Revi         Cinerals and Natural Resources         I Conservation Division	sed July 18, 2013
<b>I Conservation Division</b>	
	O REPORT
20 South St. Francis Dr.	
Santa Fe, NM 87505	
2	20 South St. Francis Dr. Santa Fe, NM 87505

Property Name

7. Surface Location

Feet from

1979

<sup>8</sup> Proposed Bottom Hole Location

Feet from

<sup>9.</sup> Pool Information

**Additional Well Information** 

13. Cable/Rotary

18. Formation

Devonian

<sup>21.</sup> Proposed Casing and Cement Program

**Casing/Cement Program: Additional Comments** 

<sup>22.</sup> Proposed Blowout Prevention Program

Pool Name

Distance from nearest fresh water well

Casing Weight/ft

32#

20#

Working Pressure

3000

N/S Line

N/S Line

Setting Depth

1381'

9880'

South

Feet From

Feet From

1981

14. Lease Type

19. Contractor

State

Test Pressure

3000

Glacier SWD

Lot Idn

Lot Idn

<sup>3</sup> API Number 30-015-31436

1

E/W Line

E/W Line

Distance to nearest surface water

Sacks of Cement

OIL CONSERVATION DIVISION

950sx

885sx

West

Well No.

County

County

Pool Code

96101

Ground Level Elevation

20. Spud Date

Estimated TOC

0'- In place

Manufacturer

0'

3391.6

3/1/2023

Eddy, NM

<sup>23.</sup> I hereby certify that the information given above is true and complete to the

I further certify that I have complied with 19.15.14.9 (A) NMAC 🛛 and/or

Dagna, Wagness.

Artesia, NM 88210

Township

16S

Township

Range

27E

Range

12. Well Type

17. Proposed Depth

SWD

Casing Size

Re-Entry drill 7 7/8" hole to 9880', run 5 1/2" csg/cmt. Put well on Injection

8 5/8"

5 1/2"

9880'

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

Hole Size

12 1/4"

7 7/8"

Type Double Ram

19.15.14.9 (B) NMAC 🔀, if applicable.

best of my knowledge and belief.

Signature:

Property Code

Section

32

Section

SWD; Devonian

11. Work Type

16. Multiple

**Re-Entry/ Deepen** 

Depth to Ground water

Type Surface

Production

UL - Lot

Κ

UL - Lot

• •••				
Printed name: Deana Weaver		Title:		
Title: Regulatory Tech II		Approved Date:	Expiration Date:	
E-mail Address: dweaver@mec.c	com			
Date: 12/21/2022	Phone: 575-748-1288	Conditions of Approval Attached		

Approved By:

# State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

AMENDED REPORT

	WELL LOCATION AND ACREAGE DEDICATION PLAT											
1	API Number	r		<sup>2</sup> Pool Code	e <sup>3</sup> Pool Name							
30-01	5-31436	5		96101		SWD; Devo	nian					
<sup>4</sup> Property Code					<sup>5</sup> Property	Name			<sup>6</sup> Well Number			
	GLACIER SWD								1			
<sup>7</sup> OGRID N	No.				<sup>8</sup> Operator	Name				<sup>9</sup> Elevation		
13837	,			MAC	CK ENERGY CORPORATION					3391.6		
	<sup>10</sup> Surface Location											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/W	est line	County		
K	32	16 S	27 E		1979	SOUTH	1981	WEST		EDDY		
			пF	Bottom H	Iole Location	If Different Fr	om Surface					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line Cou		County		
<sup>12</sup> Dedicated Acre	s <sup>13</sup> Joint	or Infill <sup>14</sup> C	onsolidatio	n Code	<sup>15</sup> Order No.							
40												

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.

	S89°58'32"E	2616.26 FT	S89'57'37"E	2617.15 FT		<sup>17</sup> OPERATOR CERTIFICATION
	NW CORNER SEC. 32	N/4 CORNER	R SEC. 32	NE CORNER SEC. 32		I hereby certify that the information contained herein is true and complete
	LAT. = 32.8864004 N	LAT. = 32.8	863954'N	LAT. = 32.8863879*N		to the best of my knowledge and belief, and that this organization either
	NMSP FAST (FT)	LUNG. = 104.	ST (FT)	LUNG. = 104.2923040 W		owns a working interest or unleased mineral interest in the land including
F	N = 686207.20	N = 6862	206.08	N = 686204.27 (s		the proposed bottom hole location or has a right to drill this well at this
3 F	E = 548681.53	E = 5512	297.14	E = 553913.64		location pursuant to a contract with an owner of such a mineral or working
9.2				38,		interest, or to a voluntary pooling agreement or a compulsory pooling order
265		i i		14.		heretofore entered by the division.
. W. S				  126		Deana Weaver 12/16/2022
5,23				6 4		Signature Date
20.0		GLACIER SWD 1		0 5	3	Deana Weaver
NO		ELEV. = 3391.6' LAT. = 32.8772162'N	(NAD83)	F -	]	Printed Name
	W/4 CORNER SEC. 32	LONG. = 104.3029502	2°W	E /A CORNER SEC 32		dweaver@mec.com
	LAT. = $32.8790930^{\circ}N$	N = 682866.30		LAT. = 32.8790733'N		E-mail Address
	NMSP FAST (FT)	E = 550665.14		LONG. = 104.2919687W		
	N = 683548.64			N = 683543.10		<b><sup>18</sup>SURVEYOR CERTIFICATION</b>
	E = 548684.15	SURFAG	E	E = 554036.21		I hereby certify that the well location shown on this plat
FT	<b>-</b>		0N		SC	was plotted from field notes of actual surveys made by
58					12.39	me or under my supervision, and that the same is true
660.		i l i			9'12	and correct to the best of my belief.
W 2		++		+	Ē	NOVEMBER 7, 2022
19"		, 6			2664	Date of Survey
03'		197			4.0	M5 M5
.00	SW CORNER SEC. 32	i ) i	S/4 CORNER SEC. 32	SE CORNER SEC. 32		AN THE AND
Z	LAT. = $32.8717819$ 'N		$LAT. = 32.8717758^{\circ}N$	LAT. = $32.8717604$ *N		
	NMSP EAST (FT)		NMSP FAST (FT)	NMSP FAST (FT)		Signature and Seal of Protectional Surveyor:
	N = 680888.72		N = 680887.19	N = 680882.58	ŝ	Certificate Number:
	E = 548686./2	1 2680 54 ET	E = 551375.59	E = 554159.51	1]	PO5558 VEV 00 9578
	N CU OC 60M	7 2003.04 FI	1009 04 10	W Z/04.01 FI		- / LEVIC / LOTIO, 93/0

Page 2 of 21







RANGE 27 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

NOVEMBER 7, 2022

SURVEY NO. 9578 MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

SOUTHEAST PAD CORNER FOR THIS LOCATION.







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# ACCESS ROAD PLAT

EXISTING ROAD FOR ACCESS TO GLACIER SWD 1

of 21

MACK ENERGY CORPORATION CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 32, TOWNSHIP 16 SOUTH, RANGE 27 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO NOVEMBER 7, 2022

#### DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 32, TOWNSHIP 16 SOUTH, RANGE 27 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 32, TOWNSHIP 16 SOUTH, RANGE 27 EAST, N.M.P.M., WHENCE THE EAST QUARTER CORNER OF SAID SECTION 32, TOWNSHIP 16 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS N46°21'45"E, A DISTANCE OF 816.65 FEET; THENCE N81'15'16"W A DISTANCE OF 52.05 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S85'05'05"W A DISTANCE OF 81.47 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S63'02'20"W A DISTANCE OF 72.03 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; 754.57 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S58°30'54"W A DISTANCE OF THENCE S69°23'10"W A DISTANCE OF 151.49 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N84'08'10"W A DISTANCE OF 302.25 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N88'42'08"W A DISTANCE OF 454.04 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE S79'46'20"W A DISTANCE OF 150.68 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N89'36'50" A DISTANCE OF 151.09 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N71°47'40"W A DISTANCE OF 301.90 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N67\*45'44"W A DISTANCE OF 305.71 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE WEST QUARTER CORNER OF SAID SECTION 32, TOWNSHIP 16 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS N69\*06'58"W, A DISTANCE OF 2308.19 FEET;

SAID STRIP OF LAND BEING 2777.28 FEET OR 168.32 RODS IN LENGTH, CONTAINING 1.913 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NE/4 S	E/4 8	831.81 L.F.	50.41	RODS	0.573	ACRES
NW/4 S	SÉ/4 1	399.46 L.F.	84.82	RODS	0.964	ACRES
NE/4 S	E/4 .	546.01 L.F.	33.09	RODS	0.376	ACRES

#### SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, GENERAL NOTES 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 1.) THE INTENT OF THIS ROUTE SURVEY IS TO SURVEYING IN NEW MEXICO. ACQUIRE AN EASEMENT. CERTIFICATE IS EXECUTED AT CARLSBAD, 2.) BASIS OF BEARING AND DISTANCE IS NMSP NEW M ÍBERÍ 2022, EAST (NAD83) MODIFIED TO SURFACE MADRON SURVEYING, INC. COORDINATES. NAD 83 (FEET) AND NAVD 88 7301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY. Phone (575) 234-3327 SHEET: 2-2 SURVEY NO. 9578 MADRON SURVEYING, INC. (575) MEXICO NEW ()

Re	ceived by	OCD: 1/4/2023	2:30:05 PM
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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									
	N	ATURAL GA	AS MANA(	GEMENT PI	LAN				
This Natural Gas Manag	gement Plan m	ust be submitted wit	th each Applicat	ion for Permit to I	Drill (A	PD) for a n	ew or re	completed well.	
		<u>Section</u> Eff	<u>1 – Plan D</u> fective May 25,	escription 2021					
I. Operator: <u>Mack E</u>	Energy Corpo	ration	_OGRID:	013837		Date:	12 / 2	1/2022	
<b>II. Type: 💢</b> Original [	□ Amendment	due to □ 19.15.27.9	9.D(6)(a) NMA	C 🗆 19.15.27.9.D(	6)(b) N	IMAC 🗆 O	ther.		
f Other, please describe	e:								
<b>III. Well(s):</b> Provide th be recompleted from a s	e following inf single well pad	formation for each n or connected to a co	ew or recomple entral delivery p	ted well or set of v oint.	wells pi	roposed to b	oe drilleo	l or proposed to	
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anti Gas	Anticipated Anticipated Gas MCF/D Produced Water BBL/D			
Glacier SWD #1	30-015-31436	K Sec 32 T16S R27E	1979 FSL 1981 FWI	- 100	1	00	1,000		
V. Central Delivery P V. Anticipated Schedu proposed to be recomple	<b>Point Name:</b> le: Provide the eted from a sing	DCP Midstream Linam Ranch Pro following informat gle well pad or conr	ion for each new nected to a centr	<sup>dstream</sup> v or recompleted w al delivery point.	vell or s	[See 19 et of wells	.15.27.9 proposed	(D)(1) NMAC] I to be drilled or	
Well Name	API	Spud Date	TD Reached Date	Completion Commencement	Date	Initial Fl Back Da	ow F ate	irst Production Date	
Glacier SWD #1	30-015-31436	3/1/2023	3/20/2023	5/31/2023		5/31/2023		6/1/2023	
VI. Separation Equipment: XAttach a complete description of how Operator will size separation equipment to optimize gas capture. VII. Operational Practices: X 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 Managemend during active and plann	nt Practices: と ed maintenance	Attach a complet	e description of	Operator's best n	nanagei	nent practio	ces to m	inimize 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.

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

## IX. Anticipated Natural Gas Production:

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

## X. Natural Gas Gathering System (NGGS):

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

**XI. Map.**  $\Box$  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  $\Box$  will  $\Box$  will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

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

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

**XIV. Confidentiality:**  $\Box$  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.

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

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

 $\bigotimes$  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

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

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

# Section 4 - Notices

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

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

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

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

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

Signature: Deana Weaver
Printed Name: Deana Weaver
Title: Regulatory Technician II
E-mail Address: dweaver@mec.com
Date: 12/21/2022
Phone: 575-748-1288
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

### VI. Separation Equipment:

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

VII. Operational Practices:

- 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  $\circ$  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.

# Glacier SWD #1 1980 FSL 1980 FWL Sec. 32 T16S R27E Formation Tops

Quaternary	Surface
Seven Rivers	30'
Queen	520'
Grayburg	850'
San Andres	1220'
Glorieta	2650'
Tubb	3931'
Abo	4645'
Wolfcamp	5900'
Cisco	7014'
Strawn	7920'
Atoka	8299'
Morrow	8519'
U. Miss	8805'
L. Miss	9002'
Devonian	9385'
Montoya	9780'
Simpson	10,074'

## Mack Energy Corporation Minimum Blowout Preventer Requirements 3000 psi Working Pressure 13 3/8 inch- 3 MWP 11 Inch - 3 MWP EXHIBIT #10

**Stack Requirements** 

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



#### OPTIONAL Flanged Valve

ME

CONTRACTOR'S OPTION TO 10. CONTRACTOR'S OPTION TO FURNISH:

 All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 2000 psi minimum.

16

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

#### MEC TO FURNISH:

1. Bradenhead or casing head and side valves.

2. Wear bushing. If required.

GENERAL NOTES:

1 13/16

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

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

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

# Mack Energy Corporation Exhibit #11

MIMIMUM CHOKE MANIFOLD

3,000, 5,000, and 10,000 PSI Working Pressure

3M will be used 3 MWP - 5 MWP - 10 MWP



**Reserve Pit** 

\* Location of separator optional

#### **Below Substructure**

Mimimum requirements										
		3,000 MWP			5,000 MWP			10,000 MWP		
No.		I.D.			I.D.			I.D.		
			Nominal	Rating		Nominal	Rating		Nominal	Rating
1	Line from drilling Spool		3"	3,000		3"	5,000		3"	10,000
2	Cross 3" x 3" x 3" x 2"			3,000			5,000			
2	Cross 3" x 3" x 3" x 2"									10,000
3	Valve Gate Plug	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000
4	Valve Gate Plug	1 13/16		3,000	1 13/16		5,000	1 13/16		10,000
4a	Valves (1)	2 1/16		3,000	2 1/16		5,000	2 1/16		10,000
5	Pressure Gauge			3,000			5,000			10,000
6	Valve Gate Plug	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000
7	Adjustable Choke (3)	2"		3,000	2"		5,000	2"		10,000
8	Adjustable Choke	1"		3,000	1"		5,000	2"		10,000
9	Line		3"	3,000		3"	5,000		3"	10,000
10	Line		2"	3,000		2"	5,000		2"	10,000
11	Valve Gate Plug	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000
12	Line		3"	1,000		3"	1,000		3"	2,000
13	Line		3"	1,000		3"	1,000		3"	2,000
14	Remote reading compound Standpipe pressure quage			3,000			5,000			10,000
15	Gas Separator		2' x5'			2' x5'			2' x5'	
16	Line		4"	1,000		4"	1,000		4"	2,000
17	Valve Gate Plug	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000

Only one required in Class 3M (1)

(2)Gate valves only shall be used for Class 10 M

Remote operated hydraulic choke required on 5,000 psi and 10,000 psi for drilling. (3)

EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTION

All connections in choke manifold shall be welded, studded, flanged or Cameron clamp of comparable rating. 1.

2. All flanges shall be API 6B or 6BX and ring gaskets shall be API RX or BX. Use only BX for 10 MWP.

3. All lines shall be securely anchored.

4. Chokes shall be equipped with tungsten carbide seats and needles, and replacements shall be available.

- 5. alternate with automatic chokes, a choke manifold pressure gauge shall be located on the rig floor in conjunction with the standpipe pressure gauge.
- 6. Line from drilling spool to choke manifold should bee as straight as possible. Lines downstream from chokes shall make turns by large bends or 90 degree bends using bull plugged tees

## Mack Energy Corporation MANIFOLD SCHEMATIC Exhibit #12



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

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Action 172569

COMMENTS

Operator:	OGRID:		
MACK ENERGY CORP	13837		
P.O. Box 960	Action Number:		
Artesia, NM 882110960	172569		
	Action Type:		
	[C-101] Drilling Non-Federal/Indian (APD)		
COMMENTS			

# Created By Comment Comment dmcclure Related to Action ID: 173002 4/4/2023

Released to Imaging: 3/20/2025 1:23:02 PM

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

CONDITIONS

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Action 172569

CONDITIONS	
CONDITIONS	

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	172569
	Action Type:
	[C-101] Drilling Non-Federal/Indian (APD)

#### CONDITIONS

Created By	Condition	Condition Date
dmcclure	Due to the well location, in a high karst terrain, Permittee shall complete a Cement Bond Log ("CBL") across the 8.625-inch surface casing to validate cement integrity. The Permittee shall submit the CBL in a Form C-103 Subsequent Report with OCD within 10 days after completion of the log. If the CBL shows that cementing does not achieve a proper seal of the surface casing, the Permittee shall be required to submit a plan for remediation of the cement to achieve an acceptable seal.	3/17/2025
dmcclure	The Permittee shall conduct a swab or production test of the approved injection interval for hydrocarbon potential and obtain a formation water sample for analysis of hydrocarbon content as well as general water chemistry (including major cations, major anions, and Total Dissolved Solids ("TDS")). The Inspection Supervisor shall be noticed 24 hours prior to this test and given the opportunity to witness the test. Prior to commencing injection, the Permittee shall submit the results of the water sample [including the entire laboratory analytical report] and a summary report of the production test to the OCD using a Form C-103 Subsequent Report (General) for approval. If the analysis of the sample is found to contain a TDS concentration of 10,000 milligrams per liter or less, the injection authority under this Permit shall be suspended ipso facto.	3/17/2025
dmcclure	The Permittee shall complete a CBL across the 5.5-inch production casing to verify cement integrity and confirm cement to surface.	3/17/2025
dmcclure	Permittee shall run a Quad-Combo Log (ie. Gamma Ray combined with Resistivity, Sonic, Density and Neutron) across the 7.875-inch open hole section from well Total Depth (TD planned for 9880 ft after deepening) up to the casing shoe at 1,381 feet. The Permittee shall submit the log in a Form C-103 Subsequent Report with OCD within ten (10) days after completion of the log.	3/17/2025
dmcclure	Discrepancy between surface location data from recent Form C-102 survey relative to the historical surface location data and latitude / longitude coordinates in OCD WellFile must be resolved. Permittee shall submit a Form C-103Z (Subsequent Report-General Sundry) and attach the updated Form C-102 with a note indicating "Updated surface location description and latitude/longitude coordinates	3/17/2025
dmcclure	Logging of the surface casing and 7.875-inch open hole section must be performed to ascertain the base of the Roswell Artesian Aquifer prior to running the production casing. If the base of the aquifer is identified below the existing surface casing, an intermediate casing sting must be set within 50 feet of the base of the aquifer as per - 19.15.39.11 NMAC prior to running production casing. Furthermore, if an intermediate casing string is run, a CBL will be required to confirm the quality of cement across the intermediate string. Logging of the production casing string will also be required as per Special Condition 3 above.	3/17/2025
dmcclure	The schedule for MIT detailed in section I. D. 3. of the SWD permit is superseded by this Special Condition. MIT and Bradenhead Test ("BHT") shall be performed on an annual basis and witnessed by an OCD Inspector. In the event of a failed MIT or BHT, Permittee shall cease injection and shut-in the well within twenty-four (24) hours.	3/17/2025
dmcclure	Work shall be conducted as approved in Application ID: 443074. Class H cement shall be used in Stage 1.	3/17/2025
dmcclure	Notify the OCD 24 hours prior to casing & cement.	3/17/2025
dmcclure	Cement is required to circulate on both surface and production strings of casing.	3/17/2025
dmcclure	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.	3/17/2025
dmcclure	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.	3/17/2025
dmcclure	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	3/17/2025
dmcclure	If Operator reopens the well and does not complete it, then Operator shall plug the well in accordance with 19.15.25 NMAC	3/17/2025