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

Phone: (505) 629-6116

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

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

Form C-101 August 1, 2011

Permit 376110

		APPLICA	ATION FOR PERM	IT TO DRILL, I	RE-ENTER, DEE	PEN, PLUGBA	CK, OR ADD A Z	ONE		
Operator Nan MAC	ne and Address K ENERGY COR	P					2. 0	GRID Number 13837		
P.O. Box 960 Artesia, NM 882110960									3. API Number 30-015-55772	
4. Property Cod 3365			5. Property Name Mission Sta	6. W	6. Well No. 002H					
				7. :	Surface Location					
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County	
N	2	16	S 28E		200	S	2310	W	Ec	ddy
8. Proposed Bottom Hole Location										
III - Lot	Section	Townshin	Range	Lot Idn	Feet From	N/S Line	Feet From	F/W Line	County	

9. Pool Information

ROLIND TANK:SAN ANDRES	52770

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation	
New Well	OIL		State	3563	
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date	
N	9461	San Andres		4/1/2025	
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water	

${\ensuremath{\overline{\boxtimes}}}$ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	250	300	0
Int1	12.25	9.625	36	1200	660	0
Prod	8.75	7	26	2950	200	0
Prod	8.75	5.5	17	9461	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 9,461', run 7" csg 0-2,950', run 5 1/2" csg 2,950' - 9,461' and cmt. Put well on production.

22. Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000	3000	

knowledge and be		rue and complete to the best of my MAC ⊠ and/or 19.15.14.9 (B) NMAC		OIL CONSERVATION	ON DIVISION	
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:	10/31/2024	Phone: 575-748-1288	Conditions of Approval Attached			

Revised July 9, 2024

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION Submit Electronically

6 1 to 1	☐ Initial Submittal
Submittal Type:	☐ Amended Report
7 1	☐ As Drilled

Via OC	D Permitting	•						G 1 1 1 1	☐ Initial Subn	nittal	
							Submittal Type:	☐ Amended B	Report		
								-71	☐ As Drilled		
	WELL LOCATION INFORMATION										
API N		5-55772	Pool Code	52770		Pool Name Rou	ınd Tank; S	an Andr	es		
Proper	ty Code 33652		Property N	Jame	SSION STAT	Е			Well Number	2H	
OGRII	O No. 138	37	Operator N	Jame MA	ACK ENERGY	Y CORPORATION			Ground Level Elevation	3562.9	
Surfac	e Owner: 🗆 S	State □Fee □T	ribal Feder	ral		Mineral Owner	: State Fee	Tribal □Fed	eral		
						•					
	1					rface Location				ı	
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W			gitude	County	
N	2	16 S	28 E		200 SOUTH	H 2310 WEST	2310 WEST 32.9461124°N		.1476330°W	EDDY	
Bottom Hole Location								1			
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Ft. from E/W Latitude Lon		gitude	County	
	2	16 S	28 E	3	1 NORTH	2310 WEST	EST 32.9652872°N 104		.1477299°W	EDDY	
		1				.					
Dedica	ited Acres	Infill or Defi	ning Well	Definin	ig Well API	Overlapping Spacing Unit (Y/N) Consolidation Code					
Order 1	Numbers.					Well setbacks are under Common Ownership: □Yes □No					
						1					
		1				Off Point (KOP)	T			T	
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	_	gitude	County	
N	2	16 S	28 E		200 SOUTH	H 2310 WEST	32.9461124°	N 104	.1476330°W	EDDY	
	•				First	Take Point (FTP)	1	,		1	
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W			gitude	County	
N	2	16 S	28 E		100 SOUTH	H 2310 WEST			.1477285°W	EDDY	
Last Take Point (LTP)							1				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Long	gitude	County	
	2	16 S	28 E	3	100 NORTI	H 2310 WEST	32.9650047°	N 104	.1520313°W	EDDY	
	•		-		•			•		•	
Unitize	ed Area or A	rea of Uniform	Interest	Spacing	g Unit Type □Ho	e □Horizontal □Vertical Ground Floor Elevation:					

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best ofmy 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.

10/28/2024

Signature

Delilah Flores

Printed Name

delilah@mec.com

Email Address

SURVEYOR CERTIFICATIONS

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

Signature and Seal of Professional Survey FILIMON F. JARAMILLO

CertificateNumber Dateof Survey

PLS 12797

SEPTEMBER 12, 2024

SURVEY NO. 10257

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.

L

NO0'21'03"W 4498.77

 \oplus L

NO0'20'17"W 2671.40

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.

NAD 83 NMSP EAST SURFACE LOCATION 200' FSL, 2310' FWL N.=707981.04 E.=598303.50 LAT.=32.9461124°N (B) A N89°44'07"E 2603.34 N89°42'41"E 2602.61 FT © LONG.=104.1476330°W 2310 — BOTTOM KICK OFF POINT L3 L2 | L1 L4 OF HOLE 200' FSL, 2310' FWL LTP L5 L6 L7 | L8 N.=707981.04 E.=598303.50 LAT.=32.9461124°N LONG.=104.1476330°W ᇤ .66 LAST TAKE POINT 4517. 100' FNL, 2310' FWL N.=714858.28 E.=598262.07 لىإ LAT.=32.9650152°N 4 LONG.=104.1477285°W 27, SEC. L10 L9 L11 L12 L13 L15 L16 L14

0

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2672.73

لبا

S00'25'59'

V051880002

200

FTP

(F)

S89°55'53"W

2608.89

SURFACE

LOCATION

2609.68

2310'

'W

© S89°57'31

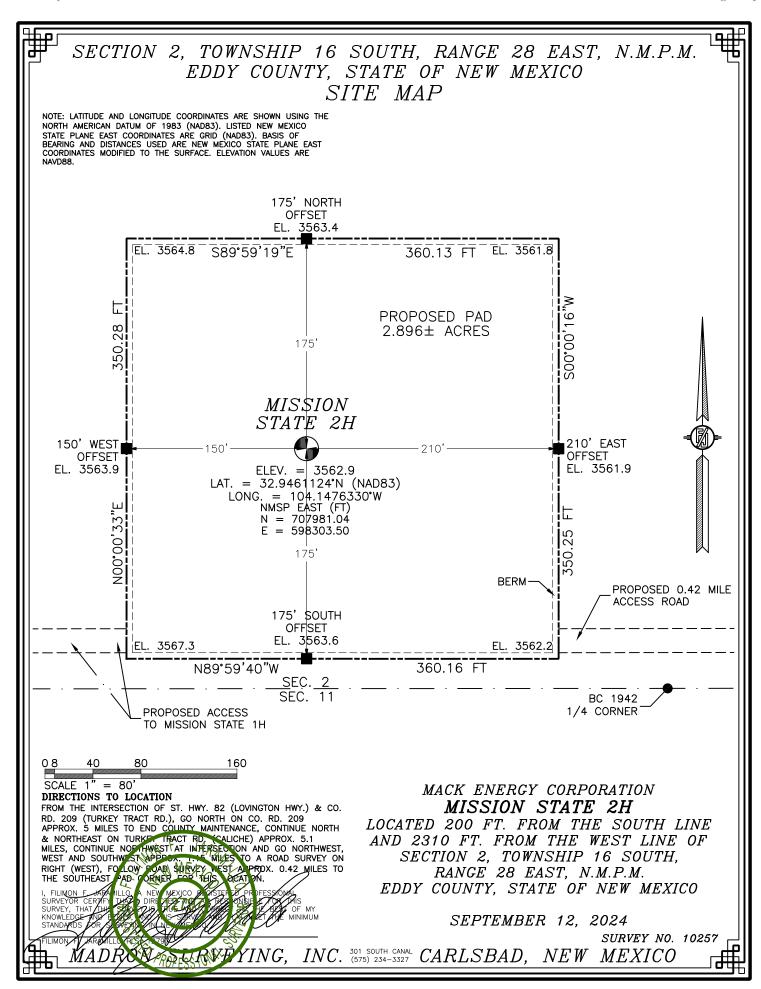
FIRST TAKE POINT 100' FSL, 2310' FWL N.=707881.05 E.=598304.20 LAT.=32.9458375°N LONG.=104.1476313°W BOTTOM OF HOLE FNL, 2310' FWL N.=714957.26 E.=598261.46 LAT.=32.9652872°N

LONG.=104.1477299°W

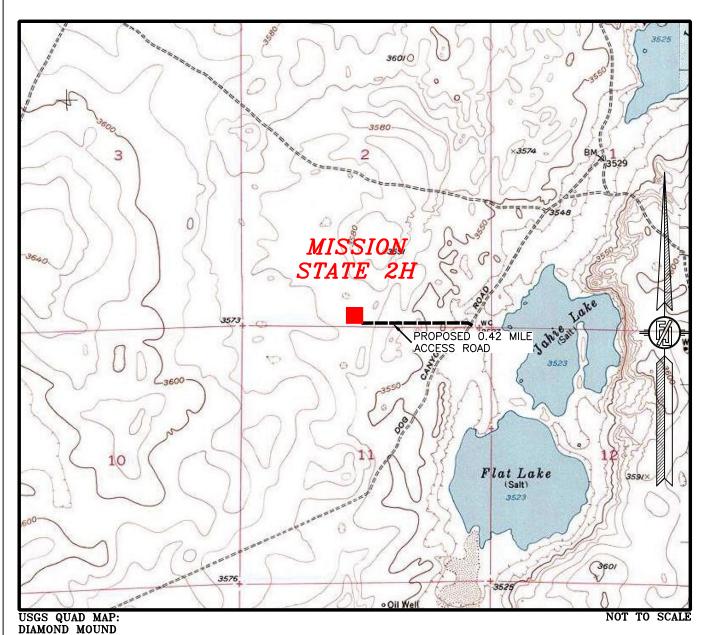
MISSION STATE 2H EL. = 3562.9GEODETIC COORDINATES

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

LEGEND SECTION LINE QUARTER LINE LEASE LINE WELL PATH



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 2H

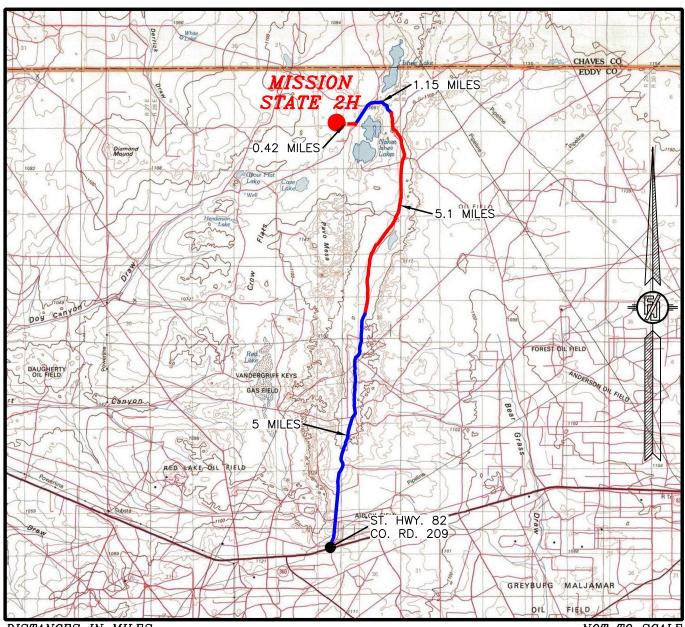
LOCATED 200 FT. FROM THE SOUTH LINE AND 2310 FT. FROM THE WEST LINE OF SECTION 2, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

SEPTEMBER 12, 2024

SURVEY NO. 10257

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 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. 0.42 MILES TO THE SOUTHEAST PAD CORNER FOR THIS LOCATION.

MACK ENERGY CORPORATION
MISSION STATE 2H

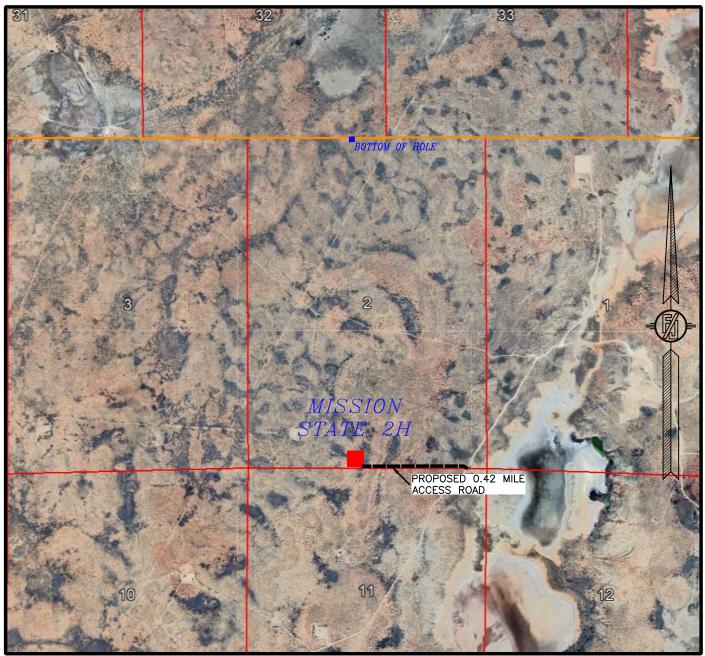
LOCATED 200 FT. FROM THE SOUTH LINE AND 2310 FT. FROM THE WEST LINE OF SECTION 2, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

SEPTEMBER 12, 2024

SURVEY NO. 10257

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 2H

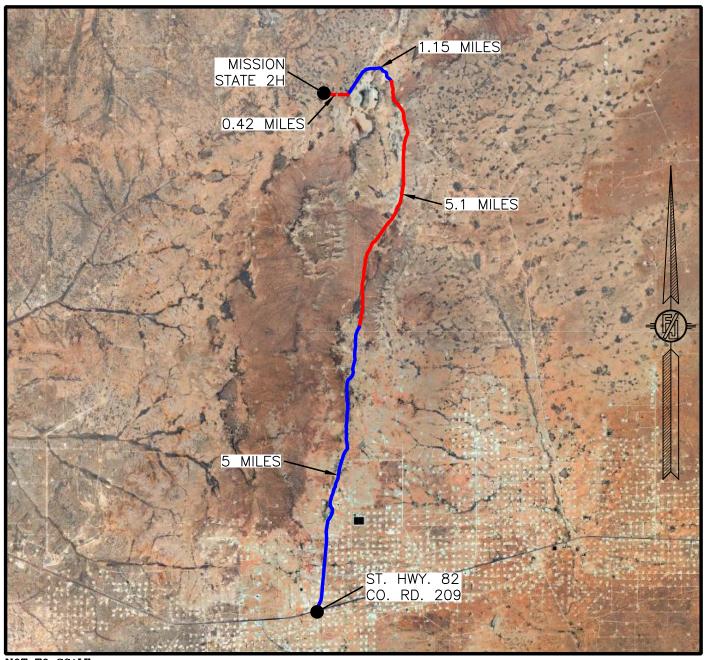
LOCATED 200 FT. FROM THE SOUTH LINE AND 2310 FT. FROM THE WEST LINE OF SECTION 2, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

SEPTEMBER 12, 2024

SURVEY NO. 10257

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 2H

LOCATED 200 FT. FROM THE SOUTH LINE AND 2310 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. 10257

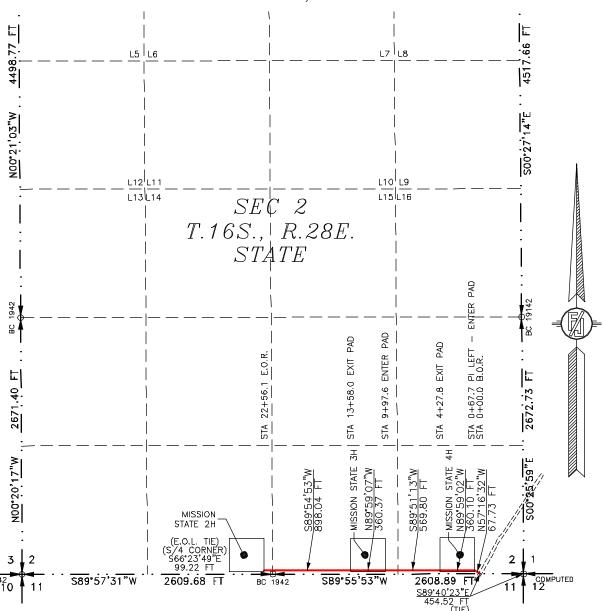
 $MADRON \ \ SURVEYING, \ \ INC. \ {\tiny 5075} \ {\tiny 234-3327} \ \ CARLSBAD, \ \ NEW \ \ MEXICO$

ACCESS ROAD PLAT

ACCESS ROAD FOR MISSION STATE 2H

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. 301 S



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.

301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234–3327

SURVEY NO. 10257 NEW MEXICO -

Released to Imaging: 11/21/2024 8:09:54 AM

ACCESS ROAD PLAT

ACCESS ROAD FOR MISSION STATE 2H

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 THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTH QUARTER CORNER OF SAID SECTION 2, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS S66*23'49"E, A DISTANCE OF 99.22 FEET;

SAID STRIP OF LAND BEING 2256.04 FEET OR 136.73 RODS IN LENGTH, CONTAINING 1.554 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SE/4 SE/4 860.97 L.F. 52.18 RODS 0.593 ACRES SW/4 SE/4 1304.43 L.F. 79.06 RODS 0.898 ACRES SE/4 SW/4 90.64 L.F. 5.49 RODS 0.062 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

MADRON SURVEYING, INC. 301 St. (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.

MATHIS CERTIFICATE IS EXECUTED AT CARLSBAD,

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

SURVEY NO. 10257

BAD, NEW MEXICO

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

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

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

Form APD Conditions

Permit 376110

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
MACK ENERGY CORP [13837]	30-015-55772
P.O. Box 960	Well:
Artesia, NM 882110960	Mission State #002H

OCD	Condition
Reviewer	
ward.rikala	Notify the OCD 24 hours prior to casing & cement.
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.
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.

OperatorMack Energy CorpUnitsfeet, °/100ft08:03 Friday, October 11, 2024 Page 1 of 5FieldRound TankCountyEddyVertical Section Azimuth359.66

Well Name Mission State #2H State New Mexico Survey Calculation Method Minimum Curvature
Plan 1 Country USA Database Access

Location SL: 200 FSL & 2310 FWL Sec 2-T16S-R28E BHL: 1 Map Zone UTM Lat Long Ref

FNL & 2310 FWL Sec 2-T15S-R28E

 Site
 Surface X 1901941.6
 Surface Long

 Slot Name
 UWI
 Surface Y 11960000.8
 Surface Lat

 Well Number 2H
 API
 Surface Z 3580.4
 Global Z Ref KB

Project MD/TVD Ref KB Ground Level 3562.9 Local North Ref Grid

DIRECTIONAL WELL PLAN

BIREOTIGIE										
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* S	SysTVD*
*** TIE (at MD	= 1925.00)	doa	**	**	**	°/1∩∩ft	**	++	++	++
1925.00	0.00	0.0	1925.00	0.00	0.00		0.00	1901941.60	11960000.80	1655.40
1950.00	0.00	0.0	1950.00	0.00	0.00	0.00	0.00	1901941.60	11960000.80	1630.40
2000.00	0.00	0.0	2000.00	0.00	0.00	0.00	0.00	1901941.60	11960000.80	1580.40
*** KOP 8 DEG	REE (at M	D = 2025.0	00)							
2025.00	0.00	0.0	2025.00	0.00	0.00	0.00	0.00	1901941.60	11960000.80	1555.40
2050.00	2.00	359.7	2049.99	0.44	0.00	8.00	0.44	1901941.60	11960001.24	1530.41
2100.00	6.00	359.7	2099.86	3.92	-0.02	8.00	3.92	1901941.58	11960004.72	1480.54
2150.00	10.00	359.7	2149.37	10.88	-0.06	8.00	10.88	1901941.54	11960011.68	1431.03
2200.00	14.00	359.7	2198.26	21.27	-0.13	8.00	21.27	1901941.47	11960022.07	1382.14
2250.00	18.00	359.7	2246.32	35.05	-0.21	8.00	35.05	1901941.39	11960035.85	1334.08
2300.00	22.00	359.7	2293.29	52.15	-0.31	8.00	52.15	1901941.29	11960052.95	1287.11
2350.00	26.00	359.7	2338.96	72.48	-0.43	8.00	72.48	1901941.17	11960073.28	1241.44
2400.00	30.00	359.7	2383.10	95.95	-0.57	8.00	95.95	1901941.03	11960096.75	1197.30
2450.00	34.00	359.7	2425.49	122.44	-0.73	8.00	122.44	1901940.87	11960123.24	1154.91
2500.00	38.00	359.7	2465.94	151.82	-0.90	8.00	151.83	1901940.70	11960152.62	1114.46
2550.00	42.00	359.7	2504.23	183.96	-1.09	8.00	183.96	1901940.51	11960184.76	1076.17
2600.00	46.00	359.7	2540.19	218.68	-1.30	8.00	218.68	1901940.30	11960219.48	1040.21
2650.00	50.00	359.7	2573.64	255.83	-1.52	8.00	255.83	1901940.08	11960256.63	1006.76
2700.00	54.00	359.7	2604.42	295.22	-1.75	8.00	295.23	1901939.85	11960296.02	975.98
*** 55 DEGRE	E TANGEN	T (at MD =	2712.50)							
2712.50	55.00	359.7	2611.67	305.40	-1.81	8.00	305.40	1901939.79	11960306.20	968.73
2750.00	55.00	359.7	2633.18	336.12	-1.99	0.00	336.12	1901939.61	11960336.92	947.22
2800.00	55.00	359.7	2661.86	377.07	-2.24	0.00	377.08	1901939.36	11960377.87	918.54
2850.00	55.00	359.7	2690.54	418.03	-2.48	0.00	418.04	1901939.12	11960418.83	889.86
2900.00	55.00	359.7	2719.22	458.99	-2.72	0.00	458.99	1901938.88	11960459.79	861.18
*** 10 DEGREI										
2912.50	55.00	359.7	2726.39	469.23	-2.78	0.00	469.23	1901938.82	11960470.03	854.01
2950.00	58.75	359.7	2746.88	500.62	-2.97	10.00	500.63	1901938.63	11960501.42	833.52
3000.00	63.75	359.7	2770.92	544.45	-3.23	10.00	544.46	1901938.37	11960545.25	809.48
3050.00	68.75	359.7	2791.05	590.20	-3.50	10.00	590.21	1901938.10	11960591.00	789.35
3100.00	73.75	359.7	2807.12	637.53	-3.78	10.00	637.54	1901937.82	11960638.33	773.28
3150.00	78.75	359.7	2819.00	686.08	-4.07	10.00	686.09	1901937.53	11960686.88	761.40
3200.00	83.75	359.7	2826.60	735.48	-4.36	10.00	735.49	1901937.24	11960736.28	753.80
3250.00	88.75	359.7	2829.87	785.36	-4.66	10.00	785.37	1901936.94	11960786.16	750.53
*** LANDING F	POINT (at N	/ID = 3272.	50)							
3272.50	91.00	359.7	2829.92	807.85	-4.79	10.00	807.87	1901936.81	11960808.65	750.48
3300.00	91.00	359.7	2829.44	835.35	-4.96	0.00	835.36	1901936.64	11960836.15	750.96
3350.00	91.00	359.7	2828.57	885.34	-5.25	0.00	885.36	1901936.35	11960886.14	751.83
Page 1 of 5										makinhole.com

Lat Long Ref

Mission State #2H, Plan 1

Units feet, °/100ft 08:03 Friday, October 11, 2024 Page 2 of 5 **Operator** Mack Energy Corp Field Round Tank County Eddy Vertical Section Azimuth 359.66 Well Name Mission State #2H State New Mexico **Survey Calculation Method** Minimum Curvature

Map Zone UTM

Plan 1 **Country** USA **Database** Access

Location SL: 200 FSL & 2310 FWL Sec 2-T16S-R28E BHL: 1 FNL & 2310 FWL Sec 2-T15S-R28E

Site

Surface X 1901941.6 **Surface Long Surface Y** 11960000.8 UWI **Slot Name Surface Lat** Well Number 2H API **Surface Z** 3580.4 Global Z Ref KB

Project MD/TVD Ref KB Ground Level 3562.9 Local North Ref Grid

DIDECTIONAL	WELL	DIAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* S	SysTVD*
3400.00	91.00	359.7	2827.70	935.33	-5.55	0.00	935.35	1901936.05	11960936.13	752.70
3450.00	91.00	359.7	2826.82	985.32	-5.85	0.00	985.34	1901935.75	11960986.12	753.58
3500.00	91.00	359.7	2825.95	1035.32	-6.14	0.00	1035.33	1901935.46	11961036.12	754.45
3550.00	91.00	359.7	2825.08	1085.31	-6.44	0.00	1085.33	1901935.16	11961086.11	755.32
3600.00	91.00	359.7	2824.21	1135.30	-6.74	0.00	1135.32	1901934.86	11961136.10	756.20
3650.00	91.00	359.7	2823.33	1185.29	-7.03	0.00	1185.31	1901934.57	11961186.09	757.07
3700.00	91.00	359.7	2822.46	1235.28	-7.33	0.00	1235.30	1901934.27	11961236.08	757.94
3750.00	91.00	359.7	2821.59	1285.27	-7.63	0.00	1285.30	1901933.97	11961286.07	758.81
3800.00	91.00	359.7	2820.71	1335.26	-7.92	0.00	1335.29	1901933.68	11961336.06	759.69
3850.00	91.00	359.7	2819.84	1385.26	-8.22	0.00	1385.28	1901933.38	11961386.06	760.56
3900.00	91.00	359.7	2818.97	1435.25	-8.52	0.00	1435.27	1901933.08	11961436.05	761.43
3950.00	91.00	359.7	2818.10	1485.24	-8.81	0.00	1485.27	1901932.79	11961486.04	762.30
4000.00	91.00	359.7	2817.22	1535.23	-9.11	0.00	1535.26	1901932.49	11961536.03	763.18
4050.00	91.00	359.7	2816.35	1585.22	-9.41	0.00	1585.25	1901932.19	11961586.02	764.05
4100.00	91.00	359.7	2815.48	1635.21	-9.70	0.00	1635.24	1901931.90	11961636.01	764.92
4150.00	91.00	359.7	2814.61	1685.21	-10.00	0.00	1685.23	1901931.60	11961686.01	765.79
4200.00	91.00	359.7	2813.73	1735.20	-10.30	0.00	1735.23	1901931.30	11961736.00	766.67
4250.00	91.00	359.7	2812.86	1785.19	-10.59	0.00	1785.22	1901931.01	11961785.99	767.54
4300.00	91.00	359.7	2811.99	1835.18	-10.89	0.00	1835.21	1901930.71	11961835.98	768.41
4350.00	91.00	359.7	2811.12	1885.17	-11.19	0.00	1885.20	1901930.41	11961885.97	769.28
4400.00	91.00	359.7	2810.24	1935.16	-11.48	0.00	1935.20	1901930.12	11961935.96	770.16
4450.00	91.00	359.7	2809.37	1985.15	-11.78	0.00	1985.19	1901929.82	11961985.95	771.03
4500.00	91.00	359.7	2808.50	2035.15	-12.08	0.00	2035.18	1901929.52	11962035.95	771.90
4550.00	91.00	359.7	2807.63	2085.14	-12.37	0.00	2085.17	1901929.23	11962085.94	772.77
4600.00	91.00	359.7	2806.75	2135.13	-12.67	0.00	2135.17	1901928.93	11962135.93	773.65
4650.00	91.00	359.7	2805.88	2185.12	-12.97	0.00	2185.16	1901928.63	11962185.92	774.52
4700.00	91.00	359.7	2805.01	2235.11	-13.26	0.00	2235.15	1901928.34	11962235.91	775.39
4750.00	91.00	359.7	2804.13	2285.10	-13.56	0.00	2285.14	1901928.04	11962285.90	776.27
4800.00	91.00	359.7	2803.26	2335.09	-13.86	0.00	2335.14	1901927.74	11962335.89	777.14
4850.00	91.00	359.7	2802.39	2385.09	-14.15	0.00	2385.13	1901927.45	11962385.89	778.01
4900.00	91.00	359.7	2801.52	2435.08	-14.45	0.00	2435.12	1901927.15	11962435.88	778.88
4950.00	91.00	359.7	2800.64	2485.07	-14.75	0.00	2485.11	1901926.85	11962485.87	779.76
5000.00	91.00	359.7	2799.77	2535.06	-15.04	0.00	2535.11	1901926.56	11962535.86	780.63
5050.00	91.00	359.7	2798.90	2585.05	-15.34	0.00	2585.10	1901926.26	11962585.85	781.50
5100.00	91.00	359.7	2798.03	2635.04	-15.64	0.00	2635.09	1901925.96	11962635.84	782.37
5150.00	91.00	359.7	2797.15	2685.04	-15.93	0.00	2685.08	1901925.67	11962685.84	783.25
5200.00	91.00	359.7	2796.28	2735.03	-16.23	0.00	2735.07	1901925.37	11962735.83	784.12

Operator Mack Energy Corp

Field Round Tank

County Eddy

Well Name Mission State #2H

Plan 1

Units feet, °/100ft

County Eddy

Vertical Section Azimuth 359.66

Vertical Section Azimuth 359.66

Survey Calculation Method Minimum Curvature

Database Access

Location SL: 200 FSL & 2310 FWL Sec 2-T16S-R28E BHL: 1

FNL & 2310 FWL Sec 2-T15S-R28E

Site Slot Name UWI

Well Number 2H API

Project MD/TVD Ref KB

Map Zone UTM

Surface X 1901941.6 **Surface Y** 11960000.8

Surface Z 3580.4

Ground Level 3562.9

Lat Long Ref

Surface Long
Surface Lat
Global Z Ref KB

Local North Ref Grid

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* \$	SysTVD*
5250.00	91.00	359.7	2795.41	2785.02	-16.53	°/100ff 0.00	2785.07	1901925.07	11962785.82	784.99
5300.00	91.00	359.7	2794.54	2835.01	-16.82	0.00	2835.06	1901924.78	11962835.81	785.86
5350.00	91.00	359.7	2793.66	2885.00	-17.12	0.00	2885.05	1901924.48	11962885.80	786.74
5400.00	91.00	359.7	2792.79	2934.99	-17.42	0.00	2935.04	1901924.18	11962935.79	787.61
5450.00	91.00	359.7	2791.92	2984.98	-17.71	0.00	2985.04	1901923.89	11962985.78	788.48
5500.00	91.00	359.7	2791.05	3034.98	-18.01	0.00	3035.03	1901923.59	11963035.78	789.35
5550.00	91.00	359.7	2790.17	3084.97	-18.31	0.00	3085.02	1901923.29	11963085.77	790.23
5600.00	91.00	359.7	2789.30	3134.96	-18.60	0.00	3135.01	1901923.00	11963135.76	791.10
5650.00	91.00	359.7	2788.43	3184.95	-18.90	0.00	3185.01	1901922.70	11963185.75	791.97
5700.00	91.00	359.7	2787.56	3234.94	-19.20	0.00	3235.00	1901922.40	11963235.74	792.85
5750.00	91.00	359.7	2786.68	3284.93	-19.49	0.00	3284.99	1901922.11	11963285.73	793.72
5800.00	91.00	359.7	2785.81	3334.92	-19.79	0.00	3334.98	1901921.81	11963335.72	794.59
5850.00	91.00	359.7	2784.94	3384.92	-20.09	0.00	3384.98	1901921.51	11963385.72	795.46
5900.00	91.00	359.7	2784.06	3434.91	-20.38	0.00	3434.97	1901921.22	11963435.71	796.34
5950.00	91.00	359.7	2783.19	3484.90	-20.68	0.00	3484.96	1901920.92	11963485.70	797.21
6000.00	91.00	359.7	2782.32	3534.89	-20.98	0.00	3534.95	1901920.62	11963535.69	798.08
6050.00	91.00	359.7	2781.45	3584.88	-21.27	0.00	3584.95	1901920.33	11963585.68	798.95
6100.00	91.00	359.7	2780.57	3634.87	-21.57	0.00	3634.94	1901920.03	11963635.67	799.83
6150.00	91.00	359.7	2779.70	3684.87	-21.87	0.00	3684.93	1901919.73	11963685.67	800.70
6200.00	91.00	359.7	2778.83	3734.86	-22.16	0.00	3734.92	1901919.44	11963735.66	801.57
6250.00	91.00	359.7	2777.96	3784.85	-22.46	0.00	3784.91	1901919.14	11963785.65	802.44
6300.00	91.00	359.7	2777.08	3834.84	-22.76	0.00	3834.91	1901918.84	11963835.64	803.32
6350.00	91.00	359.7	2776.21	3884.83	-23.05	0.00	3884.90	1901918.55	11963885.63	804.19
6400.00	91.00	359.7	2775.34	3934.82	-23.35	0.00	3934.89	1901918.25	11963935.62	805.06
6450.00	91.00	359.7	2774.47	3984.81	-23.65	0.00	3984.88	1901917.95	11963985.61	805.93
6500.00	91.00	359.7	2773.59	4034.81	-23.94	0.00	4034.88	1901917.66	11964035.61	806.81
6550.00	91.00	359.7	2772.72	4084.80	-24.24	0.00	4084.87	1901917.36	11964085.60	807.68
6600.00	91.00	359.7	2771.85	4134.79	-24.54	0.00	4134.86	1901917.06	11964135.59	808.55
6650.00	91.00	359.7	2770.98	4184.78	-24.83	0.00	4184.85	1901916.77	11964185.58	809.42
6700.00	91.00	359.7	2770.10	4234.77	-25.13	0.00	4234.85	1901916.47	11964235.57	810.30
6750.00	91.00	359.7	2769.23	4284.76	-25.43	0.00	4284.84	1901916.17	11964285.56	811.17
6800.00	91.00	359.7	2768.36	4334.75	-25.72	0.00	4334.83	1901915.88	11964335.55	812.04
6850.00	91.00	359.7	2767.48	4384.75	-26.02	0.00	4384.82	1901915.58	11964385.55	812.92
6900.00	91.00	359.7	2766.61	4434.74	-26.32	0.00	4434.82	1901915.28	11964435.54	813.79
6950.00	91.00	359.7	2765.74	4484.73	-26.61	0.00	4484.81	1901914.99	11964485.53	814.66
7000.00	91.00	359.7	2764.87	4534.72	-26.91	0.00	4534.80	1901914.69	11964535.52	815.53
7050.00	91.00	359.7	2763.99	4584.71	-27.21	0.00	4584.79	1901914.39	11964585.51	816.41
Page 3 of 5					SES V5	70			AADADAC -	makinhala sam

OperatorMack Energy CorpUnitsfeet, °/100ft08:03 Friday, October 11, 2024 Page 4 of 5FieldRound TankCountyEddyVertical Section Azimuth 359.66Well NameMission State #2HStateNew MexicoSurvey Calculation MethodMinimum CurvaturePlan1CountryUSADatabaseAccess

Location SL: 200 FSL & 2310 FWL Sec 2-T16S-R28E BHL: 1 Map Z

FNL & 2310 FWL Sec 2-T15S-R28E

Slot Name UWI Well Number 2H API

Project MD/TVD Ref KB

Map Zone UTM

Surface X 1901941.6 Surface Y 11960000.8 Surface Z 3580.4

Ground Level 3562.9

Lat Long Ref

Surface Long
Surface Lat
Global Z Ref KB

Local North Ref Grid

DIDECTIONAL	

Site

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
7100.00	91.00	359.7	2763.12	4634.70	-27.50	°/100 ft 0.00	4634.79	1901914.10	11964635.50	817.28
7150.00	91.00	359.7	2762.25	4684.70	-27.80	0.00	4684.78	1901913.80	11964685.50	818.15
7200.00	91.00	359.7	2761.38	4734.69	-28.10	0.00	4734.77	1901913.50	11964735.49	819.02
7250.00	91.00	359.7	2760.50	4784.68	-28.39	0.00	4784.76	1901913.21	11964785.48	819.90
7300.00	91.00	359.7	2759.63	4834.67	-28.69	0.00	4834.76	1901912.91	11964835.47	820.77
7350.00	91.00	359.7	2758.76	4884.66	-28.99	0.00	4884.75	1901912.61	11964885.46	821.64
7400.00	91.00	359.7	2757.89	4934.65	-29.28	0.00	4934.74	1901912.32	11964935.45	822.51
7450.00	91.00	359.7	2757.01	4984.64	-29.58	0.00	4984.73	1901912.02	11964985.44	823.39
7500.00	91.00	359.7	2756.14	5034.64	-29.88	0.00	5034.72	1901911.72	11965035.44	824.26
7550.00	91.00	359.7	2755.27	5084.63	-30.17	0.00	5084.72	1901911.43	11965085.43	825.13
7600.00	91.00	359.7	2754.40	5134.62	-30.47	0.00	5134.71	1901911.13	11965135.42	826.00
7650.00	91.00	359.7	2753.52	5184.61	-30.77	0.00	5184.70	1901910.83	11965185.41	826.88
7700.00	91.00	359.7	2752.65	5234.60	-31.06	0.00	5234.69	1901910.54	11965235.40	827.75
7750.00	91.00	359.7	2751.78	5284.59	-31.36	0.00	5284.69	1901910.24	11965285.39	828.62
7800.00	91.00	359.7	2750.90	5334.58	-31.66	0.00	5334.68	1901909.94	11965335.38	829.50
7850.00	91.00	359.7	2750.03	5384.58	-31.95	0.00	5384.67	1901909.65	11965385.38	830.37
7900.00	91.00	359.7	2749.16	5434.57	-32.25	0.00	5434.66	1901909.35	11965435.37	831.24
7950.00	91.00	359.7	2748.29	5484.56	-32.55	0.00	5484.66	1901909.05	11965485.36	832.11
8000.00	91.00	359.7	2747.41	5534.55	-32.84	0.00	5534.65	1901908.76	11965535.35	832.99
8050.00	91.00	359.7	2746.54	5584.54	-33.14	0.00	5584.64	1901908.46	11965585.34	833.86
8100.00	91.00	359.7	2745.67	5634.53	-33.44	0.00	5634.63	1901908.16	11965635.33	834.73
8150.00	91.00	359.7	2744.80	5684.53	-33.73	0.00	5684.63	1901907.87	11965685.33	835.60
8200.00	91.00	359.7	2743.92	5734.52	-34.03	0.00	5734.62	1901907.57	11965735.32	836.48
8250.00	91.00	359.7	2743.05	5784.51	-34.33	0.00	5784.61	1901907.27	11965785.31	837.35
8300.00	91.00	359.7	2742.18	5834.50	-34.62	0.00	5834.60	1901906.98	11965835.30	838.22
8350.00	91.00	359.7	2741.31	5884.49	-34.92	0.00	5884.60	1901906.68	11965885.29	839.09
8400.00	91.00	359.7	2740.43	5934.48	-35.22	0.00	5934.59	1901906.38	11965935.28	839.97
8450.00	91.00	359.7	2739.56	5984.47	-35.51	0.00	5984.58	1901906.09	11965985.27	840.84
8500.00	91.00	359.7	2738.69	6034.47	-35.81	0.00	6034.57	1901905.79	11966035.27	841.71
8550.00	91.00	359.7	2737.82	6084.46	-36.11	0.00	6084.56	1901905.49	11966085.26	842.58
8600.00	91.00	359.7	2736.94	6134.45	-36.40	0.00	6134.56	1901905.20	11966135.25	843.46
8650.00	91.00	359.7	2736.07	6184.44	-36.70	0.00	6184.55	1901904.90	11966185.24	844.33
8700.00	91.00	359.7	2735.20	6234.43	-37.00	0.00	6234.54	1901904.60	11966235.23	845.20
8750.00	91.00	359.7	2734.33	6284.42	-37.29	0.00	6284.53	1901904.31	11966285.22	846.07
8800.00	91.00	359.7	2733.45	6334.42	-37.59	0.00	6334.53	1901904.01	11966335.22	846.95
8850.00	91.00	359.7	2732.58	6384.41	-37.89	0.00	6384.52	1901903.71	11966385.21	847.82
8900.00	91.00	359.7	2731.71	6434.40	-38.18	0.00	6434.51	1901903.42	11966435.20	848.69
Page 4 of 5					SES v5	.79			www.	makinhole.com

OperatorMack Energy CorpUnitsfeet, °/100ft08:03 Friday, October 11, 2024 Page 5 of 5FieldRound TankCountyEddyVertical Section Azimuth359.66

Well Name Mission State #2H State New Mexico Survey Calculation Method Minimum Curvature
Plan 1 Country USA Database Access

Location SL: 200 FSL & 2310 FWL Sec 2-T16S-R28E BHL: 1 Map Zone UTM Lat Long Ref

FNL & 2310 FWL Sec 2-T15S-R28E

 Site
 Surface X 1901941.6
 Surface Long

 Slot Name
 UWI
 Surface Y 11960000.8
 Surface Lat

 Well Number 2H
 API
 Surface Z 3580.4
 Global Z Ref KB

 Project
 MD/TVD Ref KB
 Ground Level 3562.9
 Local North Ref Grid

DIRECTIONAL WELL PLAN

	MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* S	
	8950.00	91.00	359.7	2730.83	6484.39	-38.48	0.00	6484.50	1901903.12	11966485.19	849.57
	9000.00	91.00	359.7	2729.96	6534.38	-38.78	0.00	6534.50	1901902.82	11966535.18	850.44
	9050.00	91.00	359.7	2729.09	6584.37	-39.07	0.00	6584.49	1901902.53	11966585.17	851.31
	9100.00	91.00	359.7	2728.22	6634.36	-39.37	0.00	6634.48	1901902.23	11966635.16	852.18
	9150.00	91.00	359.7	2727.34	6684.36	-39.67	0.00	6684.47	1901901.93	11966685.16	853.06
	9200.00	91.00	359.7	2726.47	6734.35	-39.96	0.00	6734.47	1901901.64	11966735.15	853.93
	9250.00	91.00	359.7	2725.60	6784.34	-40.26	0.00	6784.46	1901901.34	11966785.14	854.80
	9300.00	91.00	359.7	2724.73	6834.33	-40.56	0.00	6834.45	1901901.04	11966835.13	855.67
	9350.00	91.00	359.7	2723.85	6884.32	-40.85	0.00	6884.44	1901900.75	11966885.12	856.55
	9400.00	91.00	359.7	2722.98	6934.31	-41.15	0.00	6934.44	1901900.45	11966935.11	857.42
**	9450.00 ** TD (at MD =	91.00 = 9460.50)	359.7	2722.11	6984.30	-41.45	0.00	6984.43	1901900.15	11966985.10	858.29
	9460.50	91.00	359.7	2721.93	6994.80	-41.51	0.00	6994.93	1901900.09	11966995.60	858.47

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: 01	3837	Date: 10 / 08 / 2024			
II. Type: ⊠ Origin	nal 🏻 Amendment	due to □ 19.15.27	.9.D(6)(a) NMA(C □ 19.15.27.9.D((6)(b) NMAC	☐ Other.		
If Other, please des	cribe:							
III. Well(s): Provide be recompleted from					wells propose	d to be dri	lled or proposed to	
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipate Gas MCF/		Anticipated roduced Water BBL/D	
Mission State 2H		N Sec 2 T16S R2	28E 200 FSL 2310 FWL	100	100	1,00	0	
	V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled o proposed to be recompleted from a single well pad or connected to a central delivery point. Well Name API Spud Date TD Reached Completion Commencement Date Back Date Date							
Mission State 2H								
VII. Operational Subsection A throu	Practices: ⊠ Attac gh F of 19.15.27.8 ement Practices:	ch a complete descr NMAC. ☑ Attach a comple	ription of the act	ions Operator wil	l take to com	ply with t	otimize gas capture. the requirements of ominimize venting	

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 🗆 v	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 t	the
natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s	s).

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

XIV. Confidentiality: \square Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provides	vided 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 info	rmation
for which confidentiality is asserted and the basis for such assertion.	

(h)

(i)

Section 3 - Certifications <u>Effective May 25, 2021</u>

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) **(b)** power generation for grid; compression on lease; (c) (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.
 - o 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.