

Form 3160-3  
(June 2015)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0137  
Expires: January 31, 20185. Lease Serial No.  
NMNM116028

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.  
NMNM 137168A

8. Lease Name and Well No.

CICADA UNIT

58H

9. API Well No.

30-015-49471

10. Field and Pool, or Exploratory  
PURPLE SAGE/WOLFCAMP GAS11. Sec., T. R. M. or Blk. and Survey or Area  
SEC 13/T26S/R27E/NMP1a. Type of work: ☒ DRILL ☐ REENTER  
1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other  
1c. Type of Completion: ☐ Hydraulic Fracturing ☒ Single Zone ☐ Multiple Zone2. Name of Operator  
CHEVRON USA INCORPORATED3a. Address  
P O BOX 1635, HOUSTON, TX 772513b. Phone No. (include area code)  
(661) 654-72564. Location of Well (Report location clearly and in accordance with any State requirements. \*)  
At surface NWNW / 270 FNL / 1152 FWL / LAT 32.048959 / LONG -104.148568  
At proposed prod. zone NENW / 50 FNL / 1650 FWL / LAT 32.078794 / LONG -104.14705514. Distance in miles and direction from nearest town or post office\*  
11 miles12. County or Parish  
EDDY13. State  
NM15. Distance from proposed\*  
location to nearest  
property or lease line, ft.  
(Also to nearest drig. unit line, if any) 270 feet

16. No of acres in lease

17. Spacing Unit dedicated to this well  
640.018. Distance from proposed location\*  
to nearest well, drilling, completed,  
applied for, on this lease, ft. 500 feet19. Proposed Depth  
9292 feet / 19687 feet20. BLM/BIA Bond No. in file  
FED: ES002221. Elevations (Show whether DF, KDB, RT, GL, etc.)  
3180 feet22. Approximate date work will start\*  
01/09/202223. Estimated duration  
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  
(Electronic Submission)Name (Printed/Typed)  
KAYLA MCCONNELL / Ph: (432) 687-7866Date  
07/20/2021Title  
Permitting SpecialistApproved by (Signature)  
(Electronic Submission)Name (Printed/Typed)  
Cody Layton / Ph: (575) 234-5959Date  
04/14/2022Title  
Assistant Field Manager Lands & MineralsOffice  
Carlsbad Field Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

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

(Continued on page 2)

\*(Instructions on page 2)



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

<sup>1</sup> API Number <b>30-015-49471</b>	<sup>2</sup> Pool Code 98220	<sup>3</sup> Pool Name PURPLE SAGE WOLFCAMP (GAS)
<sup>4</sup> Property Code <b>325142</b>	<sup>5</sup> Property Name CICADA UNIT	<sup>6</sup> Well Number 58H
<sup>7</sup> OGRID No. 4323	<sup>8</sup> Operator Name CHEVRON U.S.A. INC.	<sup>9</sup> Elevation 3180'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	13	26 SOUTH	27 EAST, N.M.P.M.		270'	NORTH	1152'	WEST	EDDY

<sup>11</sup> 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
C	1	26 SOUTH	27 EAST, N.M.P.M.		50'	NORTH	1650'	WEST	EDDY

<sup>12</sup> Dedicated Acres 640	<sup>13</sup> Joint or Infill DEFINING	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No. R-14459, NMNM 137168A
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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.

<p><sup>16</sup></p> <p><b>PROPOSED FIRST TAKE POINT</b></p> <p>X= 557,890' Y= 382,141' LAT. 32.050484° N LONG. 104.146487° W NAD 27</p> <p><b>PROPOSED MID POINT</b></p> <p>X= 557,799' Y= 387,128' LAT. 32.064193° N LONG. 104.146753° W NAD 27</p> <p><b>PROPOSED LAST TAKE POINT</b></p> <p>X= 557,845' Y= 392,115' LAT. 32.077902° N LONG. 104.146574° W NAD 27</p> <p><b>PROPOSED BOTTOM HOLE LOCATION</b></p> <p>X= 557,848' Y= 392,395' LAT. 32.078671° N LONG. 104.146564° W NAD 27</p> <p><b>CORNER COORDINATES TABLE (NAD 27)</b></p> <p>A-Y=392443.13, X=556198.44 B-Y=392445.78, X=558852.55 C-Y=387127.27, X=556148.39 D-Y=387128.55, X=558835.86 E-Y=381810.53, X=556245.48 F-Y=381811.95, X=558892.34 G-Y=380480.95, X=556247.03 H-Y=380482.26, X=558895.07</p> <p><b>CICADA UNIT NO. 58H WELL</b></p> <p>X= 557,398' Y= 381,541' LAT. 32.048836° N LONG. 104.148077° W NAD 27</p> <p><b>PROPOSED FIRST TAKE POINT</b></p> <p>X= 598,582' Y= 381,598' LAT. 32.048959° N LONG. 104.148568° W NAD83/86</p> <p><b>PROPOSED MID POINT</b></p> <p>X= 598,983' Y= 387,185' LAT. 32.064316° N LONG. 104.147244° W NAD83/86</p> <p><b>PROPOSED LAST TAKE POINT</b></p> <p>X= 599,029' Y= 392,172' LAT. 32.078024° N LONG. 104.147065° W NAD83/86</p>		<p><b><sup>17</sup> OPERATOR CERTIFICATION</b></p> <p>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.</p> <p><i>Kayla McConnell</i> 7/7/2021 Signature Date</p> <p>Kayla McConnell Printed Name</p> <p>gncv@chevron.com E-mail Address</p> <p><b><sup>18</sup> SURVEYOR CERTIFICATION</b></p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>06/21/2021 Date of Survey</p> <p>Signature and Seal of Professional Surveyor.</p> <p><b>STEVEN M. COLEMAN</b> 22921 06/28/2021 PROFESSIONAL SURVEYOR</p> <p>Steven M. Coleman Certificate Number</p>
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State of New Mexico  
Energy, Minerals and Natural Resources Department

Submit Electronically  
Via E-permitting

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

## NATURAL GAS MANAGEMENT PLAN

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

### Section 1 – Plan Description

Effective May 25, 2021

**I. Operator:** Chevron USA Inc **OGRID:** 4323 **Date:** 03 / 17 / 2022

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

If Other, please describe: \_\_\_\_\_

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
CICADA UNIT 56H	Pending	UL:D Sec 13, T26S – R27E	270' FNL, 1112' FWL	BBL/D	MCF/D	BBL/D
CICADA UNIT 57H	Pending	UL:D,Sec 13, T26S – R27E	270' FNL, 1132' FWL	BBL/D	MCF/D	BBL/D
CICADA UNIT 58H	Pending	UL:D,Sec 13, T26S – R27E	270' FNL, 1152' FWL	BBL/D	MCF/D	BBL/D
CICADA UNIT 59H	Pending	UL:D,Sec 13, T26S – R27E	270' FNL, 1172' FWL	BBL/D	MCF/D	BBL/D

**IV. Central Delivery Point Name:** HHNM CTB 12 [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
CICADA UNIT 56H	Pending		<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
CICADA UNIT 57H	Pending		<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
CICADA UNIT 58H	Pending		<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
CICADA UNIT 59H	Pending		<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

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

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

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

## **Section 2 – Enhanced Plan** **EFFECTIVE APRIL 1, 2022**

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

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

### **IX. Anticipated Natural Gas Production:**

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

### **X. Natural Gas Gathering System (NGGS):**

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

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

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

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

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

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

### **Section 3 - Certifications**

**Effective May 25, 2021**

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

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

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

***If Operator checks this box, Operator will select one of the following:***

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

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

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

### **Section 4 - Notices**

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

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

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

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

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

Signature:	<i>Cindy Herrera-Murillo</i>
Printed Name:	Cindy Herrera-Murillo
Title:	Sr HSE Regulatory affairs Coordinator
E-mail Address:	eeof@chevron.com
Date:	03/17/2022
Phone:	575-263-0431
<b>OIL CONSERVATION DIVISION</b> <b>(Only applicable when submitted as a standalone form)</b>	
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

**VI. Separation Equipment:**

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

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

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

**2. During Drilling Operations:**

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

**3. During Completions:**

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

**4. During Production:**

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

5. Performance Standards

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

6. Measurement or Estimation of Vented and Flared Natural Gas

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





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

# Drilling Plan Data Report

04/18/2022

APD ID: 10400077665

Submission Date: 07/20/2021

Highlighted data  
reflects the most  
recent changes

Operator Name: CHEVRON USA INCORPORATED

Well Name: CICADA UNIT

Well Number: 58H

[Show Final Text](#)

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

## Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
6629112	SALADO	3180	0	0	ANHYDRITE	NONE	N
6629124	CASTILE	2599	581	581	ANHYDRITE	NONE	N
6629114	LAMAR	846	2334	2334	SANDSTONE	NONE	N
6629115	BELL CANYON	810	2370	2370	SANDSTONE	NONE	N
6629116	CHERRY CANYON	-76	3256	3256	SANDSTONE	NONE	N
6629117	BRUSHY CANYON	-1289	4469	4469	SHALE	NONE	N
6629118	BONE SPRING LIME	-2881	6061	6061	SHALE	NONE	N
6629119	AVALON SAND	-2986	6166	6166	SHALE	NONE	N
6629120	BONE SPRING 1ST	-3761	6941	6941	SANDSTONE, SHALE	NONE	N
6629121	BONE SPRING 2ND	-4282	7462	7462	SANDSTONE, SHALE	NONE	N
6629122	BONE SPRING 3RD	-5354	8534	8534	SHALE	NONE	N
6629123	WOLFCAMP	-6112	9292	19687	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y

## Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 9292

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

**Requesting Variance?** YES

**Variance request:** Chevron is requesting the following variances: -A variance to use a FMC Technologies UH-S Multibowl wellhead, which will be run through the rig floor on surface casing. BOPE will be nipped up and tested after cementing

Page 1 of 7

**Operator Name:** CHEVRON USA INCORPORATED**Well Name:** CICADA UNIT**Well Number:** 58H

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. -A variance to use a CoFlex hose with a metal protective covering that will be utilized between the BOP and Choke manifold. Please refer to the attached testing and specification documents. - A variance from the Onshore Order 2 where it states: "(A full BOP Test) shall be performed: when initially installed and whenever any seal subject to test pressure is broken." We propose to break test if able to finish the next hole section within 21 days of the previous full BOP test. No BOP components nor any break will ever surpass 21 days between testing. A break test will consist of a 250 psi low / 5,000 psi high for 10 min each test against the connection that was broken when skidding the rig. 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 liner hole 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.

**Testing Procedure:** Stack will be tested as specified in the attached testing requirements, upon NU and not to exceed 30 days. Test BOP from 250 psi to 5000 psi in Ram and 250 psi to 3500 psi in annular. BOP/BOPE will be tested by an independent service company to 250 psi low and a minimum of the high pressure indicated above. Batch drilling of the surface, intermediate, and production will take place. A full BOP test will be performed each hole section unless approval from the BLM is received otherwise. Flex choke hose will be used for all wells on the pad (see attached specs). BOP test will be conducted by a third party.

**Choke Diagram Attachment:**

BLM\_5M\_Choke\_Manifold\_Diagram\_20201023110238.pdf

**BOP Diagram Attachment:**

BLM\_5M\_Annular\_10M\_Rams\_Stackup\_and\_Test\_Plan\_20201023110321.pdf

BLM\_Choke\_Hose\_Test\_Specs\_and\_Pressure\_Test\_Continental\_20201023110337.pdf

NM\_Slim\_Hole\_Wellhead\_6650\_psi\_UH\_S\_20201023110414.pdf

**Section 3 - Casing**

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	450	0	450	3180	2730	450	J-55	54.5	BUTT	2.13	1.43	DRY	4.07	DRY	4.07
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	2334	0	2334	3143	846	2334	L-80	40	OTHER - BTC/LTC	1.24	1.64	DRY	2.78	DRY	2.78
3	PRODUCTION	8.75	7.0	NEW	API	N	0	8534	0	8534	3143	-5354	8534	P-110	29	OTHER - BLUE	1.63	1.15	DRY	2.39	DRY	2.39
4	LINER	6.125	5.0	NEW	API	Y	8234	9034	8234	9034	-5054	-5854	800	P-110	18	OTHER - W513	1.39	1.1	DRY	1.32	DRY	1.32
5	PRODUCTION	6.125	4.5	NEW	API	N	9034	19687	9034	9292	-5854	-6112	10653	P-110	11.6	OTHER - W521	1.39	1.1	DRY	1.32	DRY	1.32

**Operator Name:** CHEVRON USA INCORPORATED**Well Name:** CICADA UNIT**Well Number:** 58H**Casing Attachments**

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**Casing ID:** 1      **String Type:** SURFACE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**13.375\_54.5ppf\_J55\_BTC\_20210719112510.pdf

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**Casing ID:** 2      **String Type:** INTERMEDIATE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**9.625\_40.0ppf\_L80IC\_BTC\_20210719103701.pdf

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**Casing ID:** 3      **String Type:** PRODUCTION**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**7.0\_29.0ppf\_P110\_TSH\_Blue\_20210719103743.pdf

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Operator Name: CHEVRON USA INCORPORATED

Well Name: CICADA UNIT

Well Number: 58H

## Casing Attachments

Casing ID: 4 String Type: LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Cicada\_Unit\_No.58H\_9pt\_Drilling\_Plan\_20210719112655.pdf

Casing Design Assumptions and Worksheet(s):

5.0\_18.0ppf\_P110\_W513\_20210719103823.pdf

Casing ID: 5 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

4.5\_11.6ppf\_P110\_TSH\_W521\_20210719103924.pdf

## Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	0	0	0	0	0		N/A	N/A
SURFACE	Tail		0	450	259	1.33	14.8	344	10	CLASS C	Extender, Antifoam, Retarder
INTERMEDIATE	Lead		0	1334	185	2.49	11.9	460	10	CLASS C	Extender, Antifoam, Retarder, Viscosifier
INTERMEDIATE	Tail		1334	2334	287	1.33	14.8	382	10	CLASS C	Extender, Antifoam, Retarder, Viscosifier
PRODUCTION	Lead		0	7534	559	2.2	11.9	1230	10	CLASS C	Extender, Antifoam, Retarder, Viscosifier

**Operator Name:** CHEVRON USA INCORPORATED**Well Name:** CICADA UNIT**Well Number:** 58H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		7534	8534	118	1.4	14.5	165	10	CLASS C	Extender, Antifoam, Retarder, Viscosifier
LINER	Lead		8334	1968 7	639	1.84	13.2	1176	10	CLASS C	Extender, Antifoam, Retarder, Viscosifier

### Section 5 - Circulating Medium

**Mud System Type:** Closed**Will an air or gas system be Used?** NO**Description of the equipment for the circulating system in accordance with Onshore Order #2:****Diagram of the equipment for the circulating system in accordance with Onshore Order #2:**

**Describe what will be on location to control well or mitigate other conditions:** A closed system will be used consisting of above ground steel tanks. All wastes accumulated during drilling operations will be contained in a portable trash cage and removed from location and deposited in an approved sanitary landfill. Sanitary wastes will be contained in a chemical porta-toilet and then hauled to an approved sanitary landfill. All fluids and cuttings will be disposed of in accordance with New Mexico Oil Conservation Division rules and regulations. 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. A weighting agent and lost circulating material (LCM) will be onsite to mitigate pressure or lost circulation as hole conditions dictate.

### 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	450	SPUD MUD	8.3	9.1							VISCOSITY: 28-30 FILTRATE: N/C
450	2334	OTHER : BRINE	8.9	10.5							VISCOSITY: 26-36 FILTRATE: 15-25
2334	8534	OTHER : WBM/BRINE	8.7	9.6							VISCOSITY: 26-36 FILTRATE: 15-25

**Operator Name:** CHEVRON USA INCORPORATED**Well Name:** CICADA UNIT**Well Number:** 58H

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
8534	1968 7	OIL-BASED MUD	8.7	13							VISCOSITY: 50-70 FILTRATE: 5-10 Due to wellbore stability, the mud program may exceed the MW weight window needed to maintain overburden of pore pressure.

### Section 6 - Test, Logging, Coring

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

Drill stem tests are not planned

The logging program will be as follows:

Mudlogs Logs: 2 man mudlog Interval: Surf csg shoe through Prod hole TD Timing: While drilling or circulating

LWD Logs: MWD gamma Interval: Int. and Prod. Hole Timing: While drilling

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

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

**Coring operation description for the well:**

Conventional whole core samples are not planned; direction survey will be run - will send log(s) when run.

### Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 5508

**Anticipated Surface Pressure:** 3463

**Anticipated Bottom Hole Temperature(F):** 150

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

**Describe:**

**Contingency Plans geohazards description:**

**Contingency Plans geohazards attachment:**

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

**Hydrogen sulfide drilling operations plan:**

H2S\_Contingency\_Plan\_20211201070154.pdf

**Operator Name:** CHEVRON USA INCORPORATED**Well Name:** CICADA UNIT**Well Number:** 58H

## Section 8 - Other Information

**Proposed horizontal/directional/multi-lateral plan submission:**

CicadaUnit58H\_Directional\_20210719114846.pdf

Cicada\_Unit\_No.58H\_9pt\_Drilling\_Plan\_20211201070326.pdf

**Other proposed operations facets description:**

Chevron formally requests authorization to use the spudder rig to spud the well and set surface and intermediate casing. The drilling rig will move in less than 90 days to continue drilling operations. Rig layouts attached.

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

**Other proposed operations facets attachment:**

Rig\_Layout\_20201023120702.pdf

**Other Variance attachment:**

HHNM\_Pkg\_19\_\_\_20\_\_\_APD\_Variance\_20210719065839.pdf

CUSA\_Spudder\_Rig\_Data\_20201023121533.pdf



## Cicada Unit 58H R0 mdv 09Jun21 Proposal Geodetic Report

(Def Plan)

**Report Date:** June 17, 2021 - 04:43 PM  
**Client:** Chevron  
**Field:** NM, Eddy County (NAD 27 EZ)  
**Structure / Slot:** Chevron Cicada Unit Pkg 19 / 58H  
**Well:** Cicada Unit 58H  
**Borehole:** Cicada Unit 58H  
**UWI / API#:** Unknown / Unknown  
**Survey Name:** Cicada Unit 58H R0 mdv 09Jun21  
**Survey Date:** June 09, 2021  
**Tort / AHD / DDI / ERD Ratio:** 107.926 ° / 11333.109 ft / 6.419 / 1.222  
**Coordinate Reference System:** NAD27 New Mexico State Plane, Eastern Zone, US Feet  
**Location Lat / Long:** N 32° 2' 55.81028", W 104° 8' 53.08025"  
**Location Grid N/E Y/X:** N 381541.150 ftUS, E 557397.800 ftUS  
**CRS Grid Convergence Angle:** 0.0983 °  
**Grid Scale Factor:** 0.99991286  
**Version / Patch:** 2.10.825.0

**Survey / DLS Computation:** Minimum Curvature / Lubinski  
**Vertical Section Azimuth:** 359.770 ° (Grid North)  
**Vertical Section Origin:** 0.000 ft, 0.000 ft  
**TVD Reference Datum:** RKB  
**TVD Reference Elevation:** 3208.000 ft above MSL  
**Seabed / Ground Elevation:** 3180.000 ft above MSL  
**Magnetic Declination:** 6.861 °  
**Total Gravity Field Strength:** 998.4344mgN (9.80665 Based)  
**Gravity Model:** GARM  
**Total Magnetic Field Strength:** 47592.759 nT  
**Magnetic Dip Angle:** 59.633 °  
**Declination Date:** June 09, 2021  
**Magnetic Declination Model:** HDGM 2021  
**North Reference:** Grid North  
**Grid Convergence Used:** 0.0983 °  
**Total Corr Mag North->Grid North:** 6.7623 °  
**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	381541.15	557397.80	N 32° 2' 55.81" W 104° 8' 53.08"	
	100.00	0.00	87.01	100.00	0.00	0.00	0.00	0.00	381541.15	557397.80	N 32° 2' 55.81" W 104° 8' 53.08"	
	200.00	0.00	87.01	200.00	0.00	0.00	0.00	0.00	381541.15	557397.80	N 32° 2' 55.81" W 104° 8' 53.08"	
	300.00	0.00	87.01	300.00	0.00	0.00	0.00	0.00	381541.15	557397.80	N 32° 2' 55.81" W 104° 8' 53.08"	
	400.00	0.00	87.01	400.00	0.00	0.00	0.00	0.00	381541.15	557397.80	N 32° 2' 55.81" W 104° 8' 53.08"	
	500.00	0.00	87.01	500.00	0.00	0.00	0.00	0.00	381541.15	557397.80	N 32° 2' 55.81" W 104° 8' 53.08"	
	600.00	0.00	87.01	600.00	0.00	0.00	0.00	0.00	381541.15	557397.80	N 32° 2' 55.81" W 104° 8' 53.08"	
Castile (CSTL)	609.00	0.00	87.01	609.00	0.00	0.00	0.00	0.00	381541.15	557397.80	N 32° 2' 55.81" W 104° 8' 53.08"	
Build 1.5"/100ft	700.00	0.00	87.01	700.00	0.00	0.00	0.00	0.00	381541.15	557397.80	N 32° 2' 55.81" W 104° 8' 53.08"	
	800.00	1.50	87.01	799.99	0.06	0.07	1.31	1.50	381541.22	557399.11	N 32° 2' 55.81" W 104° 8' 53.07"	
	900.00	3.00	87.01	899.91	0.25	0.27	5.23	1.50	381541.42	557403.03	N 32° 2' 55.81" W 104° 8' 53.02"	
	1000.00	4.50	87.01	999.69	0.57	0.61	11.76	1.50	381541.76	557409.56	N 32° 2' 55.82" W 104° 8' 52.94"	
	1100.00	6.00	87.01	1099.27	1.01	1.09	20.90	1.50	381542.24	557418.69	N 32° 2' 55.82" W 104° 8' 52.84"	
	1200.00	7.50	87.01	1198.57	1.57	1.70	32.63	1.50	381542.85	557430.43	N 32° 2' 55.83" W 104° 8' 52.70"	
Hold	1233.34	8.00	87.01	1231.61	1.79	1.94	37.12	1.50	381543.09	557434.92	N 32° 2' 55.83" W 104° 8' 52.65"	
	1300.00	8.00	87.01	1297.62	2.24	2.42	46.39	0.00	381543.57	557444.18	N 32° 2' 55.83" W 104° 8' 52.54"	
	1400.00	8.00	87.01	1396.65	2.91	3.15	60.29	0.00	381544.30	557458.08	N 32° 2' 55.84" W 104° 8' 52.38"	
	1500.00	8.00	87.01	1495.67	3.58	3.88	74.19	0.00	381545.02	557471.98	N 32° 2' 55.85" W 104° 8' 52.22"	
	1600.00	8.00	87.01	1594.70	4.25	4.60	88.08	0.00	381545.75	557485.88	N 32° 2' 55.85" W 104° 8' 52.06"	
	1700.00	8.00	87.01	1693.73	4.92	5.33	101.98	0.00	381546.48	557499.77	N 32° 2' 55.86" W 104° 8' 51.90"	
	1800.00	8.00	87.01	1792.75	5.59	6.05	115.88	0.00	381547.20	557513.67	N 32° 2' 55.87" W 104° 8' 51.73"	
	1900.00	8.00	87.01	1891.78	6.26	6.78	129.78	0.00	381547.93	557527.57	N 32° 2' 55.88" W 104° 8' 51.57"	
	2000.00	8.00	87.01	1990.81	6.93	7.51	143.68	0.00	381548.65	557541.47	N 32° 2' 55.88" W 104° 8' 51.41"	
	2100.00	8.00	87.01	2089.83	7.60	8.23	157.58	0.00	381549.38	557555.36	N 32° 2' 55.89" W 104° 8' 51.25"	
	2200.00	8.00	87.01	2188.86	8.27	8.96	171.47	0.00	381550.11	557569.26	N 32° 2' 55.90" W 104° 8' 51.09"	
	2300.00	8.00	87.01	2287.89	8.94	9.68	185.37	0.00	381550.83	557583.16	N 32° 2' 55.90" W 104° 8' 50.93"	
Lamar (LMAR)	2324.73	8.00	87.01	2312.38	9.11	9.86	188.81	0.00	381551.01	557586.59	N 32° 2' 55.90" W 104° 8' 50.89"	
Beil Canyon (BLCN)	2367.14	8.00	87.01	2348.43	9.35	10.13	193.87	0.00	381551.28	557591.65	N 32° 2' 55.91" W 104° 8' 50.83"	
	2400.00	8.00	87.01	2386.91	9.61	10.41	199.27	0.00	381551.56	557597.05	N 32° 2' 55.91" W 104° 8' 50.76"	
	2500.00	8.00	87.01	2485.94	10.28	11.14	213.17	0.00	381552.28	557610.95	N 32° 2' 55.92" W 104° 8' 50.60"	
	2600.00	8.00	87.01	2584.97	10.95	11.86	227.07	0.00	381553.01	557624.85	N 32° 2' 55.92" W 104° 8' 50.44"	
	2700.00	8.00	87.01	2683.99	11.62	12.59	240.97	0.00	381553.74	557638.75	N 32° 2' 55.93" W 104° 8' 50.28"	
	2800.00	8.00	87.01	2783.02	12.29	13.31	254.87	0.00	381554.46	557652.64	N 32° 2' 55.94" W 104° 8' 50.12"	
	2900.00	8.00	87.01	2882.05	12.96	14.04	268.76	0.00	381555.19	557666.54	N 32° 2' 55.94" W 104° 8' 49.96"	
	3000.00	8.00	87.01	2981.08	13.63	14.77	282.66	0.00	381555.91	557680.44	N 32° 2' 55.95" W 104° 8' 49.80"	
	3100.00	8.00	87.01	3080.10	14.30	15.49	296.56	0.00	381556.64	557694.34	N 32° 2' 55.96" W 104° 8' 49.63"	
	3200.00	8.00	87.01	3179.13	14.97	16.22	310.46	0.00	381557.37	557708.23	N 32° 2' 55.97" W 104° 8' 49.47"	
Cherry Canyon (CRCN)	3254.98	8.00	87.01	3233.57	15.34	16.62	318.10	0.00	381557.77	557715.87	N 32° 2' 55.97" W 104° 8' 49.38"	
	3300.00	8.00	87.01	3278.16	15.64	16.94	324.36	0.00	381558.09	557722.13	N 32° 2' 55.97" W 104° 8' 49.31"	
	3400.00	8.00	87.01	3377.18	16.31	17.67	338.26	0.00	381558.82	557736.03	N 32° 2' 55.98" W 104° 8' 49.15"	
	3500.00	8.00	87.01	3476.21	16.98	18.40	352.16	0.00	381559.54	557749.92	N 32° 2' 55.99" W 104° 8' 48.99"	
	3600.00	8.00	87.01	3575.24	17.65	19.12	366.05	0.00	381560.27	557763.82	N 32° 2' 55.99" W 104° 8' 48.83"	
	3700.00	8.00	87.01	3674.26	18.32	19.85	379.95	0.00	381561.00	557777.72	N 32° 2' 56.00" W 104° 8' 48.67"	
	3800.00	8.00	87.01	3773.29	18.99	20.57	393.85	0.00	381561.72	557791.62	N 32° 2' 56.01" W 104° 8' 48.50"	
	3900.00	8.00	87.01	3872.32	19.66	21.30	407.75	0.00	381562.45	557805.51	N 32° 2' 56.01" W 104° 8' 48.34"	
	4000.00	8.00	87.01	3971.34	20.33	22.03	421.65	0.00	381563.17	557819.41	N 32° 2' 56.02" W 104° 8' 48.18"	
Drop .75"/100ft	4048.96	8.00	87.01	4019.82	20.66	22.38	428.45	0.00	381563.53	557826.21	N 32° 2' 56.02" W 104° 8' 48.10"	
	4100.00	7.62	87.01	4070.39	21.00	22.74	435.38	0.75	381563.89	557833.14	N 32° 2' 56.03" W 104° 8' 48.02"	
	4200.00	6.87	87.01	4169.59	21.60	23.40	447.97	0.75	381564.55	557845.73	N 32° 2' 56.03" W 104° 8' 47.88"	
	4300.00	6.12	87.01	4268.95	22.15	23.99	459.26	0.75	381565.14	557857.02	N 32° 2' 56.04" W 104° 8' 47.74"	
	4400.00	5.37	87.01	4368.45	22.63	24.51	469.25	0.75	381565.66	557867.01	N 32° 2' 56.04" W 104° 8' 47.63"	
Brushy Canyon (BCN)	4478.95	4.78	87.01	4447.09	22.96	24.88	476.22	0.75	381566.02	557873.98	N 32° 2' 56.05" W 104° 8' 47.55"	
	4500.00	4.62	87.01	4468.07	23.05	24.97	477.94	0.75	381566.11	557875.70	N 32° 2' 56.05" W 104° 8' 47.53"	
	4600.00	3.87	87.01	4567.80	23.40	25.35	485.33	0.75	381566.50	557883.08	N 32° 2' 56.05" W 104° 8' 47.44"	
	4700.00	3.12	87.01	4667.61	23.70	25.67	491.41	0.75	381566.82	557889.17	N 32° 2' 56.06" W 104° 8' 47.37"	
	4800.00	2.37	87.01	4767.49	23.93	25.92	496.19	0.75	381567.07	557893.94	N 32° 2' 56.06" W 104° 8' 47.31"	
	4900.00	1.62	87.01	4867.43	24.10	26.10	499.66	0.75	381567.25	557897.42	N 32° 2' 56.06" W 104° 8' 47.27"	
	5000.00	0.87	87.01	4967.41	24.20	26.21	501.83	0.75	381567.36	557899.58	N 32° 2' 56.06" W 104° 8' 47.25"	
	5100.00	0.12	87.01	5067.40	24.24	26.26	502.68	0.75	381567.41	557900.44	N 32° 2' 56.06" W 104° 8' 47.24"	
Hold Vertical	5115.64	0.00	87.01	5083.04	24.24	26.26	502.70	0.75	381567.41	557900.45	N 32° 2' 56.06" W 104° 8' 47.24"	
	5200.00	0.00	87.01	5167.40	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32° 2' 56.06" W 104° 8' 47.24"	
	5300.00	0.00	87.01	5267.40	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32° 2' 56.06" W 104° 8' 47.24"	
	5400.00	0.00	87.01	5367.40	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32° 2' 56.06" W 104° 8' 47.24"	
	5500.00	0.00	87.01	5467.40	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32° 2' 56.06" W 104° 8' 47.24"	
	5600.00	0.00	87.01	5567.40	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32° 2' 56.06" W 104° 8' 47.24"	
	5700.00	0.00	87.01	5667.40	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32° 2' 56.06" W 104° 8' 47.24"	
	5800.00	0.00	87.01	5767.40	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32° 2' 56.06" W 104° 8' 47.24"	
	5900.00	0.00	87.01	5867.40	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32° 2' 56.06" W 104° 8' 47.24"	
	6000.00	0.00	87.01	5967.40	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32° 2' 56.06" W 104° 8' 47.24"	
Bone Spring Lime (BSGL)	6071.55	0.00	87.01	6038.95	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32° 2' 56.06" W 104° 8' 47.24"	
	6100.00	0.00	87.01	6067.40	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32° 2' 56.06" W 104° 8' 47.24"	
Avalon Upper (AVU)	6177.01	0.00	87.01	6144.41	24.24	26.26	502.70	0.00	381567.41	557900.45		



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 ° ' ")	
First Bone Spring (FBS)	6900.00	0.00	87.01	6867.40	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32 2 56.06 W 104 8 47.24		
	6951.40	0.00	87.01	6918.80	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32 2 56.06 W 104 8 47.24		
	7000.00	0.00	87.01	6967.40	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32 2 56.06 W 104 8 47.24		
	7100.00	0.00	87.01	7067.40	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32 2 56.06 W 104 8 47.24		
	7175.53	0.00	87.01	7142.93	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32 2 56.06 W 104 8 47.24		
First Bone Spring Shale (FBS_SH)	7200.00	0.00	87.01	7167.40	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32 2 56.06 W 104 8 47.24		
	7300.00	0.00	87.01	7267.40	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32 2 56.06 W 104 8 47.24		
	7400.00	0.00	87.01	7367.40	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32 2 56.06 W 104 8 47.24		
	7472.94	0.00	87.01	7440.34	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32 2 56.06 W 104 8 47.24		
	7500.00	0.00	87.01	7467.40	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32 2 56.06 W 104 8 47.24		
Second Bone Spring Upper (SBU)	7600.00	0.00	87.01	7567.40	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32 2 56.06 W 104 8 47.24		
	7700.00	0.00	87.01	7667.40	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32 2 56.06 W 104 8 47.24		
	7800.00	0.00	87.01	7767.40	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32 2 56.06 W 104 8 47.24		
	7900.00	0.00	87.01	7867.40	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32 2 56.06 W 104 8 47.24		
	7965.41	0.00	87.01	7932.81	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32 2 56.06 W 104 8 47.24		
Second Bone Spring Lower (SBL)	8000.00	0.00	87.01	7967.40	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32 2 56.06 W 104 8 47.24		
	8100.00	0.00	87.01	8067.40	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32 2 56.06 W 104 8 47.24		
	8200.00	0.00	87.01	8167.40	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32 2 56.06 W 104 8 47.24		
	8300.00	0.00	87.01	8267.40	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32 2 56.06 W 104 8 47.24		
	8400.00	0.00	87.01	8367.40	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32 2 56.06 W 104 8 47.24		
Third Bone Spring First Carb (TB1C)	8500.00	0.00	87.01	8467.40	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32 2 56.06 W 104 8 47.24		
	8545.08	0.00	87.01	8512.48	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32 2 56.06 W 104 8 47.24		
	8600.00	0.00	87.01	8567.40	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32 2 56.06 W 104 8 47.24		
	8700.00	0.00	87.01	8667.40	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32 2 56.06 W 104 8 47.24		
	8730.64	0.00	87.01	8698.04	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32 2 56.06 W 104 8 47.24		
KOP, Build 10"/100ft	8730.64		87.01	8698.04	24.24	26.26	502.70	0.00	381567.41	557900.45	N 32 2 56.06 W 104 8 47.24		
Third Bone Spring (TBS)	8757.29	2.66	358.95	8724.68	24.86	26.88	502.69	10.00	381568.03	557900.44	N 32 2 56.07 W 104 8 47.24		
	8800.00	6.94	358.95	8767.23	28.43	30.45	502.62	10.00	381571.60	557900.38	N 32 2 56.10 W 104 8 47.24		
	8900.00	16.94	358.95	8864.95	49.09	51.11	502.25	10.00	381592.25	557900.00	N 32 2 56.31 W 104 8 47.24		
	9000.00	26.94	358.95	8957.59	86.40	88.41	501.57	10.00	381629.55	557899.32	N 32 2 56.68 W 104 8 47.25		
	9100.00	36.94	358.95	9042.35	139.22	141.23	500.60	10.00	381682.37	557898.36	N 32 2 57.20 W 104 8 47.26		
Wolfcamp A (WCA)	9148.20	41.76	358.95	9079.61	169.77	171.78	500.04	10.00	381712.91	557897.80	N 32 2 57.50 W 104 8 47.27		
	9200.00	46.94	358.95	9116.64	205.96	207.97	499.38	10.00	381749.10	557897.14	N 32 2 57.86 W 104 8 47.27		
	9300.00	56.94	358.95	9178.22	284.58	286.59	497.95	10.00	381827.71	557895.71	N 32 2 58.64 W 104 8 47.29		
	9400.00	66.94	358.95	9225.20	372.71	374.70	496.34	10.00	381915.82	557894.10	N 32 2 59.51 W 104 8 47.31		
	9500.00	76.94	358.95	9256.17	467.65	469.64	494.61	10.00	382010.75	557892.37	N 32 3 0.45 W 104 8 47.32		
Wolfcamp A Target 4	9600.00	86.94	358.95	9270.18	566.52	568.51	492.81	10.00	382109.61	557890.56	N 32 3 1.43 W 104 8 47.34		
	9601.16	87.05	358.95	9270.24	567.69	569.67	492.79	10.00	382110.77	557890.54	N 32 3 1.44 W 104 8 47.34		
	9631.39	90.07	358.95	9271.00	597.89	599.87	492.23	10.00	382140.97	557889.99	N 32 3 1.74 W 104 8 47.35		
	FTP Cross	9631.54	90.07	358.95	9271.00	598.05	600.03	492.23	0.00	382141.13	557889.99	N 32 3 1.74 W 104 8 47.35	
	9700.00	90.07	358.95	9270.91	666.50	668.47	490.98	0.00	382209.57	557888.74	N 32 3 2.42 W 104 8 47.36		
Wolfcamp A Target 4	9800.00	90.07	358.95	9270.78	766.49	768.46	489.16	0.00	382309.54	557886.92	N 32 3 3.41 W 104 8 47.38		
	9900.00	90.07	358.95	9270.65	866.48	868.44	487.34	0.00	382409.51	557885.09	N 32 3 4.40 W 104 8 47.40		
	10000.00	90.07	358.95	9270.52	966.47	968.42	485.51	0.00	382509.49	557883.27	N 32 3 5.39 W 104 8 47.42		
	10100.00	90.07	358.95	9270.38	1066.46	1068.41	483.69	0.00	382609.46	557881.44	N 32 3 6.37 W 104 8 47.44		
	10200.00	90.07	358.95	9270.25	1166.45	1168.39	481.86	0.00	382709.44	557879.62	N 32 3 7.36 W 104 8 47.46		
	10210.38	90.07	358.95	9270.24	1176.83	1178.77	481.67	0.00	382719.81	557879.43	N 32 3 7.47 W 104 8 47.46		
	10300.00	90.07	358.95	9270.12	1266.44	1268.37	480.04	0.00	382809.41	557877.80	N 32 3 8.35 W 104 8 47.48		
	10400.00	90.07	358.95	9269.99	1366.43	1368.36	478.22	0.00	382909.39	557875.97	N 32 3 9.34 W 104 8 47.50		
	10500.00	90.07	358.95	9269.86	1466.42	1468.34	476.39	0.00	383009.36	557874.15	N 32 3 10.33 W 104 8 47.52		
	10600.00	90.07	358.95	9269.73	1566.41	1568.32	474.57	0.00	383109.33	557872.32	N 32 3 11.32 W 104 8 47.54		
	10700.00	90.07	358.95	9269.60	1666.40	1668.31	472.74	0.00	383209.31	557870.50	N 32 3 12.31 W 104 8 47.55		
	10800.00	90.07	358.95	9269.47	1766.39	1768.29	470.92	0.00	383309.28	557868.68	N 32 3 13.30 W 104 8 47.57		
	10900.00	90.07	358.95	9269.34	1866.38	1868.27	469.10	0.00	383409.26	557866.85	N 32 3 14.29 W 104 8 47.59		
	11000.00	90.07	358.95	9269.21	1966.37	1968.26	467.27	0.00	383509.23	557865.03	N 32 3 15.28 W 104 8 47.61		
	11100.00	90.07	358.95	9269.08	2066.36	2068.24	465.45	0.00	383609.21	557863.21	N 32 3 16.27 W 104 8 47.63		
	11200.00	90.07	358.95	9268.95	2166.35	2168.22	463.62	0.00	383709.18	557861.38	N 32 3 17.26 W 104 8 47.65		
	11300.00	90.07	358.95	9268.81	2266.34	2268.21	461.80	0.00	383809.16	557859.56	N 32 3 18.25 W 104 8 47.67		
	11400.00	90.07	358.95	9268.68	2366.33	2368.19	459.97	0.00	383909.13	557857.73	N 32 3 19.24 W 104 8 47.69		
	11500.00	90.07	358.95	9268.55	2466.31	2468.17	458.15	0.00	384009.10	557855.91	N 32 3 20.23 W 104 8 47.71		
	11600.00	90.07	358.95	9268.42	2566.30	2568.16	456.33	0.00	384109.08	557854.09	N 32 3 21.22 W 104 8 47.73		
	11700.00	90.07	358.95	9268.29	2666.29	2668.14	454.50	0.00	384209.05	557852.26	N 32 3 22.21 W 104 8 47.75		
	11800.00	90.07	358.95	9268.16	2766.28	2768.12	452.68	0.00	384309.03	557850.44	N 32 3 23.20 W 104 8 47.77		
	11900.00	90.07	358.95	9268.03	2866.27	2868.11	450.85	0.00	384409.00	557848.61	N 32 3 24.18 W 104 8 47.78		
	12000.00	90.07	358.95	9267.90	2966.26	2968.09	449.03	0.00	384508.98	557846.79	N 32 3 25.17 W 104 8 47.80		
	12100.00	90.07	358.95	9267.77	3066.25	3068.07	447.21	0.00	384608.95	557844.97	N 32 3 26.16 W 104 8 4		

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 ° ' ")
IFP2, Build 2"/100ft Hold	16000.00	89.94	0.55	9266.72	6965.87	6967.59	413.22	0.00	388508.12	557810.99	N 32 4 4.75 W 104	8 48.14
	16100.00	89.94	0.55	9266.82	7065.86	7067.58	414.18	0.00	388608.10	557811.95	N 32 4 5.74 W 104	8 48.13
	16200.00	89.94	0.55	9266.92	7165.85	7167.58	415.14	0.00	388708.09	557812.91	N 32 4 6.73 W 104	8 48.11
	16285.92	89.94	0.55	9267.00	7251.77	7253.50	415.97	0.00	388794.00	557813.73	N 32 4 7.58 W 104	8 48.10
	16291.89	90.06	0.55	9267.00	7257.73	7259.46	416.03	2.00	388799.96	557813.79	N 32 4 7.64 W 104	8 48.10
	16300.00	90.06	0.55	9266.99	7265.84	7267.57	416.10	0.00	388808.08	557813.87	N 32 4 7.72 W 104	8 48.10
	16400.00	90.06	0.55	9266.88	7365.84	7367.57	417.06	0.00	388908.06	557814.82	N 32 4 8.71 W 104	8 48.09
	16500.00	90.06	0.55	9266.77	7465.83	7467.56	418.01	0.00	389008.05	557815.77	N 32 4 9.70 W 104	8 48.07
	16600.00	90.06	0.55	9266.66	7565.82	7567.56	418.96	0.00	389108.03	557816.72	N 32 4 10.69 W 104	8 48.06
	16700.00	90.06	0.55	9266.55	7665.81	7667.55	419.91	0.00	389208.02	557817.67	N 32 4 11.68 W 104	8 48.05
	16800.00	90.06	0.55	9266.43	7765.80	7767.55	420.86	0.00	389308.01	557818.62	N 32 4 12.67 W 104	8 48.03
	16900.00	90.06	0.55	9266.32	7865.79	7867.55	421.81	0.00	389407.99	557819.58	N 32 4 13.66 W 104	8 48.02
	17000.00	90.06	0.55	9266.21	7965.78	7967.54	422.76	0.00	389507.98	557820.53	N 32 4 14.65 W 104	8 48.01
	17100.00	90.06	0.55	9266.10	8065.77	8067.54	423.72	0.00	389607.97	557821.48	N 32 4 15.64 W 104	8 48.00
	17200.00	90.06	0.55	9265.99	8165.76	8167.53	424.67	0.00	389707.95	557822.43	N 32 4 16.63 W 104	8 47.98
	17300.00	90.06	0.55	9265.88	8265.75	8267.53	425.62	0.00	389807.94	557823.38	N 32 4 17.62 W 104	8 47.97
	17400.00	90.06	0.55	9265.77	8365.74	8367.52	426.57	0.00	389907.93	557824.33	N 32 4 18.61 W 104	8 47.96
	17500.00	90.06	0.55	9265.66	8465.73	8467.52	427.52	0.00	390007.91	557825.28	N 32 4 19.60 W 104	8 47.94
	17600.00	90.06	0.55	9265.54	8565.72	8567.51	428.47	0.00	390107.90	557826.24	N 32 4 20.58 W 104	8 47.93
	17700.00	90.06	0.55	9265.43	8665.72	8667.51	429.43	0.00	390207.89	557827.19	N 32 4 21.57 W 104	8 47.92
	17800.00	90.06	0.55	9265.32	8765.71	8767.50	430.38	0.00	390307.87	557828.14	N 32 4 22.56 W 104	8 47.90
	17900.00	90.06	0.55	9265.21	8865.70	8867.50	431.33	0.00	390407.86	557829.09	N 32 4 23.55 W 104	8 47.89
	18000.00	90.06	0.55	9265.10	8965.69	8967.50	432.28	0.00	390507.85	557830.04	N 32 4 24.54 W 104	8 47.88
	18100.00	90.06	0.55	9264.99	9065.68	9067.49	433.23	0.00	390607.83	557830.99	N 32 4 25.53 W 104	8 47.86
	18200.00	90.06	0.55	9264.88	9165.67	9167.49	434.18	0.00	390707.82	557831.94	N 32 4 26.52 W 104	8 47.85
	18300.00	90.06	0.55	9264.77	9265.66	9267.48	435.13	0.00	390807.81	557832.90	N 32 4 27.51 W 104	8 47.84
	18400.00	90.06	0.55	9264.65	9365.65	9367.48	436.09	0.00	390907.79	557833.85	N 32 4 28.50 W 104	8 47.83
	18500.00	90.06	0.55	9264.54	9465.64	9467.47	437.04	0.00	391007.78	557834.80	N 32 4 29.49 W 104	8 47.81
	18600.00	90.06	0.55	9264.43	9565.63	9567.47	437.99	0.00	391107.76	557835.75	N 32 4 30.48 W 104	8 47.80
	18700.00	90.06	0.55	9264.32	9665.62	9667.46	438.94	0.00	391207.75	557836.70	N 32 4 31.47 W 104	8 47.79
	18800.00	90.06	0.55	9264.21	9765.61	9767.46	439.89	0.00	391307.74	557837.65	N 32 4 32.46 W 104	8 47.77
	18900.00	90.06	0.55	9264.10	9865.60	9867.45	440.84	0.00	391407.72	557838.61	N 32 4 33.45 W 104	8 47.76
	19000.00	90.06	0.55	9263.99	9965.60	9967.45	441.80	0.00	391507.71	557839.56	N 32 4 34.44 W 104	8 47.75
	19100.00	90.06	0.55	9263.88	10065.59	10067.44	442.75	0.00	391607.70	557840.51	N 32 4 35.43 W 104	8 47.73
	19200.00	90.06	0.55	9263.76	10165.58	10167.44	443.70	0.00	391707.68	557841.46	N 32 4 36.42 W 104	8 47.72
	19300.00	90.06	0.55	9263.65	10265.57	10267.44	444.65	0.00	391807.67	557842.41	N 32 4 37.41 W 104	8 47.71
	19400.00	90.06	0.55	9263.54	10365.56	10367.43	445.60	0.00	391907.66	557843.36	N 32 4 38.40 W 104	8 47.69
	19500.00	90.06	0.55	9263.43	10465.55	10467.43	446.55	0.00	392007.64	557844.31	N 32 4 39.39 W 104	8 47.68
	19600.00	90.06	0.55	9263.32	10565.54	10567.42	447.51	0.00	392107.63	557845.27	N 32 4 40.37 W 104	8 47.67
LTP Cross	19607.38	90.06	0.55	9263.31	10572.92	10574.80	447.58	0.00	392115.01	557845.34	N 32 4 40.45 W 104	8 47.67
	19700.00	90.06	0.55	9263.21	10665.53	10667.42	448.46	0.00	392207.62	557846.22	N 32 4 41.36 W 104	8 47.66
	19800.00	90.06	0.55	9263.10	10765.52	10767.41	449.41	0.00	392307.60	557847.17	N 32 4 42.35 W 104	8 47.64
Cicada Unit 58H BHL	19887.41	90.06	0.55	9263.00	10852.92	10854.82	450.24	0.00	392395.00	557848.00	N 32 4 43.22 W 104	8 47.63

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 Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	28.000	1/100.000	17.500	13.375	B001Mb_MWD+HRGM-Depth Only	Cicada Unit 58H / Cicada Unit 58H R0 mdv 09Jun21
	1	28.000	450.000	1/100.000	17.500	13.375	B001Mb_MWD+HRGM	Cicada Unit 58H / Cicada Unit 58H R0 mdv 09Jun21
	1	450.000	2211.243	1/100.000	12.250	9.625	B001Mb_MWD+HRGM	Cicada Unit 58H / Cicada Unit 58H R0 mdv 09Jun21
	1	2211.243	9268.297	1/100.000	8.750	7.000	B001Mb_MWD+HRGM	Cicada Unit 58H / Cicada Unit 58H R0 mdv 09Jun21
	1	9268.297	19887.409	1/100.000	6.125	4.500	B001Mb_MWD+HRGM	Cicada Unit 58H / Cicada Unit 58H R0 mdv 09Jun21

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	CHEVRON USA INCORPORATED
<b>LEASE NO.:</b>	NMNM116028
<b>LOCATION:</b>	Section 13, T.26 S., R.27 E., NMP
<b>COUNTY:</b>	Eddy County, New Mexico

<b>WELL NAME &amp; NO.:</b>	CICADA UNIT 56H
<b>SURFACE HOLE FOOTAGE:</b>	270'/N & 1112'/W
<b>BOTTOM HOLE FOOTAGE:</b>	50'/N & 330'/W

<b>WELL NAME &amp; NO.:</b>	CICADA UNIT 57H
<b>SURFACE HOLE FOOTAGE:</b>	270'/N & 1132'/W
<b>BOTTOM HOLE FOOTAGE:</b>	50'/N & 990'/W

<b>WELL NAME &amp; NO.:</b>	CICADA UNIT 58H
<b>SURFACE HOLE FOOTAGE:</b>	270'/N & 1152'/W
<b>BOTTOM HOLE FOOTAGE:</b>	50'/N & 1650'/W

<b>WELL NAME &amp; NO.:</b>	CICADA UNIT 59H
<b>SURFACE HOLE FOOTAGE:</b>	270'/N & 1172'/W
<b>BOTTOM HOLE FOOTAGE:</b>	50'/N & 2310'/W

COA

H2S	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input type="radio"/> Low	<input type="radio"/> Medium	<input checked="" type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input type="radio"/> Multibowl	<input checked="" type="radio"/> Both
Other	<input type="checkbox"/> 4 String Area	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input type="checkbox"/> Fluid Filled	<input type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input type="checkbox"/> COM	<input checked="" type="checkbox"/> Unit

### A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

**B. CASING****Casing Design:**

1. The **13-3/8** inch surface casing shall be set at approximately **450** feet (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite and above the salt) 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 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 **9-5/8** inch intermediate casing shall be set at approximately **2334** feet. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

**Option 1 (Single Stage):**

- 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 or potash.**

**Option 2:**

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
  - Cement to surface. If cement does not circulate, contact the appropriate BLM office.

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

- ❖ In **High 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:

**Option 1 (Single Stage):**

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

**Option 2:**

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
  - b. Second stage above DV tool:
    - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
4. The minimum required fill of cement behind the **5 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.

**Option 1:**

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M)** psi.

- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **5000 (5M)** psi.

### **Option 2:**

1. 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.
  - 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 OOGO2.III.A.2.i must be followed.

## **D. SPECIAL REQUIREMENT (S)**

### **Unit Wells**

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

### **Commercial Well Determination**

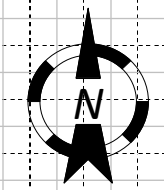
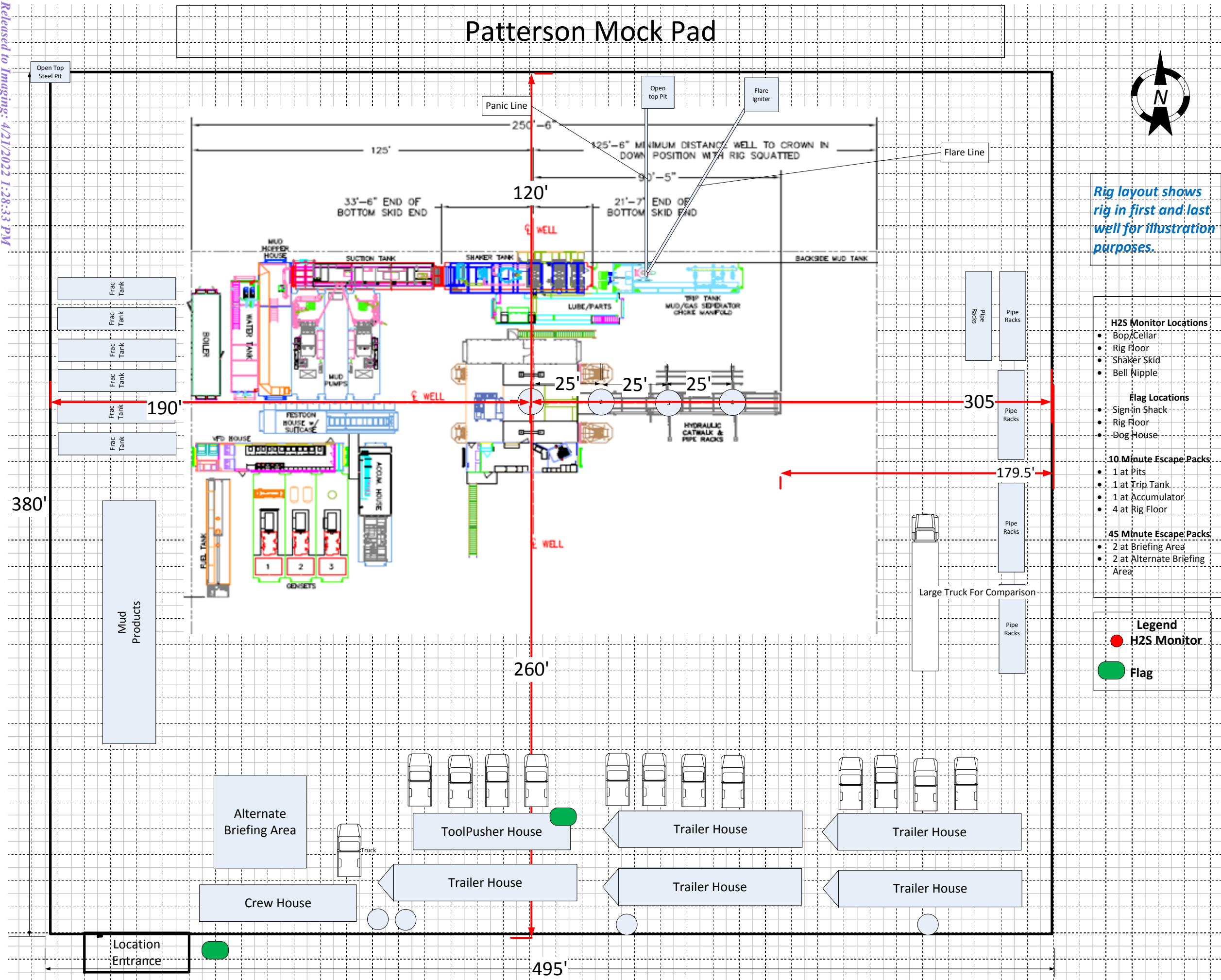
A commercial well determination shall be submitted after production has been established for at least six months.

### **BOPE Break Testing Variance**

- BOPE Break Testing is ONLY permitted for 5M BOPE or less.
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- 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 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.
- 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.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.







# BLOWOUT PREVENTER SCHEMATIC

Operation:

Intermediate &amp; Production Drilling Operations

Minimum System operation pressure

5,000 psi

## BOP Stack

Part	Size	Pressure Rating	Description
<b>A</b>	13-5/8"	N/A	Rotating Head/Bell nipple
<b>B</b>	13-5/8"	5,000	Annular
<b>C</b>	13-5/8"	10,000	Blind Ram
<b>D</b>	13-5/8"	10,000	Pipe Ram
<b>E</b>	13-5/8"	10,000	Mud Cross
<b>F</b>	13-5/8"	10,000	Pipe Ram

## Kill Line

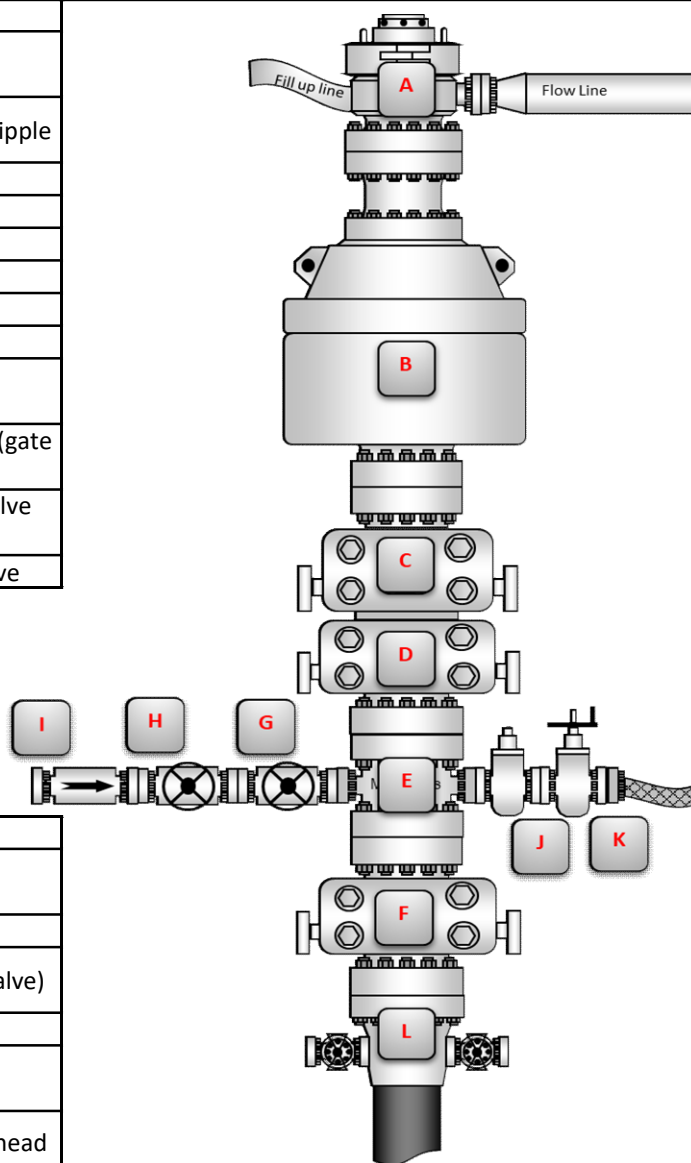
Part	Size	Pressure Rating	Description
<b>G</b>	2"	10,000	Inside Kill Line Valve (gate valve)
<b>H</b>	2"	10,000	Outside Kill Line Valve (gate valve)
<b>I</b>	2"	10,000	Kill Line Check valve

## Choke line

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

## Wellhead

Part	Size	Pressure Rating	Description
<b>L</b>	13-5/8"	5,000	FMC Multibowl wellhead



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

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

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

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

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

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

**District I**

1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 99724

**CONDITIONS**

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 99724
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

**CONDITIONS**

Created By	Condition	Condition Date
kpickford	Notify OCD 24 hours prior to casing & cement	4/21/2022
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	4/21/2022
kpickford	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	4/21/2022
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	4/21/2022
kpickford	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	4/21/2022