

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

General Information
Phone: (505) 629-6116

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

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

Form C-101
August 1, 2011

Permit 394491

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706		2. OGRID Number 4323
		3. API Number 30-025-55798
4. Property Code 337733	5. Property Name ZN 34 3 STATE COM	6. Well No. 416H

7. Surface Location

UL - Lot F	Section 34	Township 23S	Range 34E	Lot Idn	Feet From 2119	N/S Line N	Feet From 2635	E/W Line W	County Lea
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8. Proposed Bottom Hole Location

UL - Lot M	Section 3	Township 24S	Range 34E	Lot Idn M	Feet From 25	N/S Line S	Feet From 550	E/W Line W	County Lea
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9. Pool Information

RED HILLS;BONE SPRING, NORTH	96434
ANTELOPE RIDGE;BONE SPRING, SW	97621

Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3462
16. Multiple Y	17. Proposed Depth 18836	18. Formation Bone Spring	19. Contractor	20. Spud Date 11/1/2027
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

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

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1030	754	0
Int1	12.25	10.75	40.5	5313	577	0
Int2	9.875	7.625	29.7	10087	833	0
Prod	6.75	5	13	18836	825	9887

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	10600	TBD

<p>23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well. I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable.</p> <p>Signature:</p>	<p>OIL CONSERVATION DIVISION</p>
Printed Name: Electronically filed by Cindy Herrera-Murillo	Approved By: Jeffrey Harrison
Title: Sr. HES Regulatory Affairs Coordinator	Title: Petroleum Specialist III
Email Address: eeof@chevron.com	Approved Date: 1/13/2026 Expiration Date: 1/13/2028
Date: 12/10/2025 Phone: 575-263-0431	Conditions of Approval Attached

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

WELL LOCATION INFORMATION

API Number 30-025-53798	Pool Code 96434	Pool Name RED HILLS; BONE SPRING, NORTH
Property Code 337733	Property Name ZN 34 3 STATE COM	Well Number 416H
OGRID No. 4323	Operator Name CHEVRON U.S.A. INC.	Ground Level Elevation 3462'
Surface Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		Mineral Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal

Surface Location

UL F	Section 34	Township 23S	Range 34E	Lot N/A	Ft. from North 2119	Ft. from West 2635	Latitude 32.262506° N	Longitude 103.457919° W	County LEA
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Bottom Hole Location

UL M	Section 3	Township 24S	Range 34E	Lot N/A	Ft. from South 25	Ft. from West 550	Latitude 32.239385° N	Longitude 103.464634° W	County LEA
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Dedicated Acres 320.03	Infill or Defining Well INFILL	Defining Well API PENDING- ZN 34 3 STATE COM 417H	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 E	Section 34	Township 23S	Range 34E	Lot N/A	Ft. from North 2390	Ft. from West 550	Latitude 32.261761° N	Longitude 103.464662° W	County LEA
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First Take Point (FTP)

UL L	Section 34	Township 23S	Range 34E	Lot N/A	Ft. from South 2613	Ft. from West 550	Latitude 32.261005° N	Longitude 103.464660° W	County LEA
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Last Take Point (LTP)

UL M	Section 3	Township 24S	Range 34E	Lot N/A	Ft. from South 100	Ft. from West 550	Latitude 32.239591° N	Longitude 103.464634° 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: 3462'
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OPERATOR CERTIFICATIONS 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. 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. <i>Cindy Herrera-Murillo</i> 12/10/2025 Signature Date Cindy Herrera-Murillo Printed Name Cherreramurillo@chevron.com Email Address		SURVEYOR CERTIFICATIONS I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  <i>Chad Harcrow</i> Signature and Seal of Professional Surveyor CHAD HARCROW Certificate Number 17777 Date of Survey 09/18/2024	
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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)

ZN 34 3 STATE COM NO. 416H WELL	PROPOSED KICK OFF POINT	PROPOSED FIRST TAKE POINT
X=770,749.95	X=768,667.77	X=768,670.52
Y=460,277.69	Y=459,989.84	Y=459,714.62
LAT.32.262383°N	LAT.32.261639°N	LAT.32.260882°N
LONG.103.457443°W	LONG.103.464186°W	LONG.103.464184°W

PPP #1	PPP #2	PPP #3
X=769,436.11	X=768,683.38	X=768,696.49
Y=460,096.06	Y=458,420.93	Y=457,102.26
LAT.32.261913°N	LAT.32.257326°N	LAT.32.253701°N
LONG.103.461697°W	LONG.103.464176°W	LONG.103.464168°W

PROPOSED LAST TAKE POINT	PROPOSED BOTTOM HOLE LOCATION
X=768,741.22	X=768,741.90
Y=451,924.47	Y=451,849.48
LAT.32.239468°N	LAT.32.239262°N
LONG.103.464159°W	LONG.103.464159°W

(NAD 83/2011 NM E)

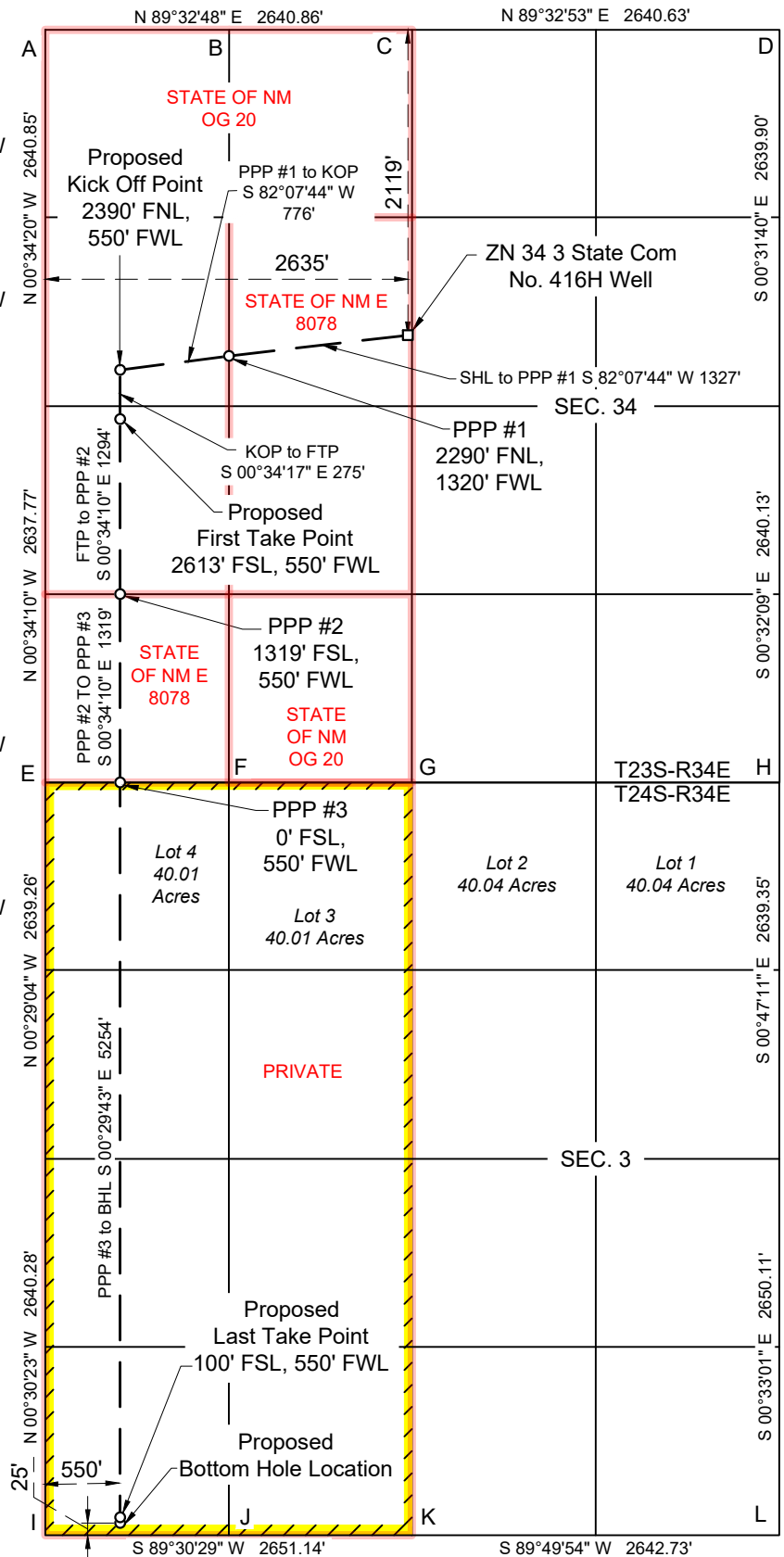
ZN 34 3 STATE COM NO. 416H WELL	PROPOSED KICK OFF POINT	PROPOSED FIRST TAKE POINT
X=811,934.18	X=809,851.97	X=809,854.72
Y=460,336.37	Y=460,048.49	Y=459,773.26
LAT.32.262506°N	LAT.32.261761°N	LAT.32.261005°N
LONG.103.457919°W	LONG.103.464662°W	LONG.103.464660°W

PPP #1	PPP #2	PPP #3
X=810,620.32	X=809,867.60	X=809,880.73
Y=460,154.72	Y=458,479.54	Y=457,160.84
LAT.32.262036°N	LAT.32.257449°N	LAT.32.253824°N
LONG.103.462173°W	LONG.103.464652°W	LONG.103.464644°W

PROPOSED LAST TAKE POINT	PROPOSED BOTTOM HOLE LOCATION
X=809,925.68	X=809,926.37
Y=451,982.94	Y=451,907.95
LAT.32.239591°N	LAT.32.239385°N
LONG.103.464634°W	LONG.103.464634°W

CORNER COORDINATES
(NAD 27 NM E)

A - X=768093.92, Y=462375.37 3/4" IP
 B - X=769414.05, Y=462,385.82
 C - X=770734.18, Y=462396.26 IP w/ CAP "1913"
 D - X=773374.21, Y=462417.09 IP w/ CAP "1913"
 E - X=768146.50, Y=457098.05 IP w/ CAP "1913"
 F - X=769464.90, Y=457108.14
 G - X=770783.29, Y=457118.23 IP w/ CAP "1913"
 H - X=773423.21, Y=457138.32 IP w/ CAP "1913"
 I - X=768192.14, Y=451819.76 IP w/ CAP "1913"
 J - X=769517.40, Y=451831.13
 K - X=770842.66, Y=451842.51 IP w/ CAP "1913"
 L - X=773484.86, Y=451850.27 IP w/ CAP "1913"



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

WELL LOCATION INFORMATION

API Number 30-025-55798	Pool Code 97621	Pool Name ANTELOPE RIDGE; BONE SPRING, SW
Property Code 337733	Property Name ZN 34 3 STATE COM	Well Number 416H
OGRID No. 4323	Operator Name CHEVRON U.S.A. INC.	Ground Level Elevation 3462'
Surface Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		Mineral Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal

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Order Numbers. N/A			Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

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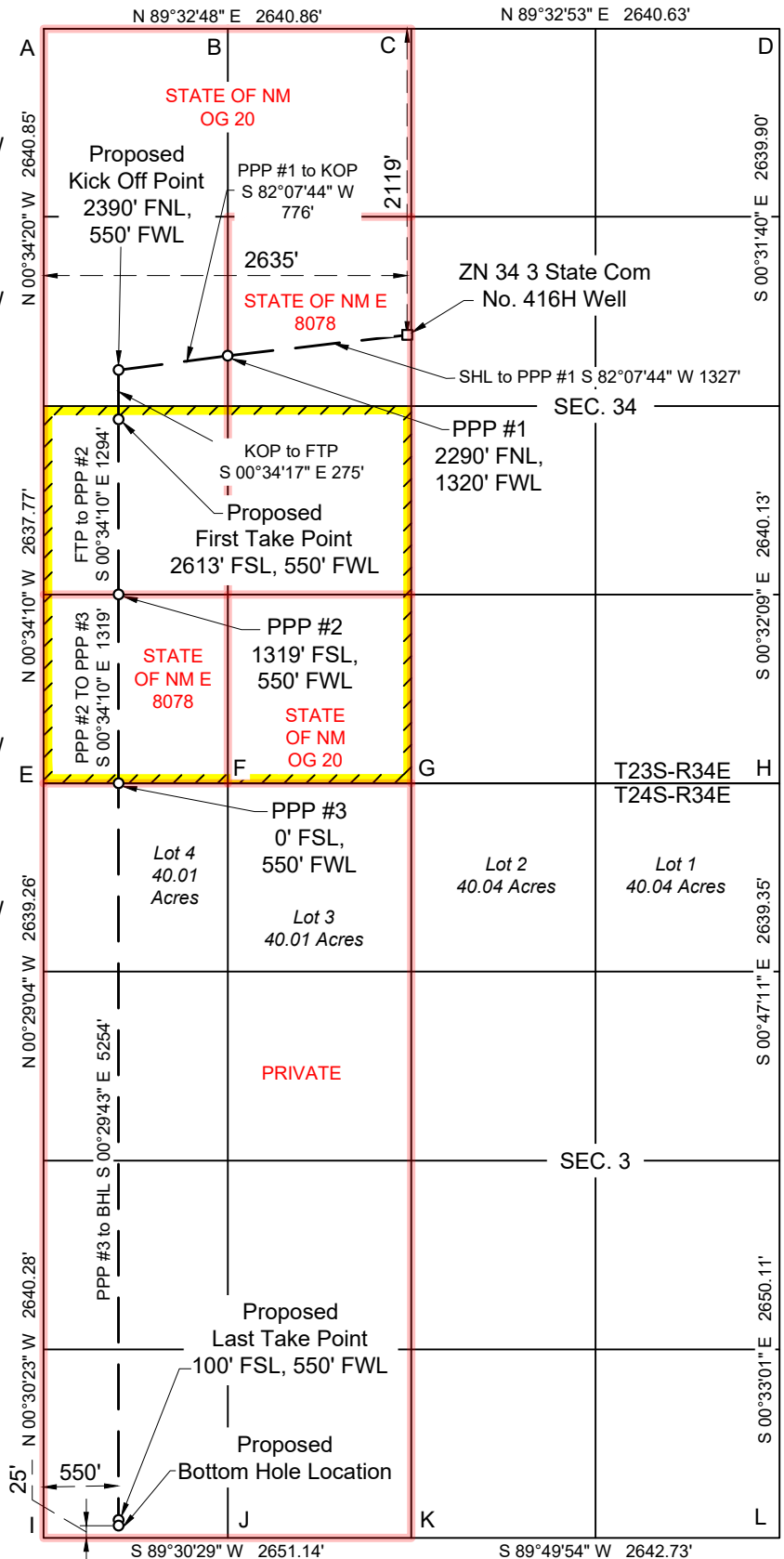
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(NAD 27 NM E)

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 H - X=773423.21, Y=457138.32 IP w/ CAP "1913"
 I - X=768192.14, Y=451819.76 IP w/ CAP "1913"
 J - X=769517.40, Y=451831.13
 K - X=770842.66, Y=451842.51 IP w/ CAP "1913"
 L - X=773484.86, Y=451850.27 IP w/ CAP "1913"



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

Form APD Comments

Permit 394491

PERMIT COMMENTS

Operator Name and Address: CHEVRON U S A INC [4323] 6301 Deauville Blvd Midland, TX 79706		API Number: 30-025-55798
		Well: ZN 34 3 STATE COM #416H
Created By	Comment	Comment Date
jeffrey.harrison	Please resubmit and make sure to create a second completion for the additional pool for the proposed well. Also please split up the individual C-102s and plats for each pool and upload each to its corresponding completion.	9/5/2025
jeffrey.harrison	Infill to PENDING Well 34 3 STATE COM 417H.	1/13/2026

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

General Information
Phone: (505) 629-6116

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

Form APD Conditions

Permit 394491

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: CHEVRON U S A INC [4323] 6301 Deauville Blvd Midland, TX 79706	API Number: 30-025-55798
	Well: ZN 34 3 STATE COM #416H

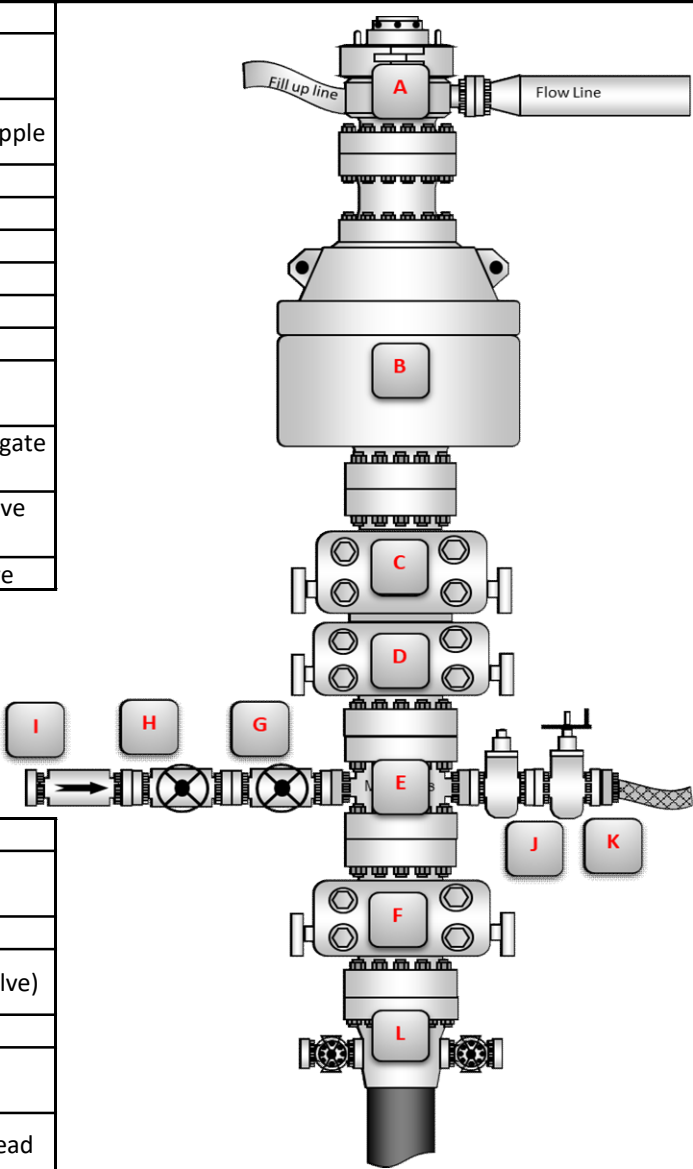
OCD Reviewer	Condition
jeffrey.harrison	Administrative order required for non-standard location prior to production.
jeffrey.harrison	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.
jeffrey.harrison	NSP required if not included in an existing order or not an infill to an appropriate defining well in the same pool and spacing unit.
jeffrey.harrison	Cement is required to circulate on both surface and intermediate1 strings of casing.
jeffrey.harrison	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.
jeffrey.harrison	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.
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.
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.

BLOWOUT PREVENTER SCHEMATIC

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

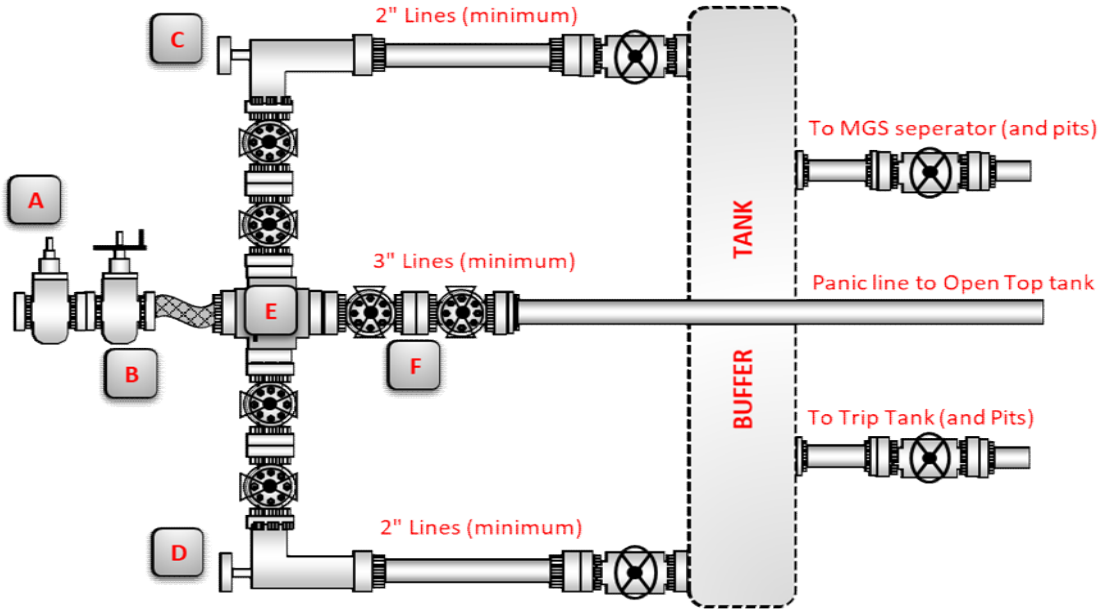
BOP Stack			
Part	Size	Pressure Rating	Description
A	13-5/8"	N/A	Rotating Head/Bell nipple
B	13-5/8"	5,000	Annular
C	13-5/8"	5,000	Blind Ram
D	13-5/8"	5,000	Pipe Ram
E	13-5/8"	5,000	Mud Cross
F	13-5/8"	5,000	Pipe Ram
Kill Line			
Part	Size	Pressure Rating	Description
G	2"	5,000	Inside Kill Line Valve (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 install 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.

CHOKE MANIFOLD SCHEMATIC			
Operation:		Intermediate(s)	
Minimum System operation pressure			5,000 psi
Choke Manifold			
Part	Size	Pressure Rating	Description
A	3"	5,000	HCR (remotely operated)
B	3"	5,000	HCR (manually operated)
C	2"	5,000	Remotely operated choke
D	2"	5,000	Adjustable choke
E	3"	5,000	Crown valve with pressure gage
F	3"	5,000	Panic line valves



Choke Manifold 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.
Adjustable chokes may be remotely operated but will have backup hand pump for hydraulic actuation in case of loss of rig air or power.
Flare and panic lines will terminate a minimum of 150' from the wellhead. These lines will terminate at a location as per approved APD.
The choke line, kill line and choke manifold lines will be straight unless turns use tee blocks or targeted with running tees, and will be anchored to prevent whip and reduce vibrations. A variance will be submitted if a flexible choke line will be used.
All valves (except chokes) on choke line, kill line and choke manifold will be full opening and will allow straight through flow. This excludes any valves between the mud gas separator and shale shakers.
All manual valves will have hand wheels installed.
Flare systems will have an effective method for ignition.
All connections will be flanged, welded or clamped
If buffer tank is used, a valve will be used on all lines at any entry or exit point to or from the buffer tank.



H₂S Preparedness and Contingency Plan Summary

Training

MCBU Drilling and Completions H₂S 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 H₂S.

Awareness Level

Employees and visitors to MCBU Drilling and Completions locations that have known concentrations of H₂S, who are not required to perform work in H₂S areas, will be provided with an awareness level of H₂S training prior to entering any H₂S areas. At a minimum, awareness level training will include:

1. Physical and chemical properties of H₂S
2. Health hazards of H₂S
3. Personal protective equipment
4. Information regarding potential sources of H₂S
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 H₂S Training

Employees and contractors required to work in areas that may contain H₂S will be provided with Advanced Level H₂S training prior to initial assignment. In addition to the Awareness Level requirements, Advanced Level H₂S training will include:

1. H₂S safe work practice procedures.
2. Emergency contingency plan procedures.
3. Methods to detect the presence or release of H₂S (e.g., alarms, monitoring equipment), including hands-on training with direct reading and personal monitoring H₂S equipment.
4. Basic overview of respiratory protective equipment suitable for use in H₂S 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 H₂S training.
6. Proficiency examination covering all course material.

Advanced H₂S training courses will be instructed by personnel who have successfully completed an appropriate H₂S train-the-trainer development course (ANSI/ASSE Z390.1-2006) or who possess significant past experience through educational or work-related background.

H₂S Preparedness and Contingency Plan Summary

H₂S Training Certification

All employees and visitors will be issued an H₂S training certification card (or certificate) upon successful completion of the appropriate H₂S training course. Personnel working in an H₂S environment will carry a current H₂S 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.

H₂S 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.

H₂S Detection and Monitoring System

- a) H₂S 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.



H₂S 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



H₂S Preparedness and Contingency Plan Summary

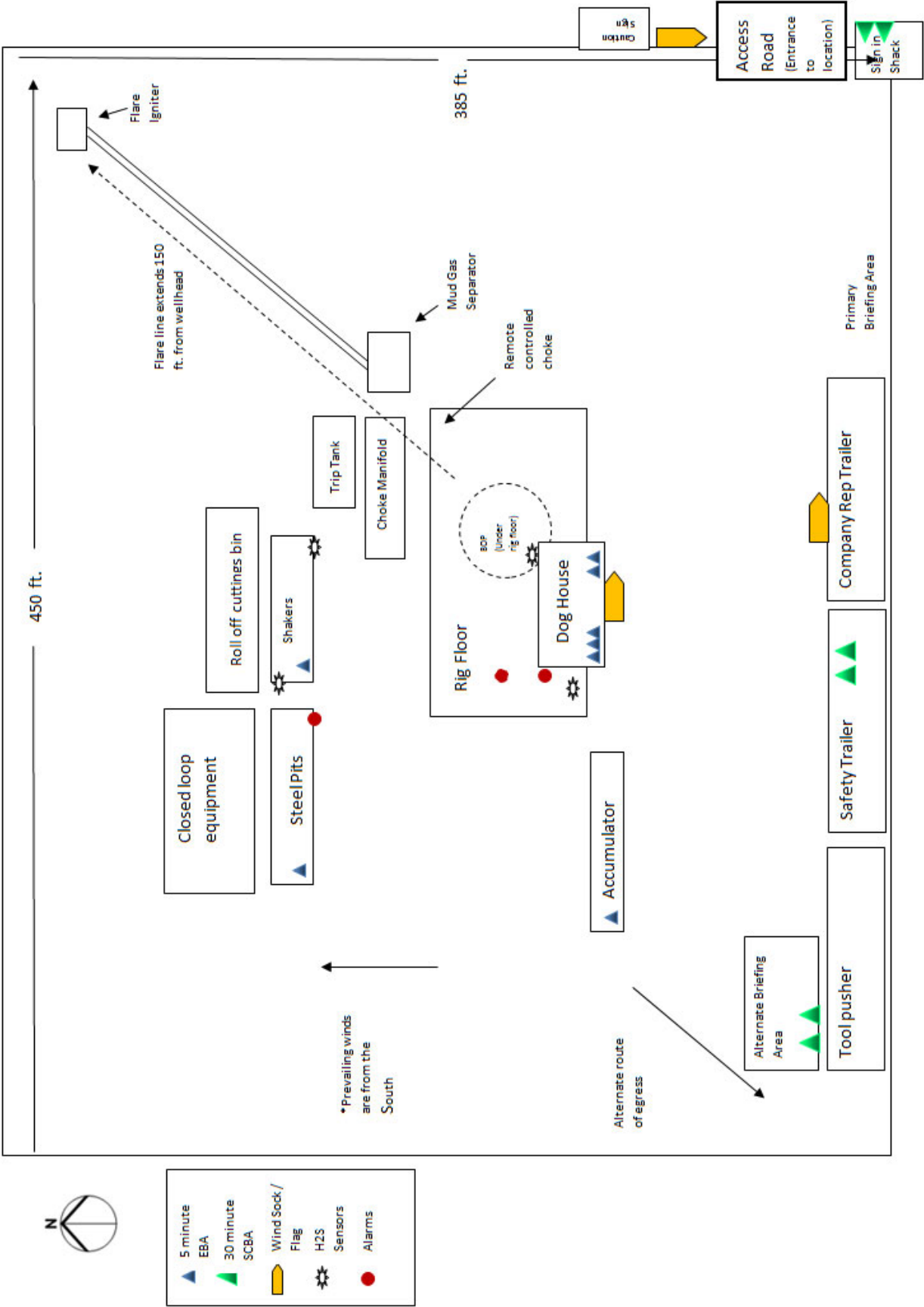
Chevron MCBU D&C Emergency Notifications

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

	Name	Title	Office Number	Cell Phone
1.	TBD	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		



H₂S Preparedness and Contingency Plan Summary





ZN 34 3 State Com No. 416H R0 mdv 22Jul25 Proposal Geodetic Report



Def Plan

Report Date: July 24, 2025 - 09:14 PM (UTC 0)
Client: Chevron
Field: NM, Lea County (NAD 27 EZ)
Structure / Slot: Chevron Zion Pad 11 / 416H
Well: ZN 34 3 State Com No. 416H
Borehole: ZN 34 3 State Com No. 416H
UBH / API#: Unknown / Unknown
Survey Name: ZN 34 3 State Com No. 416H R0 mdv 22Jul25
Survey Date: July 24, 2025
Tort / AHD / DDI / ERD Ratio: 129.586' / 10645.233 ft / 6.391' / 1.004
Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: 32°15'44.57998"N, 103°27'26.79401"W
Location Grid NIE Y/X: N 460277.690 RUS, E 770749.990 RUS
CRS Grid Convergence Angle: 0.468"
Grid Scale Factor: 0.99999305(Applied)
Version / Patch: 2024.5.0.1

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 179.480 °(GRID North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3490.000 ft above MSL
Seabed / Ground Elevation: 3462.000 ft above MSL
Magnetic Declination: 6.089°
Total Gravity Field Strength: 998.4608mg (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47204.376 nT
Magnetic Dip Angle: 59.719°
Declination Date: July 23, 2025
Magnetic Declination Model: Grid North
North Reference: Grid North
Grid Convergence Used: 0.468"
Total Corr Mag North->Grid North: 5.621"
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
Surface	0.00	0.00	0.00	0.00	-3,490.00	0.00	0.00	0.00		460,277.69	770,749.95	32.26238333	-103.45744278
	100.00	0.00	273.47	100.00	-3,390.00	0.00	0.00	0.00	0.00	460,277.69	770,749.95	32.26238333	-103.45744278
	200.00	0.00	273.47	200.00	-3,290.00	0.00	0.00	0.00	0.00	460,277.69	770,749.95	32.26238333	-103.45744278
	300.00	0.00	273.47	300.00	-3,190.00	0.00	0.00	0.00	0.00	460,277.69	770,749.95	32.26238333	-103.45744278
	400.00	0.00	273.47	400.00	-3,090.00	0.00	0.00	0.00	0.00	460,277.69	770,749.95	32.26238333	-103.45744278
	500.00	1.50	273.47	499.99	-2,990.01	-0.09	0.08	-1.31	1.50	460,277.77	770,748.64	32.26238357	-103.45744701
Build 1.5"/100ft	600.00	3.00	273.47	599.91	-2,890.09	-0.36	0.32	-5.23	1.50	460,278.01	770,744.72	32.26238431	-103.45745968
	700.00	4.50	273.47	699.69	-2,790.31	-0.82	0.71	-11.75	1.50	460,278.40	770,738.20	32.26238555	-103.45748078
	800.00	6.00	273.47	799.27	-2,690.73	-1.46	1.27	-20.89	1.50	460,278.96	770,729.06	32.26238728	-103.45751031
	900.00	7.50	273.47	898.57	-2,591.43	-2.27	1.98	-32.62	1.50	460,279.67	770,717.33	32.26238949	-103.45754824
	954.62	8.32	273.47	952.67	-2,537.33	-2.80	2.43	-40.12	1.50	460,280.12	770,710.12	32.26239091	-103.45757250
	1,000.00	9.00	273.47	997.54	-2,492.46	-3.27	2.85	-46.94	1.50	460,280.54	770,703.01	32.26239220	-103.45759455
Rustler (RSLR)	1,100.00	10.50	273.47	1,096.09	-2,393.91	-4.45	3.87	-63.84	1.50	460,281.56	770,686.11	32.26239540	-103.45764920
	1,200.00	12.00	273.47	1,194.16	-2,295.84	-5.81	5.05	-83.32	1.50	460,282.74	770,666.63	32.26239908	-103.45771215
	1,300.00	13.50	273.47	1,291.70	-2,198.30	-7.34	6.38	-105.35	1.50	460,284.07	770,644.61	32.26240324	-103.45778338
	1,334.47	14.02	273.47	1,325.18	-2,164.82	-7.91	6.88	-113.53	1.50	460,284.57	770,636.42	32.26240479	-103.45780993
	1,400.00	15.00	273.47	1,388.62	-2,101.38	-9.05	7.87	-129.92	1.50	460,285.56	770,620.04	32.26240788	-103.45786281
	1,500.00	16.50	273.47	1,484.86	-2,005.14	-10.94	9.52	-157.01	1.50	460,287.21	770,592.94	32.26241300	-103.45795041
Salido (SLDO)	1,600.00	18.00	273.47	1,580.36	-1,909.64	-13.00	11.31	-186.61	1.50	460,289.00	770,563.34	32.26241860	-103.45804610
	1,700.00	19.50	273.47	1,675.05	-1,814.95	-15.24	13.25	-218.69	1.50	460,290.94	770,531.26	32.26242466	-103.45814984
	1,787.92	20.82	273.47	1,757.58	-1,732.42	-17.35	15.09	-248.93	1.50	460,292.78	770,501.02	32.26243038	-103.45824761
	1,800.00	20.82	273.47	1,768.87	-1,721.13	-17.65	15.35	-253.22	0.00	460,293.04	770,496.73	32.26243119	-103.45826147
	1,900.00	20.82	273.47	1,862.34	-1,627.66	-20.12	17.50	-288.70	0.00	460,295.19	770,461.25	32.26243789	-103.45837617
	2,000.00	20.82	273.47	1,955.81	-1,534.19	-22.59	19.65	-324.17	0.00	460,297.34	770,425.78	32.26244460	-103.45849087
Hold	2,100.00	20.82	273.47	2,049.28	-1,440.72	-25.06	21.80	-359.65	0.00	460,299.49	770,390.30	32.26245130	-103.45860557
	2,200.00	20.82	273.47	2,142.76	-1,347.24	-27.53	23.95	-395.13	0.00	460,301.64	770,354.83	32.26245801	-103.45872027
	2,300.00	20.82	273.47	2,236.23	-1,253.77	-30.01	26.10	-430.60	0.00	460,303.79	770,319.35	32.26246471	-103.45883496
	2,400.00	20.82	273.47	2,329.70	-1,160.30	-32.48	28.25	-466.08	0.00	460,305.94	770,283.88	32.26247142	-103.45894966
	2,500.00	20.82	273.47	2,423.17	-1,066.83	-34.95	30.40	-501.55	0.00	460,308.09	770,248.40	32.26247812	-103.45906436
	2,600.00	20.82	273.47	2,516.64	-973.36	-37.42	32.55	-537.03	0.00	460,310.24	770,212.92	32.26248483	-103.45917906
Castile (CSTL)	2,700.00	20.82	273.47	2,610.11	-879.89	-39.89	34.70	-572.51	0.00	460,312.39	770,177.45	32.26249153	-103.45929376
	2,800.00	20.82	273.47	2,703.58	-786.42	-42.37	36.85	-607.98	0.00	460,314.54	770,141.97	32.26249824	-103.45940846
	2,900.00	20.82	273.47	2,797.05	-692.95	-44.84	39.00	-643.46	0.00	460,316.69	770,106.50	32.26250494	-103.45952315
	3,000.00	20.82	273.47	2,890.52	-599.48	-47.31	41.15	-678.94	0.00	460,318.84	770,071.02	32.26251164	-103.45963785
	3,100.00	20.82	273.47	2,983.99	-506.01	-49.78	43.30	-714.41	0.00	460,320.99	770,035.54	32.26251835	-103.45975255
	3,200.00	20.82	273.47	3,077.46	-412.54	-52.25	45.45	-749.89	0.00	460,323.14	770,000.07	32.26252505	-103.45986725
Bell Canyon (BEL)	3,300.00	20.82	273.47	3,170.94	-319.06	-54.73	47.60	-785.36	0.00	460,325.29	769,964.59	32.26253175	-103.45998195
	3,400.00	20.82	273.47	3,264.41	-225.59	-57.20	49.75	-820.84	0.00	460,327.44	769,929.12	32.26253846	-103.46009665
	3,500.00	20.82	273.47	3,357.88	-132.12	-59.67	51.90	-856.32	0.00	460,329.59	769,893.64	32.26254516	-103.46021134
	3,600.00	20.82	273.47	3,451.35	-38.65	-62.14	54.05	-891.79	0.00	460,331.74	769,858.17	32.26255186	-103.46032604
	3,624.99	20.82	273.47	3,474.71	-15.29	-62.76	54.59	-900.66	0.00	460,332.28	769,849.30	32.26255354	-103.46035571
	3,700.00	20.82	273.47	3,544.82	54.82	-64.61	56.20	-927.27	0.00	460,333.89	769,822.69	32.26255857	-103.46040474
Cherry Canyon (CHR)	3,800.00	20.82	273.47	3,638.29	148.29	-67.09	58.35	-962.75	0.00	460,336.04	769,787.21	32.26256527	-103.46055544
	3,900.00	20.82	273.47	3,731.76	241.76	-69.56	60.50	-998.22	0.00	460,338.19	769,751.74	32.26257197	-103.46067014
	4,000.00	20.82	273.47	3,825.23	335.23	-72.03	62.65	-1,033.70	0.00	460,340.34	769,716.26	32.26257868	-103.46078484
	4,100.00	20.82	273.47	3,918.70	428.70	-74.50	64.80	-1,069.17	0.00	460,342.49	769,680.79	32.26258538	-103.46089954
	4,200.00	20.82	273.47	4,012.17	522.17	-76.97	66.95	-1,104.65	0.00	460,344.64	769,645.31	32.26259208	-103.46101424
	4,300.00	20.82	273.47	4,105.65	615.65	-79.45	69.10	-1,140.13	0.00	460,346.79	769,609.83	32.26259879	-103.46112893
Lamar (LMAR)	4,400.00	20.82	273.47	4,199.12	709.12	-81.92	71.25	-1,175.60	0.00	460,348.94	769,574.36	32.26260549	-103.46124363
	4,500.00	20.82	273.47	4,292.59	802.59	-84.39	73.40	-1,211.08	0.00	460,351.09	769,538.88	32.26261219	-103.46135833
	4,600.00	20.82	273.47	4,386.06	896.06	-86.86	75.55	-1,246.55	0.00	460,353.24	769,503.41	32.26261889	-103.46147303
	4,700.00	20.82	273.47	4,479.53	989.53	-89.34	77.70	-1,282.03	0.00	460,355.39	769,467.93	32.26262559	-103.46158773
	4,800.00	20.82	273.47	4,573.00	1,083.00	-91.81	79.85	-1,317.51	0.00	460,357.54	769,432.45	32.26263230	-103.46170243
	4,900.00	20.82	273.47	4,666.47	1,176.47	-94.28	82.00	-1,352.98	0.00	460,359.69	769,396.98	32.26263900	-103.46181713
Bell Canyon (BEL)	5,000.00	20.82	273.47	4,759.94	1,269.94	-96.75	84.15	-1,388.46	0.00	460,361.84	769,361.50	32.26264570	-103.46193182
	5,100.00	20.82	273.47	4,853.41	1,363.41	-99.22	86.30	-1,423.94	0.00	460,363.99	769,326.03	32.26265240	-103.46204652
	5,200.00	20.82	273.47	4,946.88	1,456.88	-101.70	88.45	-1,459.41	0.00	460,366.14	769,290.55	32.26265910	-103.46216122
	5,300.00	20.82	273.47	5,040.35	1,550.35	-104.17	90.60	-1,494.89	0.00	460,368.29	769,255.08	32.26266581	-103.46227592
	5,334.65	20.82	273.47	5,072.74	1,562.74	-105.02	91.75	-1,507.18	0.00	460,369.04	769,242.78	32.26266833	-103.46231566
	5,382.17	20.82	273.47	5,117.16	1,627.16	-106.20	92.37	-1,524.04	0.00	460,370.06	769,225.92	32.26267131	-103.46237017
Cherry Canyon (CHR)	5,400.00	20.82	273.47	5,133.83	1,643.83	-106.64	92.75	-1,530.36	0.00	460,370.44	769,219.60	32.26267251	-103.46239062
	5,500.00	20.82	273.47	5,227.30	1,737.30	-109.11	94.90	-1,565.84	0.00	460,372.59	769,184.12	32.26267921	-103.46250532
	5,600.00	20.82	273.47	5,320.77	1,830.77	-111.58	97.05	-1,601.32	0.00	460,374.74	769,148.65	32.26268591	-103.46262002
	5,700.00	20.82	273.47	5,414.24	1,924.24	-114.06	99.21	-1,636.79	0.00	460,376.89	769,113.17	32.26269261	-103.46273472
	5,800.00	20.82	273.47	5,507.71	2,017.71	-116.53	101.36	-1,672.27	0.00	460,379.04	769,077.70	32.26269931	-103.46284942
	5,900.00	20.82	273.47	5,601.18	2,111.18	-119.00	103.51	-1,707.75	0.00	460,381.19	769,042.22	32.26270601	-103.46296412
Drop 1.5"/100ft	6,000.00	20.82	273.47	5,694.65	2,204.65	-121.47	10						

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (7/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
Lower Avalon (AVL)	9,352.11	0.00	273.47	8,990.09	5,509.09	-145.38	126.45	-2.086.31	0.00	460,404.14	768,663.66	32.26277751	-103.46418806
	9,400.00	0.00	273.47	9,046.98	5,556.98	-145.38	126.45	-2.086.31	0.00	460,404.14	768,663.66	32.26277751	-103.46418806
	9,500.00	0.00	273.47	9,146.98	5,656.98	-145.38	126.45	-2.086.31	0.00	460,404.14	768,663.66	32.26277751	-103.46418806
	9,600.00	0.00	273.47	9,246.98	5,756.98	-145.38	126.45	-2.086.31	0.00	460,404.14	768,663.66	32.26277751	-103.46418806
	9,700.00	0.00	273.47	9,346.98	5,856.98	-145.38	126.45	-2.086.31	0.00	460,404.14	768,663.66	32.26277751	-103.46418806
Build 8"/100ft	9,800.00	0.00	273.47	9,446.98	5,956.98	-145.38	126.45	-2.086.31	0.00	460,404.14	768,663.66	32.26277751	-103.46418806
	9,900.00	0.00	273.47	9,546.98	6,056.98	-145.38	126.45	-2.086.31	0.00	460,404.14	768,663.66	32.26277751	-103.46418806
	9,945.32	0.00	273.47	9,592.30	6,102.30	-145.38	126.45	-2.086.31	0.00	460,404.14	768,663.66	32.26277751	-103.46418806
	10,000.00	4.37	179.43	9,646.93	6,156.93	-143.29	124.36	-2.086.29	8.00	460,402.05	768,663.68	32.26277178	-103.46418805
	10,018.44	5.85	179.43	9,665.30	6,175.30	-141.65	122.72	-2.086.27	8.00	460,400.41	768,663.70	32.26276726	-103.46418804
First Bone Spring Upper (FBU)	10,100.00	12.37	179.43	9,745.78	6,255.78	-128.74	109.81	-2.086.14	8.00	460,387.50	768,663.82	32.26273177	-103.46418796
	10,200.00	20.37	179.43	9,841.65	6,351.65	-100.57	81.64	-2.085.86	8.00	460,359.33	768,664.10	32.26265435	-103.46418780
	10,282.33	25.36	179.43	9,899.06	6,409.06	-76.36	57.43	-2.085.62	8.00	460,335.12	768,664.34	32.26258779	-103.46418765
	10,300.00	28.37	179.43	9,932.66	6,442.66	-59.33	43.41	-2.085.45	8.00	460,318.10	768,664.51	32.26254100	-103.46418755
	10,400.00	36.37	179.43	10,017.05	6,527.05	-5.83	-10.09	-2.084.92	8.00	460,264.60	768,665.05	32.26239394	-103.46418723
Second Bone Spring Upper (SBU)	10,500.00	44.37	179.43	10,093.17	6,603.17	58.89	-77.81	-2.084.28	8.00	460,199.88	768,665.69	32.26221602	-103.46418684
	10,600.00	52.37	179.43	10,159.54	6,669.54	133.58	-152.50	-2.083.54	8.00	460,125.19	768,666.43	32.26201072	-103.46418640
	10,680.85	57.24	179.43	10,194.60	6,704.60	183.30	-202.21	-2.083.04	8.00	460,075.48	768,666.93	32.26187407	-103.46418610
	10,700.00	60.37	179.43	10,214.87	6,724.87	216.78	-235.69	-2.082.71	8.00	460,042.00	768,667.26	32.26178203	-103.46418590
	10,800.00	68.37	179.43	10,258.09	6,768.09	306.87	-325.78	-2.081.81	8.00	459,951.91	768,668.16	32.26153439	-103.46418536
Landing Point FTP Cross	10,900.00	76.37	179.43	10,288.34	6,798.34	402.10	-421.00	-2.080.87	8.00	459,856.69	768,669.10	32.26127264	-103.46418479
	11,000.00	84.37	179.43	10,305.05	6,815.05	500.61	-519.51	-2.079.89	8.00	459,758.18	768,670.08	32.26100185	-103.46418421
	11,043.88	87.87	179.43	10,308.00	6,818.00	544.19	-563.08	-2.079.45	8.00	459,714.61	768,670.52	32.26088208	-103.46418395
	11,043.78	87.87	179.43	10,308.01	6,818.01	544.29	-563.18	-2.079.45	8.00	459,714.51	768,670.52	32.26088181	-103.46418395
	11,100.00	87.87	179.43	10,310.10	6,820.10	600.47	-619.36	-2.078.89	8.00	459,658.33	768,671.08	32.26072738	-103.46418361
PP2P, Turn 2"/100ft Hold	11,200.00	87.87	179.43	10,313.81	6,823.81	700.40	-719.29	-2.077.90	0.00	459,558.41	768,672.07	32.26045270	-103.46418301
	11,300.00	87.87	179.43	10,317.53	6,827.53	800.33	-819.21	-2.076.91	0.00	459,458.48	768,673.06	32.26017802	-103.46418242
	11,400.00	87.87	179.43	10,321.25	6,831.25	900.26	-919.14	-2.075.91	0.00	459,358.56	768,674.06	32.25990334	-103.46418182
	11,500.00	87.87	179.43	10,324.97	6,834.97	1,000.19	-1,019.06	-2.074.92	0.00	459,258.63	768,675.05	32.25962865	-103.46418122
	11,600.00	87.87	179.43	10,328.69	6,838.69	1,100.12	-1,118.99	-2.073.93	0.00	459,158.71	768,676.04	32.25935397	-103.46418063
PP2P, Turn 2"/100ft Hold	11,700.00	87.87	179.43	10,332.41	6,842.41	1,200.05	-1,219.92	-2.072.93	0.00	459,058.78	768,677.04	32.25907929	-103.46418003
	11,800.00	87.87	179.43	10,336.12	6,846.12	1,299.98	-1,318.84	-2.071.94	0.00	458,958.86	768,678.03	32.25880461	-103.46417943
	11,900.00	87.87	179.43	10,339.84	6,849.84	1,399.91	-1,418.77	-2.070.94	0.00	458,858.93	768,679.02	32.25852992	-103.46417883
	12,000.00	87.87	179.43	10,343.56	6,853.56	1,499.85	-1,518.69	-2.069.95	0.00	458,759.01	768,680.02	32.25825524	-103.46417824
	12,100.00	87.87	179.43	10,347.28	6,857.28	1,599.78	-1,618.62	-2.068.96	0.00	458,659.08	768,681.01	32.25798056	-103.46417764
PPP2, Turn 2"/100ft Hold to TD	12,200.00	87.87	179.43	10,351.00	6,861.00	1,699.71	-1,718.55	-2.067.96	0.00	458,559.16	768,682.01	32.25770588	-103.46417704
	12,300.00	87.87	179.43	10,354.71	6,864.71	1,799.64	-1,818.47	-2.066.97	0.00	458,459.23	768,683.00	32.25743119	-103.46417645
	12,338.33	87.87	179.43	10,356.14	6,866.14	1,837.94	-1,858.78	-2.066.59	0.00	458,420.93	768,683.38	32.25732590	-103.46417622
	12,338.61	87.87	179.43	10,356.15	6,866.15	1,838.22	-1,857.05	-2.066.59	2.00	458,420.65	768,683.38	32.25732514	-103.46417622
	12,400.00	87.87	179.43	10,358.43	6,868.43	1,899.57	-1,918.40	-2.065.98	0.00	458,359.31	768,683.99	32.25715651	-103.46417585
PPP3, Turn 2"/100ft Hold to TD	12,500.00	87.87	179.43	10,362.14	6,872.14	1,999.50	-2,018.32	-2.064.98	0.00	458,259.38	768,684.99	32.25688183	-103.46417525
	12,600.00	87.87	179.43	10,365.84	6,875.84	2,099.43	-2,118.25	-2.063.99	0.00	458,159.46	768,685.98	32.25660778	-103.46417466
	12,700.00	87.87	179.43	10,369.55	6,879.55	2,199.36	-2,218.18	-2.063.00	0.00	458,059.53	768,686.97	32.25633346	-103.46417407
	12,800.00	87.87	179.43	10,373.26	6,883.26	2,299.29	-2,318.10	-2.062.00	0.00	457,959.61	768,687.97	32.25605778	-103.46417347
	12,900.00	87.87	179.43	10,376.97	6,886.97	2,399.22	-2,418.03	-2.061.01	0.00	457,859.68	768,688.96	32.25578310	-103.46417287
PPP3, Turn 2"/100ft Hold to TD	13,000.00	87.87	179.43	10,380.68	6,890.68	2,499.16	-2,517.96	-2.060.02	0.00	457,759.76	768,689.95	32.25550841	-103.46417227
	13,100.00	87.87	179.43	10,384.39	6,894.39	2,599.09	-2,617.88	-2.059.03	0.00	457,659.83	768,690.95	32.25523373	-103.46417168
	13,200.00	87.87	179.43	10,388.10	6,898.10	2,699.02	-2,717.81	-2.058.02	0.00	457,559.91	768,691.94	32.25495904	-103.46417108
	13,300.00	87.87	179.43	10,391.80	6,901.80	2,798.95	-2,817.74	-2.057.03	0.00	457,459.98	768,692.93	32.25468436	-103.46417048
	13,400.00	87.87	179.43	10,395.51	6,905.51	2,898.88	-2,917.66	-2.056.04	0.00	457,360.06	768,693.93	32.25440968	-103.46416989
PPP3, Turn 2"/100ft Hold to TD	13,500.00	87.87	179.43	10,399.22	6,909.22	2,998.81	-3,017.59	-2.055.05	0.00	457,260.13	768,694.92	32.25413499	-103.46416929
	13,600.00	87.87	179.43	10,402.93	6,912.93	3,098.74	-3,117.51	-2.054.05	0.00	457,160.20	768,695.91	32.25386031	-103.46416869
	13,657.99	87.87	179.43	10,405.08	6,915.08	3,156.69	-3,175.46	-2.053.48	0.00	457,102.26	768,696.49	32.25370103	-103.46416835
	13,661.70	87.87	179.50	10,405.22	6,915.22	3,160.40	-3,179.17	-2.053.44	2.00	457,098.55	768,696.52	32.25369093	-103.46416833
	13,700.00	87.87	179.50	10,406.64	6,916.64	3,198.67	-3,217.44	-2.053.11	0.00	457,060.28	768,696.86	32.25358563	-103.46416827
PPP3, Turn 2"/100ft Hold to TD	13,800.00	87.87	179.50	10,410.35	6,920.35	3,298.61	-3,317.37	-2.052.25	0.00	456,960.35	768,697.72	32.25331094	-103.46416809
	13,900.00	87.87	179.50	10,414.05	6,924.05	3,398.54	-3,417.30	-2.051.39	0.00	456,860.43	768,698.58	32.25303626	-103.46416791
	14,000.00	87.87	179.50	10,417.76	6,927.76	3,498.47	-3,517.22	-2.050.52	0.00	456,760.50	768,699.45	32.25276158	-103.46416773
	14,100.00	87.87	179.50	10,421.47	6,931.47	3,598.40	-3,617.15	-2.049.66	0.00	456,660.57	768,700.31	32.25248689	-103.46416756
	14,200.00	87.87	179.50	10,425.18	6,935.18	3,698.33	-3,717.08	-2.048.79	0.00	456,560.65	768,701.17	32.25221221	-103.46416738
PPP3, Turn 2"/100ft Hold to TD	14,300.00	87.87	179.50	10,428.89	6,938.89	3,798.26	-3,817.01	-2.047.93	0.00	456,460.72	768,702.04	32.25193752	-103.46416720
	14,400.00	87.87	179.50	10,432.59	6,942.59	3,898.19	-3,916.93	-2.047.07	0.00	456,360.79	768,702.90	32.25166284	-103.46416702
	14,500.00	87.87	179.50	10,436.30	6,946.30	3,998.12	-4,016.86	-2.046.20	0.00	456,260.87	768,703.77	32.25138816	-103.46416685
	14,600.00	87.87	179.50	10,440.01	6,950.01	4,098.06	-4,116.79	-2.045.34	0.00	456,160.94	768,704.63	32.25111347	-103.46416667
	14,700.00	87.87	179.50	10,443.72	6,953.72	4,197.99	-4,216.72	-2.044.47	0.00	456,061.01	768,705.49	32.25083879	-103.4

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (7100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
8,686.017		8.750		7.000									
18,914.626		6.125											

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: 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 34 3 STATE COM 416H	Pending	UL-F Sec 34 23S 34E	2119'FNL 2635' FWL	1815 BBL/D	3116 MCF/D	2397 BBL/D
ZN 34 3 STATE COM 417H	Pending	UL-G Sec 34 23S 34E	2119'FNL 2604' FEL	1815 BBL/D	3116 MCF/D	2397 BBL/D
ZN 34 3 STATE COM 418H	Pending	UL-G Sec 34 23S 34E	2120'FNL 2564' FEL	1815 BBL/D	3116 MCF/D	2397 BBL/D
ZN 34 3 STATE COM 616H	Pending	UL-G Sec 34 23S 34E	2119'FNL 2624' FEL	1815 BBL/D	3116 MCF/D	2397 BBL/D
ZN 34 3 STATE COM 617H	Pending	UL-G Sec 34 23S 34E	2120'FNL 2584' FEL	1815 BBL/D	3116 MCF/D	2397 BBL/D
ZN 34 3 STATE COM 618H	Pending	UL G Sec 34 23S 34E	2120'FNL 2544' FEL	1815 BBL/D	3116 MCF/D	2397 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 34 3 STATE COM 416H	Pending	<u>11/21/2027</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
ZN 34 3 STATE COM 417H	Pending	<u>11/21/2027</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
ZN 34 3 STATE COM 418H	Pending	<u>11/21/2027</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
ZN 34 3 STATE COM 616H	Pending	<u>11/21/2027</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
ZN 34 3 STATE COM 617H	Pending	<u>11/21/2027</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
ZN 34 3 STATE COM 618H	Pending	<u>11/21/2027</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

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>Cindy Herrera-Murillo</i>
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
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)	
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.

Chevron
ZN 34 3 State Com 416H
Lea County, NM

Pad Summary: ZN Pad 11

The table below lists all the wells for the given pad and their respective name and TVD's (ft) for their production target intervals:

Well Name(s)	Target TVD	Formation Desc.
ZN 34 3 State Com 416H	10,600	Bonespring
ZN 34 3 State Com 417H	10,617	Bonespring
ZN 34 3 State Com 418H	10,635	Bonespring
ZN 34 3 State Com 616H	11,594	Wolfcamp A
ZN 34 3 State Com 617H	11,619	Wolfcamp A
ZN 34 3 State Com 618H	11,646	Wolfcamp A

1. GEOLOGICAL TOPS

Elevation: As seen in C-102

The estimated tops of important geologic markers are as follows:

FORMATION	LITHOLOGIES	TVD	MD	Producing Formation?
Rustler (RSLR)☐	Sandstone	953	955	No
Saldo (SLDO)☐	Anhydrite/Salt	1,325	1,334	No
Castile (CSTL)☐	Anhydrite/Salt	3,475	3,624	No
Lamar (LMAR)☐	Limestone/Shale	5,073	5,333	No
Bell Canyon (BEL)☐	Sandstone/Limestone	5,117	5,381	No
Cherry Canyon (CHR)☐	Sandstone/Siltstone	5,933	6,253	No
Brushy Canyon (BCN)☐	Shale/Siltstone	7,300	7,651	No
Bone Spring Lime (BSL)☐	Sandstone/Limestone	8,590	8,941	No
Upper Avalon (AVU)☐	Shale	8,717	9,068	No
Lower Avalon (AVL)☐	Shale	8,999	9,350	No
First Bone Spring Upper (FBU)☐	Shale	9,665	10,016	No
First Bone Spring Lower (FBL)☐	Shale	9,899	10,253	No
Second Bone Spring Upper (SBU)☐	Shale	10,195	10,619	Yes: Oil & Natural Gas

WELLBORE LOCATIONS	MD	TVD
SHL	-	-
KOP	10,087	9,735
FTP	10,965	10,308
LTP	18,761	10,597
BHL	18,836	10,600

Chevron
ZN 34 3 State Com 416H
Lea County, NM

2. **BOP EQUIPMENT AND TESTING**

Rating Depth 10,600 TVD

Equipment

Chevron will have a minimum of a 5,000 psi rig stack for drill out below surface casing

Request Variance: Yes

Variance Request(s)

Chevron respectfully request to vary from the 43 CFR 3172 where it states: “(A full BOP Test) shall be performed: when initially installed and whenever any seal subject to test pressure is broken.” We propose to break test if able to finish the next hole section within 21 days of the previous full BOP test. No BOP components nor any break will ever surpass 21 days between testing. A break test will consist of a 250 psi low / ≥ 5,000 psi high for 10 min each test against the connection that was broken when skidding the rig. Upon the first nipple up of the pad a full BOP test will be performed. A full BOP test will be completed prior to drilling the production lateral sections unless the BOP connection was not broken prior to drilling that hole section (example: drilling straight from production into production liner hole section). A break test will only be performed on operations where BLM documentation states a 5M or less BOP can be utilized.

Chevron respectfully requests a variance to use a FMC Technologies UH-S Multibowl wellhead, which will be run through the rig floor on surface casing. BOPE will be nipped up and tested after cementing surface casing. Subsequent tests will be performed as needed, not to exceed 30 days. The field report from FMC Technologies and BOP test information will be provided in a subsequent report at the end of the well. Please see the attached wellhead schematic. An installation manual has been placed on file with the BLM office and remains unchanged from previous submittal. All tests performed by third party.

Chevron respectfully requests a variance from the 0.422" annular clearance requirement per 43 CFR3172 for the intermediate 1 (salt) section under the following condition:

1. Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing connection OD for the first 500' of overlap between both strings.

Testing Procedure

The stack will be tested as specified in the attached testing requirements. Batch drilling of the surface, production, and production liner will take place. A full BOP test will be performed per hole section, unless approval from BLM is received otherwise (see variance request). Flex choke hose will be used for all wells on the pad (see attached specs and variance). BOP test pressures and other documented tests may be recorded and documented via utilization of the Digital BOP Test Method in lieu of the standard test chart. In the event the digital system is unavailable, the standard test chart will be used.

3. **CASING PROGRAM**

- a. The proposed PRIMARY casing program will be as follows:

Purpose	Top (MD)	Top (TVD)	Bot (MD)	Bot (TVD)	Hole Size	Csg Size	Weight	Grade	Thread
Surface	0'	0'	1,030'	1,030'	17.5"	13.375"	54.5 #	J-55	BTC
Intermediate 1	0'	0'	5,313'	5,053'	12.25"	10.75"	40.5 #	J-55	BTC
Intermediate 2	0'	0'	10,087'	9,735'	9.875"	7.625"	29.7 #	P-110ICY	W441
Production Liner	9,887'	9,535'	18,836'	10,600'	6.75"	5."	13.0 #	P110-ICY	W421

Surface casing set below magenta dolomite and above top of salt (25 ft below los medianos)

- b. All casing strings will be new pipe.
- c. Casing design depths subject to revision based on directional drilling and geologic conditions encountered.
- Chevon will keep intermediate casing fluid filled at all times and while RIH. Chevron will check casing at a minimum of every 20 jts (~840'), and never to
- d. surpass ¼ of casing, while running intermediate casing in order to maintain collapse SF.

Casing String	Min SF Collapse	Min SF Burst	Min SF Axial (Joint)	Min SF Axial (Body)
Surface	2.34	1.80	16.19	15.20
Intermediate 1	Refer to attached casing design load analysis			
Intermediate 2	1.45	2.58	2.77	3.69
Production Liner	1.09	2.58	2.74	3.43

4. CEMENTING PROGRAM

Slurry	Type	Top	Bottom	Quantity	Yield	Density	%Excess	Volume	Additives
Surface Casing 13-3/8"				(sks)	(cuft/sk)	(ppg)		(cuft)	
Lead	Class C	0'	530'	91	2.29	12.8	25	208	Extender, Antifoam, Retarder, Viscosifier
Tail	Class C	530'	1,030'	663	1.35	14.8	25	894	Extender, Antifoam, Retarder, Viscosifier
Intermediate 1 Casing 10-3/4"									
Planned single stage cement job									
Lead	Class C	0'	4,313'	402	2.29	11.5	25	921	Extender, Antifoam, Retarder, Viscosifier
Tail	Class C	4,313'	5,313'	175	1.63	12.6	25	285	Extender, Antifoam, Retarder, Viscosifier
Contingency: Top Job									
1st Tail	Class C	0'	4,313'	949	1.35	14.8	25	1281	Extender, Antifoam, Retarder, Viscosifier
Intermediate 2 Casing 7-5/8"									
Planned single stage cement job									
Lead	Class C	0'	9,087'	641	3.52	10.5	25	2255	Extender, Antifoam, Retarder, Viscosifier
Tail	Class C	9,087'	10,087'	192	1.52	12.6	25	292	Extender, Antifoam, Retarder, Viscosifier
Contingency: Top Job									
1st Tail	Class C	0'	7,087'	1534	1.35	14.8	25	2071	Extender, Antifoam, Retarder, Viscosifier
Production Liner 5									
Lead	Class H	9,887'	18,836'	825	1.52	12.6	25	1255	Extender, Antifoam, Retarder, Viscosifier

Surface casing shall have at least one centralizer installed on each of the bottom three joints starting with the shoe joint.

5. MUD PROGRAM

Top	Bottom	Type	Min MW	Max MW at TD	Additional Characteristics
0'	1,030'	Spud Mud	8.3	9	
1,030'	5,313'	Brine	8.3	10.0	Saturated brine would be used through salt sections.
5,313'	10,087'	WBM/Brine	8.7	10.0	
10,087'	18,836'	OBM	9.0	12.0	Due to wellbore instability in the lateral, may exceed the MW window needed to maintain overburden stresses

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.

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.

6. TESTING, LOGGING, AND CORING

- a. **Production tests are not planned.**
- b. Logs run include: **Gamma Ray Log, Directional Survey**
Exemption to forego acquiring a neutron log approved by C. Armistead (BLM) on 03/11/2025
- c. **Coring Operations are not planned.**

7. ABNORMAL PRESSURES AND HYDROGEN SULFIDE

Anticipated BHP	6,615	psi
Anticipated BHT	185	°F
Anticipated abnormal pressures?	No	
Describe abnormal pressures	N/A - Pressure ramp begins in the bottom of the Third Bone Spring formation	
Contingency plan(s) description:	- Casing design accounts for pressure ramp - Mud weighting agents available on location to increase drilling fluid density - BOP, choke, and well control drills - BOP functioned and pressure tested	

Hydrogen sulfide gas is not anticipated: However the H2S Contingency plan is attached with this APD in the event that H2S is encountered

8. OTHER ITEMS

- 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. **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 43 CFR 3172
- d. **Offline cementing** will be employed on the hole sections that run a long string casing to surface. Offline cementing schematic below.