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 394551

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

1. Operator Name and Address	2. OGRID Number
CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	4323
	3. API Number 30-025-55160

4. Property Code	5. Property Name	6. Well No.
337733	ZN 34 3 STATE COM	618H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
G	34	23S	34E	G	2120	N	2564	E	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
N	3	24S	34E	N	25	S	2310	W	Lea

9. Pool Information

ANTELOPE RIDGE;WOLFCAMP	2220

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	3461
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	19650	Wolfcamp		11/21/2027
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	5080	553	0
Int2	9.875	7.625	29.7	10680	553	0
Prod	6.75	5.5	20	19650	630	10480

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	11646	TBD

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 ☒ and/or 19.15.14.9 (B) NMAC ☒, if applicable.

Signature:

OIL CONSERVATION DIVISION

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:	9/4/2025	Expiration Date: 9/4/2027
Date:	7/30/2025 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: ☒ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number 30-025-55160 ~~N/A~~	Pool Code 2220	Pool Name ANTELOPE RIDGE; WOLFCAMP
Property Code 337733 ~~N/A~~	Property Name ZN 34 3 STATE COM	Well Number 618H
OGRID No. 4323	Operator Name CHEVRON U.S.A. INC.	Ground Level Elevation 3461'
Surface Owner: ☐ State ☒ Fee ☐ Tribal ☐ Federal		Mineral Owner: ~~☒~~ State ☒ Fee ☐ Tribal ☐ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from North	Ft. from East	Latitude	Longitude	County
G	34	23S	34E	N/A	2120	2564	32.262504° N	103.457595° W	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from South	Ft. from West	Latitude	Longitude	County
N	3	24S	34E	N/A	25	2310	32.239387° N	103.458942° W	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
480	INFILL	PENDING- ZN 34 3 STATE COM 617H	NO	P
Order Numbers. N/A			Well setbacks are under Common Ownership: ☐Yes ☒No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from North	Ft. from West	Latitude	Longitude	County
F	34	23S	34E	N/A	2390	2310	32.261760° N	103.458968° W	LEA

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from South	Ft. from West	Latitude	Longitude	County
K	34	23S	34E	N/A	2614	2310	32.261005° N	103.458967° W	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from South	Ft. from West	Latitude	Longitude	County
N	3	24S	34E	N/A	100	2310	32.239593° N	103.458942° W	LEA

Unitized Area or Area of Uniform Interest N/A	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3461'

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.

Cindy Herrera-Murillo 7/28/2025

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.

Chad Harcrow

Signature and Seal of Professional Surveyor

CHAD HARCROW

Certificate Number	Date of Survey
17777	09/18/2024

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. 618H WELL	***PROPOSED KICK OFF POINT***	***PROPOSED FIRST TAKE POINT***
X=770,849.95	X=770,427.72	X=770,430.46
Y=460,277.69	Y=460,003.76	Y=459,728.84
LAT.32.262381°N	LAT.32.261638°N	LAT.32.260882°N
LONG.103.457119°W	LONG.103.458492°W	LONG.103.458491°W

PPP #1	***PPP #2***
X=770,443.32	X=770,456.43
Y=458,434.76	Y=457,115.73
LAT.32.257325°N	LAT.32.253699°N
LONG.103.458483°W	LONG.103.458476°W

PROPOSED LAST TAKE POINT	***PROPOSED BOTTOM HOLE LOCATION***
X=770,501.15	X=770,501.83
Y=451,939.58	Y=451,864.58
LAT.32.239470°N	LAT.32.239264°N
LONG.103.458467°W	LONG.103.458467°W

(NAD 83/2011 NM E)

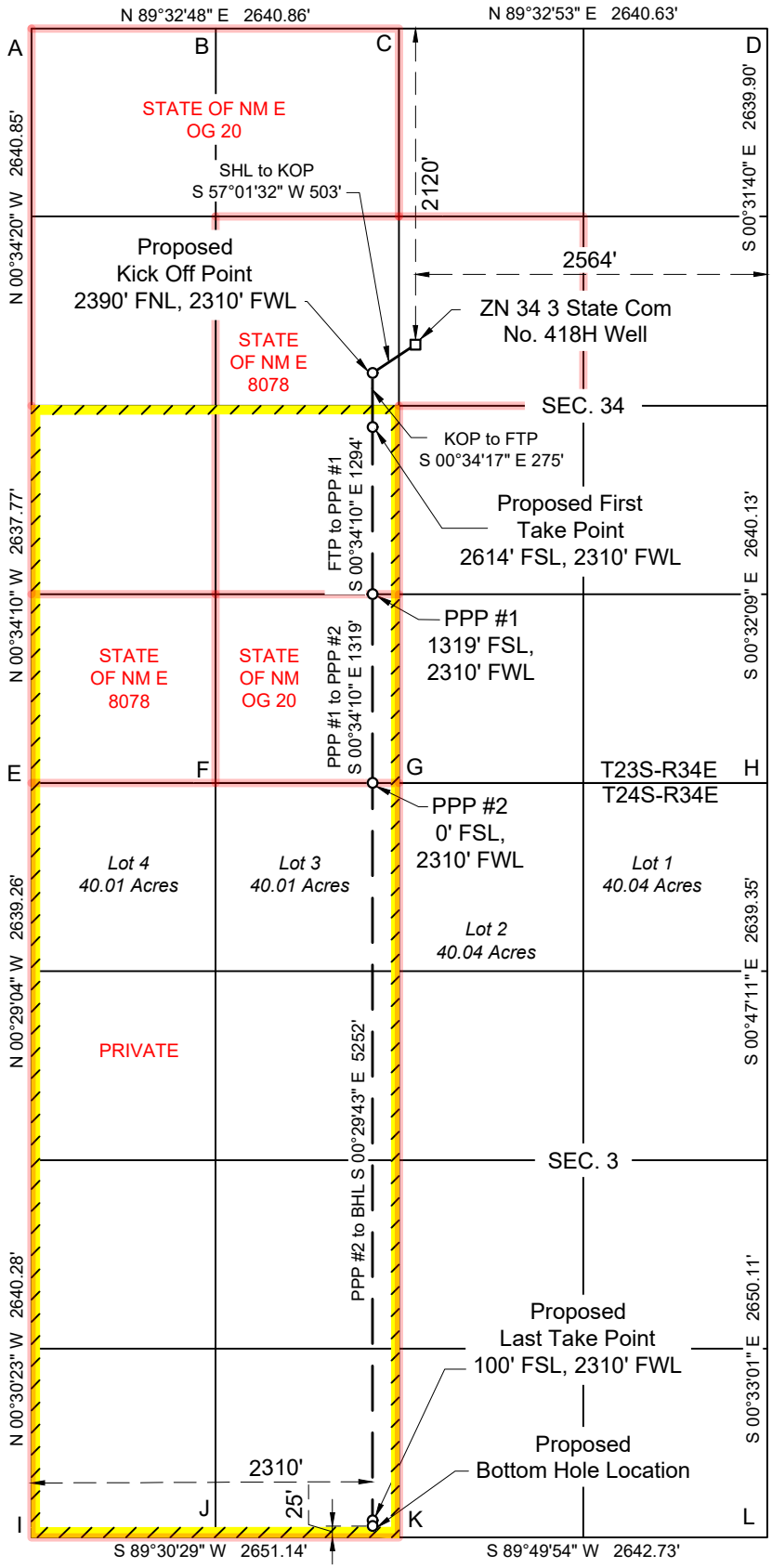
ZN 34 3 STATE COM NO. 618H WELL	***PROPOSED KICK OFF POINT***	***PROPOSED FIRST TAKE POINT***
X=812,034.18	X=811,611.96	X=811,614.71
Y=460,336.37	Y=460,062.43	Y=459,787.50
LAT.32.262504°N	LAT.32.261760°N	LAT.32.261005°N
LONG.103.457595°W	LONG.103.458968°W	LONG.103.458967°W

PPP #1	***PPP #2***
X=811,627.54	X=811,640.68
Y=458,493.39	Y=457,174.33
LAT.32.257447°N	LAT.32.253822°N
LONG.103.458959°W	LONG.103.458951°W

PROPOSED LAST TAKE POINT	***PROPOSED BOTTOM HOLE LOCATION***
X=811,685.66	X=811,686.34
Y=451,998.07	Y=451,923.08
LAT.32.239593°N	LAT.32.239387°N
LONG.103.458942°W	LONG.103.458942°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"



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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 394551

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
CHEVRON U S A INC [4323] 6301 Deauville Blvd Midland, TX 79706	30-025-55160
	Well: ZN 34 3 STATE COM #618H

OCD Reviewer	Condition
jeffrey.harrison	Administrative order required for non-standard location prior to production.
jeffrey.harrison	Administrative order required for non-standard spacing unit prior to production.
jeffrey.harrison	If using a pit for drilling and completion operations, operator must have an approved pit form prior to spudding the well. If a closed loop is to be utilized, please submit a form C-103A change of plans stating such.
jeffrey.harrison	Surface casing shall be set a minimum of 25' into the Rustler Anhydrite, above the salt, and below usable fresh water and cemented to the surface. If salt is encountered set casing at least 25 ft. above the salt.
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.
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.
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.

APD Variance Request

BOP Pressure Test Recording and Documentation

Chevron proposes a digital BOP test method in lieu of the standard test chart. BOP test pressures and other documented tests will be recorded and documented via utilization of Digital BOP Testing equipment and software. In the event the digital test system is unavailable, the standard test chart will be used.

Digital BOP testing provides an improved level of resolution and assurance into BOP pressure testing over conventional analog pressure charts. The BOP pressure testing software meets the intent of the onshore orders and CFR. The chart below provides the acceptance criteria programmed into the software.

Test	Test Time	Test Pressure Criteria	Additional Criteria
Low Pressure Test	10 min	3 psi/min decline	No visible leaks. Pressure shall not decrease below the intended test pressure.
High Pressure Test	10 min	10 psi/min decline	No visible leaks. Pressure shall not decrease below the intended test pressure.

Pressure transducers are calibrated to the manufacturers' specification. Each testing report will show information on the transducers including manufacturer, model, serial, and calibration date.

Digital testing software will be used by knowledgeable personnel for BOP pressure testing. The software will be operated per manufacturer requirements and will not be used beyond the explicitly intended purpose.

H_2S Preparedness and Contingency Plan Summary

Training

MCBU Drilling and Completions H_2S 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_2S.

Awareness Level

Employees and visitors to MCBU Drilling and Completions locations that have known concentrations of H_2S, who are not required to perform work in H_2S areas, will be provided with an awareness level of H_2S training prior to entering any H_2S areas. At a minimum, awareness level training will include:

1. Physical and chemical properties of H_2S
2. Health hazards of H_2S
3. Personal protective equipment
4. Information regarding potential sources of H_2S
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_2S Training

Employees and contractors required to work in areas that may contain H_2S will be provided with Advanced Level H_2S training prior to initial assignment. In addition to the Awareness Level requirements, Advanced Level H_2S training will include:

1. H_2S safe work practice procedures.
2. Emergency contingency plan procedures.
3. Methods to detect the presence or release of H_2S (e.g., alarms, monitoring equipment), including hands-on training with direct reading and personal monitoring H_2S equipment.
4. Basic overview of respiratory protective equipment suitable for use in H_2S 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_2S training.
6. Proficiency examination covering all course material.

Advanced H_2S training courses will be instructed by personnel who have successfully completed an appropriate H_2S train-the-trainer development course (ANSI/ASSE Z390.1-2006) or who possess significant past experience through educational or work-related background.

H_2S Preparedness and Contingency Plan Summary

H_2S Training Certification

All employees and visitors will be issued an H_2S training certification card (or certificate) upon successful completion of the appropriate H_2S training course. Personnel working in an H_2S environment will carry a current H_2S 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 up-wind 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_2S 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_2S Detection and Monitoring System

a) H_2S 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_2S 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

Agency	Telephone Number
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

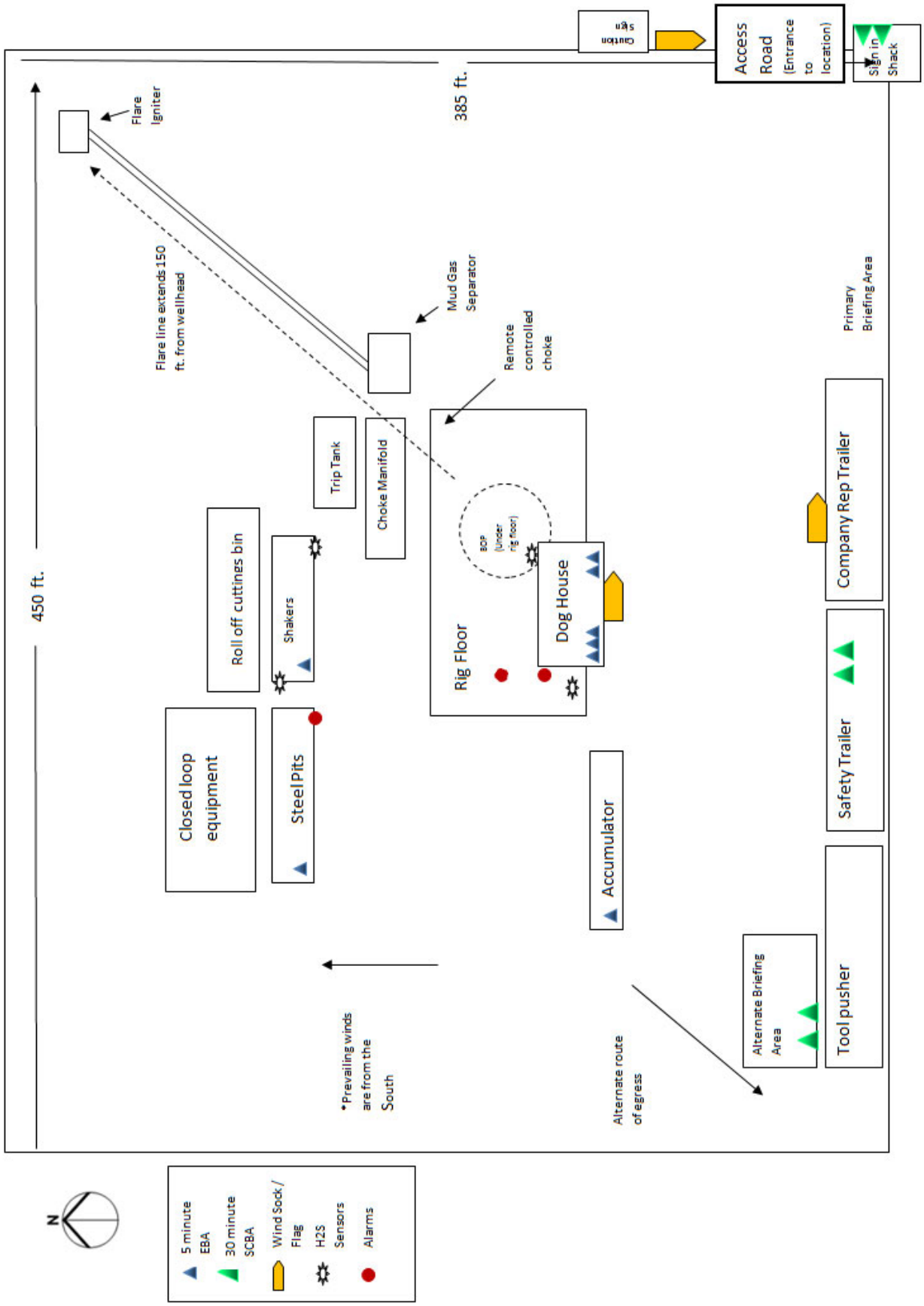
H_2S Preparedness and Contingency Plan Summary

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		

H_2S Preparedness and Contingency Plan Summary



ZN 34 3 State Com No. 618H R0 mdv 22Jul25 Proposal Geodetic Report

Def Plan

Report Date:	July 24, 2025 - 09:14 PM (UTC 0)	**Survey / DLS Computation:**	Minimum Curvature / Lubinski
Client:	Chevron	**Vertical Section Azimuth:**	179.480 °(GRID North)
Field:	NM, Lea County (NAD 27 EZ)	**Vertical Section Origin:**	0.000 ft, 0.000 ft
Structure / Slot:	Chevron Zion Pad 11 / 618H	**TVD Reference Datum:**	RKB
Well:	ZN 34 3 State Com No. 618H	**TVD Reference Elevation:**	3489.000 ft above MSL
Borehole:	ZN 34 3 State Com No. 618H	**Seabed / Ground Elevation:**	3461.000 ft above MSL
UBHI / API#:	Unknown / Unknown	**Magnetic Declination:**	6.088°
Survey Name:	ZN 34 3 State Com No. 618H R0 mdv 22Jul25	**Total Gravity Field Strength:**	998.4609mgn (9.80665 Based)
Survey Date:	July 24, 2025	**Gravity Model:**	GARM
Tort / AHD / DDI / ERD Ratio:	100.088 ° / 9005.516 ft / 6.182 / 0.773	**Total Magnetic Field Strength:**	47204.409 nT
Coordinate Reference System:	NAD27 New Mexico State Plane, Eastern Zone, US Feet	**Magnetic Dip Angle:**	59.719°
Location Lat / Long:	32°15'44.57190"N , 103°27'25.62951"W	**Declination Date:**	July 23, 2025
Location Grid N/E Y/X:	N 460277.690 ftUS , E 770849.950 ftUS	**Magnetic Declination Model:**	HDGM 2025
CRS Grid Convergence Angle:	0.468°	**North Reference:**	Grid North
Grid Scale Factor:	0.99999311(Applied)	**Grid Convergence Used:**	0.468°
Version / Patch:	2024.5.0.1	**Total Corr Mag North->Grid North:**	5.62°
		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	-3,489.00	0.00	0.00	0.00		460,277.69	770,849.95	32.26238108	-103.45711931
	100.00	0.00	288.48	100.00	-3,389.00	0.00	0.00	0.00	0.00	460,277.69	770,849.95	32.26238108	-103.45711931
	200.00	0.00	288.48	200.00	-3,289.00	0.00	0.00	0.00	0.00	460,277.69	770,849.95	32.26238108	-103.45711931
	300.00	0.00	288.48	300.00	-3,189.00	0.00	0.00	0.00	0.00	460,277.69	770,849.95	32.26238108	-103.45711931
	400.00	0.00	288.48	400.00	-3,089.00	0.00	0.00	0.00	0.00	460,277.69	770,849.95	32.26238108	-103.45711931
	500.00	0.00	288.48	500.00	-2,989.00	0.00	0.00	0.00	0.00	460,277.69	770,849.95	32.26238108	-103.45711931
	600.00	0.00	288.48	600.00	-2,889.00	0.00	0.00	0.00	0.00	460,277.69	770,849.95	32.26238108	-103.45711931
	700.00	0.00	288.48	700.00	-2,789.00	0.00	0.00	0.00	0.00	460,277.69	770,849.95	32.26238108	-103.45711931
	800.00	0.00	288.48	800.00	-2,689.00	0.00	0.00	0.00	0.00	460,277.69	770,849.95	32.26238108	-103.45711931
	900.00	0.00	288.48	900.00	-2,589.00	0.00	0.00	0.00	0.00	460,277.69	770,849.95	32.26238108	-103.45711931
Rustler (RSLR)	947.00	0.00	288.48	947.00	-2,542.00	0.00	0.00	0.00	0.00	460,277.69	770,849.95	32.26238108	-103.45711931
	1,000.00	0.00	288.48	1,000.00	-2,489.00	0.00	0.00	0.00	0.00	460,277.69	770,849.95	32.26238108	-103.45711931
	1,100.00	0.00	288.48	1,100.00	-2,389.00	0.00	0.00	0.00	0.00	460,277.69	770,849.95	32.26238108	-103.45711931
	1,200.00	0.00	288.48	1,200.00	-2,289.00	0.00	0.00	0.00	0.00	460,277.69	770,849.95	32.26238108	-103.45711931
	1,300.00	0.00	288.48	1,300.00	-2,189.00	0.00	0.00	0.00	0.00	460,277.69	770,849.95	32.26238108	-103.45711931
Saldo (SLDO)	1,312.00	0.00	288.48	1,312.00	-2,177.00	0.00	0.00	0.00	0.00	460,277.69	770,849.95	32.26238108	-103.45711931
Build 1.5°/100ft	1,400.00	0.00	288.48	1,400.00	-2,089.00	0.00	0.00	0.00	0.00	460,277.69	770,849.95	32.26238108	-103.45711931
	1,500.00	1.50	288.48	1,499.99	-1,989.01	-0.43	0.41	-1.24	1.50	460,278.10	770,848.71	32.26238225	-103.45712331
	1,600.00	3.00	288.48	1,599.91	-1,889.09	-1.70	1.66	-4.96	1.50	460,279.35	770,844.99	32.26238576	-103.45713533
	1,700.00	4.50	288.48	1,699.69	-1,789.31	-3.83	3.73	-11.17	1.50	460,281.42	770,838.78	32.26239159	-103.45715534
Hold	1,800.00	6.00	288.48	1,799.26	-1,689.74	-6.81	6.63	-19.85	1.50	460,284.32	770,830.10	32.26239976	-103.45718333
	1,800.00	6.00	288.48	1,799.27	-1,689.73	-6.81	6.63	-19.85	0.00	460,284.32	770,830.10	32.26239976	-103.45718333
	1,900.00	6.00	288.48	1,898.72	-1,590.28	-10.21	9.94	-29.76	0.00	460,287.63	770,820.19	32.26240908	-103.45721531
	2,000.00	6.00	288.48	1,998.17	-1,490.83	-13.62	13.26	-39.67	0.00	460,290.95	770,810.28	32.26241841	-103.45724729
	2,100.00	6.00	288.48	2,097.63	-1,391.37	-17.02	16.57	-49.59	0.00	460,294.26	770,800.36	32.26242774	-103.45727927
	2,200.00	6.00	288.48	2,197.08	-1,291.92	-20.42	19.88	-59.50	0.00	460,297.57	770,790.45	32.26243707	-103.45731125
	2,300.00	6.00	288.48	2,296.53	-1,192.47	-23.82	23.20	-69.42	0.00	460,300.88	770,780.53	32.26244640	-103.45734324
	2,400.00	6.00	288.48	2,395.98	-1,093.02	-27.23	26.51	-79.33	0.00	460,304.20	770,770.62	32.26245572	-103.45737522
	2,500.00	6.00	288.48	2,495.43	-993.57	-30.63	29.82	-89.24	0.00	460,307.51	770,760.71	32.26246505	-103.45740720
	2,600.00	6.00	288.48	2,594.89	-894.11	-34.03	33.13	-99.16	0.00	460,310.82	770,750.79	32.26247438	-103.45743918
	2,700.00	6.00	288.48	2,694.34	-794.66	-37.43	36.45	-109.07	0.00	460,314.14	770,740.88	32.26248371	-103.45747116
	2,800.00	6.00	288.48	2,793.79	-695.21	-40.84	39.76	-118.99	0.00	460,317.45	770,730.97	32.26249303	-103.45750314
	2,900.00	6.00	288.48	2,893.24	-595.76	-44.24	43.07	-128.90	0.00	460,320.76	770,721.05	32.26250236	-103.45753512
	3,000.00	6.00	288.48	2,992.70	-496.30	-47.64	46.38	-138.81	0.00	460,324.07	770,711.14	32.26251169	-103.45756710
	3,100.00	6.00	288.48	3,092.15	-396.85	-51.04	49.70	-148.73	0.00	460,327.39	770,701.22	32.26252102	-103.45759908
	3,200.00	6.00	288.48	3,191.60	-297.40	-54.45	53.01	-158.64	0.00	460,330.70	770,691.31	32.26253035	-103.45763107
	3,300.00	6.00	288.48	3,291.05	-197.95	-57.85	56.32	-168.55	0.00	460,334.01	770,681.40	32.26253967	-103.45766305
	3,400.00	6.00	288.48	3,390.50	-98.50	-61.25	59.63	-178.47	0.00	460,337.32	770,671.48	32.26254900	-103.45769503
Castile (CSTL)	3,468.87	6.00	288.48	3,459.00	-30.00	-63.60	61.92	-185.30	0.00	460,339.61	770,664.66	32.26255542	-103.45771705
	3,500.00	6.00	288.48	3,489.96	0.96	-64.65	62.95	-188.38	0.00	460,340.64	770,661.57	32.26255833	-103.45772701
	3,600.00	6.00	288.48	3,589.41	100.41	-68.06	66.26	-198.30	0.00	460,343.95	770,651.66	32.26256766	-103.45775899
	3,700.00	6.00	288.48	3,688.86	199.86	-71.46	69.57	-208.21	0.00	460,347.26	770,641.74	32.26257698	-103.45779097
	3,800.00	6.00	288.48	3,788.31	299.31	-74.86	72.89	-218.12	0.00	460,350.57	770,631.83	32.26258631	-103.45782295
	3,900.00	6.00	288.48	3,887.77	398.77	-78.26	76.20	-228.04	0.00	460,353.89	770,621.91	32.26259564	-103.45785493
	4,000.00	6.00	288.48	3,987.22	498.22	-81.67	79.51	-237.95	0.00	460,357.20	770,612.00	32.26260497	-103.45788691
	4,100.00	6.00	288.48	4,086.67	597.67	-85.07	82.82	-247.87	0.00	460,360.51	770,602.09	32.26261429	-103.45791890
	4,200.00	6.00	288.48	4,186.12	697.12	-88.47	86.14	-257.78	0.00	460,363.83	770,592.17	32.26262362	-103.45795088
	4,300.00	6.00	288.48	4,285.57	796.57	-91.87	89.45	-267.69	0.00	460,367.14	770,582.26	32.26263295	-103.45798286
	4,400.00	6.00	288.48	4,385.03	896.03	-95.28	92.76	-277.61	0.00	460,370.45	770,572.34	32.26264228	-103.45801484
	4,500.00	6.00	288.48	4,484.48	995.48	-98.68	96.07	-287.52	0.00	460,373.76	770,562.43	32.26265160	-103.45804682
	4,600.00	6.00	288.48	4,583.93	1,094.93	-102.08	99.39	-297.44	0.00	460,377.08	770,552.52	32.26266093	-103.45807880
	4,700.00	6.00	288.48	4,683.38	1,194.38	-105.48	102.70	-307.35	0.00	460,380.39	770,542.60	32.26267026	-103.45811078
	4,800.00	6.00	288.48	4,782.84	1,293.84	-108.89	106.01	-317.26	0.00	460,383.70	770,532.69	32.26267959	-103.45814276
	4,900.00	6.00	288.48	4,882.29	1,393.29	-112.29	109.33	-327.18	0.00	460,387.01	770,522.78	32.26268892	-103.45817475
	5,000.00	6.00	288.48	4,981.74	1,492.74	-115.69	112.64	-337.09	0.00	460,390.33	770,512.86	32.26269824	-103.45820673
Lamar (LMAR)	5,099.81	6.00	288.48	5,081.00	1,592.00	-119.09	115.94	-346.99	0.00	460,393.63	770,502.97	32.26270755	-103.45823865
	5,100.00	6.00	288.48	5,081.19	1,592.19	-119.09	115.95	-347.00	0.00	460,393.64	770,502.95	32.26270757	-103.45823871
Bell Canyon (BEL)	5,150.08	6.00	288.48	5,131.00	1,642.00	-120.80	117.61	-351.97	0.00	460,395.30	770,497.98	32.26271224	-103.45825472
	5,200.00	6.00	288.48	5,180.64	1,691.64	-122.50	119.26	-356.92	0.00	460,396.95	770,493.03	32.26271690	-103.45827069
	5,300.00	6.00	288.48	5,280.10	1,791.10	-125.90	122.58	-366.83	0.00	460,400.26	770,483.12	32.26272623	-103.45830267
	5,400.00	6.00	288.48	5,379.55	1,890.55	-129.30	125.89	-376.75	0.00	460,403.58	770,473.21	32.26273555	-103.45833465
	5,500.00	6.00	288.48	5,479.00	1,990.00	-132.71	129.20	-386.66	0.00	460,406.89	770,463.29	32.26274488	-103.45836663
	5,600.00	6.00	288.48	5,578.45	2,089.45	-136.11	132.51	-396.57	0.00	460,410.20	770,453.38	32.26275421	-103.45839861
	5,700.00	6.00	288.48	5,677.91	2,188.91	-139.51	135.83	-406.49	0.00	460,413.52	770,443.47	32.26276354	-103.45843060
Drop 1.5°/100ft	5,700.06	6.00	288.48	5,677.97	2,188.97	-139.51	135.83	-406.49	0.00	460,413.52	770,443.46	32.26276354	-103.45843061
	5,800.00	4.50	288.48	5,777.48	2,288.48	-142.49	138.73	-415.17	1.50	460,416.42	770,434.79	32.26277170	-103.45845859
	5,900.00	3.00	288.48	5,877.27	2,388.27	-144.62	140.80	-421.37	1.50	460,418.49	770,428.58	32.26277754	-103.45847861
Cherry Canyon (CHR)	5,971.80	1.92	288.48	5,949.00	2,460.00	-145.62	141.78	-424.30	1.50	460,419.47	770,425.66	32.26278029	-103.45848805
	6,000.00	1.50	288.48	5,977.19	2,488.19	-145.90	142.04	-425.10	1.50	460,419.73	770,424.86	32.26278104	-103.45849063
	6,100.00	0.00	288.48	6,077.17	2,588.17	-146.32	142.46	-426.34	1.50	460,420.15	770,423.61	32.26278221	-103.45849464
Hold Vertical	6,100.06	0.00	288.48	6,077.23	2,588.23	-146.32	142.46	-426.34	1.50	460,420.15	770,423.61	32.26278221	-103.45849464
	6,200.00	0.00	288.48	6,177.17	2,688.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	6,300.00	0.00	288.48	6,277.17	2,788.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	6,400.00	0.00	288.48	6,377.17	2,888.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	6,500.00	0.00	288.48	6,477.17	2,988.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	6,600.00	0.00	288.48	6,577.17	3,088.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	6,700.00	0.00	288.48	6,677.17	3,188.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	6,800.00	0.00	288.48	6,777.17	3,288.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	6,900.00	0.00	288.48	6,877.17	3,388.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	7,000.00	0.00	288.48	6,977.17	3,488.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	7,100.00	0.00	288.48	7,077.17	3,588.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	7,200.00	0.00	288.48	7,177.17	3,688.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	7,300.00	0.00	288.48	7,277.17	3,788.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	7,400.00	0.00	288.48	7,377.17	3,888.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
Brushy Canyon (BCN)	7,419.83	0.00	288.48	7,397.00	3,908.00	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	7,500.00	0.00	288.48	7,477.17	3,988.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	7,600.00	0.00	288.48	7,577.17	4,088.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	7,700.00	0.00	288.48	7,677.17	4,188.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	7,800.00	0.00	288.48	7,777.17	4,288.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	7,900.00	0.00	288.48	7,877.17	4,388.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	8,000.00	0.00	288.48	7,977.17	4,488.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	8,100.00	0.00	288.48	8,077.17	4,588.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	8,200.00	0.00	288.48	8,177.17	4,688.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	8,300.00	0.00	288.48	8,277.17	4,788.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	8,400.00	0.00	288.48	8,377.17	4,888.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	8,500.00	0.00	288.48	8,477.17	4,988.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	8,600.00	0.00	288.48	8,577.17	5,088.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
Bone Spring Lime (BSL)	8,613.83	0.00	288.48	8,591.00	5,102.00	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	8,700.00	0.00	288.48	8,677.17	5,188.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	8,800.00	0.00	288.48	8,777.17	5,288.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
Upper Avalon (AVU)	8,804.91	0.00	288.48	8,782.08	5,293.08	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	8,900.00	0.00	288.48	8,877.17	5,388.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	9,000.00	0.00	288.48	8,977.17	5,488.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
Lower Avalon (AVL)	9,055.83	0.00	288.48	9,033.00	5,544.00	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	9,100.00	0.00	288.48	9,077.17	5,588.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	9,200.00	0.00	288.48	9,177.17	5,688.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
	9,300.00	0.00	288.48	9,277.17	5,788.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	9,400.00	0.00	288.48	9,377.17	5,888.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	9,500.00	0.00	288.48	9,477.17	5,988.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	9,600.00	0.00	288.48	9,577.17	6,088.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	9,700.00	0.00	288.48	9,677.17	6,188.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
First Bone Spring Upper (FBU)	9,702.83	0.00	288.48	9,680.00	6,191.00	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	9,800.00	0.00	288.48	9,777.17	6,288.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	9,900.00	0.00	288.48	9,877.17	6,388.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
First Bone Spring Lower (FBL)	9,937.83	0.00	288.48	9,915.00	6,426.00	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	10,000.00	0.00	288.48	9,977.17	6,488.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	10,100.00	0.00	288.48	10,077.17	6,588.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	10,200.00	0.00	288.48	10,177.17	6,688.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
Second Bone Spring Upper (SBU)	10,219.83	0.00	288.48	10,197.00	6,708.00	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	10,300.00	0.00	288.48	10,277.17	6,788.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	10,400.00	0.00	288.48	10,377.17	6,888.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	10,500.00	0.00	288.48	10,477.17	6,988.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	10,600.00	0.00	288.48	10,577.17	7,088.17	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
Build 8°/100ft	10,680.06	0.00	288.48	10,657.23	7,168.23	-146.32	142.46	-426.34	0.00	460,420.15	770,423.61	32.26278221	-103.45849464
	10,700.00	1.60	179.43	10,677.17	7,188.17	-146.05	142.18	-426.34	8.00	460,419.87	770,423.62	32.26278145	-103.45849463
Second Bone Spring Lower (SBL)	10,701.19	1.69	179.43	10,678.36	7,189.36	-146.01	142.15	-426.34	8.00	460,419.84	770,423.62	32.26278136	-103.45849463
	10,800.00	9.60	179.43	10,776.61	7,287.61	-136.30	132.44	-426.24	8.00	460,410.13	770,423.71	32.26275467	-103.45849458
	10,900.00	17.60	179.43	10,873.73	7,384.73	-112.82	108.95	-426.01	8.00	460,386.64	770,423.95	32.26269011	-103.45849444
	11,000.00	25.60	179.43	10,966.64	7,477.64	-76.04	72.18	-425.64	8.00	460,349.87	770,424.31	32.26258902	-103.45849423
	11,100.00	33.60	179.43	11,053.52	7,564.52	-26.69	22.84	-425.15	8.00	460,300.53	770,424.80	32.26245338	-103.45849395
	11,200.00	41.60	179.43	11,132.69	7,643.69	34.27	-38.12	-424.55	8.00	460,239.57	770,425.41	32.26228582	-103.45849360
Third Bone Spring (TBS)	11,282.42	48.19	179.43	11,191.05	7,702.05	92.41	-96.26	-423.97	8.00	460,181.43	770,425.98	32.26212601	-103.45849326
	11,300.00	49.60	179.43	11,202.61	7,713.61	105.65	-109.50	-423.84	8.00	460,168.19	770,426.11	32.26208961	-103.45849319
	11,400.00	57.60	179.43	11,261.91	7,772.91	186.07	-189.92	-423.04	8.00	460,087.78	770,426.91	32.26186856	-103.45849273
Wolfcamp A (WCA)	11,454.56	61.96	179.43	11,289.36	7,800.36	233.20	-237.04	-422.57	8.00	460,040.65	770,427.38	32.26173901	-103.45849246
	11,500.00	65.60	179.43	11,309.44	7,820.44	273.96	-277.80	-422.17	8.00	459,999.89	770,427.79	32.26162698	-103.45849222
	11,600.00	73.60	179.43	11,344.27	7,855.27	367.61	-371.45	-421.24	8.00	459,906.25	770,428.71	32.26136956	-103.45849169
	11,700.00	81.60	179.43	11,365.74	7,876.74	465.19	-469.03	-420.27	8.00	459,808.67	770,429.68	32.26110132	-103.45849112
Landing Point	11,780.22	88.01	179.43	11,373.00	7,884.00	545.04	-548.87	-419.48	8.00	459,728.83	770,430.48	32.26088185	-103.45849067
FTP Cross	11,780.32	88.01	179.43	11,373.00	7,884.00	545.14	-548.97	-419.48	0.00	459,728.72	770,430.48	32.26088157	-103.45849067
	11,800.00	88.01	179.43	11,373.68	7,884.68	564.81	-568.64	-419.28	0.00	459,709.06	770,430.67	32.26082750	-103.45849055
	11,900.00	88.01	179.43	11,377.15	7,888.15	664.75	-668.57	-418.29	0.00	459,609.12	770,431.66	32.26055280	-103.45848998
	12,000.00	88.01	179.43	11,380.62	7,891.62	764.69	-768.51	-417.30	0.00	459,509.19	770,432.66	32.26027809	-103.45848941
	12,100.00	88.01	179.43	11,384.09	7,895.09	864.63	-868.44	-416.31	0.00	459,409.25	770,433.65	32.26000338	-103.45848883
	12,200.00	88.01	179.43	11,387.55	7,898.55	964.57	-968.38	-415.31	0.00	459,309.32	770,434.64	32.25972868	-103.45848826
	12,300.00	88.01	179.43	11,391.02	7,902.02	1,064.51	-1,068.31	-414.32	0.00	459,209.39	770,435.63	32.25945397	-103.45848768
	12,400.00	88.01	179.43	11,394.49	7,905.49	1,164.45	-1,168.25	-413.33	0.00	459,109.45	770,436.62	32.25917926	-103.45848711
	12,500.00	88.01	179.43	11,397.96	7,908.96	1,264.39	-1,268.18	-412.34	0.00	459,009.52	770,437.62	32.25890456	-103.45848654
	12,600.00	88.01	179.43	11,401.42	7,912.42	1,364.33	-1,368.12	-411.35	0.00	458,909.58	770,438.61	32.25862985	-103.45848596
	12,700.00	88.01	179.43	11,404.89	7,915.89	1,464.27	-1,468.05	-410.35	0.00	458,809.65	770,439.60	32.25835514	-103.45848539
	12,800.00	88.01	179.43	11,408.36	7,919.36	1,564.21	-1,567.99	-409.36	0.00	458,709.72	770,440.59	32.25808044	-103.45848481
	12,900.00	88.01	179.43	11,411.83	7,922.83	1,664.15	-1,667.92	-408.37	0.00	458,609.78	770,441.58	32.25780573	-103.45848424
	13,000.00	88.01	179.43	11,415.29	7,926.29	1,764.09	-1,767.86	-407.38	0.00	458,509.85	770,442.57	32.25753102	-103.45848367
PPP1, Turn 2°/100ft	13,075.14	88.01	179.43	11,417.90	7,928.90	1,839.18	-1,842.95	-406.63	0.00	458,434.76	770,443.32	32.25732462	-103.45848324
Hold	13,075.21	88.01	179.43	11,417.90	7,928.90	1,839.26	-1,843.02	-406.63	2.00	458,434.68	770,443.32	32.25732441	-103.45848324
	13,100.00	88.01	179.43	11,418.76	7,929.76	1,864.03	-1,867.79	-406.39	0.00	458,409.91	770,443.57	32.25725632	-103.45848309
	13,200.00	88.01	179.43	11,422.23	7,933.23	1,963.97	-1,967.73	-405.39	0.00	458,309.98	770,444.56	32.25698161	-103.45848251
	13,300.00	88.01	179.43	11,425.70	7,936.70	2,063.91	-2,067.66	-404.40	0.00	458,210.05	770,445.55	32.25670690	-103.45848194
	13,400.00	88.01	179.43	11,429.17	7,940.17	2,163.85	-2,167.60	-403.41	0.00	458,110.11	770,446.55	32.25643220	-103.45848136
	13,500.00	88.01	179.43	11,432.64	7,943.64	2,263.79	-2,267.53	-402.41	0.00	458,010.18	770,447.54	32.25615749	-103.45848078
	13,600.00	88.01	179.43	11,436.11	7,947.11	2,363.73	-2,367.47	-401.42	0.00	457,910.24	770,448.53	32.25588278	-103.45848020
	13,700.00	88.01	179.43	11,439.58	7,950.58	2,463.67	-2,467.40	-400.43	0.00	457,810.31	770,449.53	32.25560808	-103.45847962
	13,800.00	88.01	179.43	11,443.05	7,954.05	2,563.61	-2,567.34	-399.43	0.00	457,710.38	770,450.52	32.25533337	-103.45847904
	13,900.00	88.01	179.43	11,446.52	7,957.52	2,663.55	-2,667.27	-398.44	0.00	457,610.44	770,451.51	32.25505866	-103.45847847
	14,000.00	88.01	179.43	11,449.99	7,960.99	2,763.49	-2,767.21	-397.45	0.00	457,510.51	770,452.51	32.25478396	-103.45847789
	14,100.00	88.01	179.43	11,453.46	7,964.46	2,863.43	-2,867.14	-396.45	0.00	457,410.57	770,453.50	32.25450925	-103.45847731
	14,200.00	88.01	179.43	11,456.93	7,967.93	2,963.37	-2,967.08	-395.46	0.00	457,310.64	770,454.49	32.25423454	-103.45847673
	14,300.00	88.01	179.43	11,460.40	7,971.40	3,063.31	-3,067.01	-394.47	0.00	457,210.71	770,455.49	32.25395984	-103.45847615
PPP2, Turn 2°/100ft	14,395.04	88.01	179.43	11,463.70	7,974.70	3,158.29	-3,161.99	-393.52	0.00	457,115.73	770,456.43	32.25369876	-103.45847560
Hold to TD	14,398.74	88.01	179.50	11,463.83	7,974.83	3,161.99	-3,165.69	-393.49	2.00	457,112.03	770,456.46	32.25368858	-103.45847559
	14,400.00	88.01	179.50	11,463.87	7,974.87	3,163.25	-3,166.95	-393.48	0.00	457,110.77	770,456.48	32.25368513	-103.45847559
	14,500.00	88.01	179.50	11,467.34	7,978.34	3,263.18	-3,266.88	-392.61	0.00	457,010.84	770,457.34	32.25341042	-103.45847543
	14,600.00	88.01	179.50	11,470.81	7,981.81	3,363.12	-3,366.82	-391.75	0.00	456,910.90	770,458.20	32.25313571	-103.45847527
	14,700.00	88.01	179.50	11,474.28	7,985.28	3,463.06	-3,466.75	-390.89	0.00	456,810.97	770,459.07	32.25286101	-103.45847510
	14,800.00	88.01	179.50	11,477.75	7,988.75	3,563.00	-3,566.69	-390.02	0.00	456,711.03	770,459.93	32.25258630	-103.45847494
	14,900.00	88.01	179.50	11,481.22	7,992.22	3,662.94	-3,666.63	-389.16	0.00	456,611.10	770,460.80	32.25231159	-103.45847478
	15,000.00	88.01	179.50	11,484.69	7,995.69	3,762.88	-3,766.56	-388.29	0.00	456,511.16	770,461.66	32.25203688	-103.45847462
	15,100.00	88.01	179.50	11,488.16	7,999.16	3,862.82	-3,866.50	-387.43	0.00	456,411.23	770,462.52	32.25176218	-103.45847446
	15,200.00	88.01	179.50	11,491.63	8,002.63	3,962.76	-3,966.44	-386.57	0.00	456,311.29	770,463.39	32.25148747	-103.45847430
	15,300.00	88.01	179.50	11,495.10	8,006.10	4,062.70	-4,066.37	-385.70	0.00	456,211.35	770,464.25	32.25121276	-103.45847414
	15,400.00	88.01	179.50	11,498.57	8,009.57	4,162.64	-4,166.31	-384.84	0.00	456,111.42	770,465.11	32.25093806	-103.45847398
	15,500.00	88.01	179.50	11,502.04	8,013.04	4,262.58	-4,266.24	-383.97	0.00	456,011.48	770,465.98	32.25066335	-103.45847382
	15,600.00	88.01	179.50	11,505.50	8,016.50	4,362.52	-4,366.18	-383.11	0.00	455,911.55	770,466.84	32.25038864	-103.45847366
	15,700.00	88.01	179.50	11,508.97	8,019.97	4,462.46	-4,466.12	-382.25	0.00	455,811.61	770,467.71	32.25011393	-103.45847350
	15,800.00	88.01	179.50	11,512.44	8,023.44	4,562.40	-4,566.05	-381.38	0.00	455,711.68	770,468.57	32.24983923	-103.45847334
	15,900.00	88.01	179.50	11,515.91	8,026.91	4,662.34	-4,665.99	-380.52	0.00	455,611.74	770,469.43	32.24956452	-103.45847318
	16,000.00	88.01	179.50	11,519.38	8,030.38	4,762.28	-4,765.92	-379.65	0.00	455,511.81	770,470.30	32.24928981	-103.45847302
	16,100.00	88.01	179.50	11,522.85	8,033.85	4,862.22	-4,865.86	-378.79	0.00	455,411.87	770,471.16	32.24901510	-103.45847286
	16,200.00	88.01	179.50	11,526.32	8,037.32	4,962.16	-4,965.80	-377.93	0.00	455,311.94	770,472.03	32.24874040	-103.45847270
	16,300.00	88.01	179.50	11,529.79	8,040.79	5,062.10	-5,065.73	-377.06	0.00	455,212.00	770,472.89	32.24846569	-103.45847254
	16,400.00	88.01	179.50	11,533.26	8,044.26	5,162.04	-5,165.67	-376.20	0.00	455,112.07	770,473.75	32.24819098	-103.45847238
	16,500.00	88.01	179.50	11,536.73	8,047.73	5,261.98	-5,265.60	-375.33	0.00	455,012.13	770,474.62	32.24791627	-103.45847222
	16,600.00	88.01	179.50	11,540.20	8,051.20	5,361.92	-5,365.54	-374.47	0.00	454,912.20	770,475.48	32.24764157	-103.45847205
	16,700.00	88.01	179.50	11,543.67	8,054.67	5,461.86	-5,465.48	-373.61	0.00	454,812.26	770,476.35	32.24736686	-103.45847189
	16,800.00	88.01	179.50	11,547.14	8,058.14	5,561.80	-5,565.41	-372.74	0.00	454,712.33	770,477.21	32.24709215	-103.45847173
	16,900.00	88.01	179.50	11,550.61	8,061.61	5,661.74	-5,665.35	-371.88	0.00	454,612.39	770,478.07	32.24681744	-103.45847157
	17,000.00	88.01	179.50	11,554.08	8,065.08	5,761.68	-5,765.28	-371.01	0.00	454,512.46	770,478.94	32.24654274	-103.45847141
	17,100.00	88.01	179.50	11,557.55	8,068.55	5,861.62	-5,865.22	-370.15	0.00	454,412.52	770,479.80	32.24626803	-103.45847125
	17,200.00	88.01	179.50	11,561.01	8,072.01	5,961.56	-5,965.16	-369.29	0.00	454,312.59	770,480.67	32.24599332	-103.45847109
	17,300.00	88.01	179.50	11,564.48	8,075.48	6,061.50	-6,065.09	-368.42	0.00	454,212.65	770,481.53	32.24571861	-103.45847093
	17,400.00	88.01	179.50	11,567.95	8,078.95	6,161.44	-6,165.03	-367.56	0.00	454,112.72	770,482.39	32.24544391	-103.45847077
	17,500.00	88.01	179.50	11,571.42	8,082.42	6,261.38	-6,264.96	-366.70	0.00	454,012.78	770,483.26	32.24516920	-103.45847061
	17,600.00	88.01	179.50	11,574.89	8,085.89	6,361.32	-6,364.90	-365.83	0.00	453,912.85	770,484.12	32.24489449	-103.45847045
	17,700.00	88.01	179.50	11,578.36	8,089.36	6,461.26	-6,464.84	-364.97	0.00	453,812.91	770,484.99	32.24461978	-103.45847029
	17,800.00	88.01	179.50	11,581.83	8,092.83	6,561.20	-6,564.77	-364.10	0.00	453,712.98	770,485.85	32.24434507	-103.45847012
	17,900.00	88.01	179.50	11,585.30	8,096.30	6,661.14	-6,664.71	-363.24	0.00	453,613.04	770,486.71	32.24407037	-103.45846996
	18,000.00	88.01	179.50	11,588.77	8,099.77	6,761.08	-6,764.65	-362.38	0.00	453,513.11	770,487.58	32.24379566	-103.45846980
	18,100.00	88.01	179.50	11,592.24	8,103.24	6,861.02	-6,864.58	-361.51	0.00	453,413.17	770,488.44	32.24352095	-103.45846964
	18,200.00	88.01	179.50	11,595.71	8,106.71	6,960.96	-6,964.52	-360.65	0.00	453,313.23	770,489.31	32.24324624	-103.45846948
	18,300.00	88.01	179.50	11,599.18	8,110.18	7,060.90	-7,064.45	-359.78	0.00	453,213.30	770,490.17	32.24297154	-103.45846932
	18,400.00	88.01	179.50	11,602.65	8,113.65	7,160.84	-7,164.39	-358.92	0.00	453,113.36	770,491.03	32.24269683	-103.45846916
	18,500.00	88.01	179.50	11,606.12	8,117.12	7,260.78	-7,264.33	-358.06	0.00	453,013.43	770,491.90	32.24242212	-103.45846900
	18,600.00	88.01	179.50	11,609.59	8,120.59	7,360.72	-7,364.26	-357.19	0.00	452,913.49	770,492.76	32.24214741	-103.45846884
	18,700.00	88.01	179.50	11,613.06	8,124.06	7,460.66	-7,464.20	-356.33	0.00	452,813.56	770,493.63	32.24187271	-103.45846867
	18,800.00	88.01	179.50	11,616.52	8,127.52	7,560.60	-7,564.13	-355.46	0.00	452,713.62	770,494.49	32.24159800	-103.45846851
	18,900.00	88.01	179.50	11,619.99	8,130.99	7,660.54	-7,664.07	-354.60	0.00	452,613.69	770,495.35	32.24132329	-103.45846835
	19,000.00	88.01	179.50	11,623.46	8,134.46	7,760.48	-7,764.01	-353.74	0.00	452,513.75	770,496.22	32.24104858	-103.45846819
	19,100.00	88.01	179.50	11,626.93	8,137.93	7,860.42	-7,863.94	-352.87	0.00	452,413.82	770,497.08	32.24077387	-103.45846803
	19,200.00	88.01	179.50	11,630.40	8,141.40	7,960.36	-7,963.88	-352.01	0.00	452,313.88	770,497.95	32.24049917	-103.45846787
	19,300.00	88.01	179.50	11,633.87	8,144.87	8,060.29	-8,063.81	-351.14	0.00	452,213.95	770,498.81	32.24022446	-103.45846771
	19,400.00	88.01	179.50	11,637.34	8,148.34	8,160.23	-8,163.75	-350.28	0.00	452,114.01	770,499.67	32.23994975	-103.45846755
	19,500.00	88.01	179.50	11,640.81	8,151.81	8,260.17	-8,263.69	-349.42	0.00	452,014.08	770,500.54	32.23967504	-103.45846739
LTP Cross	19,574.52	88.01	179.50	11,643.40	8,154.40	8,334.65	-8,338.16	-348.77	0.00	451,939.61	770,501.18	32.23947033	-103.45846727
	19,600.00	88.01	179.50	11,644.28	8,155.28	8,360.11	-8,363.62	-348.55	0.00	451,914.14	770,501.40	32.23940034	-103.45846722
ZN 34 3 State Com No. 618H BHL	19,649.59	88.01	179.50	11,646.00	8,157.00	8,409.68	-8,413.18	-348.12	0.00	451,864.58	770,501.83	32.23926410	-103.45846714

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

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
		1	0.000	23,178.310	1/100.000	25 – 8.75 – 6.125	9.625 – 7 – 6.125		B001Mb_MWD+HRGM				ZN 34 3 State Com No. 618H / ZN 34 3 State Co

EOU Geometry:

End MD (ft)	Hole Size (in)	Casing Size (in)	Name
917.000	17.500	13.375	
4,372.825	12.250	9.625	
8,354.826	8.750	7.000	
19,649.594	6.125		

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 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	11/21/2027	N/A	N/A	N/A	N/A
ZN 34 3 STATE COM 417H	Pending	11/21/2027	N/A	N/A	N/A	N/A
ZN 34 3 STATE COM 418H	Pending	11/21/2027	N/A	N/A	N/A	N/A
ZN 34 3 STATE COM 616H	Pending	11/21/2027	N/A	N/A	N/A	N/A
ZN 34 3 STATE COM 617H	Pending	11/21/2027	N/A	N/A	N/A	N/A
ZN 34 3 STATE COM 618H	Pending	11/21/2027	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:	Cindy Herrera-Murillo
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.

1 Intermediate 1 Casing Design

Section	12.25 in
Description	10.75", 40.5#, J55, BTC, MCBU
Casing Type	Casing
From (ft)	28.00
To (ft)	5121.01
Weight (lbm/ft)	40.50
Grade	J55
Connection	BTC
BTC Torque	Unknown
Nominal OD (in)	10.750
Nominal ID (in)	10.050
Drift (in)	9.894
Coupling OD (in)	11.750
Body Burst Rating (psi)	3130.00
Body Collapse Rating (psi)	1580.00
Body Tension Rating (lbf)	629000.00
Body Compression Rating (lbf)	629000.00
Connection Burst Rating (psi)	3130.00
Connection Collapse Rating (psi)	1580.00
Connection Tension Rating (lbf)	700000.00
Connection Compression Rating (lbf)	628000.00

Note: Any casing weight, grade or connection with higher performance ratings than components used for this analysis may be utilized. Ensure casing connection operating torque limit is sufficient for casing rotation and meets BLM clearance requirement (0.422 inches on all sides in the hole/casing annulus), if applicable.

Drilling Load Case Assumptions		
Casing - 10.75", 40.5#, J55, BTC, MCBU		
	Internal Pressure Profile	**External Pressure Profile**
Burst	1) Pressure test to 2,000 psi w/ 8.4 ppg MW 2) MASP of 670 psi connected linearly to frac gradient at shoe.	1) Pore Pressure
Collapse	1) Fixed mud drop at 2000' w/ 8.4 ppg min MW for next hole section. 2) Initial Conditions – Cementing w/ 8.4 ppg displacement fluid density.	1) 10.50 lbm/gal Max MW at TD 2) 10.00 lbm/gal at TD, Spacer, Cement
Axial	1) Casing weight, 8.4 ppg displacement fluid + 100 kips Overpull	1) 10.00 lbm/gal at TD, Spacer, Cement

Casing Design Factors

String Type	Burst	Collapse	Tension	Compression	Von Mises	Connection Envelope (VME)
Casing/Liner/Tieback						

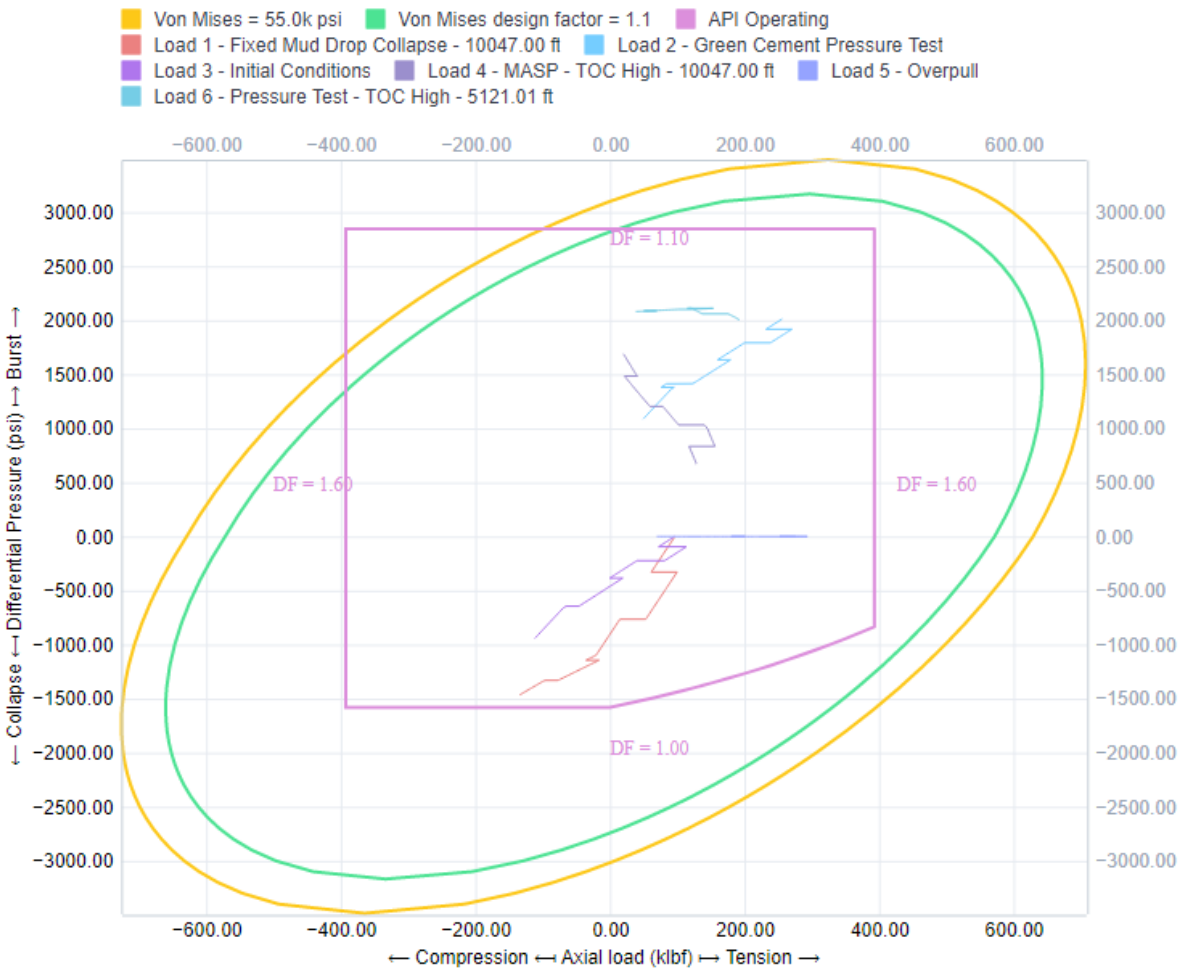
String Body	1.100	1.000	1.300	1.300	1.100	N/A
Non-API Connection	1.100	1.000	1.300	1.300	N/A	1.000
API Connection	1.100	1.000	1.600	1.600	N/A	1.000

Casing Design Results Summary

Section (Type)	String	Burst	Collapse	Tension	Compression	Von Mises	Buckling (deg/100ft)	Connection Envelope (VME)
12.25'' (Casing)	10.75", 40.5#, J55, BTC, MCBU	1.481	1.088	2.143	C 4.717	1.600	1.500	N/A

Casing Design Results Detailed

Section (Type)	String	Load Case	Burst	Collapse	Tension	Compression	Von Mises	Buckling (deg/100ft)	Connection Envelope (VME)
12.25'' (Casing)	10.75", 40.5#, J55, BTC, MCBU	Fixed Mud Drop Collapse - 10047.00 ft		1.088	6.132	C 4.717	2.386	1.500	N/A
12.25'' (Casing)	10.75", 40.5#, J55, BTC, MCBU	MASP - TOC High - 10047.00 ft	1.860		3.964		1.964	1.500	N/A
12.25'' (Casing)	10.75", 40.5#, J55, BTC, MCBU	Pressure Test - TOC High - 5121.01 ft	1.481		2.899		1.600	1.500	N/A
12.25'' (Casing)	10.75", 40.5#, J55, BTC, MCBU	Green Cement Pressure Test	1.560		2.303		1.718	1.500	N/A
12.25'' (Casing)	10.75", 40.5#, J55, BTC, MCBU	Overpull			2.143		2.117	1.500	N/A
12.25'' (Casing)	10.75", 40.5#, J55, BTC, MCBU	Initial Conditions		1.697	5.542	C 5.671	3.743	1.500	N/A



CASING TRIAXIAL: 10.75", 40.5#, J55, BTC, MCBU (28 – 5121.01 ft)

Chevron
ZN 34 3 State Com 618H
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	947	947	No
Saldo (SLDO)□	Anhydrite/Salt	1,312	1,312	No
Castile (CSTL)□	Anhydrite/Salt	3,459	3,469	No
Lamar (LMAR)□	Limestone/Shale	5,081	5,100	No
Bell Canyon (BEL)□	Sandstone/Limestone	5,131	5,150	No
Cherry Canyon (CHR)□	Sandstone/Siltstone	5,949	5,972	No
Brushy Canyon (BCN)□	Shale/Siltstone	7,397	7,420	No
Bone Spring Lime (BSL)□	Sandstone/Limestone	8,591	8,614	No
Upper Avalon (AVU)□	Shale	8,782	8,805	No
Lower Avalon (AVL)□	Shale	9,033	9,056	No
First Bone Spring Upper (FBU)□	Shale	9,680	9,703	No
First Bone Spring Lower (FBL)□	Shale	9,915	9,938	No
Second Bone Spring Upper (SBU)□	Shale	10,197	10,220	No
Second Bone Spring Lower (SBL)□	Shale	10,678	10,701	No
Third Bone Spring (TBS)□	Shale	11,191	11,282	No
Wolfcamp A (WCA)□	Shale	11,289	11,455	Yes: Oil & Natural Gas

WELLBORE LOCATIONS	MD	TVD
SHL	-	-
KOP	10,680	10,657
FTP	11,780	11,373
LTP	19,575	11,643
BHL	19,650	11,646

2. **BOP EQUIPMENT AND TESTING**

Rating Depth 11,646 TVD

Equipment
Chevron will have a minimum of a 5,000 psi rig stack for drill out below surface casing and a 10,000 psi rig stack for drilling the production hole section. See attached proposed schematics and 10,000 PSI Annular BOP Variance Request.

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 nippled 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'	5,080'	5,061'	12.25"	10.75"	40.5 #	J-55	BTC
Intermediate 2	0'	0'	10,680'	10,657'	9.875"	7.625"	29.7 #	P-110ICY	W441
Production Liner	10,480'	10,457'	19,650'	11,646'	6.75"	5.5"	20.0 #	P110	W421

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

b. **All casing strings will be new pipe.**
c. **Casing design depths subject to revision based on directional drilling and geologic conditions encountered.**
d. **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 surpass ⅓ 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	2.11	1.80	16.19	15.20
Intermediate 1	Refer to attached casing design load analysis			
Intermediate 2	1.33	2.08	2.53	3.37
Production Liner	1.41	2.38	2.24	2.75

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'	4,080'	378	2.29	11.5	25	866	Extender, Antifoam, Retarder, Viscosifier
Tail	Class C	4,080'	5,080'	175	1.63	12.6	25	285	Extender, Antifoam, Retarder, Viscosifier
Contingency: Top Job									
1st Tail	Class C	0'	4,080'	898	1.35	14.8	25	1212	Extender, Antifoam, Retarder, Viscosifier
Intermediate 2 Casing 7-5/8"									
Planned single stage cement job									
Lead	Class C	0'	9,680'	688	3.52	10.5	25	2423	Extender, Antifoam, Retarder, Viscosifier
Tail	Class C	9,680'	10,680'	192	1.52	12.6	25	292	Extender, Antifoam, Retarder, Viscosifier
Contingency: Top Job									
1st Tail	Class C	0'	7,680'	1663	1.35	14.8	25	2244	Extender, Antifoam, Retarder, Viscosifier
Production Liner 5.5									
Lead	Class H	10,480'	19,650'	630	1.52	12.6	25	957	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 Charactistics
0'	1,030'	Spud Mud	8.3	10.0	
1,030'	5,080'	Brine	8.3	10.0	Saturated brine would be used through salt sections.
5,080'	10,680'	WBM/Brine	8.7	10.0	
10,680'	19,650'	OBM	9.0	13.0	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 transportating 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	**7,873**	psi
Anticipated BHT	**203**	°F
Anticipated abnormal pressures?	**Yes**	
Describe abnormal pressures	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.