

Santa Fe Main Office
Phone: (505) 476-3441 Fax: (55) 476-3462
General Information
Phone: (505) 629-6116

State of New Mexico
Energy Minerals and Natural Resources

Form C-101
Revised July 18, 2013

Oil Conservation Division

☐ AMENDED REPORT

Online Phone Directory Visit:

<https://www.emnrd.nm.gov/ocd/contact-us/>

1220 South St. Francis Dr.

Santa Fe, NM 87505

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 30-015-10561	
⁴ Property Code Hatch State	⁵ Property Name		⁶ Well No. 1

7. Surface Location

UL - Lot O	Section 36	Township 18S	Range 25E	Lot Idn	Feet from 990	N/S Line South	Feet From 2000	E/W Line East	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot O	Section 36	Township 18S	Range 25E	Lot Idn	Feet from 990	N/S Line South	Feet From 2000	E/W Line East	County Eddy
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9. Pool Information

Pool Name Wildcat 122223G; Canyon	Pool Code 96787
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Additional Well Information

¹¹ Work Type Re-Entry	¹² Well Type Oil	¹³ Cable/Rotary	¹⁴ Lease Type State	¹⁵ Ground Level Elevation 3495.9'
¹⁶ Multiple	¹⁷ Proposed Depth 8,300'	¹⁸ Formation Canyon	¹⁹ Contractor	²⁰ Spud Date 1/1/2025
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

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

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	12 1/4"	9 5/8"	36#	1,300'	425sx	Circ to Surface
Production	7 7/8"			1,300-9,300'	Open Hole	

Casing/Cement Program: Additional Comments

Drill out cement plugs @ Surface, 618-716', 1264-1365', 4341-4444', 7694-7794' and clean out well to 8,300'. Log, Sidewall core & P&A.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	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 ☒ and/or 19.15.14.9 (B) NMAC ☐, if applicable.

Signature:

Deana Weaver

Printed name: Deana Weaver

Title: Regulatory Tech II

E-mail Address: dweaver@mec.com

Date: 9/6/2024

Phone: 575-748-1288

OIL CONSERVATION DIVISION

Approved By:

Title:

Approved Date:

Expiration Date:

Conditions of Approval Attached

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	<input checked="" type="checkbox"/> Initial Submittal
			<input type="checkbox"/> Amended Report
			<input type="checkbox"/> As Drilled

WELL LOCATION INFORMATION

API Number 30-015-10561	Pool Code 96787	Pool Name Wildcat 122223G; Canyon
Property Code	Property Name HATCH STATE	Well Number 1
OGRID No. 13837	Operator Name MACK ENERGY CORPORATION	Ground Level Elevation 3495.9
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal

Surface Location

UL O	Section 36	Township 18 S	Range 25 E	Lot	Ft. from N/S 990 SOUTH	Ft. from E/W 2000 EAST	Latitude 32.6997405°N	Longitude 104.4360960°W	County EDDY
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Bottom Hole Location

UL O	Section 36	Township 18 S	Range 25 E	Lot	Ft. from N/S 990 SOUTH	Ft. from E/W 2000 EAST	Latitude 32.6997405°N	Longitude 104.4360960°W	County EDDY
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Dedicated Acres 40	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
Order Numbers.			Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input type="checkbox"/> No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
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First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
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Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
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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.

Deana Weaver

9/6/2024

Signature

Date

Deana Weaver

Printed Name

dweaver@mec.com

Email Address

SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.



Signature and Seal of Professional Surveyor

FILIMON F. JARAMILLO

Certificate Number

PLS 12797

Date of Survey

JUNE 14, 2024

SURVEY NO. 10186

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.

HATCH STATE 1

EL. = 3495.9

GEODETIC COORDINATES

NAD 83 NMSP EAST

SURFACE LOCATION

N.= 618312.21

E.= 509726.59

LAT. = 32.6997405°N

LONG. = 104.4360960°W

BOTTOM OF HOLE

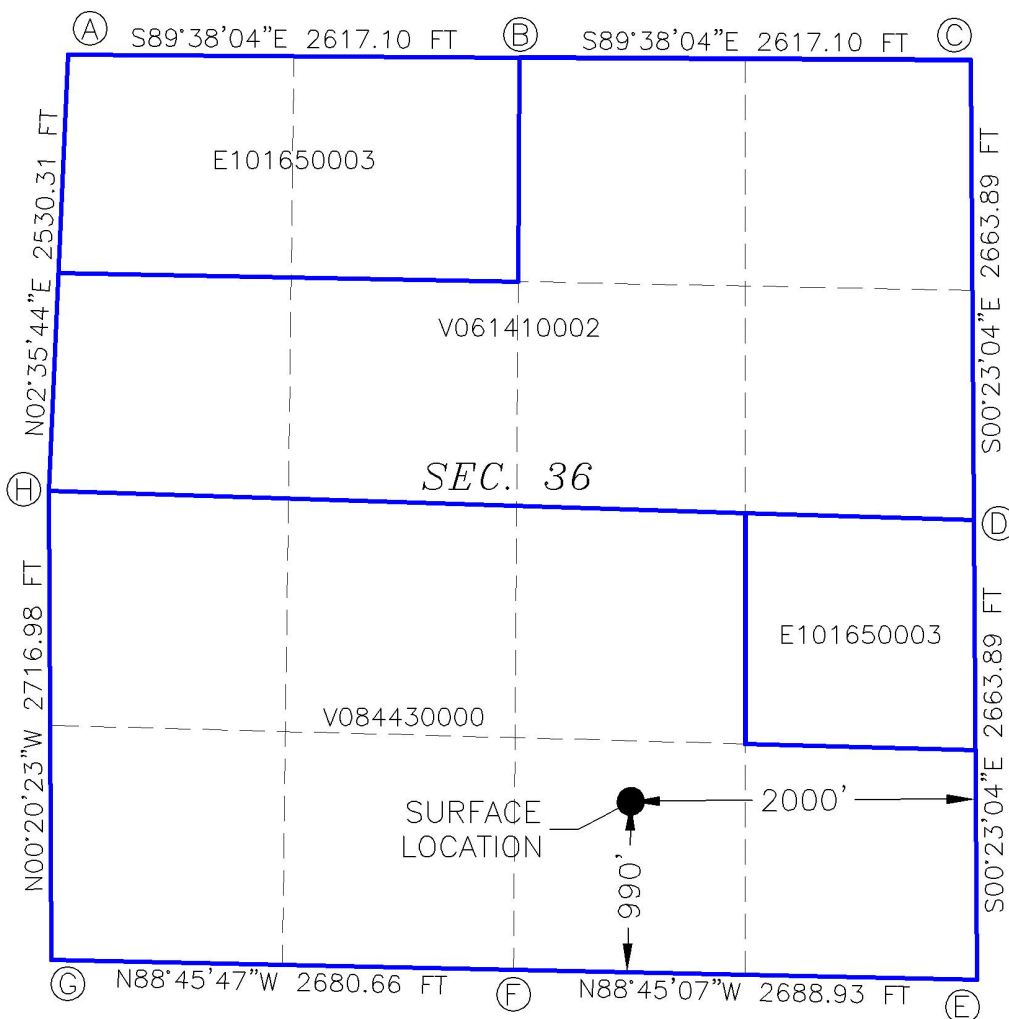
990' FSL, 2000' FEL

N.= 618312.21

E.= 509726.59

LAT. = 32.6997405°N

LONG. = 104.4360960°W



CORNER COORDINATES TABLE

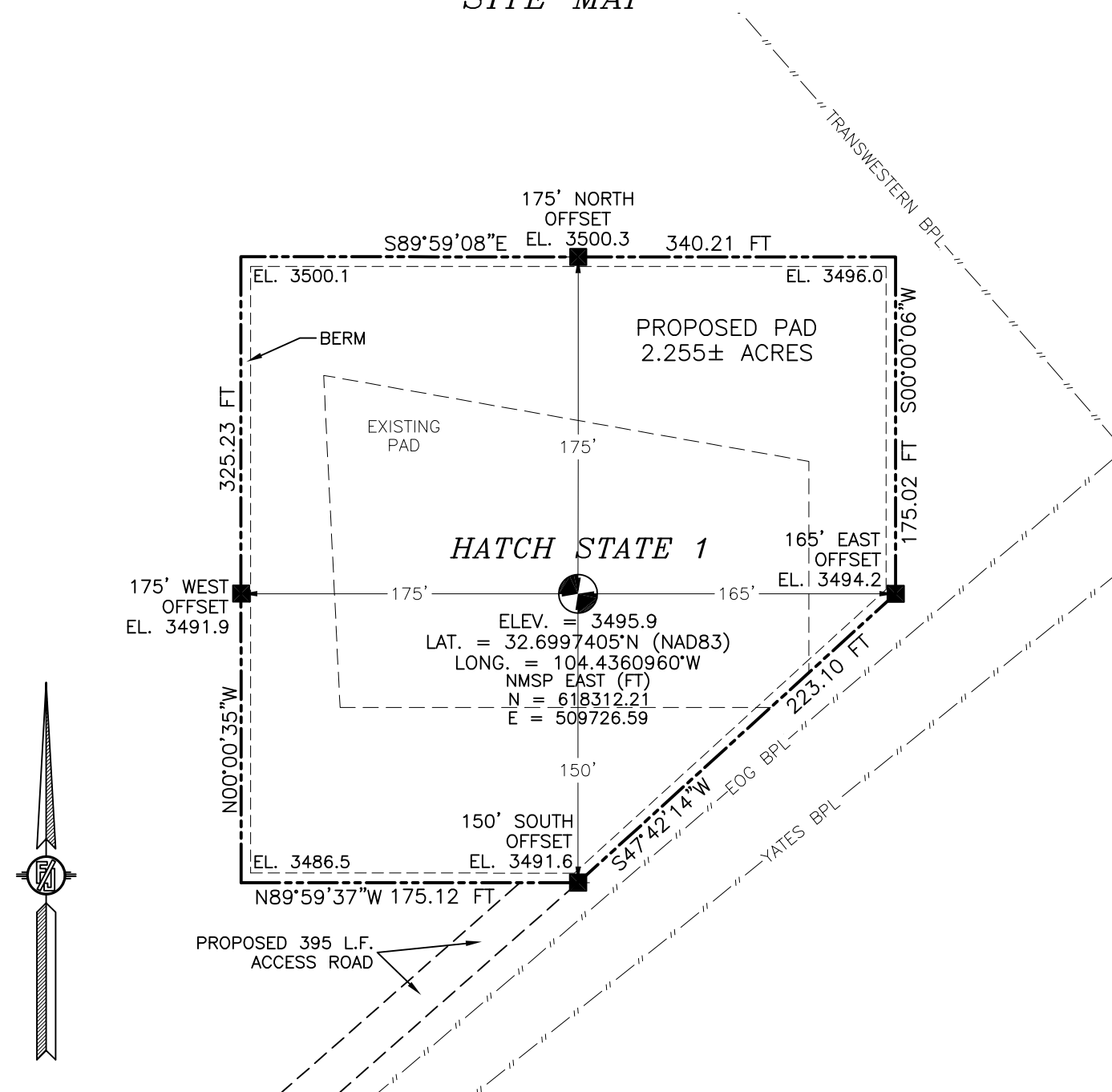
NAD 83 NMSP EAST

A -	N.= 622638.28	E.= 506464.56
B -	N.= 622621.58	E.= 509080.95
C -	N.= 622604.89	E.= 511697.33
D -	N.= 619941.73	E.= 511715.20
E -	N.= 617278.57	E.= 511733.06
F -	N.= 617337.12	E.= 509045.46
G -	N.= 617394.97	E.= 506366.10
H -	N.= 620111.21	E.= 506350.00

LEGEND

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

SECTION 36, TOWNSHIP 18 SOUTH, RANGE 25 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
SITE MAP



0 8 40 80 160

SCALE 1" = 80'
DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF ST. HWY. 285 & CO. RD. 38 (KINCAID RANCH), GO WEST ON CO. RD. 38 APPROX. 2.75 MILES, TURN LEFT (SOUTH) ON 20' CALICHE ROAD AND GO SOUTH APPROX. 0.88 MILES, TURN LEFT (EAST) AND GO EAST APPROX. 0.4 MILES TO A ROAD SURVEY ON LEFT (NORTH) FROM ROAD SURVEY, NORTHEAST APPROX. 395' TO THE SOUTH PAD CORNER FOR THIS LOCATION.

I, FILMON F. JARAMILLO, A NEW MEXICO LICENSED PROFESSIONAL SURVEYOR, CERTIFY THAT I DIRECTED AND SUPERVISED THIS SURVEY, THAT THE SURVEY WAS ACCURATELY MADE AND THAT I AM OF MY KNOWLEDGE AND BELIEF THAT THE SURVEY MEETS THE MINIMUM STANDARDS FOR SUCH SURVEY.

FILMON F. JARAMILLO, LICENSE NO. 7980

MADRON PROFESSIONAL SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3327

MACK ENERGY CORPORATION
HATCH STATE 1

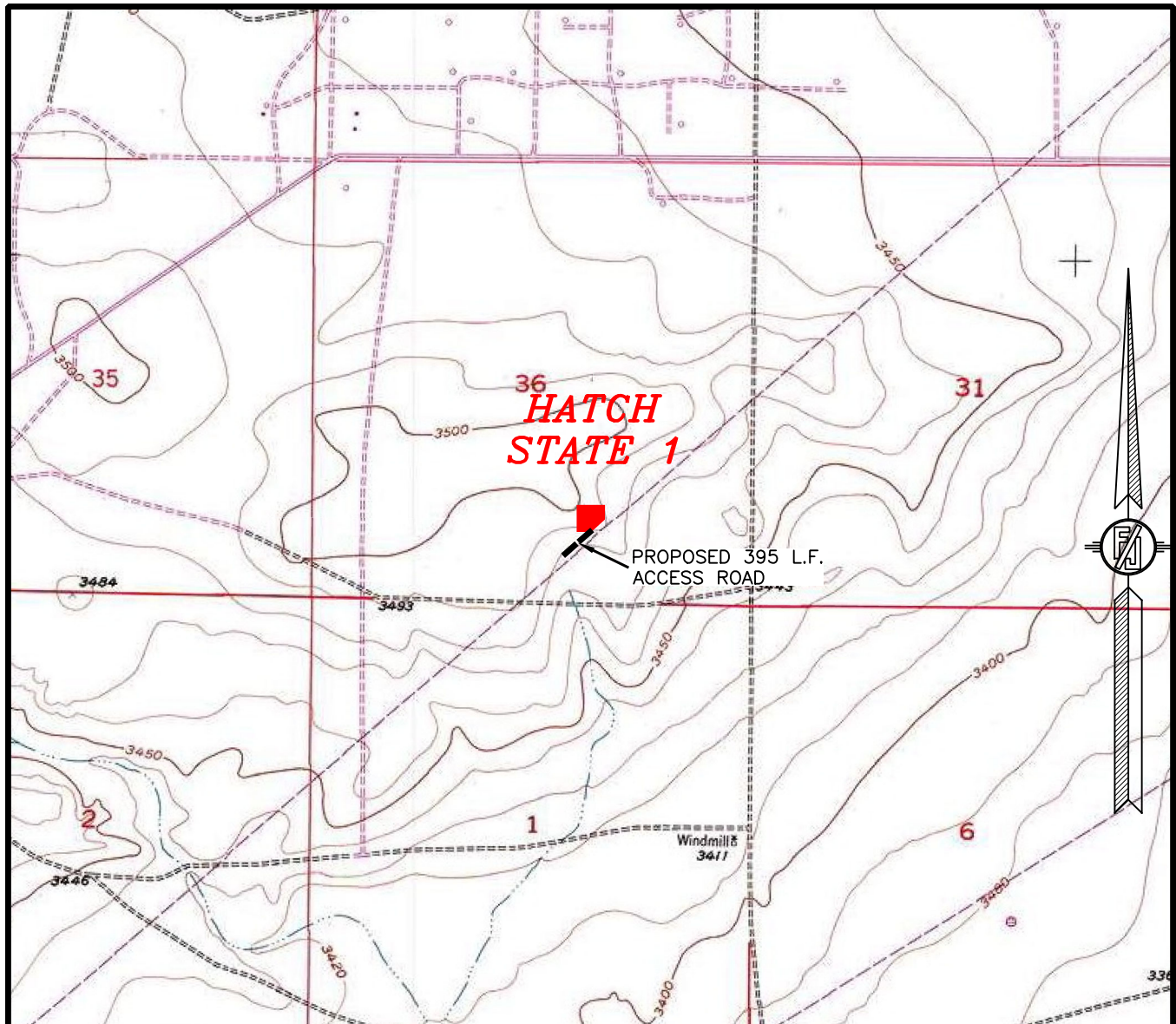
LOCATED 990 FT. FROM THE SOUTH LINE
AND 2000 FT. FROM THE EAST LINE OF
SECTION 36, TOWNSHIP 18 SOUTH,
RANGE 25 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

JUNE 14, 2024

SURVEY NO. 10186

CARLSBAD, NEW MEXICO

SECTION 36, TOWNSHIP 18 SOUTH, RANGE 25 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 LOCATION VERIFICATION MAP



USGS QUAD MAP:
 DAYTON

NOT TO SCALE

MACK ENERGY CORPORATION
HATCH STATE 1
 LOCATED 990 FT. FROM THE SOUTH LINE
 AND 2000 FT. FROM THE EAST LINE OF
 SECTION 36, TOWNSHIP 18 SOUTH,
 RANGE 25 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

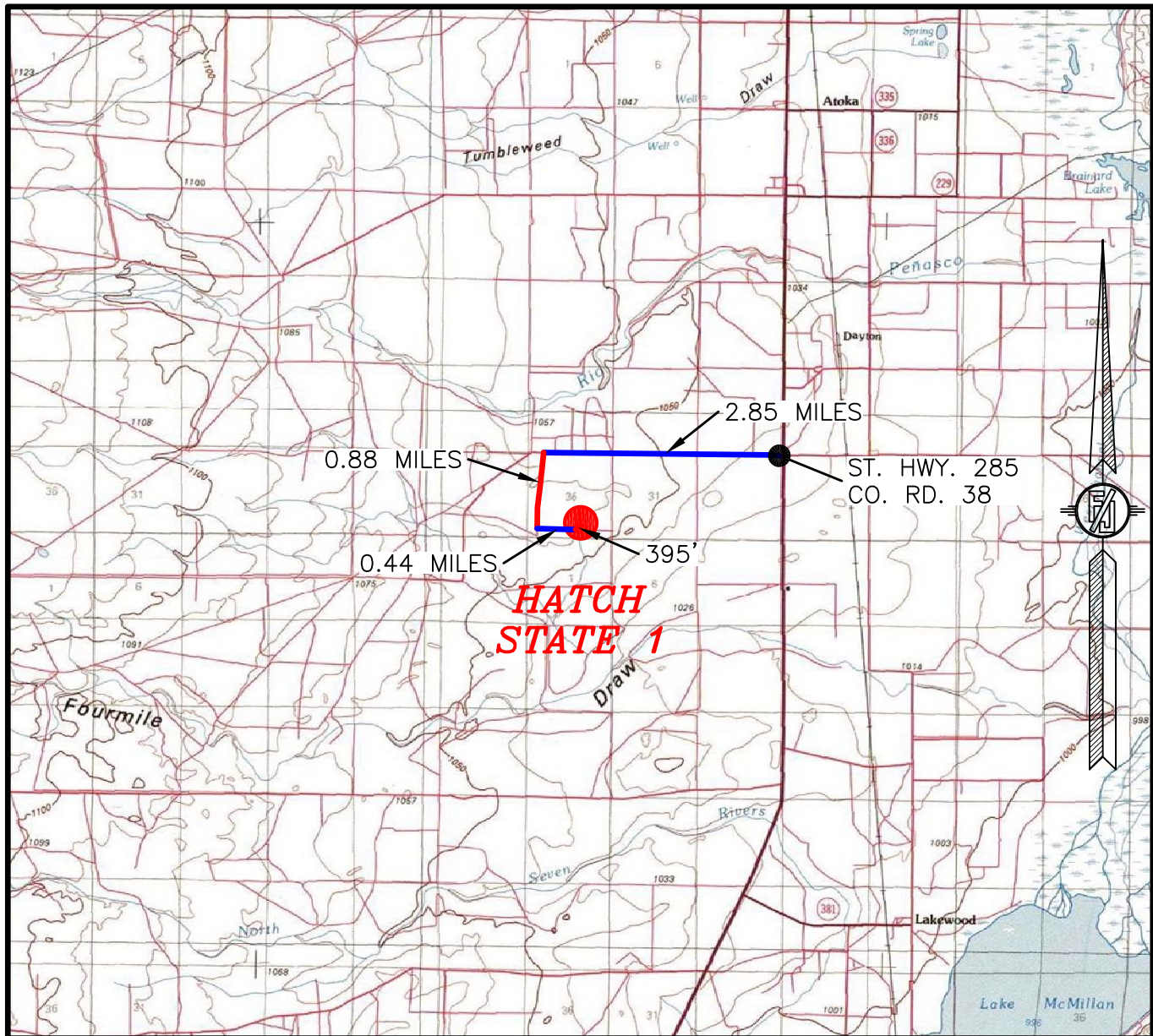
JUNE 14, 2024

MADRON SURVEYING, INC.

301 SOUTH CANAL
 (575) 234-3327

SURVEY NO. 10186
 CARLSBAD, NEW MEXICO

SECTION 36, TOWNSHIP 18 SOUTH, RANGE 25 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF ST. HWY. 285 & CO. RD. 38 (KINCAID RANCH), GO WEST ON CO. RD. 38 APPROX. 2.75 MILES, TURN LEFT (SOUTH) ON 20' CALICHE ROAD AND GO SOUTH APPROX. 0.88 MILES, TURN LEFT (EAST) AND GO EAST APPROX. 0.44 MILES TO A ROAD SURVEY ON LEFT (NORTH), FOLLOW ROAD SURVEY NORTHEAST APPROX. 395' TO THE SOUTH PAD CORNER FOR THIS LOCATION.

MACK ENERGY CORPORATION**HATCH STATE 1**

LOCATED 990 FT. FROM THE SOUTH LINE
AND 2000 FT. FROM THE EAST LINE OF
SECTION 36, TOWNSHIP 18 SOUTH,
RANGE 25 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

JUNE 14, 2024

SURVEY NO. 10186

MADRON SURVEYING, INC. 301 SOUTH CANAL

(575) 234-3327

CARLSBAD, NEW MEXICO

SECTION 36, TOWNSHIP 18 SOUTH, RANGE 25 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 AERIAL PHOTO



NOT TO SCALE
 AERIAL PHOTO:
 GOOGLE EARTH
 JUNE 2024

MACK ENERGY CORPORATION
HATCH STATE 1
 LOCATED 990 FT. FROM THE SOUTH LINE
 AND 2000 FT. FROM THE EAST LINE OF
 SECTION 36, TOWNSHIP 18 SOUTH,
 RANGE 25 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

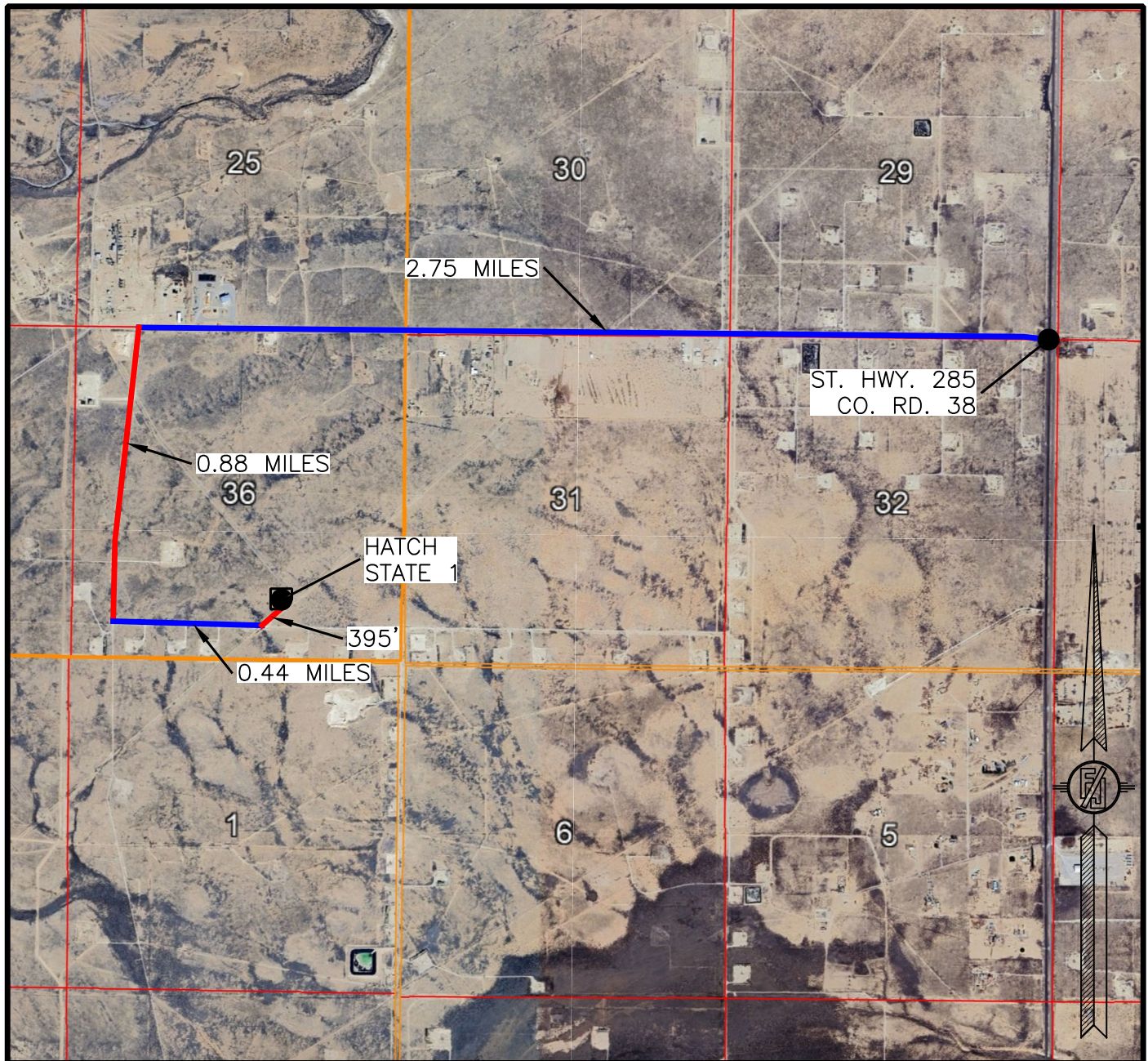
JUNE 14, 2024

SURVEY NO. 10186

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

CARLSBAD, NEW MEXICO

SECTION 36, TOWNSHIP 18 SOUTH, RANGE 25 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 AERIAL ACCESS ROUTE MAP



NOT TO SCALE
 AERIAL PHOTO:
 GOOGLE EARTH
 JUNE 2024

MACK ENERGY CORPORATION
HATCH STATE 1
 LOCATED 990 FT. FROM THE SOUTH LINE
 AND 2000 FT. FROM THE EAST LINE OF
 SECTION 36, TOWNSHIP 18 SOUTH,
 RANGE 25 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

JUNE 14, 2024

SURVEY NO. 10186

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

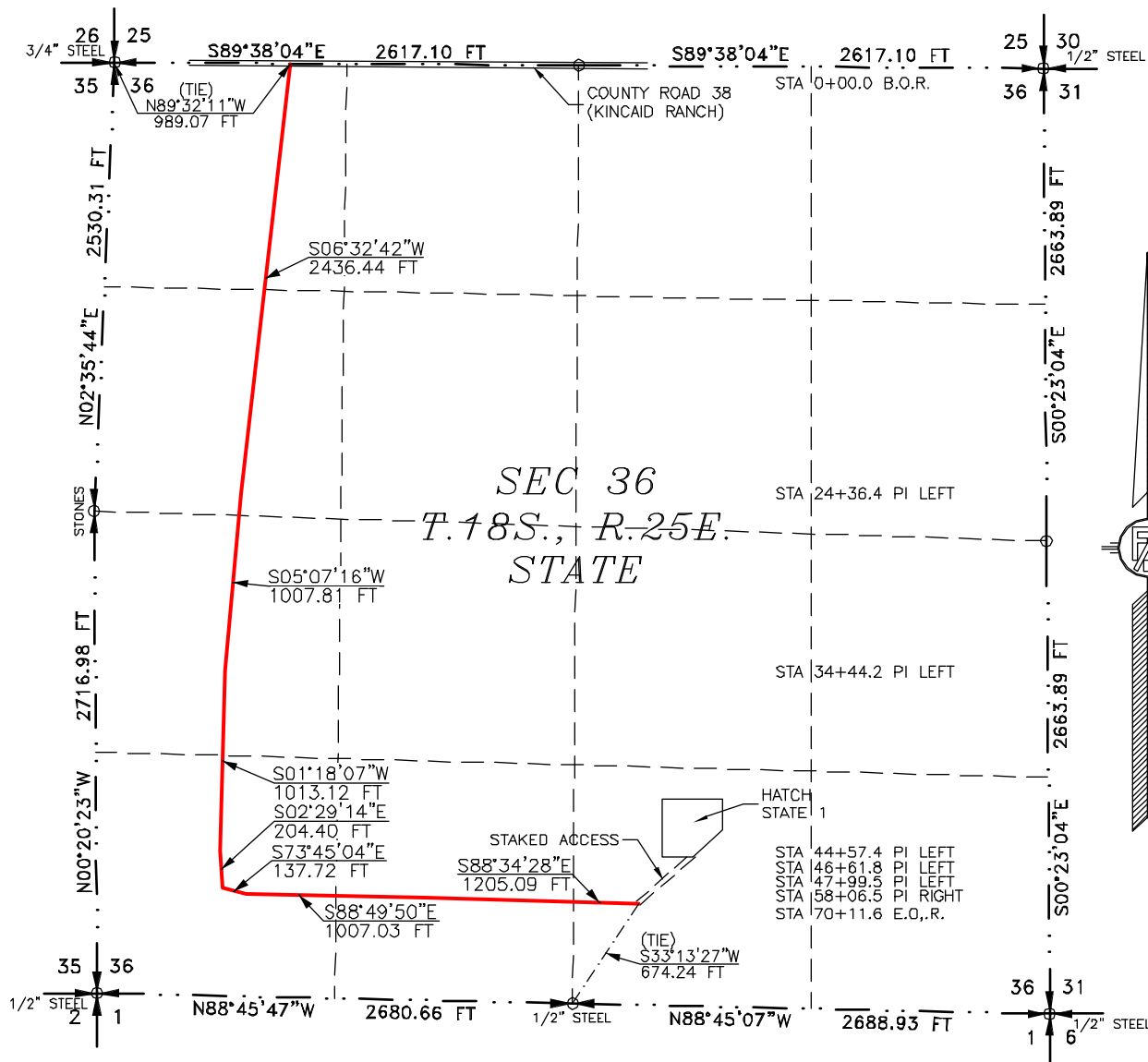
CARLSBAD, NEW MEXICO

ACCESS ROAD PLAT

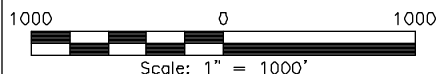
EXISTING ROAD FOR ACCESS TO HATCH STATE 1

MACK ENERGY CORPORATION

**CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 36, TOWNSHIP 18 SOUTH, RANGE 25 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
JUNE 14, 2024**



SEE NEXT SHEET (2-2) FOR DESCRIPTION

**GENERAL NOTES**

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

SHEET: 1-2

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

SURVEYOR CERTIFICATE

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

IN WITNESS WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, 14TH DAY OF AUGUST 2024.

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

SURVEY NO. 10186

ACCESS ROAD PLAT

EXISTING ROAD FOR ACCESS TO HATCH STATE 1

MACK ENERGY CORPORATION

**CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 36, TOWNSHIP 18 SOUTH, RANGE 25 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
JUNE 14, 2024**

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 36, TOWNSHIP 18 SOUTH, RANGE 25 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE NW/4 NW/4 OF SAID SECTION 36, TOWNSHIP 18 SOUTH, RANGE 25 EAST, N.M.P.M., WHENCE THE NORTHWEST CORNER OF SAID SECTION 36, TOWNSHIP 18 SOUTH, RANGE 25 EAST, N.M.P.M. BEARS N89°32'11"W, A DISTANCE OF 989.07 FEET;
THENCE S06°32'42"W A DISTANCE OF 2436.44 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S05°07'16"W A DISTANCE OF 1007.81 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S01°18'07"W A DISTANCE OF 1013.12 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S02°29'14"E A DISTANCE OF 204.40 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S73°45'04"E A DISTANCE OF 137.72 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S88°49'50"E A DISTANCE OF 1007.03 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S88°34'28"E A DISTANCE OF 1205.09 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTH QUARTER CORNER OF SAID SECTION 36, TOWNSHIP 18 SOUTH, RANGE 25 EAST, N.M.P.M. BEARS S33°13'27"W, A DISTANCE OF 674.24 FEET;

SAID STRIP OF LAND BEING 7011.61 FEET OR 424.95 RODS IN LENGTH, CONTAINING 4.829 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 NW/4	1281.44 L.F.	77.66 RODS	0.883 ACRES
SW/4 NW/4	1280.39 L.F.	77.60 RODS	0.882 ACRES
NW/4 SW/4	1355.47 L.F.	82.15 RODS	0.934 ACRES
SW/4 SW/4	1391.71 L.F.	84.35 RODS	0.958 ACRES
SE/4 SW/4	1336.91 L.F.	81.02 RODS	0.921 ACRES
SW/4 SE/4	365.69 L.F.	22.16 RODS	0.252 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 15TH DAY OF AUGUST 2024.

FILIMON F. JARAMILLO
12797
NEW MEXICO PROFESSIONAL SURVEYOR
301 SOUTH CANAL
(575) 234-3327

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

SURVEY NO. 10186

GENERAL NOTES

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

SHEET: 2-2

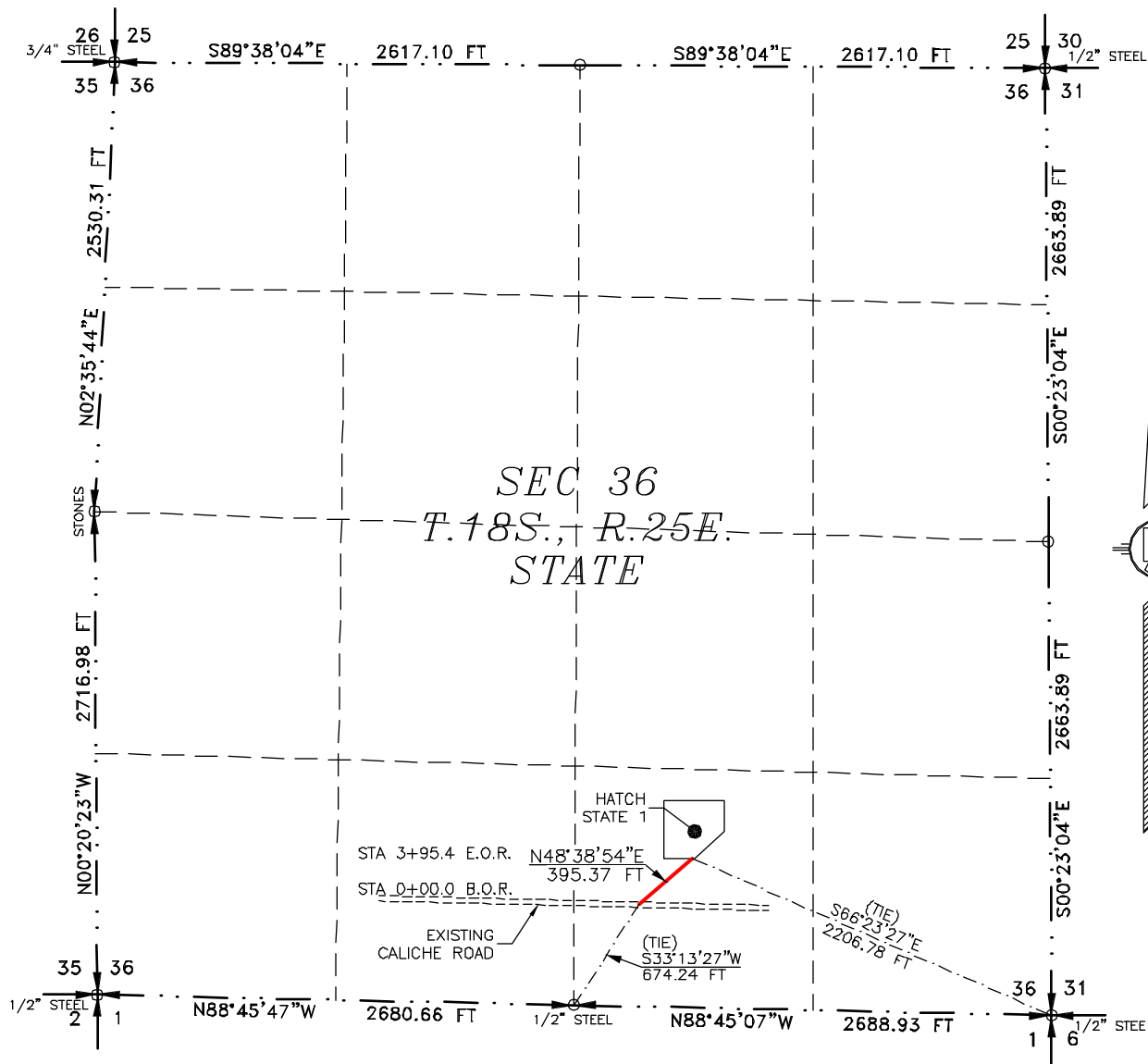
MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

ACCESS ROAD PLAT

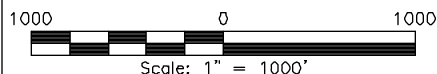
PROPOSED ACCESS ROAD FOR HATCH STATE 1

MACK ENERGY CORPORATION

**CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 36, TOWNSHIP 18 SOUTH, RANGE 25 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
JUNE 14, 2024**



SEE NEXT SHEET (2-2) FOR DESCRIPTION

**GENERAL NOTES**

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

SHEET: 1-2

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

SURVEYOR CERTIFICATE

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

IN WITNESS WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 14TH DAY OF AUGUST 2024.

FILMON F. JARAMILLO, PLS
12797
NEW MEXICO PROFESSIONAL SURVEYOR

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

SURVEY NO. 10186

ACCESS ROAD PLAT
PROPOSED ACCESS ROAD FOR HATCH STATE 1

MACK ENERGY CORPORATION
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 36, TOWNSHIP 18 SOUTH, RANGE 25 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
JUNE 14, 2024

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 36, TOWNSHIP 18 SOUTH, RANGE 25 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE SW/4 SE/4 OF SAID SECTION 36, TOWNSHIP 18 SOUTH, RANGE 25 EAST, N.M.P.M., WHENCE THE SOUTH QUARTER CORNER OF SAID SECTION 36, TOWNSHIP 18 SOUTH, RANGE 25 EAST, N.M.P.M. BEARS S33°13'27"W, A DISTANCE OF 674.24 FEET;
 THENCE N48°38'54"E A DISTANCE OF 395.37 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHEAST CORNER OF SAID SECTION 36, TOWNSHIP 18 SOUTH, RANGE 25 EAST, N.M.P.M. BEARS S66°23'27"E, A DISTANCE OF 2206.78 FEET;

SAID STRIP OF LAND BEING 395.37 FEET OR 23.96 RODS IN LENGTH, CONTAINING 0.272 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SW/4 SE/4 395.37 L.F. 23.96 RODS 0.272 ACRES

GENERAL NOTES

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

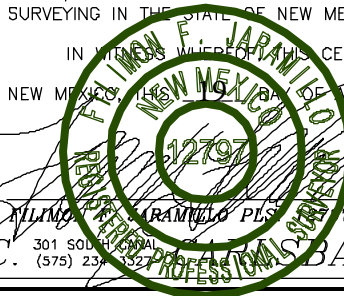
SHEET: 2-2

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

SURVEYOR CERTIFICATE

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

IN WITNESS WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 15TH DAY OF AUGUST 2024.



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

SURVEY NO. 10186

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:** 9 / 6 / 2024

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
Hatch State #1		Unit O Sec 36 T18S R25E	990 FSL 2000 FEL	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
Hatch State #1		1/1/2025	1/20/2025	04/30/2025	04/30/2025	5/1/2025

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

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

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

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

If Operator checks this box, Operator will select one of the following:

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

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

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

Section 4 - Notices

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

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

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

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

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

Signature:	<i>Deana Weaver</i>
Printed Name:	Deana Weaver
Title:	Regulatory Technician II
E-mail Address:	dweaver@mec.com
Date:	9/6/2024
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.

Month	Gas (MCF)
1	10550
2	8917
3	7769
4	6913
5	6247
6	5712
7	5273
8	4904
9	4589
10	4317
11	4080
12	3871
13	3685
14	3518
15	3368
16	3231
17	3107
18	2993
19	2889
20	2792
21	2702
22	2619
23	2542
24	2469
25	2402
26	2338
27	2278
28	2221
29	2168
30	2118
31	2070
32	2024
33	1981
34	1940
35	1900
36	1863
37	1827
38	1793
39	1760
40	1729
41	1698
42	1669
43	1641

44	1615
45	1589
46	1564
47	1540
48	1516
49	1494
50	1472
51	1451
52	1431
53	1411
54	1392
55	1374
56	1356
57	1339
58	1322
59	1305
60	1289
61	1274
62	1259
63	1244
64	1230
65	1216
66	1202
67	1189
68	1176
69	1164
70	1151
71	1140
72	1128
73	1116
74	1105
75	1094
76	1084
77	1073
78	1063
79	1053
80	1043
81	1034
82	1024
83	1015
84	1006
85	998
86	989
87	980

88	972
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90	956
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102	871
103	865
104	858
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106	846
107	840
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117	786
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MACK ENERGY CORPORATION
Hatch State #1 (Re-Entry)
Sec 36-T18s-R25e
API #30-015-10561

Well Information

Original Well Information.

Operator: Monsanto Company
 Well Name: Kincaid #1
 TD: 9,300'
 P&A: 06/10/1965

Existing Casing:

Hole	MD (ft)	Casing	Weight	Grade	Coupling	Comments
12 1/4"	0' - 1,300'	9 5/8"	36#			425 sacks. Circ.to surface.
7 7/8"	1300' - 9,300'	OPEN HOLE				

New Production Casing

Hole	MD (ft)	Casing	Weight	Grade	Coupling	Comments

Production Casing: OD - NONE

Production Casing: OD - NONE

Procedure

Objective: Drill out cement plugs and clean out well to 8,300'. Log, Sidewall core & P&A.

1. Remove Dry Hole Marker. Dig out old Cellar. Find 9 5/8" casing stub. Inspect casing for pits and holes. Install 9 5/8"x11"x 5K Wellhead and test.
2. MIRU PU.
3. Nipple up BOPE and test.
4. PU 7 7/8" bit, 4 3/4" (10) DC's w/ 2 7/8" L-80 work string.
5. Drill out cement plugs.
 - Plug #1 surface plug #1 (5 sacks) Test casing to 500 psi.
 - Plug #2 (169 sacks) at 618' to 716' Test casing to 500 psi.
 - Plug #3 (26 sacks) at 1,264' to 1,365'
 - Plug #4 (33 sacks) at 4,341' to 4,444'
 - Plug #5 (30 sacks) at 7,694' to 7,794'
 - Do Not Drill Plug #6 (26 sacks) at 8,905' to 9,004'
 - Do Not Drill Plug #7 (26 sacks) at 9,221' to 9,316'
6. Circulate hole clean.
7. TOH
8. Rig up Wireline, Log & Sidewall core.

MACK ENERGY CORPORATION
Hatch State #1 (Re-Entry)
Sec 36-T18s-R25e
API #30-015-10561

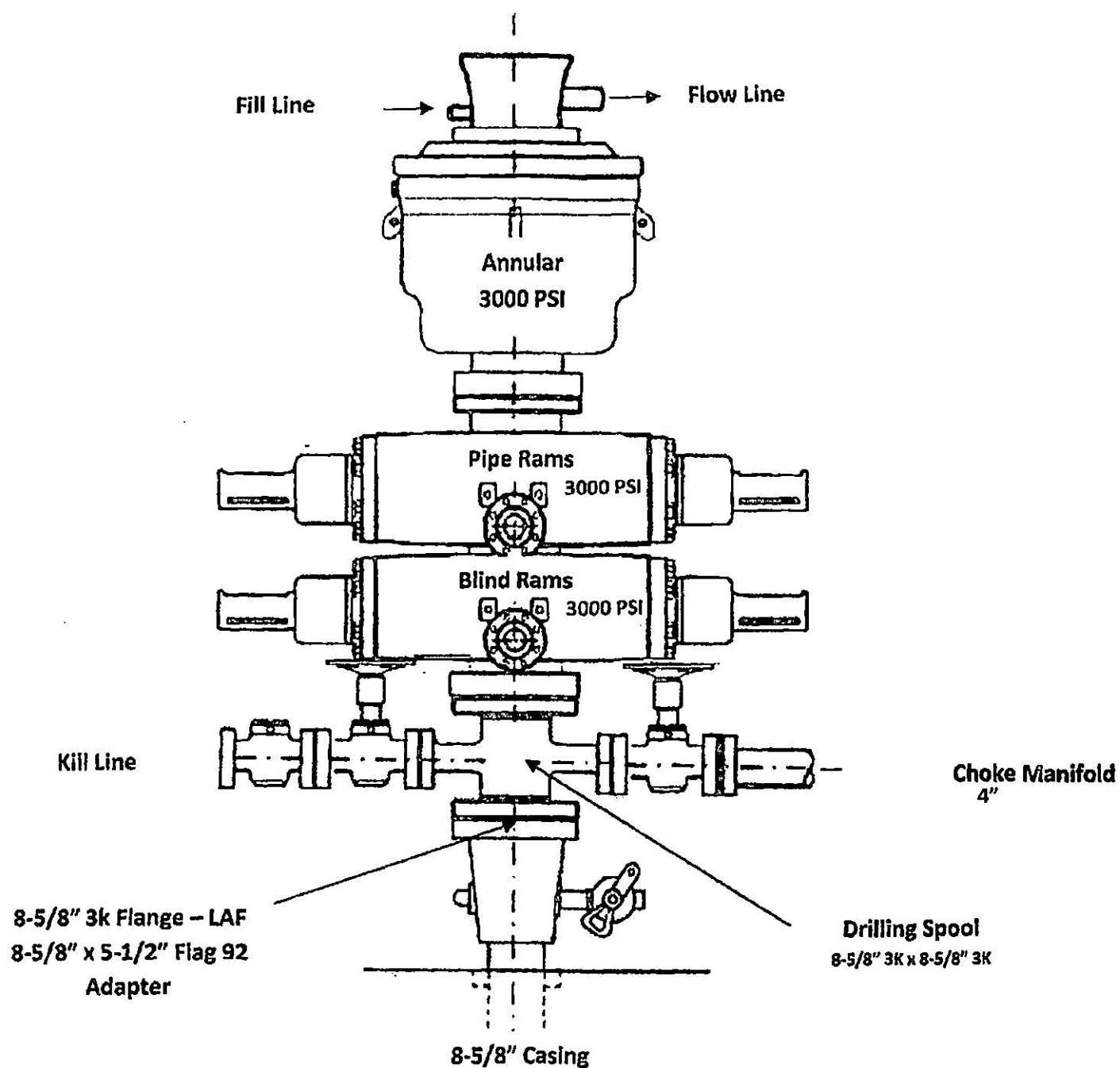
- 9.** TIH open ended and circulate.
- 10.** Spot 35 sacks Class H cement plug @ 8,253' (Strawn 8,203')
- 11.** Spot 35 sacks Class H cement plug @ 7,729' (Canyon 7,679')
- 12.** Spot 35 sacks Class C Cement Plug @ 6,852' (Cisco 6,802')
- 13.** Spot 35 sacks Class C Cement Plug @ 5,799' (Wolfcamp 5,749')
- 14.** WOC 4 hrs & Tag
- 15.** Spot 85 sacks Class C Cement Plug @ 4,520' (Abo 4470')
- 16.** Spot 35 sacks Class C Cement Plug @ 2,270' (Glorieta 2,220')
- 17.** Spot 35 sacks Class C Cement Plug @ 1350' (Casing set @ 1300')
- 18.** WOC 4 hrs & Tag
- 19.** Surface plug 25 sacks Class C Cement
- 20.** Wellhead cut off shall commence within 10 calendar days of the well being plugged. Notify NMOCD to witness cut off.

Hatch State #1
API # 30-015-10561
SWSE Sec. 36 T18S R25E
Formation Tops

Grayburg	481'
San Andres	805'
Glorieta	2220'
Abo	4470'
Wolfcamp	5749'
Cisco	6802'
Canyon	7679'
Strawn	8203'

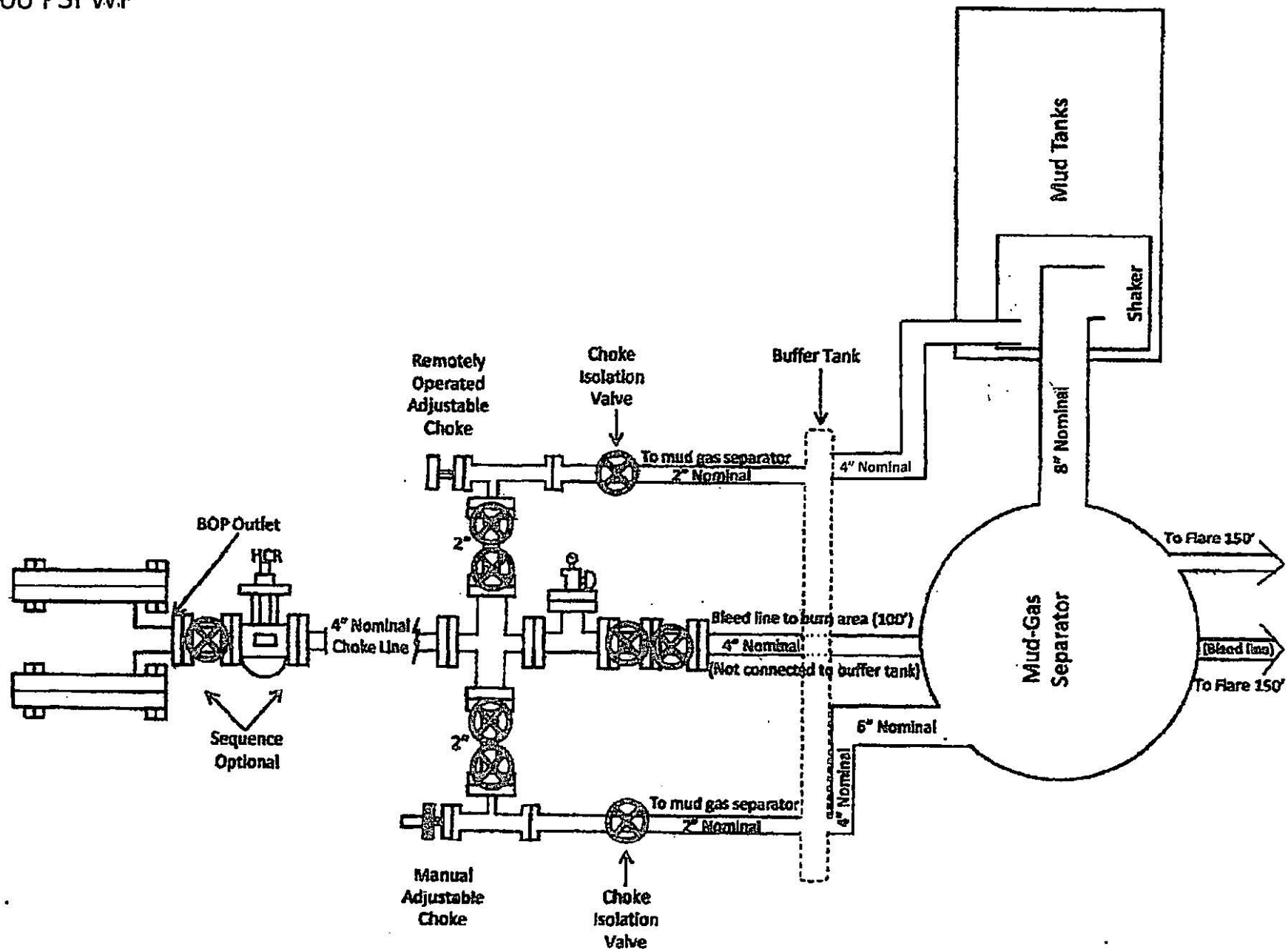
BOP Diagram

Dual Ram BOP
3000 PSI WP



Choke Manifold

3000 PSI WP



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 Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 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 382235

CONDITIONS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 382235
	Action Type: [C-101] Drilling Non-Federal/Indian (APD)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Required cement plugs are as follows: 8253' - 8153' Strawn 7794' - 7694' Canyon 6852' - 6752' Cisco 5799' - 5699' Wolfcamp 4520' - 4420' Abo 2270' - 2170' Glorieta 1365' - 1264' Surface casing shoe 855' - 755' San Andres 250' - Surface Surface plug	10/1/2024
ward.rikala	Notify OCD 24 hours prior to casing & cement	10/1/2024