

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☐ DRILL ☐ REENTER 1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No. 9. API Well No. 30-005-64381
2. Name of Operator 3a. Address 3b. Phone No. (include area code)		10. Field and Pool, or Exploratory 11. Sec., T. R. M. or Blk. and Survey or Area 12. County or Parish 13. State
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		14. Distance in miles and direction from nearest town or post office* 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 16. No of acres in lease 17. Spacing Unit dedicated to this well 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 19. Proposed Depth 20. BLM/BIA Bond No. in file 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration
24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)		

- | | |
|---|---|
| 1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM. |
|---|---|

25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title		Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
 Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 03/01/2023

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-005-64381	² Pool Code 52770	³ Pool Name Round Tank; San Andres
⁴ Property Code 333830	⁵ Property Name WESTMOUNT FEDERAL	⁶ Well Number 1H
⁷ OGRID No. 13837	⁸ Operator Name MACK ENERGY CORPORATION	⁹ Elevation 3599.7

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	27	15 S	28 E		330	SOUTH	400	WEST	CHAVES

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	27	15 S	28 E		330	SOUTH	1	EAST	CHAVES

¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
---	-------------------------------	----------------------------------	-------------------------

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.

N89°47'09"E 2642.96 FT NW CORNER SEC. 27 LAT. = 32.9943856°N LONG. = 104.1284120°W NMSP EAST (FT) N = 725554.99 E = 604165.61 N/4 CORNER SEC. 27 SCALED NE CORNER SEC. 27 LAT. = 32.9944104°N LONG. = 104.1111759°W NMSP EAST (FT) N = 725574.73 E = 609450.13 WESTMOUNT FEDERAL 1H ELEV. = 3599.7' LAT. = 32.9808339°N (NAD83) LONG. = 104.1271281°W NMSP EAST (FT) N = 720625.29 E = 604568.90 W/4 CORNER SEC. 27 LAT. = 32.9871224°N LONG. = 104.1284238°W NMSP EAST (FT) N = 722912.42 E = 604167.13 E/4 CORNER SEC. 27 LAT. = 32.9871538°N LONG. = 104.1110964°W NMSP EAST (FT) N = 722934.64 E = 609480.07 LAST TAKE POINT 330' FSL, 100' FEL LAT. = 32.9808047°N LONG. = 104.1115415°W NMSP EAST (FT) N = 720624.37 E = 609348.47 BOTTOM OF HOLE LAT. = 32.9808033°N LONG. = 104.1112187°W NMSP EAST (FT) N = 720624.08 E = 609447.44 SW CORNER SEC. 27 LAT. = 32.9799265°N LONG. = 104.1284337°W NMSP EAST (FT) N = 720294.37 E = 604169.21 SE CORNER SEC. 27 LAT. = 32.9798966°N LONG. = 104.1112325°W NMSP EAST (FT) N = 720294.20 E = 609443.93 S/4 CORNER SEC. 27 LAT. = 32.9799318°N LONG. = 104.1196557°W NMSP EAST (FT) N = 720301.65 E = 606860.95 400' SURFACE LOCATION FTP 1' BOTTOM OF HOLE LTP N89°50'42"E 2692.45 FT S89°50'05"E 2583.65 FT		¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Deana Weaver</i> 5/4/2022 Signature Date Deana Weaver Printed Name dweaver@mec.com E-mail Address ¹⁸ SURVEYOR CERTIFICATION 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. APRIL 26, 2022 Date of Survey <i>[Signature]</i> Signature and Seal of Professional Surveyor: 12797 Certificate Number: 12797 SURV. NO. 9338A
--	--	--

Intent ☒ As Drilled ☐

API #		
Operator Name: MACK ENERGY CORPORATION	Property Name: WESTMOUNT FEDERAL	Well Number 1H

Kick Off Point (KOP)

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

First Take Point (FTP)

UL M	Section 27	Township 15S	Range 28E	Lot	Feet 330	From N/S SOUTH	Feet 1100	From E/W WEST	County CHAVES
Latitude 32.9808355					Longitude 104.1248461				NAD 83

Last Take Point (LTP)

UL P	Section 27	Township 15S	Range 28E	Lot	Feet 330	From N/S SOUTH	Feet 100	From E/W EAST	County CHAVES
Latitude 32.9808047					Longitude 104.1115415				NAD 83

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

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

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

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

Submit Electronically
Via E-permitting

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Mack Energy Corporation **OGRID:** 013837 **Date:** 3 / 21 / 2022

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Westmount Federal 1H		M Sec 27 T15S R28E	330 FSL 400 FWL	100	100	1,000

IV. Central Delivery Point Name: DCP Midstream Linam Ranch Processing Plant / Durango Midstream [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Westmount Federal 1H		8/1/2022	8/20/2022	10/31/2022	10/31/2022	11/1/2022

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

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

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

Section 2 – Enhanced Plan**EFFECTIVE APRIL 1, 2022**

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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

Signature:	<i>Deana Weaver</i>
Printed Name:	Deana Weaver
Title:	Regulatory Technician II
E-mail Address:	dweaver@mec.com
Date:	3/21/2022
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:

1. Subsection (A) Venting and Flaring of Natural Gas. MEC understands the requirements of NMAC 19.15.27.8 which outlines that the venting and flaring of natural gas during drilling, completion or production operations that constitutes waste as defined in 19.15.2 are prohibited.
2. Subsection (B) Venting and Flaring during drilling operations. This gas capture plan isn't for a well being drilled.
3. Subsection (C) Venting and flaring during completion or recompletion. Flowlines will be routed for flowback fluids into a completion or storage tank and if feasible under well conditions, flare rather than vent and commence operation of a separator as soon as it is technically feasible for a separator to function.
 - At any point in the well life (completion, production, inactive) an audio, visual and olfactory inspection be performed at prescribed intervals (weekly or monthly) pursuant to Subsection D of 19.15.27.8 NMAC, to confirm that all production equipment is operating properly and there are no leaks or releases.
4. Subsection (D) Venting and flaring during production operations
 - At any point in the well life (completion, production, inactive) an audio, visual and olfactory inspection be performed at prescribed intervals (weekly or monthly) pursuant to Subsection D of 19.15.27.8 NMAC, to confirm that all production equipment is operating properly and there are no leaks or releases.
 - Monitor manual liquid unloading for wells on-site or in close proximity (<30 minutes' drive time), take reasonable actions to achieve a stabilized rate and pressure at the earliest practical time, and take reasonable actions to minimize venting to the maximum extent practicable.
 - MEC will not vent or flare except during the approved activities listed in NMAC 19.15.27.8 (D) 14.
5. Subsection (E) Performance standards
 - All tanks and separation equipment are designed for maximum throughput and pressure to minimize waste.
 - If a flare is utilized during production operations it will have a continuous pilot and is located more than 100 feet from any known well or storage tanks.
 - At any point in the well life (completion, production, inactive) an audio, visual and olfactory inspection be performed at prescribed intervals (weekly or monthly) pursuant to Subsection D of 19.15.27.8 NMAC, to confirm that all production equipment is operating properly and there are no leaks or releases.

6. Subsection (F) Measurement or estimation of vented and flared natural gas
 - o Measurement equipment is installed to measure the volume of natural gas flared from process piping.
 - o 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.



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Drilling Plan Data Report

03/01/2023

APD ID: 10400083986

Submission Date: 05/04/2022

Highlighted data
reflects the most
recent changes

Operator Name: MACK ENERGY CORPORATION

Well Name: WESTMOUNT FEDERAL

Well Number: 1H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
8364904	YATES	3599	458	458	SILTSTONE	NATURAL GAS, OIL	N
8364905	SEVEN RIVERS	2892	707	707	DOLOMITE, SILTSTONE	NATURAL GAS, OIL	N
8364906	QUEEN	2409	1190	1190	SILTSTONE	NATURAL GAS, OIL	N
8364907	GRAYBURG	2000	1599	1599	DOLOMITE, SILTSTONE	NATURAL GAS, OIL	N
8364908	SAN ANDRES	1690	1909	1909	DOLOMITE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 3M

Rating Depth: 7343

Equipment: Rotating Head, Mud-Gas Separator

Requesting Variance? NO

Variance request:

Testing Procedure: The BOP/BOPE test shall include a low pressure test for 250 to 300psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. The estimated bottom hole at TD is 120 degrees and estimated maximum bottom hole pressure is 1404psig (0.052*2934.23*9.2ppg) less than 2900 bottom hole pressure. Will test to 2000psi for 30 mins.

Choke Diagram Attachment:

choke_manifold_20220321094817.pdf

choke_manifold_diagram_20220321094823.pdf

BOP Diagram Attachment:

bop_diagram_20220321094831.pdf

Operator Name: MACK ENERGY CORPORATION

Well Name: WESTMOUNT FEDERAL

Well Number: 1H

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	400	0	400	3599	3199	400	J-55	48	ST&C	3.706	4.662	BUOY	26.435	BUOY	4.74
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	1200	0	1200	3599	2399	1200	J-55	36	LT&C	3.237	7.04	BUOY	10.768	BUOY	7.04
3	PRODUCTION	8.75	7.0	NEW	API	N	0	1900	0	1900	3599	1699	1900	HCP-110	26	LT&C	7.42	3.35	BUOY	8.067	BUOY	3.317
4	PRODUCTION	8.75	7.0	NEW	API	N	1900	2950	1900	2734	1699	865	1050	HCP-110	26	OTHER - Buttress	4.826	3.368	BUOY	9.929	BUOY	3.35
5	PRODUCTION	8.75	5.5	NEW	API	N	2950	7343	2734	2934	865	665	4393	HCP-110	17	OTHER - Buttress	5.458	3.687	BUOY	9.028	BUOY	3.602

Casing Attachments

Casing ID: 1

String

SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Surface_Csg_20220321095214.pdf

Operator Name: MACK ENERGY CORPORATION**Well Name:** WESTMOUNT FEDERAL**Well Number:** 1H**Casing Attachments****Casing ID:** 2 **String** INTERMEDIATE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**

Interm_Csg_20220321095503.pdf

Casing ID: 3 **String** PRODUCTION**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**

Prod_Csg_20220321095710.pdf

Casing ID: 4 **String** PRODUCTION**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**

Prod_Csg_20220321100002.pdf

Operator Name: MACK ENERGY CORPORATION

Well Name: WESTMOUNT FEDERAL

Well Number: 1H

Casing Attachments

Casing ID: 5 String PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Prod_Csg_20220321100139.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead		0	0	0	0	0	0		0	0

PRODUCTION	Lead		0	0	0	0	0	0		0	0
------------	------	--	---	---	---	---	---	---	--	---	---

SURFACE	Lead		0	400	100	1.61	14.4	277		RFC+12% PF53+2% PF1+5ppsPF42+. 125ppsPF29	20bbls Gelled Water 50sx of 11# Scavenger Cement
SURFACE	Tail		0	400	300	1.34	14.8	277	100	Class C + 1% PF1	20bbls Gelled Water 50sx of 11# Scavenger Cement
INTERMEDIATE	Lead		0	1200	560	1.34	14.8	277	100	Class C 1% PF 1	20bbls Gelled Water 50sx of 11# Scavenger Cement

PRODUCTION	Lead		0	7343	315	1.84	13.2	1855	35	Class C 4% PF20+4pps PF45+125pps PF29	20bbls Gelled Water 20bbls Chemical Wash 50sx of 11# Scavenger Cement
PRODUCTION	Tail		0	7343	1300	1.48	13	1855	35	PVL+1.3 (BWOW)	20bbls Gelled Water 20bbls Chemical

Operator Name: MACK ENERGY CORPORATION**Well Name:** WESTMOUNT FEDERAL**Well Number:** 1H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
										PF44+5% PF174+.5%PF60 6+.1%PF153+.4p psPF44	Wash 50sx of 11# Scavenger Cement

Section 5 - Circulating Medium

Mud System Type: Open**Will an air or gas system be Used?** NO**Description of the equipment for the circulating system in accordance with Onshore Order #2:****Diagram of the equipment for the circulating system in accordance with Onshore Order #2:****Describe what will be on location to control well or mitigate other conditions:** BOPE Brine Water**Describe the mud monitoring system utilized:** Parson PVT with PVT Volume Recorder

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	400	SPUD MUD	8.5	10	74.8	0.1	11		12000	15	
400	1200	LSND/GEL	9.1	10	74.8	0.1	11		12000	15	
1200	7343	LSND/GEL	9.1	9.2	74.8	0.1	11		12000	15	The estimated bottom hole at TD is 120 degrees and estimated maximum bottom hole pressure is 1404psig (0.052*2935'TVD*9.2ppg) less than 2900 bottom hole pressure.

Operator Name: MACK ENERGY CORPORATION**Well Name:** WESTMOUNT FEDERAL**Well Number:** 1H

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

None

List of open and cased hole logs run in the well:

CNL/FDC,COMPENSATED DENSILOG,GAMMA RAY LOG,

Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 1404**Anticipated Surface Pressure:** 758**Anticipated Bottom Hole Temperature(F):** 95**Anticipated abnormal pressures, temperatures, or potential geologic hazards?** NO**Describe:****Contingency Plans geohazards description:****Contingency Plans geohazards****Hydrogen Sulfide drilling operations plan required?** NO**Hydrogen sulfide drilling operations**

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Westmount_Federal_1H_Preliminary_Horizontal_Well_Plan_1_20220321104922.pdf

Horizontal_Spacing_Unit_20220321105036.pdf

Escape_Route_20220321110604.pdf

Natural_Gas_Management_Plan_20220427143355.pdf

Drilling_Program_20220427143616.pdf

H2S_Plan_20220427143626.pdf

Other proposed operations facets description:**Other proposed operations facets attachment:****Other Variance attachment:**

Cactus_Wellhead_installation_Procedure_20220321104759.pdf

Variance_request_20220321104850.pdf

Attached to Form 3160-3
Mack Energy Corporation
Westmount Federal #1H NMNM-132939
SHL : 330 FSL & 400 FWL, SWSW, Sec. 27 T15S R28E
BHL : 330 FSL & 1 FEL, SESE, Sec. 27 T15S R28E
Chaves County, NM

DRILLING PROGRAM

1. Geologic Name of Surface Formation

Quaternary

2. Estimated Tops of Important Geologic Markers:

Yates	458'
Seven Rivers	707'
Queen	1190'
Grayburg	1599'
San Andres	1909'

3. Estimated Depths of Anticipated Fresh Water, Oil and Gas:

Water Sand	150'	Fresh Water
Yates	458'	Oil/Gas
Seven Rivers	707'	Oil/Gas
Queen	1190'	Oil/Gas
Grayburg	1599'	Oil/Gas
San Andres	1909'	Oil/Gas

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Setting 13 3/8" casing to 400' and circulating cement back to surface will protect the surface fresh water sand. Salt section and shallower zones above TD, which contain commercial quantities of oil and/or gas, will have cement circulated across them by cementing 5 1/2" production casing, sufficient cement will be pumped to circulate back to surface.

4. Casing Program:

Hole Size	Interval	OD Casing	Wt, Grade, Jt, cond, collapse/burst/tension
17 1/2"	0-400'	13 3/8"	48#, J-55, ST&C, New, 3.705929/4.662417/4.74
12 1/4"	0-1200'	9 5/8"	36#, J-55, LT&C, New, 3.237179/7.04/7.04
8 3/4"	0-1900'	7"	26#, HCP-110, LT&C, New, 7.420143/3.349762/3.316667
8 3/4"	1900-2950'	7"	26#, HCP-110, Buttress, New, 4.826118/3.368337/3.49762
8 3/4"	2950-7343'	5 1/2"	17#, HCP-110, Buttress, New, 5.458064/3.687467/3.60192

Variance request: A variance is requested to use a Multi Bowl System and Flex Hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test will be kept on the rig.

5. Cement Program:

Attached to Form 3160-3
Mack Energy Corporation
Westmount Federal #1H NMNM-132939
SHL : 330 FSL & 400 FWL, SWSW, Sec. 27 T15S R28E
BHL : 330 FSL & 1 FEL, SESE, Sec. 27 T15S R28E
Chaves County, NM

13 3/8" Surface Casing: Lead 100sx, RFC+12%PF53+2%PF1+5ppsPF42+.125ppsPF29, yld 1.61, wt 14.4 ppg, 7.357gals/sx Tail: 300sx, Class C+1% PF1, yld 1.34, wt 14.8 ppg, 6.323 gals/sx, excess 100%

9 5/8" Intermediate Casing: Tail 560sx, Class C + 1% PF1, yld 1.34, wt 14.8 ppg, 6.323 gals/sx, excess 100%

7" & 5 1/2" Production Casing: Lead 315sx Class C 4% PF 20+4 pps PF45 +125pps PF29, yld 1.84, wt 13.2 ppg, 9.914gals/sx, excess 35%, Slurry Top-Surface Tail 1300sx, PVL + 1.3 (BWOW) PF44 + 5% PF174 + .5% PF606 + .1% PF153 +.4 PF44, yield 1.48, wt 13.0, 7.577gals/sx, 35% excess, Slurry Top- 1,700'

6. Minimum Specifications for Pressure Control:

The blowout preventer equipment (BOP) shown in Exhibit #10 will consist of a double ram-type (3000 psi WP) minimum preventer. This unit will be hydraulically operated and the ram type preventer will be equipped with blind rams on top of 4 1/2" drill pipe rams on bottom. The 11" BOP will be nipped up on the 8 5/8" surface casing and tested by a 3rd party to 2000 psi used continuously until TD is reached. All BOP's and accessory equipment will be tested to 2000 psi before drilling out of intermediate casing. Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment (Exhibit #10) will include a Kelly cock and floor safety valve and choke lines and choke manifold (Exhibit #11) with a minimum 3000 psi WP rating

7. Types and Characteristics of the Proposed Mud System:

The well will be drilled to TD with a combination of fresh and cut brine mud system. The applicable depths and properties of this system are as follows:

DEPTH	TYPE	WEIGHT	VISCOSITY	WATERLOSS
0-400'	Fresh Water	8.5	28	N.C.
400'-1,200'	Cut Brine	9.1	29	N.C.
1,200-TD	Cut Brine	9.1	29	N.C.

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the well site at all times.

8. Auxiliary Well Control and Monitoring Equipment:

- A. Kelly cock will be kept in the drill string at all times.
- B. A full opening drill pipe-stabbing valve with proper drill pipe connections will be on the rig floor at all times.

9. Logging, Testing and Coring Program:

Attached to Form 3160-3
Mack Energy Corporation
Westmount Federal #1H NMNM-132939
SHL : 330 FSL & 400 FWL, SWSW, Sec. 27 T15S R28E
BHL : 330 FSL & 1 FEL, SESE, Sec. 27 T15S R28E
Chaves County, NM

-
- A. The electric logging program will consist of GR-Dual Laterolog, Spectral Density, Dual Spaced Neutron, CSNG Log from T.D. to 8 5/8 casing shoe.
 - B. Drill Stem test is not anticipated.
 - C. No conventional coring is anticipated.
 - D. Further testing procedures will be determined at TD.

10. Abnormal Conditions, Pressures, Temperatures and Potential Hazards:

No abnormal pressures or temperatures are anticipated. The estimated bottom hole at TD is 120 degrees and estimated maximum bottom hole pressure is 1404 psig (0.052*2935'TVD*9.2). Low levels of Hydrogen sulfide have been monitors in producing wells in the area, so H2S may be present while drilling of the well; a plan is attached to the Drilling program. No major loss of circulation zones has been reported in offsetting wells.

11. Anticipated Starting Date and Duration of Operations:

Road and location work will not begin until approval has been received from the BLM. The anticipated spud date is August 1, 2022. Once commenced, the drilling operation should be finished in approximately 20 days. If the well is productive, an additional 30 days will be required for completion and testing before a decision is made to install permanent facilities.

Attachment to Exhibit #10
NOTES REGARDING THE BLOWOUT PREVENTERS
Westmount Federal #1H
Chaves County, New Mexico

1. Drilling nipple to be so constructed that it can be removed without use of a welder through rotary table opening, with minimum I.D. equal to preventer bore.
2. Wear ring to be properly installed in head.
3. Blow out preventer and all fittings must be in good condition, 2000 psi WP minimum.
4. All fittings to be flanged.
5. Safety valve must be available on rig floor at all times with proper connections, valve to be full 2000 psi WP minimum.
6. All choke and fill lines to be securely anchored especially ends of choke lines.
7. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
8. Kelly cock on Kelly.

Attached to Form 3160-3

Mack Energy Corporation

Westmount Federal #1H NMNM-132939

SHL : 330 FSL & 400 FWL, SWSW, Sec. 27 T15S R28E

BHL : 330 FSL & 1 FEL, SESE, Sec. 27 T15S R28E

Chaves County, NM

-
9. Extension wrenches and hands wheels to be properly installed.
 10. Blow out preventer control to be located as close to driller's position as feasible.
 11. Blow out preventer closing equipment to include minimum 40-gallon accumulator, two independent sources of pump power on each closing unit installation all API specifications.

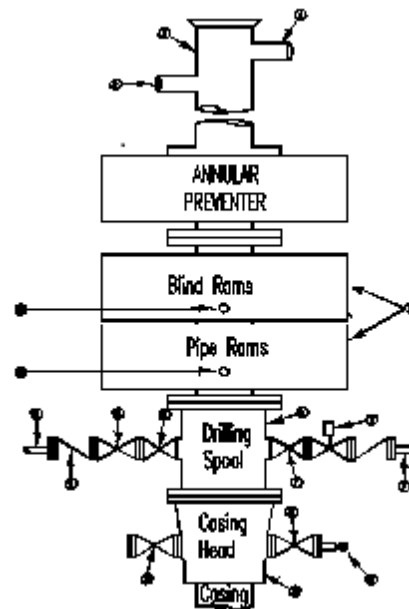
Mack Energy Corporation
Minimum Blowout Preventer Requirements
3000 psi Working Pressure
13 3/8 inch- 3 MWP
11 Inch - 3 MWP
EXHIBIT #10

Stack Requirements

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

OPTIONAL

16	Flanged Valve	1 13/16	
----	---------------	---------	--



CONTRACTOR'S OPTION TO FURNISH:

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

MEC TO FURNISH:

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

10.
ME

GENERAL NOTES:

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

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

Mack Energy Corporation

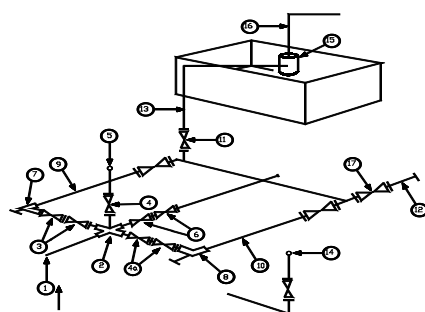
Exhibit #11

MINIMUM CHOKE MANIFOLD

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

3M will be used

3 MWP - 5 MWP - 10 MWP



Mud Pit

Reserve Pit

* Location of separator optional

Below Substructure

Minimum requirements

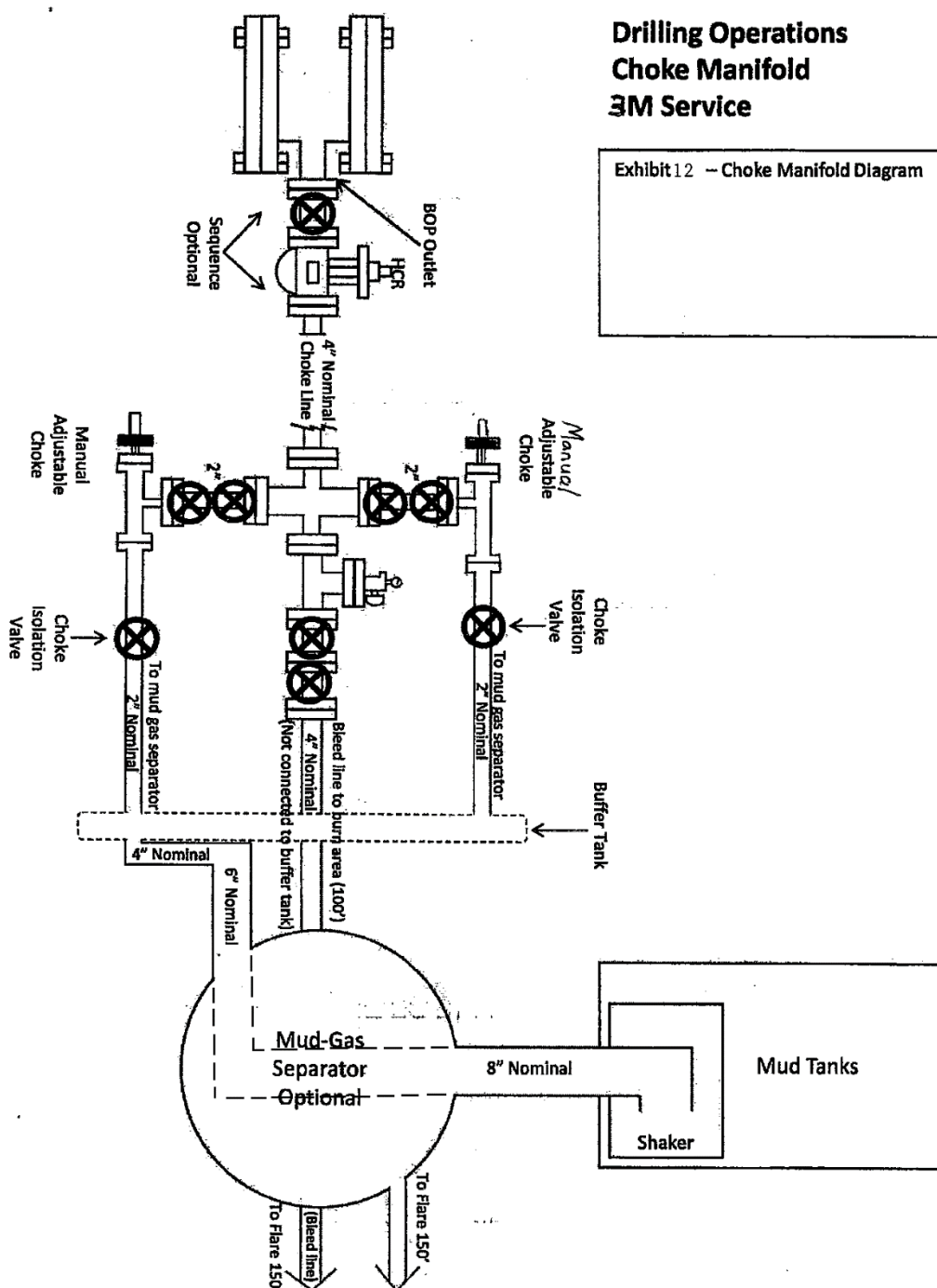
No.		3,000 MWP			5,000 MWP			10,000 MWP		
		I.D.	Nominal	Rating	I.D.	Nominal	Rating	I.D.	Nominal	Rating
1	Line from drilling Spool		3"	3,000		3"	5,000		3"	10,000
2	Cross 3" x 3" x 3" x 2"			3,000			5,000			
2	Cross 3" x 3" x 3" x 2"									10,000
3	Valve Gate Plug	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000
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

- (1) Only one required in Class 3M
- (2) Gate valves only shall be used for Class 10 M
- (3) Remote operated hydraulic choke required on 5,000 psi and 10,000 psi for drilling.

EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTION

1. All connections in choke manifold shall be welded, studded, flanged or Cameron clamp of comparable rating.
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 be as straight as possible. Lines downstream from chokes shall make turns by large bends or 90 degree bends using bull plugged tees

Exhibit #12



Westmount Federal 1H, Plan 1

Operator	Mack Energy Corp			Units	feet, °/100ft		09:26 Friday, March 18, 2022 Page 1 of 4			
Field	Round Tank			County	Chaves		Vertical Section Azimuth		90.04	
Well Name	Westmount Federal 1H			State	New Mexico		Survey Calculation Method		Minimum Curvature	
Plan	1			Country	USA		Database		Access	
Location	SL: 330 FSL & 400 FWL Section 27-T15S-R28E BHL: 330 FSL & 1 FEL Section 27-T15S-R28E				Map Zone	UTM		Lat Long Ref		
Site					Surface X	1908134.7		Surface Long		
Slot Name					Surface Y	11972671.4		Surface Lat		
Well Number	1H				Surface Z	3617.7		Global Z Ref KB		
Project					Ground Level	3599.7		Local North Ref Grid		
DIRECTIONAL WELL PLAN										
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft
*** TIE (at MD = 1900.00)										
1900.00	0.00	0.0	1900.00	0.00	0.00		0.00	1908134.70	11972671.40	1717.70
1950.00	0.00	0.0	1950.00	0.00	0.00	0.00	0.00	1908134.70	11972671.40	1667.70
*** KOP 8 DEGREES (at MD = 2000.00)										
2000.00	0.00	0.0	2000.00	0.00	0.00	0.00	0.00	1908134.70	11972671.40	1617.70
2050.00	4.00	90.0	2049.96	0.00	1.74	8.00	1.74	1908136.44	11972671.40	1567.74
2100.00	8.00	90.0	2099.68	0.00	6.97	8.00	6.97	1908141.67	11972671.40	1518.02
2150.00	12.00	90.0	2148.91	-0.01	15.65	8.00	15.65	1908150.35	11972671.39	1468.79
2200.00	16.00	90.0	2197.41	-0.02	27.74	8.00	27.74	1908162.44	11972671.38	1420.29
2250.00	20.00	90.0	2244.95	-0.03	43.19	8.00	43.19	1908177.89	11972671.37	1372.75
2300.00	24.00	90.0	2291.30	-0.04	61.92	8.00	61.92	1908196.62	11972671.36	1326.40
2350.00	28.00	90.0	2336.23	-0.06	83.83	8.00	83.83	1908218.53	11972671.34	1281.47
2400.00	32.00	90.0	2379.53	-0.08	108.83	8.00	108.83	1908243.53	11972671.32	1238.17
2450.00	36.00	90.0	2420.97	-0.10	136.78	8.00	136.78	1908271.48	11972671.30	1196.73
2500.00	40.00	90.0	2460.36	-0.12	167.56	8.00	167.56	1908302.26	11972671.28	1157.34
2550.00	44.00	90.0	2497.51	-0.14	201.01	8.00	201.01	1908335.71	11972671.26	1120.19
2600.00	48.00	90.0	2532.24	-0.17	236.97	8.00	236.97	1908371.67	11972671.23	1085.46
2650.00	52.00	90.0	2564.37	-0.19	275.26	8.00	275.26	1908409.96	11972671.21	1053.33
*** 55 DEGREE TANGENT (at MD = 2687.50)										
2687.50	55.00	90.0	2586.67	-0.21	305.40	8.00	305.40	1908440.10	11972671.19	1031.03
2700.00	55.00	90.0	2593.84	-0.22	315.64	0.00	315.64	1908450.34	11972671.18	1023.86
2750.00	55.00	90.0	2622.52	-0.25	356.60	0.00	356.60	1908491.30	11972671.15	995.18
2800.00	55.00	90.0	2651.20	-0.28	397.56	0.00	397.56	1908532.26	11972671.12	966.50
2850.00	55.00	90.0	2679.88	-0.31	438.52	0.00	438.52	1908573.22	11972671.09	937.82
*** 10 DEGREE BUILD (at MD = 2887.50)										
2887.50	55.00	90.0	2701.39	-0.33	469.23	0.00	469.23	1908603.93	11972671.07	916.31
2900.00	56.25	90.0	2708.45	-0.33	479.55	10.00	479.55	1908614.25	11972671.07	909.25
2950.00	61.25	90.0	2734.38	-0.36	522.28	10.00	522.28	1908656.98	11972671.04	883.32
3000.00	66.25	90.0	2756.49	-0.40	567.11	10.00	567.11	1908701.81	11972671.00	861.22
3050.00	71.25	90.0	2774.60	-0.43	613.70	10.00	613.70	1908748.40	11972670.97	843.10
3100.00	76.25	90.0	2788.59	-0.46	661.68	10.00	661.68	1908796.38	11972670.94	829.11
3150.00	81.25	90.0	2798.34	-0.50	710.71	10.00	710.71	1908845.41	11972670.90	819.36
3200.00	86.25	90.0	2803.78	-0.53	760.40	10.00	760.40	1908895.10	11972670.87	813.92
*** LANDING POINT (at MD = 3219.50)										
3219.50	88.20	90.0	2804.73	-0.54	779.87	10.00	779.87	1908914.57	11972670.86	812.97
3250.00	88.20	90.0	2805.68	-0.57	810.36	0.00	810.36	1908945.06	11972670.83	812.02
3300.00	88.20	90.0	2807.25	-0.60	860.33	0.00	860.33	1908995.03	11972670.80	810.45
3350.00	88.20	90.0	2808.82	-0.64	910.31	0.00	910.31	1909045.01	11972670.76	808.88
3400.00	88.20	90.0	2810.39	-0.67	960.28	0.00	960.28	1909094.98	11972670.73	807.31

Westmount Federal 1H, Plan 1

Operator	Mack Energy Corp	Units	feet, °/100ft	09:26 Friday, March 18, 2022	Page 2 of 4
Field	Round Tank	County	Chaves	Vertical Section Azimuth	90.04
Well Name	Westmount Federal 1H	State	New Mexico	Survey Calculation Method	Minimum Curvature
Plan	1	Country	USA	Database	Access

Location	SL: 330 FSL & 400 FWL Section 27-T15S-R28E BHL: 330 FSL & 1 FEL Section 27-T15S-R28E			Map Zone	UTM	Lat Long Ref	
Site				Surface X	1908134.7	Surface Long	
Slot Name				Surface Y	11972671.4	Surface Lat	
Well Number	1H	UWI		Surface Z	3617.7	Global Z Ref	KB
Project		MD/TVD Ref	KB	Ground Level	3599.7	Local North Ref	Grid

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft
3450.00	88.20	90.0	2811.97	-0.71	1010.26	0.00	1010.26	1909144.96	11972670.69	805.73
3500.00	88.20	90.0	2813.54	-0.74	1060.23	0.00	1060.23	1909194.93	11972670.66	804.16
3550.00	88.20	90.0	2815.11	-0.78	1110.21	0.00	1110.21	1909244.91	11972670.62	802.59
3600.00	88.20	90.0	2816.68	-0.81	1160.18	0.00	1160.18	1909294.88	11972670.59	801.02
3650.00	88.20	90.0	2818.25	-0.84	1210.16	0.00	1210.16	1909344.86	11972670.56	799.45
3700.00	88.20	90.0	2819.82	-0.88	1260.13	0.00	1260.13	1909394.83	11972670.52	797.88
3750.00	88.20	90.0	2821.39	-0.91	1310.11	0.00	1310.11	1909444.81	11972670.49	796.31
3800.00	88.20	90.0	2822.96	-0.95	1360.09	0.00	1360.09	1909494.79	11972670.45	794.74
3850.00	88.20	90.0	2824.53	-0.98	1410.06	0.00	1410.06	1909544.76	11972670.42	793.17
3900.00	88.20	90.0	2826.10	-1.02	1460.04	0.00	1460.04	1909594.74	11972670.38	791.60
3950.00	88.20	90.0	2827.67	-1.05	1510.01	0.00	1510.01	1909644.71	11972670.35	790.03
4000.00	88.20	90.0	2829.24	-1.09	1559.99	0.00	1559.99	1909694.69	11972670.31	788.46
4050.00	88.20	90.0	2830.81	-1.12	1609.96	0.00	1609.96	1909744.66	11972670.28	786.89
4100.00	88.20	90.0	2832.38	-1.16	1659.94	0.00	1659.94	1909794.64	11972670.24	785.32
4150.00	88.20	90.0	2833.95	-1.19	1709.91	0.00	1709.91	1909844.61	11972670.21	783.75
4200.00	88.20	90.0	2835.52	-1.23	1759.89	0.00	1759.89	1909894.59	11972670.17	782.18
4250.00	88.20	90.0	2837.09	-1.26	1809.86	0.00	1809.86	1909944.56	11972670.14	780.61
4300.00	88.20	90.0	2838.66	-1.30	1859.84	0.00	1859.84	1909994.54	11972670.10	779.04
4350.00	88.20	90.0	2840.24	-1.33	1909.81	0.00	1909.81	1910044.51	11972670.07	777.46
4400.00	88.20	90.0	2841.81	-1.37	1959.79	0.00	1959.79	1910094.49	11972670.03	775.89
4450.00	88.20	90.0	2843.38	-1.40	2009.76	0.00	2009.76	1910144.46	11972670.00	774.32
4500.00	88.20	90.0	2844.95	-1.44	2059.74	0.00	2059.74	1910194.44	11972669.96	772.75
4550.00	88.20	90.0	2846.52	-1.47	2109.71	0.00	2109.72	1910244.41	11972669.93	771.18
4600.00	88.20	90.0	2848.09	-1.51	2159.69	0.00	2159.69	1910294.39	11972669.89	769.61
4650.00	88.20	90.0	2849.66	-1.54	2209.67	0.00	2209.67	1910344.37	11972669.86	768.04
4700.00	88.20	90.0	2851.23	-1.58	2259.64	0.00	2259.64	1910394.34	11972669.82	766.47
4750.00	88.20	90.0	2852.80	-1.61	2309.62	0.00	2309.62	1910444.32	11972669.79	764.90
4800.00	88.20	90.0	2854.37	-1.65	2359.59	0.00	2359.59	1910494.29	11972669.75	763.33
4850.00	88.20	90.0	2855.94	-1.68	2409.57	0.00	2409.57	1910544.27	11972669.72	761.76
4900.00	88.20	90.0	2857.51	-1.72	2459.54	0.00	2459.54	1910594.24	11972669.68	760.19
4950.00	88.20	90.0	2859.08	-1.75	2509.52	0.00	2509.52	1910644.22	11972669.65	758.62
5000.00	88.20	90.0	2860.65	-1.79	2559.49	0.00	2559.49	1910694.19	11972669.61	757.05
5050.00	88.20	90.0	2862.22	-1.82	2609.47	0.00	2609.47	1910744.17	11972669.58	755.48
5100.00	88.20	90.0	2863.79	-1.86	2659.44	0.00	2659.44	1910794.14	11972669.54	753.91
5150.00	88.20	90.0	2865.36	-1.89	2709.42	0.00	2709.42	1910844.12	11972669.51	752.34
5200.00	88.20	90.0	2866.93	-1.93	2759.39	0.00	2759.39	1910894.09	11972669.47	750.77
5250.00	88.20	90.0	2868.50	-1.96	2809.37	0.00	2809.37	1910944.07	11972669.44	749.20

Westmount Federal 1H, Plan 1

Operator	Mack Energy Corp	Units	feet, °/100ft	09:26 Friday, March 18, 2022	Page 3 of 4
Field	Round Tank	County	Chaves	Vertical Section Azimuth	90.04
Well Name	Westmount Federal 1H	State	New Mexico	Survey Calculation Method	Minimum Curvature
Plan	1	Country	USA	Database	Access

Location	SL: 330 FSL & 400 FWL Section 27-T15S-R28E BHL: 330 FSL & 1 FEL Section 27-T15S-R28E			Map Zone	UTM	Lat Long Ref	
Site				Surface X	1908134.7	Surface Long	
Slot Name		UWI		Surface Y	11972671.4	Surface Lat	
Well Number	1H	API		Surface Z	3617.7	Global Z Ref	KB
Project		MD/TVD Ref	KB	Ground Level	3599.7	Local North Ref	Grid

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft
5300.00	88.20	90.0	2870.08	-2.00	2859.34	0.00	2859.35	1910994.04	11972669.40	747.62
5350.00	88.20	90.0	2871.65	-2.03	2909.32	0.00	2909.32	1911044.02	11972669.37	746.05
5400.00	88.20	90.0	2873.22	-2.07	2959.30	0.00	2959.30	1911094.00	11972669.33	744.48
5450.00	88.20	90.0	2874.79	-2.10	3009.27	0.00	3009.27	1911143.97	11972669.30	742.91
5500.00	88.20	90.0	2876.36	-2.14	3059.25	0.00	3059.25	1911193.95	11972669.26	741.34
5550.00	88.20	90.0	2877.93	-2.17	3109.22	0.00	3109.22	1911243.92	11972669.23	739.77
5600.00	88.20	90.0	2879.50	-2.21	3159.20	0.00	3159.20	1911293.90	11972669.19	738.20
5650.00	88.20	90.0	2881.07	-2.24	3209.17	0.00	3209.17	1911343.87	11972669.16	736.63
5700.00	88.20	90.0	2882.64	-2.28	3259.15	0.00	3259.15	1911393.85	11972669.12	735.06
5750.00	88.20	90.0	2884.21	-2.31	3309.12	0.00	3309.12	1911443.82	11972669.09	733.49
5800.00	88.20	90.0	2885.78	-2.35	3359.10	0.00	3359.10	1911493.80	11972669.05	731.92
5850.00	88.20	90.0	2887.35	-2.38	3409.07	0.00	3409.07	1911543.77	11972669.02	730.35
5900.00	88.20	90.0	2888.92	-2.41	3459.05	0.00	3459.05	1911593.75	11972668.99	728.78
5950.00	88.20	90.0	2890.49	-2.45	3509.02	0.00	3509.02	1911643.72	11972668.95	727.21
6000.00	88.20	90.0	2892.06	-2.48	3559.00	0.00	3559.00	1911693.70	11972668.92	725.64
6050.00	88.20	90.0	2893.63	-2.52	3608.97	0.00	3608.98	1911743.67	11972668.88	724.07
6100.00	88.20	90.0	2895.20	-2.55	3658.95	0.00	3658.95	1911793.65	11972668.85	722.50
6150.00	88.20	90.0	2896.77	-2.59	3708.92	0.00	3708.93	1911843.62	11972668.81	720.93
6200.00	88.20	90.0	2898.35	-2.62	3758.90	0.00	3758.90	1911893.60	11972668.78	719.36
6250.00	88.20	90.0	2899.92	-2.66	3808.88	0.00	3808.88	1911943.58	11972668.74	717.78
6300.00	88.20	90.0	2901.49	-2.69	3858.85	0.00	3858.85	1911993.55	11972668.71	716.21
6350.00	88.20	90.0	2903.06	-2.73	3908.83	0.00	3908.83	1912043.53	11972668.67	714.64
6400.00	88.20	90.0	2904.63	-2.76	3958.80	0.00	3958.80	1912093.50	11972668.64	713.07
6450.00	88.20	90.0	2906.20	-2.80	4008.78	0.00	4008.78	1912143.48	11972668.60	711.50
6500.00	88.20	90.0	2907.77	-2.83	4058.75	0.00	4058.75	1912193.45	11972668.57	709.93
6550.00	88.20	90.0	2909.34	-2.87	4108.73	0.00	4108.73	1912243.43	11972668.53	708.36
6600.00	88.20	90.0	2910.91	-2.90	4158.70	0.00	4158.70	1912293.40	11972668.50	706.79
6650.00	88.20	90.0	2912.48	-2.94	4208.68	0.00	4208.68	1912343.38	11972668.46	705.22
6700.00	88.20	90.0	2914.05	-2.97	4258.65	0.00	4258.65	1912393.35	11972668.43	703.65
6750.00	88.20	90.0	2915.62	-3.01	4308.63	0.00	4308.63	1912443.33	11972668.39	702.08
6800.00	88.20	90.0	2917.19	-3.04	4358.60	0.00	4358.61	1912493.30	11972668.36	700.51
6850.00	88.20	90.0	2918.76	-3.08	4408.58	0.00	4408.58	1912543.28	11972668.32	698.94
6900.00	88.20	90.0	2920.33	-3.11	4458.55	0.00	4458.56	1912593.25	11972668.29	697.37
6950.00	88.20	90.0	2921.90	-3.15	4508.53	0.00	4508.53	1912643.23	11972668.25	695.80
7000.00	88.20	90.0	2923.47	-3.18	4558.51	0.00	4558.51	1912693.21	11972668.22	694.23
7050.00	88.20	90.0	2925.04	-3.22	4608.48	0.00	4608.48	1912743.18	11972668.18	692.66
7100.00	88.20	90.0	2926.61	-3.25	4658.46	0.00	4658.46	1912793.16	11972668.15	691.09

Westmount Federal 1H, Plan 1

Operator	Mack Energy Corp	Units	feet, °/100ft	09:26 Friday, March 18, 2022 Page 4 of 4	
Field	Round Tank	County	Chaves	Vertical Section Azimuth	90.04
Well Name	Westmount Federal 1H	State	New Mexico	Survey Calculation Method	Minimum Curvature
Plan	1	Country	USA	Database	Access
Location	SL: 330 FSL & 400 FWL Section 27-T15S-R28E BHL: 330 FSL & 1 FEL Section 27-T15S-R28E			Map Zone	UTM
Site				Surface X	1908134.7
Slot Name				Surface Y	11972671.4
Well Number	1H	API		Surface Z	3617.7
Project		MD/TVD Ref	KB	Ground Level	3599.7
				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*
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft
7150.00	88.20	90.0	2928.19	-3.29	4708.43	0.00	4708.43	1912843.13	11972668.11	689.51
7200.00	88.20	90.0	2929.76	-3.32	4758.41	0.00	4758.41	1912893.11	11972668.08	687.94
7250.00	88.20	90.0	2931.33	-3.36	4808.38	0.00	4808.38	1912943.08	11972668.04	686.37
7300.00	88.20	90.0	2932.90	-3.39	4858.36	0.00	4858.36	1912993.06	11972668.01	684.80
*** TD (at MD = 7342.50)										
7342.50	88.20	90.0	2934.23	-3.42	4900.84	0.00	4900.84	1913035.54	11972667.98	683.47

**PECOS DISTRICT
DRILLING OPERATIONS
CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	Mack Energy Corporation
LEASE NO.:	NMNM-132939
WELL NAME & NO.:	Westmount Federal 1H
SURFACE HOLE FOOTAGE:	0330' FSL & 0400' FWL
BOTTOM HOLE FOOTAGE:	0330' FSL & 0001' FEL Sec. 27, T. 15 S., R 28 E.
LOCATION:	Section 27, T. 15 S., R 28 E., NMPM
COUNTY:	Chaves County, New Mexico

The Gamma Ray and Neutron well logs must be run from total depth to surface and e-mailed to Aleksandr Knapowski at cknapowski@blm.gov or hard copy mailed to 2909 West Second Street Roswell, NM 88201 to his attention.

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ **Chaves and Roosevelt Counties**

Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.

During office hours call (575) 627-0272.

After hours call (575) 627-0205.

A. Hydrogen Sulfide

1. **Hydrogen Sulfide (H₂S) monitors shall be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.**
2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. **If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a “Major” violation.**
3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.

4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Medium Cave/Karst

Possibility of water flows in the Queen, Rustler, Salado and Artesia Group.
Possibility of lost circulation in the Rustler, Artesia Group, and San Andres.

1. The **13-3/8** inch surface casing shall be set at approximately **200** feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. **If salt is encountered, set casing at least 25 feet above the salt.**
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.**
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

☒ Cement to surface. If cement does not circulate see B.1.a, c-d above.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

3. The minimum required fill of cement behind the **7 X 5-1/2** inch production casing is:

☒ Cement to surface. If cement does not circulate, contact the appropriate BLM office.

4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API 53.

2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M) psi (Installing 3M BOP, testing to 2,000 psi)**.
3. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.
 - c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - d. The results of the test shall be reported to the appropriate BLM office.
 - e. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.**
 - f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

JAM 09082022

Attached to Form 3160-3
Mack Energy Corporation
Westmount Federal #1H NMNM-132939
SHL : 330 FSL & 400 FWL, SWSW, Sec. 27 T15S R28E
BHL : 330 FSL & 1 FEL, SESE, Sec. 27 T15S R28E
Chaves County, NM

**Mack Energy Corporation
Onshore Order #6
Hydrogen Sulfide Drilling Operation Plan**

I. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

1. The hazards and characteristics of hydrogen sulfide (H₂S)
2. The proper use and maintenance of personal protective equipment and life support systems.
3. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

1. The effects of H₂S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
3. The contents and requirements of the H₂S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan. **The concentrations of H₂S of wells in this area from surface to TD are low enough that a contingency plan is not required.**

II. H₂S SAFETY EQUIPMENT AND SYSTEMS

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H₂S.

1. Well Control Equipment:

- A. Flare line.
- B. Choke manifold.
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
- D. Auxiliary equipment may include if applicable: annular preventer & rotating head.

Attached to Form 3160-3
Mack Energy Corporation
Westmount Federal #1H NMNM-132939
SHL : 330 FSL & 400 FWL, SWSW, Sec. 27 T15S R28E
BHL : 330 FSL & 1 FEL, SESE, Sec. 27 T15S R28E
Chaves County, NM

2. Protective equipment for essential personnel:

- A. Mark II Survive air 30-minute units located in the doghouse and at briefing areas, as indicated on well site diagram.

3. H2S detection and monitoring equipment:

- A. 1 portable H2S monitors positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 PPM are reached.

4. Visual warning systems:

- A. Wind direction indicators as shown on well site diagram (Exhibit #8).
- B. Caution/Danger signs (Exhibit #7) shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.

5. Mud program:

- A. The mud program has been designed to minimize the volume of H2S circulated to surface. Proper mud weight, safe drilling practices and the use of H2S scavengers will minimize hazards when penetrating H2S bearing zones.

6. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
- B. All elastomers used for packing and seals shall be H2S trim.

7. Communication:

- A. Radio communications in company vehicles including cellular telephone and 2-way radio.
- B. Land line (telephone) communication at Office.

8. Well testing:

- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safely and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H2S environment will use the closed chamber method of testing.

Attached to Form 3160-3

Mack Energy Corporation

Westmount Federal #1H NMNM-132939

SHL : 330 FSL & 400 FWL, SWSW, Sec. 27 T15S R28E

BHL : 330 FSL & 1 FEL, SESE, Sec. 27 T15S R28E

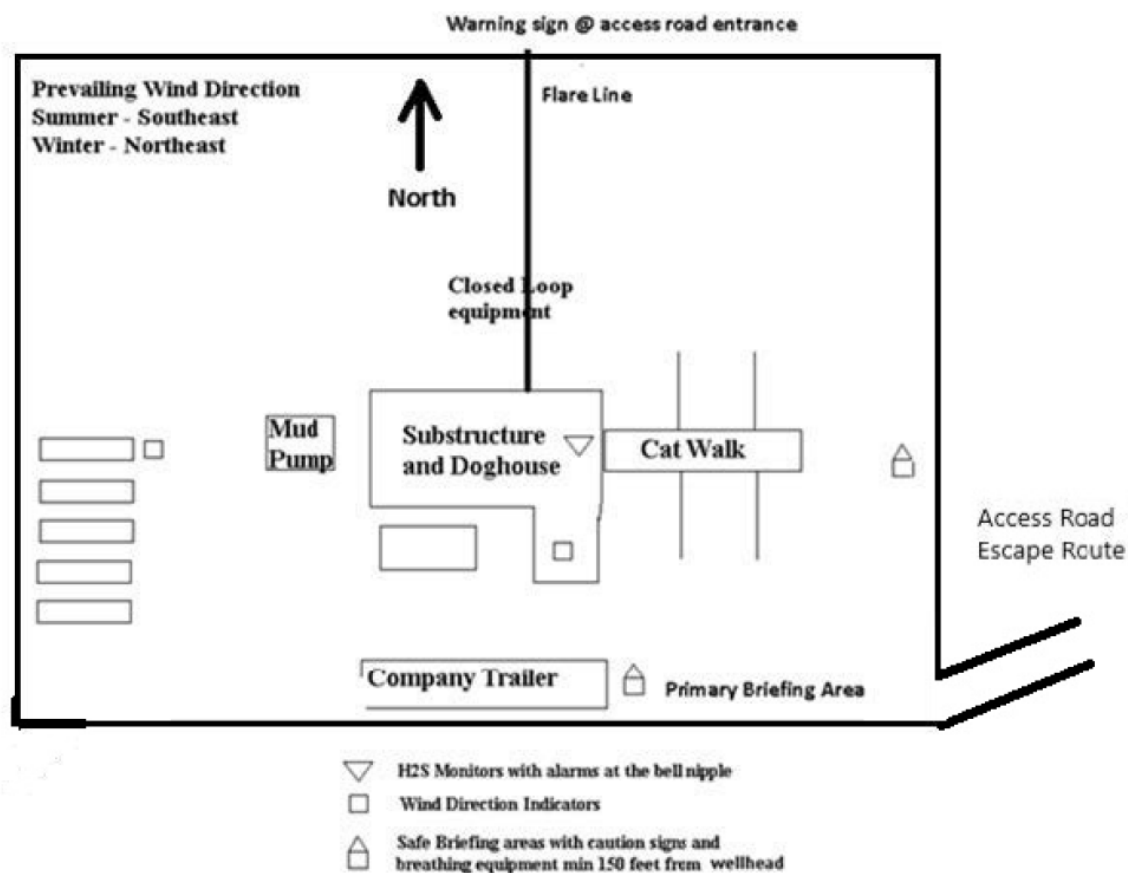
Chaves County, NM

B. There will be no drill stem testing.

EXHIBIT #7

WARNING**YOU ARE ENTERING AN H2S
AUTHORIZED PERSONNEL ONLY**

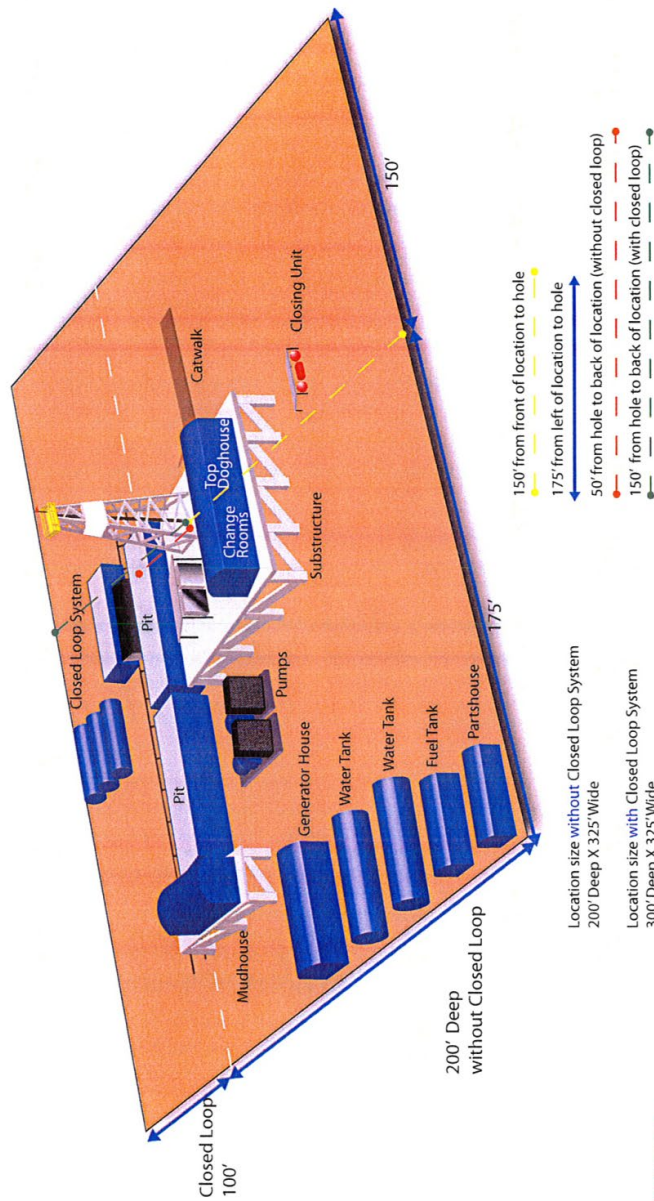
1. BEARDS OR CONTACT LENSES NOT ALLOWED
2. HARD HATS REQUIRED
3. SMOKING IN DESIGNATED AREAS ONLY
4. BE WIND CONSCIOUS AT ALL TIMES
5. CHECK WITH MACK ENERGY FOREMAN AT OFFICE

MACK ENERGY CORPORATION**1-575-748-1288**

DRILLING LOCATION H2S SAFETY EQUIPMENT

Exhibit # 8

Location Layout



Silver Oak Drilling ~ 10 Bilco Road, Artesia, NM 88210 ~ 575.746.4405
info@silveroakdrilling.com ~ www.silveroakdrilling.com

Mack Energy Corporation Call List, Chaves County

Artesia (575)	Cellular	Office
Jim Krogman.....	432-934-1596.....	748-1288
Emilio Martinez.....	432-934-7586.....	748-1288

Agency Call List (575)**Roswell**

State Police.....	622-7200
City Police.....	624-6770
Sheriff's Office.....	624-7590
Ambulance.....	624-7590
Fire Department.....	624-7590
LEPC (Local Emergency Planning Committee.....	624-6770
NMOCD.....	748-1283
Bureau of Land Management.....	627-0272

Emergency Services

Boots & Coots IWC.....	1-800-256-9688 or (281)931-8884
Cudd pressure Control.....	(915)699-0139 or (915)563-3356
Halliburton.....	746-2757
Par Five.....	748-9539
Flight For Life-Lubbock, TX.....	(806)743-9911
Aerocare-Lubbock, TX.....	(806)747-8923
Med Flight Air Amb-Albuquerque, NM.....	(505)842-4433
Lifeguard Air Med Svc. Albuquerque, NM.....	(505)272-3115

Intent ☒ As Drilled ☐

API #		
Operator Name: MACK ENERGY CORPORATION	Property Name: WESTMOUNT FEDERAL	Well Number 1H

Kick Off Point (KOP)

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

First Take Point (FTP)

UL M	Section 27	Township 15S	Range 28E	Lot	Feet 330	From N/S SOUTH	Feet 1100	From E/W WEST	County CHAVES
Latitude 32.9808355					Longitude 104.1248461				NAD 83

Last Take Point (LTP)

UL P	Section 27	Township 15S	Range 28E	Lot	Feet 330	From N/S SOUTH	Feet 100	From E/W EAST	County CHAVES
Latitude 32.9808047					Longitude 104.1115415				NAD 83

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

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

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Drilling Plan Data Report

03/01/2023

APD ID: 10400083986

Submission Date: 05/04/2022

Highlighted data
reflects the most
recent changes

Operator Name: MACK ENERGY CORPORATION

Well Name: WESTMOUNT FEDERAL

Well Number: 1H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
8364904	YATES	3599	458	458	SILTSTONE	NATURAL GAS, OIL	N
8364905	SEVEN RIVERS	2892	707	707	DOLOMITE, SILTSTONE	NATURAL GAS, OIL	N
8364906	QUEEN	2409	1190	1190	SILTSTONE	NATURAL GAS, OIL	N
8364907	GRAYBURG	2000	1599	1599	DOLOMITE, SILTSTONE	NATURAL GAS, OIL	N
8364908	SAN ANDRES	1690	1909	1909	DOLOMITE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 3M

Rating Depth: 7343

Equipment: Rotating Head, Mud-Gas Separator

Requesting Variance? NO

Variance request:

Testing Procedure: The BOP/BOPE test shall include a low pressure test for 250 to 300psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. The estimated bottom hole at TD is 120 degrees and estimated maximum bottom hole pressure is 1404psig (0.052*2934.23*9.2ppg) less than 2900 bottom hole pressure. Will test to 2000psi for 30 mins.

Choke Diagram Attachment:

choke_manifold_20220321094817.pdf

choke_manifold_diagram_20220321094823.pdf

BOP Diagram Attachment:

bop_diagram_20220321094831.pdf

Mack Energy Corporation

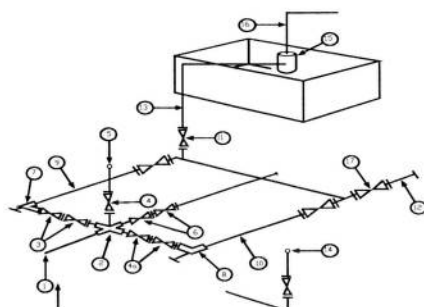
Exhibit #11

MINIMUM CHOKE MANIFOLD

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

3M will be used

3 MWP - 5 MWP - 10 MWP



Mud Pit

Reserve Pit

* Location of separator optional

Below Substructure

Minimum requirements

No.		3,000 MWP			5,000 MWP			10,000 MWP		
		I.D.	Nominal	Rating	I.D.	Nominal	Rating	I.D.	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' x 5'			2' x 5'			2' x 5'	
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

(1) Only one required in Class 3M

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

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

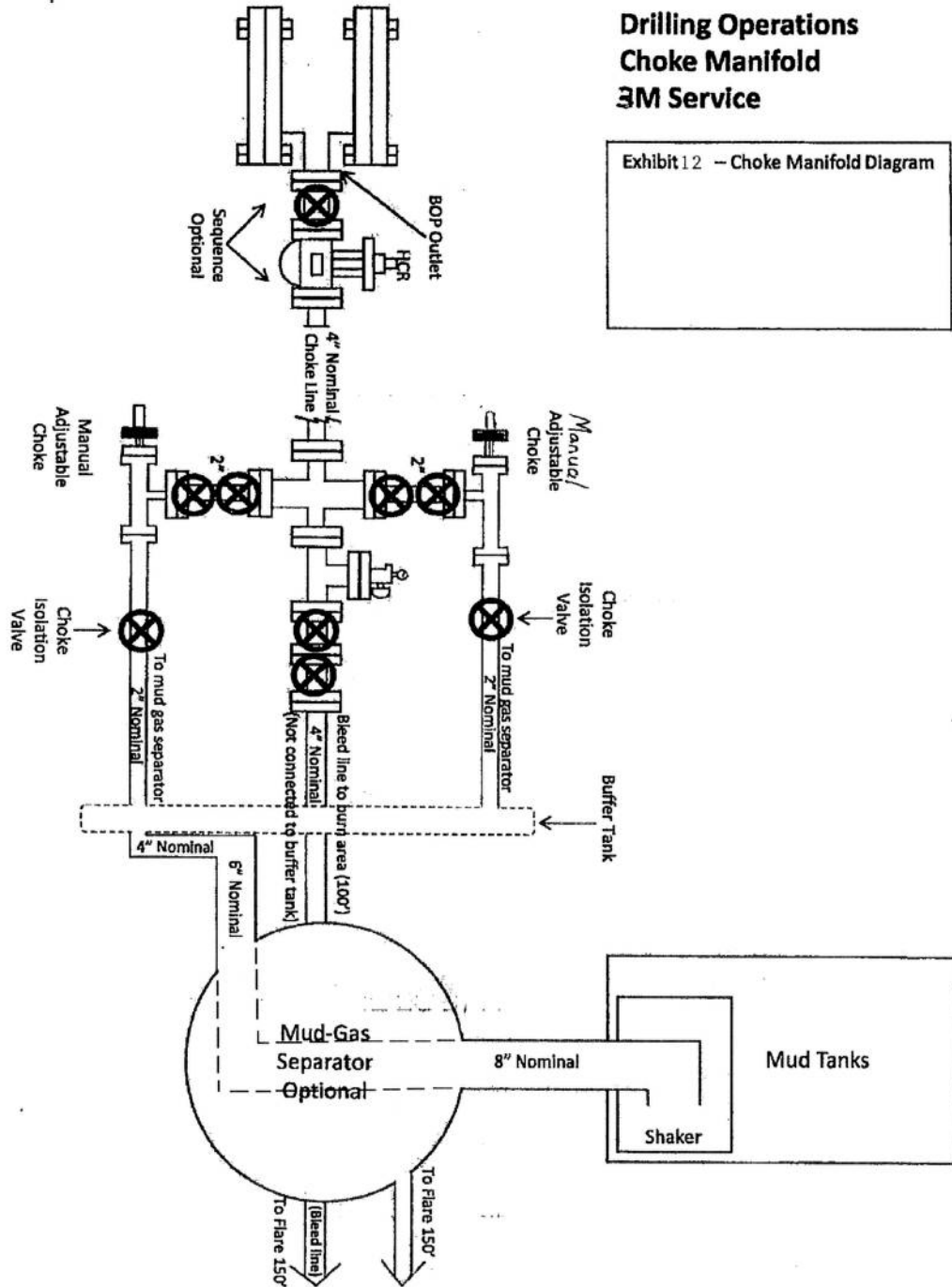
EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTION

- All connections in choke manifold shall be welded, studded, flanged or Cameron clamp of comparable rating.
- All flanges shall be API 6B or 6BX and ring gaskets shall be API RX or BX. Use only BX for 10 MWP.
- All lines shall be securely anchored.
- Chokes shall be equipped with tungsten carbide seats and needles, and replacements shall be available.
- alternate with automatic chokes, a choke manifold pressure gauge shall be located on the rig floor in conjunction with the standpipe pressure gauge.
- Line from drilling spool to choke manifold should be 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

**Drilling Operations
Choke Manifold
3M Service**

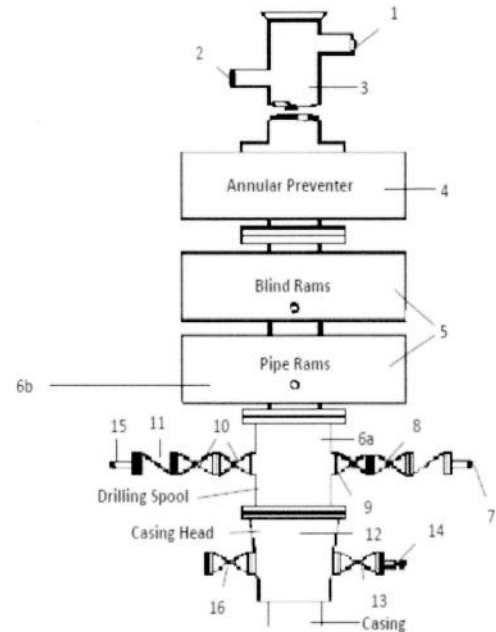
Exhibit 12 - Choke Manifold Diagram



Mack Energy Corporation
Minimum Blowout Preventer Requirements
5000 psi Working Pressure
13 5/8 inch- 5 MWP
11 Inch - 5 MWP

Stack Requirements

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



OPTIONAL

16	Flanged Valve	1 13/16	
----	---------------	---------	--

CONTRACTOR'S OPTION TO FURNISH:

1. All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 2000 psi minimum.
2. 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.
5. 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.
8. Extra set pipe rams to fit drill pipe in use on location at all times.
9. 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.

10.

ME

GENERAL NOTES:

1. Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
2. 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.
3. Controls to be of standard design and each marked, showing opening and closing position
4. 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.

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

District I

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

District II

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

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

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

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

CONDITIONS

Action 192139

CONDITIONS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID:
	13837
	Action Number: 192139
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Notify OCD 24 hours prior to casing & cement	3/10/2023
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	3/10/2023
kpickford	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	3/10/2023
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	3/10/2023
kpickford	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	3/10/2023