.37	
9400.00	89.67	180.2	4540.66	-5250.25	-21.08	0.00	5250.30	2016643.52	12005854.25	-145.66	
9450.00	89.67	180.2	4540.95	-5300.25	-21.28	0.00	5300.29	2016643.32	12005804.25	-145.95	
9500.00	89.67	180.2	4541.24	-5350.25	-21.48	0.00	5350.29	2016643.12	12005754.25	-146.24	
9550.00	89.67	180.2	4541.53	-5400.25	-21.68	0.00	5400.29	2016642.92	12005704.25	-146.53	
9600.00	89.67	180.2	4541.81	-5450.25	-21.88	0.00	5450.29	2016642.72	12005654.25	-146.81	
9650.00	89.67	180.2	4542.10	-5500.25	-22.08	0.00	5500.29	2016642.52	12005604.25	-147.10	
9700.00	89.67	180.2	4542.39	-5550.25	-22.28	0.00	5550.29	2016642.32	12005554.25	-147.39	
9750.00	89.67	180.2	4542.68	-5600.24	-22.48	0.00	5600.29	2016642.12	12005504.26	-147.68	
9800.00	89.67	180.2	4542.97	-5650.24	-22.68	0.00	5650.29	2016641.92	12005454.26	-147.97	
9850.00	89.67	180.2	4543.25	-5700.24	-22.88	0.00	5700.29	2016641.72	12005404.26	-148.25	
9900.00	89.67	180.2	4543.54	-5750.24	-23.08	0.00	5750.29	2016641.52	12005354.26	-148.54	
9950.00	89.67	180.2	4543.83	-5800.24	-23.28	0.00	5800.29	2016641.32	12005304.26	-148.83	
10000.00	89.67	180.2	4544.12	-5850.24	-23.48	0.00	5850.29	2016641.12	12005254.26	-149.12	
10050.00	89.67	180.2	4544.41	-5900.24	-23.69	0.00	5900.28	2016640.91	12005204.26	-149.41	
10100.00	89.67	180.2	4544.69	-5950.24	-23.89	0.00	5950.28	2016640.71	12005154.26	-149.69	
10150.00	89.67	180.2	4544.98	-6000.23	-24.09	0.00	6000.28	2016640.51	12005104.27	-149.98	
10200.00	89.67	180.2	4545.27	-6050.23	-24.29	0.00	6050.28	2016640.31	12005054.27	-150.27	
10250.00	89.67	180.2	4545.56	-6100.23	-24.49	0.00	6100.28	2016640.11	12005004.27	-150.56	
10300.00	89.67	180.2	4545.85	-6150.23	-24.69	0.00	6150.28	2016639.91	12004954.27	-150.85	
*** TD (at MD = 10300.20)											
10300.20	89.67	180.2	4545.85	-6150.43	-24.69	0.00	6150.48	2016639.91	12004954.07	-150.85	