Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. DRILL REENTER 1a. Type of work: 1b. Type of Well: Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone Multiple Zone [323141] 2. Name of Operator 9. API Well No. 30-025-50141 [4323] 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory [96715] XXXXXXXXXXXXXX 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area At surface At proposed prod. zone 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, applied for, on this lease, ft. 23. Estimated duration 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 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. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above) 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the SUPO must be filed with the appropriate Forest Service Office). 25. Signature Name (Printed/Typed) Date Title Approved by (Signature) Name (Printed/Typed) Date Title Office Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. NGMP Rec 05/02/2022 APPROVED WITH CONDITIONS SL (Continued on page 2) *(Instructions on page 2)

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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

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

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District IV

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

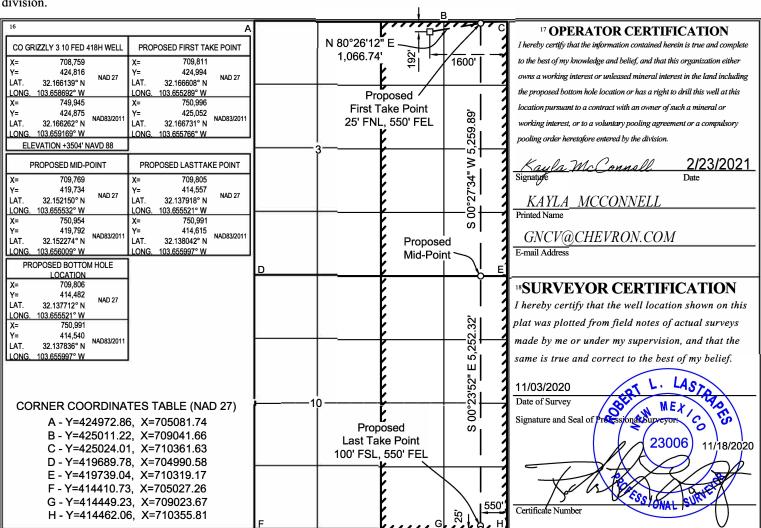
■ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| 30-02 | ¹ API Number 25-50141 | | ² Pool C 967] | | | WC-0 | E SPRING | SPRING | | | | |
|----------------------|---|--|---|------------------|--------------|------|----------|--------|-----|-----------|--------|--|
| ⁴ Propert | y Code | | ⁵ Property Name ⁶ Well Number | | | | | | | | | |
| 32314 | 1 | CO GRIZZLY 3 10 FED 418H | | | | | | | | | | |
| ⁷ OGRI | | | | 8 O _l | perator Name | | | | 9 | Elevation | | |
| 432 | 3 | CHEVRON U.S.A. INC. 3504' | | | | | | | | | | |
| - | | ¹⁰ Surface Location | | | | | | | .00 | | | |
| UL or lot no. | Section Tov | wnship Range Lot Idn Feet from the North/South line Feet from the East/West line | | | | | | | | | County | |

| - 1 | | | | " | 1 | | | l | | 1 1 |
|-----|----------------|------------|---------------|----------------------------------|------------------------|---------------|------------------|---------------|----------------|---------------|
| | В | 3 | 25 SOUTH | 32 EAST, N.M.P.M. | | 192' | NORTH | 1600' | EAST | LEA |
| - | | | 224 | 11 Bottom I | Iole Loca | tion If Diff | erent From S | Surface | | 71 <u>9</u> 4 |
| | UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| | P | 10 | 25 SOUTH | 32 EAST, N.M.P.M. | 30 | 25' | SOUTH | 550' | EAST | LEA |
| | 12 Dedicated A | cres 13 Jo | int or Infill | ¹⁴ Consolidation Code | ⁵ Order No. | | | | | |
| | 639.87 | · | | | | | | | | |

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.



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: Che | vron USA | | OGRID: _ | 4323 | | Date: 1 / 12 / 22 | | |
|---|----------------------|----------------------------|-------------------------|--------------------------|--------------------------|----------------------------------|--|--|
| II. Type: ⊠ Original □ A | Amendment | due to □ 19.15.2 | 7.9.D(6)(a) NMA | C □ 19.15.27.9.D | (6)(b) NMAC □ | Other. | | |
| If Other, please describe: _ | | | | | | | | |
| III. Well(s): Provide the fobe recompleted from a sing | | | | | wells proposed to | o be drilled or proposed to | | |
| Well Name | API | ULSTR | Footages | Anticipated Oil BBL/D | Anticipated Gas MCF/D | Anticipated Produced Water BBL/D | | |
| CO Grizzly 3 10 FED 416H | Pending | UL:H, SEC 3, T25S- R32E | 192' FNL, 1,675' FEL | 2,000 | 3,570 | 1,990 | | |
| CO Grizzly 3 34 FED 417H | Pending | UL:H, SEC 3, T25S- R32E | 192' FNL, 1,650' FEL | 2,000 | 3,570 | 1,990 | | |
| CO Grizzly 3 34 FED 418H 30 | Pending -025-5014 | UL:H, SEC 3, T25S- R32E | 192' FNL, 1,600' FEL | 2,000 | 3,570 | 1,990 | | |
| CO Grizzly 34 27 FED COM 407H | Pending | UL:H, SEC 3, T25S- R32E | 192' FNL, 1,700' FEL | 2,000 | 3,570 | 1,990 | | |
| CO Grizzly 34 27 FED COM 408H | Pending | UL:H, SEC 3, T25S- R32E | 192' FNL, 1,625' FEL | 2,000 | 3,570 | 1,990 | | |
| CO Grizzly 34 27 FED COM 409H | Pending | UL:H, SEC 3, T25S- R32E | 192' FNL, 1,575' FEL | 2,000 | 3,570 | 1,990 | | |
| | | | | | | | | |
| | | | | | | | | |
| IV. Central Delivery Poin | t Name: | Cotton Dr | raw Sec #3 CTB | | [See 19.15.27.9 | (D)(1) NMAC] | | |
| V. Anticipated Schedule: proposed to be recompleted | | | | | vell or set of well | s proposed to be drilled or | | |

Page 1 of 5

| Well Name | API | Spud Date | TD Reached | Completion | Initial Flow | First Production |
|------------------|--------------|--------------------|------------|-------------------|--------------|------------------|
| | | | Date | Commencement Date | Back Date | Date |
| | Pending | August 28, 2022 | N/A | N/A | N/A | N/A |
| CO Grizzly 3 10 | | | | | | |
| FED 416H | | | | | | |
| | Pending | September 15, 2022 | N/A | N/A | N/A | N/A |
| CO Grizzly 3 10 | | | | | | |
| FED 417H | | | | | | |
| | Pending | October 3, 2022 | N/A | N/A | N/A | N/A |
| CO Grizzly 3 34 | 20 025 50141 | | | | | |
| FED 418H | 30-025-50141 | | | | | |
| | Pending | November 8, 2022 | N/A | N/A | N/A | N/A |
| | | | | | | |
| CO Grizzly 34 27 | | | | | | |
| FED COM 407H | | | | | | |
| | Pending | November 26, 2022 | N/A | N/A | N/A | N/A |
| | | | | | | |
| CO Grizzly 34 27 | | | | | | |
| FED COM 408H | D 1: | D 1 14 2022 | 27/4 | 27/4 | 27/4 | 27/4 |
| | Pending | December 14, 2022 | N/A | N/A | N/A | N/A |
| 00.01.1.2/2- | | | | | | |
| CO Grizzly 34 27 | | | | | | |
| FED COM 409H | | | | | | |

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 |
|----------|--------|-----------------|----------------------------------|---|
| | | | | , , |
| | | | | |

Page 2 of 5

| 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 \square will \square 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 \square does \square 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) |
| \square 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 informatio for which confidentiality is asserted and the basis for such assertion. |

Section 3 - Certifications <u>Effective May 25, 2021</u>

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.

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;

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

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

Section 4 - Notices

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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

| Signature: Cindy Herrera-Murillo |
|---|
| Printed Name: CNDY HERRERA-MURILLO |
| Title: SR REGULATORY AFFAIRS COORDINATOR |
| E-mail Address: eeof@chevron.com |
| Date: 1/12/2022 |
| Phone: 575=263-0431 |
| OIL CONSERVATION DIVISION |
| (Only applicable when submitted as a standalone form) |
| Approved By: |
| Title: |
| Approval Date: |
| Conditions of Approval: |
| |
| |
| |
| |

VI. Separation Equipment:

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

VII./VIII. Operational & Best Management Practices:

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

2. During Drilling Operations:

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

3. During Completions:

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

4. During Production:

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

5. Performance Standards

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

6. Measurement or Estimation of Vented and Flared Natural Gas

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

Well Name: CO GRIZZLY 3 10 FED Well Number: 418H

Variance request: Chevron requests a variance to use a FMC Technologies UH-S Multibowl wellhead, which will be run through the rig floor on surface casing. BOPE will be nippled up and tested after cementing surface casing. Subsequent tests will be performed as needed, not to exceed 30 days. The field report from FMC Technologies and BOP test information will be provided in a subsequent report at the end of the well. Please see the attached wellhead schematic. An installation manual has been placed on file with the BLM office and remains unchanged from previous submittal. All tests performed by 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 break test will NOT be performed on our last production section. A break test will only be performed on operations where BLM documentation states a 5M or less BOP can be utilized. We will test seals that have been broken individually between full BOP tests. Time between tests for a single test or full test will not exceed 21 days.

Testing Procedure: Stack will be tested as specified in the attached testing requirements, upon NU and not to exceed 30 days. Test BOP from 250 psi to 5000 psi in Ram and 250 psi to 3500 psi in annular. BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. Batch drilling of the surface, intermediate, and production will take place. A full BOP test will be performed unless approval from the BLM is received otherwise. Flex choke hose will be used for all wells on the pad. BOP test will be conducted by a third party.

Choke Diagram Attachment:

Choke Flex Hose 2 20200326061721.pdf

CoFlex_Hose_Variance_Salanova_20200326061802.pdf

BLM_5M_Choke_Manifold_Diagram_20210302123822.pdf

BOP Diagram Attachment:

BLM_5M_Annular_10M_Stack_BOP_Choke_Schematic_20200326062158.pdf

NM_Slim_Hole_Wellhead_6650_psi_UH_S_20210302123738.pdf

Grizzly_WOC_Variance_20211105083148.pdf

Grizzly_Break_Test_Variance_20211105083201.pdf

Section 3 - Casing

| Casing ID | String Type | Hole Size | Csg Size | Condition | Standard | Tapered String | Top Set MD | Bottom Set MD | Top Set TVD | Bottom Set TVD | Top Set MSL | Bottom Set MSL | Calculated casing length MD | Grade | Weight | Joint Type | Collapse SF | Burst SF | Joint SF Type | Joint SF | Body SF Type | Body SF |
|-----------|------------------|-----------|----------|-----------|----------|----------------|------------|---------------|-------------|----------------|-------------|----------------|-----------------------------|-----------|--------|-----------------|-------------|----------|---------------|----------|--------------|---------|
| 1 | SURFACE | 16 | 13.375 | NEW | API | N | 0 | 1100 | 0 | 1100 | 3504 | 2404 | 1100 | J-55 | 54.5 | ST&C | 2.44 | 1.7 | DRY | 4.72 | DRY | 1.8 |
| - 1 | INTERMED IATE | 12.2 5 | 9.625 | NEW | API | N | 0 | 4600 | 0 | 4600 | 3504 | -1096 | 4600 | L-80 | - | OTHER - BTC | 1.78 | 1.34 | DRY | 2.7 | DRY | 1.63 |
| 3 | PRODUCTI ON | 8.75 | 7.0 | NEW | API | N | 0 | 8750 | 0 | 8750 | 3554 | -5246 | 8750 | OTH ER | | OTHER - BLUE | 5.82 | 1.15 | DRY | 2.77 | DRY | 1.24 |

Well Name: CO GRIZZLY 3 10 FED Well Number: 418H

| 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 |
|-----------|-------------|-----------|----------|-----------|----------|----------------|------------|---------------|-------------|----------------|-------------|----------------|--------------------------------|-----------|--------|-------------------|-------------|----------|---------------|----------|--------------|---------|
| 4 | LINER | 6.12 5 | 5.0 | NEW | API | N | 8450 | 10600 | 8450 | 10450 | -4946 | -6946 | | P- 110 | | OTHER - W- 513 | 1.32 | 1.11 | DRY | 1.38 | DRY | 1.16 |
| 5 | LINER | 6.12 5 | 4.5 | NEW | API | N | 10600 | 21465 | 10450 | 10450 | -6946 | -6946 | 10865 | P- 110 | - | OTHER - W- 521 | 1.32 | 1.11 | DRY | 1.38 | DRY | 1.16 |

| Casing A | Attachments |
|----------|-------------|
|----------|-------------|

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

13.375_54.5ppf_J55_STC_20210909124654.pdf

Casing ID: 2 String INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

9.625_40ppf_L80_ICY_BTC_20210909124716.pdf

Well Name: CO GRIZZLY 3 10 FED Well Number: 418H

| Casing Attachments |
|--------------------|
|--------------------|

Casing ID: 3

String

PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

7_29ppf_TN110SS_TSH_Blue_20210909124737.pdf

Casing ID: 4

String

LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

5_18ppf_P110_Flush_W513_20210909124757.pdf

Casing ID: 5

String

LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

4.5_11.6ppf_P110_TSH_W521_20210909124621.pdf

Section 4 - Cement

Well Name: CO GRIZZLY 3 10 FED Well Number: 418H

| String Type | Lead/Tail | Stage Tool Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
|-------------|-----------|---------------------|--------|-----------|--------------|-------|---------|-------|---------|-------------|--|
| SURFACE | Lead | | 0 | 1100 | 514 | 1.34 | 14.5 | 689 | 100 | | Extender, Antifoam, Retarder, Viscosifier |

| INTERMEDIATE | Lead | | 0 | 3600 | 902 | 2.5 | 11.5 | 2255 | 100 | Class C | Extender, Antifoam, Retarder |
|--------------|------|---|------|-----------|-----|------|------|------|-----|---------|--|
| INTERMEDIATE | Tail | 3 | 3600 | 4600 | 336 | 1.4 | 14.5 | 470 | 50 | CLASS C | EXTENDER;ANTIFOA M;RETARDER |
| PRODUCTION | Lead | 4 | 4100 | 7750 | 329 | 2.5 | 11.5 | 823 | 50 | Class C | Extender, Antifoam, Retarder, Viscosifier |
| PRODUCTION | Tail | 7 | 7750 | 8750 | 134 | 1.4 | 14.5 | 188 | 25 | Class C | Extender, Antifoam, Retarder, Viscosifier |
| LINER | Lead | 3 | 8450 | 2146 5 | 833 | 1.84 | 13.2 | 1532 | 25 | Class C | Extender, Antifoam, Retarder, Viscosifier |

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

Describe what will be on location to control well or mitigate other conditions: Visual mud monitoring equipment shall be in place to detect volume changes indicating loss or gain of circulating fluid volume. When abnormal pressures are anticipated -- a pit volume totalizer (PVT), stroke counter, and flow sensor will be used to detect volume changes indicating loss or gain of circulating fluid volume. A weighting agent and lost circulating material (LCM) will be onsite to mitigate pressure or lost circulation as hole conditions dictate.

Describe the mud monitoring system utilized: A closed system will be used consisting of above ground steel tanks. All wastes accumulated during drilling operations will be contained in a portable trash cage and removed from location and deposited in an approved sanitary landfill. Sanitary wastes will be contained in a chemical porta-toilet and then hauled to an approved sanitary landfill. All fluids and cuttings will be disposed of in accordance with New Mexico Oil Conservation Division rules and regulations. Transportation of E&P waste will follow EPA regulations and accompanying manifests. A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH.

Circulating Medium Table

Well Name: CO GRIZZLY 3 10 FED Well Number: 418H

| Top Depth | Bottom Depth | Mud Type | Min Weight (lbs/gal) | Max Weight (lbs/gal) | Density (lbs/cu ft) | Gel Strength (lbs/100 sqft) | ЬН | Viscosity (CP) | Salinity (ppm) | Filtration (cc) | Additional Characteristics |
|-----------|--------------|----------------------|----------------------|----------------------|---------------------|-----------------------------|----|----------------|----------------|-----------------|-----------------------------------|
| 0 | 1100 | SPUD MUD | 8.3 | 8.9 | | | | | | | VISCOSITY 26-36 FILTRATE 15-25 |
| 0 | 4600 | SALT SATURATED | 8.3 | 10.6 | | | | | | | VISCOSITY 26-36 FILTRATE 15-25 |
| 4600 | 8750 | OTHER : WBM/BRINE | 8.7 | 10.6 | | | | | | | VISCOSITY 26-36 FILTRATE 15-25 |
| 8750 | 2146 5 | OIL-BASED MUD | 8.7 | 10.5 | | | | | | | VISCOSITY 50-70 FILTRATE 5-10 |

Section 6 - Test, Logging, Coring

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

TYPE LOGS INTERVAL TIMING

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

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

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

Coring operation description for the well:

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

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5217 Anticipated Surface Pressure: 2910

Anticipated Bottom Hole Temperature(F): 150

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

Chevron_Standard_H2S_Contingency_Plan_20200506112852_20210909130459.pdf

Well Name: CO GRIZZLY 3 10 FED Well Number: 418H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

CO_GRIZZLY_3_10_Fed_418H_Directional_20211105082714.pdf CO_GRIZZLY_3_10_Fed_418H_9pt_Drilling_Plan_20211105082720.pdf

Other proposed operations facets description:

- Authorization to use the spudder rig to spud the well and set surface casing. The drilling rig will move in less than 90 days to continue drilling operations. Rig layouts attached.
- ***Drilling plan attached contains a contingency cement program.

Chevron formally requests the variances below:

- Authorization to follow Onshore Order 2 Section B - Casing and Cementing Requirements to wait to 500 psi comprehensive strength (CS) of the tail cement slurry, for primary cement operations in both the Surface and Intermediate casing string(s). WOC time is considered the time between bumping the plug (cement in place), until beginning to drill the shoe track. This will ensure that cement will be at sufficient strength prior to performing a shoe test and drilling ahead through the next hole section.

Other proposed operations facets attachment:

CUSA_Spudder_Rig_Data_20210913102343.pdf
CO_Grizzly_3_10_FED_Gas_Capture_Plan_20211105083226.pdf

Other Variance attachment:

Schlumberger

CO Grizzly 3 10 Fed 418H R0 mdv 01Oct20 Proposal Geodetic Report



(Def Plan)

Report Date: January 05, 2021 - 11:20 AM Client: Chevron

Field: NM Lea County (NAD 27)

Structure / Slot: Chevron Cotton Draw Grizzly Pad 1 / 418H CO Grizzly 3 10 Fed 418H Well:

Borehole: CO Grizzly 3 10 Fed 418H UWI / API#: Unknown / Unknown

Survey Name: CO Grizzly 3 10 Fed 418H R0 mdv 01Oct20

Survey Date: Tort / AHD / DDI / ERD Ratio:

January 04, 2021 125.080 ° / 12307.646 ft / 6.498 / 1.173 NAD27 New Mexico State Plane, Eastern Zone, US Feet Coordinate Reference System: N 32° 9' 58.09447", W 103° 39' 31.29546"

Location Lat / Long: Location Grid N/E Y/X: N 424816.000 ftUS, E 708759.000 ftUS

0.3592° CRS Grid Convergence Angle: Grid Scale Factor: 0.999959 Version / Patch: 2.10.824.0 Survey / DLS Computation: Vertical Section Azimuth: Vertical Section Origin: TVD Reference Datum:

TVD Reference Elevation: Seabed / Ground Elevation: Magnetic Declination:

Total Gravity Field Strength: Gravity Model:
Total Magnetic Field Strength:

Magnetic Dip Angle: Declination Date: Magnetic Declination Model:

North Reference: Grid Convergence Used: Total Corr Mag North->Grid North:

Minimum Curvature / Lubinski 180.030 ° (Grid North) 0.000 ft, 0.000 ft RKB = 28ft 3532.000 ft above MSL 3504.000 ft above MSL 6.491°

998.4286mgn (9.80665 Based) GARM 47679.584 nT

59.759° January 04, 2021 HDGM 2020 Grid North 0.3592°

6.1314°

| Hea |
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| |

| Serface 6.00 | 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 ° ' ") |
|---|------------------|------------|-------------|-----------|-------------|--------------|------------|------------|------------------|--------------------|----------------|-------------------------|--------------------------|
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| Property | | | 0.00 | 52.41 | | | | | 0.00 | | 708759.00 | N 32 9 58.09 | W 103 39 31.30 |
| Part | | | | | | | | | | 424816.00 | | N 32 9 58.09 | W 103 39 31.30 |
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| 5900.00 12.90 52.41 5770.58 -629.46 629.03 817.14 0.75 425445.00 709576.11 N 32 10 42.7 W 103 39 6000.00 12.15 52.41 5868.20 -642.70 642.26 834.33 0.75 425458.24 709593.29 N 32 10 4.27 W 103 39 6100.00 11.40 52.41 5966.09 -655.16 654.71 850.51 0.75 425470.69 709609.47 N 32 10 4.92 W 103 39 6200.00 10.65 52.41 6064.24 -666.84 666.38 865.66 0.75 425492.35 709624.63 N 32 10 4.7 W 103 39 6300.00 9.90 52.41 6162.64 -677.73 677.27 879.80 0.75 425493.24 709638.76 N 32 10 4.7 W 103 39 6400.00 9.15 52.41 6261.26 -687.83 687.36 892.92 0.75 425493.24 709638.76 N 32 10 4.84 W 103 39 6500. | | | | | | | | | | | | | |
| 6000.00 12.15 52.41 5868.20 -642.70 642.26 834.33 0.75 425488.24 709593.29 N 32 10 4.40 W 103 39 6100.00 11.40 52.41 5966.09 -655.16 654.71 850.51 0.75 425492.35 709624.63 N 32 10 4.63 W 103 39 6200.00 10.65 52.41 6064.24 -666.84 666.38 865.66 0.75 425492.35 709624.63 N 32 10 4.63 W 103 39 6300.00 9.90 52.41 6162.64 -677.73 677.27 879.80 0.75 425492.35 709624.63 N 32 10 4.63 W 103 39 6400.00 9.15 52.41 626.42 6-677.73 677.27 879.80 0.75 425493.24 709638.76 N 32 10 4.74 W 103 39 6500.00 8.40 52.41 6360.09 697.15 696.67 905.01 0.75 425512.64 709663.97 N 32 10 4.74 W 103 39 6500.00 7.65 52.41 6360.09 697.15 696.67 905.01 0.75 425512.64 709663.97 N 32 10 4.94 W 103 39 6600.00 7.65 52.41 6360.09 697.15 696.67 905.01 0.75 425512.64 709663.97 N 32 10 5.02 W 103 39 6700.00 6.90 52.41 6556.30 -713.40 712.92 926.12 0.75 425528.89 709680.8 N 32 10 5.09 W 103 39 6700.00 6.90 52.41 6556.30 -713.40 712.92 926.12 0.75 425528.89 709680.8 N 32 10 5.09 W 103 39 6700.00 6.90 52.41 6556.30 -713.40 712.92 926.12 0.75 425528.89 709680.8 N 32 10 5.09 W 103 39 6700.00 6.90 52.41 6556.30 -713.40 712.92 926.12 0.75 425528.89 709680.8 N 32 10 5.09 W 103 39 6700.00 6.90 52.41 6556.30 -713.40 712.92 926.12 0.75 425528.89 709680.8 N 32 10 5.09 W 103 39 6700.00 6.90 52.41 6556.30 6700.00 6.90 52.41 6556.30 6700.00 6700. | Cherry Canyon | | | | | | | | | | | | |
| 6100.00 11.40 52.41 5966.09 -655.16 654.71 850.51 0.75 425470.69 709609.47 N 32 10 4.52 W 103 39 6200.00 10.65 52.41 6064.24 -666.84 666.38 865.66 0.75 425482.35 709624.63 N 32 10 4.52 W 103 39 6300.00 9.90 52.41 6162.64 -677.73 677.27 879.80 0.75 425493.24 709638.76 N 32 10 4.74 W 103 39 6400.00 9.15 52.41 6261.26 -687.83 687.36 892.92 0.75 425503.33 709651.88 N 32 10 4.74 W 103 39 6500.00 8.40 52.41 6360.09 -697.15 696.67 905.01 0.75 425512.64 709663.97 N 32 10 4.93 W 103 39 6600.00 7.65 52.41 6459.11 -705.67 705.19 916.08 0.75 425521.16 709675.04 N 32 10 5.02 W 103 39 6700.00 6.90 52.41 6558.30 -713.40 712.92 926.12 0.75 425528.89 709685.08 N 32 10 5.09 W 103 39 6700.00 6.90 52.41 6558.30 -713.40 712.92 926.12 0.75 425528.89 709685.08 N 32 10 5.09 W 103 39 6700.00 6.90 52.41 6558.30 -713.40 712.92 926.12 0.75 425528.89 709685.08 N 32 10 5.09 W 103 39 6700.00 6.90 52.41 6558.30 -713.40 712.92 926.12 0.75 425528.89 709685.08 N 32 10 5.09 W 103 39 6700.00 6.90 52.41 6558.30 -713.40 712.92 926.12 0.75 425528.89 709685.08 N 32 10 5.09 W 103 39 6700.00 6.90 52.41 6558.30 -713.40 712.92 926.12 0.75 425528.89 709685.08 N 32 10 5.09 W 103 39 6700.00 6.90 52.41 6558.30 6700.00 6 | | | | | | | | | | | | | |
| 6200.00 10.65 52.41 6064.24 -666.84 666.38 865.66 0.75 425482.35 709624.63 N 32 10 4.63 W 103 39 6300.00 9.90 52.41 6162.64 -677.73 677.27 879.80 0.75 425493.24 709638.76 N 32 10 4.74 W 103 39 6400.00 9.15 52.41 6261.26 -687.83 687.36 892.92 0.75 425503.33 709651.88 N 32 10 4.84 W 103 39 6500.00 8.40 52.41 6360.09 -697.15 696.67 905.01 0.75 425512.64 709663.97 N 32 10 4.94 W 103 39 6600.00 7.65 52.41 6459.11 -705.67 705.19 916.08 0.75 425512.64 709663.97 N 32 10 4.93 W 103 39 6700.00 6.90 52.41 6558.30 -713.40 712.92 926.12 0.75 425528.89 709685.08 N 32 10 5.09 W 103 39 6700.00 | | | | | | | | | | | | | |
| 6300.00 9.90 52.41 6162.64 -677.73 677.27 879.80 0.75 425493.24 709638.76 N 32 10 4.74 W 103 39 6400.00 9.15 52.41 6261.26 -687.83 687.36 892.92 0.75 425503.33 709651.88 N 32 10 4.84 W 103 39 6500.00 8.40 52.41 6360.09 -697.15 696.67 905.01 0.75 425512.64 709663.97 N 32 10 4.93 W 103 39 6600.00 7.65 52.41 6459.11 -705.67 705.19 916.08 0.75 425521.64 709665.04 N 32 10 5.02 W 103 39 6700.00 6.90 52.41 6558.30 -713.40 712.92 926.12 0.75 425528.89 709685.08 N 32 10 5.09 W 103 39 6700.00 | | | | | | | | | | | | | |
| 6300.00 9.90 52.41 6162.64 -677.73 677.27 879.80 0.75 425493.24 709638.76 N 32 10 4.74 W 103 39 6400.00 9.15 52.41 6261.26 -687.83 687.36 892.92 0.75 425503.33 709651.88 N 32 10 4.84 W 103 39 6500.00 8.40 52.41 6360.09 -697.15 696.67 905.01 0.75 425512.64 709663.97 N 32 10 4.93 W 103 39 6600.00 7.65 52.41 6459.11 -705.67 705.19 916.08 0.75 425521.64 709665.04 N 32 10 5.02 W 103 39 6700.00 6.90 52.41 6558.30 -713.40 712.92 926.12 0.75 425528.89 709685.08 N 32 10 5.09 W 103 39 6700.00 | | | | | | -666.84 | 666.38 | 865.66 | | | | | |
| 6500.00 8.40 52.41 6360.09 -697.15 696.67 905.01 0.75 425512.64 709663.97 N 32 10 4.93 W 103 39 6600.00 7.65 52.41 6459.11 -705.67 705.19 916.08 0.75 425521.16 709675.04 N 32 10 5.02 W 103 39 6700.00 6.90 52.41 6558.30 -713.40 712.92 926.12 0.75 425528.89 709685.08 N 32 10 5.09 W 103 39 | | | | | | -677.73 | 677.27 | 879.80 | | | | | |
| 6600.00 7.65 52.41 6459.11 -705.67 705.19 916.08 0.75 425521.16 709675.04 N 32 10 5.02 W 103 39 16700.00 6.90 52.41 6558.30 -713.40 712.92 926.12 0.75 425528.89 709685.08 N 32 10 5.09 W 103 39 1 | | | | | 6261.26 | | | | | | 709651.88 | | |
| 6600.00 7.65 52.41 6459.11 -705.67 705.19 916.08 0.75 425521.16 709675.04 N 32 10 5.02 W 103 39 16700.00 6.90 52.41 6558.30 -713.40 712.92 926.12 0.75 425528.89 709685.08 N 32 10 5.09 W 103 39 1 | | | | | | | | | | | | | |
| 6700.00 6.90 52.41 6558.30 -713.40 712.92 926.12 0.75 425528.89 709685.08 N 32 10 5.09 W 103 39 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | 6800.00 | 6.15 | 52.41 | 6657.65 | -720.34 | 719.85 | 935.13 | 0.75 | 425535.82 | | | |

| Comments | MD (ft) | Incl (°) | Azim Grid (°) | TVD (ft) | VSEC (ft) | NS (ft) | EW (ft) | DLS (°/100ft) | Northing (ftUS) | Easting (ftUS) | Latitude (N/S ° ' ") | Longitu (E/W° |
|---------------------|----------------------|----------------|------------------|----------------------|--------------------|----------------------|--------------------|----------------------|------------------------|------------------------|------------------------------|--------------------------------|
| | 6900.00 | 5.40 | 52.41 | 6757.14 | -726.49 | 725.99 | 943.10 | 0.75 | 425541.96 | 709702.06 | N 32 10 5.22 | W 103 39 20. |
| | 7000.00 7100.00 | 4.65 3.90 | 52.41 52.41 | 6856.76 6956.48 | -731.84 -736.39 | 731.34 735.89 | 950.05 955.96 | 0.75 0.75 | 425547.31 425551.86 | | | W 103 39 20. W 103 39 20. |
| | 7200.00 | 3.15 | 52.41 | 7056.29 | -740.15 | 739.65 | 960.84 | 0.75 | 425555.61 | | | W 103 39 20. |
| Brushy Canyon | 7234.76 | 2.89 | 52.41 | 7091.00 | -741.27 | 740.76 | 962.29 | 0.75 | 425556.73 | | | W 103 39 20.0 |
| | 7300.00 7400.00 | 2.40 1.65 | 52.41 52.41 | 7156.17 7256.11 | -743.11 -745.27 | 742.60 744.76 | 964.68 967.48 | 0.75 0.75 | 425558.57 425560.73 | | | W 103 39 20.0 W 103 39 19.0 |
| | 7500.00 | 0.90 | 52.41 | 7356.08 | -746.63 | 746.12 | 969.25 | 0.75 | 425562.09 | | | W 103 39 19. |
| | 7600.00 | 0.15 | 52.41 | 7456.07 | -747.19 | 746.68 | 969.98 | 0.75 | 425562.65 | | | W 103 39 19. |
| lold Vertical | 7620.42 7700.00 | 0.00 | 52.41 52.41 | 7476.49 7556.07 | -747.21 -747.21 | 746.70 746.70 | 970.00 970.00 | 0.75 0.00 | 425562.67 425562.67 | 709728.96 709728.96 | | W 103 39 19.9 W 103 39 19.9 |
| | 7800.00 | 0.00 | 52.41 | 7656.07 | -747.21 | 746.70 | 970.00 | 0.00 | 425562.67 | | | W 103 39 19. |
| | 7900.00 | 0.00 | 52.41 | 7756.07 | -747.21 | 746.70 | 970.00 | 0.00 | 425562.67 | | N 32 10 5.42 | W 103 39 19. |
| | 8000.00 8100.00 | 0.00 0.00 | 52.41 52.41 | 7856.07 7956.07 | -747.21 -747.21 | 746.70 746.70 | 970.00 970.00 | 0.00 0.00 | 425562.67 425562.67 | | | W 103 39 19.9 W 103 39 19.9 |
| | 8200.00 | 0.00 | 52.41 | 8056.07 | -747.21 | 746.70 | 970.00 | 0.00 | 425562.67 | | | W 103 39 19. |
| | 8300.00 | 0.00 | 52.41 | 8156.07 | -747.21 | 746.70 | 970.00 | 0.00 | 425562.67 | 709728.96 | N 32 10 5.42 | W 103 39 19. |
| | 8400.00 8500.00 | 0.00 0.00 | 52.41 52.41 | 8256.07 8356.07 | -747.21 -747.21 | 746.70 746.70 | 970.00 | 0.00 0.00 | 425562.67 425562.67 | | | W 103 39 19.9 W 103 39 19.9 |
| | 8600.00 | 0.00 | 52.41 | 8456.07 | -747.21 -747.21 | 746.70 | 970.00 970.00 | 0.00 | 425562.67 | | | W 103 39 19. |
| | 8700.00 | 0.00 | 52.41 | 8556.07 | -747.21 | 746.70 | 970.00 | 0.00 | 425562.67 | | | W 103 39 19. |
| 0 | 8800.00 | 0.00 | 52.41 | 8656.07 | -747.21 | 746.70 | 970.00 | 0.00 | 425562.67 | | | W 103 39 19. |
| one Spring | 8863.93 8900.00 | 0.00 0.00 | 52.41 52.41 | 8720.00 8756.07 | -747.21 -747.21 | 746.70 746.70 | 970.00 970.00 | 0.00 0.00 | 425562.67 425562.67 | | | W 103 39 19.9 W 103 39 19.9 |
| Ipper Avalon | 8958.93 | 0.00 | 52.41 | 8815.00 | -747.21 | 746.70 | 970.00 | 0.00 | 425562.67 | | | W 103 39 19.9 |
| • • | 9000.00 | 0.00 | 52.41 | 8856.07 | -747.21 | 746.70 | 970.00 | 0.00 | 425562.67 | | | W 103 39 19. |
| | 9100.00 | 0.00 | 52.41 | 8956.07 | -747.21 | 746.70 | 970.00 | 0.00 | 425562.67 | | | W 103 39 19. |
| | 9200.00 9300.00 | 0.00 0.00 | 52.41 52.41 | 9056.07 9156.07 | -747.21 -747.21 | 746.70 746.70 | 970.00 970.00 | 0.00 0.00 | 425562.67 425562.67 | | | W 103 39 19.9 W 103 39 19.9 |
| | 9400.00 | 0.00 | 52.41 | 9256.07 | -747.21 | 746.70 | 970.00 | 0.00 | 425562.67 | | | W 103 39 19. |
| | 9500.00 | 0.00 | 52.41 | 9356.07 | -747.21 | 746.70 | 970.00 | 0.00 | 425562.67 | | | W 103 39 19. |
| | 9600.00 9700.00 | 0.00 | 52.41 52.41 | 9456.07 9556.07 | -747.21 -747.21 | 746.70 746.70 | 970.00 970.00 | 0.00 0.00 | 425562.67 425562.67 | | | W 103 39 19.9 W 103 39 19.9 |
| | 9800.00 | 0.00 | 52.41 | 9656.07 | -747.21 -747.21 | 746.70 | 970.00 | 0.00 | 425562.67 | | N 32 10 5.42 N 32 10 5.42 | |
| irst Bone | 9880.93 | 0.00 | 52.41 | 9737.00 | -747.21 | 746.70 | 970.00 | 0.00 | 425562.67 | | N 32 10 5.42 | |
| pring | | | | | | | | | | | | |
| " Casing | 9900.00 9943.93 | 0.00 0.00 | 52.41 52.41 | 9756.07 9800.00 | -747.21 -747.21 | 746.70 746.70 | 970.00 970.00 | 0.00 0.00 | 425562.67 425562.67 | | N 32 10 5.42 N 32 10 5.42 | W 103 39 19.9 W 103 39 19.9 |
| Casing | 10000.00 | 0.00 | 52.41 | 9856.07 | -747.21 | 746.70 | 970.00 | 0.00 | 425562.67 | | | W 103 39 19.5 W 103 39 19.5 |
| uild 10°/100ft | 10054.42 | 0.00 | 52.41 | 9910.49 | -747.21 | 746.70 | 970.00 | 0.00 | 425562.67 | 709728.96 | N 32 10 5.42 | W 103 39 19. |
| | 10100.00 | 4.56 | 176.72 | 9956.03 | -745.40 | 744.89 | 970.10 | 10.00 | 425560.86 | | | W 103 39 19. |
| | 10200.00 10300.00 | 14.56 24.56 | 176.72 176.72 | 10054.51 10148.62 | -728.84 -695.46 | 728.33 694.95 | 971.05 972.96 | 10.00 10.00 | 425544.30 425510.92 | | | W 103 39 19.9 W 103 39 19.9 |
| | 10400.00 | 34.56 | 176.72 | 10235.50 | -646.28 | 645.77 | 975.78 | 10.00 | 425461.74 | | | W 103 39 19. |
| | 10500.00 | 44.56 | 176.72 | 10312.50 | -582.78 | 582.26 | 979.42 | 10.00 | 425398.24 | | | W 103 39 19. |
| coord Ponc | 10600.00 | 54.56 | 176.72 | 10377.28 | -506.89 | 506.38 | 983.77 | 10.00 | 425322.36 | 709742.72 | N 32 10 3.04 | W 103 39 19. |
| econd Bone oring | 10626.23 | 57.18 | 176.72 | 10392.00 | -485.22 | 484.70 | 985.01 | 10.00 | 425300.68 | 709743.97 | N 32 10 2.83 | W 103 39 19.8 |
| | 10700.00 | 64.56 | 176.72 | 10427.88 | -420.93 | 420.41 | 988.69 | 10.00 | 425236.40 | | N 32 10 2.19 | |
| | 10800.00 | 74.56 | 176.72 | 10462.77 | -327.50 | 326.98 | 994.04 | 10.00 | 425142.97 | | | W 103 39 19. |
| TP Point | 10900.00 | 84.56 | 176.72 | 10480.87 | -229.45 | 228.92 | 999.66 | 10.00 | 425044.91 | | | W 103 39 19. |
| anding Point | 10951.86 | 89.74 | 176.72 | 10483.44 | -177.76 | 177.23 | 1002.62 | 10.00 | 424993.23 | 709761.58 | N 32 9 59.79 | W 103 39 19. |
| | 11000.00 | 89.74 | 176.72 | 10483.66 | -129.70 | 129.17 | 1005.38 | 0.00 | 424945.17 | | | W 103 39 19. |
| | 11100.00 11200.00 | 89.74 89.74 | 176.72 176.72 | 10484.10 10484.55 | -29.86 69.97 | 29.34 -70.50 | 1011.09 1016.81 | 0.00 0.00 | 424845.33 424745.50 | | | W 103 39 19.4 W 103 39 19.4 |
| | 11300.00 | 89.74 | 176.72 | 10485.00 | 169.80 | -170.34 | 1022.53 | 0.00 | 424645.67 | | | W 103 39 19. |
| | 11400.00 | 89.74 | 176.72 | 10485.44 | 269.63 | -270.17 | 1028.25 | 0.00 | 424545.84 | 709787.21 | N 32 9 55.36 | W 103 39 19. |
| | 11500.00 | 89.74 | 176.72 | 10485.89 | 369.46 | -370.01 | 1033.97 | 0.00 | 424446.01 | | | W 103 39 19. |
| urn 2°/100ft | 11600.00 11617.45 | 89.74 89.74 | 176.72 176.72 | 10486.34 10486.41 | 469.30 486.72 | -469.84 -487.27 | 1039.69 1040.69 | 0.00 0.00 | 424346.18 424328.75 | | | W 103 39 19. W 103 39 19. |
| | 11700.00 | 89.74 | 178.37 | 10486.78 | 569.19 | -569.73 | 1044.22 | 2.00 | 424246.29 | 709803.18 | N 32 9 52.39 | W 103 39 19. |
| | 11800.00 | 89.74 | 180.37 | 10487.24 | 669.17 | -669.72 | 1045.32 | 2.00 | 424146.31 | | | W 103 39 19 |
| old | 11804.38 11900.00 | 89.74 89.74 | 180.46 180.46 | 10487.26 10487.69 | 673.56 769.17 | -674.11 -769.72 | 1045.29 1044.52 | 2.00 0.00 | 424141.92 424046.32 | | | W 103 39 19 W 103 39 19 |
| | 12000.00 | 89.74 | 180.46 | 10488.14 | 869.17 | -869.71 | 1043.72 | 0.00 | 423946.32 | | N 32 9 49.42 | W 103 39 19. |
| | 12100.00 | 89.74 | 180.46 | 10488.60 | 969.16 | -969.71 | 1042.91 | 0.00 | 423846.33 | | | W 103 39 19 |
| | 12200.00 | 89.74 89.74 | 180.46 180.46 | 10489.50 | 1069.16 1169.15 | -1069.70 -1169.70 | 1042.11 1041.31 | 0.00 | 423746.34 423646.35 | | N 32 9 47.44 N 32 9 46.46 | |
| | 12400.00 | 89.74 | 180.46 | 10489.96 | 1269.15 | -1269.70 | 1040.50 | 0.00 | 423546.36 | | N 32 9 45.47 | |
| | 12500.00 | 89.74 | 180.46 | 10490.41 | 1369.15 | -1369.69 | 1039.70 | 0.00 | 423446.37 | | N 32 9 44.48 | |
| | 12600.00 | 89.74 89.74 | 180.46 180.46 | 10490.87 10491.32 | 1469.14 1569.14 | -1469.69 -1569.68 | 1038.90 1038.10 | 0.00 0.00 | 423346.38 423246.38 | | N 32 9 43.49 N 32 9 42.50 | |
| P1, Build | 12700.00 | | | | | | | | | | | |
| /100ft | 12704.38 | 89.74 | 180.46 | 10491.34 | 1573.52 | -1574.07 | 1038.06 | 0.00 | 423242.00 | | N 32 9 42.45 | |
| old | 12716.76 12800.00 | 89.99 89.99 | 180.46 180.46 | 10491.37 10491.39 | 1585.90 1669.14 | -1586.44 -1669.68 | 1037.96 1037.30 | 2.00 0.00 | 423229.63 423146.39 | 709796.92 709796.25 | N 32 9 42.33 N 32 9 41 51 | W 103 39 19. W 103 39 19. |
| | 12800.00 | 89.99 89.99 | 180.46 | 10491.39 | 1769.13 | -1769.68 | 1037.30 | 0.00 | 423146.39 | 709795.25 | | W 103 39 19 W 103 39 19 |
| | 13000.00 | 89.99 | 180.46 | 10491.43 | 1869.13 | -1869.67 | 1035.70 | 0.00 | 422946.41 | 709794.65 | N 32 9 39.53 | W 103 39 19 |
| | 13100.00 | 89.99 | 180.46 | 10491.45 | 1969.13 | -1969.67 | 1034.90 | 0.00 | 422846.41 | | N 32 9 38.54 | |
| | 13200.00 13300.00 | 89.99 89.99 | 180.46 180.46 | 10491.48 10491.50 | 2069.13 2169.12 | -2069.67 -2169.66 | 1034.10 1033.30 | 0.00 0.00 | 422746.42 422646.43 | | N 32 9 37.55 N 32 9 36.56 | |
| | 13400.00 | 89.99 | 180.46 | 10491.52 | 2269.12 | -2269.66 | 1032.51 | 0.00 | 422546.44 | | N 32 9 35.57 | |
| | 13500.00 | 89.99 | 180.46 | 10491.54 | 2369.12 | -2369.66 | 1031.71 | 0.00 | 422446.44 | | N 32 9 34.58 | |
| | 13600.00 | 89.99 | 180.46 | 10491.56 | 2469.11 | -2469.65 | 1030.91 | 0.00 | 422346.45 | | N 32 9 33.59 | |
| | 13700.00 13800.00 | 89.99 89.99 | 180.46 180.46 | 10491.58 10491.61 | 2569.11 2669.11 | -2569.65 -2669.65 | 1030.11 1029.31 | 0.00 0.00 | 422246.46 422146.47 | | N 32 9 32.60 N 32 9 31.61 | |
| | 13900.00 | 89.99 | 180.46 | 10491.63 | 2769.11 | -2769.64 | 1028.51 | 0.00 | 422046.47 | 709787.47 | N 32 9 30.62 | W 103 39 19 |
| | 14000.00 | 89.99 | 180.46 | 10491.65 | 2869.10 | -2869.64 | 1027.72 | 0.00 | 421946.48 | | N 32 9 29.63 | |
| | 14100.00 14200.00 | 89.99 89.99 | 180.46 180.46 | 10491.67 10491.69 | 2969.10 3069.10 | -2969.64 -3069.64 | 1026.92 1026.12 | 0.00 0.00 | 421846.49 421746.50 | | N 32 9 28.64 N 32 9 27.66 | |
| | 14300.00 | 89.99 | 180.46 | 10491.72 | 3169.09 | -3169.63 | 1025.32 | 0.00 | 421646.50 | | N 32 9 26.67 | |
| | 14400.00 | 89.99 | 180.46 | 10491.74 | 3269.09 | -3269.63 | 1024.52 | 0.00 | 421546.51 | | N 32 9 25.68 | |
| 2, Build | 14456.52 | 89.99 | 180.46 | 10491.75 | 3325.61 | -3326.14 | 1024.07 | 0.00 | 421490.00 | 709783.03 | N 32 9 25.12 | W 103 39 19 |
| 100ft Id | 14472.53 | 90.31 | 180.46 | 10491.71 | 3341.62 | -3342.16 | 1023.94 | 2.00 | 421473.98 | | N 32 9 24.96 | |
| - | 14500.00 | 90.31 | 180.46 | 10491.56 | 3369.09 | -3369.62 | 1023.72 | 0.00 | 421446.52 | 709782.68 | N 32 9 24.69 | W 103 39 19 |
| | 14600.00 | 90.31 | 180.46 | 10491.02 | 3469.08 | -3469.62 | 1022.92 | 0.00 | 421346.53 | 709781.88 | N 32 9 23.70 | W 103 39 19 |
| | 14700.00 | 90.31 | 180.46 | 10490.49 | 3569.08 | -3569.62 | 1022.12 | 0.00 | 421246.54 | | N 32 9 22.71 | |
| | 14800.00 14900.00 | 90.31 90.31 | 180.46 180.46 | 10489.95 10489.41 | 3669.08 3769.07 | -3669.61 -3769.61 | 1021.33 1020.53 | 0.00 0.00 | 421146.55 421046.56 | | N 32 9 21.72 N 32 9 20.73 | |
| | 15000.00 | 90.31 | 180.46 | 10488.87 | 3869.07 | -3869.60 | 1019.73 | 0.00 | 420946.56 | | N 32 9 19.74 | |
| | | 90.31 | 180.46 | 10488.34 | 3969.06 | -3969.60 | 1018.93 | 0.00 | 420846.57 | | N 32 9 18.75 | |
| | 15100.00 | | | | | | | | | | | |
| | 15200.00 | 90.31 | 180.46 | 10487.80 | 4069.06 | -4069.59 | 1018.13 | 0.00 | 420746.58 | 709777.09 | N 32 9 17.76 | W 103 39 19 |
| | | | | | | | | 0.00 0.00 0.00 | | 709777.09 709776.29 | | W 103 39 19 W 103 39 19 |

| 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 ° ' ") |
|-----------------------------------|------------|-------------|------------------|-------------|--------------|------------------------|------------|------------------|--------------------|----------------|-------------------------|----------------------------------|
| | 15600.00 | 90.31 | 180.46 | 10485.65 | 4469.04 | -4469.57 | 1014.93 | 0.00 | 420346.62 | 709773.89 | N 32 9 13.80 1 | W 103 39 19.82 |
| | 15700.00 | 90.31 | 180.46 | 10485.11 | 4569.04 | -4569.57 | 1014.14 | 0.00 | 420246.63 | 709773.09 | N 32 9 12.81 | W 103 39 19.83 |
| | 15800.00 | 90.31 | 180.46 | 10484.58 | 4669.03 | -4669.56 | 1013.34 | 0.00 | 420146.64 | 709772.29 | | W 103 39 19.85 |
| | 15900.00 | 90.31 | 180.46 | 10484.04 | 4769.03 | -4769.56 | 1012.54 | 0.00 | 420046.64 | 709771.49 | | W 103 39 19.87 |
| | 16000.00 | 90.31 | 180.46 | 10483.50 | 4869.03 | -4869.56 | 1011.74 | 0.00 | 419946.65 | 709770.70 | | W 103 39 19.88 |
| | 16100.00 | 90.31 | 180.46 | 10482.97 | 4969.02 | -4969.55 | 1010.94 | 0.00 | 419846.66 | 709769.90 | | W 103 39 19.90 |
| | 16200.00 | 90.31 | 180.46 | 10482.43 | 5069.02 | -5069.55 | 1010.14 | 0.00 | 419746.67 | 709769.10 | N 32 9 7.87 | |
| MP/IFP3, Build 2°/100ft | 16212.67 | 90.31 | 180.46 | 10482.36 | 5081.69 | -5082.22 | 1010.04 | 0.00 | 419734.00 | 709769.00 | N 32 9 7.74 | |
| Hold | 16255.95 | 90.35 | 179.59 | 10482.11 | 5124.97 | -5125.50 | 1010.02 | 2.00 | 419690.73 | 709768.98 | N 32 9 7.31 | W 103 39 19.92 |
| | 16300.00 | 90.35 | 179.59 | 10481.84 | 5169.01 | -5169.54 | 1010.33 | 0.00 | 419646.68 | 709769.29 | N 32 9 6.88 1 | |
| | 16400.00 | 90.35 | 179.59 | 10481.22 | 5269.01 | -5269.54 | 1011.04 | 0.00 | 419546.69 | 709770.00 | N 32 9 5.89 1 | W 103 39 19.92 |
| | 16500.00 | 90.35 | 179.59 | 10480.61 | 5369.00 | -5369.53 | 1011.75 | 0.00 | 419446.70 | 709770.71 | N 32 9 4.90 | |
| | 16600.00 | 90.35 | 179.59 | 10479.99 | 5469.00 | -5469.53 | 1012.46 | 0.00 | 419346.71 | 709771.42 | N 32 9 3.91 | |
| | 16700.00 | 90.35 | 179.59 | 10479.38 | 5568.99 | -5569.52 | 1013.17 | 0.00 | 419246.71 | 709772.13 | | W 103 39 19.92 |
| | 16800.00 | 90.35 | 179.59 | 10478.76 | 5668.99 | -5669.52 | 1013.88 | 0.00 | 419146.72 | 709772.84 | N 32 9 1.93 1 | |
| | 16900.00 | 90.35 | 179.59 | 10478.15 | 5768.98 | -5769.52 | 1014.59 | 0.00 | 419046.73 | 709773.55 | N 32 9 0.94 1 | |
| | 17000.00 | 90.35 | 179.59 | 10477.53 | 5868.98 | -5869.51 | 1015.30 | 0.00 | 418946.74 | 709774.26 | N 32 8 59.95 | |
| | | 90.35 | 179.59 | 10477.55 | 5968.97 | | | 0.00 | 418846.75 | | N 32 8 58.96 | |
| | 17100.00 | | | 10476.92 | | -5969.51 | 1016.01 | | | 709774.97 | | |
| | 17200.00 | 90.35 | 179.59 | 10476.30 | 6068.97 | -6069.50 | 1016.72 | 0.00 | 418746.76 | 709775.68 | | W 103 39 19.91 |
| | 17300.00 | 90.35 | 179.59 | 10475.69 | 6168.96 | -6169.50 | 1017.43 | 0.00 | 418646.77 | 709776.39 | N 32 8 56.98 | |
| | 17400.00 | 90.35 | 179.59 | 10475.07 | 6268.96 | -6269.49 | 1018.14 | 0.00 | 418546.78 | 709777.10 | N 32 8 55.99 | |
| | 17500.00 | 90.35 | 179.59 | 10474.46 | 6368.96 | -6369.49 | 1018.85 | 0.00 | 418446.78 | 709777.81 | | W 103 39 19.91 |
| | 17600.00 | 90.35 | 179.59 | 10473.84 | 6468.95 | -6469.49 | 1019.56 | 0.00 | 418346.79 | | N 32 8 54.01 | |
| | 17700.00 | 90.35 | 179.59 | 10473.22 | 6568.95 | -6569.48 | 1020.27 | 0.00 | 418246.80 | 709779.23 | N 32 8 53.02 | W 103 39 19.91 |
| | 17800.00 | 90.35 | 179.59 | 10472.61 | 6668.94 | -6669.48 | 1020.98 | 0.00 | 418146.81 | 709779.93 | N 32 8 52.03 | W 103 39 19.91 |
| IFP4, Drop | 17900.00 | 90.35 | 179.59 | 10471.99 | 6768.94 | -6769.47 | 1021.69 | 0.00 | 418046.82 | 709780.64 | N 32 8 51.04 | |
| 2°/100ft | 17960.82 | 90.35 | 179.59 | 10471.62 | 6829.76 | -6830.29 | 1022.12 | 0.00 | 417986.00 | | N 32 8 50.44 | |
| Hold | 17963.66 | 90.30 | 179.59 | 10471.60 | 6832.59 | -6833.13 | 1022.14 | 2.00 | 417983.17 | 709781.10 | N 32 8 50.41 | |
| | 18000.00 | 90.30 | 179.59 | 10471.42 | 6868.93 | -6869.47 | 1022.40 | 0.00 | 417946.83 | 709781.35 | | W 103 39 19.91 |
| | 18100.00 | 90.30 | 179.59 | 10470.90 | 6968.93 | -6969.46 | 1023.11 | 0.00 | 417846.84 | 709782.07 | | W 103 39 19.90 |
| | 18200.00 | 90.30 | 179.59 | 10470.38 | 7068.92 | -7069.46 | 1023.82 | 0.00 | 417746.84 | 709782.78 | | W 103 39 19.90 |
| | 18300.00 | 90.30 | 179.59 | 10469.87 | 7168.92 | -7169.46 | 1024.53 | 0.00 | 417646.85 | 709783.49 | | W 103 39 19.90 |
| | 18400.00 | 90.30 | 179.59 | 10469.35 | 7268.91 | -7269.45 | 1025.24 | 0.00 | 417546.86 | 709784.20 | | W 103 39 19.90 |
| | 18500.00 | 90.30 | 179.59 | 10468.83 | 7368.91 | -7369.45 | 1025.95 | 0.00 | 417446.87 | 709784.91 | N 32 8 45.11 | |
| | 18600.00 | 90.30 | 179.59 | 10468.32 | 7468.91 | -7469.44 | 1026.67 | 0.00 | 417346.88 | 709785.62 | N 32 8 44.12 | W 103 39 19.90 |
| | 18700.00 | 90.30 | 179.59 | 10467.80 | 7568.90 | -7569.44 | 1027.38 | 0.00 | 417246.88 | 709786.33 | N 32 8 43.13 | W 103 39 19.90 |
| | 18800.00 | 90.30 | 179.59 | 10467.28 | 7668.90 | -7669.44 | 1028.09 | 0.00 | 417146.89 | 709787.04 | N 32 8 42.14 | W 103 39 19.90 |
| | 18900.00 | 90.30 | 179.59 | 10466.77 | 7768.89 | -7769.43 | 1028.80 | 0.00 | 417046.90 | 709787.75 | N 32 8 41.15 | W 103 39 19.90 |
| | 19000.00 | 90.30 | 179.59 | 10466.25 | 7868.89 | -7869.43 | 1029.51 | 0.00 | 416946.91 | 709788.47 | N 32 8 40.16 | W 103 39 19.90 |
| | 19100.00 | 90.30 | 179.59 | 10465.74 | 7968.88 | -7969.43 | 1030.22 | 0.00 | 416846.92 | 709789.18 | | W 103 39 19.89 |
| | 19200.00 | 90.30 | 179.59 | 10465.22 | 8068.88 | -8069.42 | 1030.93 | 0.00 | 416746.93 | 709789.89 | N 32 8 38.18 | W 103 39 19.89 |
| | 19300.00 | 90.30 | 179.59 | 10464.70 | 8168.88 | -8169.42 | 1031.64 | 0.00 | 416646.93 | 709790.60 | N 32 8 37.19 | |
| | 19400.00 | 90.30 | 179.59 | 10464.19 | 8268.87 | -8269.41 | 1032.35 | 0.00 | 416546.94 | 709791.31 | | W 103 39 19.89 |
| | 19500.00 | 90.30 | 179.59 | 10463.67 | 8368.87 | -8369.41 | 1033.07 | 0.00 | 416446.95 | 709792.02 | N 32 8 35.21 | |
| | 19600.00 | 90.30 | 179.59 | 10463.15 | 8468.86 | -8469.41 | 1033.78 | 0.00 | 416346.96 | 709792.73 | N 32 8 34.22 | |
| | 19700.00 | 90.30 | 179.59 | 10462.64 | 8568.86 | -8569.40 | 1033.76 | 0.00 | 416246.97 | | N 32 8 33.23 | |
| IFP5, Build | 19712.97 | 90.30 | 179.59 | 10462.57 | 8581.83 | -8582.37 | 1034.58 | 0.00 | 416234.00 | 709793.54 | N 32 8 33.10 | |
| 2°/100ft | | 90.40 | 179.59 | 10462.54 | 8586.92 | -8587.46 | 1034.62 | 2.00 | 416228.91 | 709793.57 | N 22 0 22 0 5 | W 102 20 10 00 |
| Hold | 19718.06 | | | | | | | | 410228.97 | | | W 103 39 19.89 |
| | 19800.00 | 90.40 | 179.59 | 10461.97 | 8668.85 | -8669.40 | 1035.20 | 0.00 | 416146.98 | 709794.15 | | W 103 39 19.89 |
| | 19900.00 | 90.40 | 179.59 | 10461.28 | 8768.85 | -8769.39 | 1035.91 | 0.00 | 416046.98 | 709794.87 | | W 103 39 19.89 |
| | 20000.00 | 90.40 | 179.59 | 10460.58 | 8868.84 | -8869.39 | 1036.62 | 0.00 | 415946.99 | 709795.58 | | W 103 39 19.89 |
| | 20100.00 | 90.40 | 179.59 | 10459.89 | 8968.84 | -8969.38 | 1037.33 | 0.00 | 415847.00 | 709796.29 | | W 103 39 19.89 |
| | 20200.00 | 90.40 | 179.59 | 10459.19 | 9068.83 | -9069.38 | 1038.04 | 0.00 | 415747.01 | 709797.00 | | W 103 39 19.88 |
| | 20300.00 | 90.40 | 179.59 | 10458.50 | 9168.83 | -9169.37 | 1038.76 | 0.00 | 415647.02 | 709797.71 | | W 103 39 19.88 |
| | 20400.00 | 90.40 | 179.59 | 10457.80 | 9268.82 | -9269.37 | 1039.47 | 0.00 | 415547.03 | 709798.42 | | W 103 39 19.88 |
| | 20500.00 | 90.40 | 179.59 | 10457.11 | 9368.82 | -9369.36 | 1040.18 | 0.00 | 415447.04 | 709799.13 | N 32 8 25.32 | W 103 39 19.88 |
| | 20600.00 | 90.40 | 179.59 | 10456.42 | 9468.81 | -9469.36 | 1040.89 | 0.00 | 415347.05 | 709799.85 | | W 103 39 19.88 |
| | 20700.00 | 90.40 | 179.59 | 10455.72 | 9568.81 | -9569.35 | 1041.60 | 0.00 | 415247.06 | 709800.56 | | W 103 39 19.88 |
| | 20800.00 | 90.40 | 179.59 | 10455.03 | 9668.80 | -9669.35 | 1042.31 | 0.00 | 415147.07 | 709801.27 | | W 103 39 19.88 |
| | 20900.00 | 90.40 | 179.59 | 10454.33 | 9768.80 | -9769.34 | 1043.02 | 0.00 | 415047.08 | 709801.98 | | W 103 39 19.88 |
| | 21000.00 | 90.40 | 179.59 | 10453.64 | 9868.79 | -9869.34 | 1043.74 | 0.00 | 414947.09 | 709802.69 | | W 103 39 19.88 |
| | 21100.00 | 90.40 | 179.59 | 10453.04 | 9968.78 | -9969.33 | 1044.45 | 0.00 | 414847.10 | 709802.09 | | W 103 39 19.88 |
| | 21200.00 | 90.40 | 179.59 | 10452.94 | 10068.78 | -10069.33 | 1044.45 | 0.00 | 414747.10 | 709803.40 | | W 103 39 19.86 W 103 39 19.87 |
| | | | | | 10068.78 | -10069.33 -10169.32 | | | | | | |
| I TO Delet | 21300.00 | 90.40 | 179.59 | 10451.56 | | | 1045.87 | 0.00 | 414647.11 | 709804.83 | | W 103 39 19.87 |
| LTP Point | 21390.18 | 90.40 | 179.59 | 10450.93 | 10258.95 | -10259.50 | 1046.51 | 0.00 | 414556.94 | | N 32 8 16.51 I | |
| 00.0:1.040 | 21400.00 | 90.40 | 179.59 | 10450.86 | 10268.77 | -10269.32 | 1046.58 | 0.00 | 414547.12 | 709805.54 | N 32 8 16.41 | vv 103 39 19.87 |
| CO Grizzly 3 10 Fed 418H - BHL | 21465.13 | 90.40 | 179.59 | 10450.41 | 10333.89 | -10334.44 | 1047.05 | 0.00 | 414482.00 | 709806.00 | N 32 8 15.77 | W 103 39 19.87 |

Survey Type:

Def Plan

Survey Error Model: Survey Program: ISCWSA Rev 3 *** 3-D 97.071% Confidence 3.0000 sigma

| Description | Part | MD From (ft) | MD To (ft) | EOU Freq (ft) | Hole Size Casi (in) | ng Diameter (in) | Expected Max Inclination (deg) | Survey Tool Type | Borehole / Survey |
|-------------|------|-----------------|---------------|------------------|------------------------|---------------------|--------------------------------------|-------------------------------|--|
| | 1 | 0.000 | 28.000 | 1/100.000 | 12.250 | 9.625 | | B001Mb_MWD+HRGM-Depth Only | CO Grizzly 3 10 Fed 418H / CO Grizzly 3 10 Fed 418H R0 mdv 01Oct20 |
| | 1 | 28.000 | 900.000 | 1/100.000 | 12.250 | 9.625 | | B001Mb_MWD+HRGM | CO Grizzly 3 10 Fed 418H / CO Grizzly 3 10 Fed 418H R0 mdv |
| | 1 | 900.000 | 9943.925 | 1/100.000 | 8.750 | 7.000 | | B001Mb_MWD+HRGM | CO Grizzly 3 10 Fed 418H / CO Grizzly 3 10 Fed 418H R0 mdv |
| | 1 | 9943.925 | 21465.129 | 1/100.000 | 6.000 | 4.500 | | B001Mb_MWD+HRGM | CO Grizzly 3 10 Fed 418H / CO Grizzly 3 10 Fed 418H R0 mdv |

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: CHEVRON USA INC.

LEASE NO.: NMNM

LOCATION: Section. 3., T25S., R.32E., NMP

COUNTY: Lea County, New Mexico

WELL NAME & NO.: CO GRIZZLY 3 10 FED 418H
SURFACE HOLE FOOTAGE: 192'/N & 1600'/E
BOTTOM HOLE FOOTAGE 25'/N & 550'/E

COA

| H2S | • Yes | O No | |
|----------------------|------------------|------------------|--------------|
| Potash | None | Secretary | © R-111-P |
| Cave/Karst Potential | • Low | O Medium | C High |
| Cave/Karst Potential | Critical | | |
| Variance | O None | • Flex Hose | Other |
| Wellhead | Conventional | O Multibowl | O Both |
| Other | ☐ 4 String Area | ☐ Capitan Reef | □WIPP |
| Other | ☐ Fluid Filled | ▼ Cement Squeeze | ☐ Pilot Hole |
| Special Requirements | ☐ Water Disposal | ☑ COM | □ Unit |

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Paduca** formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please 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 1100 feet (a minimum of 25 feet (Lea 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 4600 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.

Operator has proposed to pump down 13-3/8" X 9-5/8" annulus. Operator must run a CBL from TD of the 9-5/8" casing to surface. Submit results to BLM.

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.

Operator has proposed to pump down 9-5/8" X 7" annulus. <u>Operator must run a</u> <u>CBL from TD of the 7" casing to surface. Submit results to BLM.</u>

- 4. The minimum required fill of cement behind the $5 \times 4-1/2$ 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)

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 (575-393-3612 Lea 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.

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)

 - 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 Onshore Oil and Gas Order No. 2 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 intergrity 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 Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 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 OOGO2.III.A.2.i 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 when specified), 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 plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 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 to 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 Onshore Order No. 2.

C. DRILLING MUD

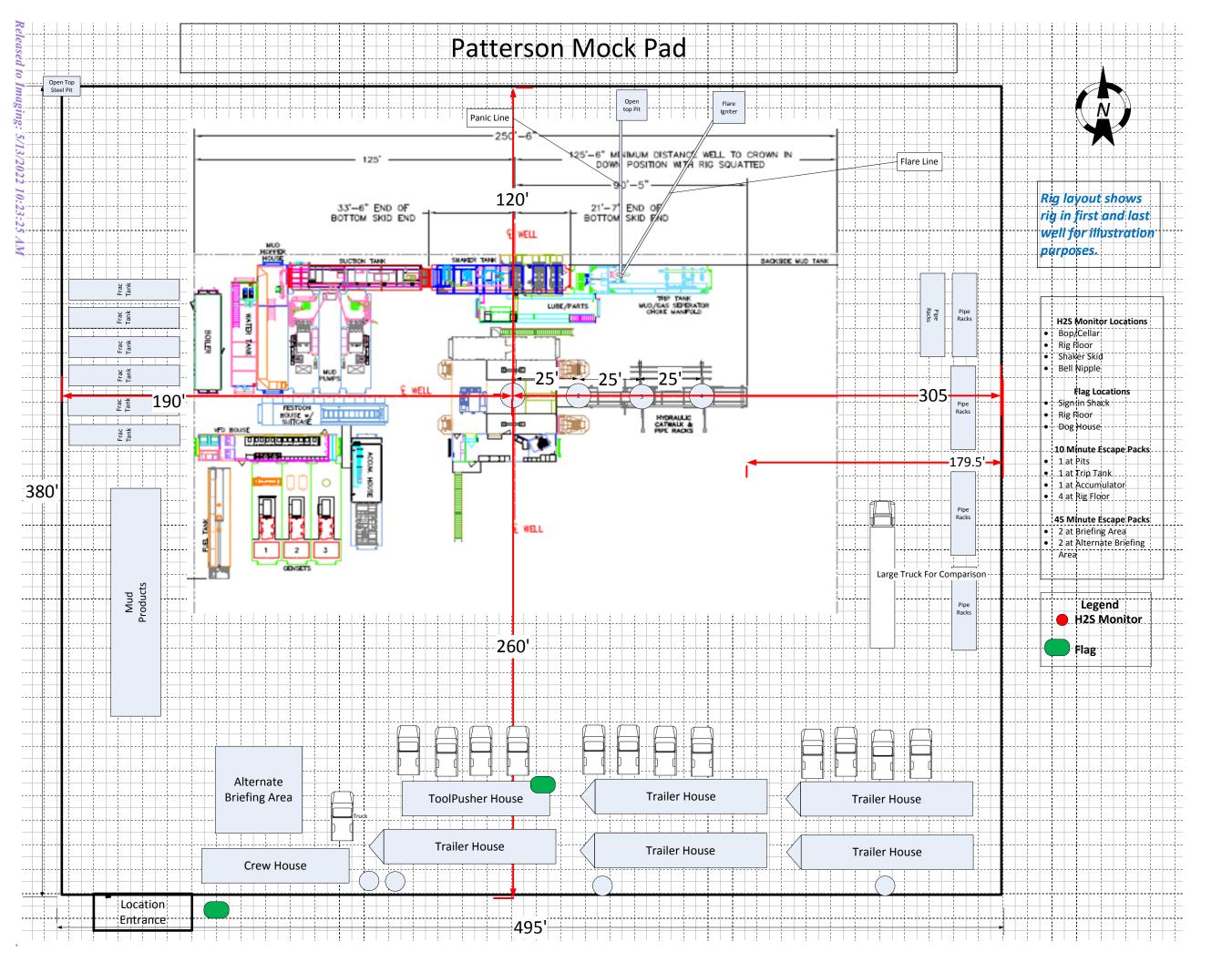
Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

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.

NMK - 4-4-2022





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

Drilling Plan Data Report

05/02/2022

APD ID: 10400070381

Well Type: OIL WELL

Submission Date: 03/04/2021

Highlighted data reflects the most recent changes

Operator Name: CHEVRON USA INCORPORATED

Well Number: 418H

Well Name: CO GRIZZLY 3 10 FED

Well Work Type: Drill

Show Final Text

Section 1 - Geologic Formations

| Formation ID | Formation Name | Elevation | True Vertical | Measured Depth | Lithologies | Mineral Resources | Producing Formatio |
|--------------|-----------------|-----------|---------------|-------------------|--------------------------------|-------------------|-----------------------|
| 1641752 | RUSTLER | 3503 | 890 | 890 | DOLOMITE | NONE | N |
| 1041732 | ROOTLER | 3303 | 000 | 000 | | | |
| 1641753 | SALADO | 2363 | 1140 | 1140 | SALT | NONE | N |
| 1641754 | CASTILE | -383 | 3886 | 3916 | ANHYDRITE | NONE | N |
| 1641755 | LAMAR | -1274 | 4777 | 4872 | LIMESTONE | NONE | N |
| 1641756 | BELL CANYON | -1317 | 4820 | 4915 | SANDSTONE | NONE | N |
| 1641758 | CHERRY CANYON | -2205 | 5708 | 5803 | SANDSTONE | NONE | N |
| 1641759 | BRUSHY CANYON | -3588 | 7091 | 7186 | SANDSTONE | NONE | N |
| 1641761 | BONE SPRING | -5217 | 8720 | 8815 | LIMESTONE | NATURAL GAS, OIL | N |
| 6960089 | AVALON SAND | -5312 | 8815 | 8910 | LIMESTONE, SANDSTONE, SHALE | NATURAL GAS, OIL | N |
| 6960090 | BONE SPRING 1ST | -6234 | 9737 | 9880 | SANDSTONE | NATURAL GAS, OIL | N |
| 6960091 | BONE SPRING 2ND | -6889 | 10392 | 10626 | LIMESTONE, SANDSTONE | NATURAL GAS, OIL | Y |
| 6960092 | BONE SPRING 2ND | -6947 | 10450 | 21465 | LIMESTONE, SANDSTONE | NATURAL GAS, OIL | Y |

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M Rating Depth: 10450

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

Requesting Variance? YES

BLOWOUT PREVENTER SCHEMATIC

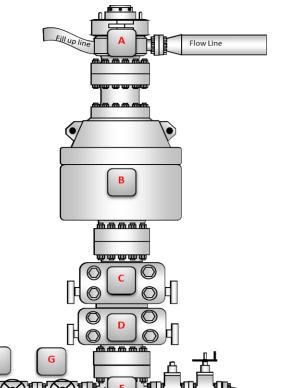
Operation: Intermediate & Production Drilling Operations

Minimum System operation pressure

| | | 7 | I | | | | | | | |
|------|------------------|-----------|---------------------------|--|--|--|--|--|--|--|
| | | BOP Stack | | | | | | | | |
| Part | Size | Pressure | Description | | | | | | | |
| | | Rating | | | | | | | | |
| Α | 13-5/8" | N/A | Rotating Head/Bell nipple | | | | | | | |
| В | 13-5/8" | 5,000 | Annular | | | | | | | |
| С | 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 | | | | | | | |
| | <u>Kill Line</u> | | | | | | | | | |
| Part | Size | Pressure | Description | | | | | | | |

| Kill Ellie | | | | | |
|------------|------|----------|------------------------------|--|--|
| Part | Size | Pressure | Description | | |
| | | Rating | | | |
| G | 2" | 10,000 | Inside Kill Line Valve (gate | | |
| | | | valve) | | |
| Н | 2" | 10,000 | Outside Kill Line Valve | | |
| | | | (gate valve) | | |
| ı | 2" | 10,000 | Kill Line Check valve | | |
| | | | | | |





| <u>Choke line</u> | | | | | | |
|-------------------|-----------------|----------|-------------------------|--|--|--|
| Part | Size | Pressure | Description | | | |
| | | Rating | | | | |
| J | 3" | 10,000 | HCR (gate valve) | | | |
| К | 3" | 10,000 | Manual HCR (gate valve) | | | |
| | <u>Wellhead</u> | | | | | |
| Part | Size | Pressure | Description | | | |
| | | Rating | | | | |
| L | 13-5/8" | 5,000 | FMC Multibowl wellhead | | | |

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

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

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

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

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

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

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

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

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

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 103171

CONDITIONS

| Operator: | OGRID: |
|-------------------|---|
| CHEVRON U S A INC | 4323 |
| | Action Number: |
| Midland, TX 79706 | 103171 |
| | Action Type: |
| | [C-101] BLM - Federal/Indian Land Lease (Form 3160-3) |

CONDITIONS

| Created By | Condition | Condition Date |
|---------------|--|-------------------|
| pkautz | Will require a File As Drilled C-102 and a Directional Survey with the C-104 | 5/13/2022 |
| pkautz | Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string | 5/13/2022 |
| pkautz | Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system | 5/13/2022 |
| pkautz | Cement is required to circulate on both surface and intermediate1 strings of casing | 5/13/2022 |