

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

Form C-101
Revised July 18, 2013

☐ AMENDED REPORT

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

¹ Operator Name and Address Mack Energy Corporation P.O. Box 960 Artesia, NM 88210		² OGRID Number 013837
		³ API Number 30-025-00331
⁴ Property Code 332746	⁵ Property Name Sandhill State	⁶ Well No. 1

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
N	31	14S	32E		658.9	South	2163.6	West	Lea, NM

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County

9. Pool Information

DOUBLE L; SAN ANDRES	Pool Name	Pool Code 19140
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Additional Well Information

¹¹ Work Type Re-Enter	¹² Well Type Oil	¹³ Cable/Rotary	¹⁴ Lease Type State	¹⁵ Ground Level Elevation 4338.6
¹⁶ Multiple	¹⁷ Proposed Depth 5500'	¹⁸ Formation San Andres	¹⁹ Contractor	²⁰ Spud Date 4/15/2022
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
Existing Surface (8/21/1951)	17 1/2"	13 3/8"	48#	336'	350	0
Existing Intermediate (8/31/1951)	11'	8 5/8"	32#	3920'	2500	0

Casing/Cement Program: Additional Comments

Re-Enter Drill out CMT to 5500', Core & Log open hole and plug
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22. Proposed Blowout Prevention Program

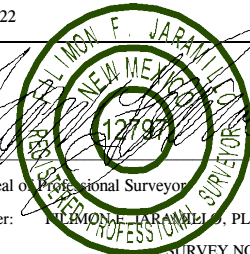
Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000	3000	

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that I have complied with 19.15.14.9 (A) NMAC <input type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input type="checkbox"/> , if applicable. Signature: <i>Deana Weaver</i>		OIL CONSERVATION DIVISION	
Printed name: Deana Weaver		Approved By:	
Title: Regulatory Tech II		Title:	
E-mail Address: dweaver@mec.com		Approved Date:	Expiration Date:
Date: 3/29/2022	Phone: 575-748-1288	Conditions of Approval Attached	

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

17 OPERATOR CERTIFICATION	
<i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i>	
<p style="font-size: 1.2em; font-family: cursive;">Deana Weaver</p>	<p style="font-size: 1.2em;">3/29/22</p>
Signature	Date
<p style="font-size: 1.2em;">Deana Weaver</p>	
Printed Name	
<p style="font-size: 1.2em;">dweaver@mec.com</p>	
E-mail Address	

18 SURVEYOR CERTIFICATION	
<i>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.</i>	
<p>MARCH 21, 2022</p>	
Date of Survey	
<div style="text-align: center;">  </div>	
Signature and Seal of Professional Surveyor	
Certificate Number: PAUL MONROE JARMAN, PLS 12797 SURVEY NO. 9339	

Intent ☒ ☒ As Drilled ☐

API #		
Operator Name: MACK ENERGY CORPORATION	Property Name: SANDHILL STATE	Well Number 1

Kick Off Point (KOP)

UL N	Section 31	Township 24S	Range 32E	Lot	Feet 658.9	From N/S SOUTH	Feet 2163.6	From E/W WEST	County LEA
Latitude 33.0556271					Longitude 103.7594166				NAD 83

First Take Point (FTP)

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

Last Take Point (LTP)

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

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

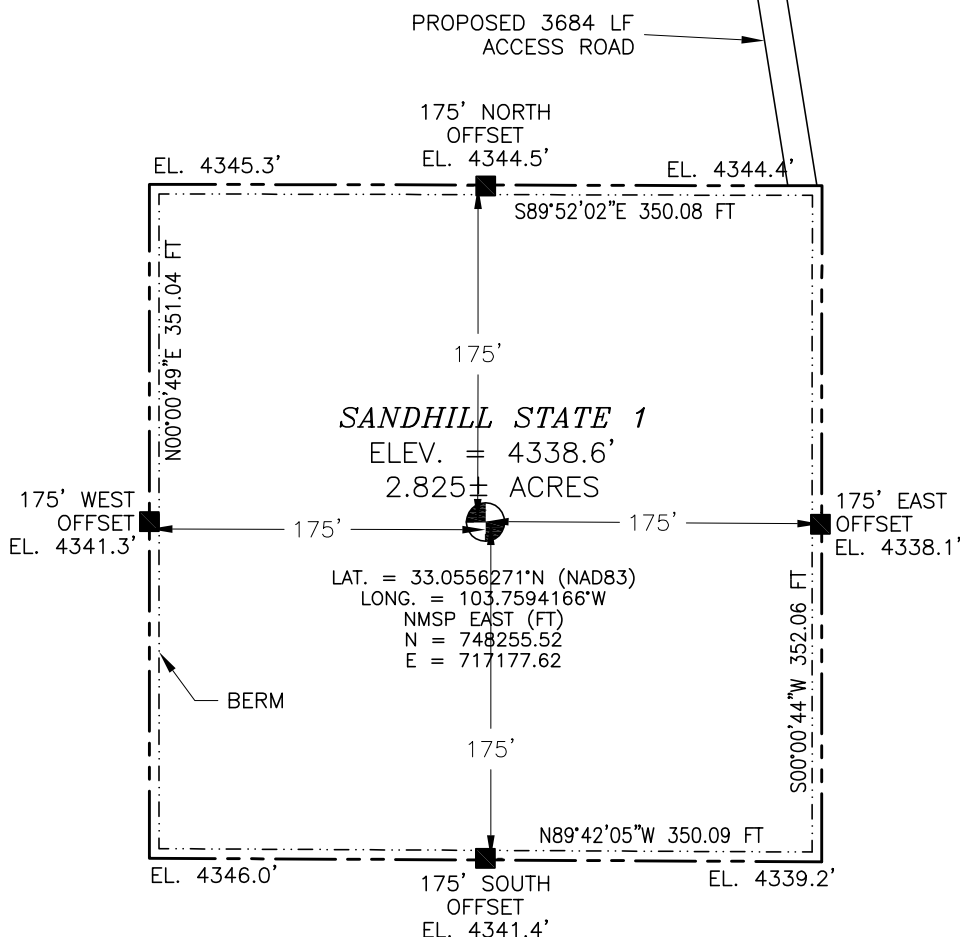
If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

SECTION 31, TOWNSHIP 14 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
SITE MAP

NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE



010 50 100 200
SCALE 1" = 100'

DIRECTIONS TO LOCATION

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', GO SOUTH APPROX. 490' TO NORTHEAST PAD CORNER FOR THIS LOCATION.

I, FILMON F. JARAMILLO, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEYING TOOL WAS CALIBRATED TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAN MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

FILMON F. JARAMILLO, PLS. 1279

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

MACK ENERGY CORPORATION
SANDHILL STATE 1

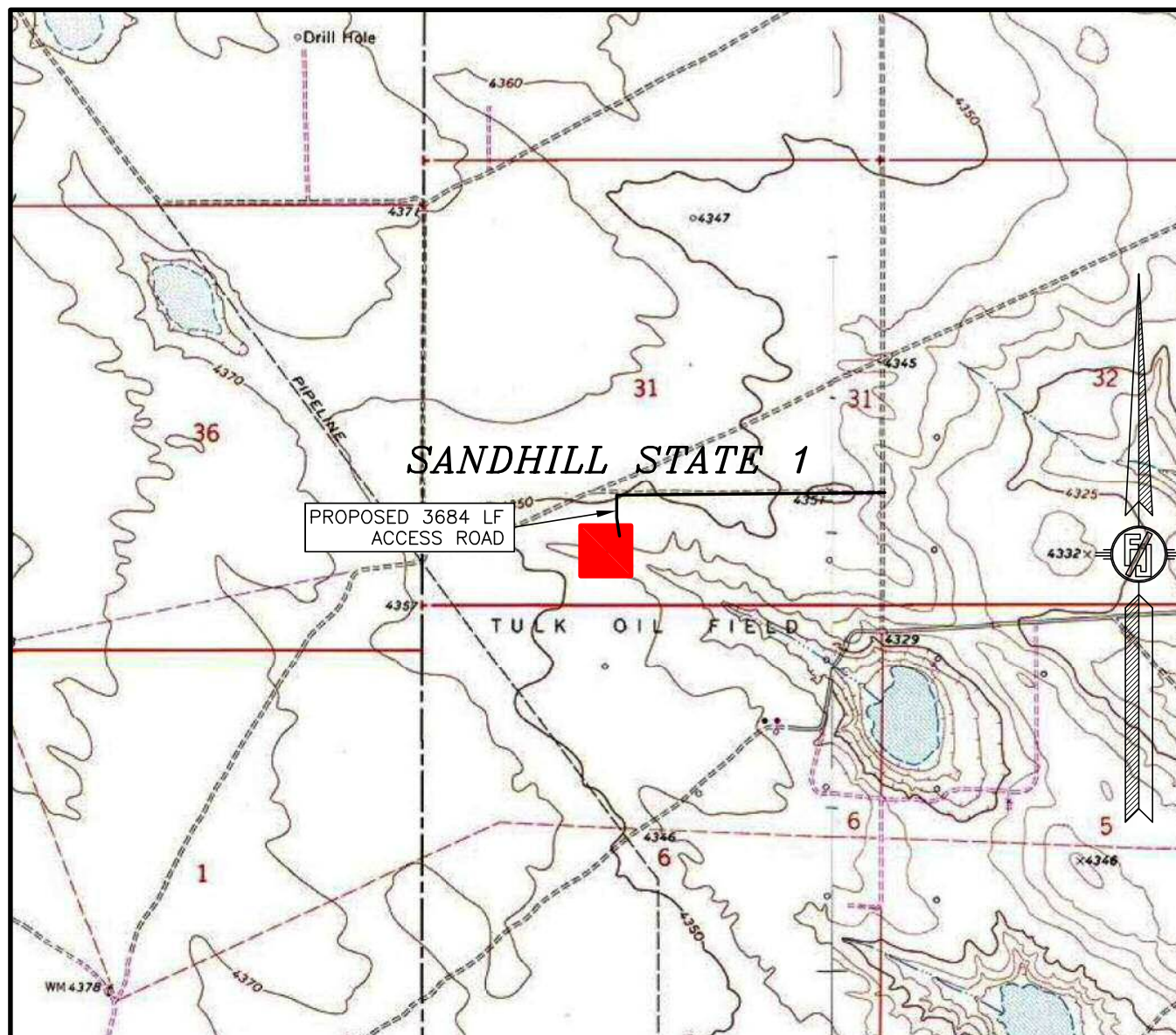
LOCATED 658.9 FT. FROM THE SOUTH LINE
AND 2163.6 FT. FROM THE WEST LINE OF
SECTION 31, TOWNSHIP 14 SOUTH,
RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

MARCH 21, 2022

SURVEY NO. 9339

CARLSBAD, NEW MEXICO

SECTION 31, TOWNSHIP 14 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
CEDAR POINT SE

NOT TO SCALE

MACK ENERGY CORPORATION
SANDHILL STATE 1
LOCATED 658.9 FT. FROM THE SOUTH LINE
AND 2163.6 FT. FROM THE WEST LINE OF
SECTION 31, TOWNSHIP 14 SOUTH,
RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

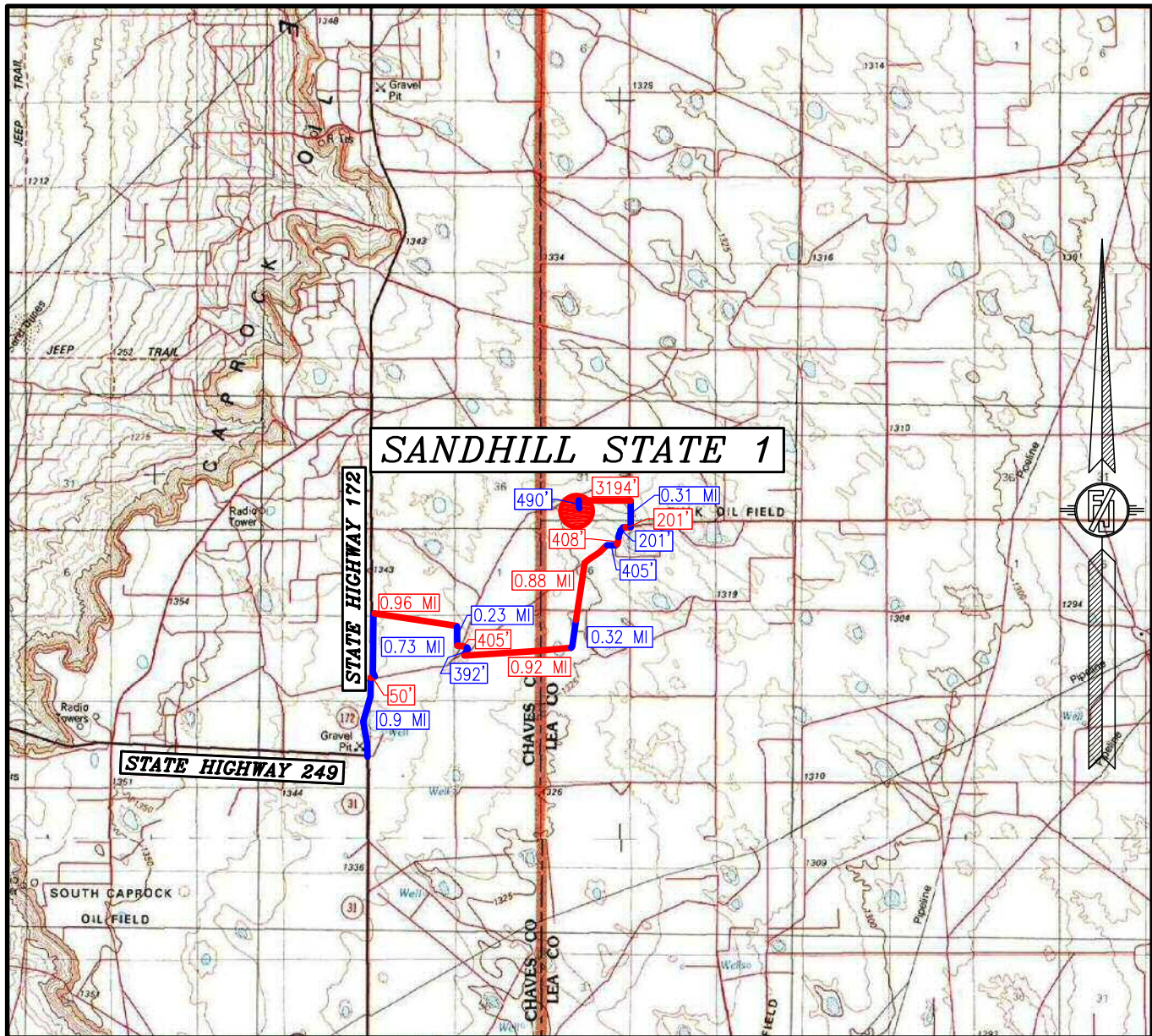
MARCH 21, 2022

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

SURVEY NO. 9339
CARLSBAD, NEW MEXICO

SECTION 31, TOWNSHIP 14 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

MACK ENERGY CORPORATION
SANDHILL STATE 1

LOCATED 658.9 FT. FROM THE SOUTH LINE
AND 2163.6 FT. FROM THE WEST LINE OF
SECTION 31, TOWNSHIP 14 SOUTH,
RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

MARCH 21, 2022

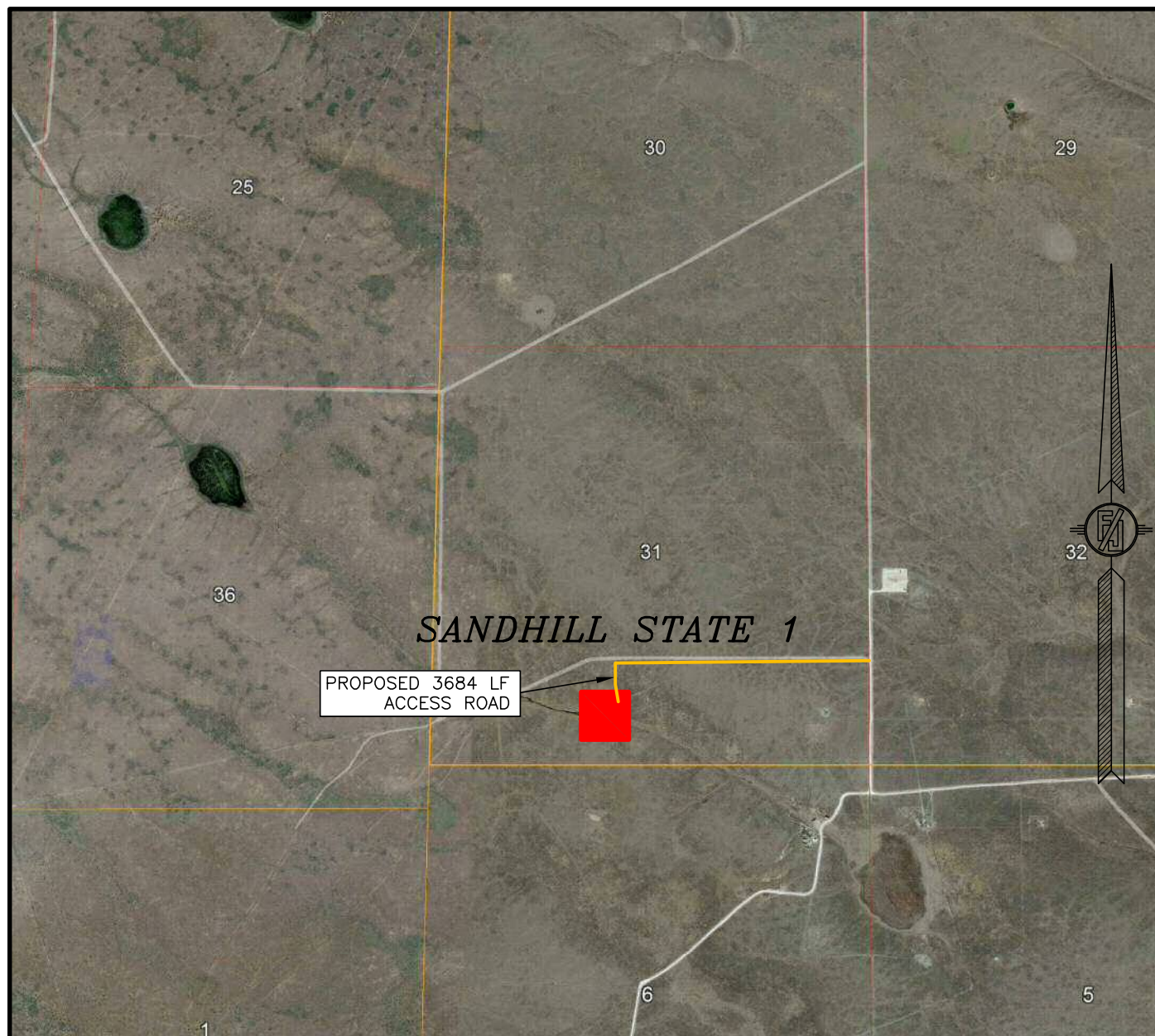
SURVEY NO. 9339

MADRON SURVEYING, INC. 301 SOUTH CANAL

(575) 234-3341

CARLSBAD, NEW MEXICO

SECTION 31, TOWNSHIP 14 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
JUNE 2019

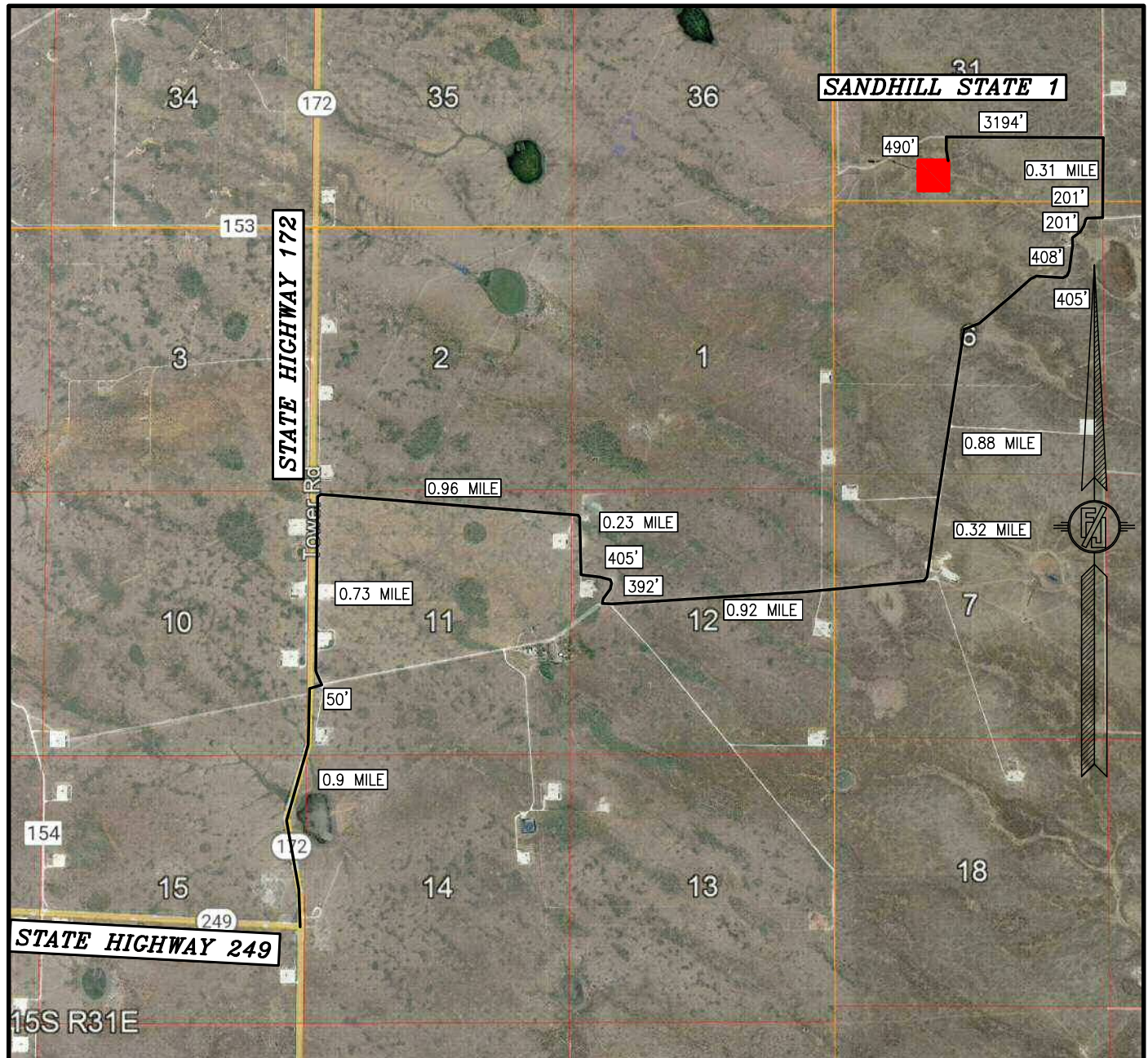
MACK ENERGY CORPORATION
SANDHILL STATE 1
LOCATED 658.9 FT. FROM THE SOUTH LINE
AND 2163.6 FT. FROM THE WEST LINE OF
SECTION 31, TOWNSHIP 14 SOUTH,
RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

MARCH 21, 2022

SURVEY NO. 9339

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

SECTION 31, TOWNSHIP 14 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
ACCESS AERIAL ROUTE MAP



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
JUNE 2019

MACK ENERGY CORPORATION
SANDHILL STATE 1
LOCATED 658.9 FT. FROM THE SOUTH LINE
AND 2163.6 FT. FROM THE WEST LINE OF
SECTION 31, TOWNSHIP 14 SOUTH,
RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

MARCH 21, 2022

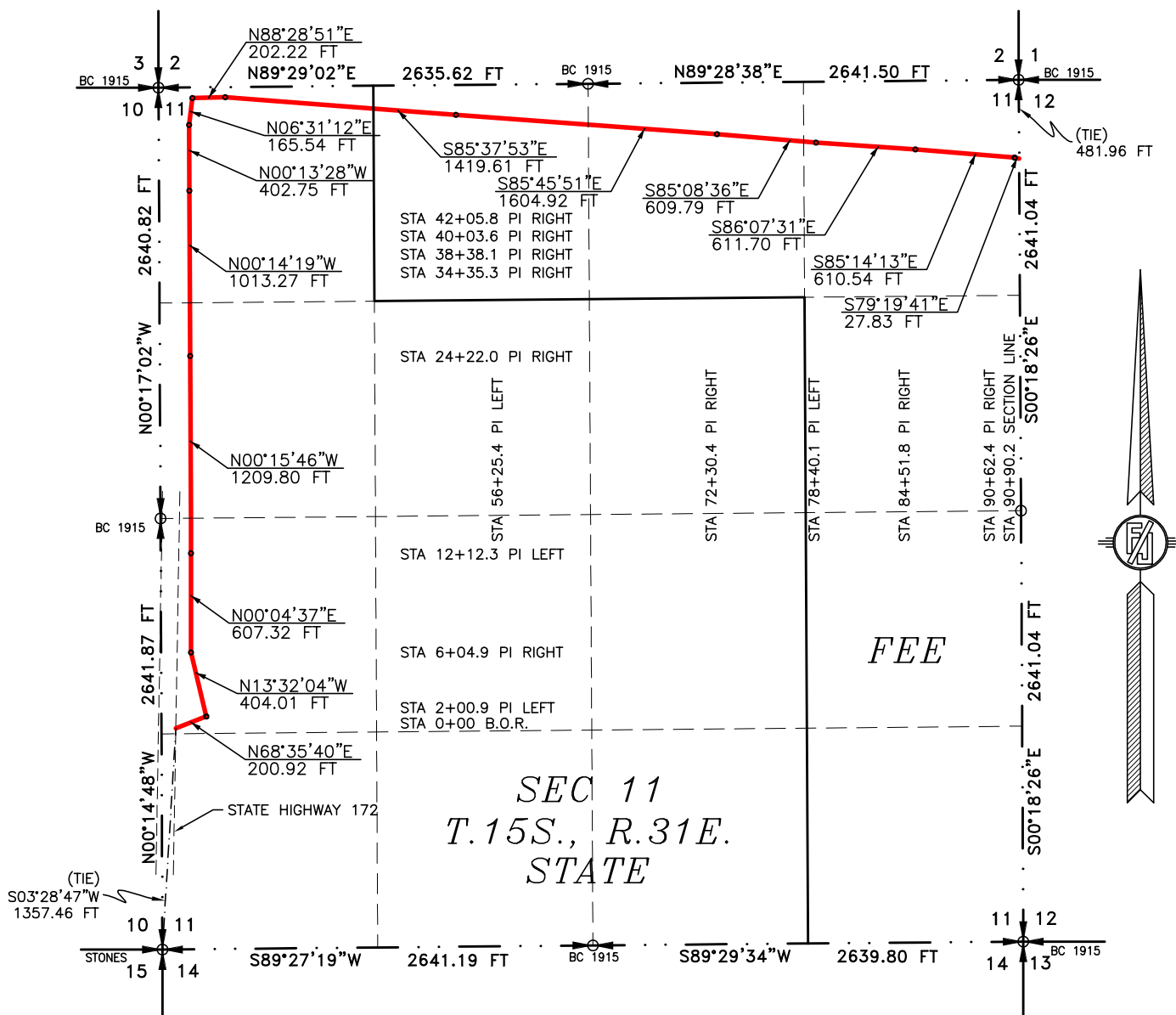
MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

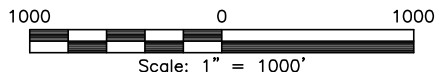
SURVEY NO. 9339
CARLSBAD, NEW MEXICO

ACCESS ROAD PLAT
ACCESS ROAD TO SANDHILL STATE 1

MACK ENERGY CORPORATION
CENTERLINE SURVEY OF A PIPELINE CROSSING
SECTION 11, TOWNSHIP 15 SOUTH, RANGE 31 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO
MARCH 21, 2022



SEE NEXT SHEET (2-14) 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: 1-14

MADRON SURVEYING, INC.

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 23RD DAY OF MARCH 2022

FILIMON F. JARAMILLO PL 12797

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

SURVEY NO. 9339

ACCESS ROAD PLAT
ACCESS ROAD TO SANDHILL STATE 1

MACK ENERGY CORPORATION
CENTERLINE SURVEY OF A PIPELINE CROSSING
SECTION 11, TOWNSHIP 15 SOUTH, RANGE 31 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO
MARCH 21, 2022

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING STATE OF NEW MEXICO AND FEE LAND IN SECTION 11, TOWNSHIP 15 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 NW/4 SW/4 OF SAID SECTION 11, TOWNSHIP 15 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE SOUTHWEST CORNER OF SAID SECTION 11, TOWNSHIP 15 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS S03°28'47"W, A DISTANCE OF 1357.46 FEET;
THENCE N68°35'40"E A DISTANCE OF 200.92 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N13°32'04"W A DISTANCE OF 404.01 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N00°04'37"E A DISTANCE OF 607.32 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N00°15'46"W A DISTANCE OF 1209.80 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N00°14'19"W A DISTANCE OF 1013.27 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N00°13'28"W A DISTANCE OF 402.75 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N06°31'12"E A DISTANCE OF 165.54 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N88°28'51"E A DISTANCE OF 202.22 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S85°37'53"E A DISTANCE OF 1419.61 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S85°45'51"E A DISTANCE OF 1604.92 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S85°08'36"E A DISTANCE OF 609.79 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S86°07'31"E A DISTANCE OF 611.70 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S85°14'13"E A DISTANCE OF 610.54 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S79°19'41"E A DISTANCE OF 27.83 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHEAST CORNER OF SAID SECTION 11, TOWNSHIP 15 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N00°18'26"W, A DISTANCE OF 481.96 FEET;

SAID STRIP OF LAND BEING 9090.22 FEET OR 550.93 RODS IN LENGTH, CONTAINING 6.261 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 SW/4	1427.39 L.F.	86.51 RODS	0.983 ACRES	STATE
SW/4 NW/4	1320.42 L.F.	80.03 RODS	0.909 ACRES	STATE
NW/4 NW/4	2369.36 L.F.	143.60 RODS	1.632 ACRES	STATE
NE/4 NW/4	1322.16 L.F.	80.13 RODS	0.911 ACRES	FEE
NW/4 NE/4	1325.37 L.F.	80.33 RODS	0.913 ACRES	FEE
NE/4 NE/4	1325.52 L.F.	80.33 RODS	0.913 ACRES	FEE

GENERAL NOTES

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

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

SURVEYOR CERTIFICATE

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

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 23RD DAY OF MARCH 2022


FILIMON F. JARAMILLO PL 12797

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

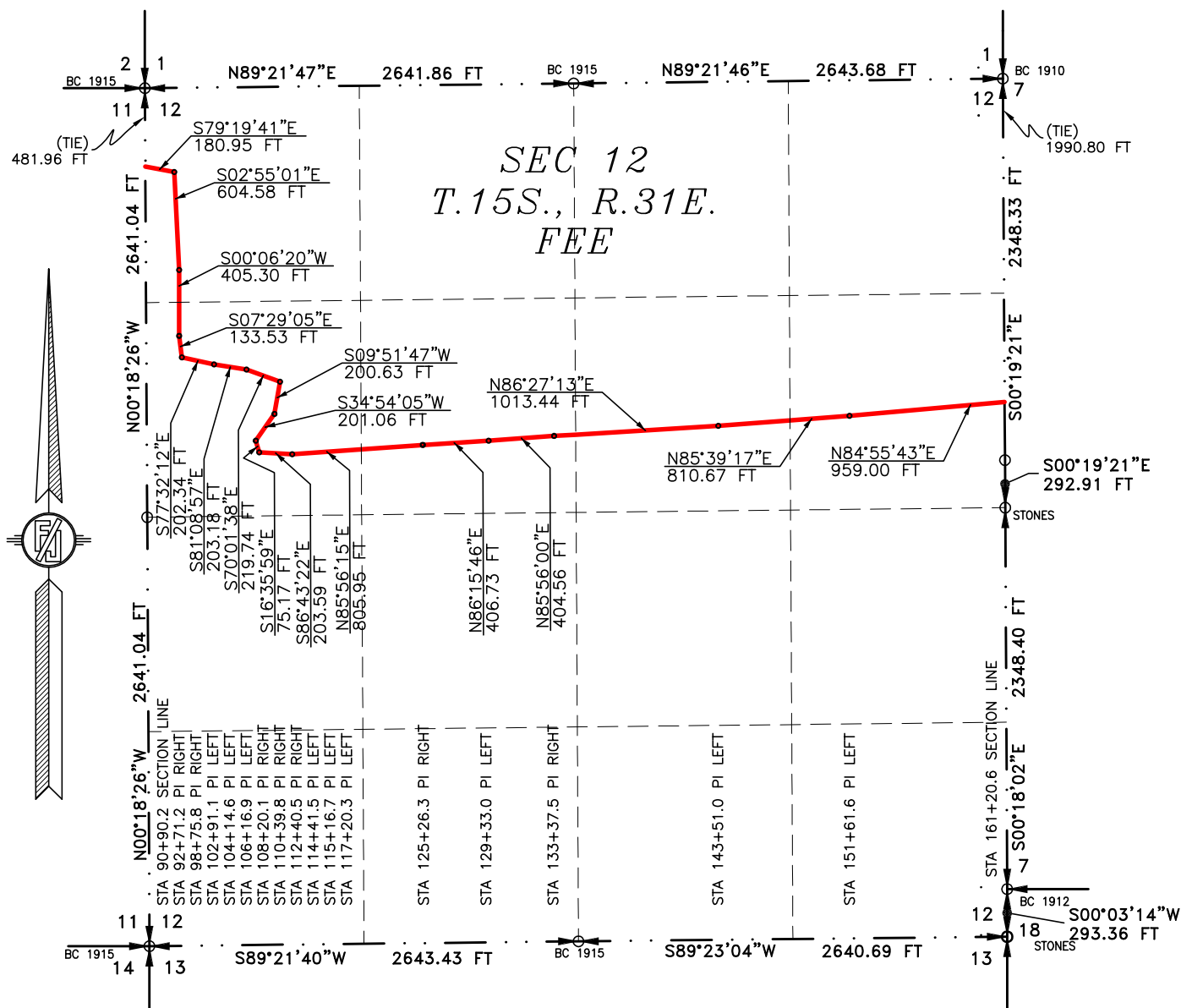
SURVEY NO. 9339

SHEET: 2-14

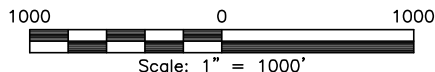
MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO (575) 234-3341

ACCESS ROAD PLAT
ACCESS ROAD TO SANDHILL STATE 1

MACK ENERGY CORPORATION
CENTERLINE SURVEY OF A PIPELINE CROSSING
SECTION 12, TOWNSHIP 15 SOUTH, RANGE 31 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO
MARCH 21, 2022



SEE NEXT SHEET (4-14) FOR DESCRIPTION



GENERAL NOTES

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

SHEET: 3-14

MADRON SURVEYING, INC.

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 23RD DAY OF MARCH 2022

FILIMON F. JARAMILLO, PLS. 12797
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
(575) 234-3341

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

SURVEY NO. 9339

ACCESS ROAD PLAT
ACCESS ROAD TO SANDHILL STATE 1

MACK ENERGY CORPORATION
CENTERLINE SURVEY OF A PIPELINE CROSSING
SECTION 12, TOWNSHIP 15 SOUTH, RANGE 31 EAST, N.M.P.M.
CHAVES COUNTY, STATE OF NEW MEXICO
MARCH 21, 2022

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING FEE LAND IN SECTION 12, TOWNSHIP 15 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 NW/4 NW/4 OF SAID SECTION 12, TOWNSHIP 15 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE NORTHWEST CORNER OF SAID SECTION 12, TOWNSHIP 15 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N00°18'26"W, A DISTANCE OF 481.96 FEET;

THENCE S79°19'41"E A DISTANCE OF 180.95 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S02°55'01"E A DISTANCE OF 604.58 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S00°06'20"W A DISTANCE OF 405.30 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S07°29'05"E A DISTANCE OF 133.53 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S77°32'12"E A DISTANCE OF 202.34 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S81°08'57"E A DISTANCE OF 203.18 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S70°01'38"E A DISTANCE OF 219.74 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S09°51'47"W A DISTANCE OF 200.63 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S34°54'05"W A DISTANCE OF 201.06 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S16°35'59"E A DISTANCE OF 75.17 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S86°43'22"E A DISTANCE OF 203.59 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N85°56'15"E A DISTANCE OF 805.95 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N86°15'46"E A DISTANCE OF 406.73 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N85°56'00"E A DISTANCE OF 404.56 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N86°27'13"E A DISTANCE OF 1013.44 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N85°39'17"E A DISTANCE OF 810.67 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N84°55'43"E A DISTANCE OF 959.00 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHEAST CORNER OF SAID SECTION 12, TOWNSHIP 15 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N00°19'21"W, A DISTANCE OF 1990.80 FEET;

SAID STRIP OF LAND BEING 7030.42 FEET OR 426.08 RODS IN LENGTH, CONTAINING 4.843 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 NW/4	984.51 L.F.	59.67 RODS	0.678 ACRES
SW/4 NW/4	2071.81 L.F.	125.56 RODS	1.427 ACRES
SE/4 NW/4	1323.84 L.F.	80.23 RODS	0.912 ACRES
SW/4 NE/4	1323.71 L.F.	80.22 RODS	0.912 ACRES
SE/4 NE/4	1326.55 L.F.	80.40 RODS	0.914 ACRES

GENERAL NOTES

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

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

SHEET: 4-14

MADRON SURVEYING, INC.

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 23RD DAY OF MARCH 2022

FILIMON F. JARAMILLO PLS. 12797

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

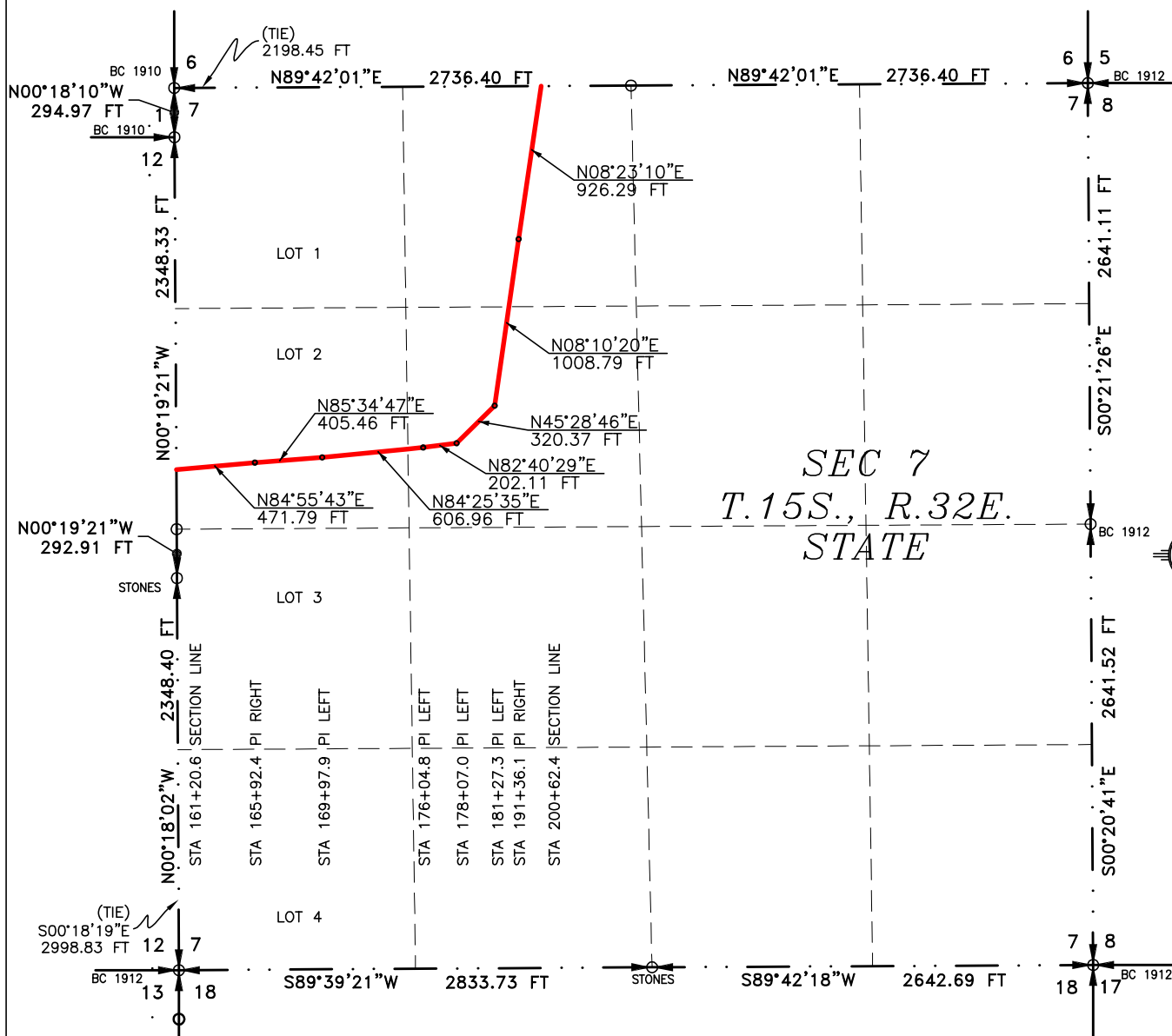
SURVEY NO. 9339

301 SOUTH CANAL
(575) 234-3341

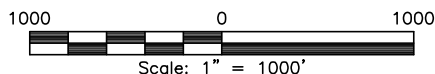
CARLSBAD, NEW MEXICO

ACCESS ROAD PLAT
ACCESS ROAD TO SANDHILL STATE 1

MACK ENERGY CORPORATION
CENTERLINE SURVEY OF A PIPELINE CROSSING
SECTION 7, TOWNSHIP 15 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
MARCH 21, 2022



SEE NEXT SHEET (6-14) 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: 5-14

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

SURVEYOR CERTIFICATE

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

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,
NEW MEXICO, THIS 23 DAY OF MARCH 2022

NEW MEXICO
12797
FILIMON F. SANCHEZ PLS 12797

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

SURVEY NO. 9339

ACCESS ROAD PLAT
ACCESS ROAD TO SANDHILL STATE 1

MACK ENERGY CORPORATION
CENTERLINE SURVEY OF A PIPELINE CROSSING
SECTION 7, TOWNSHIP 15 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
MARCH 21, 2022

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 7, TOWNSHIP 15 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 2 OF SAID SECTION 7, TOWNSHIP 15 SOUTH, RANGE 32 EAST, N.M.P.M., WHENCE THE SOUTHWEST CORNER OF SAID SECTION 7, TOWNSHIP 15 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS S00°18'19"E, A DISTANCE OF 2998.83 FEET; THENCE N84°55'43"E A DISTANCE OF 471.79 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N85°34'47"E A DISTANCE OF 405.46 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N84°25'35"E A DISTANCE OF 606.96 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N82°40'29"E A DISTANCE OF 202.11 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N45°28'46"E A DISTANCE OF 320.37 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N08°10'20"E A DISTANCE OF 1008.79 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N08°23'10"E A DISTANCE OF 926.29 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHWEST CORNER OF SAID SECTION 7, TOWNSHIP 15 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS S89°42'01"W, A DISTANCE OF 2198.45 FEET;

SAID STRIP OF LAND BEING 3941.77 FEET OR 238.90 RODS IN LENGTH, CONTAINING 2.714 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

LOT 2	1392.70 L.F.	84.41 RODS	0.959 ACRES
SE/4 NW/4	1212.72 L.F.	73.50 RODS	0.835 ACRES
NE/4 NW/4	1336.35 L.F.	80.99 RODS	0.920 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: 6-14

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

SURVEYOR CERTIFICATE

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

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 23RD DAY OF MARCH 2022


FILIMON F. JARAMILLO PLS 12797

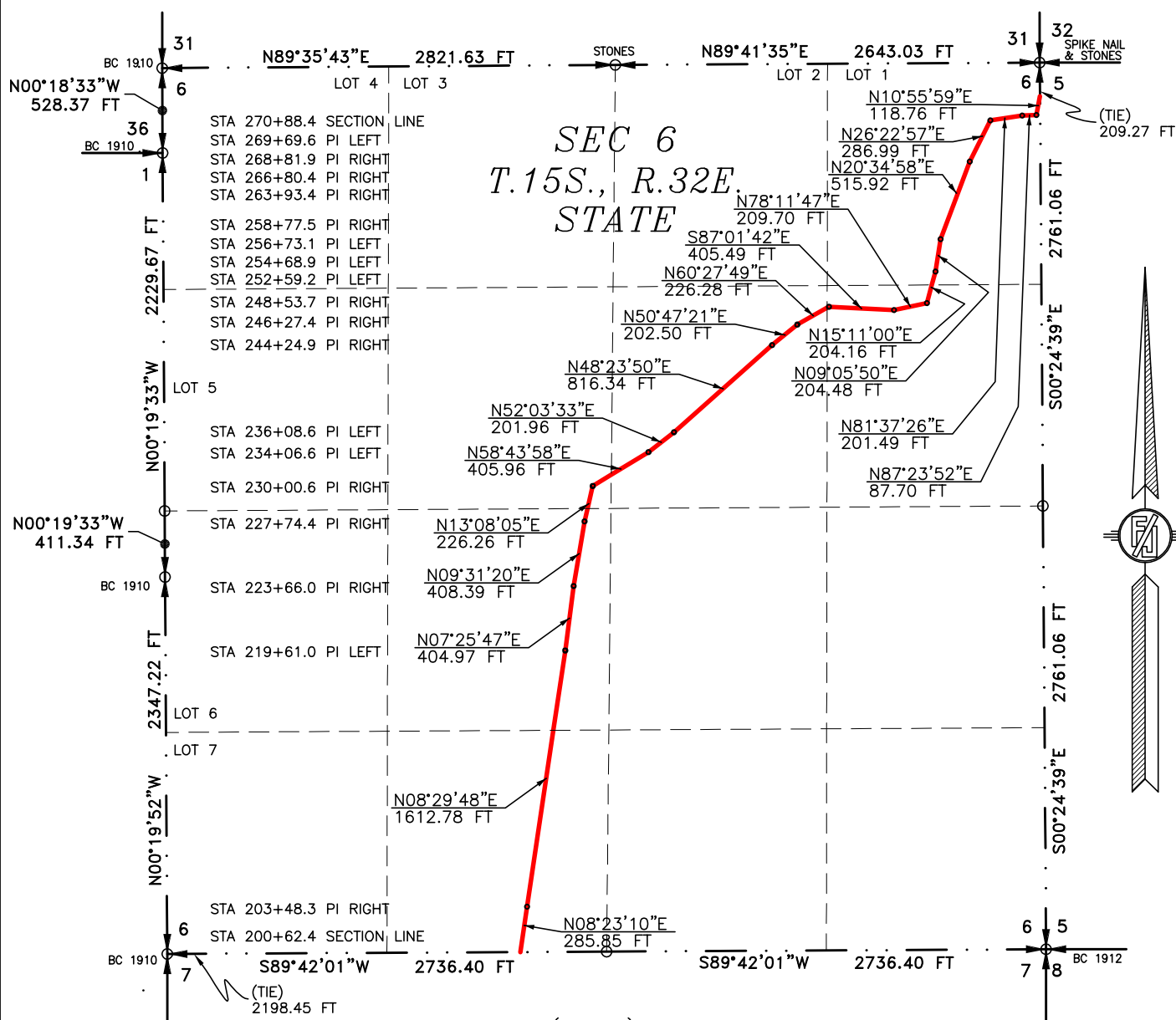
MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

SURVEY NO. 9339

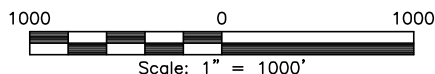
ACCESS ROAD PLAT

ACCESS ROAD TO SANDHILL STATE 1

MACK ENERGY CORPORATION
CENTERLINE SURVEY OF A PIPELINE CROSSING
SECTION 6, TOWNSHIP 15 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
MARCH 21, 2022



SEE NEXT SHEET (8-14) 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: 7-14

MADRON SURVEYING, INC.

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, 23 JAR 2022

FILIMON F. JARAMILLO PLS. 12797
 301 SOUTH CANAL
 (575) 234-3341

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

SURVEY NO. 9339

ACCESS ROAD PLAT
ACCESS ROAD TO SANDHILL STATE 1

MACK ENERGY CORPORATION
CENTERLINE SURVEY OF A PIPELINE CROSSING
SECTION 6, TOWNSHIP 15 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
MARCH 21, 2022

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 6, TOWNSHIP 15 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 THE SE/4 SW/4 OF SAID SECTION 6, TOWNSHIP 15 SOUTH, RANGE 32 EAST, N.M.P.M., WHENCE THE SOUTHWEST CORNER OF SAID SECTION 6, TOWNSHIP 15 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS S89°42'01"W, A DISTANCE OF 2198.45 FEET;
THENCE N08°23'10"E A DISTANCE OF 285.85 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N08°29'48"E A DISTANCE OF 1612.78 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N07°25'47"E A DISTANCE OF 404.97 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N09°31'20"E A DISTANCE OF 408.39 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N13°08'05"E A DISTANCE OF 226.26 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N58°43'58"E A DISTANCE OF 405.96 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N52°03'33"E A DISTANCE OF 201.96 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N48°23'50"E A DISTANCE OF 816.34 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N50°47'21"E A DISTANCE OF 202.50 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N60°27'49"E A DISTANCE OF 226.28 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S87°01'42"E A DISTANCE OF 405.49 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N78°11'47"E A DISTANCE OF 209.70 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N15°11'00"E A DISTANCE OF 204.16 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N09°05'50"E A DISTANCE OF 204.48 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N20°34'58"E A DISTANCE OF 515.92 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N26°22'57"E A DISTANCE OF 286.99 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N81°37'26"E A DISTANCE OF 201.49 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N87°23'52"E A DISTANCE OF 87.70 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N10°55'59"E A DISTANCE OF 118.76 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHEAST CORNER OF SAID SECTION 6, TOWNSHIP 15 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS N00°24'39"W, A DISTANCE OF 209.27 FEET;

SAID STRIP OF LAND BEING 7025.98 FEET OR 425.82 RODS IN LENGTH, CONTAINING 4.839 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SE/4 SW/4	1396.17 L.F.	84.62 RODS	0.962 ACRES
NE/4 SW/4	1397.75 L.F.	84.71 RODS	0.963 ACRES
SE/4 NW/4	279.49 L.F.	16.94 RODS	0.192 ACRES
SW/4 NE/4	1705.75 L.F.	103.38 RODS	1.175 ACRES
SE/4 NE/4	745.10 L.F.	45.16 RODS	0.513 ACRES
LOT 1	1501.72 L.F.	91.01 RODS	1.034 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 23 DAY OF MARCH 2022



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

GENERAL NOTES

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

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

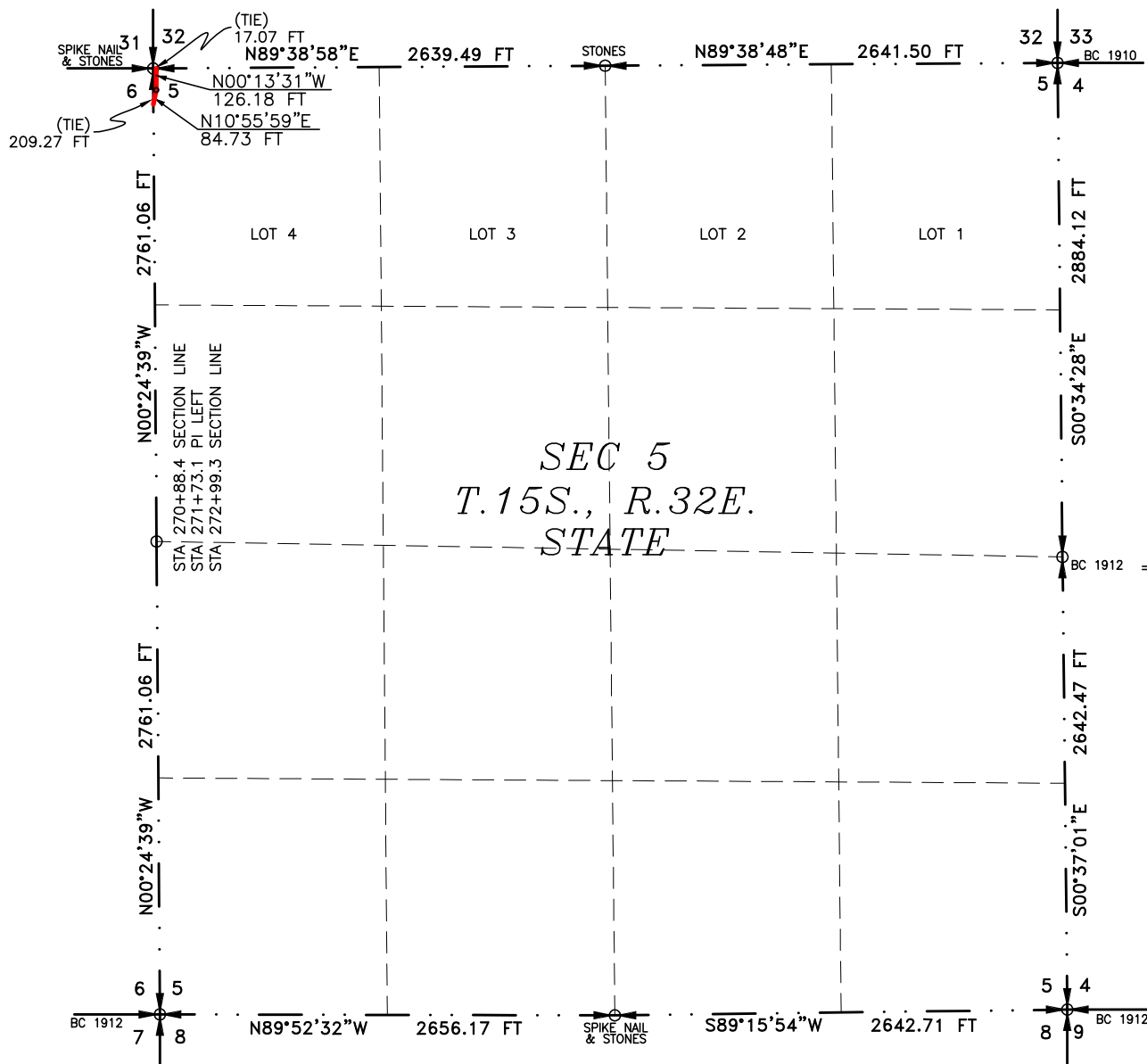
SHEET: 8-14

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

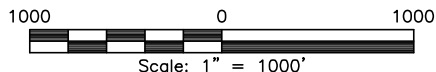
SURVEY NO. 9339

ACCESS ROAD PLAT
ACCESS ROAD TO SANDHILL STATE 1

MACK ENERGY CORPORATION
CENTERLINE SURVEY OF A PIPELINE CROSSING
SECTION 5, TOWNSHIP 15 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
MARCH 21, 2022



SEE NEXT SHEET (10-14) 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: 9-14

MADRON SURVEYING, INC.

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 23RD DAY OF MARCH 2022

FILIMON F. JARAMILLO PLS. 12797
 301 SOUTH CANAL
 CARLSBAD, NEW MEXICO 88220
 (575) 234-3341

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

SURVEY NO. 9339

ACCESS ROAD PLAT
ACCESS ROAD TO SANDHILL STATE 1

MACK ENERGY CORPORATION
CENTERLINE SURVEY OF A PIPELINE CROSSING
SECTION 5, TOWNSHIP 15 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
MARCH 21, 2022

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 5, TOWNSHIP 15 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 5, TOWNSHIP 15 SOUTH, RANGE 32 EAST, N.M.P.M., WHENCE THE NORTHWEST CORNER OF SAID SECTION 5, TOWNSHIP 15 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS N00°24'39"W, A DISTANCE OF 209.27 FEET; THENCE N10°55'59"E A DISTANCE OF 84.73 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N00°13'31"W A DISTANCE OF 126.18 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHWEST CORNER OF SAID SECTION 5, TOWNSHIP 15 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS S89°38'58"W, A DISTANCE OF 17.07 FEET;

SAID STRIP OF LAND BEING 210.91 FEET OR 12.78 RODS IN LENGTH, CONTAINING 0.145 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

LOT 4 210.91 L.F. 12.78 RODS 0.145 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 23RD DAY OF MARCH 2022

FILIMON F. JARAMILLO PLS 12797

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

SURVEY NO. 9339

GENERAL NOTES

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

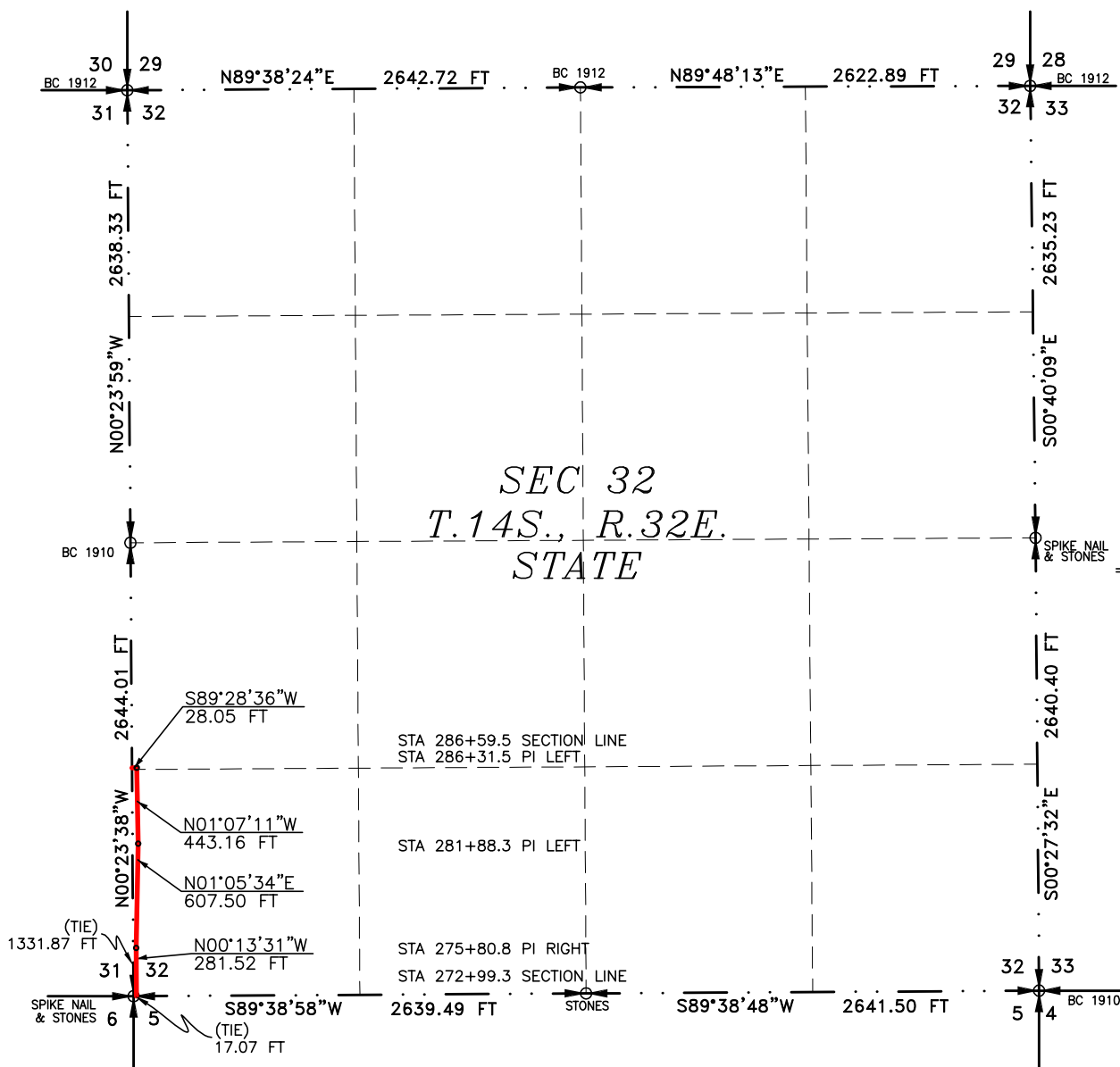
2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 10-14

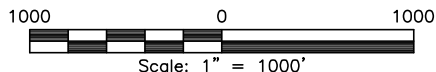
MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 234-3341

ACCESS ROAD PLAT
ACCESS ROAD TO SANDHILL STATE 1

MACK ENERGY CORPORATION
CENTERLINE SURVEY OF A PIPELINE CROSSING
SECTION 32, TOWNSHIP 14 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
MARCH 21, 2022



SEE NEXT SHEET (12-14) 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: 11-14

MADRON SURVEYING, INC.

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 23 DAY OF MARCH 2022

FILIMON F. JARAMILLO PLS. 12797
 301 SOUTH CANAL
 (575) 234-3341

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

SURVEY NO. 9339

CARLSBAD, NEW MEXICO

ACCESS ROAD PLAT
ACCESS ROAD TO SANDHILL STATE 1

MACK ENERGY CORPORATION
CENTERLINE SURVEY OF A PIPELINE CROSSING
SECTION 32, TOWNSHIP 14 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
MARCH 21, 2022

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 32, 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 THE SW/4 SW/4 OF SAID SECTION 32, TOWNSHIP 14 SOUTH, RANGE 32 EAST, N.M.P.M., WHENCE THE SOUTHWEST CORNER OF SAID SECTION 32, TOWNSHIP 14 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS S89°38'58"W, A DISTANCE OF 17.07 FEET;

THENCE N00°13'31"W A DISTANCE OF 281.52 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE N01°05'34"E A DISTANCE OF 607.50 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE N01°07'11"W A DISTANCE OF 443.16 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE S89°28'36"W A DISTANCE OF 28.05 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHWEST CORNER OF SAID SECTION 32, TOWNSHIP 14 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS S00°23'38"E, A DISTANCE OF 1331.87 FEET;

SAID STRIP OF LAND BEING 1360.23 FEET OR 82.44 RODS IN LENGTH, CONTAINING 0.937 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SW/4 SW/4	1322.23 L.F.	80.14 RODS	0.911 ACRES
NW/4 SW/4	38.00 L.F.	2.30 RODS	0.026 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: 12-14

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

SURVEYOR CERTIFICATE

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

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 23 DAY OF MARCH 2022

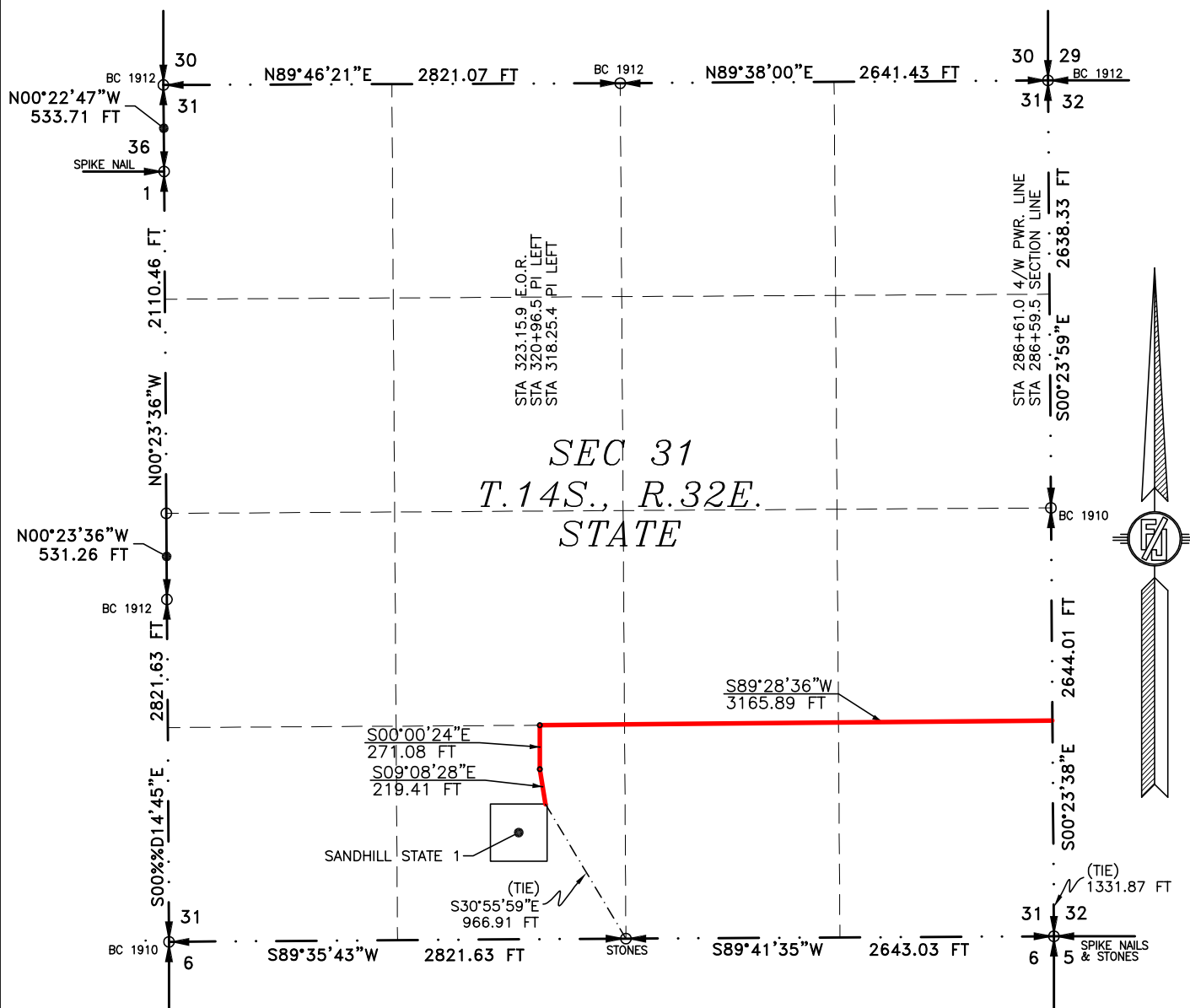

FILIMON F. JARAMILLO PLS. 12797

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

SURVEY NO. 9339

ACCESS ROAD PLAT
ACCESS ROAD TO SANDHILL STATE 1

MACK ENERGY CORPORATION
CENTERLINE SURVEY OF A PIPELINE CROSSING
SECTION 31, TOWNSHIP 14 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
MARCH 21, 2022



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: 13-14

MADRON SURVEYING, INC.

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 23RD DAY OF MARCH 2022

FILIMON F. JARAMILLO, PLS 12797

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

SURVEY NO. 9339

CARLSBAD, NEW MEXICO

ACCESS ROAD PLAT
ACCESS ROAD TO SANDHILL STATE 1

MACK ENERGY CORPORATION
CENTERLINE SURVEY OF A PIPELINE CROSSING
SECTION 31, TOWNSHIP 14 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
MARCH 21, 2022

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 31, 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 THE NE/4 SE/4 OF SAID SECTION 31, TOWNSHIP 14 SOUTH, RANGE 32 EAST, N.M.P.M., WHENCE THE SOUTHEAST CORNER OF SAID SECTION 31, TOWNSHIP 14 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS S00°23'38"E, A DISTANCE OF 1331.87 FEET;

THENCE S89°28'36"W A DISTANCE OF 3165.89 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE S00°00'24"E A DISTANCE OF 271.08 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE S09°08'28"E A DISTANCE OF 219.41 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTH QUARTER CORNER OF SAID SECTION 31, TOWNSHIP 14 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS S30°55'59"E, A DISTANCE OF 966.91 FEET;

SAID STRIP OF LAND BEING 3656.38 FEET OR 221.60 RODS IN LENGTH, CONTAINING 2.518 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NE/4 SE/4	1321.39 L.F.	80.08 RODS	0.910 ACRES
NW/4 SE/4	1321.32 L.F.	80.08 RODS	0.910 ACRES
NE/4 SW/4	523.84 L.F.	31.75 RODS	0.361 ACRES
SE/4 SW/4	489.83 L.F.	29.69 RODS	0.337 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: 14-14

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

SURVEYOR CERTIFICATE

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

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 23RD DAY OF MARCH 2022


FILIMON F. JARAMILLO, PLS. 12797

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

SURVEY NO. 9339

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description **Effective May 25, 2021**

I. Operator: Mack Energy Corporation **OGRID:** 013837 **Date:** 3 / 29 / 2022

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
Sandhill State 1	30-025-00331	N Sec 31 T14S R32E	658.9 FSL 2163.6 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
Sandhill State 1	30-025-00331	4/15/2022	4/20/2022	6/1/2022	6/1/2022	7/1/2022

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>Deana Weaver</i>
Printed Name:	Deana Weaver
Title:	Regulatory Technician II
E-mail Address:	dweaver@mec.com
Date:	3/29/2022
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.

Sandhill State #1
N-Sec. 31 T14S R32E
658.9 FSL 2163.6 FWL
Lea, NM

Formation Tops:
Rustler 1469'
Base Salt 2280'
Yates 2390'
Seven Rivers 2620'
Queen 3161'
Grayburg 3541'
San Andres 3810'
Glorieta 5432'

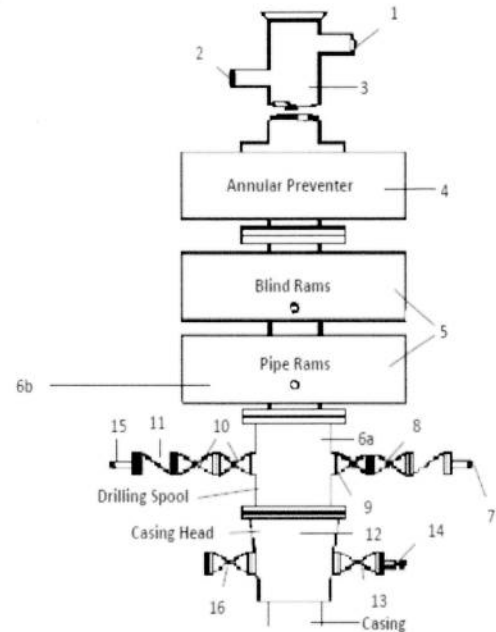
Mack Energy Corporation

Minimum Blowout Preventer Requirements

5000 psi Working Pressure
13 5/8 inch- 5 MWP
11 Inch - 5 MWP

Stack Requirements

NO.	Items	Min. I.D.	Min. Nominal
1	Flowline		2"
2	Fill up line		2"
3	Drilling nipple		
4	Annular preventer		
5	Two single or one dual hydraulically operated rams		
6a	Drilling spool with 2" min. kill line and 3" min choke line outlets		2" Choke
6b	2" min. kill line and 3" min. choke line outlets in ram. (Alternate to 6a above)		
7	Valve Gate Plug	3 1/8	
8	Gate valve-power operated	3 1/8	
9	Line to choke manifold		3"
10	Valve Gate Plug	2 1/16	
11	Check valve	2 1/16	
12	Casing head		
13	Valve Gate Plug	1 13/16	
14	Pressure gauge with needle valve		
15	Kill line to rig mud pump manifold		2"



OPTIONAL

16	Flanged Valve	1 13/16	
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CONTRACTOR'S OPTION TO FURNISH:

- All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 2000 psi minimum.
- Automatic accumulator (80 gallons, minimum) capable of closing BOP in 30 seconds or less and, holding them closed against full rated working pressure.
- BOP controls, to be located near drillers' position.
- Kelly equipped with Kelly cock.
- Inside blowout preventer or its equivalent on derrick floor at all times with proper threads to fit pipe being used.
- Kelly saver-sub equipped with rubber casing protector at all times.
- Plug type blowout preventer tester.
- Extra set pipe rams to fit drill pipe in use on location at all times.
- Type RX ring gaskets in place of Type R.

MEC TO FURNISH:

- Bradenhead or casing head and side valves.
- Wear bushing. If required.

GENERAL NOTES:

- Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- All connections, valves, fittings, piping, etc., subject to well or pump pressure must be flanged (suitable clamp connections acceptable) and have minimum working pressure equal to rated working pressure of preventers up through choke valves must be full opening and suitable for high pressure mud service.
- Controls to be of standard design and each marked, showing opening and closing position
- Chokes will be positioned so as not to hamper or delay changing of choke beans.

Replaceable parts for adjustable choke, or bean sizes, retainers, and choke wrenches to be conveniently located for immediate use.

- All valves to be equipped with hand-wheels or handles ready for immediate use.
- Choke lines must be suitably anchored.
- Handwheels and extensions to be connected and ready for use.
- Valves adjacent to drilling spool to be kept open. Use outside valves except for emergency.
- All seamless steel control piping (2000 psi working pressure) to have flexible joints to avoid stress. Hoses will be permitted.
- Casinghead connections shall not be used except in case of emergency.
- Does not use kill line for routine fill up operations.

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

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

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

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO.
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator Mack Energy Corporation		6. State Oil & Gas Lease No. VC-08590
3. Address of Operator P.O. Box 960 Artesia, NM 88210		7. Lease Name or Unit Agreement Name Sandhill State
4. Well Location Unit Letter <u>N</u> : <u>658.9</u> feet from the <u>South</u> line and <u>2163.6</u> feet from the <u>West</u> line Section <u>31</u> Township <u>14S</u> Range <u>32E</u> NMPM County <u>Lea, NM</u>		8. Well Number 1
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 4338.6' GR		9. OGRID Number 013837
		10. Pool name or Wildcat Round Tank; San Andres

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input checked="" type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

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

- Spot 25sx cmt @ 5,500-5,400'. WOC & Tag
 - Spot 25sx cmt @ 4,450-4,300'. WOC & Tag
 - Spot 25sx cmt @ 3,970-3,870'. WOC & Tag
 - Spot 25sx cmt @ 380-280. WOC & Tag
 - Spot 10sx cmt @ Surface.
- Cut off well head, verify cmt @ surface, weld on Dry Hole Marker

Spud Date:

Rig Release Date:

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

SIGNATURE Deana Weaver TITLE Regulatory Tech II DATE 3/29/2022

Type or print name Deana Weaver E-mail address: dweaver@mec.com PHONE: 575-748-1288

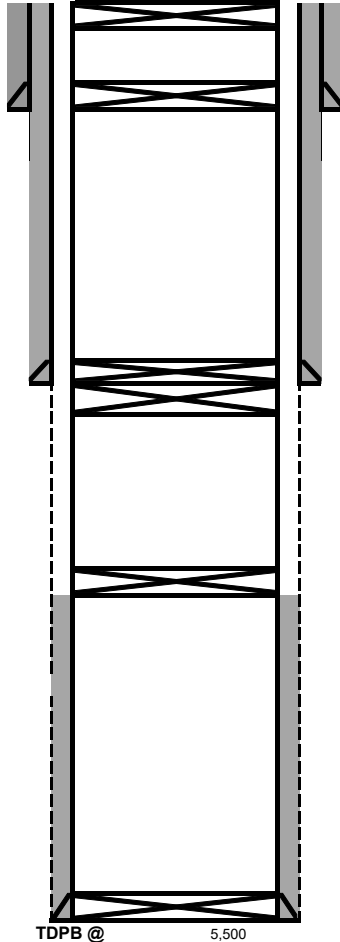
For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

Mack Energy Corporation			
Author: _____			
Well Name	Sandhill State	Well No.	#1
Field/Pool		API #:	30-025-00331
County	Lea	Location:	660FSL&1980 FWL
State	NM		Sec 31-T14s-R32e
Spud Date		GL:	

Description	O.D.	Grade	Weight	Depth	Hole	Cmt Sx	TOC
Surface Csg	13 3/8		48	322	17 1/2	350	
Inter Csg	8 5/8		32	3,920	11	2,500	
Prod Csg							



13 3/8 48 CSG @ 322

8 5/8 32 CSG @ 3,920

25

0 0 CSG @ 0

Formation	Top
Rustler	1469
Base Salt	2,280
Yates	2,390
Seven Rivers	2,620
Queen	3,161
Grayburg	3,541
San Andreas	3,810
Glorieta	5,432
PBTD	5,500

Plug #1 5,500' - 5,400' = 25 sacks

Plug #2 4,450' - 4,300' = 25 sacks

Plug #3 3,970' - 3,870' = 25 sacks

Plug #4 380' - 280' = 25 Sacks

Plug #5 10 sacks at surface

District I
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District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 93820

CONDITIONS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 93820
	Action Type: [C-101] Drilling Non-Federal/Indian (APD)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	4/14/2022