

Form 3160-3  
(October 2024)FORM APPROVED  
OMB No. 1004-0220  
Expires: October 31, 2027

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

1a. Type of work:	<input checked="" type="checkbox"/> DRILL	<input type="checkbox"/> REENTER	7. If Unit or CA Agreement, Name and No.	
1b. Type of Well:	<input checked="" type="checkbox"/> Oil Well	<input type="checkbox"/> Gas Well	8. Lease Name and Well No.	
1c. Type of Completion:	<input type="checkbox"/> Hydraulic Fracturing	<input checked="" type="checkbox"/> Single Zone	<input type="checkbox"/> Multiple Zone	ZN 4 9 FED COM 615H
2. Name of Operator	CHEVRON USA INCORPORATED			9. API Well No. <b>30-025-55705</b>
3a. Address	3b. Phone No. (include area code) PO BOX 1392, BAKERSFIELD, CA 93302 (661) 633-4000			10. Field and Pool, or Exploratory ANTELOPE RIDGE/WOLFCAMP
4. Location of Well (Report location clearly and in accordance with any State requirements. *)	At surface SESE / 628 FSL / 724 FEL / LAT 32.255552 / LONG -103.46877 At proposed prod. zone SESE / 25 FSL / 330 FEL / LAT 32.224867 / LONG -103.467445			11. Sec., T. R. M. or Blk. and Survey or Area SEC 33/T23S/R34E/NMP
14. Distance in miles and direction from nearest town or post office*	26.36 miles			12. County or Parish LEA
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	628 feet	16. No of acres in lease	17. Spacing Unit dedicated to this well 640.0	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	100 feet	19. Proposed Depth	20. BLM/BIA Bond No. in file 11390 feet / 22183 feet FED: NMB105511982	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	3510 feet	22. Approximate date work will start*	23. Estimated duration 03/29/2028 160 days	
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.	4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
2. A Drilling Plan.	5. Operator certification.
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).	6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature (Electronic Submission)	Name (Printed/Typed) CINDY HERRERA-MURILLO / Ph: (432) 687-7866	Date 06/30/2025
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Title

Permitting Specialist

Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) CODY LAYTON / Ph: (575) 234-5959	Date 10/23/2025
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Title

Assistant Field Manager Lands &amp; Minerals

Office

Carlsbad Field 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)

**APPROVED WITH CONDITIONS**

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

## WELL LOCATION INFORMATION

API Number <b>30-025-55705</b>	N/A	Pool Code 2220	Pool Name ANTELOPE RIDGE; WOLFCAMP				
Property Code <b>338339</b>	N/A	Property Name ZN 4 9 FED COM			Well Number 615H		
OGRID No. 4323		Operator Name CHEVRON U.S.A. INC.			Ground Level Elevation 3510'		
Surface Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal				Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal			

## Surface Location

UL P	Section 33	Township 23S	Range 34E	Lot N/A	Ft. from South 628	Ft. from East 724	Latitude 32.255552° N	Longitude 103.468770° W	County LEA
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## Bottom Hole Location

UL P	Section 9	Township 24S	Range 34E	Lot N/A	Ft. from South 25	Ft. from East 330	Latitude 32.224867° N	Longitude 103.467445° W	County LEA
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Dedicated Acres 640	Infill or Defining Well INFILL	Defining Well API PENDING- ZN 4 9 Fed Com 614H	Overlapping Spacing Unit (Y/N) NO	Consolidation Code P
Order Numbers. N/A			Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

## Kick Off Point (KOP)

UL I	Section 33	Township 23S	Range 34E	Lot N/A	Ft. from South 2390	Ft. from East 330	Latitude 32.260396° N	Longitude 103.467506° W	County LEA
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## First Take Point (FTP)

UL A	Section 4	Township 24S	Range 34E	Lot 1	Ft. from North 100	Ft. from East 330	Latitude 32.253551° N	Longitude 103.467491° W	County LEA
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## Last Take Point (LTP)

UL P	Section 9	Township 24S	Range 34E	Lot N/A	Ft. from South 100	Ft. from East 330	Latitude 32.225073° N	Longitude 103.467446° W	County LEA
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Unitized Area or Area of Uniform Interest N/A	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation: 3510'
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OPERATOR CERTIFICATIONS					SURVEYOR CERTIFICATIONS				
<p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</p> <p><i>Cindy Herrera-Murillo</i> 6/26/2025</p>					<p>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.</p> <p><i>Chad Harcrow</i></p>				
<p>Signature <i>Cindy Herrera-Murillo</i></p>					<p>Date 6/26/2025</p>				
<p>Printed Name <b>Cindy Herrera-Murillo</b></p>					<p>Certificate Number <b>17777</b></p>				
<p>Email Address <b>CHerreraMurillo@chevron.com</b></p>					<p>Date of Survey <b>09/09/2024</b></p>				

Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

## ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

(NAD 27 NM E)

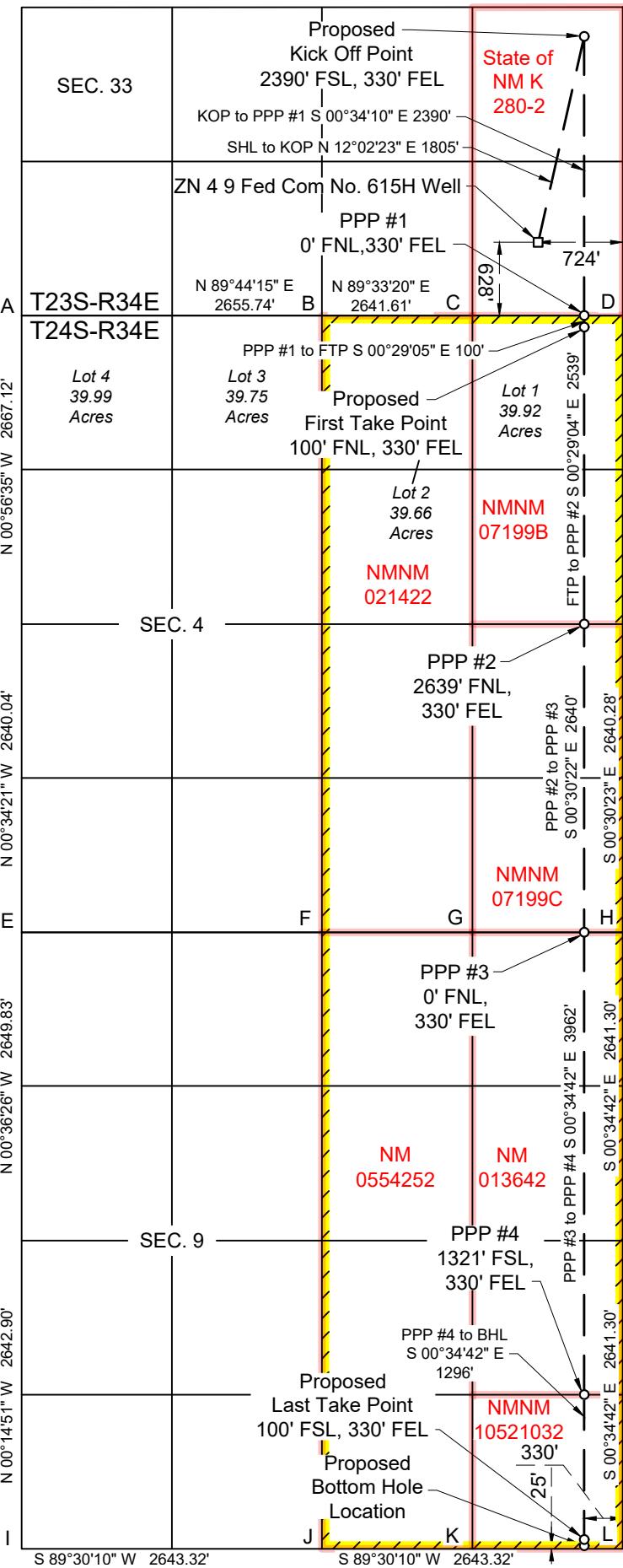
<b>ZN 4 9 FED COM NO. 615H WELL</b>	<b>PROPOSED KICK OFF POINT</b>	<b>PROPOSED FIRST TAKE POINT</b>
X=767,416.22	X=767,792.76	X=767,817.36
Y=457,719.94	Y=459,485.38	Y=456,995.50
LAT.32.255427°N	LAT.32.260272°N	LAT.32.253427°N
LONG.103.468293°W	LONG.103.467029°W	LONG.103.467015°W
<b>PPP #1</b>	<b>PPP #2</b>	<b>PPP #3</b>
X=767,816.51	X=767,838.82	X=767,862.14
Y=457,095.49	Y=454,456.95	Y=451,817.52
LAT.32.253702°N	LAT.32.246449°N	LAT.32.239194°N
LONG.103.467015°W	LONG.103.467011°W	LONG.103.467005°W
<b>PPP #4</b>	<b>PROPOSED LAST TAKE POINT</b>	<b>PROPOSED BOTTOM HOLE LOCATION</b>
X=767,902.13	X=767,914.51	X=767,915.21
Y=447,856.08	Y=446,635.60	Y=446,560.60
LAT.32.228304°N	LAT.32.224949°N	LAT.32.224743°N
LONG.103.466979°W	LONG.103.466971°W	LONG.103.466970°W

(NAD 83/2011 NM E)

<b>ZN 4 9 FED COM NO. 615H WELL</b>	<b>PROPOSED KICK OFF POINT</b>	<b>PROPOSED FIRST TAKE POINT</b>
X=808,600.24	X=808,976.75	X=809,001.40
Y=457,779.12	Y=459,544.62	Y=457,054.66
LAT.32.255552°N	LAT.32.260396°N	LAT.32.253551°N
LONG.103.468770°W	LONG.103.467506°W	LONG.103.467491°W
<b>PPP #1</b>	<b>PPP #2</b>	<b>PPP #3</b>
X=809,000.55	X=809,022.95	X=809,046.40
Y=457,154.66	Y=454,516.04	Y=451,876.55
LAT.32.253826°N	LAT.32.246573°N	LAT.32.239318°N
LONG.103.467491°W	LONG.103.467488°W	LONG.103.467481°W
<b>PPP #4</b>	<b>PROPOSED LAST TAKE POINT</b>	<b>PROPOSED BOTTOM HOLE LOCATION</b>
X=809,086.59	X=809,099.02	X=809,099.73
Y=447,915.01	Y=446,694.49	Y=446,619.49
LAT.32.228428°N	LAT.32.225073°N	LAT.32.224867°N
LONG.103.467454°W	LONG.103.467446°W	LONG.103.467445°W

CORNER COORDINATES  
(NAD 27 NM E)

- A - X=762850.31, Y=457089.73 1" IP
- B - X=765505.50, Y=457077.56 IP w/ CAP "1913"
- C - X=766826.00, Y=457087.81
- D - X=768146.50, Y=457098.05 IP w/ CAP "1913"
- E - X=762920.57, Y=451784.10 IP w/ CAP "1913"
- F - X=765556.36, Y=451801.93
- G - X=766874.25, Y=451810.84
- H - X=768192.14, Y=451819.76 IP w/ CAP "1913"
- I - X=762960.06, Y=446492.59 IP w/ CAP "1913"
- J - X=765602.76, Y=446515.53
- K - X=766924.10, Y=446527.00
- L - X=768245.45, Y=446538.47 IP w/ CAP "1913"



State of New Mexico  
Energy, Minerals and Natural Resources Department

Submit Electronically  
Via E-permitting

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

## NATURAL GAS MANAGEMENT PLAN

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

### Section 1 – Plan Description Effective May 25, 2021

**I. Operator:** Chevron USA Inc **OGRID:** 4323 **Date:** 05/28/2025

**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
ZN 4 9 FED COM 413H	Pending	UL-P Sec 33 23S 34E	558'FSL 796' FEL	1740 BBL/D	3555 MCF/D	3035 BBL/D
ZN 4 9 FED COM 414H	Pending	UL-P Sec33 23S 34E	586'FSL 767' FEL	1740 BBL/D	3555 MCF/D	3035 BBL/D
ZN 4 9 FED COM 415H	Pending	UL-P Sec33 23S 34E	614'FSL 739' FEL	1740 BBL/D	3555 MCF/D	3035 BBL/D
ZN 4 9 FED COM 613H	Pending	UL-P Sec33 23S 34E	572'FSL 782' FEL	1740 BBL/D	3555 MCF/D	3035 BBL/D
ZN 4 9 FED COM 614H	Pending	UL-P Sec33 23S 34E	600'FSL 753' FEL	1740 BBL/D	3555 MCF/D	3035 BBL/D
ZN 4 9 FED COM 615H	Pending	UL-P Sec33 23S 34E	628'FSL 724' FEL	1740 BBL/D	3555 MCF/D	3035 BBL/D

**IV. Central Delivery Point Name:** Central Tank Battery 34 [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
ZN 4 9 FED COM 413H	Pending	03/29/2028	N/A	N/A	N/A	N/A
ZN 4 9 FED COM 414H	Pending	03/29/2028	N/A	N/A	N/A	N/A
ZN 4 9 FED COM 415H	Pending	03/29/2028	N/A	N/A	N/A	N/A
ZN 4 9 FED COM 613H	Pending	03/29/2028	N/A	N/A	N/A	N/A
ZN 4 9 FED COM 614H	Pending	03/29/2028	N/A	N/A	N/A	N/A
ZN 4 9 FED COM 615H	Pending	03/29/2028	N/A	N/A	N/A	N/A

**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:	
Printed Name:	Cindy Herrera-Murillo
Title:	Sr HSE Regulatory affairs Coordinator
E-mail Address:	CHerreraMurillo@chevron.com
Date:	5/28/2025
Phone:	575-263-0431
<b>OIL CONSERVATION DIVISION</b> <b>(Only applicable when submitted as a standalone form)</b>	
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

**VI. Separation Equipment:**

Separation equipment installed at each Chevron facility is designed for maximum anticipated throughput and pressure to minimize waste. Separation equipment is designed and built according to ASME Sec VIII Div I to ensure gas is separated from liquid streams according to projected production.

**VII./VIII. Operational & Best Management Practices:****1. General Requirements for Venting and Flaring of Natural Gas:**

- In all circumstances, Chevron will flare rather than vent unless flaring is technically infeasible and venting of natural gas will avoid a risk of an immediate and substantial adverse impact on safety, public health, or the environment.
- Chevron installs and operates vapor recovery units (VRUs) in new facilities to minimize venting and flaring. If a VRU experiences operating issues, it is quickly assessed so that action can be taken to return the VRU to operation or, if necessary, facilities are shut-in to reduce the venting or flaring of natural gas.

**2. During Drilling Operations:**

- Flare stacks will be located a minimum of 110 feet from the nearest surface hole location.
- If an emergency or malfunction occurs, gas will be flared or vented to avoid a risk of an immediate and substantial adverse impact on public health, safety or the environment and be properly reported to the NMOCD pursuant to 19.15.27.8.G.
- Natural gas is captured or combusted if technically feasible using best industry practices and control technologies, such as the use of separators (e.g., Sand Commanders) during normal drilling and completions operations.

**3. During Completions:**

- Chevron typically does not complete traditional flowback, instead Chevron will flow produced oil, water, and gas to a centralized tank battery and continuously recover salable quality gas. If Chevron completes traditional flowback, Chevron conducts reduced emission completions as required by 40 CFR 60.5375a by routing gas to a gas flow line as soon as practicable once there is enough gas to operate a separator. Venting does not occur once there is enough gas to operate a separator
- Normally, during completions a flare is not on-site. A Snubbing Unit will have a flare on-site, and the flare volume will be estimated.
- If natural gas does not meet pipeline quality specification, the gas is sampled twice per week until the gas meets the specifications.

**4. During Production:**

- An audio, visual and olfactory (AVO) inspection will be performed daily (at minimum) for active wells and facilities to confirm that all production equipment is operating properly and there are no leaks or releases except as allowed in Subsection D of 19.15.27.8 NMAC. Inactive, temporarily abandoned, or shut-in wells and facilities will be inspected weekly. Inspection records will be kept for a minimum of five years and will be available upon request by the division.
- Monitor manual liquid unloading for wells on-site, takes all reasonable actions to achieve a stabilized rate and pressure at the earliest practical time and takes reasonable actions to minimize venting to the maximum extent practicable.
- In all circumstances, Chevron will flare rather than vent unless flaring is technically infeasible and venting of natural gas will avoid a risk of an immediate and substantial adverse impact on safety, public health, or the environment.
- Chevron's design for new facilities utilizes air-activated pneumatic controllers and pumps.
- If natural gas does not meet pipeline quality specification, the gas is sampled twice per week until the gas meets the specifications.
- Chevron does not produce oil or gas until all flowlines, tank batteries, and oil/gas takeaway are installed, tested, and determined operational.

## 5. Performance Standards

- Equipment installed at each facility is designed for maximum anticipated throughput and pressure to minimize waste. Tank pressure relief systems utilize a soft seated or metal seated PSVs, as appropriate, which are both designed to not leak.
- Flare stack has been designed for proper size and combustion efficiency. New flares will have a continuous pilot and will be located at least 100 feet from the well and storage tanks and will be securely anchored.
- New tanks will be equipped with an automatic gauging system.
- An audio, visual and olfactory (AVO) inspection will be performed daily (at minimum) for active wells and facilities to confirm that all production equipment is operating properly and there are no leaks or releases except as allowed in Subsection D of 19.15.27.8 NMAC. Inactive, temporarily abandoned, or shut-in wells and facilities will be inspected weekly. Inspection records will be kept for a minimum of five years and will be available upon request by the division.

## 6. Measurement or Estimation of Vented and Flared Natural Gas

- Chevron estimates or measures the volume of natural gas that is vented, flared, or beneficially used during drilling, operations, regardless of the reason or authorization for such venting or flaring.
- Where technically practicable, Chevron will install meters on flares installed after May 25, 2021. Meters will conform to industry standards. Bypassing the meter will only occur for inspecting and servicing of the meter.

Operator Name: CHEVRON USA INCORPORATED

Well Name: ZN 4 9 FED COM

Well Number: 615H

**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	1021	0	1021	3510	2489	1021	J-55	54.5	BUTT	2.01	1.62	BUOY	16.3 4	BUOY	15.3 3
2	INTERMEDIATE	12.25	10.75	NEW	API	N	0	5118	0	5087	3513	-1577	5118	J-55	40.5	OTHER - BTC/LTC	1	1	BUOY	3.05	BUOY	3.05
3	INTERMEDIATE	9.78	7.625	NEW	API	N	0	10848	0	10817	3513	-7307	10848	P-110	29.7	OTHER - W441	1.07	1.74	BUOY	3.32	BUOY	3.32
4	PRODUCTION	6.125	5.5	NEW	API	N	10648	22183	10617	11390	-7107	-7880	11535	P-110	20	OTHER - W441	1.38	2.25	BUOY	2.61	BUOY	3.2

**Casing Attachments**

Casing ID: 1      String      SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

13.375in\_BTC\_54.5ppf\_J55\_20250626090643.pdf

13.375in\_BTC\_54.5ppf\_J55\_20250904132953.pdf

**Operator Name:** CHEVRON USA INCORPORATED**Well Name:** ZN 4 9 FED COM**Well Number:** 615H**Casing Attachments****Casing ID:** 2      **String**      INTERMEDIATE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**

10.750\_45.5\_\_L80\_IC\_API\_BTC\_20250626091214.pdf

10.750\_45.5\_\_L80\_IC\_API\_BTC\_20250904133008.pdf

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

7.625\_29.7\_\_P110\_ICY\_W441\_20250626091458.pdf

7.625\_29.7\_\_P110\_ICY\_W441\_20250904133023.pdf

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

5.5\_20\_pp\_w\_441\_casing\_pdf\_20250626091721.pdf

5.5\_20\_pp\_w\_441\_casing\_pdf\_20250904133037.pdf

Operator Name: CHEVRON USA INCORPORATED

Well Name: ZN 4 9 FED COM

Well Number: 615H

## Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	521	89	2.29	12.8	204	25	CLASS C	Extender, Antifoam, Retarder, Viscosifier
SURFACE	Tail		521	1021	657	1.35	14.8	887	25	CLASS C	Extender, Antifoam, Retarder, Viscosifier
INTERMEDIATE	Lead		0	4118	628	2.29	11.5	1439	25	CLASS C	Extender, Antifoam, Retarder, Viscosifier
INTERMEDIATE	Tail		4118	5118	263	1.63	12.6	429	25	CLASS C	Extender, Antifoam, Retarder, Viscosifier
INTERMEDIATE	Lead		0	9848	483	3.52	10.5	1700	25	CLASS C	Extender, Antifoam, Retarder, Viscosifier
INTERMEDIATE	Tail		9848	10848	124	1.52	12.6	188	25	CLASS C	Extender, Antifoam, Retarder, Viscosifier
PRODUCTION	Lead		10648	22183	893	1.52	12.6	1358	25	CLASS H	Extender, Antifoam, Retarder, Viscosifier

## Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with 43 CFR 3172:

Diagram of the equipment for the circulating system in accordance with 43 CFR 3172:

**Describe what will be on location to control well or mitigate other conditions:** A weighting agent and lost circulating material (LCM) will be onsite to mitigate pressure or lost circulation as hole conditions dictate. If an open reserve pit is not approved by OCD, a closed system will be used consisting of above ground steel tanks and all wastes accumulated during drilling operations will be contained in a portable trash cage and removed from location and deposited in an approved sanitary landfill. If an open reserve pit is in place, pit construction, operation, and closure will follow all applicable rules and regulation. Sanitary wastes will be contained in a chemical porta-toilet and then hauled to an approved sanitary landfill.

**Describe the mud monitoring system utilized:** All fluids and cuttings will be disposed of in accordance with New Mexico Oil Conservation Division rules and regulations. And transporting of E&P waste will follow EPA regulations and accompanying manifests. A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH. Visual mud monitoring equipment shall be in place to detect volume changes indicating loss or gain of circulating fluid volume. When abnormal pressures are anticipated -- a pit volume totalizer (PVT), stroke counter, and flow sensor will be used to detect volume changes indicating loss or gain of circulating fluid volume.

## Circulating Medium Table

**Operator Name:** CHEVRON USA INCORPORATED**Well Name:** ZN 4 9 FED COM**Well Number:** 615H

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	1021	SPUD MUD	8.3	10.6	0	0	0	0	0	0	
1021	5118	SALT SATURATED	7.2	10.6	0	0	0	0	0	0	Saturated brine would be used through salt sections
5118	1084 8	OTHER : WBM/BRINE	7.2	12.2	0	0	0	0	0	0	
1084 8	2218 3	OIL-BASED MUD	9	15	0	0	0	0	0	0	Due to wellbore instability in the lateral, may exceed the MW window needed to maintain overburden stresses

## Section 6 - Test, Logging, Coring

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

- a. Production tests are not planned.
- b. Logs run include: Gamma Ray Log, Directional Survey  
Neutron log exception granted by BLM Geologist C. Armistead on 6/11/2024

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

DIRECTIONAL SURVEY, GAMMA RAY LOG,

**Coring operation description for the well:**

Coring Operations are not planned

## Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 8884

**Anticipated Surface Pressure:** 6378

**Anticipated Bottom Hole Temperature(F):** 199

**Anticipated abnormal pressures, temperatures, or potential geologic hazards?** NO

**Describe:**

**Contingency Plans geohazards description:**

**Contingency Plans geohazards**

**Hydrogen Sulfide drilling operations plan required?** YES

**Hydrogen sulfide drilling operations**

**Operator Name:** CHEVRON USA INCORPORATED**Well Name:** ZN 4 9 FED COM**Well Number:** 615H

Chevron\_Standard\_H2S\_Contingency\_Plan\_2024\_20250626093042.pdf  
Chevron\_Standard\_H2S\_Contingency\_Plan\_2024\_20250904133119.pdf

## Section 8 - Other Information

### Proposed horizontal/vertical/directional/multi-lateral plan submission:

DefPlan100ft\_ZN49FedComNo.615H\_R0\_20250630112041.pdf  
ZN\_4\_9\_FED\_COM\_615H\_9\_PT\_Plan\_01June25\_20250630112049.pdf  
DefPlan100ft\_ZN49FedComNo.615H\_R0\_20250904133157.pdf  
ZN\_4\_9\_FED\_COM\_615H\_9\_PT\_Plan\_01June25\_20250904133210.pdf

### Other proposed operations facets description:

- a. Batch drilling will be employed whereby the drilling rig may drill a specific hole section on all wells prior to moving to the next hole section.
- b. Shallow rig may be utilized to drill surface or intermediate sections. The production section will not be drilled by the shallow rig.
- c. Offline cementing will be employed on the hole sections that run a long string casing to surface. Offline cementing schematic below.  
Wait on cement duration for surface and intermediate string(s) will be based on time for tail slurry to develop 500 psi compressive strength and will follow rules as laid out in Onshore Order 2

### Other proposed operations facets attachment:

3\_Operational\_Best\_Management\_Practices\_20250626122532.pdf  
4a\_\_LEA\_County\_\_Wolfcamp\_Production\_20250630073619.pdf  
Gas\_Management\_Plan\_\_ZN\_Pad\_616\_20250626122602.pdf  
Gas\_Management\_Plan\_\_ZN\_Pad\_616\_20250904133234.pdf  
1\_Waste\_Minimization\_Plan\_Cover\_Sheet\_20250904133256.pdf  
4a\_\_LEA\_County\_\_Wolfcamp\_Production\_20250904133306.pdf  
3\_Operational\_Best\_Management\_Practices\_20250904133319.pdf

Other Variance request(s): N

Other Variance attachment:


**ZN 4 9 Fed Com No. 615H R0 mdv 15May25 Proposal Geodetic Report**
**Def Plan**

**Report Date:** May 16, 2025 - 09:57 PM ( UTC 0 )  
**Client:** Chevron  
**Field:** NM Los County (NAD 27)  
**Structure / Slot:** Chevron Zion Pad 616/615H  
**Well:** ZN 4 9 Fed Com No. 615H  
**Bohrhole:** ZN 4 9 Fed Com No. 615H  
**UBI# / API#:**  
**Survey Name:** ZN 4 9 Fed Com No. 615H R0 mdv 15May25  
**Survey Date:** May 16, 2025  
**Tent / AHD / DDI / ERD Ratio:** 108.102 ° / 11432.10 ft / 6.381 / 1.004  
**Coordinate Reference System:** NAD27 New Mexico State Plane, Eastern Zone, US Feet  
**Location Lat / Long:** 32°15'19.5309" N, 102°25.85549" W  
**Location Grid N/E/Y:** N 457719.940 ftUS, E 767416.220 ftUS  
**CRS Grid Convergence Angle:** 0.462°  
**Grid Scale Factor:** 0.99999099(Applied)  
**Version / Patch:** 2024.5.0.1

**Survey / DLS Computation:** Minimum Curvature / Lubinski  
**Vertical Section Asimuth:** 179.490 ° (GRID North)  
**Vertical Section Origin:** 0.000 ft, 0.000 ft  
**TVD Reference Datum:** RKB  
**TVD Reference Elevation:** 3538.000 ft above MSL  
**Seabed / Ground Elevation:** 3510.000 ft above MSL  
**Magnetic Declination:** 6.094°  
**Total Gravity Field Strength:** 998.4553mgn (9.80665 Based)  
**Gravity Model:** GARM  
**Total Magnetic Field Strength:** 47218.031 nT  
**Magnetic Dip Angle:** 59.719°  
**Declination Date:** May 16, 2025  
**Magnetic Declination Model:** HDGM 2025  
**North Reference:** Grid North  
**Grid Convergence Used:** 0.462°  
**Total Corr Mag North-Grid North:** 5.632°  
**Local Coord Referenced To:** Well Head

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS ('100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
Surface	0.00	0.00	0.00	0.00	-3,538.00	0.00	0.00	0.00	0.00	457,719.94	767,416.22	32,2554.2725	-103,4682.9319
	100.00	0.00	110.92	100.00	-3,438.00	0.00	0.00	0.00	0.00	457,719.94	767,416.22	32,2554.2725	-103,4682.9319
	200.00	0.00	110.92	200.00	-3,338.00	0.00	0.00	0.00	0.00	457,719.94	767,416.22	32,2554.2725	-103,4682.9319
	300.00	0.00	110.92	300.00	-3,238.00	0.00	0.00	0.00	0.00	457,719.94	767,416.22	32,2554.2725	-103,4682.9319
Build 1.5°/100ft	400.00	0.00	110.92	400.00	-3,138.00	0.00	0.00	0.00	0.00	457,719.94	767,416.22	32,2554.2725	-103,4682.9319
	500.00	1.50	110.92	499.99	-3,038.01	0.48	-0.47	1.22	1.50	457,719.47	767,417.44	32,2554.2594	-103,4682.8925
	600.00	3.00	110.92	599.91	-2,938.09	1.92	-1.87	4.89	1.50	457,719.07	767,421.11	32,2554.2200	-103,4682.7742
	700.00	4.50	110.92	699.69	-2,838.31	4.31	-4.20	11.00	1.50	457,715.74	767,427.22	32,2554.1545	-103,4682.5773
	800.00	6.00	110.92	799.27	-2,738.73	7.66	-7.47	19.55	1.50	457,712.47	767,435.76	32,2554.0628	-103,4682.3017
	900.00	7.50	110.92	898.57	-2,639.43	11.96	-11.67	30.52	1.50	457,708.27	767,446.74	32,2553.9450	-103,4681.9477
	1,000.00	9.00	110.92	997.54	-2,540.46	17.21	-16.79	43.93	1.50	457,703.81	767,460.15	32,2553.8012	-103,4681.5155
Hold	1,000.27	9.00	110.92	997.80	-2,540.20	17.22	-16.81	43.97	1.50	457,703.13	767,460.19	32,2553.8007	-103,4681.5142
Rustler (RSLR)	1,005.53	9.00	110.92	1,003.00	-2,535.00	17.52	-17.10	44.74	0.00	457,702.84	767,460.95	32,2553.7925	-103,4681.4894
	1,100.00	9.00	110.92	1,096.30	-2,441.70	22.93	-22.38	58.54	0.00	457,697.56	767,474.76	32,2553.6443	-103,4681.0441
	1,200.00	9.00	110.92	1,195.07	-2,342.93	28.66	-27.97	73.16	0.00	457,691.97	767,489.38	32,2553.4874	-103,4680.5728
	1,300.00	9.00	110.92	1,293.84	-2,244.16	34.39	-33.56	87.78	0.00	457,686.63	767,504.00	32,2553.3340	-103,4680.1014
	1,400.00	9.00	110.92	1,392.61	-2,145.39	40.11	-39.15	102.40	0.00	457,680.79	767,518.62	32,2553.1737	-103,4679.6300
Sakdo (SLDO)	1,410.52	9.00	110.92	1,403.00	-2,135.00	40.71	-39.74	103.94	0.00	457,680.20	767,520.16	32,2553.1572	-103,4679.5904
	1,500.00	9.00	110.92	1,491.37	-2,046.63	45.54	-44.51	117.02	0.00	457,683.24	767,533.24	32,2553.0600	-103,4679.1586
	1,600.00	9.00	110.92	1,547.14	-1,947.86	51.57	-50.33	134.54	0.00	457,683.81	767,547.87	32,2552.9600	-103,4679.0773
	1,700.00	9.00	110.92	1,689.91	-1,845.00	57.29	-55.92	146.26	0.00	457,684.03	767,562.47	32,2552.7032	-103,4679.2169
	1,800.00	9.00	110.92	1,787.68	-1,750.32	63.02	-61.50	160.87	0.00	457,684.84	767,577.05	32,2552.5463	-103,4677.7445
	1,900.00	9.00	110.92	1,886.45	-1,651.55	68.74	-67.09	175.49	0.00	457,682.85	767,591.71	32,2552.3880	-103,4677.2732
	2,000.00	9.00	110.92	1,985.21	-1,552.79	74.47	-72.69	190.11	0.00	457,674.26	767,606.33	32,2552.2236	-103,4676.8018
	2,100.00	9.00	110.92	2,083.98	-1,454.02	80.20	-78.27	204.73	0.00	457,661.87	767,620.95	32,2552.0757	-103,4676.3304
	2,200.00	9.00	110.92	2,182.75	-1,355.25	85.92	-83.86	219.35	0.00	457,636.00	767,635.57	32,2551.9189	-103,4675.8590
	2,300.00	9.00	110.92	2,281.52	-1,256.48	91.65	-89.45	233.97	0.00	457,630.49	767,650.19	32,2551.7620	-103,4675.3877
	2,400.00	9.00	110.92	2,380.28	-1,157.72	97.38	-95.04	248.59	0.00	457,624.90	767,664.80	32,2551.6052	-103,4674.9163
	2,500.00	9.00	110.92	2,479.05	-1,058.95	103.10	-100.63	263.20	0.00	457,619.31	767,679.42	32,2551.4483	-103,4674.4449
	2,600.00	9.00	110.92	2,577.82	-960.18	108.83	-106.22	277.82	0.00	457,613.73	767,694.04	32,2551.2914	-103,4673.9736
	2,700.00	9.00	110.92	2,676.59	-861.41	114.56	-111.80	292.44	0.00	457,608.14	767,708.66	32,2551.1346	-103,4673.5022
	2,800.00	9.00	110.92	2,775.35	-762.65	120.28	-117.39	307.06	0.00	457,602.55	767,723.28	32,2550.9777	-103,4673.0308
	2,900.00	9.00	110.92	2,874.12	-663.88	126.01	-122.98	321.68	0.00	457,596.36	767,737.90	32,2550.8209	-103,4672.5594
	3,000.00	9.00	110.92	2,972.89	-565.11	131.73	-128.57	336.30	0.00	457,591.37	767,752.51	32,2550.6640	-103,4672.0881
	3,100.00	9.00	110.92	3,071.66	-466.34	137.46	-134.16	350.92	0.00	457,585.78	767,767.13	32,2550.5072	-103,4671.6167
Drop 1.5°/100ft	3,109.70	9.00	110.92	3,081.24	-456.76	138.02	-134.70	352.33	0.00	457,585.24	767,768.55	32,2550.4919	-103,4671.5170
	3,200.00	7.65	110.92	3,170.58	-367.42	142.80	-139.37	364.55	1.50	457,580.57	767,780.76	32,2550.3660	-103,4671.1771
	3,300.00	6.15	110.92	3,269.86	-268.14	147.20	-143.66	375.77	1.50	457,576.24	767,791.99	32,2550.2461	-103,4670.8153
	3,400.00	4.65	110.92	3,369.41	-168.59	150.64	-147.00	384.56	1.50	457,572.98	767,800.77	32,2550.1462	-103,4670.5319
	3,500.00	3.15	110.92	3,469.07	-93.00	151.83	-149.45	390.91	1.50	457,570.49	767,807.13	32,2550.0460	-103,4670.2571
Castile (CSTL)	3,600.00	1.65	110.92	3,560.09	31.00	154.86	-154.86	394.82	1.50	457,568.80	767,811.04	32,2550.0469	-103,4670.1010
	3,673.93	0.00	110.92	3,600.00	120.00	151.17	-151.44	398.11	1.50	457,568.80	767,812.33	32,2550.0222	-103,4670.1537
Hold Vertical	3,769.97	0.00	110.92	3,670.04	141.04	155.24	-151.51	398.39	1.50	457,568.44	767,812.00	32,2550.0203	-103,4670.1533
	3,800.00	0.00	110.92	3,769.07	231.07	155.24	-151.51	398.30	0.00	457,568.43	767,812.52	32,2550.0202	-103,4670.1533
	3,900.00	0.00	110.92	3,869.07	331.07	155.24	-151.51	398.30	0.00	457,568.43	767,812.52	32,2550.0202	-103,4670.1533
	4,000.00	0.00	110.92	3,969.07	431.07	155.24	-151.51	398.30	0.00	457,568.43	767,812.52	32,2550.0202	-103,4670.1533
	4,100.00	0.00	110.92	4,069.07	531.07	155.24	-151.51	398.30	0.00	457,568.43	767,812.52	32,2550.0202	-103,4670.1533
	4,200.00	0.00	110.92	4,169.07	631.07	155.24	-151.51	398.30	0.00	457,568.43	767,812.52	32,2550.0202	-103,4670.1533
	4,300.00	0.00	110.92	4,269.07	731.07	155.24	-151.51	398.30	0.00	457,568.43	767,812.52	32,2550.0202	-103,4670.1533
	4,400.00	0.00	110.92	4,369.07	831.07	155.24	-151.51	398.30	0.00	457,568.43	767,812.52	32,2550.0202	-103,4670.1533
	4,500.00	0.00	110.92	4,469.07	931.07	155.24	-151.51	398.30	0.00	457,568.43	767,812.52	32,2550.0202	-103,4670.1533
	4,600.00	0.00	110.92	4,569.07	1,031.07	155.24	-151.51	398.30	0.00	457,568.43	767,812.52	32,2550.0202	-103,4670.1533
	4,700.00	0.00	110.92	4,669.07	1,131.07	155.24	-151.51	398.30	0.00	457,568.43	767,812.52	32,2550.0202	-103,4670.1533
	4,800.00	0.00	110.92	4,769.07	1,231.07	155.24	-151.51	398.30	0.00	457,568.43	767,812.52	32,2550.0202	-103,4670.1533
	4,900.00	0.00	110.92	4,869.07	1,331.07	155.24	-151.51	398.30	0.00	457,568.43	767,812.52	32,2550.0202	-103,4670.1533
	5,000.00	0.00	110.92	4,969.07	1,431.07	155.24	-151.51	398.30	0.00	457,568.43	767,812.52	32,2550.0202	-103,4670.1533
	5,100.00	0.00	110.92	5,069.07	1,531.07	155.24	-151.51	398.30	0.00	457,568.43	767,812.52	32,2550.0202	-103,4670.1533
Lamar (LMAR)	5,137.93	0.00	110.92	5,107.00									

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (′/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
	9,300.00	0.00	110.92	9,269.07	5,731.07	155.24	-151.51	396.30	0.00	457,568.43	767,812.52	32.25500202	-103.46701533
	9,400.00	0.00	110.92	9,369.7	5,831.07	155.24	-151.51	396.30	0.00	457,568.43	767,812.52	32.25500202	-103.46701533
	9,500.00	0.00	110.92	9,469.7	5,931.07	155.24	-151.51	396.30	0.00	457,568.43	767,812.52	32.25500202	-103.46701533
	9,600.00	0.00	110.92	9,569.07	6,031.07	155.24	-151.51	396.30	0.00	457,568.43	767,812.52	32.25500202	-103.46701533
	9,700.00	0.00	110.92	9,669.7	6,131.07	155.24	-151.51	396.30	0.00	457,568.43	767,812.52	32.25500202	-103.46701533
First Bone Spring Upper (FBU)	9,757.93	0.00	110.92	9,769.07	6,231.07	155.24	-151.51	396.30	0.00	457,568.43	767,812.52	32.25500202	-103.46701533
	9,800.00	0.00	110.92	9,869.7	6,331.07	155.24	-151.51	396.30	0.00	457,568.43	767,812.52	32.25500202	-103.46701533
First Bone Spring Lower (FBL)	9,991.33	0.00	110.92	9,961.00	6,423.00	155.24	-151.51	396.30	0.00	457,568.43	767,812.52	32.25500202	-103.46701533
	10,000.00	0.00	110.92	9,969.7	6,431.07	155.24	-151.51	396.30	0.00	457,568.43	767,812.52	32.25500202	-103.46701533
	10,100.00	0.00	110.92	10,069.7	6,531.07	155.24	-151.51	396.30	0.00	457,568.43	767,812.52	32.25500202	-103.46701533
	10,200.00	0.00	110.92	10,169.7	6,631.07	155.24	-151.51	396.30	0.00	457,568.43	767,812.52	32.25500202	-103.46701533
Second Bone Spring Upper (SBU)	10,292.93	0.00	110.92	10,262.00	6,724.00	155.24	-151.51	396.30	0.00	457,568.43	767,812.52	32.25500202	-103.46701533
	10,300.00	0.00	110.92	10,269.7	6,731.07	155.24	-151.51	396.30	0.00	457,568.43	767,812.52	32.25500202	-103.46701533
	10,400.00	0.00	110.92	10,369.7	6,831.07	155.24	-151.51	396.30	0.00	457,568.43	767,812.52	32.25500202	-103.46701533
	10,500.00	0.00	110.92	10,469.7	6,931.07	155.24	-151.51	396.30	0.00	457,568.43	767,812.52	32.25500202	-103.46701533
Second Bone Spring Lower (SBL)	10,600.00	0.00	110.92	10,569.7	7,031.07	155.24	-151.51	396.30	0.00	457,568.43	767,812.52	32.25500202	-103.46701533
	10,700.00	0.00	110.92	10,669.7	7,131.07	155.24	-151.51	396.30	0.00	457,568.43	767,812.52	32.25500202	-103.46701533
Build 10'/100ft	10,847.97	0.00	110.92	10,817.04	7,279.04	155.24	-151.51	396.30	0.00	457,568.43	767,812.52	32.25500202	-103.46701533
	10,900.00	5.20	110.92	10,869.0	7,331.00	157.60	-153.87	396.32	10.00	457,567.00	767,812.54	32.25499553	-103.46701533
Third Bone Spring (TBS)	11,090.07	24.21	110.92	11,052.00	7,514.00	205.63	-201.90	396.73	10.00	457,518.04	767,812.94	32.25486350	-103.46701527
	11,100.00	25.20	110.92	11,061.00	7,523.02	209.78	-206.05	396.76	10.00	457,518.9	767,812.98	32.25485209	-103.46701526
	11,200.00	35.20	110.92	11,147.34	7,609.34	260.02	-256.29	397.19	10.00	457,486.65	767,813.40	32.25471399	-103.46701520
	11,300.00	45.20	110.92	11,223.62	7,685.62	329.49	-326.46	397.73	10.00	457,398.1	767,813.95	32.25453671	-103.46701512
Wolfcamp A (WCA)	11,400.00	55.17	110.92	11,284.54	7,749.4	401.23	-397.49	398.38	10.00	457,322.46	767,814.60	32.25432588	-103.46701503
	11,500.00	65.20	110.92	11,337.17	7,795.17	487.90	-484.16	399.11	10.00	457,237.59	767,815.33	32.25408763	-103.46701492
	11,600.00	75.20	110.92	11,371.00	7,833.00	518.87	-518.12	399.91	10.00	457,141.82	767,816.12	32.25382934	-103.46701480
Landing Point	11,700.00	85.20	110.92	11,387.99	7,849.99	680.28	-676.54	400.74	10.00	457,043.41	767,816.95	32.25355882	-103.46701468
FTP Cross	11,747.97	90.00	110.92	11,390.00	7,852.00	728.20	-724.45	401.14	10.00	456,995.50	767,817.36	32.25342712	-103.46701462
	11,748.00	90.00	110.92	11,390.00	7,852.00	728.23	-724.45	401.14	0.00	456,995.47	767,817.36	32.25342703	-103.46701462
	11,800.00	90.00	110.92	11,390.00	7,852.00	780.23	-776.48	401.58	0.00	456,943.47	767,817.80	32.25328410	-103.46701456
	11,900.00	90.00	110.92	11,390.00	7,852.00	880.23	-875.47	402.43	0.00	456,843.48	767,818.64	32.25300922	-103.46701443
PPP2, Turn 2'/100ft	12,000.00	90.00	110.92	11,390.00	7,852.00	980.23	-976.47	403.27	0.00	456,743.48	767,819.49	32.25273435	-103.46701431
Hold	12,100.00	90.00	110.92	11,390.00	7,852.00	1,080.23	-1,076.47	404.12	0.00	456,643.49	767,820.34	32.25245948	-103.46701418
	12,200.00	90.00	110.92	11,390.00	7,852.00	1,180.23	-1,176.46	404.96	0.00	456,543.49	767,821.18	32.25218461	-103.46701406
	12,300.00	90.00	110.92	11,390.00	7,852.00	1,280.23	-1,276.46	405.81	0.00	456,443.50	767,822.03	32.25190973	-103.46701393
	12,400.00	90.00	110.92	11,390.00	7,852.00	1,380.23	-1,376.45	406.66	0.00	456,343.50	767,822.87	32.25163486	-103.46701381
	12,500.00	90.00	110.92	11,390.00	7,852.00	1,480.23	-1,476.45	407.50	0.00	456,243.51	767,823.72	32.25135999	-103.46701368
	12,600.00	90.00	110.92	11,390.00	7,852.00	1,580.23	-1,576.45	408.35	0.00	456,143.51	767,824.56	32.25108512	-103.46701356
	12,700.00	90.00	110.92	11,390.00	7,852.00	1,680.23	-1,676.44	409.19	0.00	456,043.51	767,825.41	32.25081024	-103.46701344
	12,800.00	90.00	110.92	11,390.00	7,852.00	1,780.23	-1,776.44	410.04	0.00	455,943.52	767,826.25	32.25053537	-103.46701331
	12,900.00	90.00	110.92	11,390.00	7,852.00	1,880.23	-1,876.44	410.88	0.00	455,843.53	767,827.10	32.25026060	-103.46701319
	13,000.00	90.00	110.92	11,390.00	7,852.00	1,980.23	-1,976.43	411.73	0.00	455,743.53	767,827.94	32.24998562	-103.46701306
	13,100.00	90.00	110.92	11,390.00	7,852.00	2,080.23	-2,076.43	412.57	0.00	455,643.53	767,828.79	32.24971019	-103.46701294
	13,200.00	90.00	110.92	11,390.00	7,852.00	2,180.23	-2,176.43	413.42	0.00	455,544.54	767,829.63	32.24945688	-103.46701281
	13,300.00	90.00	110.92	11,390.00	7,852.00	2,280.23	-2,276.42	414.26	0.00	455,443.54	767,830.49	32.24861601	-103.46701269
	13,400.00	90.00	110.92	11,390.00	7,852.00	2,380.23	-2,375.42	415.11	0.00	455,343.55	767,831.32	32.24868613	-103.46701256
	13,500.00	90.00	110.92	11,390.00	7,852.00	2,480.23	-2,476.42	415.95	0.00	455,243.55	767,832.17	32.24861126	-103.46701244
	13,600.00	90.00	110.92	11,390.00	7,852.00	2,580.23	-2,576.42	416.80	0.00	455,143.56	767,833.02	32.24833639	-103.46701231
	13,700.00	90.00	110.92	11,390.00	7,852.00	2,680.23	-2,676.42	417.65	0.00	455,043.56	767,833.86	32.24806151	-103.46701219
	13,800.00	90.00	110.92	11,390.00	7,852.00	2,780.23	-2,776.40	418.49	0.00	454,943.57	767,834.71	32.24778664	-103.46701207
	13,900.00	90.00	110.92	11,390.00	7,852.00	2,880.23	-2,876.40	419.34	0.00	454,843.57	767,835.55	32.24751177	-103.46701194
	14,000.00	90.00	110.92	11,390.00	7,852.00	2,980.23	-2,976.40	420.18	0.00	454,743.58	767,836.40	32.24723690	-103.46701182
	14,100.00	90.00	110.92	11,390.00	7,852.00	3,080.23	-3,076.39	421.03	0.00	454,643.58	767,837.24	32.24696202	-103.46701169
	14,200.00	90.00	110.92	11,390.00	7,852.00	3,180.23	-3,176.38	421.87	0.00	454,543.58	767,838.09	32.24668715	-103.46701157
PPP2, Turn 2'/100ft	14,286.64	90.00	110.92	11,390.00	7,852.00	3,266.86	-3,263.03	422.60	0.00	454,456.95	767,838.82	32.24644900	-103.46701146
Hold	14,287.73	90.00	110.92	11,390.00	7,852.00	3,267.96	-3,264.12	422.61	2.00	454,456.95	767,846.01	32.24421329	-103.46700944
	14,300.00	90.00	110.92	11,390.00	7,852.00	3,280.23	-3,276.37	422.72	0.00	454,443.59	767,838.94	32.24612228	-103.46701143
	14,400.00	90.00	110.92	11,390.00	7,852.00	3,380.23	-3,376.38	423.61	0.00	454,343.59	767,839.82	32.24613740	-103.46701118
	14,500.00	90.00	110.92	11,390.00	7,852.00	3,480.23	-3,476.38	424.49	0.00	454,243.59	767,840.70	32.24562533	-103.46701093
	14,600.00	90.00	110.92	11,390.00	7,852.00	3,580.23	-3,573.67	425.37	0.00	454,143.60	767,841.59	32.24558766	-103.46701068
	14,700.00	90.00	110.92	11,390.00	7,852.00	3,680.23	-3,676.37	426.26	0.00	454,043.61	767,842.47	32.24531279	-103.

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (′/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
	21,100.00	90.00	179.42	11,390.00	7,852.00	10,080.22	-10,076.07	488.06	0.00	447,643.98	767,904.27	32.22772092	-103.46697751
	21,200.00	90.00	179.42	11,390.00	7,852.00	10,180.22	-10,176.07	489.07	0.00	447,543.99	767,905.28	32.22744604	-103.46697686
	21,300.00	90.00	179.42	11,390.00	7,852.00	10,280.22	-10,276.06	490.08	0.00	447,443.99	767,906.29	32.22717117	-103.46697620
	21,400.00	90.00	179.42	11,390.00	7,852.00	10,380.22	-10,366.05	491.09	0.00	447,343.99	767,907.30	32.22689642	-103.46697554
	21,500.00	90.00	179.42	11,390.00	7,852.00	10,480.22	-10,476.05	492.10	0.00	447,244.00	767,908.31	32.22664442	-103.46697489
	21,600.00	90.00	179.42	11,390.00	7,852.00	10,580.22	-10,576.05	493.10	0.00	447,144.01	767,909.32	32.22644655	-103.46697423
	21,700.00	90.00	179.42	11,390.00	7,852.00	10,680.22	-10,676.04	494.11	0.00	447,044.02	767,910.33	32.22627168	-103.46697357
	21,800.00	90.00	179.42	11,390.00	7,852.00	10,780.22	-10,776.04	495.12	0.00	446,944.02	767,911.34	32.22579680	-103.46697291
	21,900.00	90.00	179.42	11,390.00	7,852.00	10,880.22	-10,876.03	496.13	0.00	446,844.03	767,912.35	32.22552193	-103.46697226
	22,000.00	90.00	179.42	11,390.00	7,852.00	10,980.22	-10,976.03	497.14	0.00	446,744.04	767,913.36	32.22524706	-103.46697160
	22,100.00	90.00	179.42	11,390.00	7,852.00	11,080.22	-11,076.02	498.15	0.00	446,644.05	767,914.37	32.22497218	-103.46697094
LTP Cross	22,108.43	90.00	179.42	11,390.00	7,852.00	11,088.65	-11,084.45	498.24	0.00	446,635.61	767,914.45	32.22494901	-103.46697089
ZN 4 9 Fed Com No. 615H BHL	22,183.45	90.00	179.42	11,390.00	7,852.00	11,163.67	-11,159.46	499.00	0.00	446,560.60	767,915.21	32.22474281	-103.46697039

Survey Type: Def Plan

Survey Error Model: WPTS Rev 0.

Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Code	Vendor / Tool	Borehole / Survey
	1	0.000	22,183.447	1/100.000	7.5 – 12.25 – 8.5	375 – 9.625 – 8.5		B001Mb, MWD+HRGM		ZN 4 9 Fed Com No. 615H / ZN 4 9 Fed Com No.

EOU Geometry:

End MD (ft)	Hole Size (in)	Casing Size (in)	Name
6,113.000	17.500	13.375	
13,738.000	12.250	9.625	
24,538.000	8.500		

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CHEVRON USA INCORPORATED
WELL NAME & NO.:	ZN 4 9 FED COM 615H
LOCATION:	Section 33, T.23 S., R.34 E., NMP
COUNTY:	Lea County, New Mexico

COA

<input checked="" type="radio"/> H2S	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input checked="" type="radio"/> R-111-P
Cave/Karst Potential	<input checked="" type="radio"/> Low	<input type="radio"/> Medium	<input checked="" type="radio"/> High
Cave/Karst Potential	<input checked="" type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Wellhead Variance	<input checked="" type="radio"/> Diverter		
Other	<input type="checkbox"/> 4 String	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input checked="" type="checkbox"/> Fluid Filled	<input type="checkbox"/> Pilot Hole	<input type="checkbox"/> Open Annulus
Cementing	<input type="checkbox"/> Contingency Cement Squeeze	<input type="checkbox"/> EchoMeter	<input type="checkbox"/> Primary Cement Squeeze
Special Requirements	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit
Special Requirements	<input type="checkbox"/> Batch Sundry		
Special Requirements Variance	<input checked="" type="checkbox"/> Break Testing	<input checked="" type="checkbox"/> Offline Cementing	<input type="checkbox"/> Casing Clearance

### A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet 43 CFR part 3170 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

### B. CASING

#### Primary Casing Design:

1. The **13-3/8** inch surface casing shall be set at approximately **1380 feet per BLM Geologist** (a minimum of **25 feet (Lea County)**) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. The surface hole shall be **17.5** inch in diameter.
  - 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 will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- 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.

**Operator is approved to use contingency cementing for the Intermediate and Production section. Operator shall notify the BLM before proceeding with contingency operation.**

2. The minimum required fill of cement behind the **10-3/4** inch intermediate casing is:

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

**Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.**

**Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.**

3. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

4. The minimum required fill of cement behind the **5-1/2** inch production liner is:

- Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

**Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.**

## C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **13-3/8** inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M)** psi.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
  - e. Whenever any seal subject to test pressure is broken, all the tests in **43 CFR 3172.6(b)(9)** must be followed

## D. SPECIAL REQUIREMENT (S)

### Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3170.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

### (Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system)

### BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be**

**(higher than the MASP)**

- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-689-5981 Lea County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR 3170.

**Offline Cementing**

Contact the BLM prior to the commencement of any offline cementing procedure.

## **GENERAL REQUIREMENTS**

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)

Eddy County

EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,  
**BLM\_NM\_CFO\_DrillingNotifications@BLM.GOV**  
 (575) 361-2822

Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,  
 (575) 689-5981

1. 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.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like

pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).

- b. When the operator proposes to set surface casing with Spudder Rig
  - i. Notify the BLM when moving in and removing the Spudder Rig.
  - ii. Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
  - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2<sup>nd</sup> Rig is rigged up on well.
2. 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 are located, this does not include the dog house or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

## A. CASING

1. 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.
2. Wait on cement (WOC) for Potash Areas: 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 for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. 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. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. 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.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. 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.
8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

## B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APPD. The following requirements must be met:
  - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - iii. Manufacturer representative shall install the test plug for the initial BOP test.
  - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
  - v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - i. 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 cement), 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).
  - ii. In potash areas, 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. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

- iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- iv. 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.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. 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.
- vii. 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.
- viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

### **C. DRILLING MUD**

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

### **D. 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.

JS 10/22/2025



# H<sub>2</sub>S Preparedness and Contingency Plan Summary

## Training

MCBU Drilling and Completions H<sub>2</sub>S training requirements are intended to define the minimum level of training required for employees, contractors and visitors to enter or perform work at MCBU Drilling and Completions locations that have known concentrations of H<sub>2</sub>S.

### Awareness Level

Employees and visitors to MCBU Drilling and Completions locations that have known concentrations of H<sub>2</sub>S, who are not required to perform work in H<sub>2</sub>S areas, will be provided with an awareness level of H<sub>2</sub>S training prior to entering any H<sub>2</sub>S areas. At a minimum, awareness level training will include:

1. Physical and chemical properties of H<sub>2</sub>S
2. Health hazards of H<sub>2</sub>S
3. Personal protective equipment
4. Information regarding potential sources of H<sub>2</sub>S
5. Alarms and emergency evacuation procedures

Awareness level training will be developed and conducted by personnel who are qualified either by specific training, educational experience and/or work-related background.

### Advanced Level H<sub>2</sub>S Training

Employees and contractors required to work in areas that may contain H<sub>2</sub>S will be provided with Advanced Level H<sub>2</sub>S training prior to initial assignment. In addition to the Awareness Level requirements, Advanced Level H<sub>2</sub>S training will include:

1. H<sub>2</sub>S safe work practice procedures.
2. Emergency contingency plan procedures.
3. Methods to detect the presence or release of H<sub>2</sub>S (e.g., alarms, monitoring equipment), including hands-on training with direct reading and personal monitoring H<sub>2</sub>S equipment.
4. Basic overview of respiratory protective equipment suitable for use in H<sub>2</sub>S environments.
  - a. Note: Employees who work at sites that participate in the Chevron Respirator User program will require separate respirator training as required by the MCBU Respiratory Protection Program.
5. Basic overview of emergency rescue techniques, first aid, CPR and medical evaluation procedures. Employees who may be required to perform "standby" duties are required to receive additional first aid and CPR training, which is not covered in the Advanced Level H<sub>2</sub>S training.
6. Proficiency examination covering all course material.

Advanced H<sub>2</sub>S training courses will be instructed by personnel who have successfully completed an appropriate H<sub>2</sub>S train-the-trainer development course (ANSI/ASSE Z390.1-2006) or who possess significant past experience through educational or work-related background.



# H<sub>2</sub>S Preparedness and Contingency Plan Summary

## H<sub>2</sub>S Training Certification

All employees and visitors will be issued an H<sub>2</sub>S training certification card (or certificate) upon successful completion of the appropriate H<sub>2</sub>S training course. Personnel working in an H<sub>2</sub>S environment will carry a current H<sub>2</sub>S training certification card as proof of having received the proper training on their person at all times.

## Briefing Area

A minimum of two briefing areas will be established in locations that at least one area will be upwind from the well at all times. Upon recognition of an emergency situation, all personnel should assemble at the designated upwind briefing areas for instructions.

## H<sub>2</sub>S Equipment

### Respiratory Protection

- a) Six 30-minute SCBAs – 2 at each briefing area and 2 in the Safety Trailer.
- b) Eight 5-minute EBAs – 5 in the dog house at the rig floor, 1 at the accumulator, 1 at the shale shakers and 1 at the mud pits.

### Visual Warning System

- a) One color code sign, displaying all possible conditions, will be placed at the entrance to the location with a flag displaying the current condition.
- b) Two windsocks will be on location, one on the doghouse and one on the Drill Site Manager's Trailer.

## H<sub>2</sub>S Detection and Monitoring System

- a) H<sub>2</sub>S monitoring system (sensor head, warning light and siren) placed throughout rig.
  - Drilling Rig Locations: at a minimum, in the area of the Shale shaker, rig floor, and bell nipple.
  - Workover Rig Locations: at a minimum, in the area of the Cellar, rig floor and circulating tanks or shale shaker.



# H<sub>2</sub>S Preparedness and Contingency Plan Summary

## Well Control Equipment

- a) Flare Line 150' from wellhead with igniter.
- b) Choke manifold with a remotely operated choke.
- c) Mud / gas separator

## Mud Program

In the event of drilling, completions, workover and well servicing operations involving a hydrogen sulfide concentration of 100 ppm or greater the following shall be considered:

1. Use of a degasser
2. Use of a zinc-based mud treatment
3. Increasing mud weight

## Public Safety - Emergency Assistance

<u>Agency</u>	<u>Telephone Number</u>
Lea County Sheriff's Department	575-396-3611
Fire Department:	
Carlsbad	575-885-3125
Artesia	575-746-5050
Lea County Regional Medical Center	575-492-5000
Jal Community Hospital	505-395-2511
Lea County Emergency Management	575-396-8602
Poison Control Center	800-222-1222



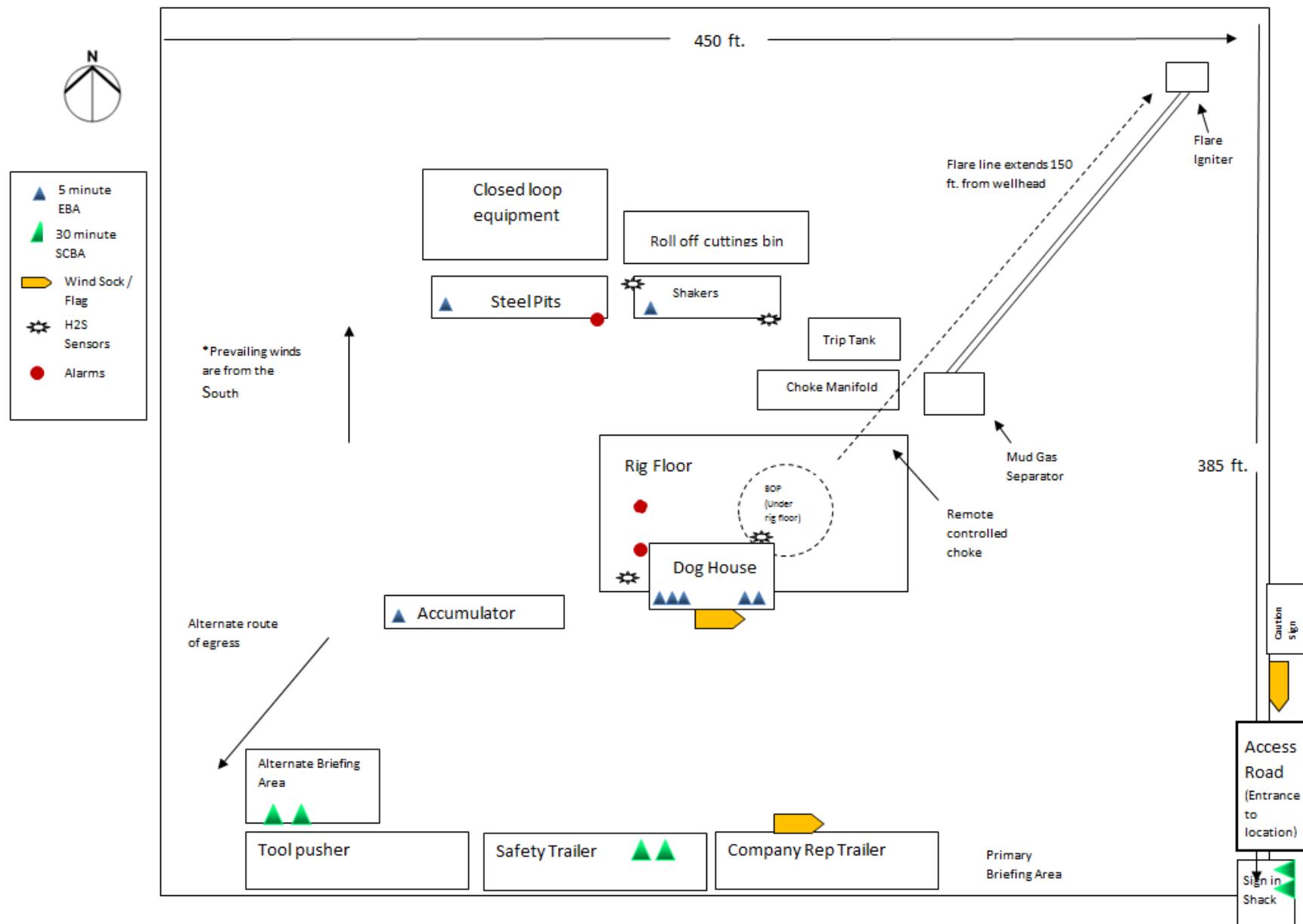
## H<sub>2</sub>S Preparedness and Contingency Plan Summary

### Chevron MCBU D&C Emergency Notifications

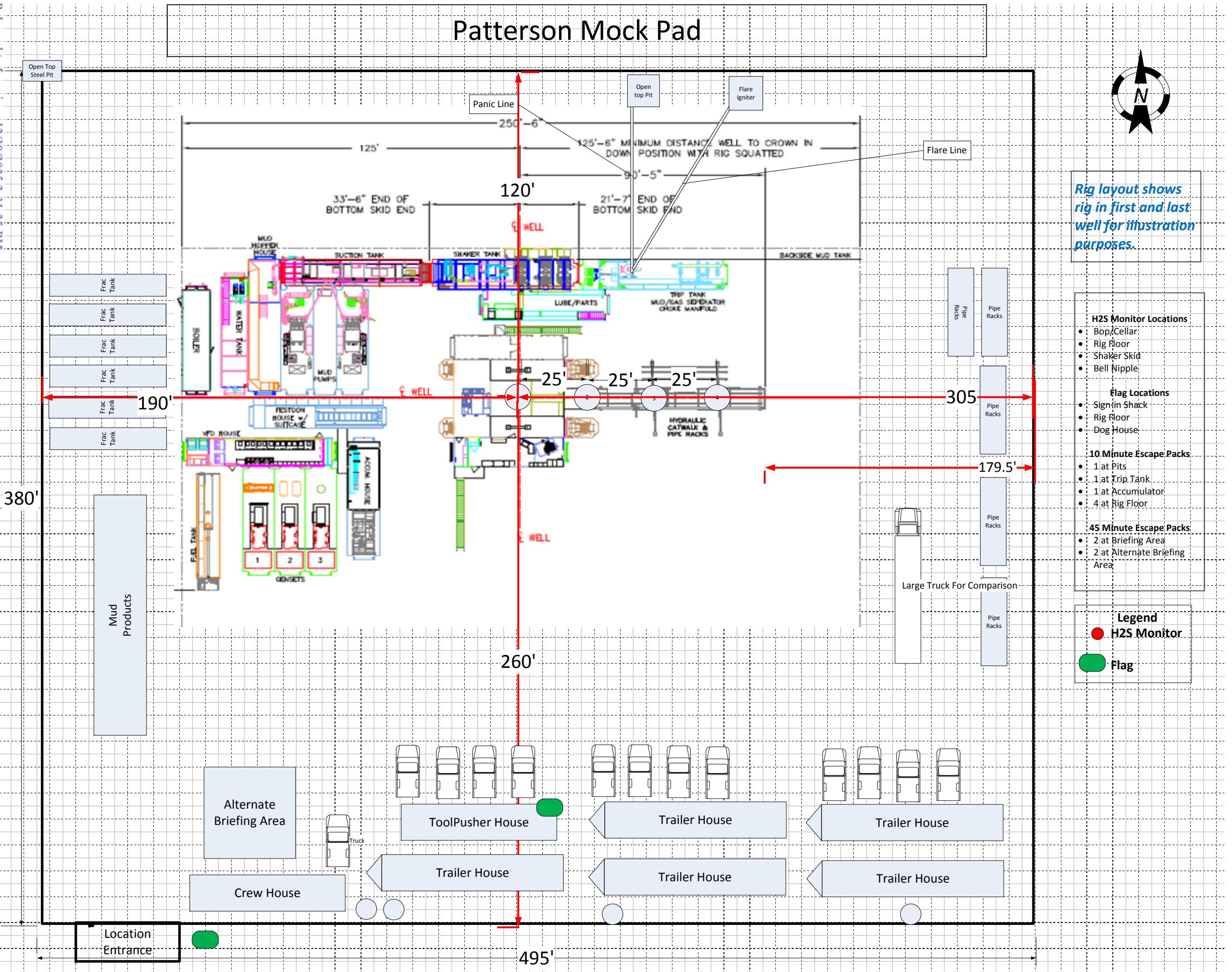
Below are lists of contacts to be used in emergency situations.

	Name	Title	Office Number	Cell Phone
1.	<b>TBD</b>	Drilling Engineer		
2.	Ian McWilliam	Superintendent	(661) 770-6030	
3.	Matt Madson	Superintendent	(713) 206-1493	
4.	Nicholas Duhe	Superintendent	(713) 302-2674	
5.	Dennis McHugh	Drilling Manager	(713) 372-4496	
6.	Jay Gagneaux	Operations Manager	(713) 306-1082	
7.	TBD	Wells HSE		
8.	TBD	Completion Engineer		

## H<sub>2</sub>S Preparedness and Contingency Plan Summary



# Patterson Mock Pad





APD ID: 10400105750

Submission Date: 06/30/2025

Highlighted data  
reflects the most  
recent changes

Operator Name: CHEVRON USA INCORPORATED

Well Number: 615H

Well Name: ZN 4 9 FED COM

Well Work Type: Drill

Well Type: OIL WELL

[Show Final Text](#)

## Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formation
16654254	RUSTLER	3510	1003	1006	SANDSTONE	NONE	N
16654255	SALADO	2107	1403	1411	ANHYDRITE, SALT	NONE	N
16654256	CASTILE	-130	3640	3671	ANHYDRITE, SALT	NONE	N
16654257	LAMAR	-1597	5107	5138	LIMESTONE, SHALE	NONE	N
16654258	BELL CANYON	-1650	5160	5191	LIMESTONE, SANDSTONE	NONE	N
16654259	CHERRY CANYON	-2482	5992	6023	SANDSTONE, SILTSTONE	NONE	N
16654260	BRUSHY CANYON	-3838	7348	7379	LIMESTONE, SANDSTONE	NONE	N
16654261	BONE SPRING LIME	-5165	8675	8706	SHALE, SILTSTONE	NONE	N
16654262	AVALON SAND	-5261	8771	8802	SHALE	NONE	N
16654263	BONE SPRING 1ST	-6217	9727	9992	SANDSTONE, SHALE	NONE	N
16654264	BONE SPRING 2ND	-6752	10262	10622	SANDSTONE, SHALE	NATURAL GAS, OIL	N
16654265	BONE SPRING 3RD	-7542	11052	11090	SANDSTONE, SHALE	NONE	N
16654266	WOLFCAMP	-7809	11319	11460	SANDSTONE, SHALE	NATURAL GAS, OIL	Y

## Section 2 - Blowout Prevention

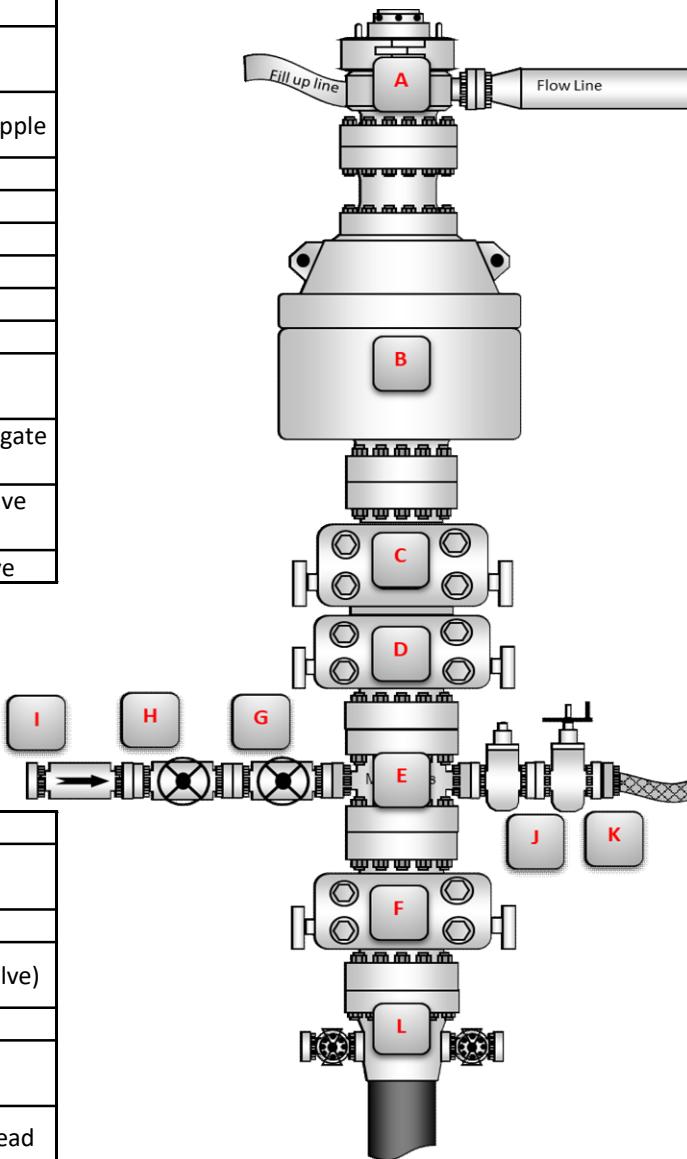
# BLOWOUT PREVENTER SCHEMATIC

Operation:	Intermediate(s)
Minimum System operation pressure	5,000 psi

BOP Stack			
Part	Size	Pressure Rating	Description
A	13-5/8"	N/A	Rotating Head/Bell nipple
B	13-5/8"	5,000	Annular
C	13-5/8"	5,000	Blind Ram
D	13-5/8"	5,000	Pipe Ram
E	13-5/8"	5,000	Mud Cross
F	13-5/8"	5,000	Pipe Ram

Kill Line			
Part	Size	Pressure Rating	Description
G	2"	5,000	Inside Kill Line Valve (gate valve)
H	2"	5,000	Outside Kill Line Valve (gate valve)
I	2"	5,000	Kill Line Check valve



Choke line			
Part	Size	Pressure Rating	Description
J	3"	5,000	HCR (gate valve)
K	3"	5,000	Manual HCR (gate valve)

Wellhead			
Part	Size	Pressure Rating	Description
L	13-5/8"	5,000	FMC 5M/10M wellhead

#### BOP Installation Checklist: The following items must be verified and checked off prior to pressure testing BOP equipment

The installed BOP equipment meets at least the minimum requirements (rating, type, size, configuration) as shown on this schematic. Components may be substituted for equivalent equipment rated to higher pressures. Additional components may be put into place as long as they meet or exceed the minimum pressure rating of the system.

All valves on the kill line and choke line will be full opening and will allow straight flow through.

The kill line and choke line will be straight unless turns use tee blocks or are targeted with running tees, and will be anchored to prevent whip and reduce vibration.

Manual (hand wheels) or automatic locking devices will be installed on all ram preventers. Hand wheels will also be installed on all manual valves on the choke and kill line.

A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve will remain open unless accumulator is inoperative.

Upper kelly cock valve with handle will be available on rig floor along with saved valve and subs to fit all drill string connections in use.

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**

ACKNOWLEDGMENTS

Action 521246

**ACKNOWLEDGMENTS**

Operator:	OGRID:
CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	4323
	Action Number:
	521246

Action Type:  
[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.
-------------------------------------	--

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**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

COMMENTS

Action 521246

## COMMENTS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 521246
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

## COMMENTS

Created By	Comment	Comment Date
jeffrey.harrison	Infill to 30-025-55704.	12/30/2025

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Phone: (505) 476-3441

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CONDITIONS

Action 521246

**CONDITIONS**

Operator:  CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 521246
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

**CONDITIONS**

Created By	Condition	Condition Date
apprentice	Cement is required to circulate on both surface and intermediate1 strings of casing.	10/29/2025
apprentice	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	10/29/2025
jeffrey.harrison	Any string of casing or liner that is not circulated to surface must have a minimum of 200' of cement tie-back into the previous string of casing.	12/30/2025
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.	12/30/2025
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.	12/30/2025
jeffrey.harrison	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.	12/30/2025
jeffrey.harrison	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.	12/30/2025