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.
NMNM15433

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.
CB AMILYN 10 3 FED COM P13
402H

2. Name of Operator
CHEVRON USA INCORPORATED

9. API Well No. 30-015-54560

3a. Address	3b. Phone No. *(include area code)*	10. Field and Pool, or Exploratory
P O BOX 1635, HOUSTON, TX 77251	(661) 654-7256	PURPLE SAGE/WOLFCAMP (GAS)

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface NENW / 418 FNL / 1614 FWL / LAT 32.311543 / LONG -104.078693
At proposed prod. zone LOT 4 / 25 FNL / 1260 FWL / LAT 32.341853 / LONG -104.079792

11. Sec., T. R. M. or Blk. and Survey or Area
SEC 15/T23S/R28E/NMP

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

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
418 feet		640.0
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**
500 feet	9580 feet / 20206 feet	FED:

21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
3000 feet	11/23/2022	147 days

24. Attachments

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

1. Well plat certified by a registered surveyor.
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
(Electronic Submission)	CAROL ADLER / Ph: (432) 687-7866	07/06/2022

Title
Sr Regulatory Affairs Coordinator

Approved by *(Signature)*	Name *(Printed/Typed)*	Date
(Electronic Submission)	CODY LAYTON / Ph: (575) 234-5959	11/28/2023

Title	Office
Assistant Field Manager Lands & Minerals	Carlsbad Field Office

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

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

APPROVED WITH CONDITIONS
Approval Date: 11/28/2023

(Continued on page 2)
*(Instructions on page 2)

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
30-015-54560	98220	PURPLE SAGE; WOLFCAMP (GAS)

4 Property Code	5 Property Name	6 Well Number
335081	CB AMILYN 10 3 FED COM P13	402H

7 OGRID No.	8 Operator Name	9 Elevation
4323	CHEVRON U.S.A. INC.	3000'

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
C	15	23 SOUTH	28 EAST, N.M.P.M.		418'	NORTH	1614'	WEST	EDDY

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
D	3	23 SOUTH	28 EAST, N.M.P.M.		25'	NORTH	1260'	WEST	EDDY

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
640	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

PROPOSED LAST TAKE POINT
X = 578,455' (NAD27 NM E)
Y = 487,826'
LAT. 32.340894° N (NAD27)
LONG. 104.079306° W
X = 619,637' (NAD83/86 NM E)
Y = 487,886'
LAT. 32.341015° N (NAD83/86)
LONG. 104.079802° W

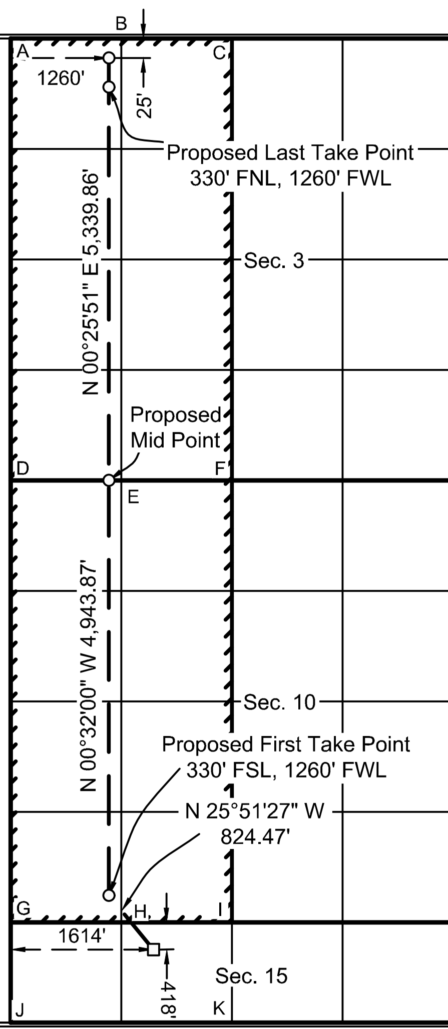
PROPOSED MID POINT
X = 578,417' (NAD27 NM E)
Y = 482,792'
LAT. 32.327055° N (NAD27)
LONG. 104.079467° W
X = 619,599' (NAD83/86 NM E)
Y = 482,851'
LAT. 32.327175° N (NAD83/86)
LONG. 104.079963° W

PROPOSED FIRST TAKE POINT
X = 578,463' (NAD27 NM E)
Y = 477,848'
LAT. 32.313465° N (NAD27)
LONG. 104.079356° W
X = 619,645' (NAD83/86 NM E)
Y = 477,907'
LAT. 32.313585° N (NAD83/86)
LONG. 104.079851° W

PROPOSED BOTTOM HOLE LOCATION
X = 578,457' (NAD27 NM E)
Y = 488,131'
LAT. 32.341733° N (NAD27)
LONG. 104.079296° W
X = 619,639' (NAD83/86 NM E)
Y = 488,191'
LAT. 32.341853° N (NAD83/86)
LONG. 104.079792° W

CORNER COORDINATES TABLE (NAD 27)
A - Y=488148.82, X=577197.00
B - Y=488156.72, X=578536.87
C - Y=488164.62, X=579876.75
D - Y=482771.59, X=577156.91
E - Y=482792.65, X=578487.26
F - Y=482813.72, X=579817.60
G - Y=477496.90, X=577205.98
H - Y=477519.13, X=578540.48
I - Y=477541.37, X=579874.98
J - Y=476168.14, X=577212.69
K - Y=476212.10, X=579878.70

CB AMILYN 10 3 FED COM P13 402H WELL
X = 578,822' (NAD27 NM E)
Y = 477,106'
LAT. 32.311423° N (NAD27)
LONG. 104.078198° W
X = 620,005' (NAD83/86 NM E)
Y = 477,165'
LAT. 32.311543° N (NAD83/86)
LONG. 104.078693° W
ELEV. +3000' (NAVD88)



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.

Carol Adler 06/01/2022
Signature Date

Carol Ad;er
Printed Name

caroladler@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.

03/24/2022
Date of Survey

Signature and Seal of Professional Surveyor:

ROBERT L. LASTRAPES
NEW MEXICO
23006
PROFESSIONAL SURVEYOR

Certificate Number

State of New Mexico
Energy, Minerals and Natural Resources Department

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

Submit Electronically
Via E-permitting

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Chevron USA **OGRID:** 4323 **Date:** 03 / 21 / 22

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
CB AMILYN 10 3 FED COM P13 401H	*Pending*	UL:C, Sec 15, T23S-R28E	418'FNL, 1589' FWL	1314 BBL/D	2831 MCF/D	4478 BBL/D
CB AMILYN 10 3 FED COM P13 402H	*Pending*	UL:C, Sec 15, T23S-R28E	418' FNL, 1614' FWL	1314 BBL/D	2831 MCF/D	4478 BBL/D
CB AMILYN 10 3 FED COM P13 403H	*Pending*	UL:C, Sec 15, T23S-R28E	418' FNL, 1639' FWL	1314 BBL/D	2831 MCF/D	4478 BBL/D

IV. Central Delivery Point Name: Culebra Bluff CTB Sec.15 [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
CB AMILYN 10 3 FED COM P13 401H	*Pending*	October 2023	N/A	N/A	N/A	N/A
CB AMILYN 10 3 FED COM P13 402H	*Pending*	October 2023	N/A	N/A	N/A	N/A
CB AMILYN 10 3 FED COM P13 403H	*Pending*	October 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: Carol Adler
Printed Name: Carol Adler
Title: Sr. Regulatory Affairs Coordinator
E-mail Address: caroladler@chevron.com
Date: 3/23/2022
Phone: (432) 687-7148

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: CB AMILYN 10 3 FED COM P13 **Well Number:** 402H

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 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 requests to use high pressure flex hoses for all wells on the pad. Spec sheets attached to APD.

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. 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 IPT SureTec Digital BOP Testing equipment and software. In the event the IPT system is unavailable, the standard test chart will be used.Test Test Time Test Pressure Criteria Additional CriteriaLow 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.IPT SureTec software will be used by knowledgeable personnel for BOP pressure testing. The software will be operated per IPT requirements and will not be used beyond the explicitly intended purpose.

Choke Diagram Attachment:

5K_BOPE_Choke_Schematic_Testing_Procedures_20220705104351.pdf

BLM_5M_Choke_Manifold_Diagram_20220705104810.pdf

BOP Diagram Attachment:

NM_Slim_Hole_Wellhead_6650_psi_UH_S_20220705104635.pdf

BLM_5M_Annular_10M_Rams_Stackup_and_Test_Plan_20220705104836.pdf

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Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	300	0	300	3000	2700	300	J-55	54.5	BUTT	2.13	1.43	BUOY	2.09	BUOY	3.46
2	INTERMEDIATE	12.25	9.5	NEW	API	N	0	2573	0	2558	3000	442	2573	L-80	40	BUTT	1.24	1.64	BUOY	3.16	BUOY	3.26
3	INTERMEDIATE	8.75	7.0	NEW	API	N	0	8923	0	8898	3000	-5898	8923	P-110	29	OTHER - BLUE	1.63	1.15	BUOY	2.3	BUOY	2.3
4	PRODUCTION	6.125	5.0	NEW	API	N	8623	9523	8373	9448	-5373	-6448	900	P-110	18	OTHER - W513	1.39	1.1	BUOY	1.63	BUOY	2.54

Operator Name: CHEVRON USA INCORPORATED

Well Name: CB AMILYN 10 3 FED COM P13 **Well Number:** 402H

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
5	PRODUCTION	6.125	4.5	NEW	API	N	9523	20206	9448	9579	-6448	-6579	10683	P-110	11.6	OTHER - W521	1.39	1.1	BUOY	1.63	BUOY	2.54

Casing Attachments

Casing ID: 1 **String** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

13.375_casing_spec_sheet_20220705123154.pdf

Casing ID: 2 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

9.625_40.0lb_L80IC_BTC_20220705123326.pdf

Operator Name: CHEVRON USA INCORPORATED

Well Name: CB AMILYN 10 3 FED COM P13 **Well Number:** 402H

Casing Attachments

Casing ID: 3 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

7in_Blue_vs_BlueSD_20220705123528.pdf

Casing ID: 4 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

5in_Tenaris_Collapse_13470_20220705124742.pdf

Casing ID: 5 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Section 4 - Cement

Operator Name: CHEVRON USA INCORPORATED

Well Name: CB AMILYN 10 3 FED COM P13 **Well Number:** 402H

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	NONE	NONE
SURFACE	Tail		0	300	196	1.33	14.8	261	25	CLASS C	EXTENDER, ANTIFOAM, RETARDER, VISCOSIFER
INTERMEDIATE	Lead		0	1573	247	2.49	11.5	261	25	CLASS C	EXTENDER, ANTIFOAM, RETARDER, VISCOSIFER
INTERMEDIATE	Tail		1573	2573	323	1.33	13.6	429	25	CLASS C	EXTENDER, ANTIFOAM, RETARDER, VISCOSIFER
INTERMEDIATE	Lead		0	7923	642	2.2	11.5	1413	25	CLASS C	EXTENDER, ANTIFOAM, RETARDER, VISCOSIFER
INTERMEDIATE	Tail		7923	8923	134	1.4	14.5	188	25	CLASS C	EXTENDER, ANTIFOAM, RETARDER, VISCOSIFER
PRODUCTION	Lead		8723	20206	824	1.64	13.2	1352	25	CLASS H	EXTENDER, ANTIFOAM, RETARDER, VISCOSIFER

PRODUCTION	Lead		8723	20206	824	1.64	13.2	1352	25	CLASS H	EXTENDER, ANTIFOAM, RETARDER, VISCOSIFER

Operator Name: CHEVRON USA INCORPORATED

Well Name: CB AMILYN 10 3 FED COM P13 **Well Number:** 402H

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: A weighting agent and lost circulating material (LCM) will be onsite to mitigate pressure or lost circulation as hole conditions dictate. Type If an open reserve pit is not approved by OCD, a closed system will be used consisting of above ground steel tanks and all wastes accumulated during drilling operations will be contained in a portable trash cage and removed from location and deposited in an approved sanitary landfill. If an open reserve pit is in place, pit construction, operation, and closure will follow all applicable rules and regulation. Sanitary wastes will be contained in a chemical porta-toilet and then hauled to an approved sanitary landfill. All fluids and cuttings will be disposed of in accordance with New Mexico Oil Conservation Division rules and regulations. And transporting of E&P waste will follow EPA regulations and accompanying manifests.

Describe the mud monitoring system utilized: A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH. Visual mud monitoring equipment shall be in place to detect volume changes indicating loss or gain of circulating fluid volume. When abnormal pressures are anticipated -- a pit volume totalizer (PVT), stroke counter, and flow sensor will be used to detect volume changes indicating loss or gain of circulating fluid volume.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	300	SPUD MUD	8.9	9.1							FILTRATE: 15-25
300	2573	SALT SATURATED	8.9	10.5							Saturated brine would be used through salt sections. FILTRATE: 15-25
2573	8923	OTHER : WBM/BRINE	8.7	9.6							FILTRATE: 15-25
8923	20206	OIL-BASED MUD	9	12.2							-Due to wellbore instability in the lateral, may exceed the MWweight window needed to maintain overburden stresses FILTRATE: 5-10

Operator Name: CHEVRON USA INCORPORATED

Well Name: CB AMILYN 10 3 FED COM P13 **Well Number:** 402H

Section 6 - Test, Logging, Coring

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

A. PRODUCTION TESTS ARE NOT PLANNED
B. LOGS RUN INCLUDE: GAMMA RAY LOG; DIRECTIONA SURVEY
C. CORING OPERATIONS ARE NOT PLANNED

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

GAMMA RAY LOG,DIRECTIONAL SURVEY,

Coring operation description for the well:

CORING OPERATIONS ARE NOT PLANNED

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 6077 **Anticipated Surface Pressure:** 3969

Anticipated Bottom Hole Temperature(F): 165

Anticipated abnormal pressures, temperatures, or potential geologic hazards? YES

Describe:

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

Contingency Plans geoharzards 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

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

H2S_Contingency_Plan_20220705134236.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

CB_AMILYN_10_3_FED_COM_13_402H_DP_20220705134820.pdf

DefPlan100ft_CBAmilyn103FedComP13402H_R0_20220705134827.pdf

SpiderPlot_ChevronCBAmilynSec103Pad13_20220705135157.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Operational_Best_Management_Practices_20220705134855.pdf

Culebra_Bluff_Pad_13_Gas_Management_Plan___NMOCD_20220705134934.pdf

Rig_Layout_20220411150452_20220705134949.pdf

Surface_Rig___20220705134956.pdf

Other Variance attachment:

Operator Name: CHEVRON USA INCORPORATED

Well Name: CB AMILYN 10 3 FED COM P13 **Well Number:** 402H

Schlumberger

CB Amilyn 10 3 Fed Com P13 402H R0 mdv 29Mar22 Proposal Geodetic Report

(Def Plan)

Chevron

Report Date:	March 30, 2022 - 02:01 PM	**Survey / DLS Computation:**	Minimum Curvature / Lubinski
Client:	Chevron	**Vertical Section Azimuth:**	359.970 ° (Grid North)
Field:	NM, Eddy County (NAD 27 EZ)	**Vertical Section Origin:**	0.000 ft, 0.000 ft
Structure / Slot:	Chevron CB Amilyn Sec 10 3 Pad 13 / 402H	**TVD Reference Datum:**	RKB = 28ft
Well:	CB Amilyn 10 3 Fed Com P13 402H	**TVD Reference Elevation:**	3028.000 ft above MSL
Borehole:	CB Amilyn 10 3 Fed Com P13 402H	**Seabed / Ground Elevation:**	3000.000 ft above MSL
UWI / API#:	Unknown / Unknown	**Magnetic Declination:**	6.840 °
Survey Name:	CB Amilyn 10 3 Fed Com P13 402H R0 mdv 29Mar22	**Total Gravity Field Strength:**	998.4789mgn (9.80665 Based)
Survey Date:	March 29, 2022	**Gravity Model:**	GARM
Tort / AHD / DDI / ERD Ratio:	106.915 ° / 11248.997 ft / 6.404 / 1.174	**Total Magnetic Field Strength:**	47609.075 nT
Coordinate Reference System:	NAD27 New Mexico State Plane, Eastern Zone, US Feet	**Magnetic Dip Angle:**	59.969 °
Location Lat / Long:	N 32° 18' 41.12226", W 104° 4' 41.51546"	**Declination Date:**	March 29, 2022
Location Grid N/E Y/X:	N 477106.000 ftUS, E 578822.000 ftUS	**Magnetic Declination Model:**	HDGM 2022
CRS Grid Convergence Angle:	0.1364 °	**North Reference:**	Grid North
Grid Scale Factor:	0.99991621	**Grid Convergence Used:**	0.1364 °
Version / Patch:	2.10.829.1	**Total Corr Mag North->Grid North:**	6.7040 °
		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	477106.00	578822.00	N 32 18 41.12	W 104 4 41.52
	100.00	0.00	295.62	100.00	0.00	0.00	0.00	0.00	477106.00	578822.00	N 32 18 41.12	W 104 4 41.52
	200.00	0.00	295.62	200.00	0.00	0.00	0.00	0.00	477106.00	578822.00	N 32 18 41.12	W 104 4 41.52
	300.00	0.00	295.62	300.00	0.00	0.00	0.00	0.00	477106.00	578822.00	N 32 18 41.12	W 104 4 41.52
Salado (SLDO)	*328.00*	*0.00*	*295.62*	*328.00*	*0.00*	*0.00*	*0.00*	*0.00*	*477106.00*	*578822.00*	*N 32 18 41.12*	*W 104 4 41.52*
	400.00	0.00	295.62	400.00	0.00	0.00	0.00	0.00	477106.00	578822.00	N 32 18 41.12	W 104 4 41.52
	500.00	0.00	295.62	500.00	0.00	0.00	0.00	0.00	477106.00	578822.00	N 32 18 41.12	W 104 4 41.52
	600.00	0.00	295.62	600.00	0.00	0.00	0.00	0.00	477106.00	578822.00	N 32 18 41.12	W 104 4 41.52
Build 1.5°/100ft	700.00	0.00	295.62	700.00	0.00	0.00	0.00	0.00	477106.00	578822.00	N 32 18 41.12	W 104 4 41.52
	800.00	1.50	295.62	799.99	0.57	0.57	-1.18	1.50	477106.57	578820.82	N 32 18 41.13	W 104 4 41.53
	900.00	3.00	295.62	899.91	2.27	2.26	-4.72	1.50	477108.26	578817.28	N 32 18 41.14	W 104 4 41.57
Castile (CSTL)	*953.19*	*3.80*	*295.62*	*953.00*	*3.63*	*3.63*	*-7.56*	*1.50*	*477109.63*	*578814.44*	*N 32 18 41.16*	*W 104 4 41.60*
	1000.00	4.50	295.62	999.69	5.10	5.09	-10.62	1.50	477111.09	578811.38	N 32 18 41.17	W 104 4 41.64
	1100.00	6.00	295.62	1099.27	9.06	9.05	-18.87	1.50	477115.05	578803.13	N 32 18 41.21	W 104 4 41.74
	1200.00	7.50	295.62	1198.57	14.14	14.13	-29.47	1.50	477120.13	578792.54	N 32 18 41.26	W 104 4 41.86
Hold	1233.20	8.00	295.62	1231.47	16.08	16.06	-33.50	1.50	477122.06	578788.50	N 32 18 41.28	W 104 4 41.91
	1300.00	8.00	295.62	1297.62	20.10	20.08	-41.88	0.00	477126.08	578780.12	N 32 18 41.32	W 104 4 42.00
	1400.00	8.00	295.62	1396.65	26.13	26.10	-54.43	0.00	477132.10	578767.58	N 32 18 41.38	W 104 4 42.15
	1500.00	8.00	295.62	1495.67	32.15	32.11	-66.98	0.00	477138.11	578755.03	N 32 18 41.44	W 104 4 42.29
	1600.00	8.00	295.62	1594.70	38.17	38.13	-79.52	0.00	477144.13	578742.49	N 32 18 41.50	W 104 4 42.44
	1700.00	8.00	295.62	1693.73	44.19	44.15	-92.07	0.00	477150.14	578729.94	N 32 18 41.56	W 104 4 42.59
	1800.00	8.00	295.62	1792.76	50.22	50.16	-104.61	0.00	477156.16	578717.40	N 32 18 41.62	W 104 4 42.73
	1900.00	8.00	295.62	1891.78	56.24	56.18	-117.16	0.00	477162.17	578704.85	N 32 18 41.68	W 104 4 42.88
	2000.00	8.00	295.62	1990.81	62.26	62.19	-129.71	0.00	477168.19	578692.31	N 32 18 41.74	W 104 4 43.03
	2100.00	8.00	295.62	2089.84	68.28	68.21	-142.25	0.00	477174.20	578679.76	N 32 18 41.80	W 104 4 43.17
	2200.00	8.00	295.62	2188.87	74.31	74.23	-154.80	0.00	477180.22	578667.22	N 32 18 41.86	W 104 4 43.32
	2300.00	8.00	295.62	2287.89	80.33	80.24	-167.34	0.00	477186.24	578654.67	N 32 18 41.92	W 104 4 43.46
	2400.00	8.00	295.62	2386.92	86.35	86.26	-179.89	0.00	477192.25	578642.13	N 32 18 41.98	W 104 4 43.61
	2500.00	8.00	295.62	2485.95	92.37	92.27	-192.44	0.00	477198.27	578629.58	N 32 18 42.04	W 104 4 43.76
Lamar (LMAR)	*2572.76*	*8.00*	*295.62*	*2558.00*	*96.76*	*96.65*	*-201.56*	*0.00*	*477202.64*	*578620.45*	*N 32 18 42.08*	*W 104 4 43.86*
	2600.00	8.00	295.62	2584.98	98.40	98.29	-204.98	0.00	477204.28	578617.04	N 32 18 42.10	W 104 4 43.90
Bell Canyon (BLCN)	*2616.18*	*8.00*	*295.62*	*2601.00*	*99.37*	*99.26*	*-207.01*	*0.00*	*477205.25*	*578615.00*	*N 32 18 42.11*	*W 104 4 43.92*
	2700.00	8.00	295.62	2684.00	104.42	104.31	-217.53	0.00	477210.30	578604.49	N 32 18 42.16	W 104 4 44.05
	2800.00	8.00	295.62	2783.03	110.44	110.32	-230.07	0.00	477216.31	578591.94	N 32 18 42.22	W 104 4 44.19
	2900.00	8.00	295.62	2882.06	116.46	116.34	-242.62	0.00	477222.33	578579.40	N 32 18 42.28	W 104 4 44.34
	3000.00	8.00	295.62	2981.08	122.49	122.35	-255.17	0.00	477228.34	578566.85	N 32 18 42.34	W 104 4 44.49
	3100.00	8.00	295.62	3080.11	128.51	128.37	-267.71	0.00	477234.36	578554.31	N 32 18 42.40	W 104 4 44.63
	3200.00	8.00	295.62	3179.14	134.53	134.38	-280.26	0.00	477240.37	578541.76	N 32 18 42.46	W 104 4 44.78
Drop .75°/100ft	3251.30	8.00	295.62	3229.94	137.62	137.47	-286.70	0.00	477243.46	578535.33	N 32 18 42.49	W 104 4 44.85
	3300.00	7.63	295.62	3278.19	140.49	140.33	-292.67	0.75	477246.32	578529.36	N 32 18 42.52	W 104 4 44.92
	3400.00	6.88	295.62	3377.39	145.96	145.80	-304.06	0.75	477251.78	578517.97	N 32 18 42.57	W 104 4 45.05
Cherry Canyon (CRCN)	*3460.02*	*6.43*	*295.62*	*3437.00*	*148.97*	*148.81*	*-310.33*	*0.75*	*477254.79*	*578511.69*	*N 32 18 42.60*	*W 104 4 45.13*
	3500.00	6.13	295.62	3476.74	150.86	150.70	-314.28	0.75	477256.68	578507.75	N 32 18 42.62	W 104 4 45.17
	3600.00	5.38	295.62	3576.24	155.20	155.03	-323.32	0.75	477261.02	578498.70	N 32 18 42.66	W 104 4 45.28
	3700.00	4.63	295.62	3675.85	158.98	158.81	-331.19	0.75	477264.79	578490.83	N 32 18 42.70	W 104 4 45.37
	3800.00	3.88	295.62	3775.58	162.20	162.02	-337.89	0.75	477268.00	578484.14	N 32 18 42.73	W 104 4 45.45
	3900.00	3.13	295.62	3875.39	164.84	164.66	-343.41	0.75	477270.65	578478.62	N 32 18 42.76	W 104 4 45.51
	4000.00	2.38	295.62	3975.27	166.93	166.74	-347.74	0.75	477272.73	578474.29	N 32 18 42.78	W 104 4 45.56
	4100.00	1.63	295.62	4075.21	168.44	168.26	-350.90	0.75	477274.24	578471.13	N 32 18 42.80	W 104 4 45.60
	4200.00	0.88	295.62	4175.18	169.39	169.21	-352.88	0.75	477275.19	578469.15	N 32 18 42.80	W 104 4 45.62
	4300.00	0.13	295.62	4275.18	169.78	169.59	-353.68	0.75	477275.58	578468.35	N 32 18 42.81	W 104 4 45.63
Hold Vertical	4317.70	0.00	295.62	4292.88	169.79	169.60	-353.70	0.75	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	4400.00	0.00	295.62	4375.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	4500.00	0.00	295.62	4475.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
Brushy Canyon (BCN)	*4510.82*	*0.00*	*295.62*	*4486.00*	*169.79*	*169.60*	*-353.70*	*0.00*	*477275.59*	*578468.33*	*N 32 18 42.81*	*W 104 4 45.63*
	4600.00	0.00	295.62	4575.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	4700.00	0.00	295.62	4675.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	4800.00	0.00	295.62	4775.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	4900.00	0.00	295.62	4875.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	5000.00	0.00	295.62	4975.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	5100.00	0.00	295.62	5075.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	5200.00	0.00	295.62	5175.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	5300.00	0.00	295.62	5275.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	5400.00	0.00	295.62	5375.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	5500.00	0.00	295.62	5475.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	5600.00	0.00	295.62	5575.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	5700.00	0.00	295.62	5675.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	5800.00	0.00	295.62	5775.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	5900.00	0.00	295.62	5875.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	6000.00	0.00	295.62	5975.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	6100.00	0.00	295.62	6075.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
Bone Spring Lime (BSGL)	*6169.82*	*0.00*	*295.62*	*6145.00*	*169.79*	*169.60*	*-353.70*	*0.00*	*477275.59*	*578468.33*	*N 32 18 42.81*	*W 104 4 45.63*
	6200.00	0.00	295.62	6175.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
Avalon Upper (AVU)	*6244.82*	*0.00*	*295.62*	*6220.00*	*169.79*	*169.60*	*-353.70*	*0.00*	*477275.59*	*578468.33*	*N 32 18 42.81*	*W 104 4 45.63*
	6300.00	0.00	295.62	6275.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	6400.00	0.00	295.62	6375.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	6500.00	0.00	295.62	6475.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	6600.00	0.00	295.62	6575.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	6700.00	0.00	295.62	6675.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
Avalon Lower (AVL)	*6710.82*	*0.00*	*295.62*	*6686.00*	*169.79*	*169.60*	*-353.70*	*0.00*	*477275.59*	*578468.33*	*N 32 18 42.81*	*W 104 4 45.63*

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	0.00	295.62	6775.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	6900.00	0.00	295.62	6875.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	7000.00	0.00	295.62	6975.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	7100.00	0.00	295.62	7075.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	7200.00	0.00	295.62	7175.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
First Bone Spring (FBS)	*7206.82*	*0.00*	*295.62*	*7182.00*	*169.79*	*169.60*	*-353.70*	*0.00*	*477275.59*	*578468.33*	*N 32 18 42.81*	*W 104 4 45.63*
	7300.00	0.00	295.62	7275.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
First Bone Spring Shale (FBS_SH)	*7342.82*	*0.00*	*295.62*	*7318.00*	*169.79*	*169.60*	*-353.70*	*0.00*	*477275.59*	*578468.33*	*N 32 18 42.81*	*W 104 4 45.63*
	7400.00	0.00	295.62	7375.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	7500.00	0.00	295.62	7475.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	7600.00	0.00	295.62	7575.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	7700.00	0.00	295.62	7675.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
Second Bone Spring Upper (SBU)	*7712.82*	*0.00*	*295.62*	*7688.00*	*169.79*	*169.60*	*-353.70*	*0.00*	*477275.59*	*578468.33*	*N 32 18 42.81*	*W 104 4 45.63*
	7800.00	0.00	295.62	7775.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	7900.00	0.00	295.62	7875.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	8000.00	0.00	295.62	7975.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	8100.00	0.00	295.62	8075.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	8200.00	0.00	295.62	8175.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
Second Bone Spring Lower (SBL)	*8258.82*	*0.00*	*295.62*	*8234.00*	*169.79*	*169.60*	*-353.70*	*0.00*	*477275.59*	*578468.33*	*N 32 18 42.81*	*W 104 4 45.63*
	8300.00	0.00	295.62	8275.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	8400.00	0.00	295.62	8375.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	8500.00	0.00	295.62	8475.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	8600.00	0.00	295.62	8575.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	8700.00	0.00	295.62	8675.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	8800.00	0.00	295.62	8775.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	8900.00	0.00	295.62	8875.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
Third Bone First Carbonate (TB1C)	*8922.82*	*0.00*	*295.62*	*8898.00*	*169.79*	*169.60*	*-353.70*	*0.00*	*477275.59*	*578468.33*	*N 32 18 42.81*	*W 104 4 45.63*
	9000.00	0.00	295.62	8975.18	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
Build 10°/100ft	9022.70	0.00	295.62	8997.88	169.79	169.60	-353.70	0.00	477275.59	578468.33	N 32 18 42.81	W 104 4 45.63
	9100.00	7.73	359.47	9074.95	174.99	174.81	-353.75	10.00	477280.79	578468.28	N 32 18 42.86	W 104 4 45.63
Third Bone Spring	*9112.18*	*8.95*	*359.47*	*9087.00*	*176.76*	*176.57*	*-353.76*	*10.00*	*477282.56*	*578468.27*	*N 32 18 42.88*	*W 104 4 45.63*
	9200.00	17.73	359.47	9172.36	197.00	196.81	-353.95	10.00	477302.80	578468.08	N 32 18 43.08	W 104 4 45.63
	9300.00	27.73	359.47	9264.48	235.59	235.40	-354.31	10.00	477341.38	578467.72	N 32 18 43.46	W 104 4 45.64
	9400.00	37.73	359.47	9348.50	289.58	289.40	-354.81	10.00	477395.37	578467.22	N 32 18 43.99	W 104 4 45.64
	9500.00	47.73	359.47	9421.86	357.35	357.16	-355.45	10.00	477463.13	578466.59	N 32 18 44.66	W 104 4 45.65
Wolfcamp A	*9507.70*	*48.50*	*359.47*	*9427.00*	*363.08*	*362.90*	*-355.50*	*10.00*	*477468.86*	*578466.53*	*N 32 18 44.72*	*W 104 4 45.65*
	9600.00	57.73	359.47	9482.34	436.82	436.64	-356.18	10.00	477542.60	578465.85	N 32 18 45.45	W 104 4 45.65
	9700.00	67.73	359.47	9528.10	525.59	525.41	-357.01	10.00	477631.36	578465.02	N 32 18 46.33	W 104 4 45.66
	9800.00	77.73	359.47	9557.75	620.96	620.77	-357.90	10.00	477726.72	578464.13	N 32 18 47.27	W 104 4 45.67
	9900.00	87.73	359.47	9570.39	720.03	719.84	-358.82	10.00	477825.78	578463.21	N 32 18 48.25	W 104 4 45.68
Landing Point	9922.22	89.95	359.47	9570.84	742.24	742.05	-359.03	10.00	477847.99	578463.00	N 32 18 48.47	W 104 4 45.68
FTP Cross	*9922.27*	*89.95*	*359.47*	*9570.84*	*742.29*	*742.10*	*-359.03*	*0.00*	*477848.04*	*578463.00*	*N 32 18 48.47*	*W 104 4 45.68*
	10000.00	89.95	359.47	9570.90	820.02	819.83	-359.75	0.00	477925.76	578462.28	N 32 18 49.24	W 104 4 45.68
	10100.00	89.95	359.47	9570.99	920.01	919.83	-360.68	0.00	478025.75	578461.35	N 32 18 50.23	W 104 4 45.69
	10200.00	89.95	359.47	9571.07	1020.01	1019.82	-361.61	0.00	478125.73	578460.42	N 32 18 51.22	W 104 4 45.70
	10300.00	89.95	359.47	9571.16	1120.01	1119.82	-362.54	0.00	478225.72	578459.49	N 32 18 52.21	W 104 4 45.71
	10400.00	89.95	359.47	9571.24	1220.00	1219.81	-363.47	0.00	478325.71	578458.56	N 32 18 53.20	W 104 4 45.72
	10500.00	89.95	359.47	9571.32	1320.00	1319.81	-364.40	0.00	478425.69	578457.63	N 32 18 54.19	W 104 4 45.72
	10600.00	89.95	359.47	9571.41	1419.99	1419.80	-365.33	0.00	478525.68	578456.70	N 32 18 55.18	W 104 4 45.73
	10700.00	89.95	359.47	9571.49	1519.99	1519.80	-366.26	0.00	478625.67	578455.77	N 32 18 56.17	W 104 4 45.74
	10800.00	89.95	359.47	9571.58	1619.99	1619.79	-367.19	0.00	478725.66	578454.84	N 32 18 57.16	W 104 4 45.75
	10900.00	89.95	359.47	9571.66	1719.98	1719.79	-368.12	0.00	478825.64	578453.91	N 32 18 58.15	W 104 4 45.76
	11000.00	89.95	359.47	9571.74	1819.98	1819.79	-369.06	0.00	478925.63	578452.98	N 32 18 59.14	W 104 4 45.77
	11100.00	89.95	359.47	9571.83	1919.97	1919.78	-369.99	0.00	479025.62	578452.05	N 32 19 0.13	W 104 4 45.77
	11200.00	89.95	359.47	9571.91	2019.97	2019.78	-370.92	0.00	479125.60	578451.12	N 32 19 1.12	W 104 4 45.78
	11300.00	89.95	359.47	9572.00	2119.97	2119.77	-371.85	0.00	479225.59	578450.19	N 32 19 2.11	W 104 4 45.79
	11400.00	89.95	359.47	9572.08	2219.96	2219.77	-372.78	0.00	479325.58	578449.26	N 32 19 3.10	W 104 4 45.80
	11500.00	89.95	359.47	9572.17	2319.96	2319.76	-373.71	0.00	479425.57	578448.32	N 32 19 4.09	W 104 4 45.81
	11600.00	89.95	359.47	9572.25	2419.96	2419.76	-374.64	0.00	479525.55	578447.39	N 32 19 5.08	W 104 4 45.81
	11700.00	89.95	359.47	9572.33	2519.95	2519.76	-375.57	0.00	479625.54	578446.46	N 32 19 6.06	W 104 4 45.82
	11800.00	89.95	359.47	9572.42	2619.95	2619.75	-376.50	0.00	479725.53	578445.53	N 32 19 7.05	W 104 4 45.83
	11900.00	89.95	359.47	9572.50	2719.94	2719.75	-377.43	0.00	479825.51	578444.60	N 32 19 8.04	W 104 4 45.84
	12000.00	89.95	359.47	9572.59	2819.94	2819.74	-378.36	0.00	479925.50	578443.67	N 32 19 9.03	W 104 4 45.85
	12100.00	89.95	359.47	9572.67	2919.94	2919.74	-379.29	0.00	480025.49	578442.74	N 32 19 10.02	W 104 4 45.85
	12200.00	89.95	359.47	9572.76	3019.93	3019.73	-380.22	0.00	480125.47	578441.81	N 32 19 11.01	W 104 4 45.86
	12300.00	89.95	359.47	9572.84	3119.93	3119.73	-381.15	0.00	480225.46	578440.88	N 32 19 12.00	W 104 4 45.87
	12400.00	89.95	359.47	9572.92	3219.92	3219.72	-382.08	0.00	480325.45	578439.95	N 32 19 12.99	W 104 4 45.88
	12500.00	89.95	359.47	9573.01	3319.92	3319.72	-383.01	0.00	480425.44	578439.02	N 32 19 13.98	W 104 4 45.89
	12600.00	89.95	359.47	9573.09	3419.92	3419.72	-383.94	0.00	480525.42	578438.09	N 32 19 14.97	W 104 4 45.89
	12700.00	89.95	359.47	9573.18	3519.91	3519.71	-384.87	0.00	480625.41	578437.16	N 32 19 15.96	W 104 4 45.90
	12800.00	89.95	359.47	9573.26	3619.91	3619.71	-385.80	0.00	480725.40	578436.23	N 32 19 16.95	W 104 4 45.91
	12900.00	89.95	359.47	9573.34	3719.90	3719.70	-386.73	0.00	480825.38	578435.30	N 32 19 17.94	W 104 4 45.92
	13000.00	89.95	359.47	9573.43	3819.90	3819.70	-387.66	0.00	480925.37	578434.37	N 32 19 18.93	W 104 4 45.93
	13100.00	89.95	359.47	9573.51	3919.90	3919.69	-388.59	0.00	481025.36	578433.44	N 32 19 19.92	W 104 4 45.93
	13200.00	89.95	359.47	9573.60	4019.89	4019.69	-389.53	0.00	481125.34	578432.51	N 32 19 20.91	W 104 4 45.94
	13300.00	89.95	359.47	9573.68	4119.89	4119.69	-390.46	0.00	481225.33	578431.58	N 32 19 21.90	W 104 4 45.95
	13400.00	89.95	359.47	9573.77	4219.89	4219.68	-391.39	0.00	481325.32	578430.65	N 32 19 22.89	W 104 4 45.96
	13500.00	89.95	359.47	9573.85	4319.88	4319.68	-392.32	0.00	481425.31	578429.72	N 32 19 23.88	W 104 4 45.97
	13600.00	89.95	359.47	9573.93	4419.88	4419.67	-393.25	0.00	481525.29	578428.79	N 32 19 24.87	W 104 4 45.98
	13700.00	89.95	359.47	9574.02	4519.87	4519.67	-394.18	0.00	481625.28	578427.86	N 32 19 25.85	W 104 4 45.98
	13800.00	89.95	359.47	9574.10	4619.87	4619.66	-395.11	0.00	481725.27	578426.93	N 32 19 26.84	W 104 4 45.99
	13900.00	89.95	359.47	9574.19	4719.87	4719.66	-396.04	0.00	481825.25	578426.00	N 32 19 27.83	W 104 4 46.00
	14000.00	89.95	359.47	9574.27	4819.86	4819.65	-396.97	0.00	481925.24	578425.07	N 32 19 28.82	W 104 4 46.01
	14100.00	89.95	359.47	9574.35	4919.86	4919.65	-397.90	0.00	482025.23	578424.13	N 32 19 29.81	W 104 4 46.02
	14200.00	89.95	359.47	9574.44	5019.85	5019.65	-398.83	0.00	482125.22	578423.20	N 32 19 30.80	W 104 4 46.02
	14300.00	89.95	359.47	9574.52	5119.85	5119.64	-399.76	0.00	482225.20	578422.27	N 32 19 31.79	W 104 4 46.03
	14400.00	89.95	359.47	9574.61	5219.85	5219.64	-400.69	0.00	482325.19	578421.34	N 32 19 32.78	W 104 4 46.04
	14500.00	89.95	359.47	9574.69	5319.84	5319.63	-401.62	0.00	482425.18	578420.41	N 32 19 33.77	W 104 4 46.05
	14600.00	89.95	359.47	9574.78	5419.84	5419.63	-402.55	0.00	482525.16	578419.48	N 32 19 34.76	W 104 4 46.06
	14700.00	89.95	359.47	9574.86	5519.83	5519.62	-403.48	0.00	482625.15	578418.55	N 32 19 35.75	W 104 4 46.06
	14800.00	89.95	359.47	9574.94	5619.83	5619.62	-404.41	0.00	482725.14	578417.62	N 32 19 36.74	W 104 4 46.07
MP, Turn 2°/100ft	14866.87	89.95	359.47	9575.00	5686.70	5686.49	-405.03	0.00	482792.00	578417.00	N 32 19 37.40	W 104 4 46.08
	14900.00	89.95	0.13	9575.03	5719.83	5719.62	-405.15	2.00	482825.13	578416.88	N 32 19 37.73	W 104 4 46.08
Hold	14915.21	89.95	0.43	9575.04	5735.04	5734.83	-405.08	2.00	482840.33	578416.96	N 32 19 37.88	W 104 4 46.08
	15000.00	89.95	0.43	9575.12	5819.82	5819.61	-404.43	0.00	482925.11	578417.60	N 32 19 38.72	W 104 4 46.07
	15100.00	89.95	0.43	9575.21	5919.82	5919.61	-403.68	0.00	483025.10	578418.36	N 32 19 39.71	W 104 4 46.06
	15200.00	89.95	0.43	9575.29	6019.82	6019.61	-402.92	0.00	483125.09	578419.11	N 32 19 40.70	W 104 4 46.04
	15300.00	89.95	0.43	9575.38	6119.82	6119.61	-402.16	0.00	483225.08	578419.87	N 32 19 41.69	W 104 4 46.03
	15400.00	89.95	0.43	9575.47	6219.81	6219.60	-401.41	0.00	483325.07	578420.63	N 32 19 42.68	W 104 4 46.02
	15500.00	89.95	0.43	9575.56	6319.81	6319.60	-400.65	0.00	483425.06	578421.38	N 32 19 43.67	W 104 4 46.01
	15600.00	89.95	0.43	9575.65	6419.81	6419.60	-399.89	0.00	483525.05	578422.14	N 32 19 44.66	W 104 4 46.00
	15700.00	89.95	0.43	9575.74	6519.80	6519.59	-399.14	0.00	483625.03	578422.90	N 32 19 45.64	W 104 4 45.99
	15800.00	89.95	0.43	9575.83	6619.80	6619.59	-398.38	0.00	483725.02	578423.65	N 32 19 46.63	W 104 4 45.97
	15900.00	89.95	0.43	9575.91	6719.80	6719.59	-397.62	0.00	483825.01	578424.41	N 32 19 47.62	W 104 4 45.96
	16000.00	89.95	0.43	9576.00	6819.79	6819.59	-396.87	0.00	483925.00	578425.17	N 32 19 48.61	W 104 4 45.95
	16100.00	89.95	0.43	9576.09	6919.79	6919.58	-396.11	0.00	484024.99	578425.92	N 32 19 49.60	W 104 4 45.94
	16200.00	89.95	0.43	9576.18	7019.79	7019.58	-395.35	0.00	484124.98	578426.68	N 32 19 50.59	W 104 4 45.93

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 ° ' ")
	16300.00	89.95	0.43	9576.27	7119.78	7119.58	-394.60	0.00	484224.97	578427.44	N 32 19 51.58	W 104 4 45.92
	16400.00	89.95	0.43	9576.36	7219.78	7219.57	-393.84	0.00	484324.95	578428.19	N 32 19 52.57	W 104 4 45.90
	16500.00	89.95	0.43	9576.45	7319.78	7319.57	-393.08	0.00	484424.94	578428.95	N 32 19 53.56	W 104 4 45.89
	16600.00	89.95	0.43	9576.53	7419.77	7419.57	-392.33	0.00	484524.93	578429.71	N 32 19 54.55	W 104 4 45.88
	16700.00	89.95	0.43	9576.62	7519.77	7519.56	-391.57	0.00	484624.92	578430.46	N 32 19 55.54	W 104 4 45.87
	16800.00	89.95	0.43	9576.71	7619.77	7619.56	-390.81	0.00	484724.91	578431.22	N 32 19 56.53	W 104 4 45.86
	16900.00	89.95	0.43	9576.80	7719.76	7719.56	-390.06	0.00	484824.90	578431.98	N 32 19 57.52	W 104 4 45.85
	17000.00	89.95	0.43	9576.89	7819.76	7819.56	-389.30	0.00	484924.89	578432.73	N 32 19 58.51	W 104 4 45.84
	17100.00	89.95	0.43	9576.98	7919.76	7919.55	-388.54	0.00	485024.87	578433.49	N 32 19 59.50	W 104 4 45.82
	17200.00	89.95	0.43	9577.07	8019.75	8019.55	-387.78	0.00	485124.86	578434.25	N 32 20 0.49	W 104 4 45.81
	17300.00	89.95	0.43	9577.15	8119.75	8119.55	-387.03	0.00	485224.85	578435.01	N 32 20 1.48	W 104 4 45.80
	17400.00	89.95	0.43	9577.24	8219.75	8219.54	-386.27	0.00	485324.84	578435.76	N 32 20 2.47	W 104 4 45.79
	17500.00	89.95	0.43	9577.33	8319.74	8319.54	-385.51	0.00	485424.83	578436.52	N 32 20 3.46	W 104 4 45.78
	17600.00	89.95	0.43	9577.42	8419.74	8419.54	-384.76	0.00	485524.82	578437.28	N 32 20 4.44	W 104 4 45.77
	17700.00	89.95	0.43	9577.51	8519.74	8519.54	-384.00	0.00	485624.80	578438.03	N 32 20 5.43	W 104 4 45.75
	17800.00	89.95	0.43	9577.60	8619.73	8619.53	-383.24	0.00	485724.79	578438.79	N 32 20 6.42	W 104 4 45.74
	17900.00	89.95	0.43	9577.69	8719.73	8719.53	-382.49	0.00	485824.78	578439.55	N 32 20 7.41	W 104 4 45.73
	18000.00	89.95	0.43	9577.77	8819.73	8819.53	-381.73	0.00	485924.77	578440.30	N 32 20 8.40	W 104 4 45.72
	18100.00	89.95	0.43	9577.86	8919.72	8919.52	-380.97	0.00	486024.76	578441.06	N 32 20 9.39	W 104 4 45.71
	18200.00	89.95	0.43	9577.95	9019.72	9019.52	-380.22	0.00	486124.75	578441.82	N 32 20 10.38	W 104 4 45.70
	18300.00	89.95	0.43	9578.04	9119.72	9119.52	-379.46	0.00	486224.74	578442.57	N 32 20 11.37	W 104 4 45.68
	18400.00	89.95	0.43	9578.13	9219.71	9219.52	-378.70	0.00	486324.72	578443.33	N 32 20 12.36	W 104 4 45.67
	18500.00	89.95	0.43	9578.22	9319.71	9319.51	-377.95	0.00	486424.71	578444.09	N 32 20 13.35	W 104 4 45.66
	18600.00	89.95	0.43	9578.31	9419.71	9419.51	-377.19	0.00	486524.70	578444.84	N 32 20 14.34	W 104 4 45.65
	18700.00	89.95	0.43	9578.40	9519.70	9519.51	-376.43	0.00	486624.69	578445.60	N 32 20 15.33	W 104 4 45.64
	18800.00	89.95	0.43	9578.48	9619.70	9619.50	-375.68	0.00	486724.68	578446.36	N 32 20 16.32	W 104 4 45.63
	18900.00	89.95	0.43	9578.57	9719.70	9719.50	-374.92	0.00	486824.67	578447.11	N 32 20 17.31	W 104 4 45.62
	19000.00	89.95	0.43	9578.66	9819.69	9819.50	-374.16	0.00	486924.66	578447.87	N 32 20 18.30	W 104 4 45.60
	19100.00	89.95	0.43	9578.75	9919.69	9919.50	-373.41	0.00	487024.64	578448.63	N 32 20 19.29	W 104 4 45.59
	19200.00	89.95	0.43	9578.84	10019.69	10019.49	-372.65	0.00	487124.63	578449.38	N 32 20 20.28	W 104 4 45.58
	19300.00	89.95	0.43	9578.93	10119.68	10119.49	-371.89	0.00	487224.62	578450.14	N 32 20 21.27	W 104 4 45.57
	19400.00	89.95	0.43	9579.02	10219.68	10219.49	-371.13	0.00	487324.61	578450.90	N 32 20 22.26	W 104 4 45.56
	19500.00	89.95	0.43	9579.10	10319.68	10319.48	-370.38	0.00	487424.60	578451.65	N 32 20 23.25	W 104 4 45.55
	19600.00	89.95	0.43	9579.19	10419.67	10419.48	-369.62	0.00	487524.59	578452.41	N 32 20 24.23	W 104 4 45.53
	19700.00	89.95	0.43	9579.28	10519.67	10519.48	-368.86	0.00	487624.58	578453.17	N 32 20 25.22	W 104 4 45.52
	19800.00	89.95	0.43	9579.37	10619.67	10619.47	-368.11	0.00	487724.56	578453.92	N 32 20 26.21	W 104 4 45.51
	19900.00	89.95	0.43	9579.46	10719.66	10719.47	-367.35	0.00	487824.55	578454.68	N 32 20 27.20	W 104 4 45.50
LTP Cross	*19901.53*	*89.95*	*0.43*	*9579.46*	*10721.19*	*10721.00*	*-367.34*	*0.00*	*487826.08*	*578454.69*	*N 32 20 27.22*	*W 104 4 45.50*
	20000.00	89.95	0.43	9579.55	10819.66	10819.47	-366.59	0.00	487924.54	578455.44	N 32 20 28.19	W 104 4 45.49
	20100.00	89.95	0.43	9579.64	10919.66	10919.47	-365.84	0.00	488024.53	578456.19	N 32 20 29.18	W 104 4 45.48
	20200.00	89.95	0.43	9579.72	11019.65	11019.46	-365.08	0.00	488124.52	578456.95	N 32 20 30.17	W 104 4 45.46
CB Amilyn 10 3 Fed Com P13 402H BHL	20206.48	89.95	0.43	9579.73	11026.14	11025.95	-365.03	0.00	488131.00	578457.00	N 32 20 30.24	W 104 4 45.46

Survey Type: 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	28.000	1/100.000	30.000	30.000		B001Mb_MWD+HRGM-Depth Only	CB Amilyn 10 3 Fed Com P13 402H / CB Amilyn 10 3 Fed Com P13 402H R0 mdv 29Mar22
	1	28.000	20206.483	1/100.000	30.000	30.000		B001Mb_MWD+HRGM	CB Amilyn 10 3 Fed Com P13 402H / CB Amilyn 10 3 Fed Com

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**Chevron**
LEASE NO.:	NMNM15433
LOCATION:	Section 15, T.23 S, R.28 E., NMPM
COUNTY:	Eddy County, New Mexico
WELL NAME & NO.:	CB Amilyn 10 3 Fed Com P13 402H
SURFACE HOLE FOOTAGE:	418'/N & 1614'/W
BOTTOM HOLE FOOTAGE:	25'/N & 1260'/W

COA

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

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware Group** formation. As a result, the Hydrogen Sulfide area must meet all requirements from **43 CFR 3176**, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **300** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

   a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type of temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:
    - Cement to surface. If cement does not circulate see B.1.a, c-d above.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.

- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

3. The minimum required fill of cement behind the **7** inch production casing is:
    - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.

4. The minimum required fill of cement behind the**5 x 4-1/2** inch production liner is:
    - Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).

2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.

Approval Date: 11/28/2023

c. Manufacturer representative shall install the test plug for the initial BOP test.
d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in **43 CFR 3171 and 3172**.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

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

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.

Approval Date: 11/28/2023

- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per must meet all requirements from **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

GENERAL REQUIREMENTS

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

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

☒ Eddy County
Email **or** call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, **BLM_NM_CFO_DrillingNotifications@BLM.GOV**
(575) 361-2822

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

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

   a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
   b. When the operator proposes to set surface casing with Spudder Rig
      - Notify the BLM when moving in and removing the Spudder Rig.
      - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
      - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.

2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

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

A. CASING

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

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

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

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

6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a

larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.

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

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

   a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
   b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
   c. Manufacturer representative shall install the test plug for the initial BOP test.
   d. Whenever any seal subject to test pressure is broken, all the tests in **43 CFR part 3170 Subpart 3172** must be followed.
   e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

    a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

    b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

    c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

    d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

    e. The results of the test shall be reported to the appropriate BLM office.

    f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior the test at full stack pressure.

h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR part 3170 Subpart 3172**.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

ZS 7/18/2023

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.

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

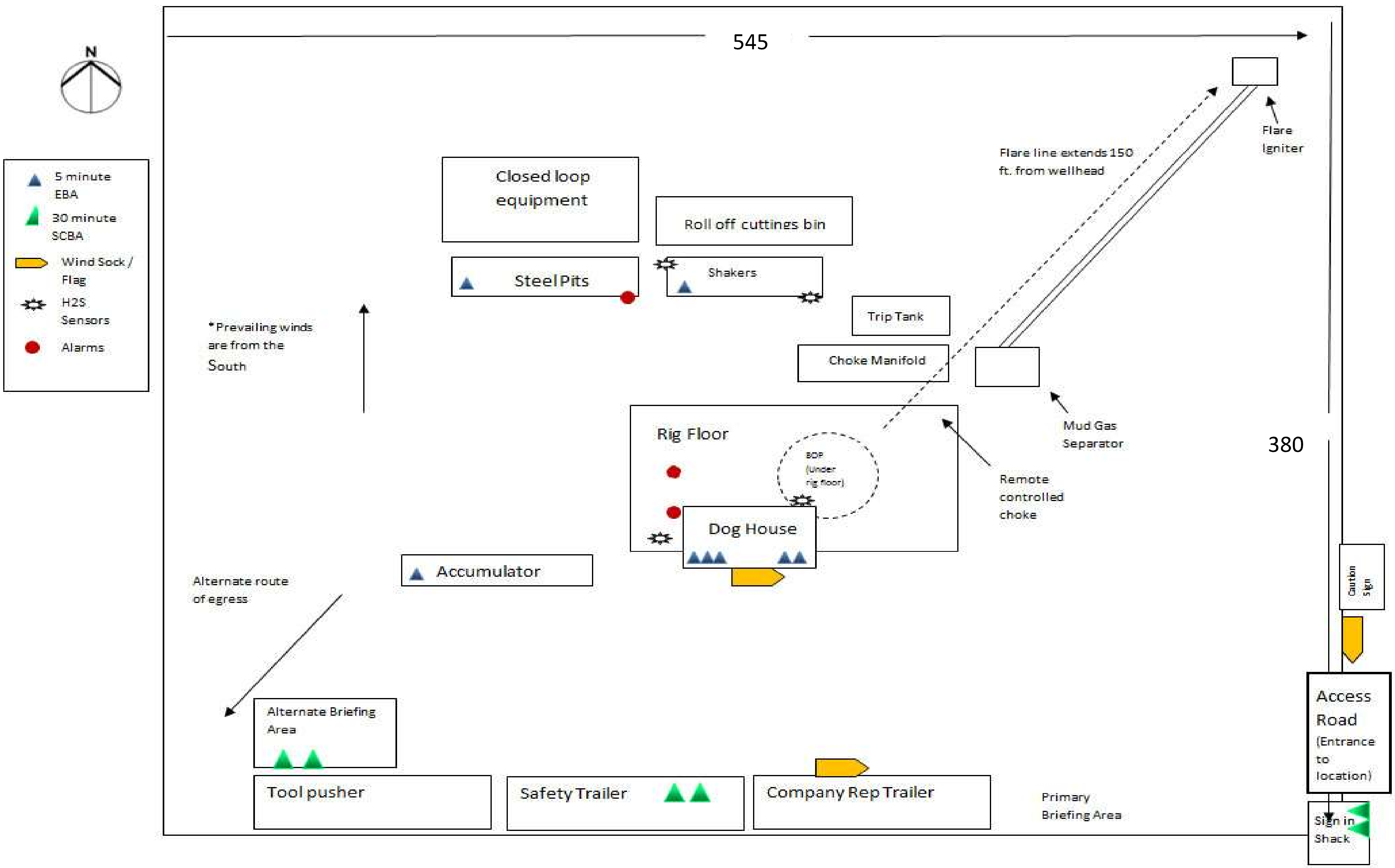
In the event of drilling, completions, workover and well servicing operations involving a hydrogen sulfide concentration of 100 ppm or greater the following shall be considered:

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

Public Safety - Emergency Assistance

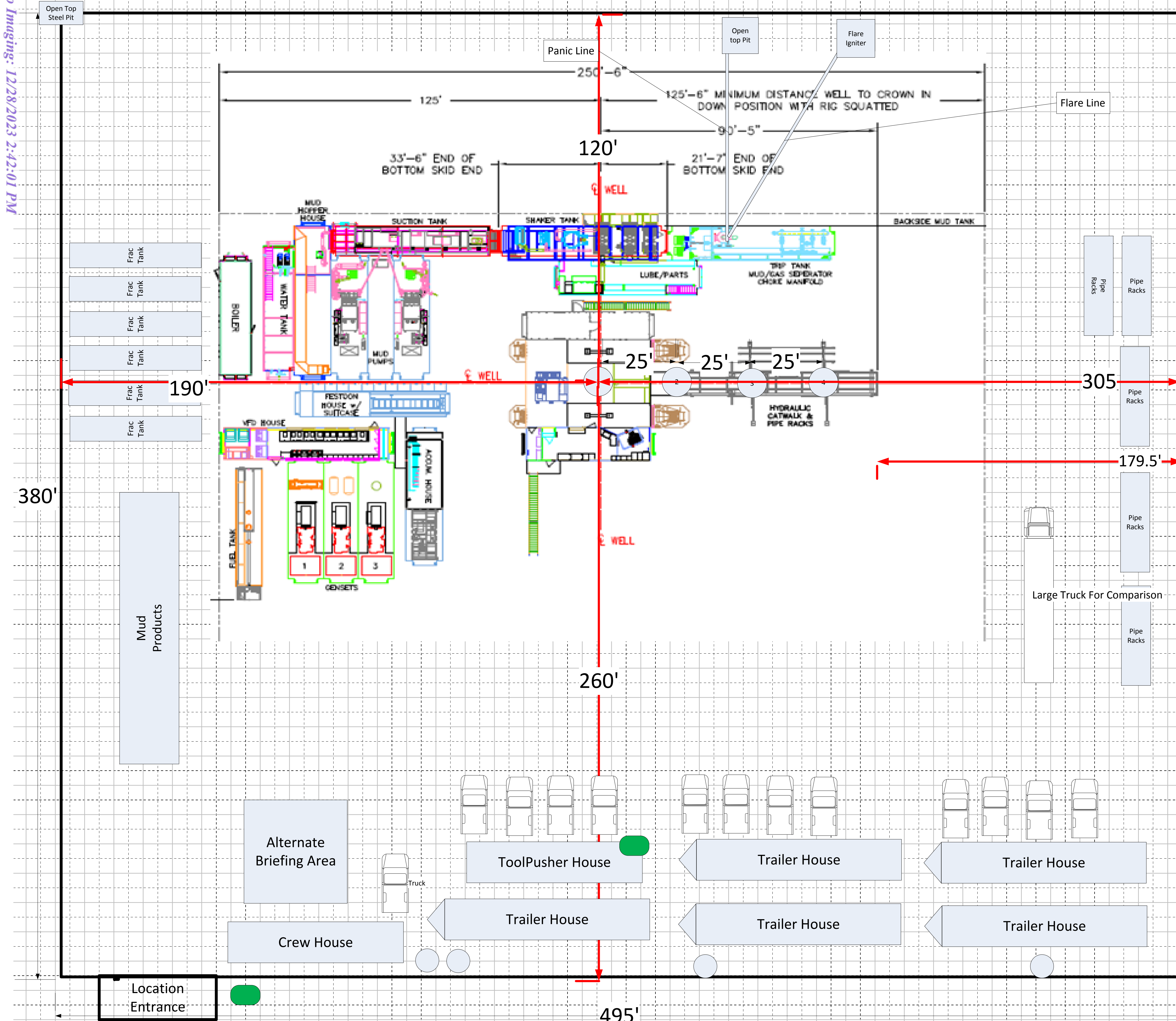
Agency	Telephone Number
Eddy County Sheriff’s Department	575-887-7551
Carlsbad Fire Department	575-885-3125
Carlsbad Medical Center	575-887-4100
Eddy County Emergency Management	575-885-3581
Poison Control Center	800-222-1222

H_2S Preparedness and Contingency Plan Summary



Received by OCD: 11/30/2023 1:42:30 PM

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

Intent [ ] As Drilled [ ]

API #

Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

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

First Take Point (FTP)

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

Last Take Point (LTP)

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

Is this well the defining well for the Horizontal Spacing Unit? [ ]

Is this well an infill well? [ ]

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

API #

Operator Name:	Property Name:	Well Number

KZ 06/29/2018

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

Drilling Plan Data Report

11/29/2023

APD ID: 10400086528 **Submission Date:** 07/06/2022

Operator Name: CHEVRON USA INCORPORATED

Well Name: CB AMILYN 10 3 FED COM P13 **Well Number:** 402H

Well Type: CONVENTIONAL GAS 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	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
12520908	SALADO	0	328	328	ANHYDRITE, SALT	NONE	N
12520909	CASTILE	-953	953	953	ANHYDRITE, SALT	NONE	N
12520910	LAMAR	-2558	2558	2573	LIMESTONE, SHALE	NONE	N
12520911	BELL CANYON	-2601	2601	2616	LIMESTONE, SANDSTONE	NONE	N
12520912	CHERRY CANYON	-3437	3437	3460	LIMESTONE, SANDSTONE, SILTSTONE	NONE	N
12520913	BRUSHY CANYON	-4486	4486	4511	LIMESTONE, SANDSTONE, SHALE	NONE	N
12520914	BONE SPRING LIME	-6145	6145	6170	SHALE, SILTSTONE	NONE	N
12520915	AVALON SAND	-6220	6220	6245	SHALE	NONE	N
12520916	BONE SPRING 1ST	-7182	7182	7207	SANDSTONE, SHALE	NONE	N
12520917	BONE SPRING 2ND	-7688	7688	7713	SANDSTONE, SHALE	NATURAL GAS, OIL	N
12520918	BONE SPRING 3RD	-9087	9087	9112	SANDSTONE, SHALE	NATURAL GAS, OIL	N
12520919	WOLFCAMP	-9427	9427	9508	SANDSTONE, SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M **Rating Depth:** 9580

Equipment: Chevron will have a minimum of a 5,000 psi rig stack (see proposed schematic) for drill out below surface casing.

Requesting Variance? YES

Variance request: Chevron request to vary 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

BLOWOUT PREVENTOR SCHEMATIC

Minimum Requirements

OPERATION : Intermediate and Production Hole Sections

Minimum System Pressure Rating : 5,000 psi

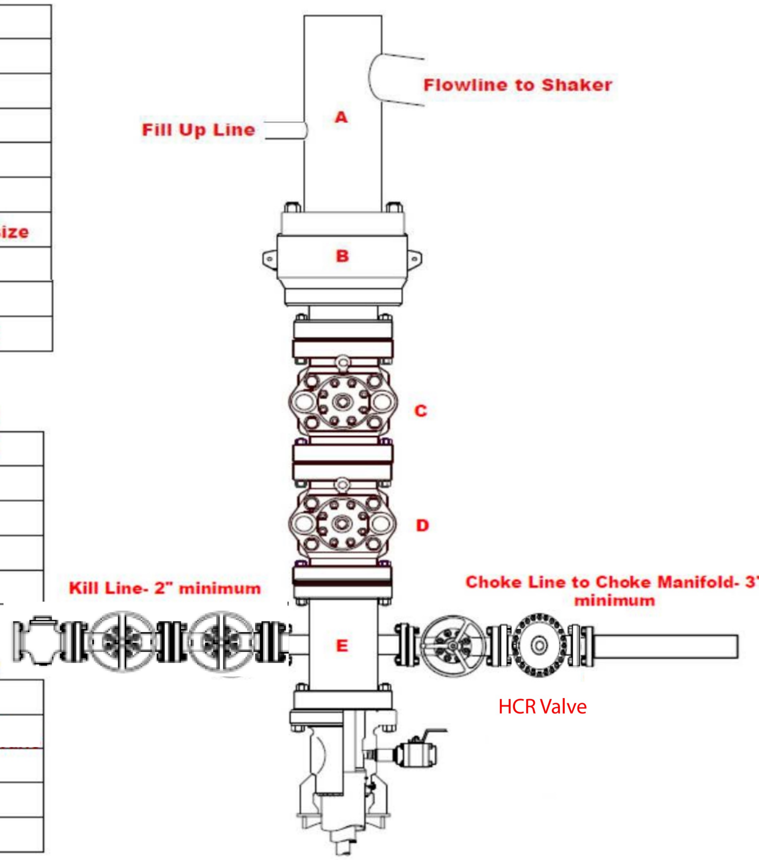
	SIZE	PRESSURE	DESCRIPTION
A		N/A	Bell Nipple
B	13 5/8"	5,000 psi	Annular
C	13 5/8"	5,000 psi	Pipe Ram
D	13 5/8"	5,000 psi	Blind Ram
E	13 5/8"	5,000 psi	Mud Cross
F			
DSA		As required for each hole size	
C-Sec			
B-Sec		13-5/8" 5K x 11" 5K	
A-Sec		13-3/8" SOW x 13-5/8" 5K	

Kill Line

SIZE	PRESSURE	DESCRIPTION
2"	5,000 psi	Gate Valve
2"	5,000 psi	Gate Valve
2"	5,000 psi	Check Valve

Choke Line

SIZE	PRESSURE	DESCRIPTION
3"	5,000 psi	Gate Valve
3"	5,000 psi	HCR Valve



Installation Checklist

The following item must be verified and checked off prior to pressure testing of 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 though flow.
- [ ] The kill line and choke line will be straight unless turns use tee blocks or are targeted with running tess, and will be anchored to prevent whip and reduce vibration.
- [ ] Manual (hand wheels) or automatic locking devices will be installed on all ram preventers. Hand wheels will also be installed on all manual valves on the choke line 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 safety valve and subs to fit all drill string connections in use.

After Installation Checklist is complete, fill out the information below and email to Superintendent and Drilling Engineer

Wellname: ____________________

Representative: ____________________

Date: ____________________

CHOKE MANIFOLD SCHEMATIC

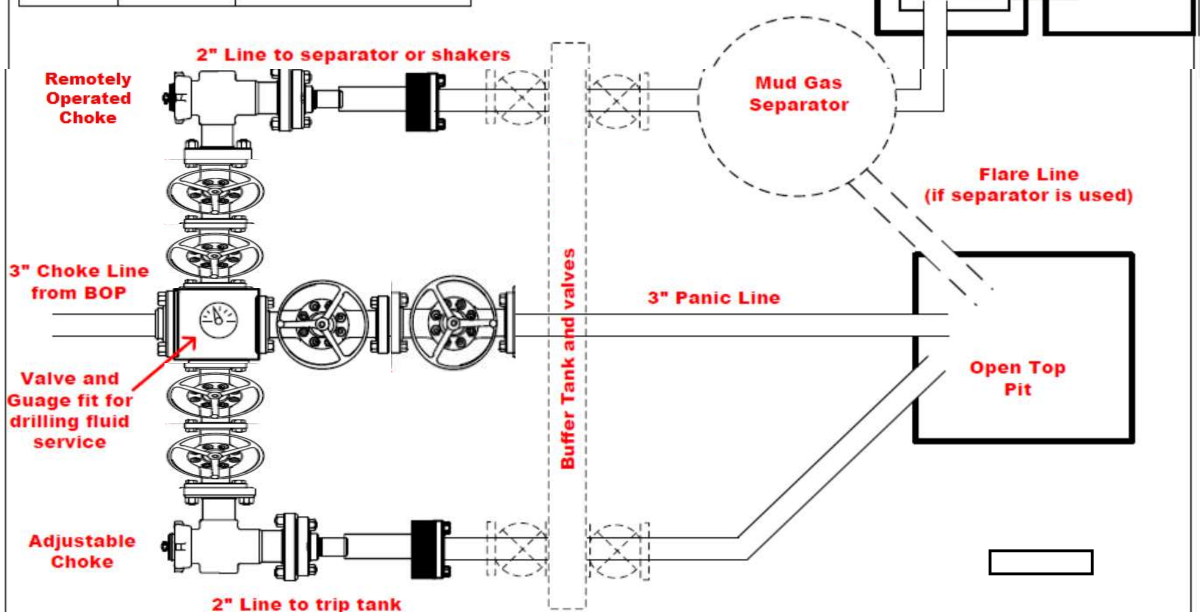
Minimum Requirements

OPERATION : Intermediate and Production Hole Sections

Minimum System Pressure Rating : 5,000 psi

Choke Manifold

SIZE	PRESSURE	DESCRIPTION
3"	5,000 psi	Panic Line Valves
2"	5,000 psi	Valves on Choke Lines



Installation Checklist

The following item must be verified and checked off prior to pressure testing of BOP equipment.

- [ ] The installed BOP equipment meets at least the minimum requirements (rating, type, size, configuration) as shown on this schematic. Components may be substituted for equivalent equipment rated to higher pressures. Additional components may be put into place as long as they meet or exceed the minimum pressure rating of the system.
- [ ] Adjustable Chokes may be Remotely Operated but will have backup hand pump for hydraulic actuation in case of loss of rig air pressure or power.
- [ ] Flare and Panic lines will terminate a minimum of 150' from the wellhead. These lines will terminate at a location as per approved APD.
- [ ] The choke line, kill line, and choke manifold lines will be straight unless turns use tee blocks or are targeted with running tess, and will be anchored to prevent whip and reduce vibration. This excludes the line between mud gas separator and shale shaker.
- [ ] All valves (except chokes) on choke line, kill line, and choke manifold will be full opening and will allow straight through flow. This excludes any valves between mud gas separator and shale shakers.
- [ ] All manual valves will have hand wheels installed.
- [ ] If used, flare system will have effective method for ignition
- [ ] All connections will be flanged, welded, or clamped (no threaded connections like hammer unions)
- [ ] If buffer tank is used, a valve will be used on all lines at any entry or exit point to or from the buffer tank.

After Installation Checklist is complete, fill out the information below and email to Superintendent and Drilling Engineer

Wellname: ______________________________

Representative: ______________________________

Date: ______________________________

Chevron BOPE Testing – 5K and 10K Systems

Minimum Requirements

Closing Unit and Accumulator Checklist

The following item must be performed, verified, and checked off at least once per well prior to low/high pressure testing of BOP equipment. This must be repeated after 6 months on the same well.

☐ **Precharge pressure for each accumulator bottle must fall within the range below. Bottles may be further charged with nitrogen gas only. Tested precharge pressures must be recorded for each individual bottle and kept on location through the end of the well. Test will be conducted prior to connecting unit to BOP stack.**

Check one that applies	Accumulator working pressure rating	Minimum acceptable operating pressure	Desired precharge pressure	Maximum acceptable precharge pressure	Minimum acceptable precharge pressure
☐	1500 psi	1500 psi	750 psi	800 psi	700 psi
☐	2000 psi	2000 psi	1000 psi	1100 psi	900 psi
☐	3000 psi	3000 psi	1000 psi	1100 psi	900 psi

☐ **Accumulator will have sufficient capacity to open the hydraulically-controlled choke line valve (if used), close all rams, close the annular preventer, and retain a minimum of 200 psi above the maximum acceptable precharge pressure (see table above) on the closing manifold without the use of the closing pumps. This test will be performed with test pressure recorded and kept on location through the end of the well**

☐ **Accumulator fluid reservoir will be double the usable fluid volume of the accumulator system capacity. Fluid level will be maintained at manufacturer's recommendations. Usable fluid volume will be recorded. Reservior capacity will be recorded. Reservoir fluid level will be recorded along with manufacturer's recommendation. All will be kept on location through the end of the well.**

☐ **Closing unit system will have two independent power sources (not counting accumulator bottles) to close the preventers.**

☐ **Power for the closing unit pumps will be available to the unit at all times so that the pumps will automatically start when the closing valve manifold pressure decreases to the pre-set level. It is recommended to check that air line to accumulator pump is "ON" during each tour change.**

☐ **With accumulator bottles isolated, closing unit will be capable of opening the hydraulically-operated choke line valve (if used) plus close the annular preventer on the smallest size drill pipe within 2 minutes and obtain a minimum of 200 psi above maximum acceptable precharge pressure (see table above) on the closing manifold. Test pressure and closing time will be recorded and kept on location through the end of the well.**

☐ **Master controls for the BOPE system will be located at the accumulator and will be capable of opening and closing all preventer and the choke line valve (if used)**

☐ **Remote controls for the BOPE system will be readily accessible (clear path) to the driller and located on the rig floor (not in the dog house). Remote controls will be capable of closing all preventers.**

☐ **Record accumulator tests in drilling reports and IADC sheet**

BOPE 5K Test Checklist

The following items must be checked off prior to beginning test:

- ☐ BLM will be given at least 4 hour notice prior to beginning BOPE testing.
- ☐ Valve on casing head below test plug will be open.
- ☐ Test will be performed using clear water.

The following items must be performed during the BOPE testing:

- ☐ BOPE will be pressure tested when initially installed, whenever any seal subject to test pressure is broken, following related repairs, and at a minimum of 30 day intervals. **Test pressure and times will be recorded by a 3rd party on a test charge and kept on location through the end of the well.**
- ☐ Test plug will be used.
- ☐ Ram type preventer and all related well control equipment will be tested to 250 psi (low) and 5,000 psi (high).
- ☐ Annular type preventer will be tested to 250 psi (low) and 3,500 psi (high).
- ☐ Valves will be tested fromt eh working pressure side with all downstream valves open. The check valve will be held open to test the kill line valve(s).
- ☐ Each pressure test will be held for 10 minutes with no allowable leak off.
- ☐ Master controls and remote controls to the closing unit (accumulator) must be function tested as part of the BOPE test.
- ☐ Record BOP tests and pressures in drilling reports and IADC sheet.

BOPE 10K (with 5K annular) Test Checklist

The following items must be checked off prior to beginning test:

- ☐ BLM will be given at least 4 hour notice prior to beginning BOPE testing.
- ☐ Valve on casing head below test plug will be open.
- ☐ Test will be performed using clear water.

The following items must be performed during the BOPE testing:

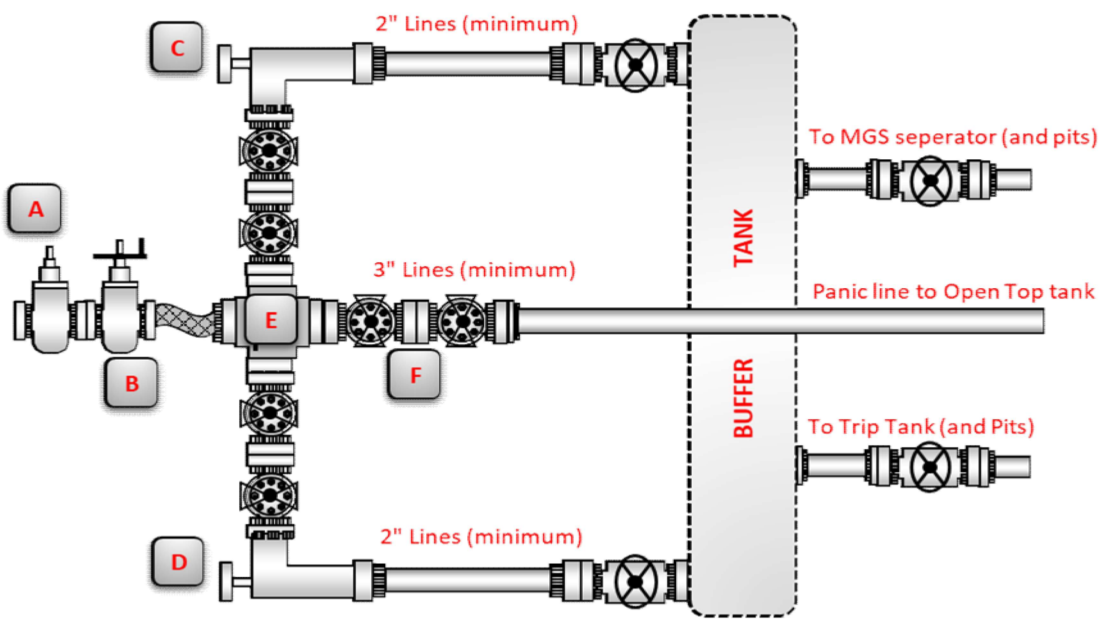
- ☐ BOPE will be pressure tested when initially installed, whenever any seal subject to test pressure is broken, following related repairs, and at a minimum of 30 day intervals. **Test pressure and times will be recorded by a 3rd party on a test charge and kept on location through the end of the well.**
- ☐ Test plug will be used.
- ☐ Ram type preventer and all related well control equipment will be tested to 250 psi (low) and 7,500 psi (high).
- ☐ Annular type preventer will be tested to 250 psi (low) and 5,000 psi (high).
- ☐ Valves will be tested from the working pressure side with all downstream valves open. The check valve will be held open to test the kill line valve(s).
- ☐ Each pressure test will be held for 10 minutes with no allowable leak off.
- ☐ Master controls and remote controls to the closing unit (accumulator) must be function tested as part of the BOPE test.
- ☐ Record BOP tests and pressures in drilling reports and IADC sheet.

CHOKE MANIFOLD SCHEMATIC

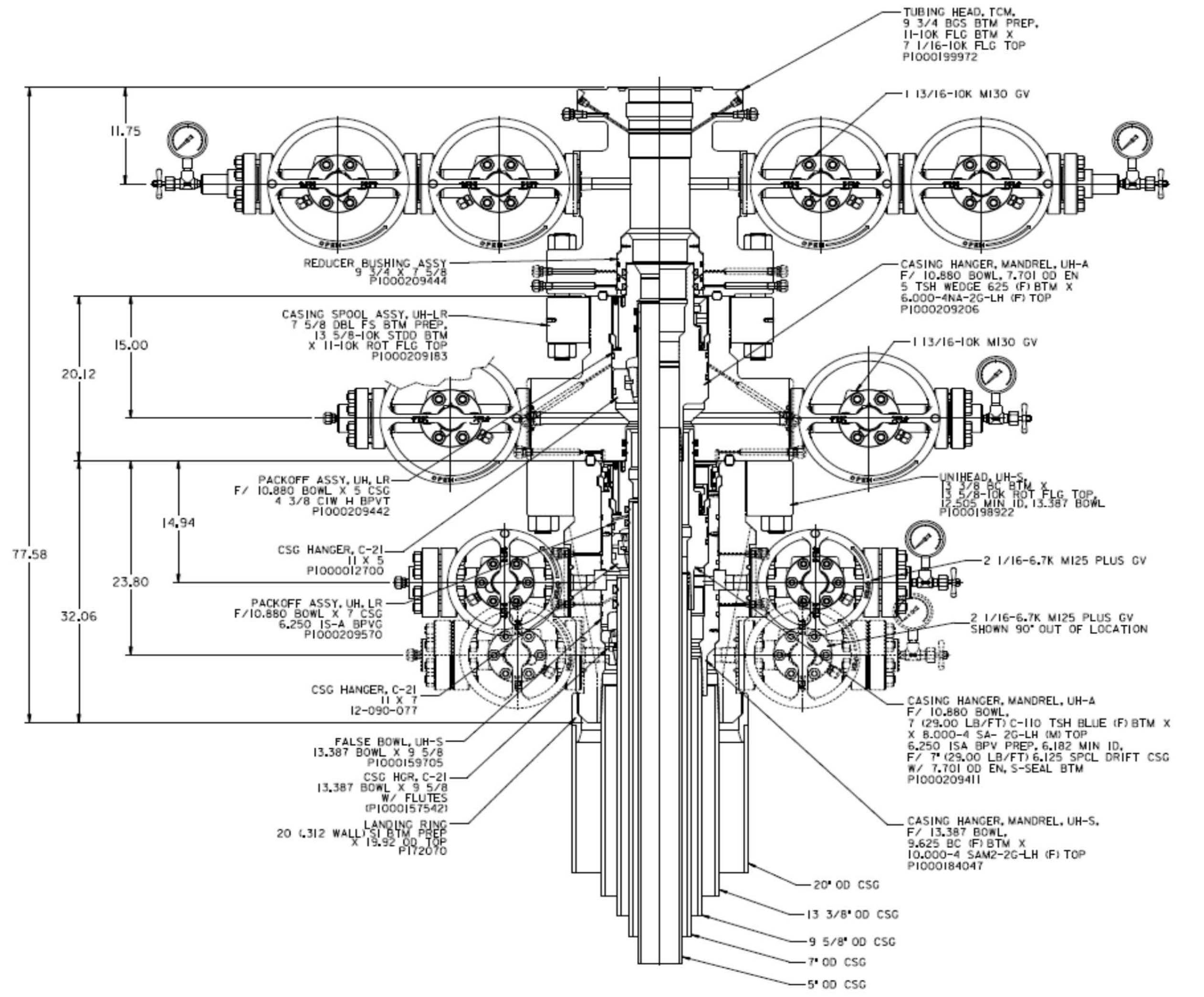
Operation:	Intermediate & Production
Minimum System operation pressure	5,000 psi

Choke Manifold

Part	Size	Pressure Rating	Description
A	3"	10,000	HCR (remotely operated)
B	3"	10,000	HCR (manually operated)
C	2"	10,000	Remotely operated choke
D	2"	10,000	Adjustable choke
E	3"	10,000	Crown valve with pressure gage
F	3"	10,000	Panic line valves



Choke Manifold Installation Checklist: *The following items must be verified and checked off prior to pressure testing BOP equipment*
The installed BOP equipment meets at least the minimum requirements (rating, type, size, configuration) as shown on this schematic. Components may be substituted for equivalent equipment rated to higher pressures. Additional components may be put into place as long as they meet or exceed the minimum pressure rating of the system.
Adjustable chokes may be remotely operated but will have backup hand pump for hydraulic actuation in case of loss of rig air or power.
Flare and panic lines will terminate a minimum of 150' from the wellhead. These lines will terminate at a location as per approved APD.
All valves (except chokes) on choke line, kill line and choke manifold will be full opening and will allow straight through flow. This excludes any valves between the mud gas separator and shale shakers.
All manual valves will have hand wheels installed.
Flare systems will have an effective method for ignition.
All connections will be flanged, welded or clamped
If buffer tank is used, a valve will be used on all lines at any entry or exit point to or from the buffer tank.



PRODUCTION MODE

6650 PSI UH-S

CHEVRON

20 X 13 3/8 X 9 5/8 X 7 X 5

NEW MEXICO SLIM HOLE

QUOTE# 20395747
CASE# 00026966
F111378
DBD10163394
REF: DM100312054
DM100276064

BLOWOUT PREVENTER SCHEMATIC

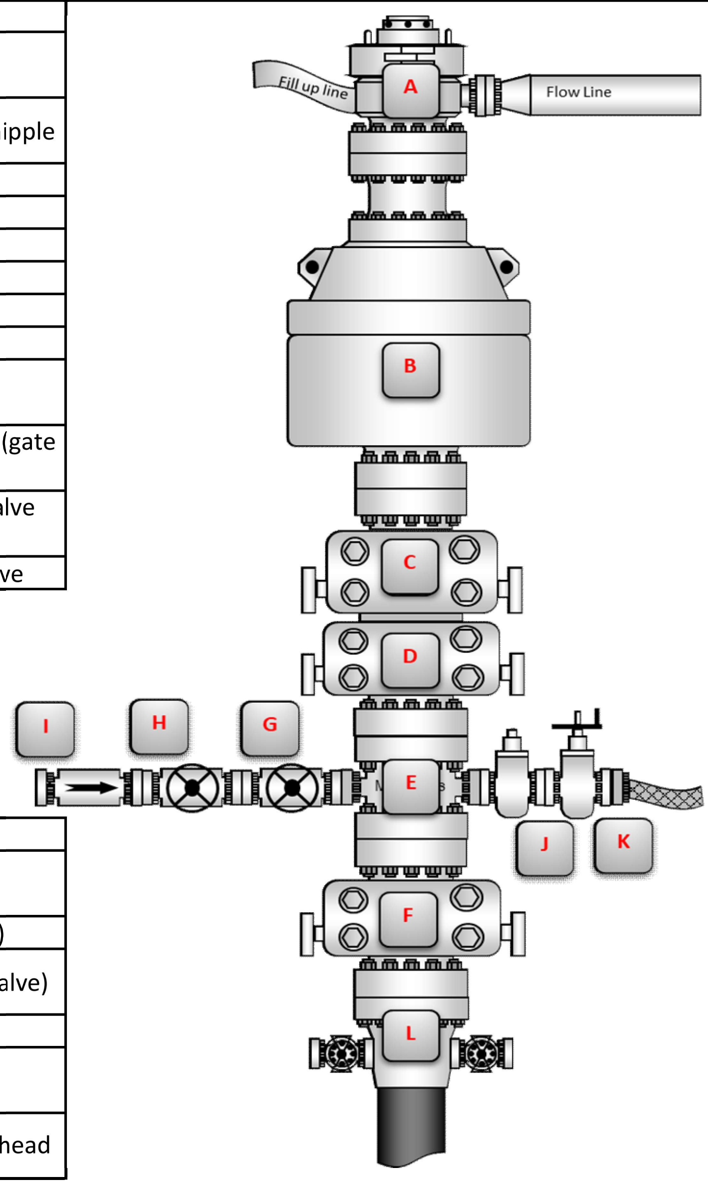
Operation:	Intermediate & Production Drilling Operations
Minimum System operation pressure	5,000 psi

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.

BLOWOUT PREVENTER SCHEMATIC

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

Minimum Requirements

Closing Unit and Accumulator Checklist

The following item must be performed, verified, and checked off at least once per well prior to low/high pressure testing of BOP equipment. This must be repeated after 6 months on the same well.

☐ **Precharge pressure for each accumulator bottle must fall within the range below. Bottles may be further charged with nitrogen gas only. Tested precharge pressures must be recorded for each individual bottle and kept on location through the end of the well. Test will be conducted prior to connecting unit to BOP stack.**

Check one that applies	Accumulator working pressure rating	Minimum acceptable operating pressure	Desired precharge pressure	Maximum acceptable precharge pressure	Minimum acceptable precharge pressure
☐	1500 psi	1500 psi	750 psi	800 psi	700 psi
☐	2000 psi	2000 psi	1000 psi	1100 psi	900 psi
☐	3000 psi	3000 psi	1000 psi	1100 psi	900 psi

☐ **Accumulator will have sufficient capacity to open the hydraulically-controlled choke line valve (if used), close all rams, close the annular preventer, and retain a minimum of 200 psi above the maximum acceptable precharge pressure (see table above) on the closing manifold without the use of the closing pumps. This test will be performed with test pressure recorded and kept on location through the end of the well**

☐ **Accumulator fluid reservoir will be double the usable fluid volume of the accumulator system capacity. Fluid level will be maintained at manufacturer's recommendations. Usable fluid volume will be recorded. Reservior capacity will be recorded. Reservoir fluid level will be recorded along with manufacturer's recommendation. All will be kept on location through the end of the well.**

☐ **Closing unit system will have two independent power sources (not counting accumulator bottles) to close the preventers.**

☐ **Power for the closing unit pumps will be available to the unit at all times so that the pumps will automatically start when the closing valve manifold pressure decreases to the pre-set level. It is recommended to check that air line to accumulator pump is "ON" during each tour change.**

☐ **With accumulator bottles isolated, closing unit will be capable of opening the hydraulically-operated choke line valve (if used) plus close the annular preventer on the smallest size drill pipe within 2 minutes and obtain a minimum of 200 psi above maximum acceptable precharge pressure (see table above) on the closing manifold. Test pressure and closing time will be recorded and kept on location through the end of the well.**

☐ **Master controls for the BOPE system will be located at the accumulator and will be capable of opening and closing all preventer and the choke line valve (if used)**

☐ **Remote controls for the BOPE system will be readily accessible (clear path) to the driller and located on the rig floor (not in the dog house). Remote controls will be capable of closing all preventers.**

☐ **Record accumulator tests in drilling reports and IADC sheet**

BLOWOUT PREVENTER SCHEMATIC

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

BOPE 5K Test Checklist

The following items must be checked off prior to beginning test:

- ☐ BLM will be given at least 4 hour notice prior to beginning BOPE testing.
- ☐ Valve on casing head below test plug will be open.
- ☐ Test will be performed using clear water.

The following items must be performed during the BOPE testing:

- ☐ BOPE will be pressure tested when initially installed, whenever any seal subject to test pressure is broken, following related repairs, and at a minimum of 30 day intervals. **Test pressure and times will be recorded by a 3rd party on a test charge and kept on location through the end of the well.**
- ☐ Test plug will be used.
- ☐ Ram type preventer and all related well control equipment will be tested to 250 psi (low) and 5,000 psi (high).
- ☐ Annular type preventer will be tested to 250 psi (low) and 3,500 psi (high).
- ☐ Valves will be tested fromt eh working pressure side with all downstream valves open. The check valve will be held open to test the kill line valve(s).
- ☐ Each pressure test will be held for 10 minutes with no allowable leak off.
- ☐ Master controls and remote controls to the closing unit (accumulator) must be function tested as part of the BOPE test.
- ☐ Record BOP tests and pressures in drilling reports and IADC sheet.

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 289966

CONDITIONS

Operator:	
CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 289966
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	12/28/2023
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	12/28/2023
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	12/28/2023
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	12/28/2023
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	12/28/2023
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	12/28/2023