

Carlsbad Field Office
OCD Artesia
NOV 6 2018

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
DISTRICT II-ARTESIA O.O.D.

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER 1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" 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. NNM107369 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No. HH CE 26 23 FED 001 3H 322 860 9. API Well No. 30-015-45425
2. Name of Operator CHEVRON USA INCORPORATED	3a. Address 6301 Deauville Blvd. Midland TX 79706	3b. Phone No. (include area code) (432)687-7866
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWNW / 245 FNL / 1035 FWL / LAT 32.093072 / LONG -104.1657 At proposed prod. zone NWNW / 280 FNL / 1170 FWL / LAT 32.121959 / LONG -104.165739		10. Field and Pool, or Exploratory 98220 PURPLE-SAGE WOLFCAMP GAS / WOL 11. Sec., T. R. M. or Blk. and Survey or Area SEC 35 / T2S / R27E / NMP
14. Distance in miles and direction from nearest town or post office* 11.5 miles		12. County or Parish EDDY
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 245 feet		16. No of acres in lease 1200
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 3325 feet		17. Spacing Unit dedicated to this well 640 20. BLM/BIA Bond No. in file FED: CA0329
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3186 feet		22. Approximate date work will start* 04/02/2019
23. Estimated duration 147 days		24. Attachments

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

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

25. Signature (Electronic Submission)	Name (Printed/Typed) Laura Becerra / Ph: (432)687-7665	Date 08/13/2018
Title Permitting Specialist		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575)234-5959	Date 11/02/2018
Title Assistant Field Manager Lands & Minerals 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.

APPROVED WITH CONDITIONS

Approval Date: 11/02/2018

RUP 11-9-18

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 collects this information to allow 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: NWNW / 245 FNL / 1035 FWL / TWSP: 25S / RANGE: 27E / SECTION: 35 / LAT: 32.093072 / LONG: -104.1657 (TVD: 0 feet, MD: 0 feet)
PPP: SWSW / 100 FSL / 1170 FWL / TWSP: 25S / RANGE: 27E / SECTION: 26 / LAT: 32.094048 / LONG: -104.165258 (TVD: 0 feet, MD: 0 feet)
BHL: NWNW / 280 FNL / 1170 FWL / TWSP: 25S / RANGE: 27E / SECTION: 23 / LAT: 32.121959 / LONG: -104.165739 (TVD: 9963 feet, MD: 20462 feet)

BLM Point of Contact

Name: Tenille Ortiz

Title: Legal Instruments Examiner

Phone: 5752342224

Email: tortiz@blm.gov

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.:	NMNM107369
WELL NAME & NO.:	HH CE 26 23 FED 001 3H
SURFACE HOLE FOOTAGE:	245'/N & 1053'/W
BOTTOM HOLE FOOTAGE:	280'/N & 1170'/W
LOCATION:	SECTION 35, T25S, R27E, NMPM
COUNTY:	EDDY, NEW MEXICO

COA

H2S	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input type="radio"/> Low	<input type="radio"/> Medium	<input checked="" type="radio"/> High
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Other	<input type="checkbox"/> 4 String Area	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP

A. Hydrogen Sulfide

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

B. CASING OPTION 1

1. The 13-3/8 inch surface casing shall be set at approximately 450 feet (a minimum of 25 feet 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.

Operator shall filled 1/3rd casing with fluid while running intermediate casing to maintain collapse safety factor.

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

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

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. **Additional cement maybe required. Excess calculates 11%.**
 - b. Second stage above DV tool: Cement to surface. If cement does not circulate, contact the appropriate BLM office.
- ❖ In High Cave/Karst Areas if cement does not circulate to surface on the first two casing strings , the cement on the 3rd casing string must come to surface.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - c. Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification. **Additional cement maybe required. Excess calculates 11%.**

OPTION 2

Operator must contact BLM (575-361-2822) before starting contingency plan.

Operator shall filled 1/3rd liner with fluid whiler running intermediate liner to maintain collapse safety factor.

- 1. The minimum required fill of cement behind the 7-5/8 inch production liner is:
 - Cement should tie-back 100' into the previous casing. Operator shall provide method of verification.

Variance is approved for an annular spacing betwee 75/8" x 5 1/2".

- 2. The minimum required fill of cement behind the 5-1/2 x 5 inches production casing is: Cement should tie-back at least 200 feet into previous casing string. 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. 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**.

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)

☒ Chaves and Roosevelt Counties

Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.
During office hours call (575) 627-0272.
After office hours call (575)

☒ 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 (one log per well pad is acceptable) 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. 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.
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. The results of the test shall be reported to the appropriate BLM office.
 - 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. 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.

- f. 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. This test shall be performed prior to the test at full stack pressure.
- g. 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.

Waste Minimization Plan (WMP)

In the interest of resource development, submission of additional well gas capture development plan information is deferred but may be required by the BLM Authorized Officer at a later date.

ZS 102118

**PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	CHEVRON USA INCORPORATED
LEASE NO.:	NMNM107369
WELL NAME & NO.:	HH CE 26 23 FED 001 3H
SURFACE HOLE FOOTAGE:	245'/N & 1053'/W
BOTTOM HOLE FOOTAGE:	280'/N & 1170'/W
LOCATION:	SECTION 35, T25S, R27E, NMPM
COUNTY:	EDDY

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**
 - Cave/Karst
 - Watershed
- ☐ **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

acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Cave and Karst Conditions of Approval for APDs

****** Depending on location, additional Drilling, Casing, and Cementing procedures may be required by engineering to protect critical karst groundwater recharge areas.

Cave/Karst Surface Mitigation

The following stipulations will be applied to minimize impacts during construction, drilling and production:

Construction:

In the advent that any underground voids are opened up during construction activities, construction activities will be halted and the BLM will be notified immediately.

No Blasting:

No blasting will be utilized for pad construction. The pad will be constructed and leveled by adding the necessary fill and caliche.

Pad Berming:

- The entire perimeter of the well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad.
- The compacted berm shall be constructed at a minimum of 12 inches high with impermeable mineral material (e.g., caliche).
- No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad.
- The topsoil stockpile shall be located outside the bermed well pad.
- Topsoil, either from the well pad or surrounding area, shall not be used to construct the berm.
- No storm drains, tubing or openings shall be placed in the berm.
- If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.
- The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed.
- Any access road entering the well pad shall be constructed so that the integrity of the berm height surrounding the well pad is not compromised. (Any access road crossing the berm cannot be lower than the berm height.)
- Following a rain event, all fluids will vacuumed off of the pad and hauled off-site and disposed at a proper disposal facility.

Tank Battery Liners and Berms:

Tank battery locations and all facilities will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing, or equivalent, to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank.

Leak Detection System:

A method of detecting leaks is required. The method could incorporate gauges to measure loss, situating valves and lines so they can be visually inspected, or installing electronic sensors to alarm when a leak is present. Leak detection plan will be submitted to BLM for approval.

Automatic Shut-off Systems:

Automatic shut off, check valves, or similar systems will be installed for pipelines and tanks to minimize the effects of catastrophic line failures used in production or drilling.

Cave/Karst Subsurface Mitigation

The following stipulations will be applied to protect cave/karst and ground water concerns:

Rotary Drilling with Fresh Water:

Fresh water will be used as a circulating medium in zones where caves or karst features are expected. SEE ALSO: Drilling COAs for this well.

Directional Drilling:

Kick off for directional drilling will occur at least 100 feet below the bottom of the cave occurrence zone. SEE ALSO: Drilling COAs for this well.

Lost Circulation:

ALL lost circulation zones from the surface to the base of the cave occurrence zone will be logged and reported in the drilling report.

Regardless of the type of drilling machinery used, if a void of four feet or more and circulation losses greater than 70 percent occur simultaneously while drilling in any cave-bearing zone, the BLM will be notified immediately by the operator. The BLM will assess the situation and work with the operator on corrective actions to resolve the problem.

Abandonment Cementing:

Upon well abandonment in cave karst areas additional plugging conditions of approval may be required. The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

Pressure Testing:

Annual pressure monitoring will be performed by the operator on all casing annuli and reported in a sundry notice. If the test results indicated a casing failure has occurred, remedial action will be undertaken to correct the problem to the BLM's approval.

FLOWLINES (SURFACE):

- Flowlines will be routed around sinkholes and other karst features to avoid or lessen the possibility of encountering near surface voids and to minimize the possibility of leaks and spills from entering karst systems.
- If a void is encountered alignments may be rerouted to avoid the karst feature and lessen; the potential of subsidence or collapse of karst features, buildup of toxic or combustible gas, or other possible impacts to cave and karst resources from the buried pipeline.
- Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

Watershed

The entire well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. The compacted berm shall be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The top soil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control. If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank or 24 hour production, whichever is greater. Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

A leak detection plan will be submitted to the BLM Carlsbad Field Office for approval prior to pipeline installation. The method could incorporate gauges to detect pressure drops, situating valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

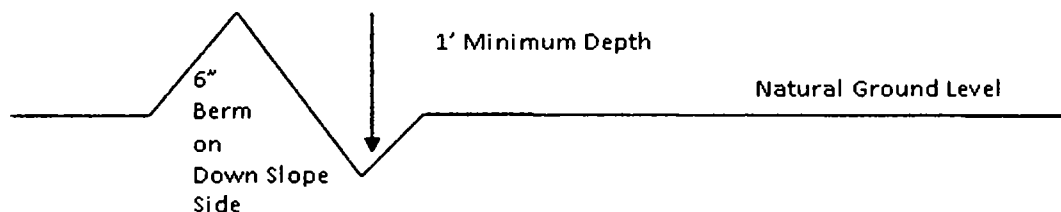
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outslowing and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

$$400 \text{ foot road with } 4\% \text{ road slope: } \frac{400'}{4\%} + 100' = 200' \text{ lead-off ditch interval}$$

Cattle guards

An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the

condition of the existing cattle guards that are in place and are utilized during lease operations.

Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Construction Steps

1. Salvage topsoil
2. Construct road

3. Redistribute topsoil
4. Revegetate slopes

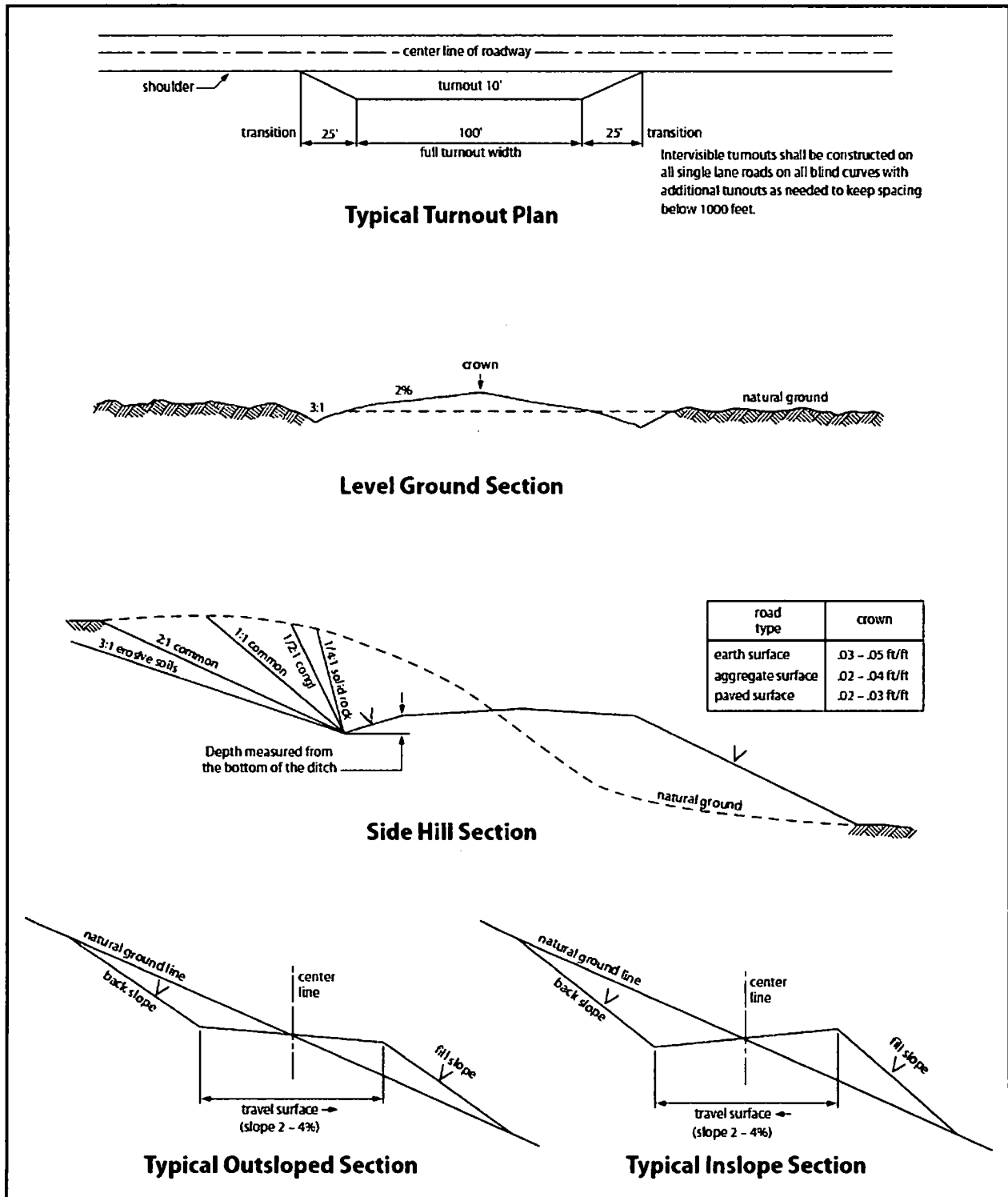


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production

equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, **Shale Green** from the BLM Standard Environmental Color Chart (CC-001: June 2008).

B. PIPELINES

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

A copy of the Grant and attachments, including stipulations, survey plat(s) and/or map(s), shall be on location during construction. BLM personnel may request to review a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
2. Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, Holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC § 2601 *et seq.* (1982) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant (see 40 CFR, Part 702-799 and in particular, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193). Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. Holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms

are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. § 9601, *et seq.* or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, *et seq.*) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way Holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way Holder on the Right-of-Way. This provision applies without regard to whether a release is caused by Holder, its agent, or unrelated third parties.

4. Holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. Holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:

- a. Activities of Holder including, but not limited to: construction, operation, maintenance, and termination of the facility;
- b. Activities of other parties including, but not limited to:
 - (1) Land clearing
 - (2) Earth-disturbing and earth-moving work
 - (3) Blasting
 - (4) Vandalism and sabotage;

c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of Holder, regardless of fault. Upon failure of Holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he/she deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of Holder. Such action by the Authorized Officer shall not relieve Holder of any responsibility as provided herein.

6. All construction and maintenance activity shall be confined to the authorized

right-of-way width of 20 feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline shall be installed no farther than 10 feet from the edge of the road or buried pipeline right-of-way. If existing surface pipelines prevent this distance, the proposed surface pipeline shall be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity shall be confined to existing roads or right-of-ways.

7. No blading or clearing of any vegetation shall be allowed unless approved in writing by the Authorized Officer.

8. Holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky or dune areas, the pipeline shall be "snaked" around hummocks and dunes rather than suspended across these features.

9. The pipeline shall be buried with a minimum of 24 inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.

10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.

13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.

14. The holder shall not use the pipeline route as a road for purposes other than

routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.

15. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the authorized officer. Holder 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 will be made by the authorized officer to determine appropriate cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the holder.

16. 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, powerline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

17. Surface pipelines shall be less than or equal to 4 inches and a working pressure below 125 psi.

STANDARD STIPULATIONS FOR BURIED PIPELINE STIPULATIONS

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the

Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized right-of-way.

6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.

7. The maximum allowable disturbance for construction in this right-of-way will be 30 feet:

- Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed 20 feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation.*)
- Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed 30 feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.)*)

intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.)

- The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)

8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.

9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

<input checked="" type="checkbox"/> (X) seed mixture 1	<input type="checkbox"/> () seed mixture 3
<input type="checkbox"/> () seed mixture 2	<input type="checkbox"/> () seed mixture 4
<input type="checkbox"/> () seed mixture 2/LPC	<input type="checkbox"/> () Aplomado Falcon Mixture

13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2.

14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.

16. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder 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 will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

17. 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 associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

18. Escape Ramps - The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

VIII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

IX. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Seed Mixture 1 for Loamy Sites

Holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed shall be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed shall be either certified or registered seed. The seed container shall be tagged in accordance with State law(s) and available for inspection by the Authorized Officer.

Seed shall be planted using a drill equipped with a depth regulator to ensure proper depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture shall be evenly and uniformly planted over the disturbed area (small/heavier seeds have a tendency to drop the bottom of the drill and are planted first). Holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed shall be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre shall be doubled. The seeding shall be repeated until a satisfactory stand is established as determined by the Authorized Officer. Evaluation of growth may not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Plains lovegrass (<i>Eragrostis intermedia</i>)	0.5
Sand dropseed (<i>Sporobolus cryptandrus</i>)	1.0
Sideoats grama (<i>Bouteloua curtipendula</i>)	5.0
Plains bristlegrass (<i>Setaria macrostachya</i>)	2.0

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed



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

Operator Certification Data Report

11/02/2018

Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: Laura Becerra

Signed on: 08/13/2018

Title: Permitting Specialist

Street Address: 6301 Deauville Blvd., S2211

City: Midland

State: TX

Zip: 79706

Phone: (432)687-7665

Email address: LBecerra@Chevron.com

Field Representative

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:



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

Application Data Report

11/02/2018

APD ID: 10400032977

Submission Date: 08/13/2018

Operator Name: CHEVRON USA INCORPORATED

Well Name: HH CE 26 23 FED 001

Well Number: 3H

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill



[Show Final Text](#)

Section 1 - General

APD ID: 10400032977

Tie to previous NOS?

Submission Date: 08/13/2018

BLM Office: CARLSBAD

User: Laura Becerra

Title: Permitting Specialist

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM107369

Lease Acres: 1200

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? NO

Permitting Agent? NO

APD Operator: CHEVRON USA INCORPORATED

Operator letter of designation:

Operator Info

Operator Organization Name: CHEVRON USA INCORPORATED

Operator Address: 6301 Deauville Blvd.

Zip: 79706

Operator PO Box:

Operator City: Midland

State: TX

Operator Phone: (432)687-7866

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? EXISTING

Master Development Plan name: HAYHURST DEVELOPMENT AREA

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: HH CE 26 23 FED 001

Well Number: 3H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: PURPLE-SAGE
WOLFCAMP GAS

Pool Name: WOLFCAMP,
(GAS)

Operator Name: CHEVRON USA INCORPORATED

Well Name: HH CE 26 23 FED 001

Well Number: 3H

Is the proposed well in an area containing other mineral resources? USEABLE WATER,NATURAL GAS,OIL

Describe other minerals:

Is the proposed well in a Helium production area? N **Use Existing Well Pad?** NO **New surface disturbance?**

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: HH CE Number: 1H, 2H, 3H, 4H
26 23 FED 001

Well Class: HORIZONTAL

Number of Legs: 1

Well Work Type: Drill

Well Type: CONVENTIONAL GAS WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: 11.5 Miles

Distance to nearest well: 3325 FT

Distance to lease line: 245 FT

Reservoir well spacing assigned acres Measurement: 640 Acres

Well plat: HH_CE_26_23_FED_001_3H_C_102_Cert_20180813075917.pdf

Well work start Date: 04/02/2019

Duration: 147 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number:

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
SHL Leg #1	245	FNL	103 5	FWL	25S	27E	35	Aliquot NWN W	32.09307 2	- 104.1657	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 107369	318 6	0	0
KOP Leg #1	245	FNL	103 5	FWL	25S	27E	35	Aliquot NWN W	32.09307 2	- 104.1657	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 107369	318 6	0	0
PPP Leg #1	100	FSL	117 0	FWL	25S	27E	26	Aliquot SWS W	32.09404 8	- 104.1652 58	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 107369	318 6	0	0



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

Drilling Plan Data Report

11/02/2018

APD ID: 10400032977

Submission Date: 08/13/2018

Operator Name: CHEVRON USA INCORPORATED

Highlighted data
reflects the most
recent changes.

Well Name: HH CE 26 23 FED 001

Well Number: 3H

[Show Final Text](#)

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	CASTILE	3186	835	835	ANHYDRITE	NONE	No
2	LAMAR	921	2265	2265	LIMESTONE	NONE	No
3	BELL CANYON	887	2299	2299	SANDSTONE	NONE	No
4	CHERRY CANYON	59	3127	3127	SANDSTONE	NONE	No
5	BRUSHY CANYON	-1107	4293	4293	SANDSTONE	NONE	No
6	AVALON SAND	-2851	6037	6037	LIMESTONE, SHALE	NONE	No
7	BONE SPRING 1ST	-3663	6849	6849	SANDSTONE	NONE	No
8	BONE SPRING 1ST	-3870	7056	7056	SHALE, SANDSTONE	NONE	No
9	BONE SPRING 2ND	-4258	7444	7444	SANDSTONE	NONE	No
10	BONE SPRING 3RD	-5403	8589	8589	SANDSTONE	NONE	No
11	WOLFCAMP	-6777	9963	20462	LIMESTONE, SHALE, SANDSTONE	NATURAL GAS, OIL	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 9963

Equipment: Will have a minimum of 5000 PSI rig stack for drill out below surface casing. The Wolfcamp is not exposed until drill out of the intermediate casing, and the stack will be tested as specified in the attached testing requirements, upon NU and not to exceed 30 days. 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). Chevron requests a variance to use a CoFlex hose with a metal protective covering that will be utilized between the BOP and Choke manifold.

Requesting Variance? YES

Variance request: Chevron requests a variance to use a FMC Technologies UH-S Multibowl wellhead, which will be run through the rig floor on surface casing. BOPE will be 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 Technologies and BOP test information will

Operator Name: CHEVRON USA INCORPORATED

Well Name: HH CE 26 23 FED 001

Well Number: 3H

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.

Testing Procedure: Test BOP from 250 PSI to 5000 psi in Ram and 250 PSI to 3500 PSI in annular. Test BOP from 250 psi to 5000 psi in Ram and 250 psi to 3500 psi in annular. BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. Please refer to the attached testing and specification documents.

Choke Diagram Attachment:

5K_BOPE_and_Choke_Schematic_20180809115546.pdf

BOP Diagram Attachment:

Continental_Test_Specs_and_Pressure_Test_20180809115605.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	450	0	450			450	J-55	54.5	STC	5.09	1.41	DRY	3.56	DRY	3.56
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	9123	0	9123			9123	L-80	43.5	LTC	1.74	1.4	DRY	1.81	DRY	1.81
3	PRODUCTION	8.5	5.5	NEW	API	N	0	20462	0	20462			20462	P-110	20	OTHER - TXP	1.53	1.11	DRY	2.35	DRY	2.35

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

13_3_8_casing_spec_sheet_20180809130644.pdf

Operator Name: CHEVRON USA INCORPORATED

Well Name: HH CE 26 23 FED 001

Well Number: 3H

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

9.625_L80IC_20180809121405.pdf

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

5.5_Tenaris_20180809121418.pdf

HH_CE_26_23_Fed_001_3H_9Pt_Drilling_Plan_v1_20180813092238.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	0	0	0	0	0		NONE	NONE
SURFACE	Tail		0	450	488	1.34	14.8	117	50	CLASS C	NONE
INTERMEDIATE	Lead	2097	0	1597	276	2.56	11.9	126	50	CLASS C	NONE
INTERMEDIATE	Tail		1597	2097	118	1.33	14.8	28	0	CLASS C	NONE

Operator Name: CHEVRON USA INCORPORATED

Well Name: HH CE 26 23 FED 001

Well Number: 3H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Lead		2097	8123	810	2.56	11.9	370	10	CLASS C	NONE
INTERMEDIATE	Tail		8123	9123	287	1.33	14.8	68	10	CLASS C	NONE
PRODUCTION	Lead		8823	1946 2	1914	1.4	14.5	478	10	CLASS C	NONE
PRODUCTION	Tail		1946 2	2046 2	120	2.19	15	47	10	CLASS H	NONE

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

Describe what will be on location to control well or mitigate other conditions: A closed system will be 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 NMOCD regulations.

Describe the mud monitoring system utilized: A mud test shall be performed every 24 hours after muddling 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 PVT, stroke counter, flow sensor will be used to detect volume changes indicating loss or gain of circulating fluid volume in compliance with Onshore Order #2. A weighting agent and lost circulating material (LCM) will be onsite to mitigate pressure or lost circulation as hole conditions dictate.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	450	SPUD MUD	8.3	8.9							
450	9123	OIL-BASED MUD	8.7	9.6							

Operator Name: CHEVRON USA INCORPORATED

Well Name: HH CE 26 23 FED 001

Well Number: 3H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
9123	2046 2	OIL-BASED MUD	9	13.6							

Section 6 - Test, Logging, Coring

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

Drill stem tests are not planned

The logging program will be as follows:

Type: Mudlogs Logs: 2 man mudlog Interval: Int csg to TD Timing: Drillout of Int Csg Vendor: TBD

Type: LWD Logs: MWD gamma Interval: Int. and Prod. Hole Timing: while drilling Vendor: TBD

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

GR,MWD,MUDLOG

Coring operation description for the well:

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

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7046

Anticipated Surface Pressure: 4854.13

Anticipated Bottom Hole Temperature(F): 150

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

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

HH_CE_26_23_FED_001_H2S_Contingency_Plan_20180809131321.pdf

Operator Name: CHEVRON USA INCORPORATED

Well Name: HH CE 26 23 FED 001

Well Number: 3H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Well_Pad_Layout_20180809131359.pdf

HH_CE_26_23_FED_001_3H_Well_Plot_20180813093034.pdf

HH_CE_26_23_FED_001_3H_Directional_Plan_20180813093045.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Other Variance attachment:

BLOWOUT PREVENTOR SCHEMATIC

Minimum Requirements

OPERATION : Intermediate and Production Hole Sections

Minimum System

Pressure Rating : 5,000 psi

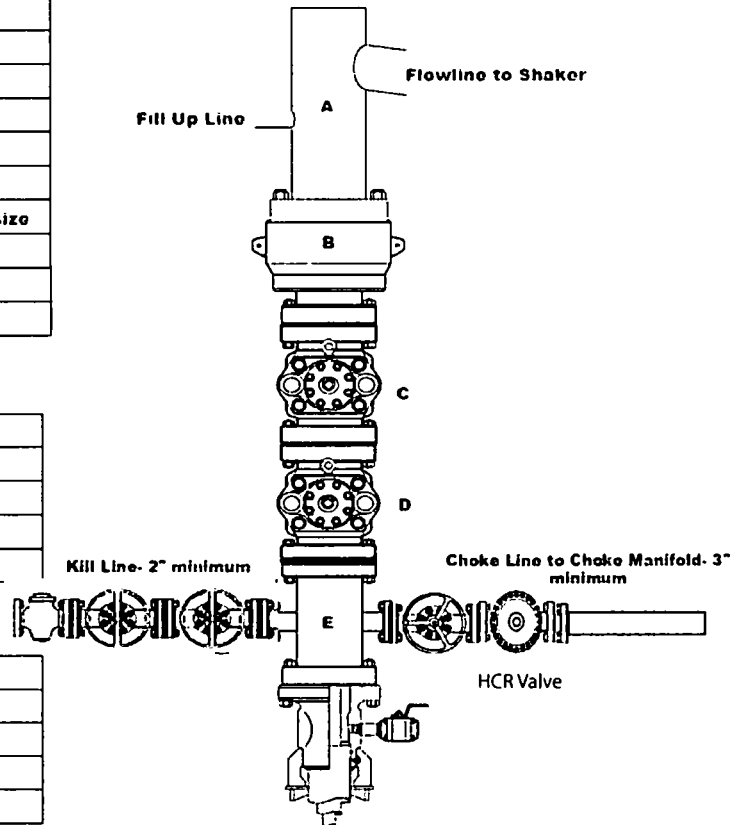
SIZE	PRESSURE	DESCRIPTION
A	N/A	Bell Nipple
B	13 5/8" 5,000 psi	Annular
C	13 5/8" 5,000 psi	Pipe Ram
D	13 5/8" 5,000 psi	Blind Ram
E	13 5/8" 5,000 psi	Mud Cross
F		
DSA	As required for each hole size	
C-Sec		
B-Sec	13-5/8" 5K x 11" 5K	
A-Sec	13-3/8" SOW x 13-5/8" 5K	

Kill Line

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

Choke Line

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



Installation Checklist

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

- ☐ The installed BOP equipment meets at least the minimum requirements (rating, type, size, configuration) as shown on this schematic. Components may be substituted for equivalent equipment rated to higher pressures. Additional components may be put into place as long as they meet or exceed the minimum pressure rating of the system.
- ☐ All valves on the kill line and choke line will be full opening and will allow straight through flow.
- ☐ The kill line and choke line will be straight unless turns use too blocks or are targeted with running tool, and will be anchored to prevent whip and reduce vibration.
- ☐ Manual (hand wheels) or automatic locking devices will be installed on all ram preventers. Hand wheels will also be installed on all manual valves on the choke line and kill line.
- ☐ A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve will remain open unless accumulator is inoperative.
- ☐ Upper kelly cock valve with handle will be available on rig floor along with safety valve and subs to fit all drill string connections in use.

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

Wellname: _____

Representative: _____

Date: _____

CHOKE MANIFOLD SCHEMATIC

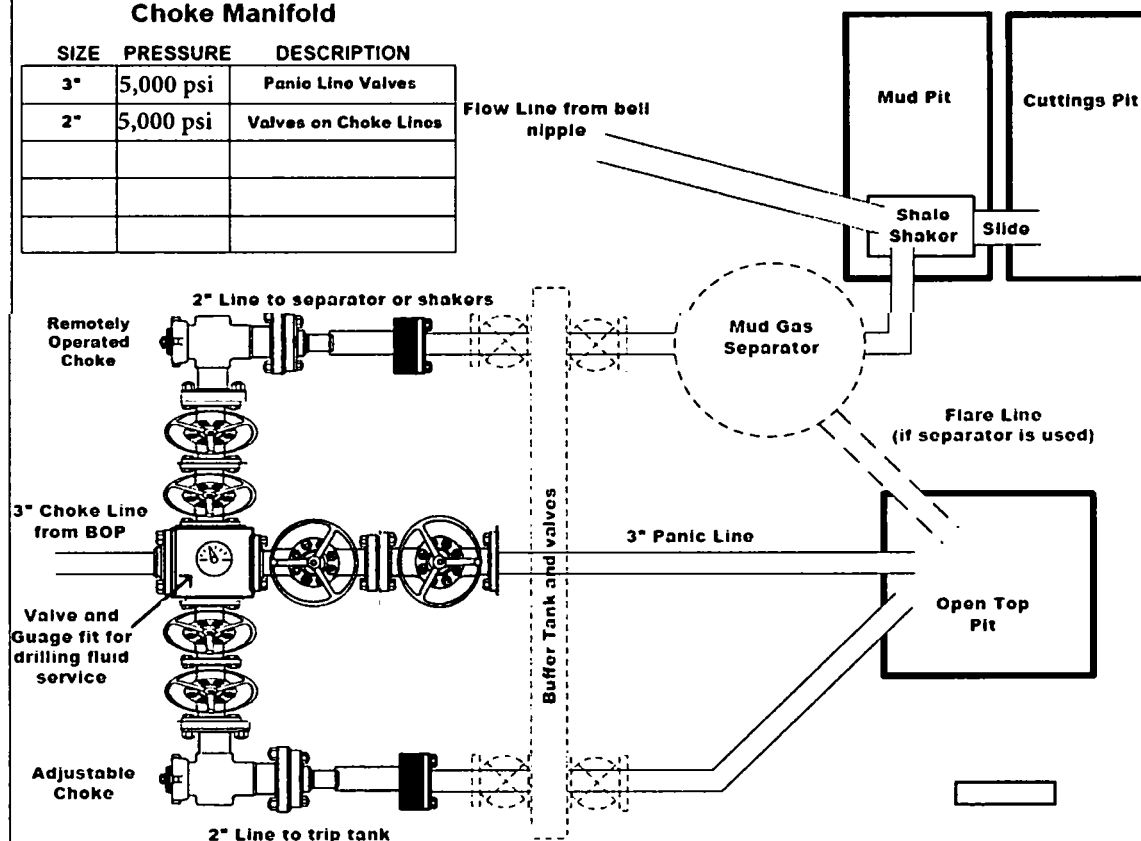
Minimum Requirements

OPERATION : Intermediate and Production Hole Sections

Minimum System Pressure Rating : 5,000 psi

Choke Manifold

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



Installation Checklist

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

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

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

Wellname: _____

Representative: _____

Date: _____

Chevron BOPE Testing – 5K and 10K Systems

Minimum Requirements

Closing Unit and Accumulator Checklist

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

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

Check one that applies	Accumulator working pressure rating	Minimum acceptable operating pressure	Desired precharge pressure	Maximum acceptable precharge pressure	Minimum acceptable precharge pressure
<input type="checkbox"/>	1500 psi	1500 psi	750 psi	800 psi	700 psi
<input type="checkbox"/>	2000 psi	2000 psi	1000 psi	1100 psi	900 psi
<input type="checkbox"/>	3000 psi	3000 psi	1000 psi	1100 psi	900 psi

- ☐ Accumulator will have sufficient capacity to open the hydraulically-controlled choke line valve (if used), close all rams, close the annular preventer, and retain a minimum of 200 psi above the maximum acceptable precharge pressure (see table above) on the closing manifold without the use of the closing pumps. This test will be performed with test pressure recorded and kept on location through the end of the well
- ☐ Accumulator fluid reservoir will be double the usable fluid volume of the accumulator system capacity. Fluid level will be maintained at manufacturer's recommendations. Usable fluid volume will be recorded. Reservoir capacity will be recorded. Reservoir fluid level will be recorded along with manufacturer's recommendation. All will be kept on location through the end of the well.
- ☐ Closing unit system will have two independent power sources (not counting accumulator bottles) to close the preventers.
- ☐ Power for the closing unit pumps will be available to the unit at all times so that the pumps will automatically start when the closing valve manifold pressure decreases to the pre-set level. It is recommended to check that air line to accumulator pump is "ON" during each tour change.
- ☐ With accumulator bottles isolated, closing unit will be capable of opening the hydraulically-operated choke line valve (if used) plus close the annular preventer on the smallest size drill pipe within 2 minutes and obtain a minimum of 200 psi above maximum acceptable precharge pressure (see table above) on the closing manifold. Test pressure and closing time will be recorded and kept on location through the end of the well.
- ☐ Master controls for the BOPE system will be located at the accumulator and will be capable of opening and closing all preventer and the choke line valve (if used)
- ☐ Remote controls for the BOPE system will be readily accessible (clear path) to the driller and located on the rig floor (not in the dog house). Remote controls will be capable of closing all preventers.
- ☐ Record accumulator tests in drilling reports and IADC sheet

BOPE 5K Test Checklist

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

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

The following items must be performed during the BOPE testing:

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

BOPE 10K (with 5K annular) Test Checklist

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

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

The following items must be performed during the BOPE testing:

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



CONTITECH RUBBER Industrial Kft.	No: QC-DB- 617 / 2015 Page: 8 / 71 ContiTech
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Hose Data Sheet

CRI Order No.	541802
Customer	ContiTech Oil & Marine Corp.
Customer Order No	4500606483 COM757207
Item No	1
Hose Type	Flexible Hose
Standard	API SPEC 16 C → FSL2
Inside dia in inches	3
Length	45 ft
Type of coupling one end	FLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155ST/ST INLAID R.GR. SOUR
Type of coupling other end	FLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W BX155 ST/ST INLAID R.GR. SOUR
H2S service NACE MR0175	Yes
Working Pressure	10 000 psi
Design Pressure	10 000 psi
Test Pressure	15 000 psi
Safety Factor	2.25
Marking	USUAL PHOENIX
Cover	NOT FIRE RESISTANT
Outside protection	St steel outer wrap
Internal stripwound tube	No
Lining	OIL + GAS RESISTANT SOUR
Safety clamp	Yes
Lifting collar	Yes
Element C	Yes
Safety chain	No
Safety wire rope	Yes
Max. design temperature [°C]	100
Min. design temperature [°C]	-20
Min. Bend Radius operating [m]	0.90
Min. Bend Radius storage [m]	0.90
Electrical continuity	The Hose is electrically continuous
Type of packing	WOODEN CRATE ISPM-15

ATTACHMENT OF QUALITY CONTROL
INSPECTION AND TEST CERTIFICATE
No: 1609.1610

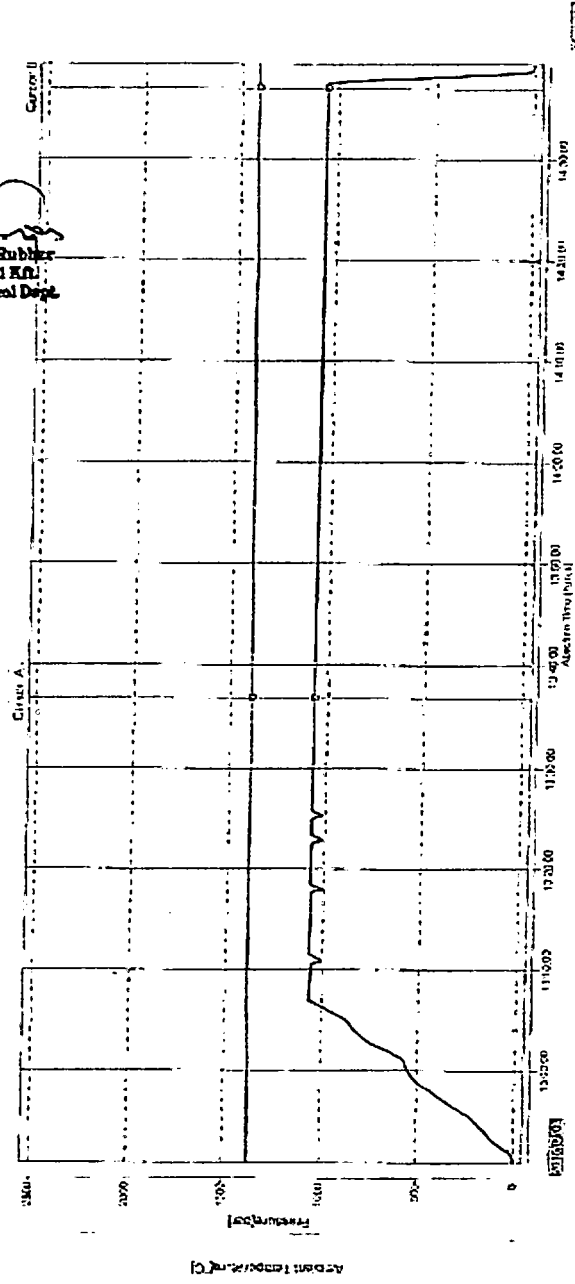
CONTITECH RUBBER Industrial Kft.	No: QC-DB- 617 / 2015 Page: 7 / 71
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File Name : DB177_1103.71304.GEV.....003187_1103.71304.GEV
File Name : 71303_71304
Device Type : GX10
Serial No. : SJP003300
Data Count : 1004
Print Group : Press-Temp
Print Range : 20150203 12:50:50.000 - 20150803 14:38:25.000
Comment :

Sampling Int. : 5.000 sec
Start Time : 20150203 12:50:50.000
Stop Time : 20150203 14:38:25.000

Data No.	Curve A	Curve B	Offset
Acquire Time	20150203 12:50:50.000	20150203 12:50:50.000	01:00:00.000
File Count	Value A	Value B	Value B-A
Pressure [Pa]	Value A	Value B	Value B-A
Airflow Temperature [°C]	Value A	Value B	Value B-A

ContiTech Rubber
Industrial Kft.
Quality Control Dept.
(2)



Casing and Tubing Performance Data

PIPE BODY DATA

GEOMETRY

Outside Diameter	13.375 in	Wall Thickness	0.380 in	API Drift Diameter	12.459 in
Nominal Weight	54.50 lbs/ft	Nominal ID	12.615 in	Alternative Drift Diameter	n.a.
Plain End Weight	52.79 lbs/ft	Nominal cross section	15.513 in		

PERFORMANCE

Steel Grade	J55	Minimum Yield	55,000 psi	Minimum Ultimate	75,000 psi
Tension Yield	853,000 in	Internal Pressure Yield	2,730 psi	Collapse Pressure	1,130 psi
Available Seamless	Yes	Available Welded	Yes		

CONNECTION DATA

TYPE: STC

GEOMETRY

Coupling Reg OD	14.375 in	Threads per in	8	Thread turns make up	3.5
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PERFORMANCE

Steel Grade	J55	Coupling Min Yield	55,000 psi	Coupling Min Ultimate	75,000 psi
Joint Strength	514,000 lbs			Internal Pressure Resistance	2,730 psi

9 5/8" 43.50 ppf L80 IC - LTC
(USC Units)

PIPE BODY DATA					
GEOMETRY					
Nominal OD	9.625 in.	Nominal Weight	43.50 lbs/ft	Standard Drift Diameter	8.599 in.
Nominal ID	8.755 in.	Wall Thickness	0.435 in.	Special Drift Diameter	8.625 in.
Plain End Weight	42.73 lbs/ft				
PERFORMANCE					
Body Yield Strength	1005 x 1000 lbs	Internal Yield	6330 psi	Collapse	4830 psi
CONNECTION DATA					
GEOMETRY					
Coupling Regular OD	10.625 in.	Threads per inch	8	Hand-Tight Standoff Thread Turns	3.5
PERFORMANCE ⁽¹⁾					
Joint Strength	813 x 1000 lbs.	Internal Pressure Resistance	6330 psi		

(1) Non API size/grade combination for LTC.

Performance calculated according to API Standards 5CT and 5B and API Technical Report 5C3.

Joint Strength as per API TR 5C3 1st Edition/ISO 10400:2007 - Section 9

Internal Pressure Resistance as per API TR 5C3 1st Edition/ISO 10400:2007 - Section 10

For the latest performance data, always visit our website: www.tenaris.com

July 07 2015



Connection: TenarisXP™ BTC
Casing/Tubing: CAS
Coupling Option: REGULAR

Size: 5.500 in.
Wall: 0.361 in.
Weight: 20.00 lbs/ft
Grade: P110
Min. Wall Thickness: 87.5 %

PIPE BODY DATA			
GEOMETRY			
Nominal OD	5.500 in.	Nominal Weight	20.00 lbs/ft
Nominal ID	4.778 in.	Wall Thickness	0.361 in.
Plain End Weight	19.83 lbs/ft	Standard Drift Diameter	4.653 in.
		Special Drift Diameter	N/A
PERFORMANCE			
Body Yield Strength	641 x 1000 lbs	Internal Yield	12630 psi
Collapse	11100 psi	SMYS	110000 psi
TENARISXP™ BTC CONNECTION DATA			
GEOMETRY			
Connection OD	6.100 in.	Coupling Length	9.450 in.
Critical Section Area	5.828 sq. in.	Threads per in.	5.00
		Connection ID	4.766 in.
		Make-Up Loss	4.204 in.
PERFORMANCE			
Tension Efficiency	100 %	Joint Yield Strength	641 x 1000 lbs
Structural Compression Efficiency	100 %	Structural Compression Strength	641 x 1000 lbs
External Pressure Capacity	11100 psi	Internal Pressure Capacity ⁽¹⁾	12630 psi
		Structural Bending ⁽²⁾	92 °/100 ft
ESTIMATED MAKE-UP TORQUES ⁽³⁾			
Minimum	11270 ft-lbs	Optimum	12520 ft-lbs
		Maximum	13770 ft-lbs
OPERATIONAL LIMIT TORQUES			
Operating Torque	21500 ft-lbs	Yield Torque	23900 ft-lbs

BLANKING DIMENSIONS

Blanking Dimensions

- (1) Internal Pressure Capacity related to structural resistance only. Internal pressure leak resistance as per section 10.3 API 5C3 / ISO 10400 - 2007.
- (2) Structural rating, pure bending to yield (i.e no other loads applied)
- (3) Torque values calculated for API Modified thread compounds with Friction Factor=1. For other thread compounds please contact us at licensees@oilfield.tenaris.com. Torque values may be further reviewed.
- For additional information, please contact us at contact-tenarishydril@tenaris.com

1. FORMATION TOPS

The estimated tops of important geologic markers are as follows:

FORMATION	SUB-SEA TVD	KBTVD	MD
Castile		835	
Lamar		2,265	
Bell Canyon		2,299	
Cherry Canyon		3,127	
Brushy Canyon		4,293	
Avalon		6,037	
First Bone Spring		6,849	
First Bone Spring Shale		7,056	
Second Bone Spring		7,444	
Third Bone Spring		8,589	
Wolfcamp A		9,023	
Wolfcamp C		9,838	
Wolfcamp C Target		9,963	20462
Wolfcamp D		10,001	

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		450
Water	Castile	835
Water	Cherry Canyon	3,127
Oil/Gas	Brushy Canyon	4,293
Oil/Gas	Avalon	6,037
Oil/Gas	First Bone Spring	6,849
Oil/Gas	Second Bone Spring	7,444
Oil/Gas	Third Bone Spring	8,589
Oil/Gas	Wolfcamp A	9,023
Oil/Gas	Wolfcamp C	9,838
Oil/Gas	Wolfcamp D	10,001

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

3. BOP EQUIPMENT

Chevron will have a minimum of a 5,000 psi rig stack (see proposed schematic) for drill out below surface casing. The Wolfcamp is not exposed until drill out of the intermediate casing, and the stack will be tested as specified in the attached testing requirements for 5K Stacks. 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). Chevron requests a variance to use a CoFlex hose with a metal protective covering that will be utilized between the BOP and Choke manifold. Please refer to the attached testing and specification documents. BOP test will be conducted by a third party.

Chevron requests a variance to use a FMC Technologies UH-S Multibowl wellhead, which will be run through the rig floor on surface casing. BOPE will be 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 Technologies and BOP test information will be provided in a subsequent report at the end of the well. Please see the attached wellhead schematic. An installation manual has been placed on file with the BLM office and remains unchanged from previous submittal.

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'	450'	17-1/2"	13-3/8"	54.5 #	J-55	STC	New
Intermediate	0'	9,123'	12-1/4"	9-5/8"	43.5 #	L-80IC	LTC	New
Production	0'	20,462'	8-1/2"	5-1/2"	20.0 #	P-110	TXP BTC	New

An alternative casing design with a contingency string is as follows:

Purpose	From	To	Hole Size	Csg Size	Weight	Grade	Thread	Condition
Surface	0'	450'	17-1/2"	13-3/8"	54.5 #	J-55	STC	New
Intermediate Csg	0'	9,123'	12-1/4"	9-5/8"	43.5 #	L-80IC	LTC	New
Intermediate Liner	8,823'	10,000'	8-1/2"	7-5/8"	29.7 #	P-110	Wedge 513	New
Production	0'	9,306'	6-3/4"	5-1/2"	20.0 #	P-110	TXP BTC	New
	9,306'	20,462'		5"	18.0 #	P-110	Wedge 521	New

For the four string contingency case, Chevron formally requests a variance from the annular spacing requirements for the BLM. Our contingency design includes 7-5/8" liner with 5.5" x 5" production casing. Because the 5.5" casing goes into the 7-5/8" liner, the

- b. spacing requirements will not be met. We request that the additional 300' above the liner top qualify as the required cement tieback interval for the production casing cement job.
- c. Casing design subject to revision based on geologic conditions encountered and actual formation tops.
- ***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.
- e. 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: 450' TVD
Intermediate Casing: 9241' TVD
Intermediate Liner Casing: 10369' TVD
Production Casing: 21,291' MD/10,369' TVD

Casing String	Min SF Burst	Min SF Collapse	Min SF Tension	Min SF Tri-Axial
Surface	1.41	5.09	3.56	1.54
Intermediate	1.40	1.74	1.81	1.49
Production	1.11	1.53	2.35	1.20

For alternate casing design with contingency:

Casing String	Min SF Burst	Min SF Collapse	Min SF Tension	Min SF Tri-Axial
Intermediate Liner	2.16	2.07	2.11	2.51
Production	1.11	1.70	1.71	1.20

The following worst case load cases were considered for calculation of the above Min. Safety Factors:

Burst Design	Surf	Int	Liner	Prod
Pressure Test- Surface, Int, Prod Csg P external: Mud weight above TOC, PP below P internal: Test psi + next section heaviest mud in csg	X	X	X	X
Displace to Gas- Surf Csg P external: Mud weight above TOC, PP below P internal: Dry Gas from Next Csg Point	X			
Gas over mud (60/40) - Int Csg/Liner P external: Mud weight above TOC, PP below P internal: 60% gas over 40% mud from hole TD PP		X	X	
Stimulation (Frac) Pressures- Prod Csg P external: Mud weight above TOC, PP below P internal: Max inj pressure w/ heaviest injected fluid				X
Tubing leak- Prod Csg (packer at KOP) P external: Mud weight above TOC, PP below P internal: Leak just below surf, 8.45 ppg packer fluid				X
Collapse Design	Surf	Int	Liner	Prod
Full Evacuation P external: Mud weight gradient P internal: none	X	X	X	X
Cementing- Surf, Int, Prod Csg P external: Wet cement P internal: displacement fluid - water	X	X	X	X
Tension Design	Surf	Int	Liner	Prod
100k lb overpull	X	X	X	X

Slurry	Type	Top	Bottom	Weight	Yield	%Excess	Sacks	Water	Volume
Surface				(ppg)	(cu ft/sk)	Open Hole		gal/sk	bbls
Tail	Class C	0'	450'	14.8	1.34	50	488	6.40	117
Intermediate Csg - Stage 1									
Lead	Class C	2,097'	8,123'	11.9	2.56	10	810	14.66	370
Tail	Class C	8,123'	9,123'	14.8	1.33	10	287	6.38	68
Intermediate Csg - Stage 2 (DV tool @ +/- 2097')									
Lead	Class C	0'	1,597'	11.9	2.56	50	276	14.66	126
Tail	Class C	1,597'	2,097'	14.8	1.33	0	118	6.38	28
Production									
Lead	Class C	8,823'	19,462'	14.5	1.4	10	1914	6.77	478
Tail	Class H	19,462'	20,462'	15	2.19	10	120	9.54	47

Cementing Program for alternate casing design with contingency string:

*No change to surface and intermediate cement design with implementation of contingency liner.

Slurry	Type	Top	Bottom	Weight	Yield	%Excess	Sacks	Water	Volume
				(ppg)	(cu ft/sk)	Open Hole		gal/sk	bbls
Intermediate Liner									
Tail	Class C	8,823'	10,000'	14.5	1.4	10	91	6.77	23
Production									
Lead	Class C	8,523'	19,462'	14.5	1.4	10	979	6.77	244
Tail	Class H	19,462'	20,462'	15	2.19	10	60	9.54	24

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. No centralizers will be run on the 5.5" csg inside the liner for four string designs.
4. Intermediate casing cement job will be a 2 stage job with DV tool set at the base of Lamar.
5. Chevron requests a variance to qualify the additional 300' of cement above the liner top as the required cement tieback interval with >0.422" clearance for the production csg cmt job in the four string design. See 4.b. above.

From	To	Type	Weight	Viscosity	Filtrate
0'	450'	Spud Mud	8.3 - 8.9	28-30	N/C
450'	9,123'	OBM	8.7 - 9.6	10-20	10-12
9,123'	20,462'	OBM	9-13.6	10-15	15-25

A closed system will be used consisting of above ground steel tanks. All wastes accumulated during drilling operations will be contained in a portable trash cage and removed from location and deposited in an approved sanitary landfill. Sanitary wastes will be contained in a chemical porta-toilet and then hauled to an approved sanitary landfill.

All fluids and cuttings will be disposed of in accordance with New Mexico Oil Conservation Division rules and regulations.

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:

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

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

- Conventional whole core samples are not planned.
- A directional survey will be run.

8. ABNORMAL PRESSURES AND HYDROGEN SULFIDE

- No abnormal pressure or temperatures are expected. Estimated BHP is: psi
- 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

HH CE 26 23 FED 001 1H-4H

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

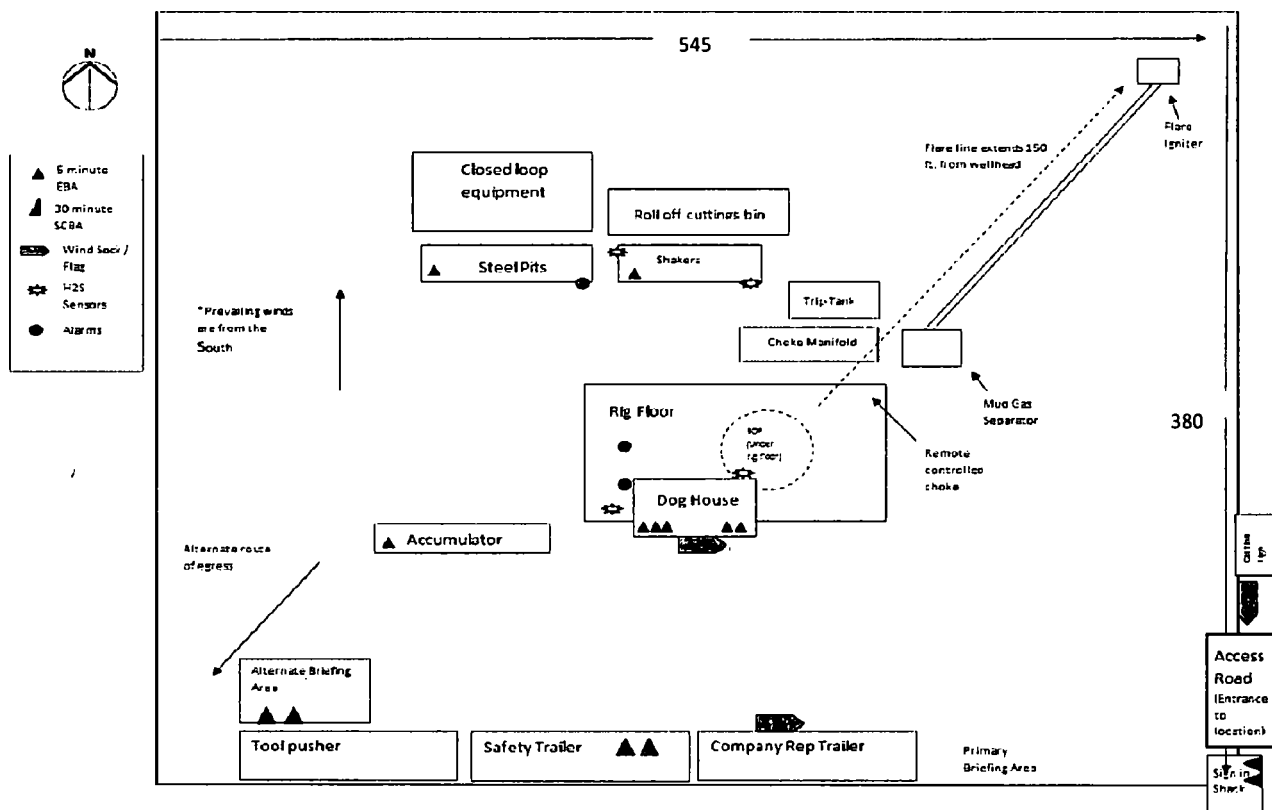
In the event of drilling, completions, workover and well servicing operations involving a hydrogen sulfide concentration of 100 ppm or greater the following shall be considered:

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

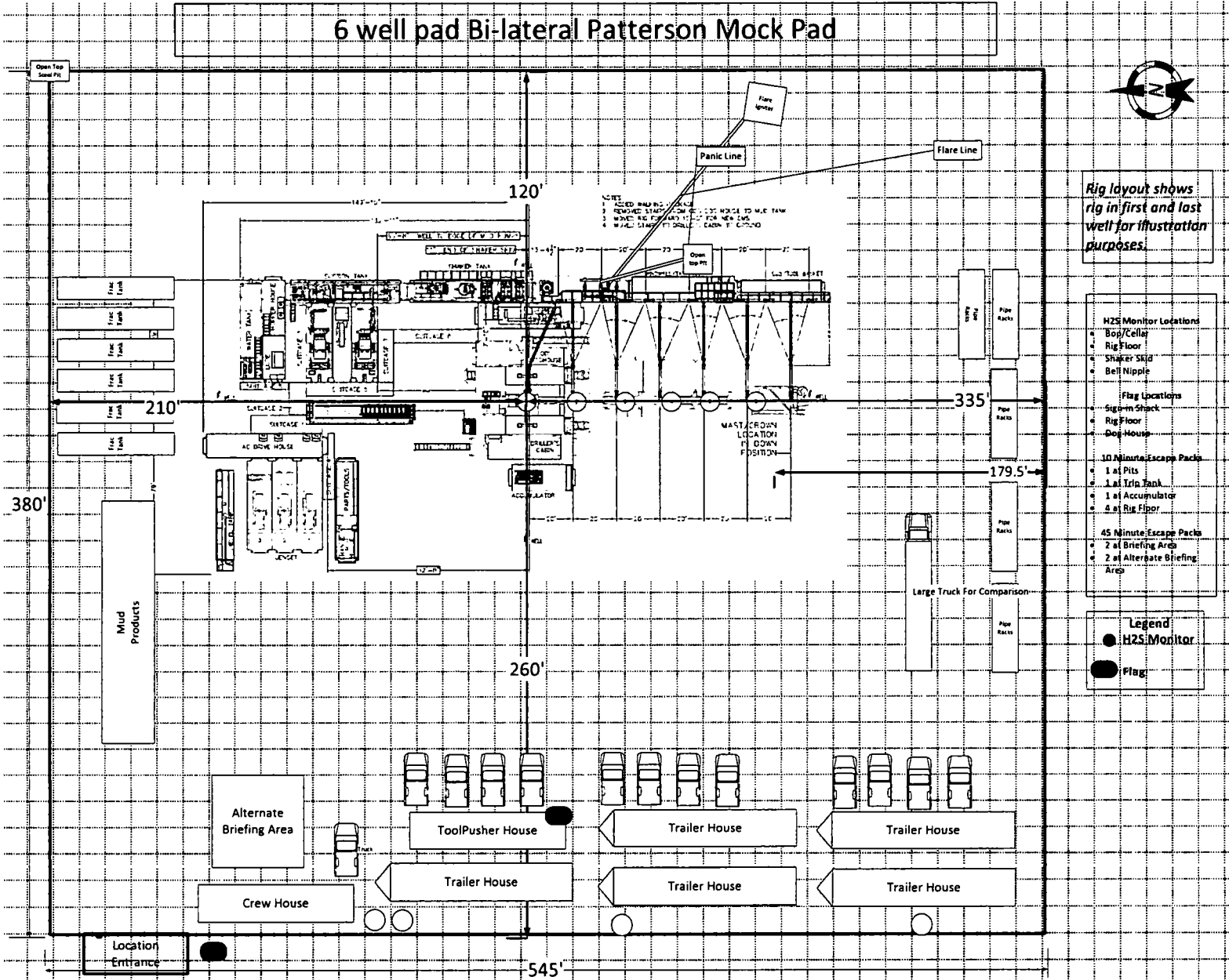
Public Safety - Emergency Assistance

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

H₂S Preparedness and Contingency Plan Summary



6 well pad Bi-lateral Patterson Mock Pad
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[illegible]

Chevron HH CE 26 23 FED 001 3H Rev0 YJ 27Jul18 Proposal Geodetic Report

(Non-Def Plan)



Report Date: August 03, 2018 - 01:01 PM
 Client: Chevron
 Field: NM Eddy County (NAD 27)
 Structure / Slot: Chevron HH CE 26 23 FED 001 3H / HH CE 26 23 FED 001 3H
 Well: HH CE 26 23 FED 001 3H
 Borehole: Original Borehole
 UWI / API#: Unknown / Unknown
 Survey Name: Chevron HH CE 26 23 FED 001 3H Rev0 YJ 27Jul18
 Survey Date: August 01, 2018
 Tort / AHD / DDI / ERD Ratio: 106.880' / 10992.097 ft / 6.383 / 1.103
 Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 5' 34.61654", W 104° 9' 54.75285"
 Location Grid N/E Y/X: N 397579.000 RUS, E 552065.000 RUS
 CRS Grid Convergence Angle: 0.0893 °
 Grid Scale Factor: 0.9999122
 Version / Patch: 2.10.740.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 359.069 ° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB=30'
 TVD Reference Elevation: 3216.000 ft above MSL
 Seabed / Ground Elevation: 3186.000 ft above MSL
 Magnetic Declination: 7.276 °
 Total Gravity Field Strength: 998.4382mgn (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 47904.879 nT
 Magnetic Dip Angle: 59.786 °
 Declination Date: August 01, 2018
 Magnetic Declination Model: HDGM 2018
 North Reference: Grid North
 Grid Convergence Used: 0.0893 °
 Total Corr Mag North->Grid: 7.1864 °
 North: Well Head
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Surface Location	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	397579.00	552065.00	N 32 5 34.62 W 104 9 54.75	
Surface Casing	100.00	0.00	145.30	100.00	0.00	0.00	0.00	0.00	397579.00	552065.00	N 32 5 34.62 W 104 9 54.75	
	200.00	0.00	145.30	200.00	0.00	0.00	0.00	0.00	397579.00	552065.00	N 32 5 34.62 W 104 9 54.75	
	300.00	0.00	145.30	300.00	0.00	0.00	0.00	0.00	397579.00	552065.00	N 32 5 34.62 W 104 9 54.75	
	400.00	0.00	145.30	400.00	0.00	0.00	0.00	0.00	397579.00	552065.00	N 32 5 34.62 W 104 9 54.75	
	450.00	0.00	145.30	450.00	0.00	0.00	0.00	0.00	397579.00	552065.00	N 32 5 34.62 W 104 9 54.75	
	500.00	0.00	145.30	500.00	0.00	0.00	0.00	0.00	397579.00	552065.00	N 32 5 34.62 W 104 9 54.75	
Build 1.5" DLS	600.00	0.00	145.30	600.00	0.00	0.00	0.00	0.00	397579.00	552065.00	N 32 5 34.62 W 104 9 54.75	
	700.00	1.50	145.30	699.99	-1.09	-1.08	0.75	1.50	397577.92	552065.74	N 32 5 34.61 W 104 9 54.74	
	800.00	3.00	145.30	799.91	-4.35	-4.30	2.98	1.50	397574.70	552067.98	N 32 5 34.57 W 104 9 54.72	
	900.00	4.50	145.30	899.69	-9.79	-9.68	6.70	1.50	397569.32	552071.70	N 32 5 34.52 W 104 9 54.68	
	1000.00	6.00	145.30	999.27	-17.40	-17.20	11.91	1.50	397561.80	552076.91	N 32 5 34.45 W 104 9 54.61	
	1100.00	7.50	145.30	1098.57	-27.17	-26.87	18.60	1.50	397552.13	552083.60	N 32 5 34.35 W 104 9 54.54	
Hold Tangent	1137.38	8.06	145.30	1135.61	-31.37	-31.03	21.48	1.50	397547.97	552086.48	N 32 5 34.31 W 104 9 54.50	
	1200.00	8.06	145.30	1197.61	-38.67	-38.25	26.48	0.00	397540.76	552091.48	N 32 5 34.24 W 104 9 54.45	
	1300.00	8.06	145.30	1296.62	-50.33	-49.78	34.46	0.00	397529.23	552099.46	N 32 5 34.12 W 104 9 54.35	
	1400.00	8.06	145.30	1395.63	-61.99	-61.31	42.44	0.00	397517.70	552107.44	N 32 5 34.01 W 104 9 54.26	
	1500.00	8.06	145.30	1494.65	-73.64	-72.83	50.42	0.00	397506.17	552115.42	N 32 5 33.90 W 104 9 54.17	
	1600.00	8.06	145.30	1593.66	-85.30	-84.36	58.41	0.00	397494.64	552123.40	N 32 5 33.78 W 104 9 54.08	
Drop 1.5" DLS	1700.00	8.06	145.30	1692.67	-96.96	-95.89	66.39	0.00	397483.12	552131.38	N 32 5 33.67 W 104 9 53.98	
	1800.00	8.06	145.30	1791.68	-108.62	-107.42	74.37	0.00	397471.59	552139.36	N 32 5 33.55 W 104 9 53.89	
	1900.00	8.06	145.30	1890.69	-120.27	-118.95	82.35	0.00	397460.06	552147.34	N 32 5 33.44 W 104 9 53.80	
	2000.00	8.06	145.30	1989.71	-131.93	-130.48	90.33	0.00	397448.53	552155.32	N 32 5 33.32 W 104 9 53.71	
	2100.00	8.06	145.30	2088.72	-143.59	-142.01	98.31	0.00	397437.00	552163.31	N 32 5 33.21 W 104 9 53.61	
	2200.00	8.06	145.30	2187.73	-155.24	-153.54	106.30	0.00	397425.48	552171.29	N 32 5 33.10 W 104 9 53.52	
	2300.00	8.06	145.30	2286.74	-166.90	-165.07	114.28	0.00	397413.95	552179.27	N 32 5 32.98 W 104 9 53.43	
	2400.00	8.06	145.30	2385.75	-178.56	-176.60	122.26	0.00	397402.42	552187.25	N 32 5 32.87 W 104 9 53.33	
	2479.42	8.06	145.30	2464.39	-187.82	-185.75	128.60	0.00	397393.27	552193.59	N 32 5 32.78 W 104 9 53.26	
	2500.00	7.75	145.30	2484.77	-190.17	-188.08	130.21	1.50	397390.94	552195.20	N 32 5 32.75 W 104 9 53.24	
	2600.00	6.25	145.30	2584.03	-200.30	-198.10	137.15	1.50	397380.92	552202.14	N 32 5 32.65 W 104 9 53.16	
	2700.00	4.75	145.30	2683.56	-208.27	-205.98	142.61	1.50	397373.03	552207.58	N 32 5 32.58 W 104 9 53.10	
Hold Vertical	2800.00	3.25	145.30	2783.32	-214.08	-211.72	146.58	1.50	397367.30	552211.57	N 32 5 32.52 W 104 9 53.05	
	2900.00	1.75	145.30	2883.22	-217.71	-215.31	149.06	1.50	397363.71	552214.05	N 32 5 32.48 W 104 9 53.02	
	3000.00	0.25	145.30	2983.20	-219.16	-216.75	150.06	1.50	397362.27	552215.05	N 32 5 32.47 W 104 9 53.01	
	3016.80	0.00	145.30	3000.00	-219.19	-216.78	150.08	1.50	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	3100.00	0.00	145.30	3083.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	3200.00	0.00	145.30	3183.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	3300.00	0.00	145.30	3283.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	3400.00	0.00	145.30	3383.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	3500.00	0.00	145.30	3483.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	3600.00	0.00	145.30	3583.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	3700.00	0.00	145.30	3683.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	3800.00	0.00	145.30	3783.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	3900.00	0.00	145.30	3883.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	4000.00	0.00	145.30	3983.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	4100.00	0.00	145.30	4083.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	4200.00	0.00	145.30	4183.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	4300.00	0.00	145.30	4283.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	4400.00	0.00	145.30	4383.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	4500.00	0.00	145.30	4483.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	4600.00	0.00	145.30	4583.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	4700.00	0.00	145.30	4683.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	4800.00	0.00	145.30	4783.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	4900.00	0.00	145.30	4883.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	5000.00	0.00	145.30	4983.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	5100.00	0.00	145.30	5083.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	5200.00	0.00	145.30	5183.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	5300.00	0.00	145.30	5283.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	5400.00	0.00	145.30	5383.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	5500.00	0.00	145.30	5483.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	5600.00	0.00	145.30	5583.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	5700.00	0.00	145.30	5683.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	5800.00	0.00	145.30	5783.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	5900.00	0.00	145.30	5883.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	6000.00	0.00	145.30	5983.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	6100.00	0.00	145.30	6083.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	6200.00	0.00	145.30	6183.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	6300.00	0.00	145.30	6283.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	6400.00	0.00	145.30	6383.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	6500.00	0.00	145.30	6483.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
	6600.00	0.00	145.30	6583.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01	
6700.00	0.00	145.30	6683.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01		
6800.00	0.00	145.30	6783.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01		
6900.00	0.00	145.30	6883.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01		
7000.00	0.00	145.30	6983.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01		
7100.00	0.00	145.30	7083.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01		
7200.00	0.00	145.30	7183.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01		
7300.00	0.00	145.30	7283.20	-219.19	-216.78	150.08	0.00	397362.24	552215.07	N 32 5 32.47 W 104 9 53.01		

Comments	MD	Incl	Azim	Theta	VSEC	NS	EW	DLS	Northng	Eastng	Latitude	Longitude
	(m)	(°)	(°)	(°)	(m)	(m)	(m)	(°/100m)	(m/s)	(m/s)	(N/S - °)	(E/W - °)
	7400.00	0.00	145.30	7383.20	-219.19	-216.78	-216.78	150.08	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	7500.00	0.00	145.30	7483.20	-219.19	-216.78	-216.78	150.08	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	7600.00	0.00	145.30	7583.20	-219.19	-216.78	-216.78	150.08	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	7700.00	0.00	145.30	7683.20	-219.19	-216.78	-216.78	150.08	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	7800.00	0.00	145.30	7783.20	-219.19	-216.78	-216.78	150.08	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	7900.00	0.00	145.30	7883.20	-219.19	-216.78	-216.78	150.08	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	8000.00	0.00	145.30	7983.20	-219.19	-216.78	-216.78	150.08	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	8100.00	0.00	145.30	8083.20	-219.19	-216.78	-216.78	150.08	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	8200.00	0.00	145.30	8183.20	-219.19	-216.78	-216.78	150.08	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	8300.00	0.00	145.30	8283.20	-219.19	-216.78	-216.78	150.08	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	8400.00	0.00	145.30	8383.20	-219.19	-216.78	-216.78	150.08	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	8500.00	0.00	145.30	8483.20	-219.19	-216.78	-216.78	150.08	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	8600.00	0.00	145.30	8583.20	-219.19	-216.78	-216.78	150.08	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	8700.00	0.00	145.30	8683.20	-219.19	-216.78	-216.78	150.08	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	8800.00	0.00	145.30	8783.20	-219.19	-216.78	-216.78	150.08	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	8900.00	0.00	145.30	8883.20	-219.19	-216.78	-216.78	150.08	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	9000.00	0.00	145.30	8983.20	-219.19	-216.78	-216.78	150.08	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	9100.00	0.00	145.30	9083.20	-219.19	-216.78	-216.78	150.08	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	9200.00	0.00	145.30	9183.20	-219.19	-216.78	-216.78	150.08	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	9300.00	0.00	145.30	9283.20	-219.19	-216.78	-216.78	150.08	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	9400.00	0.00	145.30	9383.20	-219.19	-216.78	-216.78	150.08	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	9500.00	0.00	145.30	9483.20	-219.19	-216.78	-216.78	150.08	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	9600.00	0.00	145.30	9583.20	-219.19	-216.78	-216.78	150.08	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	9700.00	29.32	145.30	9679.56	-145.82	-143.42	-148.34	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	9800.00	0.00	145.30	9773.06	-89.51	-147.12	147.12	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	9900.00	49.32	145.30	9874.52	-17.74	-17.38	145.53	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	10000.00	59.32	145.30	9882.71	61.38	63.72	143.68	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	10100.00	69.32	145.30	9926.07	151.38	153.70	141.63	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	10200.00	79.32	145.30	9953.87	249.53	249.83	139.44	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	10300.00	89.32	145.30	9982.96	346.91	349.19	137.17	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	10400.00	99.32	145.30	10000.00	444.91	449.16	134.89	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	10500.00	109.32	145.30	10050.00	546.91	549.14	132.61	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	10600.00	119.32	145.30	10100.00	646.91	649.11	130.33	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	10700.00	129.32	145.30	10150.00	746.90	749.08	128.05	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	10800.00	139.32	145.30	10200.00	846.90	849.06	125.77	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	10900.00	149.32	145.30	10250.00	946.90	949.03	123.49	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	11000.00	159.32	145.30	10300.00	1046.90	1049.01	121.21	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	11100.00	169.32	145.30	10350.00	1146.90	1149.08	118.93	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	11200.00	179.32	145.30	10400.00	1246.90	1249.08	116.65	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	11300.00	189.32	145.30	10450.00	1346.90	1349.03	114.37	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	11400.00	199.32	145.30	10500.00	1446.90	1449.08	112.09	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	11500.00	209.32	145.30	10550.00	1546.90	1549.08	109.81	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	11600.00	219.32	145.30	10600.00	1646.90	1649.08	107.53	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	11700.00	229.32	145.30	10650.00	1746.90	1749.08	105.25	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	11800.00	239.32	145.30	10700.00	1846.90	1849.08	102.97	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	11900.00	249.32	145.30	10750.00	1946.90	1949.08	100.69	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	12000.00	259.32	145.30	10800.00	2046.90	2049.08	98.41	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	12100.00	269.32	145.30	10850.00	2146.90	2149.08	96.13	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	12200.00	279.32	145.30	10900.00	2246.90	2249.08	93.85	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	12300.00	289.32	145.30	10950.00	2346.90	2349.08	91.57	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	12400.00	299.32	145.30	11000.00	2446.90	2449.08	89.29	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	12500.00	309.32	145.30	11050.00	2546.90	2549.08	87.01	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	12600.00	319.32	145.30	11100.00	2646.90	2649.08	84.73	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	12700.00	329.32	145.30	11150.00	2746.90	2749.08	82.45	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	12800.00	339.32	145.30	11200.00	2846.90	2849.08	80.17	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	12900.00	349.32	145.30	11250.00	2946.90	2949.08	77.89	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	13000.00	359.32	145.30	11300.00	3046.90	3049.08	75.61	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	13100.00	369.32	145.30	11350.00	3146.90	3149.08	73.33	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	13200.00	379.32	145.30	11400.00	3246.90	3249.08	71.05	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	13300.00	389.32	145.30	11450.00	3346.90	3349.08	68.77	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	13400.00	399.32	145.30	11500.00	3446.90	3449.08	66.49	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	13500.00	409.32	145.30	11550.00	3546.90	3549.08	64.21	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	13600.00	419.32	145.30	11600.00	3646.90	3649.08	61.93	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	13700.00	429.32	145.30	11650.00	3746.90	3749.08	59.65	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	13800.00	439.32	145.30	11700.00	3846.90	3849.08	57.37	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	13900.00	449.32	145.30	11750.00	3946.90	3949.08	55.09	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	14000.00	459.32	145.30	11800.00	4046.90	4049.08	52.81	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	14100.00	469.32	145.30	11850.00	4146.90	4149.08	50.53	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	14200.00	479.32	145.30	11900.00	4246.90	4249.08	48.25	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	14300.00	489.32	145.30	11950.00	4346.90	4349.08	45.97	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	14400.00	499.32	145.30	12000.00	4446.90	4449.08	43.69	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	14500.00	509.32	145.30	12050.00	4546.90	4549.08	41.41	149.91	397362.24	552215.07	N 32° 52.47' W 104° 53.01'	9 53.01
	14600.00	519.32	145.30									

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	17700.00	90.00	359.45	9963.00	7746.75	7747.75	-1.56	0.00	405326.05	552063.44	N 32 6 51.29 W 104	9 54.63
	17800.00	90.00	359.45	9963.00	7846.75	7847.75	-2.52	0.00	405426.04	552062.48	N 32 6 52.28 W 104	9 54.64
	17900.00	90.00	359.45	9963.00	7946.75	7947.74	-3.48	0.00	405526.03	552061.52	N 32 6 53.26 W 104	9 54.65
	18000.00	90.00	359.45	9963.00	8046.75	8047.74	-4.43	0.00	405626.01	552060.57	N 32 6 54.25 W 104	9 54.66
	18100.00	90.00	359.45	9963.00	8146.74	8147.73	-5.39	0.00	405726.00	552059.61	N 32 6 55.24 W 104	9 54.67
	18200.00	90.00	359.45	9963.00	8246.74	8247.73	-6.35	0.00	405825.99	552058.65	N 32 6 56.23 W 104	9 54.68
	18300.00	90.00	359.45	9963.00	8346.74	8347.72	-7.31	0.00	405925.97	552057.70	N 32 6 57.22 W 104	9 54.69
	18400.00	90.00	359.45	9963.00	8446.74	8447.72	-8.26	0.00	406025.96	552056.74	N 32 6 58.21 W 104	9 54.70
	18500.00	90.00	359.45	9963.00	8546.73	8547.71	-9.22	0.00	406125.95	552055.78	N 32 6 59.20 W 104	9 54.71
	18600.00	90.00	359.45	9963.00	8646.73	8647.71	-10.18	0.00	406225.93	552054.82	N 32 7 0.19 W 104	9 54.71
	18700.00	90.00	359.45	9963.00	8746.73	8747.70	-11.13	0.00	406325.92	552053.87	N 32 7 1.18 W 104	9 54.72
	18800.00	90.00	359.45	9963.00	8846.73	8847.70	-12.09	0.00	406425.91	552052.91	N 32 7 2.17 W 104	9 54.73
	18900.00	90.00	359.45	9963.00	8946.73	8947.70	-13.05	0.00	406525.89	552051.95	N 32 7 3.16 W 104	9 54.74
	19000.00	90.00	359.45	9963.00	9046.72	9047.69	-14.01	0.00	406625.88	552051.00	N 32 7 4.15 W 104	9 54.75
	19100.00	90.00	359.45	9963.00	9146.72	9147.69	-14.96	0.00	406725.86	552050.04	N 32 7 5.14 W 104	9 54.76
	19200.00	90.00	359.45	9963.00	9246.72	9247.68	-15.92	0.00	406825.85	552049.08	N 32 7 6.13 W 104	9 54.77
	19300.00	90.00	359.45	9963.00	9346.72	9347.68	-16.88	0.00	406925.84	552048.12	N 32 7 7.12 W 104	9 54.78
	19400.00	90.00	359.45	9963.00	9446.71	9447.67	-17.83	0.00	407025.82	552047.17	N 32 7 8.11 W 104	9 54.79
	19500.00	90.00	359.45	9963.00	9546.71	9547.67	-18.79	0.00	407125.81	552046.21	N 32 7 9.10 W 104	9 54.80
	19600.00	90.00	359.45	9963.00	9646.71	9647.66	-19.75	0.00	407225.80	552045.25	N 32 7 10.09 W 104	9 54.81
	19700.00	90.00	359.45	9963.00	9746.71	9747.66	-20.71	0.00	407325.78	552044.30	N 32 7 11.08 W 104	9 54.82
	19800.00	90.00	359.45	9963.00	9846.71	9847.65	-21.66	0.00	407425.77	552043.34	N 32 7 12.07 W 104	9 54.83
	19900.00	90.00	359.45	9963.00	9946.70	9947.65	-22.62	0.00	407525.76	552042.38	N 32 7 13.06 W 104	9 54.84
	20000.00	90.00	359.45	9963.00	10046.70	10047.64	-23.58	0.00	407625.74	552041.42	N 32 7 14.04 W 104	9 54.84
	20100.00	90.00	359.45	9963.00	10146.70	10147.64	-24.53	0.00	407725.73	552040.47	N 32 7 15.03 W 104	9 54.85
	20200.00	90.00	359.45	9963.00	10246.70	10247.64	-25.49	0.00	407825.72	552039.51	N 32 7 16.02 W 104	9 54.86
	20300.00	90.00	359.45	9963.00	10346.69	10347.63	-26.45	0.00	407925.70	552038.55	N 32 7 17.01 W 104	9 54.87
	20400.00	90.00	359.45	9963.00	10446.69	10447.63	-27.41	0.00	408025.69	552037.60	N 32 7 18.00 W 104	9 54.88
Chevron HH CE 26 23 FED 001 3H - PBHL	20462.32	90.00	359.45	9963.00	10509.01	10509.94	-28.00	0.00	408088.00	552037.00	N 32 7 18.62 W 104	9 54.89

Survey Type: Non-Def Plan

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

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	30.000	1/100.000	30.000	30.000	B001Ma_MWD+HDGM-Depth Only	Original Borehole / Chevron HH CE 26 23 FED 001 3H Rev0 YJ 27Jul18
	1	30.000	20462.320	1/100.000	30.000	30.000	B001Ma_MWD+HDGM	Original Borehole / Chevron HH CE 26 23 FED 001 3H Rev0 YJ



APD ID: 10400032977

Submission Date: 08/13/2018

Highlighted data
reflects the most
recent changes.

Operator Name: CHEVRON USA INCORPORATED

Well Name: HH CE 26 23 FED 001

Well Number: 3H

Show Final Text

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

HH_CE_26_23_FED_001_3H_Road_Plat_20180813093426.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? YES

Existing Road Improvement Description: The operator will improve or maintain existing roads in a condition the same as or better than before operations begin. The operator will also repair any pot holes, clear ditches, repair crown; etc. All existing structures on the entire access route such as cattle guards, other range improvements project, culverts, etc. will be properly repaired or replace if they are damaged or have deteriorated beyond practical use. We will prevent and abate fugitive dust as needed, whether created by vehicular traffic, equipment operations, or wind events. BLM written approval will be acquired before application of surfactants, binding agents, or other dust suppression chemicals on roadways. Existing lease roads operated by Chevron will be maintained as needed or upon request (based on historical weather data, CVX expects that maintenance will likely occur four to five times annually). Existing lease roads used by multiple operators will be maintained through road maintenance parameters with all parties.

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

HH_CE_26_23_FED_001_3H_New_Road_Plat_20180813093222.pdf

New road type: LOCAL

Length: 1728.23

Feet

Width (ft.): 20

Max slope (%): 2

Max grade (%): 3

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 20

Operator Name: CHEVRON USA INCORPORATED

Well Name: HH CE 26 23 FED 001

Well Number: 3H

New road access erosion control: Erosion / Drainage: Drainage control system shall be constructed on the entire length of road by the use of any of the following: ditching and will be graveled as needed for drilling, side hill out-sloping and in-sloping, lead-off ditches, culvert installation, or low water crossings, culverts, and water bars where needed: straw waddles will be used on the down-slope side of new roads where undisturbed grades away from the roadway are 5% or greater.

New road access plan or profile prepared? NO

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

Access surfacing type: NONE

Access topsoil source: ONSITE

Access surfacing type description:

Access onsite topsoil source depth: 0

Offsite topsoil source description:

Onsite topsoil removal process: NONE NEEDED

Access other construction information: Enclosure fencing will be installed around open cellar to prevent livestock or large wildlife from being trapped after installation. Fencing will remain in place while no activity is present and until back-filling takes place.

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: CROSSING,CULVERT,OTHER

Drainage Control comments: Sediment traps (hay bales suggested by BLM), not used but will have available.

Road Drainage Control Structures (DCS) description: Ditching will be constructed on both sides of road.

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

HH_CE_26_23_FED_001_3H_New_Road_Plat_20180813093222.pdf

New road type:

Length:

Width (ft.):

Max slope (%):

Max grade (%):

Army Corp of Engineers (ACOE) permit required?

Operator Name: CHEVRON USA INCORPORATED

Well Name: HH CE 26 23 FED 001

Well Number: 3H

ACOE Permit Number(s):

New road travel width:

New road access erosion control:

New road access plan or profile prepared?

New road access plan attachment:

Access road engineering design?

Access road engineering design attachment:

Access surfacing type:

Access topsoil source:

Access surfacing type description:

Access onsite topsoil source depth:

Offsite topsoil source description:

Onsite topsoil removal process:

Access other construction information:

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing:

Drainage Control comments:

Road Drainage Control Structures (DCS) description:

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

HH_CE_26_23_FED_001_3H_New_Road_Plat_20180813093222.pdf

New road type:

Length:

Width (ft.):

Max slope (%):

Max grade (%):

Army Corp of Engineers (ACOE) permit required?

Operator Name: CHEVRON USA INCORPORATED

Well Name: HH CE 26 23 FED 001

Well Number: 3H

ACOE Permit Number(s):

New road travel width:

New road access erosion control:

New road access plan or profile prepared?

New road access plan attachment:

Access road engineering design?

Access road engineering design attachment:

Access surfacing type:

Access topsoil source:

Access surfacing type description:

Access onsite topsoil source depth:

Offsite topsoil source description:

Onsite topsoil removal process:

Access other construction information:

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing:

Drainage Control comments:

Road Drainage Control Structures (DCS) description:

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

HH_CE_26_23_FED_001_3H_1mi_Radius_20180813093447.pdf

Existing Wells description:

Operator Name: CHEVRON USA INCORPORATED

Well Name: HH CE 26 23 FED 001

Well Number: 3H

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? DEFER

Estimated Production Facilities description: - Facilities: Existing production facilities located in the NE corner of Sec. 35, T26S-R27E where oil and gas sales will take place. -Gas compression will occur within the proposed facility boundaries -Gas purchaser pipeline is in place at the tank battery. -Open top tanks or open containments will be netted. -Facilities will have a secondary containment 1.5 times the holding capacity of largest storage tank. -All above ground structures will be painted non-reflective shale green for blending with surrounding environment. -Pipeline Detail to follow (Flowline, Gas Lift, Temp Water) -A ROW will be applied (if necessary; "Cicada Unit" pending) for through the State and BLM. (30' wide)

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: INTERMEDIATE/PRODUCTION CASING,
SURFACE CASING

Water source type: OTHER

Describe type: Existing ponds, gw well, private source

Source latitude:

Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Source land ownership: FEDERAL

Water source transport method: PIPELINE,TRUCKING

Source transportation land ownership: FEDERAL

Water source volume (barrels): 716000

Source volume (acre-feet): 92.28746

Source volume (gal): 30072000

Water source and transportation map:

HH_CE_26_23_FED_001_Flowline_Detail__20180809154203.pdf

Water source comments: -Existing ponds in Section 2, 9 & 10, T26S-R27E will be utilized for fresh water or recycled water. -Fresh water will be obtained from a private water source. -Temporary BLM ROWs will be applied for as needed for the water transfer lines.

New water well? NO

New Water Well Info

Well latitude:

Well Longitude:

Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Operator Name: CHEVRON USA INCORPORATED

Well Name: HH CE 26 23 FED 001

Well Number: 3H

Well depth (ft):

Well casing type:

Well casing outside diameter (in.):

Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method:

Drill material:

Grout material:

Grout depth:

Casing length (ft.):

Casing top depth (ft.):

Well Production type:

Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Construction Materials description: Caliche will be sourced from a Chevron operated NMSLO pit in Sec. 2 NW4 Sec. 16, T26S-R27E or an alternate private pit in Sec. 13, T24S R27E, EDDY County, NM.

Construction Materials source location attachment:

Section 7 - Methods for Handling Waste

Waste type: GARBAGE

Waste content description: o Garbage and Trash o Human waste and grey water o Other wastes material i.e. chemicals, salts, frac sand o Drill cutting

Amount of waste: 200 pounds

Waste disposal frequency : Daily

Safe containment description: o collected in a trash container collected for disposal o properly contained and disposed of state approved disposal facility o properly disposed of into steel tanks. All to be properly disposed at a State approved disposal facility.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** STATE

Disposal type description:

Disposal location description: STATE APPROVED FACILITY: o Carlsbad 6601 Hobbs HWY Carlsbad, NM 575-393-1079 o Eunice Sundance Services 5 miles East of Eunice on HWY 18 and Wallach Ln 575-390-0342 o Seminole Permian Disposal 587 US HWY 385 S 432-955-0322 Proposed Facilities location: ID 1 26S 27E Section 2 Unit Letter M ID 2 25S 27E Section 16 Unit Letter F ID 3 25S 27E Section 26 Unit Letter P ID 4 26S 27E Section 12 Unit Letter L ID 5 26S 27E Section 2 Unit Letter P

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.)

Reserve pit width (ft.)

Operator Name: CHEVRON USA INCORPORATED

Well Name: HH CE 26 23 FED 001

Well Number: 3H

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? YES

Description of cuttings location - The well will be drilled utilizing a closed loop system. Drill cutting will be properly disposed of into steel tanks and taken to an NMOCD approved disposal facility.

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

HH_CE_26_23_FED_001_3H_Well_Plat_20180813093652.pdf

Comments: As referenced on the attached APD SUPO - Exterior well pad dimensions are 495' x 380' - Interior well pad dimensions from point of entry (well head) of the well are described on well plat, attached. Total disturbance area needed for construction of well pad will be approximately 4.3 acres - Topsoil placement is on the west where interim reclamation is planned to be completed upon completion of well and evaluation of best management practices. - Cut and fill: will be minimal.

Operator Name: CHEVRON USA INCORPORATED

Well Name: HH CE 26 23 FED 001

Well Number: 3H

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: HH CE 26 23 FED 001

Multiple Well Pad Number: 1H, 2H, 3H, 4H

Recontouring attachment:

HH_CE_26_23_FED_001_Cut_Fill_20180809151319.pdf

HH_CE_26_23_FED_001_Interim_Reclamation_20180809151334.pdf

HH_CE_26_23_FED_001_3H_APD_SUP_Final_20180813093756.pdf

Drainage/Erosion control construction: Proper erosion control methods will be used on the area to control erosion, runoff, and siltation of the surrounding area. Please reference the master development plan APD SUPO attached.

Drainage/Erosion control reclamation: The well pad, road, and surrounding area will be cleared of material, trash, and equipment. All surfacing material will be removed and returned to the original mineral pit or recycled to repair for build roads and well pads. Please reference the master development plan APD SUPO.

Well pad proposed disturbance (acres): 6.6	Well pad interim reclamation (acres): 4.1	Well pad long term disturbance (acres): 2.5
Road proposed disturbance (acres): 1.14	Road interim reclamation (acres): 0.57	Road long term disturbance (acres): 0.57
Powerline proposed disturbance (acres): 0	Powerline interim reclamation (acres): 0	Powerline long term disturbance (acres): 0
Pipeline proposed disturbance (acres): 0.3	Pipeline interim reclamation (acres): 0.02	Pipeline long term disturbance (acres): 0.28
Other proposed disturbance (acres): 0	Other interim reclamation (acres): 0	Other long term disturbance (acres): 0
Total proposed disturbance: 8.04	Total interim reclamation: 4.69	Total long term disturbance: 3.35

Disturbance Comments: All disturbed area, including roads, pipelines, pads, production facilities, and interim reclaimed areas will be re-contoured to the contour existing prior to initial construction or a contour that blends in distinguishably with the surrounding landscape. Please reference the master development plan.

Reconstruction method: All surfacing material will be removed and returned to the original mineral pit or recycled to repair or build roads and well pads. Please reference the master development plan.

Topsoil redistribution: Topsoil that was spread over the interim reclamation areas will be stockpiled prior to re-contouring. The topsoil will be redistributed evenly over the entire disturbed site to ensure successful revegetation. Please reference the master development plan.

Soil treatment: After all the disturbed areas have been properly prepared; the areas will be seeded with the proper BLM seed mixture, free of noxious weeds. Please reference the master development plan.

Existing Vegetation at the well pad: mesquite, grass, shrubs

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: mesquite, grass, shrubs

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: mesquite, grass, shrubs

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: mesquite, grass, shrubs

Operator Name: CHEVRON USA INCORPORATED

Well Name: HH CE 26 23 FED 001

Well Number: 3H

Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed type:

Seed source:

Seed name:

Source name:

Source address:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

Seed Summary	
Seed Type	Pounds/Acre

Total pounds/Acre:

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: Kevin

Last Name: Dickerson

Phone:

Email: lfuh@chevron.com

Seedbed prep:

Seed BMP:

Seed method:

Operator Name: CHEVRON USA INCORPORATED

Well Name: HH CE 26 23 FED 001

Well Number: 3H

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: Treat with BLM seed mixture (BLM #2) free of noxious weeds.

Weed treatment plan attachment:

Monitoring plan description: The interim reclamation will be monitored periodically to ensure that vegetation has re-established.

Monitoring plan attachment:

Success standards: As per BLM requirements.

Pit closure description: None

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Operator Name: CHEVRON USA INCORPORATED

Well Name: HH CE 26 23 FED 001

Well Number: 3H

Section 12 - Other Information

Right of Way needed? YES

Use APD as ROW? YES

ROW Type(s): 287001 ROW – Water Facility, 288100 ROW – O&G Pipeline, Other

ROW Applications

SUPO Additional Information: - Recycle containment pond design feature - four permanent recycle containment ponds will be required - permanent buried pipelines will be installed to transport water - all wells covered by the MDP will require hydraulic fracturing - the ponds will be designed as "multiwell fluid management pits - Berms - berms shall be sloped at 3:1 - berm top will have at least 12' of working area - berm height, thickness, and depth will be determined based on-site specific information - Liners - ponds shall be double lined and have a method of leak detection - an 8 oz geotextile fabric shall be used to line the soil prior to installation - primary liner should be 60-mil smooth - minimum 200-mil geonet shall be installed between primary and secondary liner - Fencing - ponds shall have eight game fencing installed - the fence bottom shall be keyed-in around the perimeter of the pond site - Wildlife Protection - typical bird deterrent options include molded decoy owls and noise-making streamers - wildlife protection measure, including those for migratory birds, shall be monitored at least monthly to ensure deterrents are effective

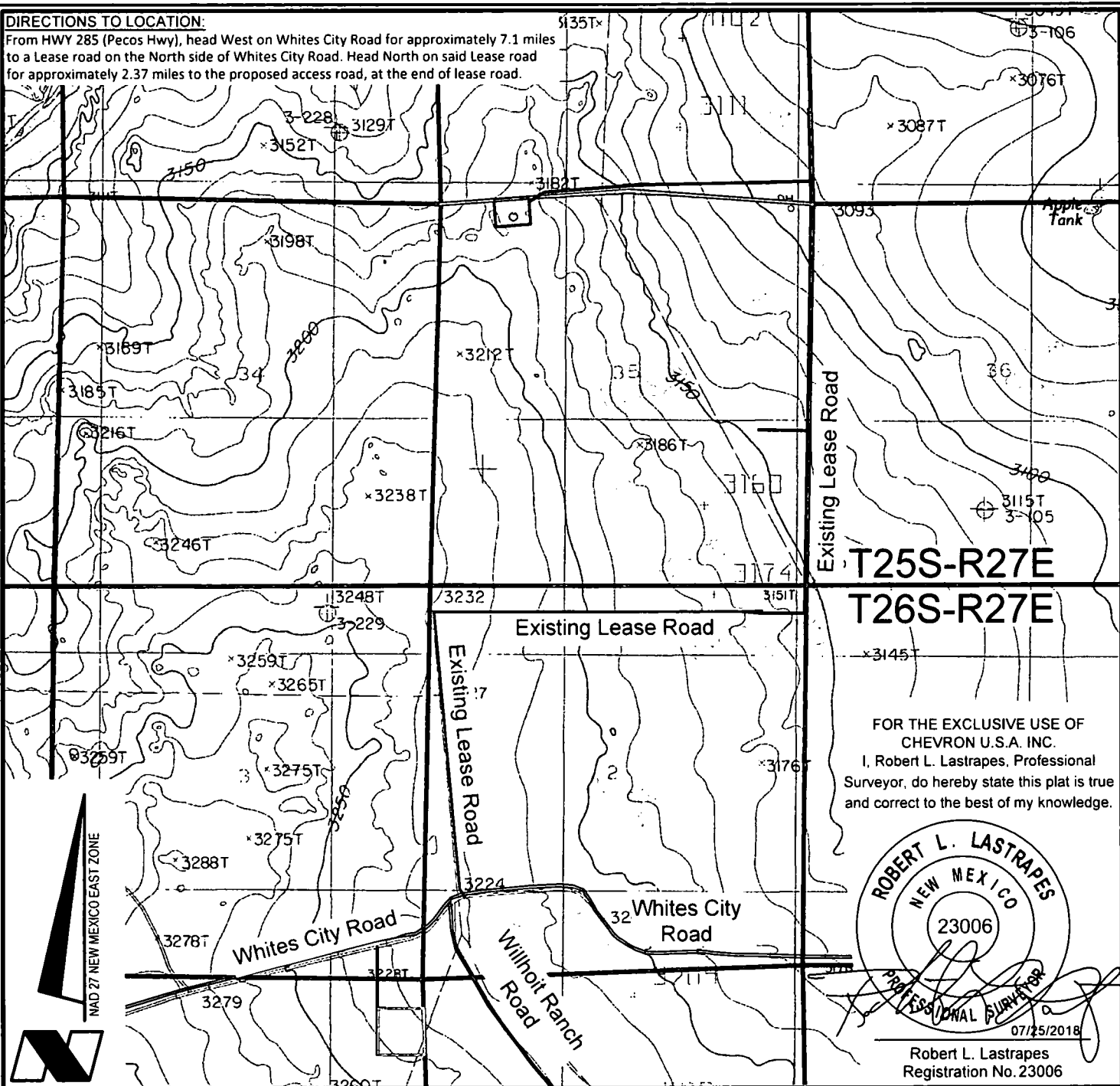
Use a previously conducted onsite? YES

Previous Onsite information: On-site performed by BLM, Mr. Paul Murphy on 4/19/2018.

Other SUPO Attachment

HH_CE_26_23_FED_001_Flowline_Detail__20180809152452.pdf

From HWY 285 (Pecos Hwy), head West on Whites City Road for approximately 7.1 miles to a Lease road on the North side of Whites City Road. Head North on said Lease road for approximately 2.37 miles to the proposed access road, at the end of lease road.

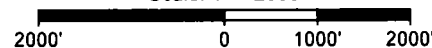


FOR THE EXCLUSIVE USE OF
CHEVRON U.S.A. INC.
I, Robert L. Lastrapes, Professional
Surveyor, do hereby state this plat is true
and correct to the best of my knowledge.

Robert L. Lastrapes
Registration No. 23006

ROAD PLAT

Scale: 1" = 2000'



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

HH CE 26 23 FED 001 NO. 3H WELL
LOCATED 245' FNL AND 1035' FWL
SECTIONS 26 & 35, T25S-R27E
EDDY COUNTY, NEW MEXICO



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

DRAWN BY: AMT	#	BY:	DATE:	DESCRIPTION:
PROJ. MGR.: GDG	1	DMB	07/24/2018	Revise access road
DATE: 07/13/2018				
FILENAME: T:\2017\2176160\DWG\HH CE 26 23 FED 001 No 3H APD.dwg				

R 27E

T
25
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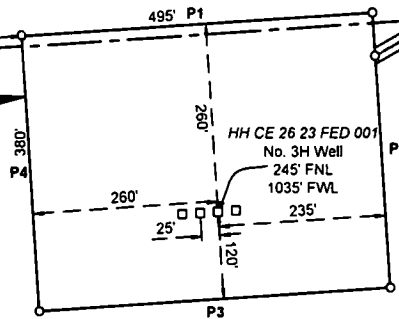
Sec. 26

Bureau of Land Management
Proposed Pad: ±0.17 Acres
Proposed Access: ±1,623.38', ±98.39 Rods, ±0.74 Acres

**PROPOSED
ACCESS ROAD**
20' x ±1,728.23
±104.74 Rods
±0.79 Acres

Fnd. 2" Iron Pipe w/
Cap @ the NW
Corner of Section 35

PROPOSED PAD
±4.32 ACRES



Sec. 35

Bureau of Land Management
Proposed Pad: ±4.15 Acres
Proposed Access: ±104.85', ±6.35 Rods, ±0.05 Acres

HH CE 26 23 FED 001 NO. 3H WELL			
X=	552,065		
Y=	397,579		
LAT.	32.092950 N	NAD 27	
LONG.	104.165208 W		
X=	593,249		
Y=	397,637		
LAT.	32.093072 N	NAD83/85	
LONG.	104.165700 W		
ELEV.	+3185'	NAVD88	

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.



WELL PLAT

Page 1 of 3

CHEVRON U.S.A. INC.
PROPOSED PAD & ACCESS ROAD
HH CE 26 23 FED 001 NO. 3H WELL
SECTIONS 26 & 35, T25S-R27E
EDDY COUNTY, NEW MEXICO

REVISIONS

DRAWN BY:	AMT	#	BY:	DATE:	DESCRIPTION:
PROJ. MGR.:	GDG	1	DMB	07/23/2018	Revise access road
DATE:	07/13/2018				
FILENAME: T:\2017\2176160\DWG\HH CE 26 23 FED 001 No 3H Well Plat.dwg					

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

Robert L. Lastrapes
Registration No. 23006



LEGEND	
	Proposed Pad
	Section Line
	Centerline Access Road
	Fnd. Monument

Scale: 1" = 200'
200' 0 100' 200'

NAD 27 NEW MEXICO EAST ZONE

R 27E

Sec. 26

Bureau of Land Management

Proposed Pad: ± 0.17 Acres

Proposed Access: $\pm 1,623.38'$, ± 98.39 Rods, ± 0.74 Acres

T
25
S

SEE PAGE 1

PROPOSED
ACCESS ROAD
20' x $\pm 1,728.23$
 ± 104.74 Rods
 ± 0.79 Acres

A2

A1

Future Access Road

Fnd. 1" Iron Pipe w/
Brass Cap @ the South/4
Corner of Section 26

HH CE 26 23
FED 002

Sec. 35

Bureau of Land Management

Proposed Pad: ± 4.15 Acres

Proposed Access: $\pm 104.85'$, ± 6.35 Rods, ± 0.05 Acres

LEGEND

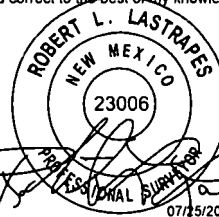
- Proposed Pad
- Future Pad/Road
- Section Line
- Future Access
- Centerline Access Road
- Fnd. Monument

Scale: 1" = 300'

300' 0 150' 300'

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.



Robert L. Lastrapes
Registration No. 23006

WELL PLAT

Page 2 of 3

CHEVRON U.S.A. INC.
PROPOSED PAD & ACCESS ROAD
HH CE 26 23 FED 001 NO. 3H WELL
SECTIONS 26 & 35, T25S-R27E
EDDY COUNTY, NEW MEXICO

REVISIONS

DRAWN BY:	AMT	#	BY:	DATE:	DESCRIPTION:
PROJ. MGR.:	GDG	1	DMB	07/23/2018	Revise access road
DATE:	07/13/2018				

FILENAME: T:\2017\2176160\DWG\HH CE 26 23 FED 001 No 3H Well Plat.dwg



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NW PAD CORNER			NE PAD CORNER		
X=	551,789		X=	552,283	
Y=	397,822		Y=	397,854	
LAT.	32.093617 N	NAD 27	LAT.	32.093705 N	NAD 27
LONG.	104.166100 W		LONG.	104.164505 W	
X=	592,972		X=	593,466	
Y=	397,879	NAD83/86	Y=	397,912	NAD83/86
LAT.	32.093739 N		LAT.	32.093827 N	
LONG.	104.166593 W		LONG.	104.164998 W	
ELEV.	+3178'	NAVD88	ELEV.	+3183'	NAVD88
SW PAD CORNER			SE PAD CORNER		
X=	551,814		X=	552,308	
Y=	397,443		Y=	397,475	
LAT.	32.092575 N	NAD 27	LAT.	32.092652 N	NAD 27
LONG.	104.166021 W		LONG.	104.164426 W	
X=	592,997		X=	593,491	
Y=	397,500	NAD83/86	Y=	397,532	NAD83/86
LAT.	32.092697 N		LAT.	32.092784 N	
LONG.	104.166514 W		LONG.	104.164919 W	
ELEV.	+3194'	NAVD88	ELEV.	+3186'	NAVD88

PROPOSED PAD		
COURSE	BEARING	DISTANCE
P1	N 86° 13' 44" E	495.00'
P2	S 03° 46' 16" E	380.00'
P3	S 86° 13' 44" W	495.00'
P4	N 03° 46' 16" W	380.00'

PROPOSED ACCESS ROAD		
COURSE	BEARING	DISTANCE
A1	S 88° 46' 59" W	50.10'
A2	S 85° 43' 34" W	1,434.67'
A3	S 60° 34' 44" W	243.46'

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WELL PLAT

Page 3 of 3

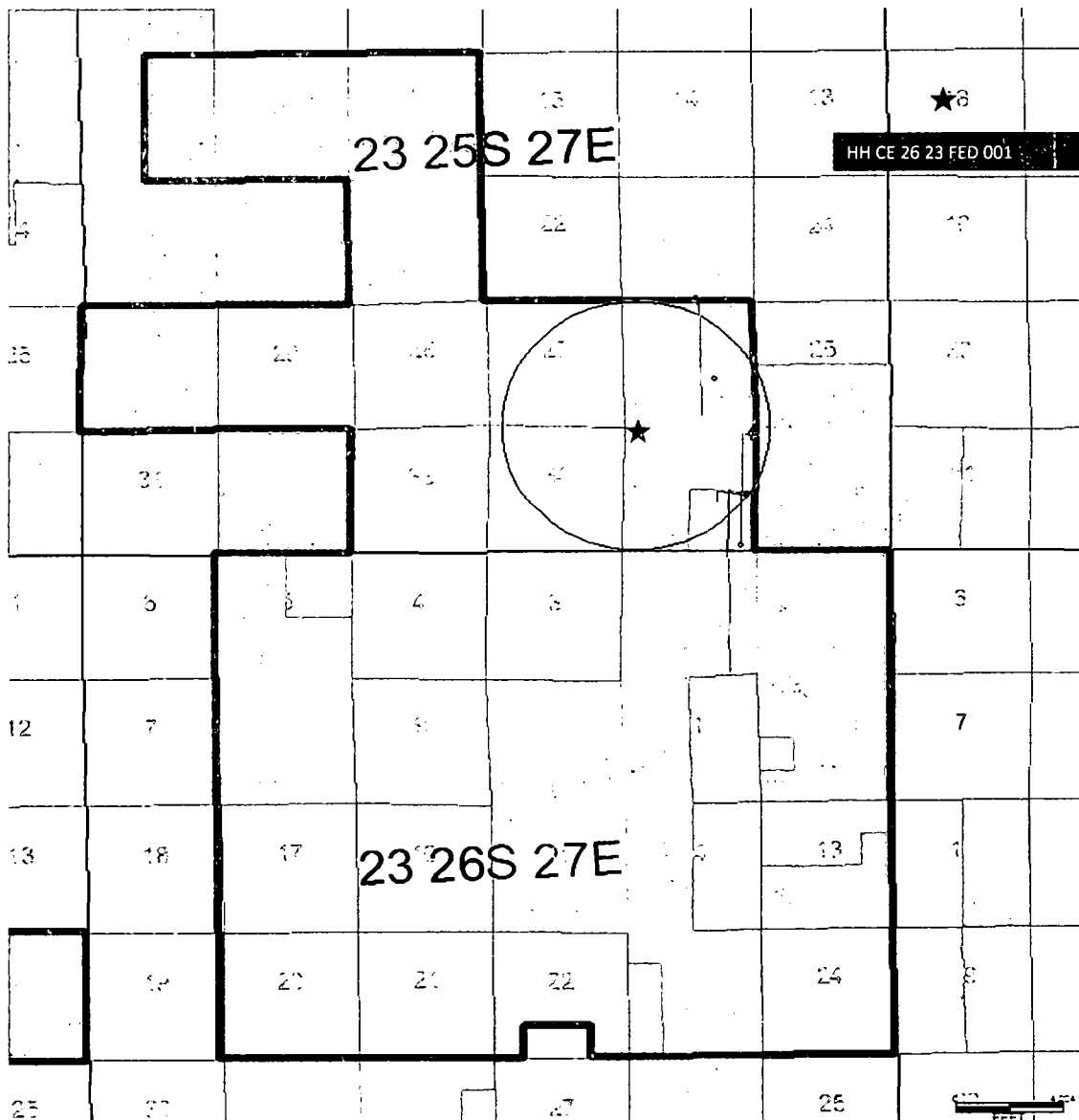
CHEVRON U.S.A. INC.
PROPOSED PAD & ACCESS ROAD
HH CE 26 23 FED 001 NO. 3H WELL
SECTIONS 26 & 35, T25S-R27E
EDDY COUNTY, NEW MEXICO

REVISIONS

DRAWN BY:	AMT	#	BY:	DATE:	DESCRIPTION:
PROJ. MGR.:	GDG	1	DMB	07/23/2018	Revise access road
DATE:	07/13/2018				
FILENAME: T:\2017\2176160\DWG\HH CE 26 23 FED 001 No 3H Well Plat.dwg					

HH CE 26 23 FED 001 3H
1 Mile Radius Map

API	Well Name	Well Number	Operator	Final Status	SHL Distance
30015011470000	LOCKWOOD	1	CHEVRON U S A INCORPORATED	WELL PERMIT	3325
30015238480000	AMOCO FEDERAL	1	CHAMBERS&KENEDY-RITCHIE	DRY & ABANDONED	3865
30015379160000	COOKSEY '26' FEDERAL COM	001H	CHEVRON U S A INCORPORATED	AT TOTAL DEPTH	4540
30015410460000	SKEEN 2-26-27 STATE	002H	CHEVRON U S A INCORPORATED	WELL START	4550
30015430400000	MIDNIGHT SUN 2 26 27	003H	CHEVRON U S A INCORPORATED	AT TOTAL DEPTH	4565
30015430400100	MIDNIGHT SUN 2 26 27	004H	CHEVRON U S A INCORPORATED	AT TOTAL DEPTH	4590
30015439540000	SAGE 35 B2PA FED COM	005H	CHEVRON U S A INCORPORATED	WELL START	4605
30015442020000	DIGNITAS 26 STATE SWD	006H	CHEVRON U S A INCORPORATED	WELL START	4620
30015443450000	HH CE 35 2 FEDERAL 006	5H	CHEVRON U S A INCORPORATED	JUNKED & ABANDONED	5325
30015443460000	HH CE 35 2 FED 006	5H	CHEVRON U S A INCORPORATED	PILOT HOLE - WO	5325
30015443470000	HH CE 35 2 FED 006	1H	CHEVRON U S A INCORPORATED	OIL PRODUCER	5340
30015443480000	HH CE 35 2 FED 006	1	WOOD & LOCKER INCORPORATED	ABD-OW	5690
30015443490000	HH CE 35 2 FED 006	1H	CHESAPEAKE OPERATING INC	OIL PRODUCER	5905
30015443500000	HH CE 35 2 FED 006	1H	MEWBOURNE OIL COMPANY	WELL PERMIT	6010
30015417440000	SKEEN 2 SWD	2	CHEVRON U S A INCORPORATED	SWDOP	10190
30015438920000	GRAVITAS 2 STATE SWD	1	CHEVRON U S A INCORPORATED	SWDOP	10200



LEGEND	
	Proposed Right of Way
	Temp Water Line
	Flowline Cluster
	Gas Lift Flowlines
	Section Line
	Paddy/Follow

R 27 E

Sec. 26

BUREAU OF LAND MANAGEMENT
Proposed 30' ROW (Total Width) ±1,479.11', ±59.84 Rods, ±1.02 Acres
Proposed Gas Lift Line ±1,478.52', ±59.49 Rods
Proposed Temp Water Line ±1,497.20', ±60.74 Rods
Proposed Flowline Cluster ±1,455.84', ±60.23 Rods

Future
HH CE 35 2 FED 002

T
25
S

Point of Commencement/
Fnd. 2" Iron Pipe w/ Brass
Cap @ the Northwest
Corner of Section 35

Future
HH CE 35 2 FED 001

S 82° 08' 53" E 1,202.25'

30' ROW

Future Access Road

PROPOSED 30' ROW
±1,828.87', ±110.45, ±1.28 Acres
PROPOSED GAS LIFT LINE
±1,828.06', ±110.81 Rods
PROPOSED TEMP WATER LINE
±1,823.19', ±110.49 Rods
PROPOSED FLOWLINE CLUSTER
±1,828.87', ±110.72 Rods

S 72° 58' 51" W 206.48'
Fnd. 1" Iron Pipe w/ Brass
Cap @ the South
Corner of Section 26

Future
HH CE 26 23 FED 002

Sec. 35

BUREAU OF LAND MANAGEMENT
Proposed 30' ROW (Total Width) ±348.72', ±11.01 Rods, ±0.24 Acres
Proposed Gas Lift Line ±348.54', ±11.12 Rods
Proposed Temp Water Line ±325.82', ±10.75 Rods
Proposed Flowline Cluster ±371.13', ±12.49 Rods

COURSE	BEARING	DISTANCE
1	N 03° 46' 18" W	194.44'
2	N 60° 34' 44" E	233.25'
3	N 85° 43' 34" E	1398.14'

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

PRELIMINARY

THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY
PURPOSE AND SHALL NOT BE USED OR VIEWED OR
RELIED UPON AS A FINAL SURVEY DOCUMENT

Robert L. Lastropes
Registration No. 23008

NOTE: No field work was performed by C.H.
Fenstermaker & Associates, L.L.C. on the proposed
pipelines depicted in these drawings. Pipelines shown
are preliminary and are based on previous survey data
and digitized client-furnished information. Pipeline
positions and distances should be considered
approximate. Following final staking, revised plats will
reflect as-staked pipeline positions, bearings and
distances.

Scale: 1" = 200'

200' 0 100' 200'

DETAIL

Page 1 of 2

CHEVRON U.S.A. INC.
PROPOSED RIGHT OF WAY
HH CE 26 23 FED 001
SECTIONS 26 & 35, T 25S-R27E
EDDY COUNTY, NEW MEXICO



C.H. Fenstermaker & Associates, L.L.C.
125 Regency/5th Lafayette LA 70008
Ph. 337-237-2200 Fax. 337-232-3299
www.fenstermaker.com

REVISIONS

DRAWN BY: GDO	BY:	DATE:	DESCRIPTION:
PROJ. MGR: GDO			
DATE: 07/25/2018			

FILENAME: T:\2018\2187819\DWG\HH CE 26 25 FED 002 FLOWLINE DETAIL.dwg

DISCLAIMER: At this time, C.H. Fenstermaker & Associates, L.L.C. has not performed nor was asked to perform any type of engineering, hydrological modeling, flood plain, or "No Rise" certification analyses, including but not limited to determining whether the project will impact flood hazards in connection with federal/FEMA, state, and/or local laws, ordinances and regulations. Accordingly, Fenstermaker makes no warranty or representation of any kind as to the foregoing issues, and persons or entities using this information shall do so at their own risk.

NOTE:

1. Please be advised that while reasonable efforts are made to locate and verify pipeline and associated usage via standard pipeline locating equipment, it is impossible to be 100% effective. As such, we advise using caution when performing work as there is a possibility that pipelines and other hazards, such as fiber optics, cables, PUV pipelines, etc. may exist undetected on site.
2. Many states maintain information centers that establish links between those who dig (excavators) and those who own and operate underground facilities (operators). It is advisable and in most states, law, for the contractor to contact the center for assistance in locating and marking underground utilities prior to digging. New Mexico One Call: www.nmonecall.org
3. No field work was performed by C.H. Fenstermaker & Associates, L.L.C. on the proposed pipelines depicted in these drawings. Pipelines shown are preliminary and are based on previous survey data and digitized client-furnished information. Pipeline positions and distances should be considered approximate. Following final staking, revised plans will reflect as-staked pipeline positions, bearings and distances.
4. It is not a boundary survey. As such, this survey does not, nor was intended, to comply with the NBLPEPS minimum standards of practice for a land boundary survey. Only limited measurements were made and lease lines were established and compiled from those measurements and records. This plat is strictly for the use of Chevron U.S.A. Inc. for acquiring permits for oil and gas exploration in the state of New Mexico.

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CHEVRON U.S.A. INC.
I, Robert L. Lastrapes, Professional
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Robert L. Lastrapes
Registration No. 23006

**METES AND BOUNDS DESCRIPTION OF A
PROPOSED RIGHT OF WAY LOCATED IN
SECTIONS 26 AND 35 OF T25S-R27E
EDDY COUNTY, NEW MEXICO**

HH CE 26 23 FED 001 RIGHT OF WAY

Description of the centerline of a proposed 30 feet wide by 1825.83 feet or 110.62 rods of right of way (15 feet each side of centerline) across Bureau of Land Management property located in Sections 26 and 35 of Township 25 South, Range 27 East, and described as follows:

Commencing at the Northwest corner of said Section 35 Township 25 South Range 27 East at a found 1" iron pipe with brass cap, Thence South 82 degrees 08 minutes 53 seconds East 1292.25 feet to the Point of Beginning. Said Point of Beginning has the following coordinates: X = 552,315.69; Y = 397,180.89 (New Mexico State Plane Coordinate System, East Zone, NAD 27)

Thence North 03 degrees 46 minutes 16 seconds West 194.44 feet to a point.
Thence North 60 degrees 34 minutes 44 seconds East 152.28 feet to a common Section line of said Sections 35 and 26, T 25S-R 27E.

Thence North 60 degrees 34 minutes 44 seconds East 80.97 feet to a point.
Thence North 95 degrees 45 minutes 34 seconds East 1,391.14 feet to the Point of Ending, having the following coordinates: X = 553,900.32 and Y = 397,993.69 (New Mexico State Plane Coordinate System, East Zone, NAD 27)


The bearings recited herein are oriented to New Mexico State Plane Coordinate System, East Zone, NAD 27.

This description represents a survey made on the ground for a right of way and intended solely for that purpose. This description does not represent a boundary survey.

DETAIL

Page 2 of 2

CHEVRON U.S.A. INC.
PROPOSED RIGHT OF WAY
HH CE 26 23 FED 001
SECTIONS 26 & 35, T 25S-R27E
EDDY COUNTY, NEW MEXICO

	C. H. Fenstermaker & Associates, L.L.C.				REVISIONS	
	135 Regency, So. Lakeland, LA 70508				DESCRIPTION:	
	Ph. 337-371-7200 Fax 337-323-3299					
	www.fenstermaker.com					
	DRAWN BY: GDG	#	BY:	DATE:		
	PROJ. MGR.: GDG					
	DATE: 07/25/2018					
	FILENAME: T:\2018\2187818\FLOW\HH CE 26 23 FED 002 FLOWLINE DETAIL.dwg					

C. H. Fenstermaker & Associates, L.L.C.
135 Regency Sq., Lafayette, LA 70508
Ph: 337-257-0200 Fax: 337-222-3299
www.fenstermaker.com



R 27E

T
25
S

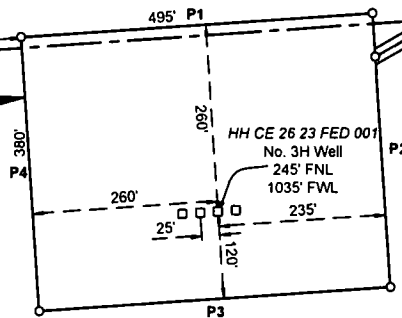
Sec. 26

Bureau of Land Management
Proposed Pad: ±0.17 Acres
Proposed Access: ±1,623.38', ±98.39 Rods, ±0.74 Acres

**PROPOSED
ACCESS ROAD**
20' x ±1,728.23
±104.74 Rods
±0.79 Acres

Fnd. 2" Iron Pipe w/
Cap @ the NW
Corner of Section 35

PROPOSED PAD
±4.32 ACRES



Sec. 35

Bureau of Land Management
Proposed Pad: ±4.15 Acres
Proposed Access: ±104.85', ±6.35 Rods, ±0.05 Acres

HH CE 26 23 FED 001 NO. 3H WELL		
X=	552,065	
Y=	397,579	
LAT.	32.092950 N	NAD 27
LONG.	104.165208 W	
X=	593,249	
Y=	397,637	
LAT.	32.093072 N	NAD83/86
LONG.	104.165700 W	
ELEV.	+3185'	NAVD88

NAD 27 NEW MEXICO EAST ZONE

LEGEND

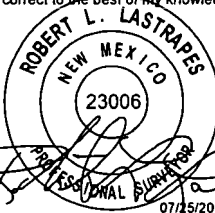
- Proposed Pad
- Section Line
- Centerline Access Road
- Fnd. Monument

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200' 0 100' 200'

FOR THE EXCLUSIVE USE OF
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Robert L. Lastrapes
Registration No. 23006

WELL PLAT

Page 1 of 3

CHEVRON U.S.A. INC.
PROPOSED PAD & ACCESS ROAD
HH CE 26 23 FED 001 NO. 3H WELL
SECTIONS 26 & 35, T25S-R27E
EDDY COUNTY, NEW MEXICO

REVISIONS

DRAWN BY:	AMT	#	BY:	DATE:	DESCRIPTION:
PROJ. MGR.:	GDG	1	DMB	07/23/2018	Revise access road
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FILENAME: T:\2017\2176160\DWG\HH CE 26 23 FED 001 No 3H Well Plat.dwg



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R 27E

Sec. 26

Bureau of Land Management

Proposed Pad: ±0.17 Acres

Proposed Access: ±1,623.38', ±98.39 Rods, ±0.74 Acres

T
25
S

SEE PAGE 1

PROPOSED
ACCESS ROAD
20' x ±1,728.23
±104.74 Rods
±0.79 Acres

A2

A1

Future Access Road

Fnd. 1" Iron Pipe w/
Brass Cap @ the South/4
Corner of Section 26

N 72° 12' 31" E
290.42'

HH CE 26 23
FED 002

Sec. 35

Bureau of Land Management

Proposed Pad: ±4.15 Acres

Proposed Access: ±104.85', ±6.35 Rods, ±0.05 Acres

LEGEND

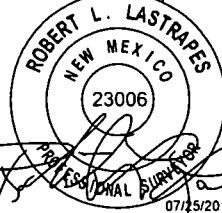
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WELL PLAT

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PROPOSED PAD & ACCESS ROAD
HH CE 26 23 FED 001 NO. 3H WELL
SECTIONS 26 & 35, T25S-R27E
EDDY COUNTY, NEW MEXICO

REVISIONS

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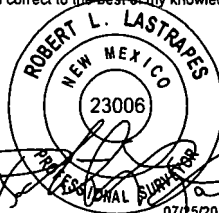
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LONG.	104.166593 W		LONG.	104.164998 W	
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LONG.	104.166514 W		LONG.	104.164919 W	
ELEV.	+3194'	NAVD88	ELEV.	+3186'	NAVD88

PROPOSED PAD		
COURSE	BEARING	DISTANCE
P1	N 86° 13' 44" E	495.00'
P2	S 03° 46' 16" E	380.00'
P3	S 86° 13' 44" W	495.00'
P4	N 03° 46' 16" W	380.00'

PROPOSED ACCESS ROAD		
COURSE	BEARING	DISTANCE
A1	S 88° 46' 59" W	50.10'
A2	S 85° 43' 34" W	1,434.67'
A3	S 60° 34' 44" W	243.46'

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Robert L. Lastrapes
Registration No. 23006

WELL PLAT

Page 3 of 3

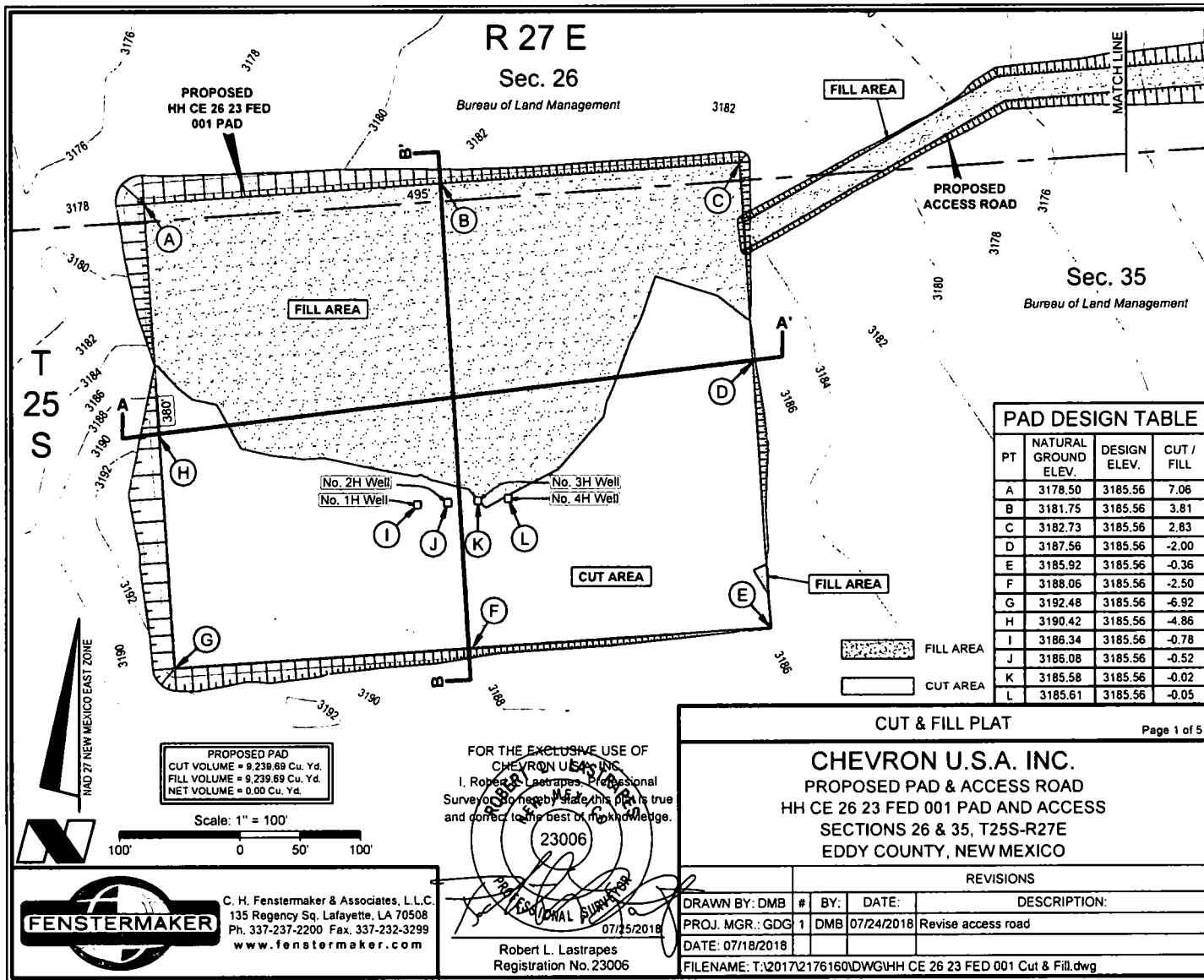
CHEVRON U.S.A. INC.
PROPOSED PAD & ACCESS ROAD
HH CE 26 23 FED 001 NO. 3H WELL
SECTIONS 26 & 35, T25S-R27E
EDDY COUNTY, NEW MEXICO

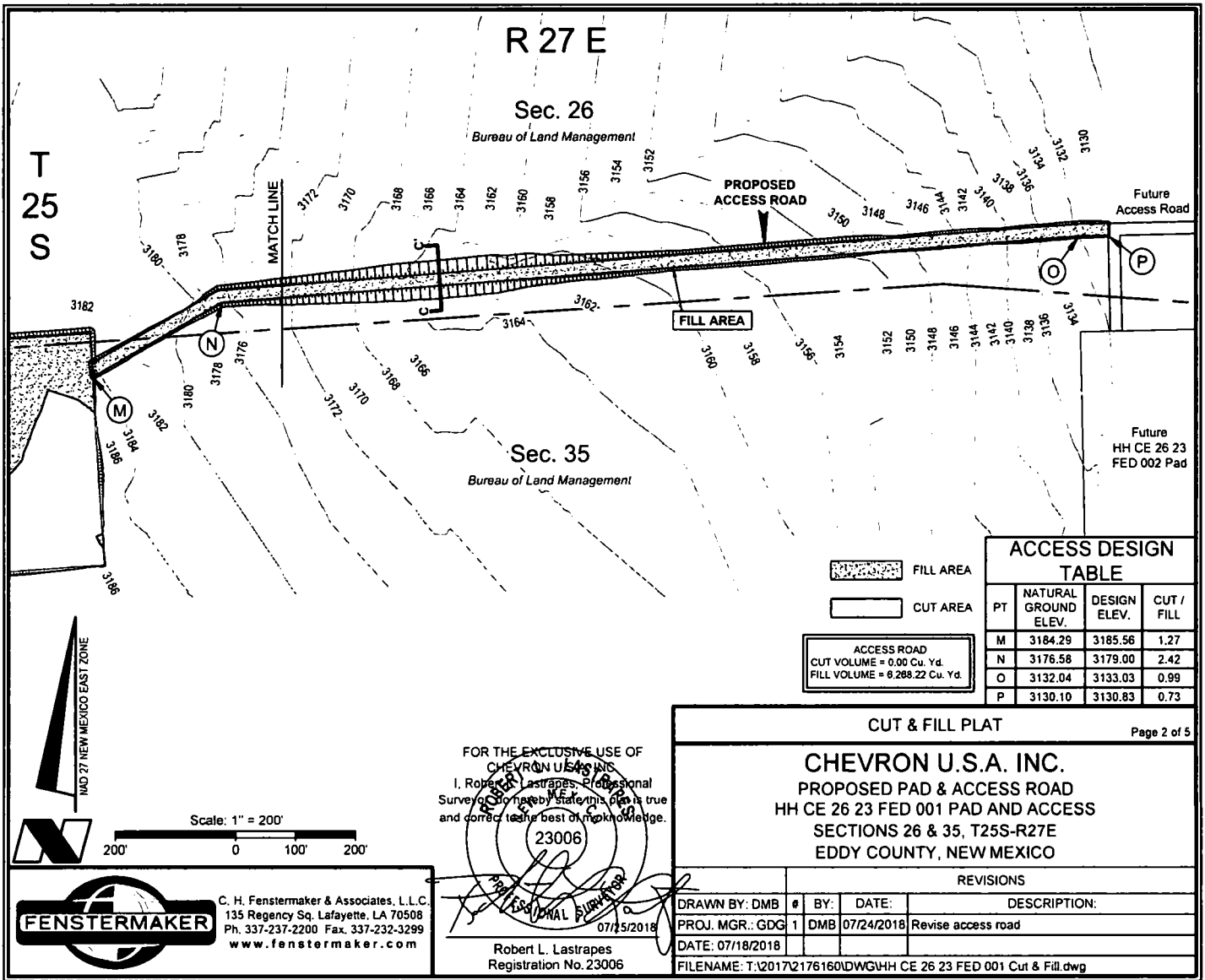
REVISIONS

DRAWN BY:	AMT	#	BY:	DATE:	DESCRIPTION:
PROJ. MGR.:	GDG	1	DMB	07/23/2018	Revise access road
DATE:	07/13/2018				
FILENAME: T:\2017\2176160\DWG\HH CE 26 23 FED 001 No 3H Well Plat.dwg					

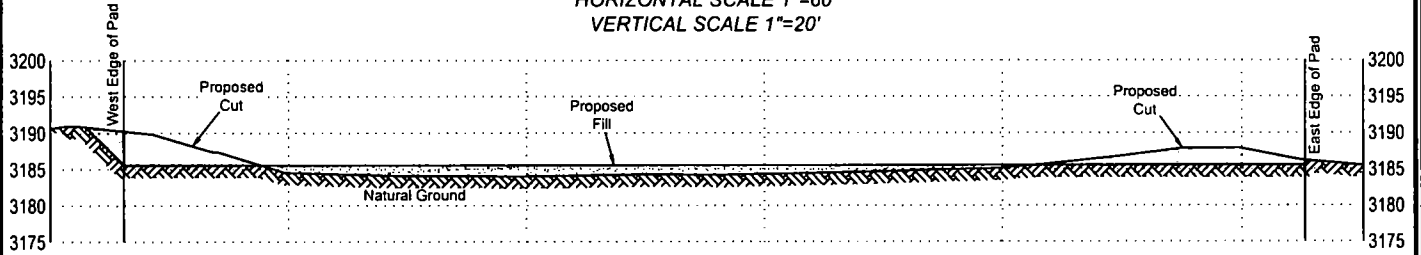


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135 Regency Sq. Lafayette, LA 70508
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www.fenstermaker.com

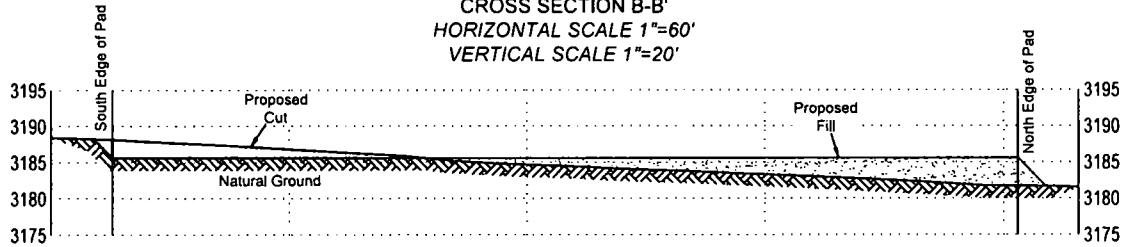




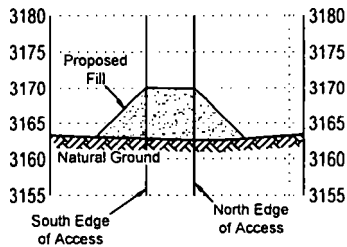
CROSS SECTION A-A'
HORIZONTAL SCALE 1"=60'
VERTICAL SCALE 1"=20'



CROSS SECTION B-B'
HORIZONTAL SCALE 1"=60'
VERTICAL SCALE 1"=20'



CROSS SECTION C-C'
HORIZONTAL SCALE 1"=60'
VERTICAL SCALE 1"=20'



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Surveyor, hereby state this plan is true
and correct to the best of my knowledge.

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Robert L. Lastrapes
Registration No. 23006

CUT & FILL PLAT

Page 3 of 5

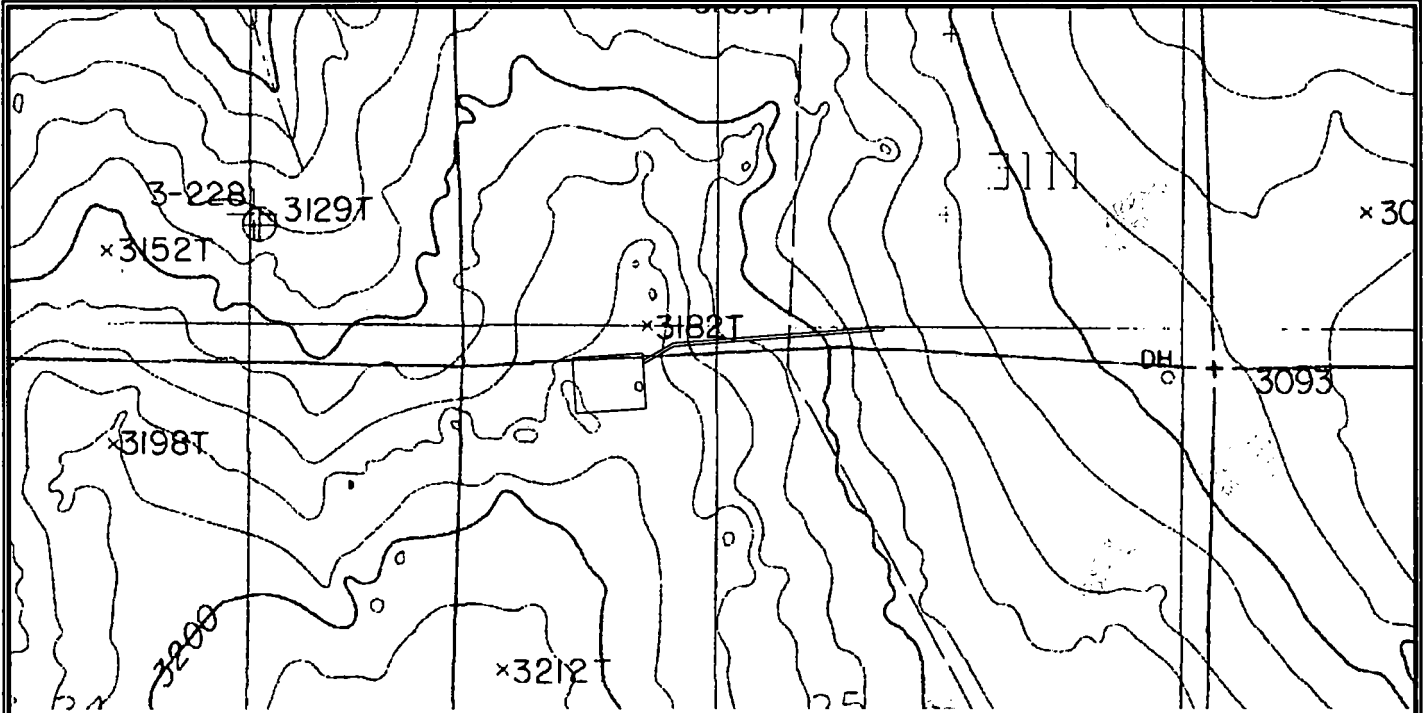
CHEVRON U.S.A. INC.
PROPOSED PAD & ACCESS ROAD
HH CE 26 23 FED 001 PAD AND ACCESS
SECTIONS 26 & 35, T25S-R27E
EDDY COUNTY, NEW MEXICO

REVISIONS

DRAWN BY:	#	BY:	DATE:	DESCRIPTION:
PROJ. MGR.: GDG	1	DMB	07/24/2018	Revise access road
DATE: 07/18/2018				
FILENAME: T:\2017\2176160\DWG\HH CE 26 23 FED 001 Cut & Fill.dwg				



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Scale: 1" = 1,000'

1,000' 0 500' 1,000'



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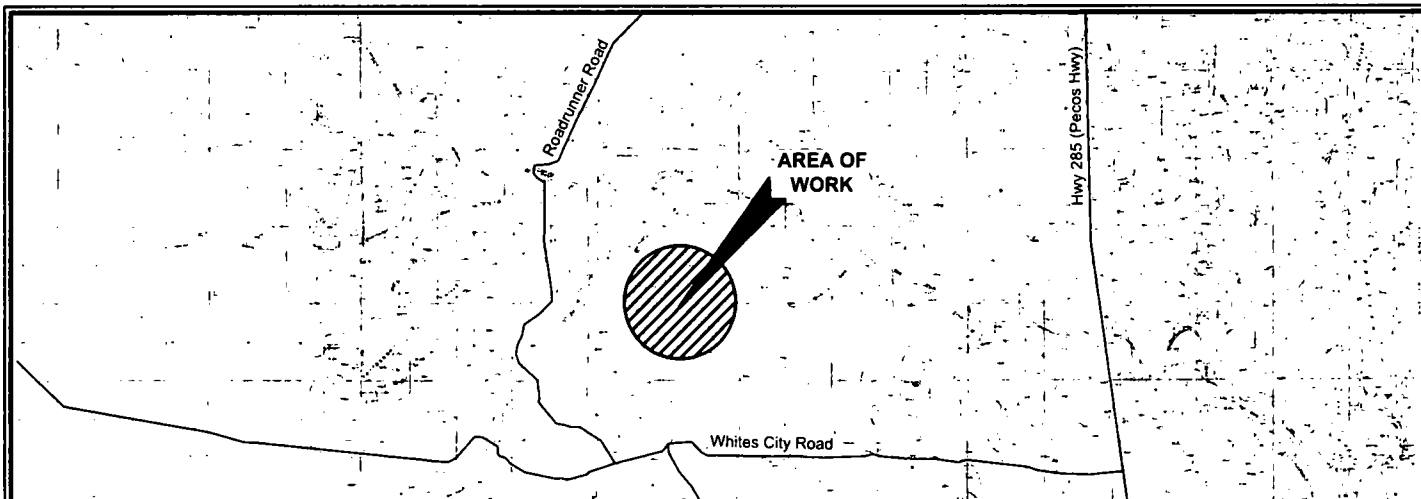
CUT & FILL PLAT

Page 4 of 5

CHEVRON U.S.A. INC.
PROPOSED PAD & ACCESS ROAD
HH CE 26 23 FED 001 PAD AND ACCESS
SECTIONS 26 & 35, T25S-R27E
EDDY COUNTY, NEW MEXICO

REVISIONS

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NOTE:

1 Many states maintain information centers that establish links between those who dig (excavators) and those who own and operate underground facilities (operators). It is advisable and in most states, law, for the contractor to contact the center for assistance in locating and marking underground utilities. For guidance: New Mexico One Call www.nmonecall.com.

2 The design pad elevation recommendation is based solely on a cut and fill (1:1 ratio) balance of the pad and does not include material required for the access roads. A detailed soil test and slope stability analysis shall be performed prior to construction to ensure proper compaction and working performance of the pad under the anticipated loadings. This material balance sheet does not constitute a foundation design and C. H. Fenstermaker & Associates, L.L.C. makes no warranty to the structural integrity of the site layout as shown. Fenstermaker also makes no recommendation or warranty about the layout relative to flood hazards, erosion control, or soil stability issues. Elevations refer to the North American Vertical Datum of 1988.

3. Please be advised, that while reasonable efforts are made to locate and verify pipelines and anomalies using our standard pipeline locating equipment, it is impossible to be 100 % effective. As such, we advise using caution when performing work as there is a possibility that pipelines and other hazards, such as fiber optic cables, PVC pipelines, etc. may exist undetected on site.



Scale: 1" = 10,000'
10,000' 0 5,000' 10,000'

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CUT & FILL PLAT

Page 5 of 5

CHEVRON U.S.A. INC.
PROPOSED PAD & ACCESS ROAD
HH CE 26 23 FED 001 PAD AND ACCESS
SECTIONS 26 & 35, T25S-R27E
EDDY COUNTY, NEW MEXICO

REVISIONS

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DATE:	07/18/2018				
FILENAME: T:\2017\2176160\DWG\HH CE 26 23 FED 001 Cut & Fill.dwg					



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R 27E

Sec. 26

Bureau of Land Management
Temp Pad Area: ±0.17 Acres

Fnd. 2" Iron Pipe
w/ Cap @ the
NW Corner of
Section 35

T
25
S

Sec. 35

Bureau of Land Management
Temp Pad Area: ±2.14 Acres
Perm Pad Area: ±2.01 Acres

PROPOSED
TEMPORARY
PAD AREA
±2.31 Acres

PROPOSED
PERMANENT
PAD AREA
±2.01 Acres

HH CE 26 23 FED 001
No. 2H Well

HH CE 26 23 FED 001
No. 3H Well

HH CE 26 23 FED 001
No. 4H Well

HH CE 26 23 FED 001
No. 1H Well

HH CE 26 23 FED 001 NO. 1H WELL			
X=	552,015		
Y=	397,576		
LAT.	32.092941 N	NAD 27	
LONG.	104.165369 W		
X=	593,199		
Y=	397,633		
LAT.	32.093063 N	NAD83/86	
LONG.	104.165862 W		
ELEV.	+3185'	NAVD88	

NAD 27 NEW MEXICO EAST ZONE

Scale: 1" = 100'

100' 0 50' 100'

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07/25/2018

Robert L. Lastrapes
Registration No. 23006

SURFACE USE PLAT

Page 1 of 2

CHEVRON U.S.A. INC.

INTERIM RECLAMATION
HH CE 26 23 FED 001 PAD
SECTIONS 26 & 35, T25S-R27E
EDDY COUNTY, NEW MEXICO

REVISIONS

DRAWN BY:	#	BY:	DATE:	DESCRIPTION:
PROJ. MGR.: GDG				
DATE: 07/13/2018				

FILENAME: T:\2017\2176160\DWG\HH CE 26 23 FED 001 Interim Reclamation.dwg



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NOTE:

Many states maintain information centers that establish links between those who dig (excavators) and those who own and operate underground facilities (operators). It is advisable and in most states, law, for the contractor to contact the center for assistance in locating and marking underground utilities. For guidance, New Mexico One Call www.nmonecall.org

NW PAD CORNER			NE PAD CORNER		
X=	551,789	NAD 27	X=	552,283	NAD 27
Y=	397,822		Y=	397,854	
LAT.	32.093617 N		LAT.	32.093705 N	
LONG.	104.166100 W		LONG.	104.164505 W	
X=	592,972	NAD83/86	X=	593,466	NAD83/86
Y=	397,879		Y=	397,912	
LAT.	32.093739 N		LAT.	32.093827 N	
LONG.	104.166593 W		LONG.	104.164998 W	
ELEV.	+3178'	NAVD88	ELEV.	+3183'	NAVD88
SW PAD CORNER			SE PAD CORNER		
X=	551,814	NAD 27	X=	552,308	NAD 27
Y=	397,443		Y=	397,475	
LAT.	32.092575 N		LAT.	32.092662 N	
LONG.	104.166021 W		LONG.	104.164426 W	
X=	592,997	NAD83/86	X=	593,491	NAD83/86
Y=	397,500		Y=	397,532	
LAT.	32.092697 N		LAT.	32.092784 N	
LONG.	104.166514 W		LONG.	104.164919 W	
ELEV.	+3194'	NAVD88	ELEV.	+3186'	NAVD88

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I, Robert L. Lastrapes, Professional
Surveyor, do hereby state, this plan is true
and correct to the best of my knowledge.

23006

07/25/2018

Robert L. Lastrapes
Registration No. 23006

SURFACE USE PLAT

Page 2 of 2

CHEVRON U.S.A. INC.
INTERIM RECLAMATION
HH CE 26 23 FED 001 PAD
SECTIONS 26 & 35, T25S-R27E
EDDY COUNTY, NEW MEXICO

REVISIONS

DRAWN BY:	#	BY:	DATE:	DESCRIPTION:
PROJ. MGR.:	GDG			
DATE:	07/13/2018			
FILENAME: T:\2017\2176160\DWG\HH CE 26 23 FED 001 Interim Reclamation.dwg				



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APD Surface Use Plan of Operations

This Surface Use Plan of Operations has been designed to be reviewed in conjunction with Hayhurst Development Area (HDA) Master Development Plan

HDA Master Development Plan Reference Table

The contents referenced below apply to all HDA APD's

Existing Roads	Exhibit 1, MDP SUPO Page 1
Construction Materials	MDP SUPO Page 6
Methods for Handling Waste	MDP SUPO Page 6
Reclamation Objectives	MDP SUPO Page 6-8
Final Surface Reclamation	MDP SUPO Page 6-8

Driving Directions

- Driving Directions – From Malaga, New Mexico. The location is approximately 11.5 miles from the nearest town, which is Malaga, New Mexico. From Malaga, proceed South on Highway 285 approximately 11.5 miles and turn right (West) onto White City Rd and go approximately 6.5 miles on White City Road until the road reaches an intersection with a lease road in Section 2 (T26S R27E). Turn right onto this and travel 2.6 mi , then turn left (West) onto the access road and well location is on the left in .8 miles.

New or Reconstructed Access Roads – (MDP SUPO Pg. 1)

- There will be 1,728.23' of new road construction for this proposal (.79 acres)
- Ditches: See MDP
- Culverts: See MDP
- Road Cuts: See MDP

Location of Existing Wells

- 1-Mile radius map is attached

CHEVRON U.S.A. INC.
HH CE 26 23 FED 001 3H
NMNM 107369
SECTION 35, T25S, R27E
SHL 245' FNL & 1035' FWL

SECTION 23, T25S, R27E
BHL 280' FNL & 1170' FWL

Location of Existing Production Facilities (MDP SUP Pg. 2)

- Facilities: Existing production facilities located in the NE corner of Sec. 35, T26S-R27E where oil and gas sales will take place.
 - Gas compression will occur within the proposed facility boundaries
 - Gas purchaser pipeline is in place at the tank battery.
 - Open top tanks or open containments will be netted.
 - Open vent exhaust stacks will be modified to prevent birds or bats from entering, discourage perching, roosting, and nesting.
 - Facilities will have a secondary containment 1.5 times the holding capacity of largest storage tank.
 - All above ground structures will be painted non-reflective shale green for blending with surrounding environment.
- Pipelines: See Detail
 - Pipelines Include:
 - Pipeline Detail to follow (Flowline, Gas Lift, Temp Water)
 - A ROW will be applied (if necessary; "Cicada Unit" pending) for through the State and BLM. (30' wide)
 - All construction activity will be confined to the approved ROW.
 - Pipeline will run parallel to the road and will stay within approved ROW.

Location and Types of Water Supply (MDP SUPO Pg. 5)

- Existing ponds in Section 2, 9 & 10, T26S-R27E will be utilized for fresh water or recycled water.
- Fresh water will be obtained from a private water source.

Construction Materials (MDP SUPO Pg. 6)

- Caliche will be sourced from a Chevron operated NMSLO pit in S2 NW4 Section 16 T26S R27E, or an alternate private pit in Section 13, T24S R27E in Eddy County, NM.

Methods for Handling Waste

- Drilling fluids and produced oil and water from the well during drilling and completion operations will be stored safely and disposed of properly in an NMOCD approved disposal facility.

CHEVRON U.S.A. INC.

HH CE 26 23 FED 001 3H

NMNM 107369

SECTION 35, T25S, R27E

SHL 245' FNL & 1035' FWL

SECTION 23, T25S, R27E

BHL 280' FNL & 1170' FWL

- Garbage and trash produced during drilling and completion operations will be collected in a trash container and disposed of properly at a state approved disposal facility. All trash on and around the well site will be collected for disposal.
- Human waste and grey water will be properly contained and disposed of properly at a state approved disposal facility.
- After drilling and completion operations, trash, chemicals, salts, frac sand and other waste material will be removed and disposed of properly at a state approved disposal facility.
- The well will be drilled utilizing a closed loop system. Drill cutting will be properly disposed of into steel tanks and taken to an NMOCD approved disposal facility.

Well Site Layout

- Surveyor Plat
 - Exterior well pad dimensions are 495' x 380'
 - Interior well pad dimensions from point of entry (well head) of the well are described on well plat, attached. Total disturbance area needed for construction of well pad will be approximately 4.3 acres
 - Topsoil placement is on the west where interim reclamation is planned to be completed upon completion of well and evaluation of best management practices.
 - Cut and fill: will be minimal.
- Rig Layout (see diagram)

Plans for Surface Reclamation (MDP SUPA Pg. 8)

Interim Reclamation Procedures

- Reclaimed pad size: 250' x 350' (approximately 2 acres)
- Reclaimed pad layout, topsoil location & erosion control features

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HH CE 26 23 FED 001 3H
NMNM 107369
SECTION 35, T25S, R27E
SHL 245' FNL & 1035' FWL

SECTION 23, T25S, R27E
BHL 280' FNL & 1170' FWL

Surface Ownership

- BLM Surface
 - Surface Tenant – Jeff Maley.
- **Nearest Post Office:** Malaga Post Office; 11.4 Miles north

Other Information

- On-site performed by BLM NRS: Paul Murphy 4/19/2018
- Cultural report attached: **MDP** Participating Agreement attached: N/A

Chevron Representatives

Primary point of contact:
Kevin Dickerson
kevin.dickerson@chevron.com
O – 432-687-7104 M – 432-250-4489

LEGEND	
	Proposed Right of Way
	Temp Water Line
	Flowline Cluster
	Gas Lift Flowlines
	Section Line
	Paddy/Fields

R 27 E

Sec. 26

BUREAU OF LAND MANAGEMENT
Proposed 30' ROW (Total Width) ±1,478.11'; ±59.84 Rods, ±1.02 Acres
Proposed Gas Lift Line ±1,478.52'; ±59.49 Rods
Proposed Temp Water Line ±1,497.20'; ±60.74 Rods
Proposed Flowline Cluster ±1,455.94'; ±58.23 Rods

Future
HH CE 35 2 FED 002

T
25
S

Point of Commencement/
Fnd. 2" Iron Pipe w/ Brass
Cap @ the Northwest
Corner of Section 35

Future
HH CE 35 2 FED 001

S 82° 08' 53" E 1,282.25'

30' ROW

Future Access Road

PROPOSED 30' ROW
±1,828.83'; ±110.45, ±1.28 Acres
PROPOSED GAS LIFT LINE
±1,828.04'; ±110.81 Rods
PROPOSED TEMP WATER LINE
±1,823.19'; ±110.49 Rods
PROPOSED FLOWLINE CLUSTER
±1,828.97'; ±110.73 Rods

S 72° 58' 51" W 206.48'
Fnd. 1" Iron Pipe w/ Brass
Cap @ the Southeast
Corner of Section 26

Future
HH CE 26 23 FED 002

Sec. 35

BUREAU OF LAND MANAGEMENT
Proposed 30' ROW (Total Width) ±348.72'; ±21.01 Rods, ±0.24 Acres
Proposed Gas Lift Line ±348.54'; ±21.12 Rods
Proposed Temp Water Line ±325.95'; ±19.75 Rods
Proposed Flowline Cluster ±371.13'; ±22.49 Rods

COURSE	BEARING	DISTANCE
1	N 03° 48' 16" W	194.44'
2	N 60° 34' 44" E	233.25'
3	N 85° 43' 34" E	1398.14'

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Surveyor, do hereby state this plat is true
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PRELIMINARY

THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY
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Robert L. Lestrappes
Registration No. 23008

NOTE: No field work was performed by C.H.
Fenstermaker & Associates, L.L.C. on the proposed
pipelines depicted in these drawings. Pipelines shown
are preliminary and are based on previous survey data
and digitized client-furnished information. Pipeline
positions and distances should be considered
approximate. Following final staking, revised plat will
reflect as-staked pipeline positions, bearings and
distances.

Scale: 1" = 200'

200' 0 100' 200'

DETAIL

Page 1 of 2

CHEVRON U.S.A. INC.
PROPOSED RIGHT OF WAY
HH CE 26 23 FED 001
SECTIONS 26 & 35, T 25S-R27E
EDDY COUNTY, NEW MEXICO



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REVISIONS			
DRAWN BY:	BY:	DATE:	DESCRIPTION:
GDG			
PROJ. MGR:	GDG		
DATE:	07/25/2018		

FILENAME: T:\2018\218781P\DWG\HH CE 26 23 FED 002 FLOWLINE DETAIL.dwg

DISCLAIMER: At this time, C.H. Fenstermaker & Associates, L.L.C. has not performed nor was asked to perform any type of engineering, hydrological modeling, flood plain, or "No Rise" certification analyses, including but not limited to determining whether the project will impact flood hazards in connection with federal/FEMA, state, and/or local laws, ordinances and regulations. Accordingly, Fenstermaker makes no warranty or representation of any kind as to the foregoing issues, and persons or entities using this information shall do so at their own risk.

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3. No field work was performed by C.H. Fenstermaker & Associates, L.L.C. on the proposed pipelines depicted in these drawings. Pipelines shown are preliminary and are based on previous survey data and digitized client-furnished information. Pipeline positions and distances should be considered approximate. Following final staking, revised plans will reflect as-staked pipeline positions, bearings and distances.
4. It is not a boundary survey. As such, this survey does not, nor was intended, to comply with the NSPLPSP minimum standards of practice for a land boundary survey. Only limited measurements were made and lease lines were established and compiled from those measurements and records. This plan is strictly for the use of Chevron U.S.A. Inc. for acquiring permits for oil and gas exploration in the state of New Mexico.

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Registration No. 23006

**METES AND BOUNDS DESCRIPTION OF A
PROPOSED RIGHT OF WAY LOCATED IN
SECTIONS 26 AND 35 OF T25S-R27E
EDDY COUNTY, NEW MEXICO**

HH CE 26 23 FED 001 RIGHT OF WAY

Description of the centerline of a proposed 30 feet wide by 1825.83 feet or 110.63 rods of right of way (15 feet each side of centerline) across Bureau of Land Management property located in Sections 26 and 35 of Township 25 South, Range 27 East, and described as follows:

Commencing at the Northwest corner of said Section 35 Township 25 South Range 27 East at a found 1" iron pipe with brass cap, Thence South 82 degrees 08 minutes 53 seconds East 1,292.35 feet to the Point of Beginning. Said Point of Beginning having the following coordinates: X = 552,315.69, Y = 397,580.89 (New Mexico State Plane Coordinate System, East Zone, NAD 27)

Thence North 03 degrees 46 minutes 16 seconds West 194.44 feet to a point.
Thence North 60 degrees 34 minutes 44 seconds East 152.28 feet to a common Section line of said Sections 25 and 26, T.25S-R.27E.

Thence North 60 degrees 34 minutes 44 seconds East 80.97 feet to a point.
Thence North 85 degrees 43 minutes 34 seconds East 1,398.14 feet to the Point of Ending, having the following coordinates: X = 553,900.32 and Y = 397,993.69 (New Mexico State Plane Coordinate System, East Zone, NAD 27)

The bearings recited herein are oriented to New Mexico State Plane Coordinate System, East Zone, NAD 27.

This description represents a survey made on the ground for a right of way and intended solely for that purpose. This description does not represent a boundary survey.

DETAIL

Page 2 of 2

CHEVRON U.S.A. INC.
PROPOSED RIGHT OF WAY
HH CE 26 23 FED 001
SECTIONS 26 & 35, T 25S-R27E
EDDY COUNTY, NEW MEXICO



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PROJ. MGR: GDG				
DATE: 07/29/2016				

FILENAME: T:\2016\2187619\DWG\HH CE 26 23 FED 002 FLOWLINE DETAIL.dwg



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

PWD Data Report

11/02/2018

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number:

Injection well name:

Assigned injection well API number?

Injection well API number:

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:



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

Bond Info Data Report

11/02/2018

Bond Information

Federal/Indian APD: FED

BLM Bond number: CA0329

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment: