

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

HOBBS OCD
JAN 09 2020
RECEIVED

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

1a. Type of work: ☒ DRILL ☐ REENTER
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other
1c. Type of Completion: ☐ Hydraulic Fracturing ☒ Single Zone ☐ Multiple Zone

5. Lease Serial No.
NMNM118722

6. If Indian, Allottee or Tribe Name

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

8. Lease Name and Well No.

SD 15 FED P418
7H (326867)

2. Name of Operator
CHEVRON USA INCORPORATED (4323)

9. API Well No.

30-025-46725

3a. Address
6301 Deauville Blvd. Midland TX 79706

3b. Phone No. (include area code)
(432)687-7866

10. Field and Pool, or Exploratory 98065
ANTELOPE RIDGE / ANTELOPE RIDGE

4. Location of Well (Report location clearly and in accordance with any State requirements. *)
At surface SWSE / 574 FSL / 2601 FEL / LAT 32.0371669 / LONG -103.662586
At proposed prod. zone NWNW / 25 FNL / 330 FWL / LAT 32.050207 / LONG -103.670276

11. Sec., T. R. M. or Blk. and Survey or Area
SEC 15 / T26S / R32E / NMP

14. Distance in miles and direction from nearest town or post office*
29 miles

12. County or Parish
LEA

13. State
NM

15. Distance from proposed* location to nearest property or lease line, ft.
(Also to nearest drig. unit line, if any)
574 feet

16. No of acres in lease
3080

17. Spacing Unit dedicated to this well
160

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.
775 feet

19. Proposed Depth
11979 feet / 17313 feet

20. BLM/BIA Bond No. in file
FED: ES0022

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3157 feet

22. Approximate date work will start*
01/15/2020

23. Estimated duration
130 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)
Laura Becerra / Ph: (432)687-7665

Date
08/07/2019

Title
Permitting Specialist

Approved by (Signature)
(Electronic Submission)

Name (Printed/Typed)
Christopher Walls / Ph: (575)234-2234

Date
01/03/2020

Title
Petroleum Engineer

Office
CARLSBAD

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.

6CP Rec 01/09/2020

KZ
01/15/2020

APPROVED WITH CONDITIONS
Approval Date: 01/03/2020

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM connects this information to an evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

1. SHL: SWSE / 574 FSL / 2601 FEL / TWSP: 26S / RANGE: 32E / SECTION: 15 / LAT: 32.0371669 / LONG: -103.662586 (TVD: 0 feet, MD: 0 feet)

PPP: SWSW / 100 FSL / 330 FWL / TWSP: 26S / RANGE: 32E / SECTION: 15 / LAT: 32.0358469 / LONG: -103.670328 (TVD: 11979 feet, MD: 11979 feet)

BHL: NWNW / 25 FNL / 330 FWL / TWSP: 26S / RANGE: 32E / SECTION: 15 / LAT: 32.050207 / LONG: -103.670276 (TVD: 11979 feet, MD: 17313 feet)

BLM Point of Contact

Name:

Title:

Phone:

Email:

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

Approval Date: 01/03/2020

(Form 3160-3, page 4)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CHEVRON USA INCORPORATED
LEASE NO.:	NMNM118722
LOCATION:	Section 15, T.26 S., R.32 E., NMP
COUNTY:	Lea County, New Mexico

WELL NAME & NO.:	SD 15 FED P418 7H
SURFACE HOLE FOOTAGE:	574'/S & 2601'/E
BOTTOM HOLE FOOTAGE:	25'/N & 330'/W

WELL NAME & NO.:	SD 15 FED P418 8H
SURFACE HOLE FOOTAGE:	574'/S & 2576'/E
BOTTOM HOLE FOOTAGE:	25'/N & 990'/W

WELL NAME & NO.:	SD 15 FED P418 9H
SURFACE HOLE FOOTAGE:	574'/S & 2551'/E
BOTTOM HOLE FOOTAGE:	25'/N & 1650'/W

WELL NAME & NO.:	SD 15 FED P418 10H
SURFACE HOLE FOOTAGE:	574'/S & 2526'/E
BOTTOM HOLE FOOTAGE:	25'/N & 2310'/W

COA

H2S	<input checked="" type="radio"/> Yes	<input 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 checked="" type="radio"/> Medium	<input 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

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Mason** 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 **630** 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 surface casing shall be set at approximately **4475** 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 **Medium Cave/Karst Areas** if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

3. The minimum required fill of cement behind the **7-5/8 inch 2nd** intermediate liner casing is:

Option 1 (Single Stage):

- Cement should tie-back at least **100 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 **100 feet** into previous casing string. Operator shall provide method of verification.
4. The minimum required fill of cement behind the **5 1/2 inch x 5 inch** production casing is:
 - Cement should tie-back **200 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 **5000 (5M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **10,000 (10M)** 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 **10,000 (10M)** 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.

Well Name

Operator must submit a sundry to add "Unit" to the well name.

GENERAL REQUIREMENTS

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

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

☒ Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
393-3612

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 integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 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.

NMK1262019

**PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL**

OPERATOR'S NAME: Chevron USA Incorporated

LEASE NO: NMNM118722

LOCATION: Section 15, T.26 S., R.32 E., NMPM

**Well Pads 418 & 419
Satellite Facility,
Surface & Buried Pipelines, and
Overhead Power Lines**

Well Pad 418

SD 15 FED P418 7H

Surface Hole Location: 574' FSL & 2601' FEL, Section 15, T. 26 S., R. 32 E.
Bottom Hole Location: 25' FNL & 330' FWL, Section 15, T. 26 S, R 32 E.

SD 15 FED P418 8H

Surface Hole Location: 574' FSL & 2576' FEL, Section 15, T. 26 S., R. 32 E.
Bottom Hole Location: 25' FNL & 990' FWL, Section 15, T. 26 S, R 32 E.

SD 15 FED P418 9H

Surface Hole Location: 574' FSL & 2551' FEL, Section 15, T. 26 S., R. 32 E.
Bottom Hole Location: 25' FNL & 1650' FWL, Section 15, T. 26 S, R 32 E.

SD 15 FED P418 10H

Surface Hole Location: 574' FSL & 2526' FEL, Section 15, T. 26 S., R. 32 E.
Bottom Hole Location: 25' FNL & 2310' FWL, Section 15, T. 26 S, R 32 E.

Well Pad 419

SD 15 FED P419 11H

Surface Hole Location: 577' FSL & 1020' FEL, Section 15, T. 26 S., R. 32 E.
Bottom Hole Location: 25' FNL & 2310' FEL, Section 15, T. 26 S, R 32 E.

SD 15 FED P419 12H

Surface Hole Location: 577' FSL & 995' FEL, Section 15, T. 26 S., R. 32 E.
Bottom Hole Location: 25' FNL & 1650' FEL, Section 15, T. 26 S, R 32 E.

SD 15 FED P419 13H

Surface Hole Location: 577' FSL & 970' FEL, Section 15, T. 26 S., R. 32 E.
Bottom Hole Location: 25' FNL & 990' FEL, Section 15, T. 26 S, R 32 E.

SD 15 FED P419 14H

Surface Hole Location: 577' FSL & 945' FEL, Section 15, T. 26 S., R. 32 E.
Bottom Hole Location: 25' FNL & 330' FEL, Section 15, T. 26 S, R 32 E

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

- ☐ **General Provisions**
- ☐ **Permit Expiration**
- ☐ **Archaeology, Paleontology, and Historical Sites**
- ☐ **Noxious Weeds**
- ☒ **Special Requirements**
 - Hydrology
 - Cave/Karst
- ☐ **Construction**
 - Notification
 - Topsoil
 - Closed Loop System
 - Federal Mineral Material Pits
 - Well Pads
 - Roads
- ☐ **Road Section Diagram**
- ☒ **Production (Post Drilling)**
 - Well Structures & Facilities
 - Pipelines
- ☐ **Interim Reclamation**
- ☐ **Final Abandonment & Reclamation**

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for

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, 2018

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		5. Lease Serial No. NMNM118722 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No. SD 15 FED P418 7H 9. API Well No.
2. Name of Operator CHEVRON USA INCORPORATED 3a. Address 6301 Deauville Blvd. Midland TX 79706 3b. Phone No. (include area code) (432)687-7866		10. Field and Pool, or Exploratory ANTELOPE RIDGE / ANTELOPE RIDGE 11. Sec., T. R. M. or Blk. and Survey or Area SEC 15 / T26S / R32E / NMP
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWSE / 574 FSL / 2601 FEL / LAT 32.0371669 / LONG -103.662586 At proposed prod. zone NWNW / 25 FNL / 330 FWL / LAT 32.050207 / LONG -103.670276		12. County or Parish LEA 13. State NM
14. Distance in miles and direction from nearest town or post office* 29 miles		15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 574 feet
16. No of acres in lease 3080		17. Spacing Unit dedicated to this well 160
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 775 feet		19. Proposed Depth 11979 feet / 17313 feet
20. BLM/BIA Bond No. in file FED: ES0022		21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3157 feet
22. Approximate date work will start* 01/15/2020		23. Estimated duration 130 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) Laura Becerra / Ph: (432)687-7665	Date 08/07/2019
Title Permitting Specialist		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Christopher Walls / Ph: (575)234-2234	Date 01/03/2020
Title Petroleum Engineer		

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.



INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM connects this information to an evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

1. SHL: SWSE / 574 FSL / 2601 FEL / TWSP: 26S / RANGE: 32E / SECTION: 15 / LAT: 32.0371669 / LONG: -103.662586 (TVD: 0 feet, MD: 0 feet)

PPP: SWSW / 100 FSL / 330 FWL / TWSP: 26S / RANGE: 32E / SECTION: 15 / LAT: 32.0358469 / LONG: -103.670328 (TVD: 11979 feet, MD: 11979 feet)

BHL: NWNW / 25 FNL / 330 FWL / TWSP: 26S / RANGE: 32E / SECTION: 15 / LAT: 32.050207 / LONG: -103.670276 (TVD: 11979 feet, MD: 17313 feet)

BLM Point of Contact

Name:

Title:

Phone:

Email:

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CHEVRON USA INCORPORATED
LEASE NO.:	NMNM118722
LOCATION:	Section 15, T.26 S., R.32 E., NMP
COUNTY:	Lea County, New Mexico

WELL NAME & NO.:	SD 15 FED P418 7H
SURFACE HOLE FOOTAGE:	574'/S & 2601'/E
BOTTOM HOLE FOOTAGE:	25'/N & 330'/W

WELL NAME & NO.:	SD 15 FED P418 8H
SURFACE HOLE FOOTAGE:	574'/S & 2576'/E
BOTTOM HOLE FOOTAGE:	25'/N & 990'/W

WELL NAME & NO.:	SD 15 FED P418 9H
SURFACE HOLE FOOTAGE:	574'/S & 2551'/E
BOTTOM HOLE FOOTAGE:	25'/N & 1650'/W

WELL NAME & NO.:	SD 15 FED P418 10H
SURFACE HOLE FOOTAGE:	574'/S & 2526'/E
BOTTOM HOLE FOOTAGE:	25'/N & 2310'/W

COA

H2S	<input checked="" type="radio"/> Yes	<input 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 checked="" type="radio"/> Medium	<input 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

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Mason** 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 **630** 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 surface casing shall be set at approximately **4475** 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 **Medium Cave/Karst Areas** if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

3. The minimum required fill of cement behind the 7-5/8 inch 2nd intermediate liner casing is:

Option 1 (Single Stage):

- Cement should tie-back at least **100 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 **100 feet** into previous casing string. Operator shall provide method of verification.

4. The minimum required fill of cement behind the 5 1/2 inch x 5 inch production casing is:

- Cement should tie-back **200 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 **5000 (5M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **10,000 (10M)** 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 **10,000 (10M)** 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.

Well Name

Operator must submit a sundry to add "Unit" to the well name.

GENERAL REQUIREMENTS

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

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

☒ Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
393-3612

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 integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 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.

NMK1262019

1. FORMATION TOPS

The estimated tops of important geologic markers are as follows:

FORMATION	SUB-SEA TVD	KBTVD	MD
Rustler (RSLR)		624	
Castile (CSTL)		2677	
Lamar (LMAR)		4470	
Bell Canyon (BLCN)		4518	
Cherry Canyon (CRCN)		5454	
Brushy Canyon (BCN)		7071	
Bone Spring (BSGL)		8624	
Upper Avalon (AVN)		8703	
Top Bone Spring 1 (FBS)		9515	
Top Bone Spring 2 (SBU)		10195	
Third Bone Spring 1st Carbonate (10693	
Top Bone Spring 3 (TBS)		11356	
Wolfcamp A (WCA)		11773	
Wolfcamp A Target 1		11894	
Wolfcamp A Target 2		11940	
Wolfcamp B (WCB)		12522	
Lateral TD (Wolfcamp A1)		11,979	17313

2. ESTIMATED DEPTH OF WATER, OIL, GAS & OTHER MINERAL BEARING FORMATIONS

The estimated depths at which the top and bottom of the anticipated water, oil, gas, or other mineral bearing formations are expected to be encountered are as follows:

Substance	Formation	Depth
Deepest Expected Base of Fresh Water		700
Water	Rustler	624
Water	Bell Canyon	4518
Water	Cherry Canyon	5454
Oil/Gas	Brushy Canyon	7071
Oil/Gas	Bone Spring (BSGL)	8624
Oil/Gas	Upper Avalon (AVN)	8703
Oil/Gas	Top Bone Spring 1	9515
Oil/Gas	Top Bone Spring 2	10195
Oil/Gas	Top Bone Spring 3	11356
Oil/Gas	Wolfcamp	11773
Oil/Gas	Wolfcamp A Target 1	11894
Oil/Gas	Wolfcamp A Target 2	11940

All shows of fresh water and minerals will be reported and protected.

3. BOP EQUIPMENT

Will have a minimum of a 10000 psi rig stack (see proposed schematic) for drill out below surface (Wolfcamp is not exposed until drillout of the intermediate casing). Could possibly utilize the 5000 psi rig stack (see proposed schematic) for drill out below surface casing due to the availability of 10 M annular. (Wolfcamp is not exposed until drillout of the intermediate casing) 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 unless approval from 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.

Chevron requests a variance to use a FMC UH-S Multibowl wellhead, which will be run through the rig floor on surface casing. BOPE will be nipped up and tested after cementing surface casing. Subsequent tests will be performed as needed, not to exceed 30 days. The field report from FMC 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.

4. CASING PROGRAM

a. The proposed casing program will be as follows:

Purpose	From	To	Hole Size	Csg Size	Weight	Grade	Thread	Condition
Surface	0'	850'	17-1/2"	13-3/8"	54.5 #	J55	BTC	New
Intermediate 1	0'	4900'	12-1/4"	9-5/8"	43.5#	L-80IC	LTC	New
Intermediate 2 (Liner)	4,400'	11,500'	8-1/2"	7-5/8"	29.7 #	L-80	W-513	New
Production	0'	11,000'	6-3/4"	5.5"	20#	P-110-ICY	TXP BTC	New
(Taper String)	11,000'	17,313'	6-3/4"	5"	18#	P-110 IC	W-521	New

b. Casing design subject to revision based on geologic conditions encountered.

c. ***A "Worst Case" casing design for wells in a particular area is used below to calculate the Casing Safety Factors. If for any reason the casing design for a particular well requires setting casing deeper than the following "worst case" design, then the Casing Safety Factors will be recalculated & sent to the BLM prior to drilling.

d. Chevron will fill casing at a minimum of every 20 jts (840') while running for intermediate and production casing in order to maintain collapse SF.

SF Calculations based on the following "Worst Case" casing design:

Surface Casing: 1150' TVD
Intermediate Casing: 5132' TVD
Intermediate Liner: 11,650' TVD
Production Casing: 23,000' MD/12,852' TVD (10,300' VS @ 90 deg inc)
4 String Design

Casing String	Min SF Burst	Min SF Collapse	Min SF Tension	Min SF Tri-Axial
Surface	1.48	2.10	4.91	1.80
Intermediate	1.52	1.87	2.79	1.83
Liner	1.33	2.59	1.60	1.66
Production	1.10	1.39	1.61	1.32

Min SF is the smallest of a group of safety factors that include the following considerations:

	Surf	Int (1)	Int 2 (Liner)	Prod
Burst Design				
Pressure Test- Surface, Int, Prod Csg P external: Water P internal: Test psi + next section heaviest mud in csg	X	X	X	X
Displace to Gas- Surf Csg P external: Water P internal: Dry Gas from Next Csg Point	X			
Frac at Shoe, Gas to Surf- Int Csg P external: Water P internal: Dry Gas, 16 ppg Frac Gradient		X	X	
Stimulation (Frac) Pressures- Prod Csg P external: Water P internal: Max inj pressure w/ heaviest injected fluid				X
Tubing leak- Prod Csg P external: Water P internal: Leak just below surf, 8.7 ppg packer fluid				X
Collapse Design				
Full Evacuation P external: Water gradient in cement, mud above TOC P internal: none	X	X	X	X
Cementing- Surf, Int, Prod Csg P external: Wet cement P internal: water	X	X	X	X
Tension Design				
100k lb overpull	X	X	X	X

5. CEMENTING PROGRAM

Slurry	Type	Top	Bottom	Weight	Yield	%Excess	Sacks	Water	Additives
Surface				(ppg)	(sx/cu ft)	Open Hole		gal/sk	
Tail	Class C	0'	850'	14.8	1.33	50	650	6.57	Extender Antifoam Retarder
Intermediate									
Lead	Class C	0'	4600	11.9	2.56	110	3704	14.69	Antifoam Extender Salt Retarder Viscosifier
Tail	Class C	4600	4900	14.8	1.33	110	576	6.29	Antifoam Retarder Viscosifier
Liner									
Lead	Class C	4,600'	11,150'	11.9	2.56	140	462	14.69	Antifoam Extender Salt Retarder Viscosifier
Tail	Class C	11,150'	11,650'	14.8	1.33	50	59	6.29	Antifoam Extender Salt Retarder Viscosifier
Production									
Lead	Class H	8,000'	15,813'	15.6	1.184	35	1558	5.18	Antifoam Dispersent Fluid Loss Retarder Viscosifier
Tail	Class H	15,813'	17,313'	16.0	1.903	20	110	7.45	Antifoam Dispersent Fluid Loss Retarder Viscosifier

1. Final cement volumes will be determined by caliper.
2. Surface casing shall have at least one centralizer installed on each of the bottom three joints starting with the shoe joint.
3. Production casing will have one horizontal type centralizer on every joint for the first 1000' from TD, then every other joint to EOB, and then every third joint to KOP. Bowspring type centralizers will be run from KOP to intermediate casing.

6. MUD PROGRAM

From	To	Type	Weight	F. Vis	Filtrate
0'	850'	Spud Mud	8.3-8.7	32 - 34	NC - NC
850'	4,900'	Brine	9.4-10.6	28 - 30	25-30
4,900'	11,500'	Cut Brine	8.8-10.0	70 - 75	25 - 30
11,500'	17,313'	Oil Based Mud	12.0-14.8	70 - 75	25 - 30

A closed system will be utilized 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.

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.

7. TESTING, LOGGING, AND CORING

The anticipated type and amount of testing, logging, and coring are as follows:

- a. Drill stem tests are not planned.
- b. The logging program will be as follows:

TYPE	Logs	Interval	Timing	Vendor
Mudlogs	2 man mudlog	Int Csg to TD	Drillout of Int Csg	TBD
LWD	MWD Gamma	Int. and Prod. Hole	While Drilling	TBD

- c. Conventional whole core samples are not planned.
- d. A Directional Survey will be run.

8. ABNORMAL PRESSURES AND HYDROGEN SULFIDE

- a. No abnormal pressures or temperatures are expected. Estimated BHP at intermediate TD is: 5750 psi
No abnormal pressures or temperatures are expected. Estimated BHP at production TD is: 8650 psi
- b. Hydrogen sulfide gas is not anticipated. An H2S Contingency plan is attached with this APD in the event that H2S is encountered



H₂S Preparedness and Contingency Plan Summary

SD 15 FED P418

Training

MCBU Drilling and Completions H₂S training requirements are intended to define the minimum level of training required for employees, contractors and visitors to enter or perform work at MCBU Drilling and Completions locations that have known concentrations of H₂S.

Awareness Level

Employees and visitors to MCBU Drilling and Completions locations that have known concentrations of H₂S, who are not required to perform work in H₂S areas, will be provided with an awareness level of H₂S training prior to entering any H₂S areas. At a minimum, awareness level training will include:

1. Physical and chemical properties of H₂S
2. Health hazards of H₂S
3. Personal protective equipment
4. Information regarding potential sources of H₂S
5. Alarms and emergency evacuation procedures

Awareness level training will be developed and conducted by personnel who are qualified either by specific training, educational experience and/or work-related background.

Advanced Level H₂S Training

Employees and contractors required to work in areas that may contain H₂S will be provided with Advanced Level H₂S training prior to initial assignment. In addition to the Awareness Level requirements, Advanced Level H₂S training will include:

1. H₂S safe work practice procedures;
2. Emergency contingency plan procedures;
3. Methods to detect the presence or release of H₂S (e.g., alarms, monitoring equipment), including hands-on training with direct reading and personal monitoring H₂S equipment.
4. Basic overview of respiratory protective equipment suitable for use in H₂S environments. Note: Employees who work at sites that participate in the Chevron Respirator User program will require separate respirator training as required by the MCBU Respiratory Protection Program;
5. Basic overview of emergency rescue techniques, first aid, CPR and medical evaluation procedures. Employees who may be required to perform "standby" duties are required to receive additional first aid and CPR training, which is not covered in the Advanced Level H₂S training;
6. Proficiency examination covering all course material.

Advanced H₂S training courses will be instructed by personnel who have successfully completed an appropriate H₂S train-the-trainer development course (ANSI/ASSE Z390.1-2006) or who possess significant past experience through educational or work-related background.



H₂S Preparedness and Contingency Plan Summary

H₂S Training Certification

All employees and visitors will be issued an H₂S training certification card (or certificate) upon successful completion of the appropriate H₂S training course. Personnel working in an H₂S environment will carry a current H₂S training certification card as proof of having received the proper training on their person at all times.

Briefing Area

A minimum of two briefing areas will be established in locations that at least one area will be upwind from the well at all times. Upon recognition of an emergency situation, all personnel should assemble at the designated upwind briefing areas for instructions.

H₂S Equipment

Respiratory Protection

- a) Six 30 minute SCBAs – 2 at each briefing area and 2 in the Safety Trailer.
- b) Eight 5 minute EBAs – 5 in the dog house at the rig floor, 1 at the accumulator, 1 at the shale shakers and 1 at the mud pits.

Visual Warning System

- a) One color code sign, displaying all possible conditions, will be placed at the entrance to the location with a flag displaying the current condition.
- b) Two windsocks will be on location, one on the dog house and one on the Drill Site Manager's Trailer.

H₂S Detection and Monitoring System

- a) H₂S monitoring system (sensor head, warning light and siren) placed throughout rig.
 - Drilling Rig Locations: at a minimum, in the area of the Shale shaker, rig floor, and bell nipple.
 - Workover Rig Locations: at a minimum, in the area of the Cellar, rig floor and circulating tanks or shale shaker.



H₂S Preparedness and Contingency Plan Summary

Well Control Equipment

- a) Flare Line 150' from wellhead with igniter.
- b) Choke manifold with a remotely operated choke.
- c) Mud / gas separator

Mud Program

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

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

Public Safety - Emergency Assistance

<u>Agency</u>	<u>Telephone Number</u>
Lea County Sheriff's Department	575-396-3611
Fire Department:	
Carlsbad	575-885-3125
Artesia	575-746-5050
Lea County Regional Medical Center	575-492-5000
Jal Community Hospital	505-395-2511
Lea County Emergency Management	575-396-8602
Poison Control Center	800-222-1222



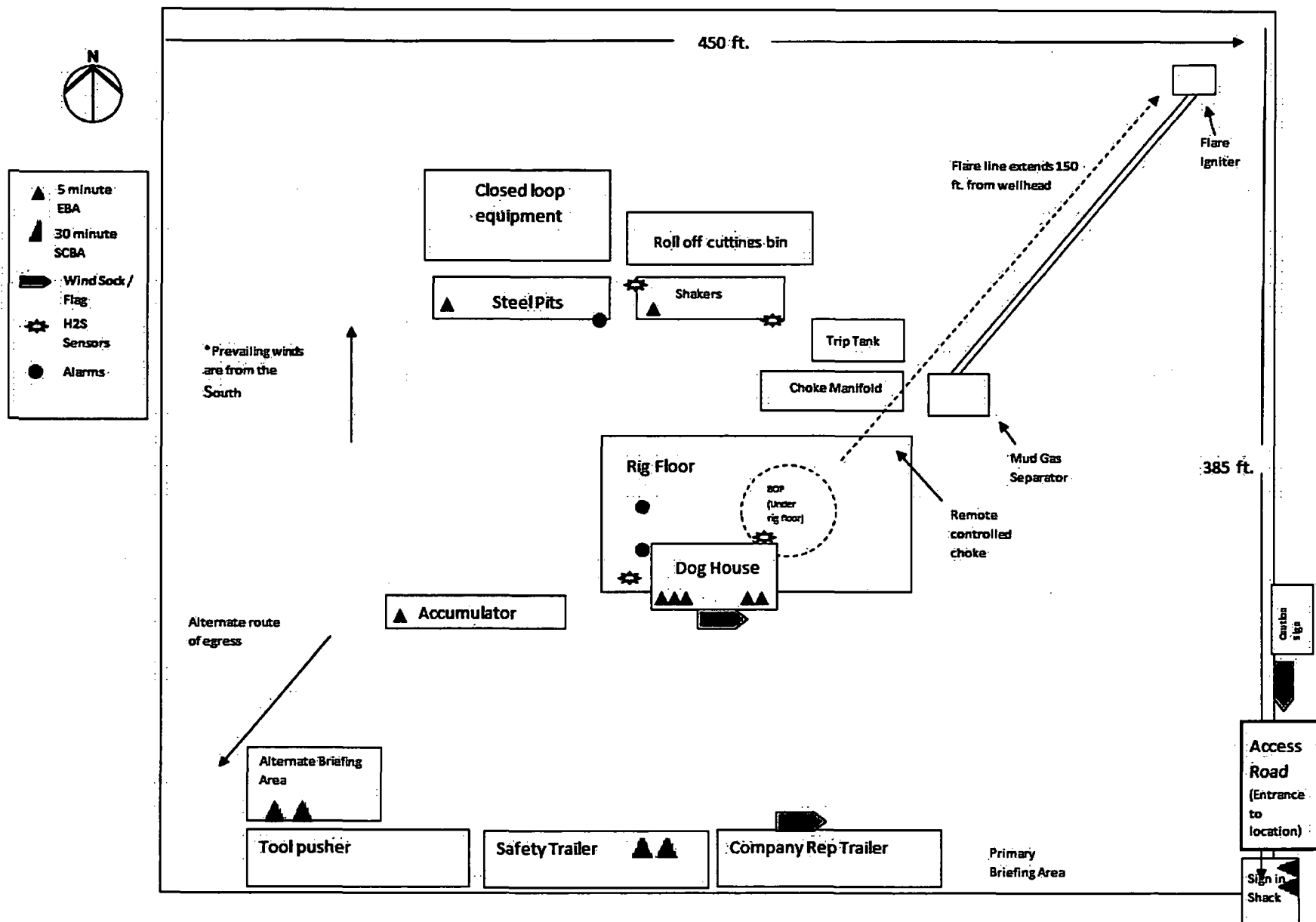
H₂S Preparedness and Contingency Plan Summary

Chevron MCBU D&C Emergency Notifications

Below are lists of contacts to be used in emergency situations.

	Name	Title	Office Number	Cell Phone
1.	Tony Bacon	Drilling Engineer	(713) 372-4025	(406) 989-0415
2.	Chuck Schaff	Superintendent	(713) 372-4500	(281) 714-9329
5.	Scott Bowman	Drilling Manager	(713) 372-4479	(713) 492-4479
6.	Kyle Eastman	Operations Manager		(281) 755-6554
7.	Scott Simpson	D&C HES	(713) 372-7597	(281) 414 -6675
8.	Cynthia Lynch	Completion Engineer		(281) 254-0483

H₂S Preparedness and Contingency Plan Summary



Chevron SD 15 Fed P418 7H Rev0 kFc 18Jul19 Proposal Geodetic Report

(Def Plan)

Report Date: July 17, 2019 - 07:22 PM
 Client: Chevron
 Field: NM Lea County (NAD 27)
 Structure / Slot: Chevron SD 15 Fed P418 Pad / 7H
 Well: SD 15 Fed P418 7H
 Borehole: SD 15 Fed P418 7H
 UWI / API#: Unknown / Unknown
 Survey Name: Chevron SD 15 Fed P418 7H Rev0 kFc 18Jul19
 Survey Date: July 17, 2019
 Tort / AHD / ODI / ERD Ratio: 119.953' / 7732.332' / 6.127' / 0.645
 Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 2' 13.35158", W 103° 39' 43.62000"
 Location Grid N/E Y/X: N 377848.000 NUS, E 707992.000 NUS
 CRS Grid Convergence Angle: 0.3561°
 Grid Scale Factor: 0.99995864
 Version / Patch: 2.10.760.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 359.830° (Grid North)
 Vertical Section Origin: 0.000' N, 0.000' E
 TVD Reference Datum: RKB = 31.5ft
 TVD Reference Elevation: 3188.500 ft above
 Seabed / Ground Elevation: 3157.000 ft above
 Magnetic Declination: 6.655°
 Total Gravity Field Strength: 998.4325mgn (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 47686.506 nT
 Magnetic Dip Angle: 59.624°
 Declination Date: July 17, 2019
 Magnetic Declination Model: HDGM 2019
 North Reference: Grid North
 Grid Convergence Used: 0.3561°
 Total Corr Mag North-Grid North: 6.2991°
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	377848.00	707992.00	N 32° 2' 13.35"	W 103° 39' 43.62"
	100.00	0.00	257.18	100.00	0.00	0.00	0.00	0.00	377848.00	707992.00	N 32° 2' 13.35"	W 103° 39' 43.62"
	200.00	0.00	257.18	200.00	0.00	0.00	0.00	0.00	377848.00	707992.00	N 32° 2' 13.35"	W 103° 39' 43.62"
	300.00	0.00	257.18	300.00	0.00	0.00	0.00	0.00	377848.00	707992.00	N 32° 2' 13.35"	W 103° 39' 43.62"
	400.00	0.00	257.18	400.00	0.00	0.00	0.00	0.00	377848.00	707992.00	N 32° 2' 13.35"	W 103° 39' 43.62"
	500.00	0.00	257.18	500.00	0.00	0.00	0.00	0.00	377848.00	707992.00	N 32° 2' 13.35"	W 103° 39' 43.62"
	600.00	0.00	257.18	600.00	0.00	0.00	0.00	0.00	377848.00	707992.00	N 32° 2' 13.35"	W 103° 39' 43.62"
Rustler	624.03	0.00	257.18	624.03	0.00	0.00	0.00	0.00	377848.00	707992.00	N 32° 2' 13.35"	W 103° 39' 43.62"
	700.00	0.00	257.18	700.00	0.00	0.00	0.00	0.00	377848.00	707992.00	N 32° 2' 13.35"	W 103° 39' 43.62"
	800.00	0.00	257.18	800.00	0.00	0.00	0.00	0.00	377848.00	707992.00	N 32° 2' 13.35"	W 103° 39' 43.62"
13 3/8" Casing	850.00	0.00	257.18	850.00	0.00	0.00	0.00	0.00	377848.00	707992.00	N 32° 2' 13.35"	W 103° 39' 43.62"
	900.00	0.00	257.18	900.00	0.00	0.00	0.00	0.00	377848.00	707992.00	N 32° 2' 13.35"	W 103° 39' 43.62"
Build 1.5"/100ft	950.00	0.00	257.18	950.00	0.00	0.00	0.00	0.00	377848.00	707992.00	N 32° 2' 13.35"	W 103° 39' 43.62"
	1000.00	0.75	257.18	1000.00	-0.07	-0.07	-0.32	1.50	377847.93	707991.68	N 32° 2' 13.35"	W 103° 39' 43.62"
	1100.00	2.25	257.18	1099.96	-0.64	-0.65	-2.87	1.50	377847.35	707989.13	N 32° 2' 13.35"	W 103° 39' 43.65"
	1200.00	3.75	257.18	1199.82	-1.79	-1.81	-7.97	1.50	377846.19	707984.03	N 32° 2' 13.33"	W 103° 39' 43.71"
	1300.00	5.25	257.18	1299.51	-3.51	-3.55	-15.62	1.50	377844.45	707976.38	N 32° 2' 13.32"	W 103° 39' 43.80"
	1400.00	6.75	257.18	1398.96	-5.80	-5.87	-25.82	1.50	377842.13	707966.18	N 32° 2' 13.30"	W 103° 39' 43.92"
	1500.00	8.25	257.18	1498.10	-8.65	-8.77	-38.54	1.50	377839.23	707953.46	N 32° 2' 13.27"	W 103° 39' 44.07"
	1600.00	9.75	257.18	1596.87	-12.08	-12.24	-53.80	1.50	377835.76	707938.20	N 32° 2' 13.23"	W 103° 39' 44.25"
	1700.00	11.25	257.18	1695.19	-16.07	-16.28	-71.57	1.50	377831.72	707920.44	N 32° 2' 13.19"	W 103° 39' 44.45"
	1800.00	12.75	257.18	1793.00	-20.62	-20.89	-91.84	1.50	377827.11	707900.16	N 32° 2' 13.15"	W 103° 39' 44.69"
	1900.00	14.25	257.18	1890.24	-25.73	-26.07	-114.60	1.50	377821.93	707877.40	N 32° 2' 13.10"	W 103° 39' 44.95"
Hold	1950.02	15.00	257.18	1938.64	-28.49	-28.87	-126.92	1.50	377819.13	707865.09	N 32° 2' 13.07"	W 103° 39' 45.10"
	2000.00	15.00	257.18	1886.91	-31.33	-31.74	-139.53	0.00	377816.26	707852.48	N 32° 2' 13.05"	W 103° 39' 45.24"
	2100.00	15.00	257.18	2083.50	-38.99	-37.48	-164.77	0.00	377810.52	707827.24	N 32° 2' 12.99"	W 103° 39' 45.54"
	2200.00	15.00	257.18	2180.10	-42.66	-43.22	-190.01	0.00	377804.78	707802.00	N 32° 2' 12.94"	W 103° 39' 45.83"
	2300.00	15.00	257.18	2276.69	-48.32	-48.96	-215.24	0.00	377799.04	707776.77	N 32° 2' 12.88"	W 103° 39' 46.12"
	2400.00	15.00	257.18	2373.28	-53.99	-54.70	-240.48	0.00	377793.30	707751.53	N 32° 2' 12.83"	W 103° 39' 46.42"
	2500.00	15.00	257.18	2469.87	-59.65	-60.44	-265.72	0.00	377787.56	707726.29	N 32° 2' 12.77"	W 103° 39' 46.71"
	2600.00	15.00	257.18	2566.47	-65.32	-66.18	-290.96	0.00	377781.82	707701.06	N 32° 2' 12.71"	W 103° 39' 47.00"
	2700.00	15.00	257.18	2663.06	-70.99	-71.93	-316.20	0.00	377776.08	707675.82	N 32° 2' 12.66"	W 103° 39' 47.30"
Castile	2714.58	15.00	257.18	2677.14	-71.81	-72.76	-319.87	0.00	377775.24	707672.14	N 32° 2' 12.65"	W 103° 39' 47.34"
	2800.00	15.00	257.18	2759.65	-76.65	-77.67	-341.43	0.00	377770.34	707650.58	N 32° 2' 12.60"	W 103° 39' 47.59"
	2900.00	15.00	257.18	2856.24	-82.32	-83.41	-366.67	0.00	377764.60	707625.34	N 32° 2' 12.55"	W 103° 39' 47.89"
	3000.00	15.00	257.18	2952.84	-87.95	-89.15	-391.91	0.00	377758.86	707600.11	N 32° 2' 12.49"	W 103° 39' 48.18"
	3100.00	15.00	257.18	3049.43	-93.65	-94.89	-417.15	0.00	377753.12	707574.87	N 32° 2' 12.44"	W 103° 39' 48.47"
	3200.00	15.00	257.18	3146.02	-99.32	-100.63	-442.38	0.00	377747.37	707549.63	N 32° 2' 12.38"	W 103° 39' 48.77"
	3300.00	15.00	257.18	3242.61	-104.98	-106.37	-467.62	0.00	377741.63	707524.40	N 32° 2' 12.33"	W 103° 39' 49.06"
	3400.00	15.00	257.18	3339.21	-110.65	-112.11	-492.86	0.00	377735.89	707499.16	N 32° 2' 12.27"	W 103° 39' 49.35"
	3500.00	15.00	257.18	3435.80	-116.31	-117.85	-518.10	0.00	377730.15	707473.92	N 32° 2' 12.22"	W 103° 39' 49.65"
	3600.00	15.00	257.18	3532.39	-121.98	-123.59	-543.34	0.00	377724.41	707448.69	N 32° 2' 12.16"	W 103° 39' 49.94"
	3700.00	15.00	257.18	3628.98	-127.65	-129.33	-568.57	0.00	377718.67	707423.45	N 32° 2' 12.11"	W 103° 39' 50.23"
	3800.00	15.00	257.18	3725.58	-133.31	-135.07	-593.81	0.00	377712.93	707398.21	N 32° 2' 12.05"	W 103° 39' 50.53"
	3900.00	15.00	257.18	3822.17	-138.98	-140.82	-619.05	0.00	377707.19	707372.98	N 32° 2' 12.00"	W 103° 39' 50.82"
	4000.00	15.00	257.18	3918.76	-144.64	-146.56	-644.29	0.00	377701.45	707347.74	N 32° 2' 11.94"	W 103° 39' 51.11"
	4100.00	15.00	257.18	4015.35	-150.31	-152.30	-669.52	0.00	377695.71	707322.50	N 32° 2' 11.89"	W 103° 39' 51.41"
	4200.00	15.00	257.18	4111.95	-155.98	-158.04	-694.76	0.00	377689.97	707297.27	N 32° 2' 11.83"	W 103° 39' 51.70"
	4300.00	15.00	257.18	4208.54	-161.64	-163.78	-720.00	0.00	377684.23	707272.03	N 32° 2' 11.78"	W 103° 39' 52.00"
	4400.00	15.00	257.18	4305.13	-167.31	-169.52	-745.24	0.00	377678.49	707246.79	N 32° 2' 11.72"	W 103° 39' 52.29"
	4500.00	15.00	257.18	4401.72	-172.97	-175.26	-770.48	0.00	377672.75	707221.56	N 32° 2' 11.66"	W 103° 39' 52.58"
Lamar	4571.00	15.00	257.18	4470.30	-177.00	-179.34	-788.39	0.00	377668.67	707203.64	N 32° 2' 11.63"	W 103° 39' 52.79"
9 5/8" Casing	4586.22	15.00	257.18	4485.00	-177.88	-180.21	-792.23	0.00	377667.80	707199.80	N 32° 2' 11.62"	W 103° 39' 52.84"
	4600.00	15.00	257.18	4498.31	-178.64	-181.00	-795.71	0.00	377667.01	707196.32	N 32° 2' 11.61"	W 103° 39' 52.88"
Bell Canyon	4620.10	15.00	257.18	4517.73	-179.78	-182.16	-800.79	0.00	377665.85	707191.25	N 32° 2' 11.60"	W 103° 39' 52.94"
	4700.00	15.00	257.18	4594.91	-184.31	-186.74	-820.95	0.00	377661.27	707171.08	N 32° 2' 11.55"	W 103° 39' 53.17"
	4800.00	15.00	257.18	4691.50	-189.97	-192.48	-846.19	0.00	377655.52	707145.85	N 32° 2' 11.50"	W 103° 39' 53.46"
	4900.00	15.00	257.18	4788.09	-195.64	-198.22	-871.43	0.00	377649.78	707120.61	N 32° 2' 11.44"	W 103° 39' 53.76"
	5000.00	15.00	257.18	4884.68	-201.30	-203.97	-896.67	0.00	377644.04	707095.37	N 32° 2' 11.39"	W 103° 39' 54.05"
	5100.00	15.00	257.18	4981.28	-206.97	-209.71	-921.90	0.00	377638.30	707070.14	N 32° 2' 11.33"	W 103° 39' 54.34"
	5200.00	15.00	257.18	5077.87	-212.64	-215.45	-947.14	0.00	377632.56	707044.90	N 32° 2' 11.28"	W 103° 39' 54.64"
	5300.00	15.00	257.18	5174.46	-218.30	-221.19	-972.38	0.00	377626.82	707019.66	N 32° 2' 11.22"	W 103° 39' 54.93"
	5400.00	15.00	257.18	5271.05	-223.97	-226.93	-997.62	0.00	377621.08	706994.43	N 32° 2' 11.17"	W 103° 39' 55.23"
	5500.00	15.00	257.18	5367.65	-229.63	-232.67	-1022.85	0.00	377615.34	706969.19	N 32° 2' 11.11"	W 103° 39' 55.52"
Cherry Canyon	5589.45	15.00	257.18	5454.05	-234.70	-237.81	-1045.43	0.00	377610.21	706946.82	N 32° 2' 11.06"	W 103° 39' 55.78"
	5600.00	15.00	257.18	5484.24	-235.30	-238.41	-1048.09	0.00	377609.60	706943.95	N 32° 2' 11.06"	W 103° 39' 55.81"
	5700.00	15.00	257.18	5560.83	-240.97	-244.15	-1073.33	0.00	377603.86	706918.72	N 32° 2' 11.00"	W 103° 39' 56.11"
	5800.00	15.00	257.18	5657.42	-246.63	-249.89	-1098.57	0.00	377598.12	706893.48	N 32° 2' 10.95"	W 103° 39' 56.40"
	5900.00	15.00	257.18	5754.02	-252.30	-255.63	-1123.81	0.00				

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	7600.00	15.00	257.18	7396.09	-348.62	-353.23	-1552.85	0.00	377449.79	706439.22	N 32 2 9.95 W 103 40 1.68	
	7700.00	15.00	257.18	7492.88	-354.29	-358.97	-1578.09	0.00	377489.05	706413.98	N 32 2 9.90 W 103 40 1.98	
	7800.00	15.00	257.18	7589.27	-359.85	-364.71	-1603.32	0.00	377483.31	706388.75	N 32 2 9.84 W 103 40 2.27	
	7900.00	15.00	257.18	7685.86	-365.62	-370.45	-1628.56	0.00	377477.57	706363.51	N 32 2 9.79 W 103 40 2.56	
	8000.00	15.00	257.18	7782.46	-371.28	-376.19	-1653.80	0.00	377471.82	706338.27	N 32 2 9.73 W 103 40 2.86	
	8100.00	15.00	257.18	7879.05	-376.95	-381.93	-1679.04	0.00	377466.08	706313.04	N 32 2 9.67 W 103 40 3.15	
	8200.00	15.00	257.18	7975.64	-382.61	-387.67	-1704.28	0.00	377460.34	706287.80	N 32 2 9.62 W 103 40 3.45	
	8300.00	15.00	257.18	8072.23	-388.28	-393.41	-1729.51	0.00	377454.60	706262.56	N 32 2 9.56 W 103 40 3.74	
	8400.00	15.00	257.18	8168.83	-393.95	-399.16	-1754.75	0.00	377448.86	706237.33	N 32 2 9.51 W 103 40 4.03	
	8500.00	15.00	257.18	8265.42	-399.61	-404.80	-1779.99	0.00	377443.12	706212.09	N 32 2 9.45 W 103 40 4.33	
	8600.00	15.00	257.18	8362.01	-405.28	-410.54	-1805.23	0.00	377437.38	706186.85	N 32 2 9.40 W 103 40 4.62	
	8700.00	15.00	257.18	8458.60	-410.94	-416.28	-1830.46	0.00	377431.64	706161.61	N 32 2 9.34 W 103 40 4.91	
	8800.00	15.00	257.18	8555.20	-416.61	-422.12	-1855.70	0.00	377425.90	706136.38	N 32 2 9.29 W 103 40 5.21	
Bone Spring	8870.94	15.00	257.18	8623.72	-420.63	-428.19	-1873.61	0.00	377421.83	706118.48	N 32 2 9.25 W 103 40 5.42	
	8900.00	15.00	257.18	8651.79	-422.28	-427.86	-1880.94	0.00	377420.16	706111.14	N 32 2 9.23 W 103 40 5.50	
Upper Avalon	8952.98	15.00	257.18	8702.97	-425.28	-430.90	-1894.31	0.00	377417.12	706097.77	N 32 2 9.20 W 103 40 5.68	
	9000.00	15.00	257.18	8748.38	-427.94	-433.60	-1906.18	0.00	377414.42	706085.90	N 32 2 9.18 W 103 40 5.79	
	9100.00	15.00	257.18	8844.87	-433.61	-439.34	-1931.42	0.00	377408.68	706060.67	N 32 2 9.12 W 103 40 6.09	
	9200.00	15.00	257.18	8941.57	-439.27	-445.08	-1956.65	0.00	377402.94	706035.43	N 32 2 9.07 W 103 40 6.38	
	9300.00	15.00	257.18	9038.16	-444.94	-450.82	-1981.89	0.00	377397.20	706010.19	N 32 2 9.01 W 103 40 6.67	
	9400.00	15.00	257.18	9134.75	-450.61	-456.56	-2007.13	0.00	377391.46	705984.96	N 32 2 8.96 W 103 40 6.97	
	9500.00	15.00	257.18	9231.34	-456.27	-462.30	-2032.37	0.00	377385.72	705959.72	N 32 2 8.90 W 103 40 7.26	
	9600.00	15.00	257.18	9327.94	-461.94	-468.05	-2057.60	0.00	377379.97	705934.48	N 32 2 8.85 W 103 40 7.56	
	9700.00	15.00	257.18	9424.53	-467.60	-473.79	-2082.84	0.00	377374.23	705909.25	N 32 2 8.79 W 103 40 7.85	
Top Bone Spring 1	9793.15	15.00	257.18	9514.50	-472.88	-479.13	-2106.35	0.00	377368.89	705885.74	N 32 2 8.74 W 103 40 8.12	
	9800.00	15.00	257.18	9521.12	-473.27	-479.53	-2108.08	0.00	377368.89	705884.01	N 32 2 8.74 W 103 40 8.14	
	9900.00	15.00	257.18	9617.71	-478.94	-485.27	-2133.32	0.00	377362.75	705858.77	N 32 2 8.68 W 103 40 8.44	
	10000.00	15.00	257.18	9714.31	-484.60	-491.01	-2158.56	0.00	377357.01	705833.54	N 32 2 8.62 W 103 40 8.73	
	10100.00	15.00	257.18	9810.90	-490.27	-496.75	-2183.79	0.00	377351.27	705808.30	N 32 2 8.57 W 103 40 9.02	
	10200.00	15.00	257.18	9907.49	-495.93	-502.49	-2209.03	0.00	377345.53	705783.06	N 32 2 8.51 W 103 40 9.32	
	10300.00	15.00	257.18	10004.08	-501.60	-508.23	-2234.27	0.00	377339.79	705757.83	N 32 2 8.46 W 103 40 9.61	
	10400.00	15.00	257.18	10100.68	-507.27	-513.97	-2259.51	0.00	377334.05	705732.59	N 32 2 8.40 W 103 40 9.90	
Drop 1.5"/100ft	10440.71	15.00	257.18	10140.00	-509.57	-516.31	-2269.78	0.00	377331.71	705722.32	N 32 2 8.38 W 103 40 10.02	
Top Bone Spring 2	10497.57	14.15	257.18	10195.03	-512.71	-519.48	-2283.73	1.50	377328.54	705708.37	N 32 2 8.35 W 103 40 10.19	
	10500.00	14.11	257.18	10197.38	-512.83	-519.61	-2284.31	1.50	377328.41	705707.79	N 32 2 8.35 W 103 40 10.19	
	10600.00	12.61	257.18	10294.67	-517.89	-524.74	-2306.84	1.50	377323.28	705685.26	N 32 2 8.30 W 103 40 10.45	
	10700.00	11.11	257.18	10392.54	-522.39	-529.30	-2328.88	1.50	377318.72	705665.22	N 32 2 8.26 W 103 40 10.69	
	10800.00	9.61	257.18	10490.90	-526.33	-533.29	-2344.42	1.50	377314.74	705647.68	N 32 2 8.22 W 103 40 10.89	
	10900.00	8.11	257.18	10589.71	-529.70	-536.70	-2359.44	1.50	377311.32	705632.66	N 32 2 8.18 W 103 40 11.07	
	11000.00	6.61	257.18	10688.88	-532.51	-539.85	-2371.93	1.50	377308.48	705620.17	N 32 2 8.16 W 103 40 11.21	
Third Bone Spring 1st Carbonate	11004.17	6.55	257.18	10693.02	-532.61	-539.85	-2372.40	1.50	377308.37	705619.70	N 32 2 8.16 W 103 40 11.22	
7 5/8" Casing	11029.30	6.17	257.18	10716.00	-533.22	-540.27	-2375.11	1.50	377307.75	705616.99	N 32 2 8.15 W 103 40 11.25	
	11100.00	5.11	257.18	10788.35	-534.74	-541.81	-2381.89	1.50	377306.21	705610.21	N 32 2 8.14 W 103 40 11.33	
	11200.00	3.61	257.18	10860.86	-536.41	-543.50	-2389.31	1.50	377304.53	705602.80	N 32 2 8.12 W 103 40 11.41	
	11300.00	2.11	257.18	10933.63	-537.50	-544.60	-2397.92	1.50	377303.42	705597.93	N 32 2 8.11 W 103 40 11.47	
	11400.00	0.61	257.18	11007.00	-538.02	-545.13	-2396.49	1.50	377302.89	705595.62	N 32 2 8.10 W 103 40 11.50	
Hold Vertical	11440.74	0.00	257.18	11128.64	-538.07	-545.18	-2396.70	1.50	377302.84	705595.40	N 32 2 8.10 W 103 40 11.50	
	11500.00	0.00	257.18	11187.90	-538.07	-545.18	-2396.70	0.00	377302.84	705595.40	N 32 2 8.10 W 103 40 11.50	
	11600.00	0.00	257.18	11287.90	-538.07	-545.18	-2396.70	0.00	377302.84	705595.40	N 32 2 8.10 W 103 40 11.50	
Top Bone Spring 3	11668.31	0.00	257.18	11356.21	-538.07	-545.18	-2396.70	0.00	377302.84	705595.40	N 32 2 8.10 W 103 40 11.50	
	11700.00	0.00	257.18	11387.90	-538.07	-545.18	-2396.70	0.00	377302.84	705595.40	N 32 2 8.10 W 103 40 11.50	
KOP, Build 10"/100ft	11712.24	0.00	257.18	11400.14	-538.07	-545.18	-2396.70	0.00	377302.84	705595.40	N 32 2 8.10 W 103 40 11.50	
	11800.00	8.78	359.83	11487.56	-531.36	-538.47	-2396.72	10.00	377309.55	705595.38	N 32 2 8.17 W 103 40 11.50	
	11900.00	18.78	359.83	11584.56	-507.58	-514.69	-2396.79	10.00	377333.33	705595.31	N 32 2 8.40 W 103 40 11.50	
FTP Cross	11954.00	24.18	359.83	11634.79	-487.81	-494.83	-2396.85	10.00	377353.10	705595.28	N 32 2 8.60 W 103 40 11.50	
	12000.00	28.78	359.83	11675.96	-467.31	-474.42	-2396.91	10.00	377373.60	705595.20	N 32 2 8.80 W 103 40 11.50	
	12100.00	38.78	359.83	11758.87	-411.78	-418.80	-2397.07	10.00	377429.12	705595.04	N 32 2 9.35 W 103 40 11.50	
Wolfcamp A	12118.22	40.60	359.83	11772.99	-400.15	-407.27	-2397.10	10.00	377440.75	705595.00	N 32 2 9.47 W 103 40 11.49	
	12200.00	48.78	359.83	11831.09	-342.69	-349.80	-2397.27	10.00	377498.21	705594.83	N 32 2 10.04 W 103 40 11.49	
	12300.00	58.78	359.83	11890.10	-262.12	-269.23	-2397.51	10.00	377578.78	705594.60	N 32 2 10.83 W 103 40 11.49	
Wolfcamp A Trgt 1	12308.23	59.60	359.83	11894.32	-255.05	-262.17	-2397.53	10.00	377585.85	705594.58	N 32 2 10.90 W 103 40 11.49	
	12400.00	68.78	359.83	11934.24	-172.53	-179.64	-2397.77	10.00	377668.37	705594.34	N 32 2 11.72 W 103 40 11.49	
Wolfcamp A Trgt 2	12415.64	70.34	359.83	11939.70	-157.87	-164.88	-2397.81	10.00	377683.03	705594.29	N 32 2 11.87 W 103 40 11.49	
	12500.00	78.78	359.83	11962.14	-76.63	-83.74	-2398.05	10.00	377764.26	705594.06	N 32 2 12.67 W 103 40 11.48	
	12600.00	88.78	359.83	11972.97	22.66	15.54	-2398.34	10.00	377863.54	705593.77	N 32 2 13.65 W 103 40 11.48	
Landing Point	12611.57	89.93	359.83	11973.10	34.22	27.10	-2398.37	10.00	377875.10	705593.73	N 32 2 13.77 W 103 40 11.48	
	12700.00	89.93	359.83	11973.20	122.65	115.54	-2398.63	0.00	377963.53	705593.48	N 32 2 14.64 W 103 40 11.48	
	12800.00	89.93	359.83	11973.32	222.65	215.54	-2398.92	0.00	378063.52	705593.18	N 32 2 15.63 W 103 40 11.47	
	12900.00	89.93	359.83	11973.44	322.65	315.54	-2399.21	0.00	378163.52	705592.89	N 32 2 16.62 W 103 40 11.47	
	13000.00	89.93	359.83	11973.55	422.65	415.54	-2399.50	0.00	378263.52	705592.60	N 32 2 17.61 W 103 40 11.46	
	13100.00	89.93	359.83	11973.67	522.65	515.54	-2399.80	0.00	378363.51	705592.31	N 32 2 18.60 W 103 40 11.46	
	13200.00	89.93	359.83	11973.79	622.65	615.54	-2400.09	0.00	378463.51	705592.02	N 32 2 19.59 W 103 40 11.46	
	13300.00	89.93	359.83	11973.90	722.65	715.53	-2400.38	0.00	378563.50	705591.72	N 32 2 20.58 W 103 40 11.45	
	13400.00	89.93	359.83	11974.02	822.65	815.53	-2400.67	0.00	378663.49	705591.43	N 32 2 21.57 W 103 40 11.45	
	13500.00	89.93	359.83	11974.14	922.65	915.53	-2400.96	0.00	378763.48	705591.14	N 32 2 22.56 W 103 40 11.45	
	13600.00	89.93	359.83	11974.25	1022.65	1015.53	-2401.25	0.00	378863.48	705590.85	N 32 2 23.55 W 103 40 11.44	
	13700.00	89.93										

Comments	MD (ft)	Incl (°)	Azlm Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SD 15 Fed P418 7H - PBHL	17313.69	89.91	359.83	11979.50	4736.34	4729.21	-2412.10	0.00	382577.00	705580.00	N 32 3 0.30 W	103 40 11.30

Survey Type: Def Plan

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

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	31.500	1/100.000	30.000	30.000		B001Mb_MWD+HRGM-Depth Only	SD 15 Fed P418 7H / Chevron SD 15 Fed P418 7H Rev0 kFc 18Jul19
	1	31.500	17313.691	1/100.000	30.000	30.000		B001Mb_MWD+HRGM	SD 15 Fed P418 7H / Chevron SD 15 Fed P418 7H Rev0 kFc

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

Chevron U.S.A. Inc. (CUSA)
SUNDRY ATTACHMENT: SPUDDER RIG

DATA OPERATOR NAME: Chevron U.S.A. Inc.

1. SUMMARY OF REQUEST:

CUSA respectfully requests approval for the following operations for the surface hole in the drill plan:

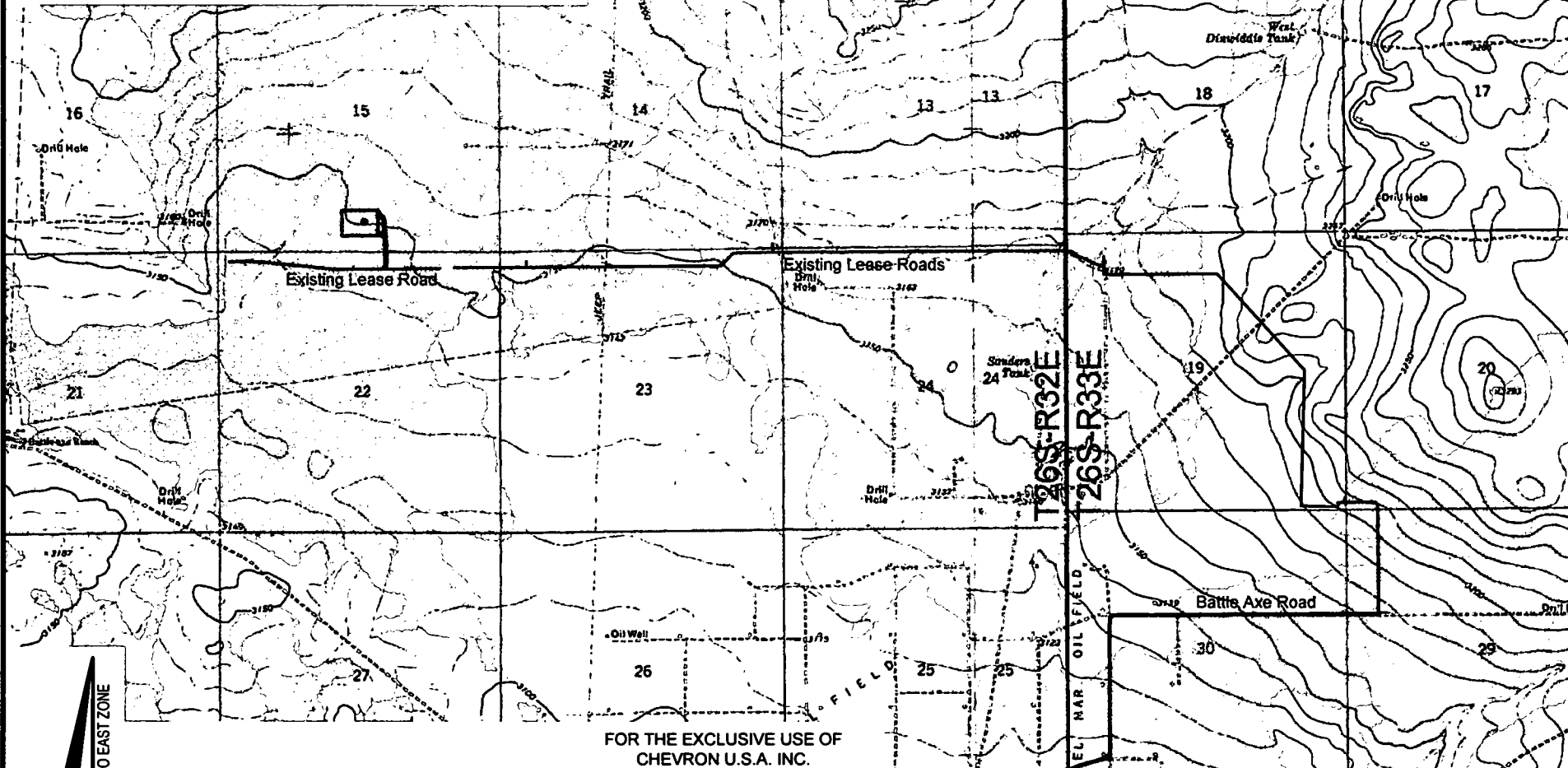
1. Utilize a spudder rig to pre-set surface casing for time and cost savings.

2. Description of Operations

1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
 - a. After drilling the surface hole section, the spudder rig will run casing and cement following all the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
 - b. The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
2. The wellhead will be installed and then tested offline after the WOC time has been reached.
3. An abandonment cap at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on one wing-valve.
 - a. A means for intervention will be maintained while the drilling rig is not over the well.
4. Spudder rig operations are expected to take 2-3 days per well on the pad.
5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
6. Drilling operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nipped up and tested on the wellhead before drilling operations resume on each well.
 - a. The larger rig will move back onto the location within 90 days from the point at which the wells are secured and the spudder rig is moved off location.
 - b. The BLM will be contacted / notified 24 hours before the larger rig moves back on the pre-set locations.
7. CUSA will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
8. Once the rig is removed, CUSA will secure the wellhead area by placing a guard rail around the cellar area.

DIRECTIONS TO LOCATION:

From Hwy 1 (Orla Road), head Easterly on Battle Axe Road approximately 6.80 miles to an existing lease road. Head Northerly then West along existing lease roads approximately 4.67 miles to the access road entrance on the North side of the road.



LEGEND

- Proposed Well
- Proposed Access Road
- Proposed Drillsite
- Existing Road
- Section Line

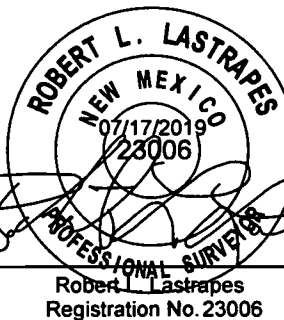
Scale: 1" = 3,000'

3,000' 0 1,500' 3,000'



C. H. Fenstermaker & Associates, L.L.C.
135 Regency Sq. Lafayette, LA 70508
Ph. 337-237-2200 Fax. 337-232-3299
www.fenstermaker.com

FOR THE EXCLUSIVE USE OF
CHEVRON U.S.A. INC.
I, Robert L. Lastrapes, Professional
Surveyor, do hereby state this plat is true
and correct to the best of my knowledge.



ROAD PLAT

CHEVRON U.S.A. INC.
SD WE 15 FED P418 NO. 7H WELL
LOCATED 574' FSL & 2601' FEL
SECTION 15, T26S-R32E
LEA COUNTY, NEW MEXICO

REVISIONS

DRAWN BY:	#	BY:	DATE:	DESCRIPTION:
PROJ. MGR.: VHV				
DATE: 07/09/2019				
FILENAME: T:\2019\2190458\DWG\SD 15 FED P418 7H_Road Plat.dwg				