Phone: (505) 476-3441 General Information Phone: (505) 629-6116

Online Phone Directory

Depth to Ground water

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

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

Form C-101 August 1, 2011

Permit 375856

4/1/2025

Distance to nearest surface water

Manufacturer

		APPLICA	ATION FOR PE	RMIT TO DR	ILL, RE-E	ENTER, DEEF	PEN, PLUGBA	CK, OR A	DD A ZO	ONE		
	ame and Address	RP							2. 00	GRID Number 13837		
-). Box 960 esia, NM 8821109	60							3. AP	Number 30-015-557	71	
4. Property Code 5. Property Name Mission State									6. We	ell No. 001H		
					7. Surfa	ace Location						
UL - Lot	Section	Township	Range	Lot Id	Lot Idn Fe	Feet From	N/S Line	Feet Fro	m	E/W Line	County	
M	2	16	S 2	8E		200	200 S 99		990	W		Eddy
				8. Pr	oposed Bo	ottom Hole Loca	ition					
UL - Lot	Section	Township	Range	Lot I	dn	Feet From	N/S Line	Feet Fro	n	E/W Line	County	
D	2	16	SS 2	28E	4	1	N		990	E		Eddy
					9. Pool	Information						
ROUND TAN	NK;SAN ANDRES									52770		
				А	dditional	Well Information	1					
11. Work Type Ne	w Well	12. Well Ty	pe DIL	13. Cable/Rot	13. Cable/Rotary					Level Elevation 3579		
New Well OIL State 3579 16. Multiple 17. Proposed Depth 18. Formation 19. Contractor 20. Spud Date												

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

Туре

9334

21. Proposed Casing and Cement Program

San Andres

Distance from nearest fresh water well

	2111 Topocca Gaoing and Goment Togram												
Туре	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC							
Surf	17.5	13.375	48	250	300	0							
Int1	12.25	9.625	36	1200	660	0							
Prod	8.75	7	26	2850	200	0							
Prod	8.75	5.5	17	9334	1875	0							

Casing/Cement Program: Additional Comments

Mack Energy Corporation proposed to drill 17 1/2" hole to 250', run 13 3/8 csg/cmt. Drill 12 1/4" hole to 1,200', run 9 5/8" csg/cmt. Drill 8 3/4" hole to 9,334', run 7" csg 0-2,850', run 5 1/2" csg 2,850'-9,334' and cmt. Put well on production.

22. Proposed Blowout Prevention Program
Working Pressure

Test Pressure

Double Ram	3000	3000	
23. I hereby certify that the information given ab knowledge and belief. I further certify I have complied with 19.15.14. ⋈, if applicable.	,	OIL CONSERVATI	ON DIVISION

Signature:						
Printed Name:	Electronically filed by Jerry Sherre	II	Approved By:	Ward Rikala		
Title:	Regulatory Supervisor		Title:	Petroleum Specialist Supervisor		
Email Address:	jerrys@mec.com		Approved Date:	11/21/2024	Expiration Date: 11/21/2026	
Date:	10/29/2024	Phone: 575-748-1288	Conditions of Approval Attached			

<u>C-1</u>	<u>02</u>	0/29/2024-9		nergy, M	inerals & Natu	ew Mexico ral Resources Dep ATION DIVISIO			Re	Page vised July 9, 202
	it Electronical CD Permitting			OIL	CONSERVA	TION DIVISIO	IN		☐ Initial Sub	nittal
	J							Submittal Type:	☐ Amended I	Report
								1)po.	☐ As Drilled	
					WELL LOCA	ATION INFORMATI	ION			
API N	lumber		Pool Code			Pool Name				
Prope	rty Code		Property N	Jame MI	SSION STAT	E			Well Number	1H
OGRI	D No. 138	37	Operator N	Iame MA	ACK ENERGY	CORPORATIO	N		Ground Level Elevation	3578.5
Surfac	ce Owner: 🗆 S	State Fee	Tribal □Feder	al		Mineral Owne	er: State Fee	Tribal □Fed		
					Sur	rface Location				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	_	gitude	County
M	2	16 S	28 E		200 SOUTH	990 WEST	32.9461162°	N 104.	.1519341°W	EDDY
	•		II.	•	Botto	m Hole Location		•		•
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	_	gitude	County EDDY
	2	16 S	28 E	4	1 NORTH	990 WEST	32.9652768°	N 104.	104.1520327°W	
		1								
Dedicated Acres Infill or Defining Well Defining Well API 220				ig Well API	Overlapping Sp	pacing Unit (Y/N)	Consolidation	on Code		
Order	Numbers.					Well setbacks a	re under Common	Ownership: [□Yes □No	
					Kick	Off Point (KOP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	_	gitude	County
M	2	16 S	28 E		200 SOUTH	990 WEST	32.9461162°	N 104.	.1519341°W	EDDY
	-		II.		First 7	Take Point (FTP)		<u> </u>		-
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	_	gitude	County
M	2	16 S	28 E		100 SOUTH	990 WEST	32.9458412°	N 104.	.1519332°W	EDDY
					Last T	Γake Point (LTP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	_	gitude	County
	2	16 S	28 E	4	100 NORTH	H 990 WEST	32.9650047°	N 104.	.1520313°W	EDDY
		277.12		1						
Unitiz	ed Area or A	rea of Uniform	Interest	Spacing	g Unit Type □Hor	rizontal ∐Vertical	Grou	nd Floor Elev	ation:	
							'			
OPER	ATOR CERT	TFICATIONS				SURVEYOR CER	TIFICATIONS			
					mplete to the best		the well location sho			
organi	zation either ow	elief, and, if the v vns a working inte	erest or unlease	d mineral int	erest in the land	surveys made by me my belief.	or under my supervisi	on, and that the	e same is true and c	correct to the besi
		d bottom hole loc contract with an			his well at this run leased mineral		210	IN F. JA,	Residence	
interes		ary pooling agree			ng order here to fore			W MEXA		
			e coptifi, that this	ovaaninatio	n has received the		Shir			/
consen	t of at least one	lessee or owner	of a working int	erest or unle	ased mineral interest			12/1947		
		rget pool or form d or obtained a co			he well's completed m the division.		NUT		A STATE OF THE STA	
D	elilah	Flores	10/2	28/2024	4		X FR	An	37	
Signatu			Date			Signature and Seal of	Professional Surveyor	PROFESS (O)	Mu	

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.

CertificateNumber

PLS 12797

FILIMON F. JARAMILLO

Dateof Survey

SEPTEMBER 12, 2024

SURVEY NO. 10256

Delilah Flores

delilah@mec.com

Printed Name

Email Address

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.

® N89°42'41"E 2602.61 FT © (A) N89°44'Q 2603.34 FT ROTTOM L2 | L1 L4 OF HOLE L3 L5 LTP L6 L7 | L8 ᇤ L 99. NO0'21'03"W 4498.77 4517. لىإ 4 27, L10 L9 L11 SEC.L12 L15 L16 L13 L14 V051880002 0 \oplus L ᆫ NO0'20'17"W 2671.40 2672.73 لبا S00'25'59' SURFACE LOCATION 2609.68 FT S89°55'53"W 2608.89

MISSION STATE 1H
EL. = 3578.5

GEODETIC COORDINATES
NAD 83 NMSP EAST
SURFACE LOCATION
200' FSL, 990' FWL
N.=707980.14
E.=596984.08

LAT.=32.9461162°N

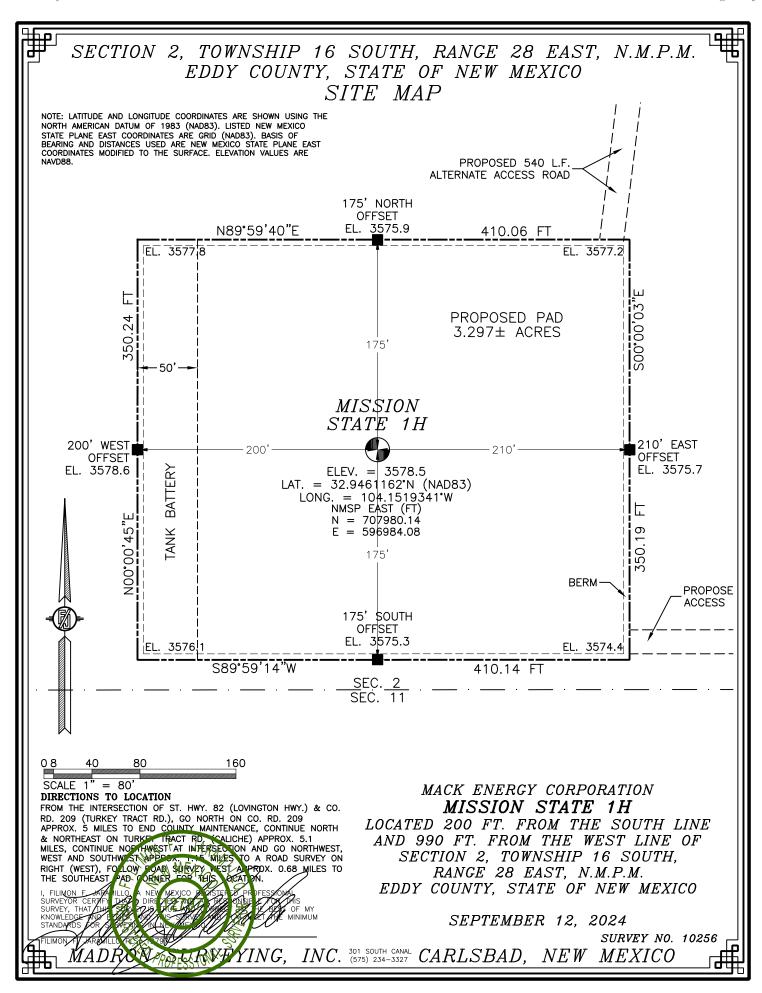
LONG.=104.1519341°W

KICK OFF POINT 200' FSL, 990' FWL N.=707980.14 E.=596984.08 LAT.=32.9461162'N LONG.=104.1519341'W

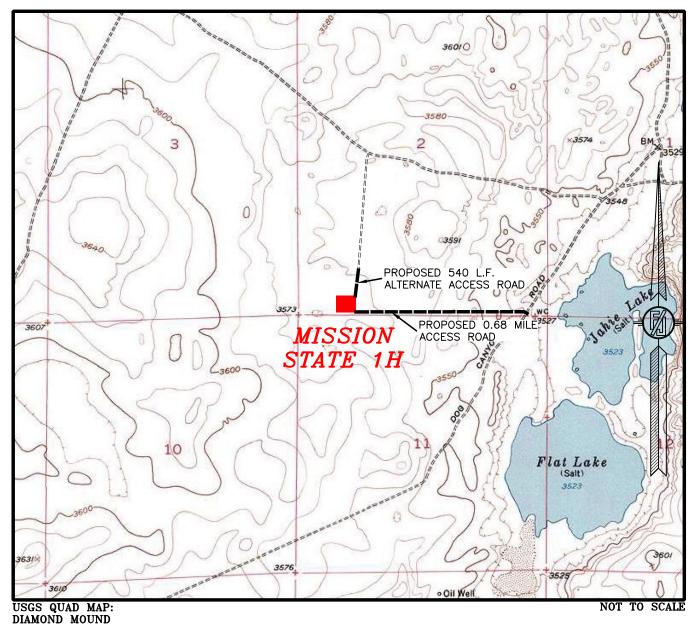
100' FNL, 990' FWL N.=714852.18 E.=596942.42 LAT.=32.9650047'N LONG.=104.1520313'W FIRST TAKE POINT 100' FSL, 990' FWL N.=707880.10 E.=596984.53 LAT.=32.9458412'N LONG.=104.1519332'W BOTTOM OF HOLE

1' FNL, 990' FWL N.=714951.16 E.=596941.81 LAT.=32.9652768'N LONG.=104.1520327'W

CORNER COORDINATES TABLE NAD 83 NMSP EAST N.=714947.59 E.=595952.08 В N.=714959.61 E.=598554.71 N.=714972.72 N.=710456.37 E.=601156.62 C D E E.=601192.39 N.=707784.41 E.=601212.58 N.=707781.29 E.=598604.37 G N.=707779.41 E.=595995.36 Н - N.=710450.07 E.=595979.61



SECTION 2, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO LOCATION VERIFICATION MAP



MACK ENERGY CORPORATION
MISSION STATE 1H

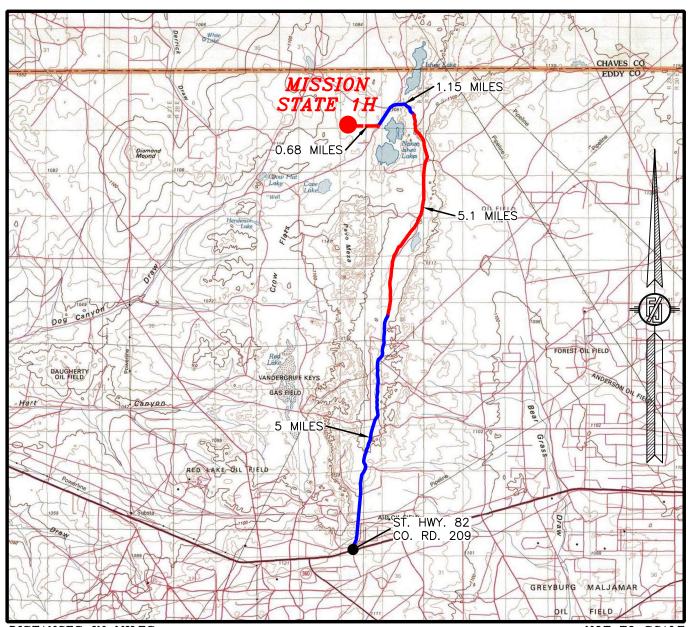
LOCATED 200 FT. FROM THE SOUTH LINE AND 990 FT. FROM THE WEST LINE OF SECTION 2, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

SEPTEMBER 12, 2024

SURVEY NO. 10256

 $MADRON \quad SURVEYING, \quad INC. \quad {\tiny 5075} \quad {\tiny 234-3327} \quad CARLSBAD, \quad NEW \quad MEXICO$

SECTION 2, TOWNSHIP 16 SOUTH, RANGE 28 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. 82 (LOVINGTON HWY.) & CO. RD. 209 (TURKEY TRACT RD.), GO NORTH ON CO. RD. 209 APPROX. 5 MILES TO END COUNTY MAINTENANCE, CONTINUE NORTH & NORTHEAST ON TURKEY TRACT RD. (CALICHE) APPROX. 5.1 MILES, CONTINUE NORTHWEST AT INTERSECTION AND GO NORTHWEST, WEST AND SOUTHWEST APPROX. 1.15 MILES TO A ROAD SURVEY ON RIGHT (WEST), FOLLOW ROAD SURVEY WEST APPROX. 0.68 MILES TO THE SOUTHEAST PAD CORNER FOR THIS LOCATION.

MACK ENERGY CORPORATION

MISSION STATE 1H

LOCATED 200 FT. FROM THE SOUTH LINE
AND 990 FT. FROM THE WEST LINE OF

AND 990 FT. FROM THE WEST LINE OF SECTION 2, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

SEPTEMBER 12, 2024

SURVEY NO. 10256

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

SECTION 2, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO AERIAL PHOTO



NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH APRIL, 2023

MACK ENERGY CORPORATION
MISSION STATE 1H

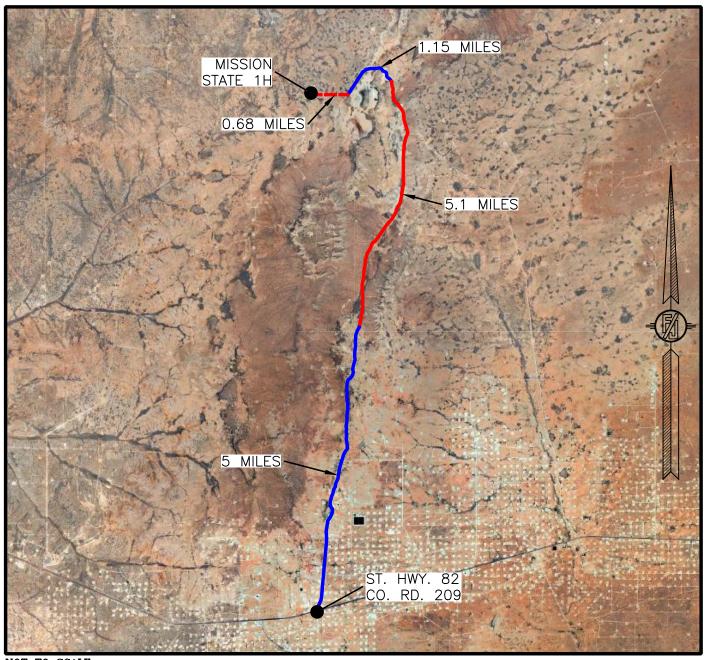
LOCATED 200 FT. FROM THE SOUTH LINE AND 990 FT. FROM THE WEST LINE OF SECTION 2, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

SEPTEMBER 12, 2024

SURVEY NO. 10256

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

SECTION 2, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO AERIAL ACCESS ROUTE MAP



NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH APRIL, 2023

MACK ENERGY CORPORATION
MISSION STATE 1H

LOCATED 200 FT. FROM THE SOUTH LINE AND 990 FT. FROM THE WEST LINE OF SECTION 2, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

SEPTEMBER 12, 2024

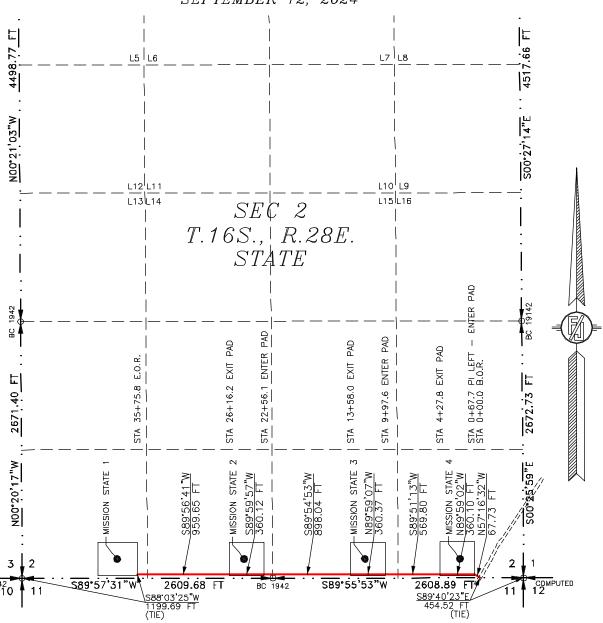
SURVEY NO. 10256

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

ACCESS ROAD FOR MISSION STATE 1

MACK ENERGY CORPORATION

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 2, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO SEPTEMBER 12, 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

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 MEN WIEDER THE CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEN CHARLES AND COLOBER 2022

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

SURVEY NO. 10256

MADRON SURVEYING, INC. 301 SODE STATE BAD, NEW MEXICO

ACCESS ROAD FOR MISSION STATE 1

MACK ENERGY CORPORATION

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 2, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO SEPTEMBER 12, 2024

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 2, TOWNSHIP 16 SOUTH, RANGE 28 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 SE/4 SE/4 OF SAID SECTION 2, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M., WHENCE THE SOUTHEAST CORNER OF SAID SECTION 2, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS S89°40'23"E, A DISTANCE OF 454.52 FEET;

THENCE N57'16'32"W A DISTANCE OF 67.73 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N89'59'02"W A DISTANCE OF 360.10 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S89'51'13"W A DISTANCE OF 569.80 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N89'59'07"W A DISTANCE OF 360.37 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S89'54'53"W A DISTANCE OF 898.04 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S89'59'57"W A DISTANCE OF 360.12 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S89'56'41"W A DISTANCE OF 959.65 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHWEST CORNER OF SAID SECTION 2, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS S88'03'25"W, A DISTANCE OF 1199.69 FEET;

SAID STRIP OF LAND BEING 3575.81 FEET OR 216.72 RODS IN LENGTH, CONTAINING 2.463 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SE/4	SE/4	860.98 L.F.	52.18 RODS	0.593 ACRES
SW/4	SÉ/4	1304.43 L.F.	79.06 RODS	0.898 ACRES
SE/4	SW/4	1304.82 L.F.	79.08 RODS	0.899 ACRES
SW/4	SW/4	105.58 L.F.	6.40 RODS	0.073 ACRES

SURVEYOR CERTIFICATE

NEW M

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

 \widetilde{MADRON} SURVEYING, INC. (575)

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.

MAN OF COMBER 2029

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

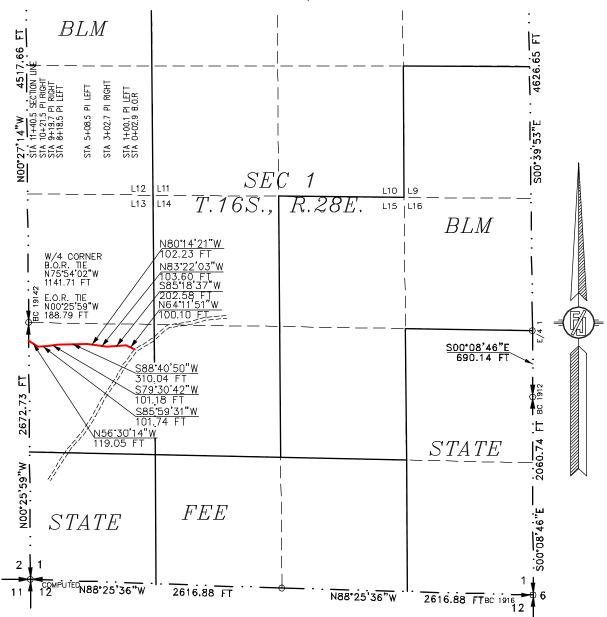
NEW MEXICO

SURVEY NO. 10256

EXISTING ROAD FOR ALTERNATE ACCESS TO MISSION STATE 1H

MACK ENERGY CORPORATION

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 1, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO SEPTEMBER 12, 2024



SEE NEXT SHEET (2-4) 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 SURVĖY.

SHEET: 1-4

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 SURVEYIN TE OF NEW MEXICO.

ERTIFICATE IS EXECUTED AT CARLSBAD, NEW N MADRON SURVEYING, INC.

7301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220 Phone (575) 234-3327

SURVEY NO. 10256 *NEW MEXICO*

EXISTING ROAD FOR ALTERNATE ACCESS TO MISSION STATE 1H

MACK ENERGY CORPORATION

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 1, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO SEPTEMBER 12, 2024

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 1, TOWNSHIP 16 SOUTH, RANGE 28 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 SW/4 OF SAID SECTION 1, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M., WHENCE THE WEST QUARTER CORNER OF SAID SECTION 1, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS N75°54'02"W, A DISTANCE OF 1141.71 FEET;

THENCE N64"11"51"W A DISTANCE OF 100.10 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S85"18"37"W A DISTANCE OF 202.58 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N83"22'03"W A DISTANCE OF 103.60 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N80"14"21"W A DISTANCE OF 102.23 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S88"40"50"W A DISTANCE OF 310.04 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S79"30"42"W A DISTANCE OF 101.18 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S85"59"31"W A DISTANCE OF 101.74 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N56"30"14"W A DISTANCE OF 119.05 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE WEST QUARTER CORNER OF SAID SECTION 1, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS NOO"25"59"W, A DISTANCE OF 188.79 FEET;

SAID STRIP OF LAND BEING 1140.51 FEET OR 69.12 RODS IN LENGTH, CONTAINING 0.785 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 SW/4 1140.51 L.F. 69.12 RODS 0.765 ACRES

SURVEYOR CERTIFICATE

GENERAL NOTES

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

SHEET: 2-4

MADRON SURVEYING, INC. (575)

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 AT THE STATE OF NEW MEXICO.

IN WINDS WIFE OF THE CERTIFICATE IS EXECUTED AT CARLSBAD.

NEW MENTS. HEN DE CARLSBAD.

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

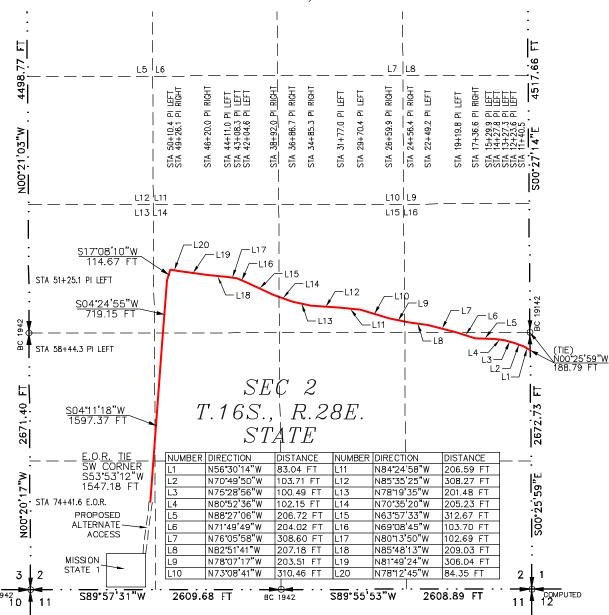
NEW MEXICO

SURVEY NO. 10256

EXISTING ROAD FOR ALTERNATE ACCESS TO MISSION STATE 1H

MACK ENERGY CORPORATION

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 2, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO SEPTEMBER 12, 2024



SEE NEXT SHEET (4-4) FOR DESCRIPTION

NEW N



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: 3-4

MADRON SURVEYING

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 A THE STATE OF NEW MEXICO.

IN WHERE OF THE CERTIFICATE IS EXECUTED AT CARLSBAD,

MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 8822D
Phone (575) 234-3327

SURVEY NO. 10256

INC. (576) 233 227 SEAD, NEW MEXICO

EXISTING ROAD FOR ALTERNATE ACCESS TO MISSION STATE 1H

MACK ENERGY CORPORATION

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 2, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO SEPTEMBER 12, 2024

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 2, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE NE/4 SE/4 OF SAID SECTION 2, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M., WHENCE THE EAST QUARTER CORNER OF SAID SECTION 2, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS, N.D. 25/59"W. A DISTANCE OF 188 79 FEET.

BEARS NOO'25'59"W, A DISTANCE OF 188.79 FEET; THENCE N56'30'14"W A DISTANCE OF 83.04 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N70'49'50"W A DISTANCE OF 103.71 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N75°28'56"W A DISTANCE OF 100.49 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N80°52'36"W A DISTANCE OF 102.15 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N88°27'06"W A DISTANCE OF 206.72 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N71°49'49"W A DISTANCE OF 204.02 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N76°05'58"W A DISTANCE OF 308.60 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N82°51'41"W A DISTANCE OF 207.18 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N78'07'17"W A DISTANCE OF 203.51 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N73°08'41"W A DISTANCE OF 310.46 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N84°24'58"W A DISTANCE OF 206.59 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N85'35'25"W A DISTANCE OF 308.27 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N7819'35"W A DISTANCE OF 201.48 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N70'35'20"W A DISTANCE OF 205.23 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N63'57'33"W A DISTANCE OF 312.67 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N69'08'45"W A DISTANCE OF 103.70 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N80"13"50"W A DISTANCE OF 102.69 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED: THENCE N85'48'13"W A DISTANCE OF 209.03 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED: THENCE N81'49'24"W A DISTANCE OF 306.04 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N78"2'45"W A DISTANCE OF 84.35 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S17'08'10"W A DISTANCE OF 114.67 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE SO4"24'55"W A DISTANCE OF 719.15 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE SO4"11'18"W A DISTANCE OF 1597.37 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHWEST CORNER OF SAID SECTION 2, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS S53'53'12"W, A DISTANCE OF 1547.18 FEET;

SAID STRIP OF LAND BEING 6301.11 FEET OR 381.89 RODS IN LENGTH, CONTAINING 4.340 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NEW M

NE/4 SE/4	791.79 L.F.	47.99 RODS	0.545 ACRES
LOT 16	560.05 L.F.	33.94 RODS	0.386 ACRES
LOT 15	1336.06 L.F.	80.97 RODS	0.920 ACRES
LOT 14	1847.29 L.F.	111.96 RODS	1.272 ACRES
NE/4 SW/4	1148.91 L.F.	69.63 RODS	0.791 ACRES
NW/4 SW/4 SW/4 SW/4	190.68 L.F.	11.56 RODS	0.131 ACRES
SW/4 SW/4	426.33 L.F.	25.84 RODS	0.294 ACRES

SURVEYOR CERTIFICATE

GENERAL NOTES

- 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: 4-4

MADRON SURVEYING, INC. (975)

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 AS THE STATE OF NEW MEXICO.

WITTER SERTIFICATE IS EXECUTED AT CARLSBAD,

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 8822D Phone (575) 234-3327

NEW MEXICO

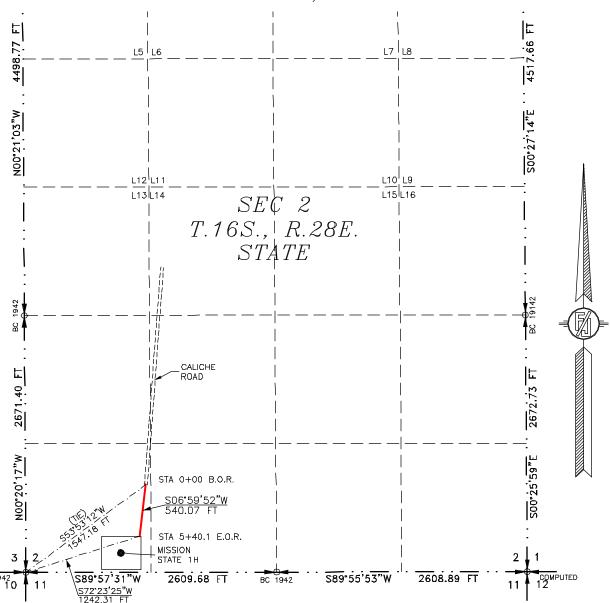
SURVEY NO. 10256

Reteased to Imaging: 11/21/2024 8:02:13 AM

ALTERNATE ACCESS ROAD FOR MISSION STATE 1H

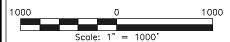
MACK ENERGY CORPORATION

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 2, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO SEPTEMBER 12, 2024



SEE NEXT SHEET (2-2) FOR DESCRIPTION

INC. (575)



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

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 MEDICAL CERTIFICATE IS EXECUTED AT CARLSBAD.

NEW MEXICO, HEN MEL BAY OF OCTOBER 2023

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 8822D Phone (575) 234-3327

SURVEY NO. 10256

BAD, NEW MEXICO

ALTERNATE ACCESS ROAD FOR MISSION STATE 1H

MACK ENERGY CORPORATION

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 2, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO SEPTEMBER 12, 2024

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 2, TOWNSHIP 16 SOUTH, RANGE 28 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 SW/4 OF SAID SECTION 2, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M., WHENCE THE SOUTHWEST CORNER OF SAID SECTION 2, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS S53*53'12"W, A DISTANCE OF 1547.18 FEET;

THENCE SO6'59'52"W A DISTANCE OF 540.07 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHWEST CORNER OF SAID SECTION 2, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS S72'23'25"W, A DISTANCE OF 1242.31 FEET;

SAID STRIP OF LAND BEING 540.07 FEET OR 32.73 RODS IN LENGTH, CONTAINING 0.372 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SW/4 SW/4 540.07 L.F. 32.73 RODS 0.372 ACRES

SURVEYOR CERTIFICATE

NEW M

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

 $\stackrel{\sim}{MADRON}$ SURVEYING, INC. (575)

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.

Wispeon April Certificate is executed at Carlsbad.

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

NEW MEXICO

SURVEY NO. 10256

Released to Imaging: 11/21/2024 8:02:13 AM

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

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

Form APD Conditions

Permit 375856

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
MACK ENERGY CORP [13837]	30-015-55771
P.O. Box 960	Well:
Artesia, NM 882110960	Mission State #001H

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

OperatorMack Energy CorpUnitsfeet, °/100ft07:27 Friday, October 11, 2024 Page 1 of 5FieldRound TankCountyEddyVertical Section Azimuth359.66

Well Name Mission State #1H State New Mexico Survey Calculation Method Minimum Curvature
Plan 1 Country USA Database Access

Location SL: 200 FSL & 990 FWL Sec 2-T16S-R28E BHL: 1

FNL & 990 FWL Sec 2-T16S-R28E **Site**

Slot Name UWI Well Number 1H API

Project MD/TVD Ref KB

Map Zone UTM

Surface X 1900621.5 **Surface Y** 11960005.6

Surface Z 3596

Surface Long Surface Lat Global Z Ref KB

Lat Long Ref

Ground Level 3578.5 Local North Ref Grid

MD*	INC*	AZI*	TVD*	N *	E*	DLS*	V. S.*	MapE*	MapN* S	SysTVD*
*** TIE (at MD	= 1825.00)	doa	ft	ft	ft	°/100ft	ft	ft	ft	ft
1825.00	0.00	0.0	1825.00	0.00	0.00		0.00	1900621.50	11960005.60	1771.00
1850.00	0.00	0.0	1850.00	0.00	0.00	0.00	0.00	1900621.50	11960005.60	1746.00
1900.00	0.00	0.0	1900.00	0.00	0.00	0.00	0.00	1900621.50	11960005.60	1696.00
*** KOP 8 DEG	REE (at MI		00)							
1925.00	0.00	0.0	1925.00	0.00	0.00	0.00	0.00	1900621.50	11960005.60	1671.00
1950.00	2.00	359.7	1949.99	0.44	0.00	8.00	0.44	1900621.50	11960006.04	1646.01
2000.00	6.00	359.7	1999.86	3.92	-0.02	8.00	3.92	1900621.48	11960009.52	1596.14
2050.00	10.00	359.7	2049.37	10.88	-0.06	8.00	10.88	1900621.44	11960016.48	1546.63
2100.00	14.00	359.7	2098.26	21.27	-0.13	8.00	21.27	1900621.37	11960026.87	1497.74
2150.00	18.00	359.7	2146.32	35.05	-0.21	8.00	35.05	1900621.29	11960040.65	1449.68
2200.00	22.00	359.7	2193.29	52.15	-0.31	8.00	52.15	1900621.19	11960057.75	1402.71
2250.00	26.00	359.7	2238.96	72.48	-0.43	8.00	72.48	1900621.07	11960078.08	1357.04
2300.00	30.00	359.7	2283.10	95.95	-0.57	8.00	95.95	1900620.93	11960101.55	1312.90
2350.00	34.00	359.7	2325.49	122.44	-0.73	8.00	122.44	1900620.77	11960128.04	1270.51
2400.00	38.00	359.7	2365.94	151.82	-0.90	8.00	151.83	1900620.60	11960157.42	1230.06
2450.00	42.00	359.7	2404.23	183.96	-1.09	8.00	183.96	1900620.41	11960189.56	1191.77
2500.00	46.00	359.7	2440.19	218.68	-1.30	8.00	218.68	1900620.20	11960224.28	1155.81
2550.00	50.00	359.7	2473.64	255.83	-1.52	8.00	255.83	1900619.98	11960261.43	1122.36
2600.00	54.00	359.7	2504.42	295.22	-1.75	8.00	295.23	1900619.75	11960300.82	1091.58
*** 55 DEGREE	E TANGENT	at MD =								
2612.50	55.00	359.7	2511.67	305.40	-1.81	8.00	305.40	1900619.69	11960311.00	1084.33
2650.00	55.00	359.7	2533.18	336.12	-1.99	0.00	336.12	1900619.51	11960341.72	1062.82
2700.00	55.00	359.7	2561.86	377.07	-2.24	0.00	377.08	1900619.26	11960382.67	1034.14
2750.00	55.00	359.7	2590.54	418.03	-2.48	0.00	418.04	1900619.02	11960423.63	1005.46
2800.00	55.00	359.7	2619.22	458.99	-2.72	0.00	458.99	1900618.78	11960464.59	976.78
*** 10 DEGREE				400.00	-2.12	0.00	400.00	1000010.70	11000404.00	370.70
2812.50	55.00	359.7	2626.39	469.23	-2.78	0.00	469.23	1900618.72	11960474.83	969.61
2850.00	58.75	359.7	2646.88	500.62	-2.97	10.00	500.63	1900618.53	11960506.22	949.12
2900.00	63.75	359.7	2670.92	544.45	-3.23	10.00	544.46	1900618.27	11960550.05	925.08
2950.00	68.75	359.7	2691.05	590.20	-3.50	10.00	590.21	1900618.00	11960595.80	904.95
									11960643.13	
3000.00	73.75	359.7	2707.12	637.53	-3.78	10.00	637.54	1900617.72		888.88
3050.00	78.75	359.7	2719.00	686.08	-4.07	10.00	686.09	1900617.43	11960691.68	877.00
3100.00	83.75	359.7	2726.60	735.48	-4.36	10.00	735.49	1900617.14	11960741.08	869.40
3150.00	88.75	359.7	2729.87	785.36	-4.66	10.00	785.37	1900616.84	11960790.96	866.13
*** LANDING P			•							
3175.50	91.30	359.7	2729.86	810.85	-4.81	10.00	810.87	1900616.69	11960816.45	866.14
3200.00	91.30	359.7	2729.30	835.35	-4.96	0.00	835.36	1900616.54	11960840.95	866.70
3250.00	91.30	359.7	2728.17	885.33	-5.25	0.00	885.35	1900616.25	11960890.93	867.83
Page 1 of 5										makinhole.com

Lat Long Ref

Surface Long

Surface Lat

Mission State #1H, Plan 1

OperatorMack Energy CorpUnitsfeet, °/100ft07:27 Friday, October 11, 2024 Page 2 of 5FieldRound TankCountyEddyVertical Section Azimuth359.66Well NameMission State #1HStateNew MexicoSurvey Calculation MethodMinimum Curvature

Map Zone UTM

Surface X 1900621.5

Surface Y 11960005.6

Plan 1 Country USA Database Access

Location SL: 200 FSL & 990 FWL Sec 2-T16S-R28E BHL: 1

FNL & 990 FWL Sec 2-T16S-R28E

Site
Slot Name UWI
Well Number 1H API

Number 1HAPISurface Z 3596Global Z Ref KBProjectMD/TVD Ref KBGround Level 3578.5Local North Ref Grid

DIRECTION										
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* S	SysTVD*
3300.00	91.30	359.7	2727.04	935.32	-5.55	0.00	935.34	1900615.95	11960940.92	868.96
3350.00	91.30	359.7	2725.90	985.31	-5.85	0.00	985.32	1900615.65	11960990.91	870.10
3400.00	91.30	359.7	2724.77	1035.29	-6.14	0.00	1035.31	1900615.36	11961040.89	871.23
3450.00	91.30	359.7	2723.63	1085.28	-6.44	0.00	1085.30	1900615.06	11961090.88	872.37
3500.00	91.30	359.7	2722.50	1135.26	-6.74	0.00	1135.28	1900614.76	11961140.86	873.50
3550.00	91.30	359.7	2721.36	1185.25	-7.03	0.00	1185.27	1900614.47	11961190.85	874.64
3600.00	91.30	359.7	2720.23	1235.24	-7.33	0.00	1235.26	1900614.17	11961240.84	875.77
3650.00	91.30	359.7	2719.10	1285.22	-7.63	0.00	1285.25	1900613.87	11961290.82	876.90
3700.00	91.30	359.7	2717.96	1335.21	-7.92	0.00	1335.23	1900613.58	11961340.81	878.04
3750.00	91.30	359.7	2716.83	1385.20	-8.22	0.00	1385.22	1900613.28	11961390.80	879.17
3800.00	91.30	359.7	2715.69	1435.18	-8.52	0.00	1435.21	1900612.98	11961440.78	880.31
3850.00	91.30	359.7	2714.56	1485.17	-8.81	0.00	1485.19	1900612.69	11961490.77	881.44
3900.00	91.30	359.7	2713.42	1535.15	-9.11	0.00	1535.18	1900612.39	11961540.75	882.58
3950.00	91.30	359.7	2712.29	1585.14	-9.41	0.00	1585.17	1900612.09	11961590.74	883.71
4000.00	91.30	359.7	2711.15	1635.13	-9.70	0.00	1635.16	1900611.80	11961640.73	884.85
4050.00	91.30	359.7	2710.02	1685.11	-10.00	0.00	1685.14	1900611.50	11961690.71	885.98
4100.00	91.30	359.7	2708.89	1735.10	-10.30	0.00	1735.13	1900611.20	11961740.70	887.11
4150.00	91.30	359.7	2707.75	1785.09	-10.59	0.00	1785.12	1900610.91	11961790.69	888.25
4200.00	91.30	359.7	2706.62	1835.07	-10.89	0.00	1835.10	1900610.61	11961840.67	889.38
4250.00	91.30	359.7	2705.48	1885.06	-11.19	0.00	1885.09	1900610.31	11961890.66	890.52
4300.00	91.30	359.7	2704.35	1935.04	-11.48	0.00	1935.08	1900610.02	11961940.64	891.65
4350.00	91.30	359.7	2703.21	1985.03	-11.78	0.00	1985.07	1900609.72	11961990.63	892.79
4400.00	91.30	359.7	2702.08	2035.02	-12.08	0.00	2035.05	1900609.42	11962040.62	893.92
4450.00	91.30	359.7	2700.95	2085.00	-12.37	0.00	2085.04	1900609.13	11962090.60	895.05
4500.00	91.30	359.7	2699.81	2134.99	-12.67	0.00	2135.03	1900608.83	11962140.59	896.19
4550.00	91.30	359.7	2698.68	2184.98	-12.97	0.00	2185.01	1900608.53	11962190.58	897.32
4600.00	91.30	359.7	2697.54	2234.96	-13.26	0.00	2235.00	1900608.24	11962240.56	898.46
4650.00	91.30	359.7	2696.41	2284.95	-13.56	0.00	2284.99	1900607.94	11962290.55	899.59
4700.00	91.30	359.7	2695.27	2334.93	-13.86	0.00	2334.98	1900607.64	11962340.53	900.73
4750.00	91.30	359.7	2694.14	2384.92	-14.15	0.00	2384.96	1900607.35	11962390.52	901.86
4800.00	91.30	359.7	2693.00	2434.91	-14.45	0.00	2434.95	1900607.05	11962440.51	903.00
4850.00	91.30	359.7	2691.87	2484.89	-14.75	0.00	2484.94	1900606.75	11962490.49	904.13
4900.00	91.30	359.7	2690.74	2534.88	-15.04	0.00	2534.92	1900606.46	11962540.48	905.26
4950.00	91.30	359.7	2689.60	2584.87	-15.34	0.00	2584.91	1900606.16	11962590.47	906.40
5000.00	91.30	359.7	2688.47	2634.85	-15.64	0.00	2634.90	1900605.86	11962640.45	907.53
5050.00	91.30	359.7	2687.33	2684.84	-15.93	0.00	2684.89	1900605.57	11962690.44	908.67
5100.00	91.30	359.7	2686.20	2734.82	-16.23	0.00	2734.87	1900605.27	11962740.42	909.80
Page 2 of 5										nakinhole.com

OperatorMack Energy CorpUnitsfeet, °/100ft07:27 Friday, October 11, 2024 Page 3 of 5FieldRound TankCountyEddyVertical Section Azimuth359.66Well NameMission State #1HStateNew MexicoSurvey Calculation MethodMinimum CurvaturePlan1CountryUSADatabaseAccess

Location SL: 200 FSL & 990 FWL Sec 2-T16S-R28E BHL: 1

FNL & 990 FWL Sec 2-T16S-R28E

Site
Slot Name UWI
Well Number 1H API

Project MD/TVD Ref KB

Map Zone UTM

Surface X 1900621.5 **Surface Y** 11960005.6

Surface Z 3596 Ground Level 3578.5 Lat Long Ref

Surface Long
Surface Lat
Global Z Ref KB

Local North Ref Grid

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* S	SysTVD*
5150.00	91.30	359.7	2685.06	2784.81	-16.53	0.00	2784.86	1900604.97	11962790.41	910.94
5200.00	91.30	359.7	2683.93	2834.80	-16.82	0.00	2834.85	1900604.68	11962840.40	912.07
5250.00	91.30	359.7	2682.80	2884.78	-17.12	0.00	2884.83	1900604.38	11962890.38	913.20
5300.00	91.30	359.7	2681.66	2934.77	-17.42	0.00	2934.82	1900604.08	11962940.37	914.34
5350.00	91.30	359.7	2680.53	2984.76	-17.71	0.00	2984.81	1900603.79	11962990.36	915.47
5400.00	91.30	359.7	2679.39	3034.74	-18.01	0.00	3034.80	1900603.49	11963040.34	916.61
5450.00	91.30	359.7	2678.26	3084.73	-18.31	0.00	3084.78	1900603.19	11963090.33	917.74
5500.00	91.30	359.7	2677.12	3134.71	-18.60	0.00	3134.77	1900602.90	11963140.31	918.88
5550.00	91.30	359.7	2675.99	3184.70	-18.90	0.00	3184.76	1900602.60	11963190.30	920.01
5600.00	91.30	359.7	2674.86	3234.69	-19.20	0.00	3234.74	1900602.30	11963240.29	921.14
5650.00	91.30	359.7	2673.72	3284.67	-19.49	0.00	3284.73	1900602.01	11963290.27	922.28
5700.00	91.30	359.7	2672.59	3334.66	-19.79	0.00	3334.72	1900601.71	11963340.26	923.41
5750.00	91.30	359.7	2671.45	3384.65	-20.09	0.00	3384.71	1900601.41	11963390.25	924.55
5800.00	91.30	359.7	2670.32	3434.63	-20.38	0.00	3434.69	1900601.12	11963440.23	925.68
5850.00	91.30	359.7	2669.18	3484.62	-20.68	0.00	3484.68	1900600.82	11963490.22	926.82
5900.00	91.30	359.7	2668.05	3534.60	-20.98	0.00	3534.67	1900600.53	11963540.20	927.95
5950.00	91.30	359.7	2666.91	3584.59	-21.27	0.00	3584.65	1900600.23	11963590.19	929.09
6000.00	91.30	359.7	2665.78	3634.58	-21.57	0.00	3634.64	1900599.93	11963640.18	930.22
6050.00	91.30	359.7	2664.65	3684.56	-21.86	0.00	3684.63	1900599.64	11963690.16	931.35
6100.00	91.30	359.7	2663.51	3734.55	-22.16	0.00	3734.62	1900599.34	11963740.15	932.49
6150.00	91.30	359.7	2662.38	3784.54	-22.46	0.00	3784.60	1900599.04	11963790.14	933.62
6200.00	91.30	359.7	2661.24	3834.52	-22.75	0.00	3834.59	1900598.75	11963840.12	934.76
6250.00	91.30	359.7	2660.11	3884.51	-23.05	0.00	3884.58	1900598.45	11963890.11	935.89
6300.00	91.30	359.7	2658.97	3934.49	-23.35	0.00	3934.56	1900598.15	11963940.09	937.03
6350.00	91.30	359.7	2657.84	3984.48	-23.64	0.00	3984.55	1900597.86	11963990.08	938.16
6400.00	91.30	359.7	2656.71	4034.47	-23.94	0.00	4034.54	1900597.56	11964040.07	939.29
6450.00	91.30	359.7	2655.57	4084.45	-24.24	0.00	4084.52	1900597.26	11964090.05	940.43
6500.00	91.30	359.7	2654.44	4134.44	-24.53	0.00	4134.51	1900596.97	11964140.04	941.56
6550.00	91.30	359.7	2653.30	4184.43	-24.83	0.00	4184.50	1900596.67	11964190.03	942.70
6600.00	91.30	359.7	2652.17	4234.41	-25.13	0.00	4234.49	1900596.37	11964240.01	943.83
6650.00	91.30	359.7	2651.03	4284.40	-25.42	0.00	4284.47	1900596.08	11964290.00	944.97
6700.00	91.30	359.7	2649.90	4334.38	-25.72	0.00	4334.46	1900595.78	11964339.98	946.10
6750.00	91.30	359.7	2648.76	4384.37	-26.02	0.00	4384.45	1900595.48	11964389.97	947.24
6800.00	91.30	359.7	2647.63	4434.36	-26.31	0.00	4434.43	1900595.19	11964439.96	948.37
6850.00	91.30	359.7	2646.50	4484.34	-26.61	0.00	4484.42	1900594.89	11964489.94	949.50
6900.00	91.30	359.7	2645.36	4534.33	-26.91	0.00	4534.41	1900594.59	11964539.93	950.64
6950.00	91.30	359.7	2644.23	4584.32	-27.20	0.00	4584.40	1900594.30	11964589.92	951.77
Page 3 of 5					SES v5	70			MANAGA P	makinhole com

Units feet, °/100ft 07:27 Friday, October 11, 2024 Page 4 of 5 **Operator** Mack Energy Corp County Eddy Field Round Tank Vertical Section Azimuth 359.66 Well Name Mission State #1H State New Mexico **Survey Calculation Method** Minimum Curvature Plan 1 **Country** USA **Database** Access

Location SL: 200 FSL & 990 FWL Sec 2-T16S-R28E BHL: 1

FNL & 990 FWL Sec 2-T16S-R28E

Site UWI **Slot Name** Well Number 1H API

> **Project** MD/TVD Ref KB

Map Zone UTM

Surface X 1900621.5 **Surface Y** 11960005.6 Surface Z 3596

Ground Level 3578.5

Lat Long Ref

Surface Long Surface Lat Global Z Ref KB

Local North Ref Grid

DIDECTIONAL	VA/EII	DI ANI

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	-	SysTVD*
7000.00	91.30	359.7	2643.09	4634.30	-27.50	0.00	4634.38	1900594.00	11964639.90	952.91
7050.00	91.30	359.7	2641.96	4684.29	-27.80	0.00	4684.37	1900593.70	11964689.89	954.04
7100.00	91.30	359.7	2640.82	4734.27	-28.09	0.00	4734.36	1900593.41	11964739.87	955.18
7150.00	91.30	359.7	2639.69	4784.26	-28.39	0.00	4784.34	1900593.11	11964789.86	956.31
7200.00	91.30	359.7	2638.56	4834.25	-28.69	0.00	4834.33	1900592.81	11964839.85	957.44
7250.00	91.30	359.7	2637.42	4884.23	-28.98	0.00	4884.32	1900592.52	11964889.83	958.58
7300.00	91.30	359.7	2636.29	4934.22	-29.28	0.00	4934.31	1900592.22	11964939.82	959.71
7350.00	91.30	359.7	2635.15	4984.21	-29.58	0.00	4984.29	1900591.92	11964989.81	960.85
7400.00	91.30	359.7	2634.02	5034.19	-29.87	0.00	5034.28	1900591.63	11965039.79	961.98
7450.00	91.30	359.7	2632.88	5084.18	-30.17	0.00	5084.27	1900591.33	11965089.78	963.12
7500.00	91.30	359.7	2631.75	5134.16	-30.47	0.00	5134.25	1900591.03	11965139.76	964.25
7550.00	91.30	359.7	2630.61	5184.15	-30.76	0.00	5184.24	1900590.74	11965189.75	965.39
7600.00	91.30	359.7	2629.48	5234.14	-31.06	0.00	5234.23	1900590.44	11965239.74	966.52
7650.00	91.30	359.7	2628.35	5284.12	-31.36	0.00	5284.22	1900590.14	11965289.72	967.65
7700.00	91.30	359.7	2627.21	5334.11	-31.65	0.00	5334.20	1900589.85	11965339.71	968.79
7750.00	91.30	359.7	2626.08	5384.10	-31.95	0.00	5384.19	1900589.55	11965389.70	969.92
7800.00	91.30	359.7	2624.94	5434.08	-32.25	0.00	5434.18	1900589.25	11965439.68	971.06
7850.00	91.30	359.7	2623.81	5484.07	-32.54	0.00	5484.16	1900588.96	11965489.67	972.19
7900.00	91.30	359.7	2622.67	5534.05	-32.84	0.00	5534.15	1900588.66	11965539.65	973.33
7950.00	91.30	359.7	2621.54	5584.04	-33.14	0.00	5584.14	1900588.36	11965589.64	974.46
8000.00	91.30	359.7	2620.41	5634.03	-33.43	0.00	5634.13	1900588.07	11965639.63	975.59
8050.00	91.30	359.7	2619.27	5684.01	-33.73	0.00	5684.11	1900587.77	11965689.61	976.73
8100.00	91.30	359.7	2618.14	5734.00	-34.03	0.00	5734.10	1900587.47	11965739.60	977.86
8150.00	91.30	359.7	2617.00	5783.99	-34.32	0.00	5784.09	1900587.18	11965789.59	979.00
8200.00	91.30	359.7	2615.87	5833.97	-34.62	0.00	5834.07	1900586.88	11965839.57	980.13
8250.00	91.30	359.7	2614.73	5883.96	-34.92	0.00	5884.06	1900586.58	11965889.56	981.27
8300.00	91.30	359.7	2613.60	5933.94	-35.21	0.00	5934.05	1900586.29	11965939.54	982.40
8350.00	91.30	359.7	2612.46	5983.93	-35.51	0.00	5984.04	1900585.99	11965989.53	983.54
8400.00	91.30	359.7	2611.33	6033.92	-35.81	0.00	6034.02	1900585.69	11966039.52	984.67
8450.00	91.30	359.7	2610.20	6083.90	-36.10	0.00	6084.01	1900585.40	11966089.50	985.80
8500.00	91.30	359.7	2609.06	6133.89	-36.40	0.00	6134.00	1900585.10	11966139.49	986.94
8550.00	91.30	359.7	2607.93	6183.88	-36.70	0.00	6183.98	1900584.80	11966189.48	988.07
8600.00	91.30	359.7	2606.79	6233.86	-36.99	0.00	6233.97	1900584.51	11966239.46	989.21
8650.00	91.30	359.7	2605.66	6283.85	-37.29	0.00	6283.96	1900584.21	11966289.45	990.34
8700.00	91.30	359.7	2604.52	6333.83	-37.59	0.00	6333.95	1900583.91	11966339.43	991.48
8750.00	91.30	359.7	2603.39	6383.82	-37.88	0.00	6383.93	1900583.62	11966389.42	992.61
8800.00	91.30	359.7	2602.26	6433.81	-38.18	0.00	6433.92	1900583.32	11966439.41	993.74

OperatorMack Energy CorpUnitsfeet, °/100ft07:27 Friday, October 11, 2024 Page 5 of 5FieldRound TankCountyEddyVertical Section Azimuth359.66

Well Name Mission State #1H State New Mexico Survey Calculation Method Minimum Curvature
Plan 1 Country USA Database Access

Location SL: 200 FSL & 990 FWL Sec 2-T16S-R28E BHL: 1 Map Zone UTM Lat Long Ref

FNL & 990 FWL Sec 2-T16S-R28E

 Site
 Surface X 1900621.5
 Surface Long

 Slot Name
 UWI
 Surface Y 11960005.6
 Surface Lat

 Well Number 1H
 API
 Surface Z 3596
 Global Z Ref KB

 Project
 MD/TVD Ref KB
 Ground Level 3578.5
 Local North Ref Grid

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* \$	SysTVD*
8850.00	91.30	359.7	2601.12	6483.79	-38.48	0.00	6483.91	1900583.02	11966489.39	994.88
8900.00	91.30	359.7	2599.99	6533.78	-38.77	0.00	6533.89	1900582.73	11966539.38	996.01
8950.00	91.30	359.7	2598.85	6583.77	-39.07	0.00	6583.88	1900582.43	11966589.37	997.15
9000.00	91.30	359.7	2597.72	6633.75	-39.37	0.00	6633.87	1900582.13	11966639.35	998.28
9050.00	91.30	359.7	2596.58	6683.74	-39.66	0.00	6683.86	1900581.84	11966689.34	999.42
9100.00	91.30	359.7	2595.45	6733.72	-39.96	0.00	6733.84	1900581.54	11966739.32	1000.55
9150.00	91.30	359.7	2594.32	6783.71	-40.26	0.00	6783.83	1900581.24	11966789.31	1001.69
9200.00	91.30	359.7	2593.18	6833.70	-40.55	0.00	6833.82	1900580.95	11966839.30	1002.82
9250.00	91.30	359.7	2592.05	6883.68	-40.85	0.00	6883.80	1900580.65	11966889.28	1003.95
9300.00	91.30	359.7	2590.91	6933.67	-41.15	0.00	6933.79	1900580.35	11966939.27	1005.09
*** TD (at MD	= 9333.50)									
9333.50	91.30	359.7	2590.15	6967.16	-41.34	0.00	6967.28	1900580.16	11966972.76	1005.85

I. Operator: Mack Energy Corporation

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Date: 10 /08 /2024

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

OGRID: 013837

II. Type: ☑ Original □	Amendment	due to □ 19.15.27.9	0.D(6)(a) NMA	C □ 19.15.27.9.D	(6)(b) NMAC	□ Other.	
If Other, please describe	:						
III. Well(s): Provide the be recompleted from a s					wells propos	ed to be dri	lled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipat Gas MCF		Anticipated roduced Water BBL/D
Mission State 1H		M Sec 2 T16S R28	E 200 FSL 990 FWL	100	100	1,00	0
V. Anticipated Schedul proposed to be recomple Well Name	le: Provide the	following informati	on for each nev	v or recompleted v	vell or set of		_
Mission State 1H							
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.

Departor 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	Available Maximum Daily Capacity
			Start Date	of System Segment Tie-in

XI. Map. \square 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 🗆 w	vill □ will not have	capacity to gather	100% of the anticipated	natural gas
production volume from the well p	prior to the date of first pro	oduction.			

XIII. Line Pressure. Operator \square does \square 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 we	ll(s).

_									
1 1	Attach (Onaratar	'a nlan	to monogo	nroduction	in recnance	to the inc	creased line p	raccure

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.

(h)

(i)

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: power generation on lease; (a) power generation for grid; (b) (c) compression on lease; (d) liquids removal on lease; reinjection for underground storage; (e) **(f)** reinjection for temporary storage; **(g)** reinjection for enhanced oil recovery;

Section 4 - Notices

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

other alternative beneficial uses approved by the division.

fuel cell production; and

- (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:	
Printed Name:	Delilah Flores
Title:	Regulatory Technician I
E-mail Address:	delilah@mec.com
Date:	10/28/2024
Phone:	575-748-1288
	OIL CONSERVATION DIVISION
	(Only applicable when submitted as a standalone form)
Approved By:	
Title:	
Approval Date:	
Conditions of A ₁	pproval:

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:

- 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 o 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 \circ 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 o 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.