Form 3160-3
(June 2015)

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☐ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.

[332343]

2. Name of Operator

[4323]

9. API Well No. **30-025-49757**

3a. Address	3b. Phone No. *(include area code)*	10. Field and Pool, or Exploratory **[96715]** **XXXXXXX** **XXX**

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface

At proposed prod. zone

11. Sec., T. R. M. or Blk. and Survey or Area

14. Distance in miles and direction from nearest town or post office*	12. County or Parish	13. State

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

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

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

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

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

NGMP Rec 02/08/2022

KZ
02/10/2022

SL

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 02/02/2022

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-025-49757	96715	WC-025 G-05 S253209L;BONE SPRING

[4] Property Code	[5] Property Name	[6] Well Number
332343	CO VIPER 4 33 FED	402H

[7] OGRID No.	[8] Operator Name	[9] Elevation
4323	CHEVRON U.S.A. INC.	3474'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	4	25 SOUTH	32 EAST, N.M.P.M.		1821'	SOUTH	2266'	EAST	LEA

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	33	24 SOUTH	32 EAST, N.M.P.M.		25'	NORTH	1430'	EAST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
560	DEFINING		

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.

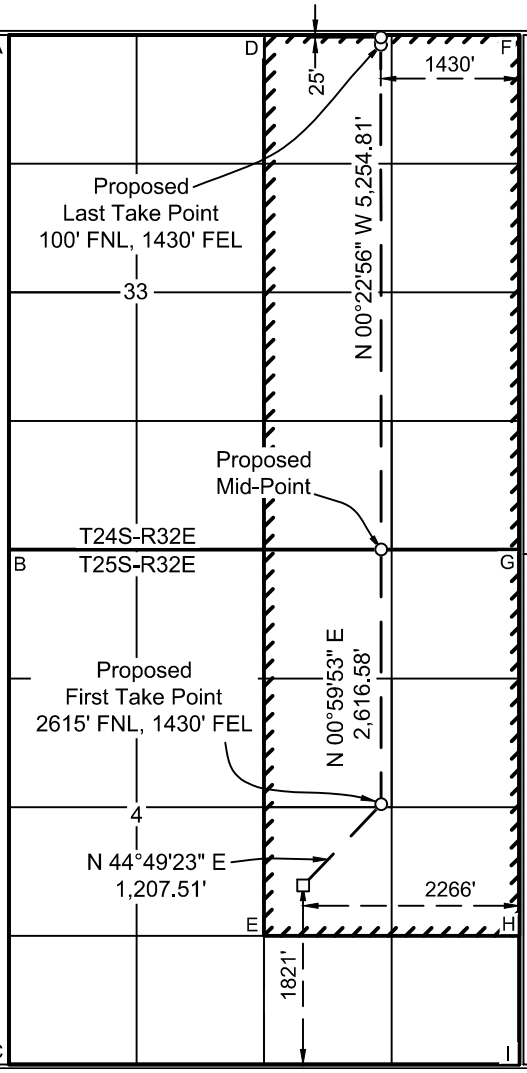
[16]

CO VIPER 4 33 FED NO. 402H WELL		PROPOSED BOTTOM HOLE LOCATION	
X= 702,755'	NAD 27	X= 703,617'	NAD 27
Y= 421,485'		Y= 430,212'	
LAT. 32.157082° N		LAT. 32.181058° N	
LONG. 103.678160° W		LONG. 103.675204° W	
X= 743,940'	NAD83/2011	X= 744,802'	NAD83/2011
Y= 421,543'		Y= 430,270'	
LAT. 32.157206° N		LAT. 32.181181° N	
LONG. 103.678638° W		LONG. 103.675682° W	
ELEVATION +3474' NAVD 88			

PROPOSED MID-POINT	
X= 703,652'	NAD 27
Y= 424,957'	
LAT. 32.166613° N	
LONG. 103.675194° W	
X= 744,837'	NAD83/2011
Y= 425,016'	
LAT. 32.166737° N	
LONG. 103.675672° W	

PROPOSED FIRST TAKE POINT		PROPOSED LAST TAKE POINT	
X= 703,606'	NAD 27	X= 703,617'	NAD 27
Y= 422,341'		Y= 430,137'	
LAT. 32.159422° N		LAT. 32.180852° N	
LONG. 103.675393° W		LONG. 103.675203° W	
X= 744,791'	NAD83/2011	X= 744,802'	NAD83/2011
Y= 422,399'		Y= 430,195'	
LAT. 32.159546° N		LAT. 32.180975° N	
LONG. 103.675870° W		LONG. 103.675682° W	

CORNER COORDINATES TABLE (NAD 27)
A - Y=430198.06, X=699760.40
B - Y=424915.87, X=699799.62
C - Y=419627.04, X=699671.73
D - Y=430224.84, X=702403.47
E - Y=420979.90, X=702358.53
F - Y=430251.61, X=705046.53
G - Y=424972.86, X=705081.74
H - Y=421010.55, X=705013.37
I - Y=419689.78, X=704990.58



[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Cindy Herrera-Murillo — 02/4/2022
Signature — Date

Cindy Herrera-Murillo
Printed Name

eeof@chevron.com
E-mail Address

[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

02/18/2020
Date of Survey

Signature and Seal of Professional Surveyor:

ROBERT L. LASTRAPES
NEW MEXICO
23006
02/04/2022
PROFESSIONAL SURVEYOR

Certificate Number

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:** 1 / 14 / 2022

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

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
CO VIPER 4 33 FED 401H	Pending	UL:J-4-25S-32E	1821' FSL, 2291' FEL	1830 BBL/D	3530 MCF/D	2720 BBL/D
CO VIPER 4 33 FED 402H	Pending **30-025-49757**	UL:J-4-25S-32E	1821' FSL, 2266' FEL	1830 BBL/D	3530 MCF/D	2720 BBL/D
CO VIPER 4 33 FED 403H	Pending	UL:J-4-25S-32E	1821' FNL, 2241' FEL	1830 BBL/D	3530 MCF/D	2720 BBL/D

IV. Central Delivery Point Name: Cotton Draw CTB #3 [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
CO VIPER 4 33 FED 401H	Pending	9/6/2023	N/A	N/A	N/A	N/A
CO VIPER 4 33 FED 402H	Pending **30-025-49757**	9/24/2023	N/A	N/A	N/A	N/A
CO VIPER 4 33 FED 403H	Pending	10/12/2023	N/A	N/A	N/A	N/A

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

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

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

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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

Signature:
Printed Name: Cindy Herrera-Murillo
Title: Senior HSE Regulatory Affairs Coordinator
E-mail Address: eeof@chevron.com
Date: 02/3//2022
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.

Operator Name: CHEVRON USA INCORPORATED

Well Name: CO VIPER 4 33 FED **Well Number:** 402H

third party. A variance to use a CoFlex hose with a metal protective covering that will be utilized between the BOP and Choke manifold. Please refer to the attached testing and specification documents. - A variance from the Onshore Order 2 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.

Testing Procedure: Stack will be tested as specified in the attached testing requirements, upon NU and not to exceed 30 days. Test BOP from 250 psi to 5000 psi in Ram and 250 psi to 3500 psi in annular. BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. Batch drilling of the surface, intermediate, and production will take place. A full BOP test will be performed unless approval from the BLM is received otherwise. Flex choke hose will be used for all wells on the pad. BOP test will be conducted by a third party. Upon the first nipple up of the pad a full BOP test will be performed. A break test will NOT be performed on our last production section. A break test will only be performed on operations where BLM documentation states a 5M or less BOP can be utilized. We will test seals that have been broken individually between full BOP tests. Time between tests for a single test or full test will not exceed 21 days.

Choke Diagram Attachment:

Choke_Flex_Hose_2_20200326061721.pdf

CoFlex_Hose_Variance_Salanova_20200326061802.pdf

NM_Slim_Hole_Wellhead_6650_psi_UH_S_20210203115939.pdf

BOP Diagram Attachment:

BLM_5M_Annular_10M_Stack_BOP_Choke_Schematic_20200326062158.pdf

WOC_Sundry_Variance_Viper_20211110160244.pdf

Break_Testing_Sundry_Viper_20211110160401.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	16	13.375	NEW	API	N	0	1033	0	1033	3474	2441	1033	J-55	54.5	BUTT	2.13	1.43	DRY	4.07	DRY	4.07
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	4692	0	4692	3554	-1218	4692	L-80	40	OTHER - BTC	1.24	1.64	DRY	2.78	DRY	2.78
3	PRODUCTION	8.75	7.0	NEW	API	N	0	10177	0	10177	3474	-6703	10177	P-110	29	OTHER - BLUE	1.63	1.15	DRY	2.39	DRY	2.39
4	PRODUCTION	6.125	5.0	NEW	API	N	9877	10677	9803	10503	-6329	-7029	800	P-110	18	OTHER - W513	1.1	1.39	DRY	1.32	DRY	1.32
5	PRODUCTION	6.125	4.5	NEW	API	N	10677	18948	10503	10721	-7029	-7247	8271	P-110	11.6	OTHER - W521	1.1	1.39	DRY	1.32	DRY	1.32

Operator Name: CHEVRON USA INCORPORATED

Well Name: CO VIPER 4 33 FED **Well Number:** 402H

Casing Attachments

Casing ID: 1 **String Type:** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

13_3_8_casing_spec_sheet_20210923082047.pdf

Casing ID: 2 **String Type:** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

9.625_40.0lb_L80IC_BTC_20210923082318.pdf

Casing ID: 3 **String Type:** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

7in_Blue_vs_BlueSD_20210923082655.pdf

Operator Name: CHEVRON USA INCORPORATED

Well Name: CO VIPER 4 33 FED **Well Number:** 402H

Casing Attachments

Casing ID: 4 **String Type:** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

5_18ppf_P110_Flush_W513_20210923083029.pdf

Casing ID: 5 **String Type:** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

4.5_11.6ppf_P110_TSH_W521_20210923083236.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	0	0	0	0	0	0	N/A	N/A
SURFACE	Tail		0	1033	483	1.34	14.8	647	100	CLASS C	Extender, Antifoam, Retarder
INTERMEDIATE	Lead		0	3692	1156	2	13.2	2313	100	Class C	Extender, Antifoam, Retarder, Viscosifier
INTERMEDIATE	Tail		3692	4692	336	1.4	14.8	470	50	Class C	Extender, Antifoam, Retarder, Viscosifier
PRODUCTION	Lead		4172	9177	562	2	13.2	1124	50	Class C	Extender, Antifoam, Retarder, Viscosifier

Operator Name: CHEVRON USA INCORPORATED

Well Name: CO VIPER 4 33 FED **Well Number:** 402H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		9177	10177	134	1.4	14.8	188	25	CLASS C	Extender, Antifoam, Retarder Viscosifier
PRODUCTION	Lead		9877	18948	580	1.84	13.2	1068	25	CLASS C	Extender, Antifoam, Retarder, Viscosifier

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: 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. A weighting agent and lost circulating material (LCM) will be onsite to mitigate pressure or lost circulation as hole conditions dictate.
Describe the mud monitoring system utilized: A closed system will be used consisting of above ground steel tanks. 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. 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. Transportation 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.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
10177	18948	OIL-BASED MUD	8.7	10.5							Viscosity: 50-70 Filtrate: 5-10
0	1033	SPUD MUD	8.3	8.9							Viscosity: 26-36 Filtrate: 15-25
1033	4692	SALT SATURATED	8.3	10.6							Viscosity: 26-36 Filtrate: 15-25

Operator Name: CHEVRON USA INCORPORATED

Well Name: CO VIPER 4 33 FED **Well Number:** 402H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
4692	10177	OTHER : WBM/BRINE	8.7	10.6							Viscosity: 26-36 Filtrate: 15-25 Due to wellbore stability in the lateral well, MW will be adjusted as needed to ensure the hole doesn't collapse.

Section 6 - Test, Logging, Coring

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

TYPE	LOGS	INTERVAL	TIMING
Mudlogs	2 man mudlog	Surface casing shoe through prod hole TD	While drilling or circulating
LWD	MWD Gamma	Int. and Prod. Hole	While Drilling

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

DIRECTIONAL SURVEY,GAMMA RAY LOG,MUD LOG/GEOLOGICAL LITHOLOGY LOG,

Coring operation description for the well:

Conventional whole core samples are not planned, a directional survey will be run and logs will be submitted.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5352 **Anticipated Surface Pressure:** 2993

Anticipated Bottom Hole Temperature(F): 150

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

H2S_Contingency_Plan_20210923084959.pdf

Operator Name: CHEVRON USA INCORPORATED

Well Name: CO VIPER 4 33 FED **Well Number:** 402H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Cotton_Draw_Viper_402H_Directional_Plan_20210203121123.pdf

Other proposed operations facets description:

- Authorization to use the spudder rig to spud the well and set surface casing. The drilling rig will move in less than 90 days to continue drilling operations. Rig layouts attached.

***Drilling plan attached contains a contingency cement program.

Other proposed operations facets attachment:

CO_Viper_4_33_FED_Gas_Capture_Plan_20210203121138.pdf

CO_Viper_402_9_point_r3_20211129160138.pdf

Other Variance attachment:

Schlumberger

Chevron CO Viper 4 33 Fed No. 402H Rev0 CVS 04Jun20 Proposal Geodetic Report

(Non-Def Plan)

Report Date:	June 05, 2020 - 02:03 PM	**Survey / DLS Computation:**	Minimum Curvature / Lubinski
Client:	Chevron	**Vertical Section Azimuth:**	0.081 ° (Grid North)
Field:	NM Lea County (NAD 27)	**Vertical Section Origin:**	0.000 ft, 0.000 ft
Structure / Slot:	Chevron CO Viper 4 33 Fed Pad / 402H	**TVD Reference Datum:**	RKB
Well:	CO Viper 4 33 Fed No. 402H	**TVD Reference Elevation:**	3504.000 ft above MSL
Borehole:	CO Viper 4 33 Fed No. 402H	**Seabed / Ground Elevation:**	3474.000 ft above MSL
UWI / API#:	Unknown / Unknown	**Magnetic Declination:**	6.557 °
Survey Name:	Chevron CO Viper 4 33 Fed No. 402H Rev0 CVS 04Jun20	**Total Gravity Field Strength:**	998.4282mgn (9.80665 Based)
Survey Date:	June 05, 2020	**Gravity Model:**	GARM
Tort / AHD / DDI / ERD Ratio:	110.986 ° / 9328.150 ft / 6.262 / 0.870	**Total Magnetic Field Strength:**	47733.216 nT
Coordinate Reference System:	NAD27 New Mexico State Plane, Eastern Zone, US Feet	**Magnetic Dip Angle:**	59.767 °
Location Lat / Long:	N 32° 9' 25.49856", W 103° 40' 41.37797"	**Declination Date:**	June 05, 2020
Location Grid N/E Y/X:	N 421485.000 ftUS, E 702755.000 ftUS	**Magnetic Declination Model:**	HDGM 2020
CRS Grid Convergence Angle:	0.3487 °	**North Reference:**	Grid North
Grid Scale Factor:	0.99995617	**Grid Convergence Used:**	0.3487 °
Version / Patch:	2.10.811.0	**Total Corr Mag North->Grid North:**	6.2085 °
		Local Coord Referenced To:	Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	421485.00	702755.00	N 32 9 25.50	W 103 40 41.38
	100.00	0.00	71.02	100.00	0.00	0.00	0.00	0.00	421485.00	702755.00	N 32 9 25.50	W 103 40 41.38
	200.00	0.00	71.02	200.00	0.00	0.00	0.00	0.00	421485.00	702755.00	N 32 9 25.50	W 103 40 41.38
	300.00	0.00	71.02	300.00	0.00	0.00	0.00	0.00	421485.00	702755.00	N 32 9 25.50	W 103 40 41.38
	400.00	0.00	71.02	400.00	0.00	0.00	0.00	0.00	421485.00	702755.00	N 32 9 25.50	W 103 40 41.38
	500.00	0.00	71.02	500.00	0.00	0.00	0.00	0.00	421485.00	702755.00	N 32 9 25.50	W 103 40 41.38
	600.00	0.00	71.02	600.00	0.00	0.00	0.00	0.00	421485.00	702755.00	N 32 9 25.50	W 103 40 41.38
	700.00	0.00	71.02	700.00	0.00	0.00	0.00	0.00	421485.00	702755.00	N 32 9 25.50	W 103 40 41.38
	800.00	0.00	71.02	800.00	0.00	0.00	0.00	0.00	421485.00	702755.00	N 32 9 25.50	W 103 40 41.38
Rustler	*803.00*	*0.00*	*71.02*	*803.00*	*0.00*	*0.00*	*0.00*	*0.00*	*421485.00*	*702755.00*	*N 32 9 25.50*	*W 103 40 41.38*
9-5/8" Casing	900.00	0.00	71.02	900.00	0.00	0.00	0.00	0.00	421485.00	702755.00	N 32 9 25.50	W 103 40 41.38
	1000.00	0.00	71.02	1000.00	0.00	0.00	0.00	0.00	421485.00	702755.00	N 32 9 25.50	W 103 40 41.38
	1100.00	0.00	71.02	1100.00	0.00	0.00	0.00	0.00	421485.00	702755.00	N 32 9 25.50	W 103 40 41.38
Build 1.5°/100ft	1180.00	0.00	71.02	1180.00	0.00	0.00	0.00	0.00	421485.00	702755.00	N 32 9 25.50	W 103 40 41.38
	1200.00	0.30	71.02	1200.00	0.02	0.02	0.05	1.50	421485.02	702755.05	N 32 9 25.50	W 103 40 41.38
	1300.00	1.80	71.02	1299.98	0.62	0.61	1.78	1.50	421485.61	702756.78	N 32 9 25.50	W 103 40 41.36
	1400.00	3.30	71.02	1399.88	2.07	2.06	5.99	1.50	421487.06	702760.99	N 32 9 25.52	W 103 40 41.31
	1500.00	4.80	71.02	1499.63	4.38	4.36	12.67	1.50	421489.36	702767.67	N 32 9 25.54	W 103 40 41.23
	1600.00	6.30	71.02	1599.15	7.53	7.50	21.81	1.50	421492.50	702776.81	N 32 9 25.57	W 103 40 41.12
	1700.00	7.80	71.02	1698.40	11.54	11.50	33.42	1.50	421496.49	702788.42	N 32 9 25.61	W 103 40 40.99
	1800.00	9.30	71.02	1797.28	16.40	16.33	47.48	1.50	421501.33	702802.48	N 32 9 25.66	W 103 40 40.82
Hold	1846.60	10.00	71.02	1843.22	18.95	18.87	54.86	1.50	421503.87	702809.86	N 32 9 25.68	W 103 40 40.74
	1900.00	10.00	71.02	1895.81	21.98	21.89	63.63	0.00	421506.89	702818.63	N 32 9 25.71	W 103 40 40.64
	2000.00	10.00	71.02	1994.29	27.65	27.53	80.05	0.00	421512.53	702835.05	N 32 9 25.77	W 103 40 40.44
	2100.00	10.00	71.02	2092.77	33.32	33.18	96.47	0.00	421518.18	702851.46	N 32 9 25.82	W 103 40 40.25
	2200.00	10.00	71.02	2191.25	38.99	38.83	112.89	0.00	421523.83	702867.88	N 32 9 25.88	W 103 40 40.06
	2300.00	10.00	71.02	2289.73	44.66	44.48	129.31	0.00	421529.48	702884.30	N 32 9 25.93	W 103 40 39.87
	2400.00	10.00	71.02	2388.22	50.33	50.12	145.73	0.00	421535.12	702900.72	N 32 9 25.99	W 103 40 39.68
	2500.00	10.00	71.02	2486.70	56.00	55.77	162.14	0.00	421540.77	702917.14	N 32 9 26.04	W 103 40 39.49
	2600.00	10.00	71.02	2585.18	61.67	61.42	178.56	0.00	421546.42	702933.56	N 32 9 26.10	W 103 40 39.30
	2700.00	10.00	71.02	2683.66	67.34	67.07	194.98	0.00	421552.06	702949.97	N 32 9 26.15	W 103 40 39.11
	2800.00	10.00	71.02	2782.14	73.01	72.71	211.40	0.00	421557.71	702966.39	N 32 9 26.21	W 103 40 38.91
	2900.00	10.00	71.02	2880.62	78.68	78.36	227.82	0.00	421563.36	702982.81	N 32 9 26.26	W 103 40 38.72
	3000.00	10.00	71.02	2979.10	84.36	84.01	244.24	0.00	421569.01	702999.23	N 32 9 26.32	W 103 40 38.53
	3100.00	10.00	71.02	3077.58	90.03	89.66	260.66	0.00	421574.65	703015.65	N 32 9 26.37	W 103 40 38.34
	3200.00	10.00	71.02	3176.06	95.70	95.31	277.08	0.00	421580.30	703032.06	N 32 9 26.42	W 103 40 38.15
	3300.00	10.00	71.02	3274.55	101.37	100.95	293.50	0.00	421585.95	703048.48	N 32 9 26.48	W 103 40 37.96
	3400.00	10.00	71.02	3373.03	107.04	106.60	309.91	0.00	421591.60	703064.90	N 32 9 26.53	W 103 40 37.77
	3500.00	10.00	71.02	3471.51	112.71	112.25	326.33	0.00	421597.24	703081.32	N 32 9 26.59	W 103 40 37.57
	3600.00	10.00	71.02	3569.99	118.38	117.90	342.75	0.00	421602.89	703097.74	N 32 9 26.64	W 103 40 37.38
	3700.00	10.00	71.02	3668.47	124.05	123.54	359.17	0.00	421608.54	703114.15	N 32 9 26.70	W 103 40 37.19
	3800.00	10.00	71.02	3766.95	129.72	129.19	375.59	0.00	421614.18	703130.57	N 32 9 26.75	W 103 40 37.00
	3900.00	10.00	71.02	3865.43	135.39	134.84	392.01	0.00	421619.83	703146.99	N 32 9 26.81	W 103 40 36.81
	4000.00	10.00	71.02	3963.91	141.06	140.49	408.43	0.00	421625.48	703163.41	N 32 9 26.86	W 103 40 36.62
Castile	*4008.21*	*10.00*	*71.02*	*3972.00*	*141.53*	*140.95*	*409.78*	*0.00*	*421625.94*	*703164.76*	*N 32 9 26.87*	*W 103 40 36.60*
	4100.00	10.00	71.02	4062.39	146.73	146.13	424.85	0.00	421631.13	703179.83	N 32 9 26.92	W 103 40 36.43
	4200.00	10.00	71.02	4160.88	152.40	151.78	441.26	0.00	421636.77	703196.24	N 32 9 26.97	W 103 40 36.23
	4300.00	10.00	71.02	4259.36	158.07	157.43	457.68	0.00	421642.42	703212.66	N 32 9 27.03	W 103 40 36.04
	4400.00	10.00	71.02	4357.84	163.75	163.08	474.10	0.00	421648.07	703229.08	N 32 9 27.08	W 103 40 35.85
	4500.00	10.00	71.02	4456.32	169.42	168.72	490.52	0.00	421653.72	703245.50	N 32 9 27.14	W 103 40 35.66
	4600.00	10.00	71.02	4554.80	175.09	174.37	506.94	0.00	421659.36	703261.92	N 32 9 27.19	W 103 40 35.47
	4700.00	10.00	71.02	4653.28	180.76	180.02	523.36	0.00	421665.01	703278.34	N 32 9 27.25	W 103 40 35.28
Lamar	*4723.07*	*10.00*	*71.02*	*4676.00*	*182.07*	*181.32*	*527.15*	*0.00*	*421666.31*	*703282.12*	*N 32 9 27.26*	*W 103 40 35.23*
Bell Canyon	*4771.81*	*10.00*	*71.02*	*4724.00*	*184.83*	*184.07*	*535.15*	*0.00*	*421669.07*	*703290.12*	*N 32 9 27.29*	*W 103 40 35.14*
	4800.00	10.00	71.02	4751.76	186.43	185.67	539.78	0.00	421670.66	703294.75	N 32 9 27.30	W 103 40 35.09
	4900.00	10.00	71.02	4850.24	192.10	191.31	556.20	0.00	421676.30	703311.17	N 32 9 27.36	W 103 40 34.89
	5000.00	10.00	71.02	4948.72	197.77	196.96	572.62	0.00	421681.95	703327.59	N 32 9 27.41	W 103 40 34.70
	5100.00	10.00	71.02	5047.21	203.44	202.61	589.03	0.00	421687.60	703344.01	N 32 9 27.47	W 103 40 34.51
	5200.00	10.00	71.02	5145.69	209.11	208.26	605.45	0.00	421693.25	703360.43	N 32 9 27.52	W 103 40 34.32
	5300.00	10.00	71.02	5244.17	214.78	213.90	621.87	0.00	421698.89	703376.84	N 32 9 27.58	W 103 40 34.13
	5400.00	10.00	71.02	5342.65	220.45	219.55	638.29	0.00	421704.54	703393.26	N 32 9 27.63	W 103 40 33.94
	5500.00	10.00	71.02	5441.13	226.12	225.20	654.71	0.00	421710.19	703409.68	N 32 9 27.69	W 103 40 33.75
	5600.00	10.00	71.02	5539.61	231.79	230.85	671.13	0.00	421715.84	703426.10	N 32 9 27.74	W 103 40 33.56
Cherry Canyon	*5659.29*	*10.00*	*71.02*	*5598.00*	*235.16*	*234.19*	*680.86*	*0.00*	*421719.18*	*703435.83*	*N 32 9 27.77*	*W 103 40 33.44*
	5700.00	10.00	71.02	5638.09	237.47	236.49	687.55	0.00	421721.48	703442.52	N 32 9 27.80	W 103 40 33.36
	5800.00	10.00	71.02	5736.57	243.14	242.14	703.97	0.00	421727.13	703458.93	N 32 9 27.85	W 103 40 33.17
	5900.00	10.00	71.02	5835.05	248.81	247.79	720.39	0.00	421732.78	703475.35	N 32 9 27.91	W 103 40 32.98
	6000.00	10.00	71.02	5933.54	254.48	253.44	736.80	0.00	421738.42	703491.77	N 32 9 27.96	W 103 40 32.79
	6100.00	10.00	71.02	6032.02	260.15	259.08	753.22	0.00	421744.07	703508.19	N 32 9 28.02	W 103 40 32.60
	6200.00	10.00	71.02	6130.50	265.82	264.73	769.64	0.00	421749.72	703524.61	N 32 9 28.07	W 103 40 32.41
	6300.00	10.00	71.02	6228.98	271.49	270.38	786.06	0.00	421755.37	703541.02	N 32 9 28.13	W 103 40 32.22
Drop 1.5°/100ft	6300.89	10.00	71.02	6229.86	271.54	270.43	786.21	0.00	421755.42	703541.17	N 32 9 28.13	W 103 40 32.21
	6400.00	8.51	71.02	6327.67	276.75	275.61	801.28	1.50	421760.60	703556.24	N 32 9 28.18	W 103 40 32.04
	6500.00	7.01	71.02	6426.75	281.16	280.01	814.05	1.50	421764.99	703569.01	N 32 9 28.22	W 103 40 31.89
	6600.00	5.51	71.02	6526.15	284.72	283.55	824.37	1.50	421768.54	703579.33	N 32 9 28.25	W 103 40 31.77
	6700.00	4.01	71.02	6625.81	287.43	286.25	832.22	1.50	421771.24	703587.18	N 32 9 28.28	W 103 40 31.68

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	6800.00	2.51	71.02	6725.64	289.29	288.11	837.60	1.50	421773.09	703592.56	N 32 9 28.30	W 103 40 31.61
	6900.00	1.01	71.02	6825.59	290.29	289.11	840.51	1.50	421774.09	703595.47	N 32 9 28.31	W 103 40 31.58
Hold Vertical	6967.49	0.00	71.02	6893.07	290.49	289.30	841.07	1.50	421774.29	703596.03	N 32 9 28.31	W 103 40 31.57
	7000.00	0.00	71.02	6925.59	290.49	289.30	841.07	0.00	421774.29	703596.03	N 32 9 28.31	W 103 40 31.57
Brushy Canyon	*7014.41*	*0.00*	*71.02*	*6940.00*	*290.49*	*289.30*	*841.07*	*0.00*	*421774.29*	*703596.03*	*N 32 9 28.31*	*W 103 40 31.57*
	7100.00	0.00	71.02	7025.59	290.49	289.30	841.07	0.00	421774.29	703596.03	N 32 9 28.31	W 103 40 31.57
	7200.00	0.00	71.02	7125.59	290.49	289.30	841.07	0.00	421774.29	703596.03	N 32 9 28.31	W 103 40 31.57
	7300.00	0.00	71.02	7225.59	290.49	289.30	841.07	0.00	421774.29	703596.03	N 32 9 28.31	W 103 40 31.57
	7400.00	0.00	71.02	7325.59	290.49	289.30	841.07	0.00	421774.29	703596.03	N 32 9 28.31	W 103 40 31.57
	7500.00	0.00	71.02	7425.59	290.49	289.30	841.07	0.00	421774.29	703596.03	N 32 9 28.31	W 103 40 31.57
	7600.00	0.00	71.02	7525.59	290.49	289.30	841.07	0.00	421774.29	703596.03	N 32 9 28.31	W 103 40 31.57
	7700.00	0.00	71.02	7625.59	290.49	289.30	841.07	0.00	421774.29	703596.03	N 32 9 28.31	W 103 40 31.57
	7800.00	0.00	71.02	7725.59	290.49	289.30	841.07	0.00	421774.29	703596.03	N 32 9 28.31	W 103 40 31.57
	7900.00	0.00	71.02	7825.59	290.49	289.30	841.07	0.00	421774.29	703596.03	N 32 9 28.31	W 103 40 31.57
	8000.00	0.00	71.02	7925.59	290.49	289.30	841.07	0.00	421774.29	703596.03	N 32 9 28.31	W 103 40 31.57
	8100.00	0.00	71.02	8025.59	290.49	289.30	841.07	0.00	421774.29	703596.03	N 32 9 28.31	W 103 40 31.57
	8200.00	0.00	71.02	8125.59	290.49	289.30	841.07	0.00	421774.29	703596.03	N 32 9 28.31	W 103 40 31.57
	8300.00	0.00	71.02	8225.59	290.49	289.30	841.07	0.00	421774.29	703596.03	N 32 9 28.31	W 103 40 31.57
	8400.00	0.00	71.02	8325.59	290.49	289.30	841.07	0.00	421774.29	703596.03	N 32 9 28.31	W 103 40 31.57
	8500.00	0.00	71.02	8425.59	290.49	289.30	841.07	0.00	421774.29	703596.03	N 32 9 28.31	W 103 40 31.57
	8600.00	0.00	71.02	8525.59	290.49	289.30	841.07	0.00	421774.29	703596.03	N 32 9 28.31	W 103 40 31.57
Bone Spring	*8640.41*	*0.00*	*71.02*	*8566.00*	*290.49*	*289.30*	*841.07*	*0.00*	*421774.29*	*703596.03*	*N 32 9 28.31*	*W 103 40 31.57*
	8700.00	0.00	71.02	8625.59	290.49	289.30	841.07	0.00	421774.29	703596.03	N 32 9 28.31	W 103 40 31.57
Upper Avalon	*8721.41*	*0.00*	*71.02*	*8647.00*	*290.49*	*289.30*	*841.07*	*0.00*	*421774.29*	*703596.03*	*N 32 9 28.31*	*W 103 40 31.57*
7" Casing	*8724.41*	*0.00*	*71.02*	*8650.00*	*290.49*	*289.30*	*841.07*	*0.00*	*421774.29*	*703596.03*	*N 32 9 28.31*	*W 103 40 31.57*
	8800.00	0.00	71.02	8725.59	290.49	289.30	841.07	0.00	421774.29	703596.03	N 32 9 28.31	W 103 40 31.57
	8900.00	0.00	71.02	8825.59	290.49	289.30	841.07	0.00	421774.29	703596.03	N 32 9 28.31	W 103 40 31.57
	9000.00	0.00	71.02	8925.59	290.49	289.30	841.07	0.00	421774.29	703596.03	N 32 9 28.31	W 103 40 31.57
	9100.00	0.00	71.02	9025.59	290.49	289.30	841.07	0.00	421774.29	703596.03	N 32 9 28.31	W 103 40 31.57
	9200.00	0.00	71.02	9125.59	290.49	289.30	841.07	0.00	421774.29	703596.03	N 32 9 28.31	W 103 40 31.57
	9300.00	0.00	71.02	9225.59	290.49	289.30	841.07	0.00	421774.29	703596.03	N 32 9 28.31	W 103 40 31.57
	9400.00	0.00	71.02	9325.59	290.49	289.30	841.07	0.00	421774.29	703596.03	N 32 9 28.31	W 103 40 31.57
	9500.00	0.00	71.02	9425.59	290.49	289.30	841.07	0.00	421774.29	703596.03	N 32 9 28.31	W 103 40 31.57
	9600.00	0.00	71.02	9525.59	290.49	289.30	841.07	0.00	421774.29	703596.03	N 32 9 28.31	W 103 40 31.57
Top Bone Spring 1	*9693.41*	*0.00*	*71.02*	*9619.00*	*290.49*	*289.30*	*841.07*	*0.00*	*421774.29*	*703596.03*	*N 32 9 28.31*	*W 103 40 31.57*
	9700.00	0.00	71.02	9625.59	290.49	289.30	841.07	0.00	421774.29	703596.03	N 32 9 28.31	W 103 40 31.57
	9800.00	0.00	71.02	9725.59	290.49	289.30	841.07	0.00	421774.29	703596.03	N 32 9 28.31	W 103 40 31.57
	9900.00	0.00	71.02	9825.59	290.49	289.30	841.07	0.00	421774.29	703596.03	N 32 9 28.31	W 103 40 31.57
	10000.00	0.00	71.02	9925.59	290.49	289.30	841.07	0.00	421774.29	703596.03	N 32 9 28.31	W 103 40 31.57
	10100.00	0.00	71.02	10025.59	290.49	289.30	841.07	0.00	421774.29	703596.03	N 32 9 28.31	W 103 40 31.57
KOP, Build 10°/100ft	10177.49	0.00	71.02	10103.07	290.49	289.30	841.07	0.00	421774.29	703596.03	N 32 9 28.31	W 103 40 31.57
	10200.00	2.25	1.01	10125.58	290.93	289.74	841.08	10.00	421774.73	703596.04	N 32 9 28.31	W 103 40 31.57
	10300.00	12.25	1.01	10224.66	303.54	302.35	841.30	10.00	421787.33	703596.26	N 32 9 28.44	W 103 40 31.57
Top Bone Spring 2	*10300.35*	*12.29*	*1.01*	*10225.00*	*303.61*	*302.42*	*841.30*	*10.00*	*421787.41*	*703596.26*	*N 32 9 28.44*	*W 103 40 31.57*
	10400.00	22.25	1.01	10320.04	333.15	331.96	841.82	10.00	421816.95	703596.78	N 32 9 28.73	W 103 40 31.56
Bone Spring 2 Target 2	*10404.29*	*22.68*	*1.01*	*10324.00*	*334.79*	*333.60*	*841.85*	*10.00*	*421818.58*	*703596.81*	*N 32 9 28.75*	*W 103 40 31.56*
	10500.00	32.25	1.01	10408.82	378.88	377.68	842.62	10.00	421862.67	703597.59	N 32 9 29.19	W 103 40 31.55
	10600.00	42.25	1.01	10488.32	439.32	438.13	843.69	10.00	421923.11	703598.65	N 32 9 29.78	W 103 40 31.53
	10700.00	52.25	1.01	10556.11	512.65	511.46	844.98	10.00	421996.44	703599.94	N 32 9 30.51	W 103 40 31.51
	10800.00	62.25	1.01	10610.14	596.64	595.44	846.45	10.00	422080.42	703601.41	N 32 9 31.34	W 103 40 31.49
	10900.00	72.25	1.01	10648.76	688.73	687.53	848.07	10.00	422172.50	703603.03	N 32 9 32.25	W 103 40 31.46
	11000.00	82.25	1.01	10670.80	786.13	784.93	849.79	10.00	422269.89	703604.75	N 32 9 33.21	W 103 40 31.44
FTP Cross Landing Point	11071.36	89.39	1.01	10676.00	857.24	856.04	851.04	10.00	422341.00	703606.00	N 32 9 33.92	W 103 40 31.42
Bone Spring 2 Target 1	*11071.45*	*89.39*	*1.01*	*10676.00*	*857.34*	*856.13*	*851.04*	*0.00*	*422341.09*	*703606.00*	*N 32 9 33.92*	*W 103 40 31.42*
	11100.00	89.39	1.01	10676.31	885.88	884.68	851.54	0.00	422369.64	703606.50	N 32 9 34.20	W 103 40 31.41
	11200.00	89.39	1.01	10677.38	985.86	984.66	853.30	0.00	422469.61	703608.26	N 32 9 35.19	W 103 40 31.38
	11300.00	89.39	1.01	10678.45	1085.84	1084.63	855.06	0.00	422569.58	703610.02	N 32 9 36.18	W 103 40 31.36
	11400.00	89.39	1.01	10679.52	1185.82	1184.61	856.81	0.00	422669.56	703611.77	N 32 9 37.17	W 103 40 31.33
	11500.00	89.39	1.01	10680.59	1285.80	1284.59	858.57	0.00	422769.53	703613.53	N 32 9 38.16	W 103 40 31.30
	11600.00	89.39	1.01	10681.66	1385.79	1384.57	860.33	0.00	422869.51	703615.29	N 32 9 39.15	W 103 40 31.27
	11700.00	89.39	1.01	10682.73	1485.77	1484.55	862.09	0.00	422969.48	703617.05	N 32 9 40.14	W 103 40 31.24
	11800.00	89.39	1.01	10683.80	1585.75	1584.53	863.85	0.00	423069.46	703618.81	N 32 9 41.13	W 103 40 31.22
	11900.00	89.39	1.01	10684.87	1685.73	1684.51	865.60	0.00	423169.43	703620.57	N 32 9 42.12	W 103 40 31.19
	12000.00	89.39	1.01	10685.94	1785.71	1784.49	867.36	0.00	423269.40	703622.32	N 32 9 43.10	W 103 40 31.16
	12100.00	89.39	1.01	10687.01	1885.69	1884.47	869.12	0.00	423369.38	703624.08	N 32 9 44.09	W 103 40 31.13
	12200.00	89.39	1.01	10688.08	1985.67	1984.44	870.88	0.00	423469.35	703625.84	N 32 9 45.08	W 103 40 31.11
	12300.00	89.39	1.01	10689.15	2085.65	2084.42	872.64	0.00	423569.33	703627.60	N 32 9 46.07	W 103 40 31.08
	12400.00	89.39	1.01	10690.22	2185.64	2184.40	874.40	0.00	423669.30	703629.36	N 32 9 47.06	W 103 40 31.05
	12500.00	89.39	1.01	10691.29	2285.62	2284.38	876.15	0.00	423769.28	703631.11	N 32 9 48.05	W 103 40 31.02
	12600.00	89.39	1.01	10692.36	2385.60	2384.36	877.91	0.00	423869.25	703632.87	N 32 9 49.04	W 103 40 31.00
	12700.00	89.39	1.01	10693.43	2485.58	2484.34	879.67	0.00	423969.22	703634.63	N 32 9 50.03	W 103 40 30.97
	12800.00	89.39	1.01	10694.50	2585.56	2584.32	881.43	0.00	424069.20	703636.39	N 32 9 51.02	W 103 40 30.94
	12900.00	89.39	1.01	10695.57	2685.54	2684.30	883.19	0.00	424169.17	703638.15	N 32 9 52.01	W 103 40 30.91
	13000.00	89.39	1.01	10696.64	2785.52	2784.27	884.94	0.00	424269.15	703639.90	N 32 9 53.00	W 103 40 30.89
	13100.00	89.39	1.01	10697.71	2885.50	2884.25	886.70	0.00	424369.12	703641.66	N 32 9 53.99	W 103 40 30.86
	13200.00	89.39	1.01	10698.78	2985.49	2984.23	888.46	0.00	424469.10	703643.42	N 32 9 54.98	W 103 40 30.83
	13300.00	89.39	1.01	10699.85	3085.47	3084.21	890.22	0.00	424569.07	703645.18	N 32 9 55.96	W 103 40 30.80
	13400.00	89.39	1.01	10700.92	3185.45	3184.19	891.98	0.00	424669.04	703646.94	N 32 9 56.95	W 103 40 30.78
	13500.00	89.39	1.01	10701.99	3285.43	3284.17	893.74	0.00	424769.02	703648.69	N 32 9 57.94	W 103 40 30.75
	13600.00	89.39	1.01	10703.06	3385.41	3384.15	895.49	0.00	424868.99	703650.45	N 32 9 58.93	W 103 40 30.72
MP, Build & Turn 2°/100ft	13688.03	89.39	1.01	10704.00	3473.42	3472.16	897.04	0.00	424957.00	703652.00	N 32 9 59.80	W 103 40 30.70
	13700.00	89.47	0.78	10704.12	3485.39	3484.13	897.23	2.00	424968.97	703652.19	N 32 9 59.92	W 103 40 30.69
Hold	13762.27	89.88	359.61	10704.48	3547.66	3546.39	897.44	2.00	425031.23	703652.40	N 32 10 0.54	W 103 40 30.69
	13800.00	89.88	359.61	10704.56	3585.39	3584.12	897.18	0.00	425068.96	703652.14	N 32 10 0.91	W 103 40 30.69
	13900.00	89.88	359.61	10704.77	3685.38	3684.12	896.49	0.00	425168.95	703651.45	N 32 10 1.90	W 103 40 30.69
	14000.00	89.88	359.61	10704.99	3785.38	3784.12	895.80	0.00	425268.94	703650.76	N 32 10 2.89	W 103 40 30.69
	14100.00	89.88	359.61	10705.21	3885.38	3884.12	895.11	0.00	425368.94	703650.07	N 32 10 3.88	W 103 40 30.69
	14200.00	89.88	359.61	10705.42	3985.37	3984.11	894.43	0.00	425468.93	703649.38	N 32 10 4.87	W 103 40 30.69
	14300.00	89.88	359.61	10705.64	4085.37	4084.11	893.74	0.00	425568.92	703648.70	N 32 10 5.86	W 103 40 30.69
	14400.00	89.88	359.61	10705.85	4185.37	4184.11	893.05	0.00	425668.92	703648.01	N 32 10 6.85	W 103 40 30.69
	14500.00	89.88	359.61	10706.07	4285.36	4284.10	892.36	0.00	425768.91	703647.32	N 32 10 7.84	W 103 40 30.69
	14600.00	89.88	359.61	10706.29	4385.36	4384.10	891.67	0.00	425868.90	703646.63	N 32 10 8.83	W 103 40 30.69
	14700.00	89.88	359.61	10706.50	4485.35	4484.10	890.98	0.00	425968.89	703645.94	N 32 10 9.82	W 103 40 30.70
	14800.00	89.88	359.61	10706.72	4585.35	4584.10	890.30	0.00	426068.89	703645.26	N 32 10 10.81	W 103 40 30.70
	14900.00	89.88	359.61	10706.93	4685.35	4684.09	889.61	0.00	426168.88	703644.57	N 32 10 11.80	W 103 40 30.70
	15000.00	89.88	359.61	10707.15	4785.34	4784.09	888.92	0.00	426268.87	703643.88	N 32 10 12.79	W 103 40 30.70
	15100.00	89.88	359.61	10707.37	4885.34	4884.09	888.23	0.00	426368.87	703643.19	N 32 10 13.77	W 103 40 30.70
	15200.00	89.88	359.61	10707.58	4985.34	4984.09	887.54	0.00	426468.86	703642.50	N 32 10 14.76	W 103 40 30.70
	15300.00	89.88	359.61	10707.80	5085.33	5084.08	886.85	0.00	426568.85	703641.81	N 32 10 15.75	W 103 40 30.70

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	15400.00	89.88	359.61	10708.01	5185.33	5184.08	886.17	0.00	426668.84	703641.13	N 32 10 16.74	W 103 40 30.70
	15500.00	89.88	359.61	10708.23	5285.33	5284.08	885.48	0.00	426768.84	703640.44	N 32 10 17.73	W 103 40 30.70
	15600.00	89.88	359.61	10708.45	5385.32	5384.08	884.79	0.00	426868.83	703639.75	N 32 10 18.72	W 103 40 30.70
	15700.00	89.88	359.61	10708.66	5485.32	5484.07	884.10	0.00	426968.82	703639.06	N 32 10 19.71	W 103 40 30.70
	15800.00	89.88	359.61	10708.88	5585.31	5584.07	883.41	0.00	427068.82	703638.37	N 32 10 20.70	W 103 40 30.71
	15900.00	89.88	359.61	10709.09	5685.31	5684.07	882.73	0.00	427168.81	703637.68	N 32 10 21.69	W 103 40 30.71
	16000.00	89.88	359.61	10709.31	5785.31	5784.07	882.04	0.00	427268.80	703637.00	N 32 10 22.68	W 103 40 30.71
	16100.00	89.88	359.61	10709.53	5885.30	5884.06	881.35	0.00	427368.79	703636.31	N 32 10 23.67	W 103 40 30.71
	16200.00	89.88	359.61	10709.74	5985.30	5984.06	880.66	0.00	427468.79	703635.62	N 32 10 24.66	W 103 40 30.71
	16300.00	89.88	359.61	10709.96	6085.30	6084.06	879.97	0.00	427568.78	703634.93	N 32 10 25.65	W 103 40 30.71
IFP1, Drop 2°/100ft	16319.22	89.88	359.61	10710.00	6104.52	6103.28	879.84	0.00	427588.00	703634.80	N 32 10 25.84	W 103 40 30.71
Hold	16325.06	89.76	359.61	10710.02	6110.35	6109.11	879.80	2.00	427593.83	703634.76	N 32 10 25.90	W 103 40 30.71
	16400.00	89.76	359.61	10710.33	6185.29	6184.06	879.29	0.00	427668.77	703634.25	N 32 10 26.64	W 103 40 30.71
	16500.00	89.76	359.61	10710.75	6285.29	6284.05	878.61	0.00	427768.76	703633.57	N 32 10 27.63	W 103 40 30.71
	16600.00	89.76	359.61	10711.17	6385.28	6384.05	877.94	0.00	427868.76	703632.89	N 32 10 28.62	W 103 40 30.71
	16700.00	89.76	359.61	10711.59	6485.28	6484.05	877.26	0.00	427968.75	703632.22	N 32 10 29.61	W 103 40 30.71
	16800.00	89.76	359.61	10712.01	6585.28	6584.04	876.58	0.00	428068.74	703631.54	N 32 10 30.60	W 103 40 30.71
	16900.00	89.76	359.61	10712.43	6685.27	6684.04	875.90	0.00	428168.73	703630.86	N 32 10 31.59	W 103 40 30.71
	17000.00	89.76	359.61	10712.85	6785.27	6784.04	875.22	0.00	428268.73	703630.18	N 32 10 32.58	W 103 40 30.72
	17100.00	89.76	359.61	10713.27	6885.26	6884.03	874.54	0.00	428368.72	703629.50	N 32 10 33.57	W 103 40 30.72
	17200.00	89.76	359.61	10713.69	6985.26	6984.03	873.87	0.00	428468.71	703628.83	N 32 10 34.56	W 103 40 30.72
	17300.00	89.76	359.61	10714.11	7085.25	7084.03	873.19	0.00	428568.70	703628.15	N 32 10 35.54	W 103 40 30.72
	17400.00	89.76	359.61	10714.53	7185.25	7184.02	872.51	0.00	428668.69	703627.47	N 32 10 36.53	W 103 40 30.72
	17500.00	89.76	359.61	10714.95	7285.25	7284.02	871.83	0.00	428768.69	703626.79	N 32 10 37.52	W 103 40 30.72
	17600.00	89.76	359.61	10715.37	7385.24	7384.02	871.15	0.00	428868.68	703626.11	N 32 10 38.51	W 103 40 30.72
	17700.00	89.76	359.61	10715.79	7485.24	7484.01	870.47	0.00	428968.67	703625.43	N 32 10 39.50	W 103 40 30.72
	17800.00	89.76	359.61	10716.20	7585.23	7584.01	869.80	0.00	429068.66	703624.76	N 32 10 40.49	W 103 40 30.72
	17900.00	89.76	359.61	10716.62	7685.23	7684.01	869.12	0.00	429168.66	703624.08	N 32 10 41.48	W 103 40 30.72
	18000.00	89.76	359.61	10717.04	7785.22	7784.00	868.44	0.00	429268.65	703623.40	N 32 10 42.47	W 103 40 30.72
	18100.00	89.76	359.61	10717.46	7885.22	7884.00	867.76	0.00	429368.64	703622.72	N 32 10 43.46	W 103 40 30.72
	18200.00	89.76	359.61	10717.88	7985.22	7984.00	867.08	0.00	429468.63	703622.04	N 32 10 44.45	W 103 40 30.72
	18300.00	89.76	359.61	10718.30	8085.21	8083.99	866.40	0.00	429568.62	703621.36	N 32 10 45.44	W 103 40 30.73
	18400.00	89.76	359.61	10718.72	8185.21	8183.99	865.73	0.00	429668.62	703620.69	N 32 10 46.43	W 103 40 30.73
	18500.00	89.76	359.61	10719.14	8285.20	8283.99	865.05	0.00	429768.61	703620.01	N 32 10 47.42	W 103 40 30.73
	18600.00	89.76	359.61	10719.56	8385.20	8383.99	864.37	0.00	429868.60	703619.33	N 32 10 48.41	W 103 40 30.73
	18700.00	89.76	359.61	10719.98	8485.19	8483.98	863.69	0.00	429968.59	703618.65	N 32 10 49.40	W 103 40 30.73
	18800.00	89.76	359.61	10720.40	8585.19	8583.98	863.01	0.00	430068.59	703617.97	N 32 10 50.39	W 103 40 30.73
LTP Cross	*18868.42*	*89.76*	*359.61*	*10720.69*	*8653.61*	*8652.40*	*862.55*	*0.00*	*430137.00*	*703617.51*	*N 32 10 51.07*	*W 103 40 30.73*
	18900.00	89.76	359.61	10720.82	8685.19	8683.98	862.33	0.00	430168.58	703617.29	N 32 10 51.38	W 103 40 30.73
CO Viper 4 33 Fed No. 402H - PBHL	18943.43	89.76	359.61	10721.00	8728.61	8727.40	862.04	0.00	430212.00	703617.00	N 32 10 51.81	W 103 40 30.73

Survey Type: Non-Def Plan

Survey Error Model: ISCWSA Rev 3 *** 3-D 97.071% Confidence 3.0000 sigma
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 Type	Borehole / Survey
	1	0.000	30.000	1/100.000	30.000	30.000		B001Mb_MWD+HRGM-Depth Only	CO Viper 4 33 Fed No. 402H / Chevron CO Viper 4 33 Fed No. 402H Rev0 CVS 04Jun20
	1	30.000	18943.426	1/100.000	30.000	30.000		B001Mb_MWD+HRGM	CO Viper 4 33 Fed No. 402H / Chevron CO Viper 4 33 Fed No.

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

Drilling Plan Data Report
02/03/2022

APD ID: 10400061416
Submission Date: 02/03/2021
Operator Name: CHEVRON USA INCORPORATED
Well Name: CO VIPER 4 33 FED
Well Number: 402H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
855077	RUSTLER	3474	779	779	DOLOMITE	NONE	N
855079	SALADO	2346	1128	1128	HALITE, SALT	NONE	N
855080	CASTILE	-498	3972	3988	SANDSTONE	NONE	N
855081	LAMAR	-1202	4676	4692	SANDSTONE	NONE	N
855083	BELL CANYON	-1250	4724	4740	SANDSTONE	NONE	N
855084	CHERRY CANYON	-2124	5598	5614	SANDSTONE	NONE	N
855088	BRUSHY CANYON	-3466	6940	6956	SANDSTONE	NONE	N
1543166	BONE SPRING	-5092	8566	8582	LIMESTONE	NATURAL GAS, OIL	Y
1543167	AVALON SAND	-5173	8647	8663	LIMESTONE, SHALE	NATURAL GAS, OIL	Y
7015113	BONE SPRING 1ST	-6145	9619	9635	SANDSTONE	NATURAL GAS, OIL	Y
7015114	BONE SPRING 2ND	-6751	10225	18948	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M
Rating Depth: 10730

Equipment: Chevron will have a minimum of a 5,000 psi rig stack for drill out below surface casing. The stack will be tested as specified in the attached testing requirements. Batch drilling of the surface, intermediate, and production will take place. A full BOP test will be performed per hole section, unless approval from BLM is received otherwise. Flex choke hose will be used for all wells on the pad (see attached specs and variance). BOP test will be conducted by a third party.
Requesting Variance? YES

Variance request: Chevron 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

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. 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 dog house 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

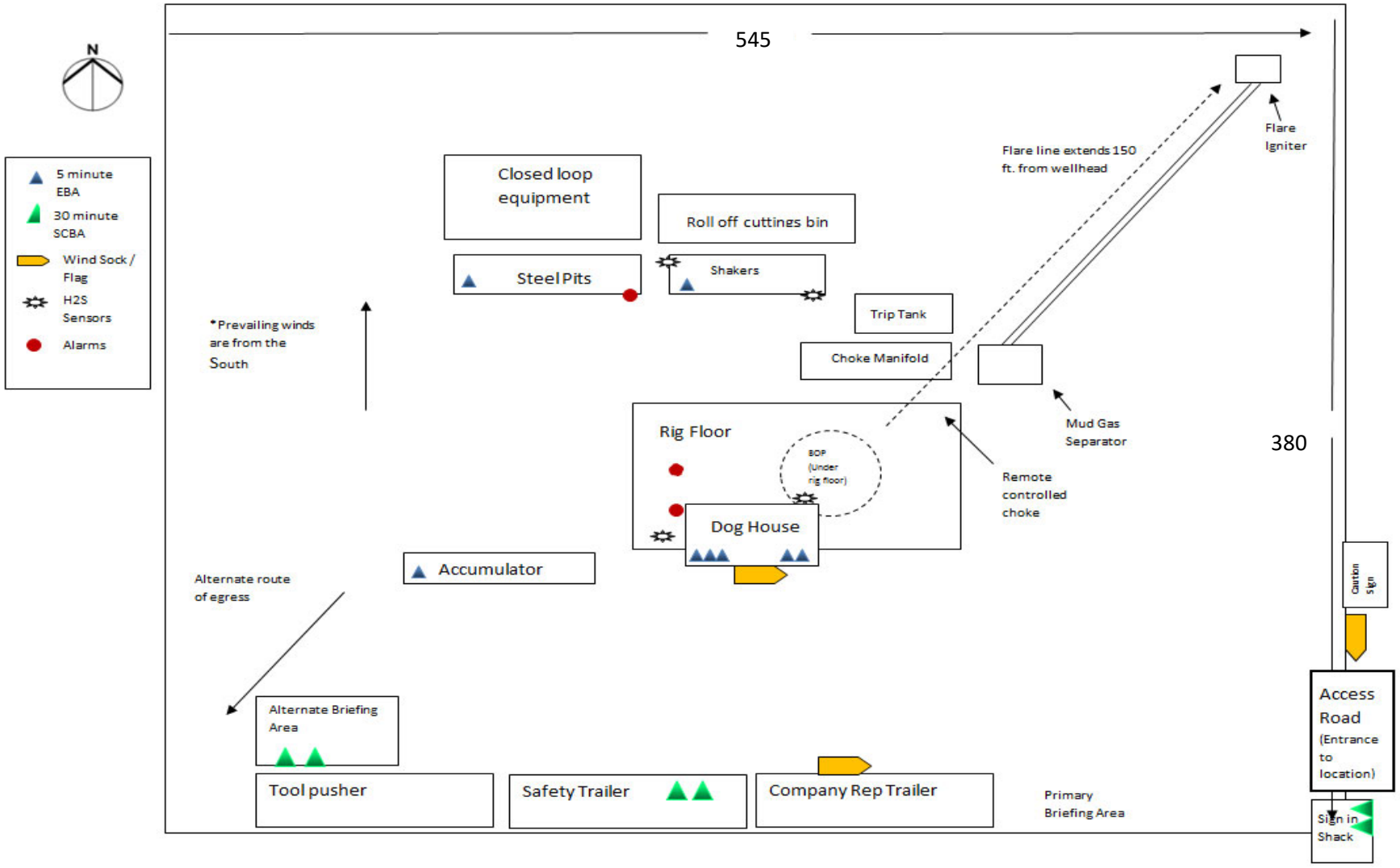
In the event of drilling, completions, workover and well servicing operations involving a hydrogen sulfide concentration of 100 ppm or greater the following shall be considered:

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

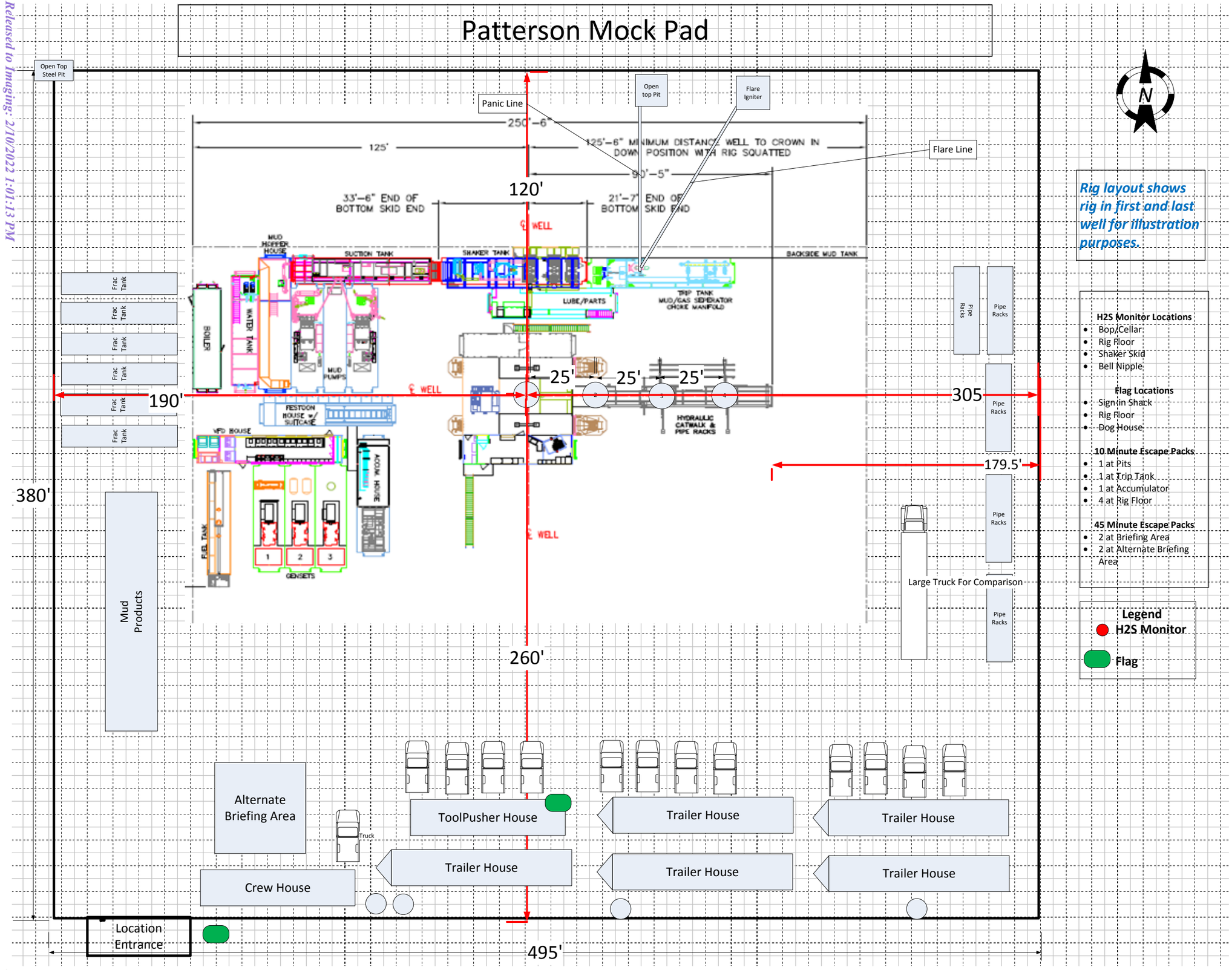
Public Safety - Emergency Assistance

Agency	Telephone Number
Eddy County Sheriff's Department	575-887-7551
Carlsbad Fire Department	575-885-3125
Carlsbad Medical Center	575-887-4100
Eddy County Emergency Management	575-885-3581
Poison Control Center	800-222-1222

H_2S Preparedness and Contingency Plan Summary



Patterson Mock Pad



Rig layout shows rig in first and last well for illustration purposes.

H2S Monitor Locations
- Bop/Cellar
- Rig Floor
- Shaker Skid
- Bell Nipple

Flag Locations
- Sign in Shack
- Rig Floor
- Dog House

10 Minute Escape Packs
- 1 at Pits
- 1 at Trip Tank
- 1 at Accumulator
- 4 at Rig Floor

45 Minute Escape Packs
- 2 at Briefing Area
- 2 at Alternate Briefing Area

Legend
- **H2S Monitor**
- **Flag**

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

Drilling Plan Data Report
02/03/2022

APD ID: 10400061416
Submission Date: 02/03/2021
Operator Name: CHEVRON USA INCORPORATED
Well Name: CO VIPER 4 33 FED
Well Number: 402H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
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BLOWOUT PREVENTER SCHEMATIC

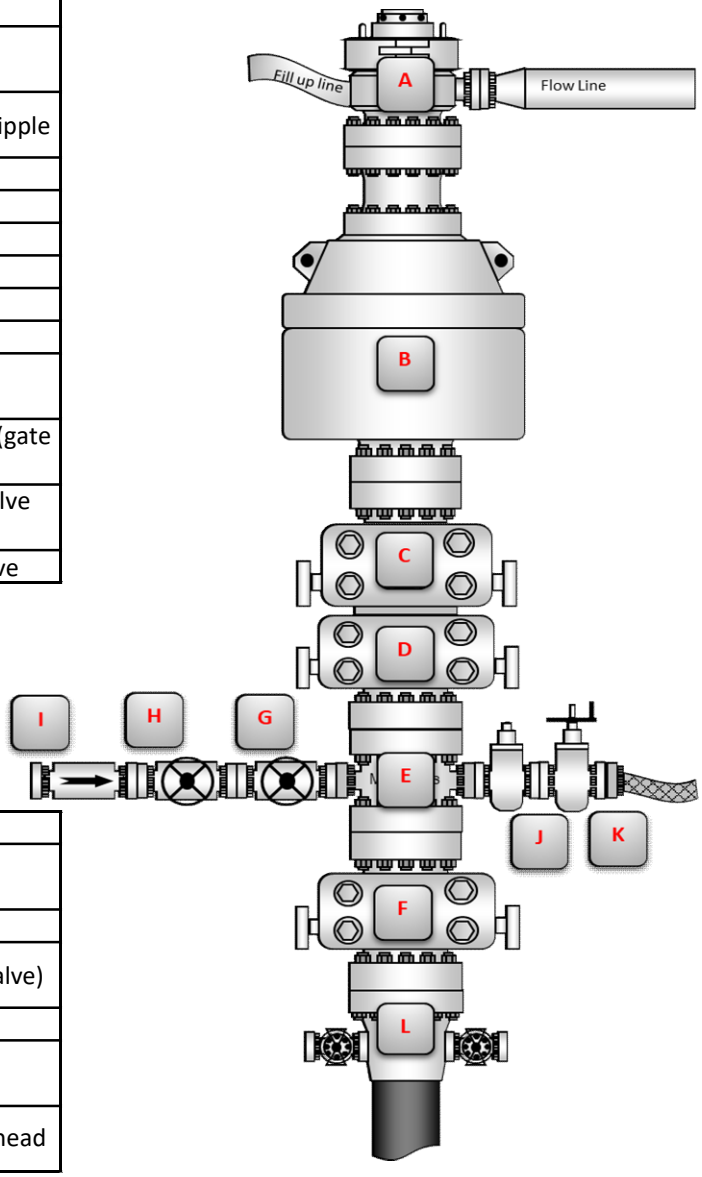
Operation:	Intermediate & Production Drilling Operations
Minimum System operation pressure	5,000 psi

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"	10,000	Blind Ram
D	13-5/8"	10,000	Pipe Ram
E	13-5/8"	10,000	Mud Cross
F	13-5/8"	10,000	Pipe Ram

Kill Line

Part	Size	Pressure Rating	Description
G	2"	10,000	Inside Kill Line Valve (gate valve)
H	2"	10,000	Outside Kill Line Valve (gate valve)
I	2"	10,000	Kill Line Check valve



Choke line

Part	Size	Pressure Rating	Description
J	3"	10,000	HCR (gate valve)
K	3"	10,000	Manual HCR (gate valve)

Wellhead

Part	Size	Pressure Rating	Description
L	13-5/8"	5,000	FMC Multibowl 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.
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.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 79589

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 79589
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	2/10/2022
pkautz	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	2/10/2022
pkautz	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	2/10/2022
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	2/10/2022