Carlsbad Field Office
OCD Artesia

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Form 3160-3
(March 2012)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: NMNM119754

6. If Indian, Allotee or Tribe Name:

1a. Type of work: ☑ DRILL ☐ REENTER

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

1b. Type of Well: ☐ Oil Well ☑ Gas Well ☐ Other ☑ Single Zone ☐ Multiple Zone

8. Lease Name and Well No.: CB SE 5 32 FED COM 3 2H 321443

2. Name of Operator: CHEVRON USA INCORPORATED 4323

9. API Well No.: 30-015-44995

3a. Address: 6301 Deauville Blvd. Midland TX 79706

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

10. Field and Pool, or Exploratory: PURPLE SAGE / WOLFCAMP (GAS)

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface: SESW / 295 FSL / 1567 FWL / LAT 32.240347 / LONG -104.010123

At proposed prod. zone: NWNW / 180 FNL / 1254 FWL / LAT 32.268105 / LONG -104.011454

11. Sec., T. R. M. or Blk. and Survey or Area: SEC 5 / T24S / R29E / NMP

14. Distance in miles and direction from nearest town or post office*: 3 miles

12. County or Parish: EDDY

13. State: NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any): 330 feet

16. No. of acres in lease: 359.88

17. Spacing Unit dedicated to this well: 640

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.: 500 feet

19. Proposed Depth: 10204 feet / 20278 feet

20. BLM/BIA Bond No. on file: FED: CA0329

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 3015 feet

22. Approximate date work will start*: 05/01/2018

23. Estimated duration: 130 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

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 required by the BLM.

25. Signature	Name *(Printed/Typed)*	Date
(Electronic Submission)	Dorian K Fuentes / Ph: (432)687-7631	12/11/2017

Title: Permitting Specialist

Approved by *(Signature)*	Name *(Printed/Typed)*	Date
(Electronic Submission)	Cody Layton / Ph: (575)234-5959	05/11/2018
Title	**Office**	
Supervisor Multiple Resources	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.

(Continued on page 2)

*(Instructions on page 2)

APPROVED WITH CONDITIONS

R Klein
5-18-2018

Approval Date: 05/11/2018

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.

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 Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

(Continued on page 3)

Approval Date: 05/11/2018

Additional Operator Remarks

Location of Well

1. SHL: SESW / 295 FSL / 1567 FWL / TWSP: 24S / RANGE: 29E / SECTION: 5 / LAT: 32.240347 / LONG: -104.010123 (TVD: 0 feet, MD: 0 feet)
   PPP: SWSW / 330 FSL / 1254 FWL / TWSP: 24S / RANGE: 29E / SECTION: 5 / LAT: 32.240451 / LONG: -104.011135 (TVD: 10204 feet, MD: 20278 feet)
   BHL: NWNW / 180 FNL / 1254 FWL / TWSP: 23S / RANGE: 29E / SECTION: 32 / LAT: 32.268105 / LONG: -104.011454 (TVD: 10204 feet, MD: 20278 feet)

BLM Point of Contact

Name: Sipra Dahal
Title: Legal Instruments Examiner
Phone: 5752345983
Email: sdahal@blm.gov

Approval Date: 05/11/2018

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 Inc**
LEASE NO.:	**NM119754**
WELL NAME & NO.:	**2H – CB SE 5 32 Fed Com**
SURFACE HOLE FOOTAGE:	**295'/S & 1567'/W**
BOTTOM HOLE FOOTAGE	**180'/N & 1254'/W, sec. 32-T23S-R29E**
LOCATION:	**Sec. 5, T. 24 S, R. 29 E**
COUNTY:	**Eddy County, New Mexico**

COA

H2S	○ Yes	◉ No	
Potash	◉ None	○ Secretary	○ R-111-P
Cave/Karst Potential	○ Low	◉ Medium	○ High
Variance	○ None	◉ Flex Hose	○ Other
Wellhead	○ Conventional	◉ Multibowl	○ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ 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

1. The **13-3/8** inch surface casing shall be set at approximately **350** 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:
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 to 9%.**

b. Second stage above DV tool:Cement to surface. If cement does not circulate, contact the appropriate BLM office. **Additional cement maybe required. Excess calculates to 8%.**

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

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
   - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification. **Additional cement maybe required. Excess calculates to 18%.**

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 **5000 (5M)** 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 run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

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

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

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

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

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

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

7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

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

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.

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

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

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    c. Manufacturer representative shall install the test plug for the initial BOP test.
    d. 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 050318

PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Chevron USA Inc
LEASE NO.:	NM119754
WELL NAME & NO.:	2H – CB SE 5 32 Fed Com 3
SURFACE HOLE FOOTAGE:	295'/S & 15967/W
BOTTOM HOLE FOOTAGE	180'/N & 1254'/W, sec.32-T23S-R29E
LOCATION:	Section 5, T. 24 S., R. 29 E.
COUNTY:	Eddy County, New Mexico

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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.

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

** 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.)

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 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 values 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 values, 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 high 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.

Watershed

- The entire well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. 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 berm shall be maintained through the life of the well and 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.

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.

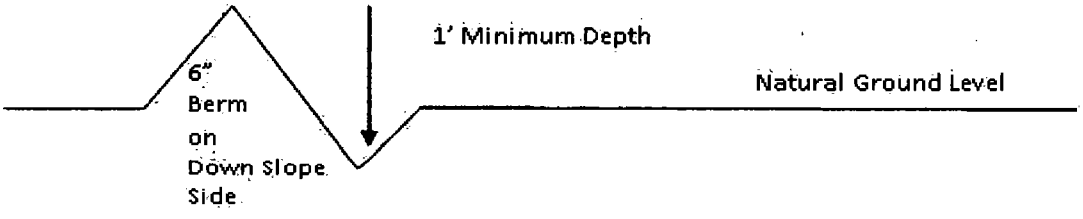
Ditching
Ditching shall be required on both sides of the road.

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 outsloping 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 foot road with 4% road slope: $\frac{400'}{4\%} + 100' = 200'$ 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

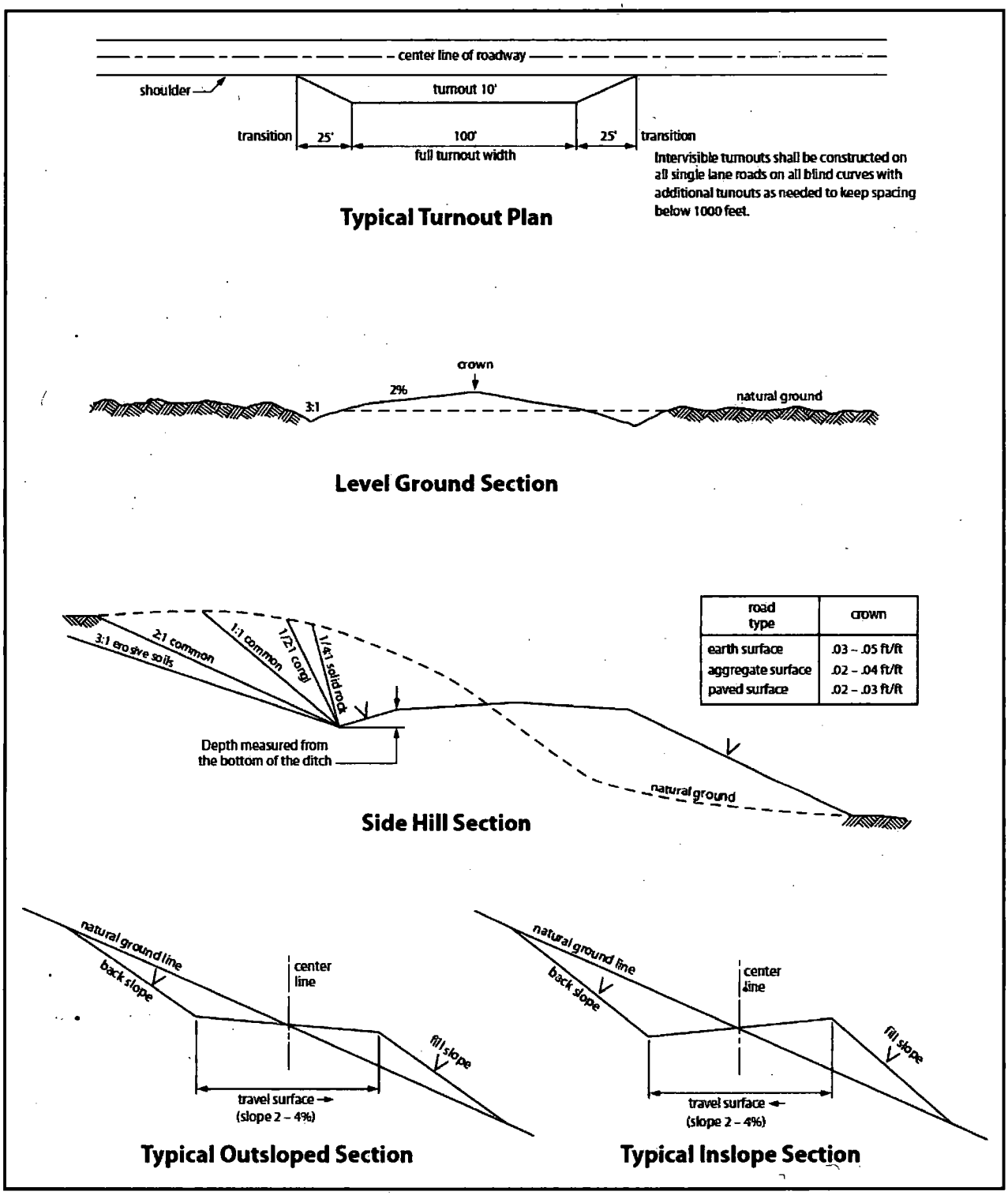


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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).

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 3, for Shallow Sites

The 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 will 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 will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will 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:

Species	lb/acre
Plains Bristlegrass (*Setaria macrostachya*)	1.0
Green Sprangletop (*Leptochloa dubia*)	2.0
Sideoats Grama (*Bouteloua curtipendula)*	5.0

*Pounds of pure live seed:

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

AFMSS

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

Operator Certification Data Report

05/11/2018

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: Dorian K Fuentes **Signed on:** 12/11/2017

Title: Permitting Specialist

Street Address: 6301 Deauville Blvd.

City: Midland **State:** TX **Zip:** 79706

Phone: (432)687-7631

Email address: djvo@chevron.com

Field Representative

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

APD ID: 10400025211 **Submission Date:** 12/11/2017

Operator Name: CHEVRON USA INCORPORATED

Well Name: CB SE 5 32 FED COM 3 **Well Number:** 2H

Well Type: CONVENTIONAL GAS WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - General

APD ID: 10400025211 **Tie to previous NOS?** **Submission Date:** 12/11/2017

BLM Office: CARLSBAD **User:** Dorian K Fuentes **Title:** Permitting Specialist

Federal/Indian APD: FED **Is the first lease penetrated for production Federal or Indian?** FED

Lease number: NMNM119754 **Lease Acres:** 359.88

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? NO **Mater Development Plan name:**

Well in Master SUPO? NO **Master SUPO name:**

Well in Master Drilling Plan? NO **Master Drilling Plan name:**

Well Name: CB SE 5 32 FED COM 3 **Well Number:** 2H **Well API Number:**

Field/Pool or Exploratory? Field and Pool **Field Name:** PURPLE SAGE **Pool Name:** WOLFCAMP (GAS)

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

APD ID: 10400025211 **Submission Date:** 12/11/2017

Operator Name: CHEVRON USA INCORPORATED

Well Name: CB SE 5 32 FED COM 3 **Well Number:** 2H

Well Type: CONVENTIONAL GAS WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	CASTILE	3015	758	758	LIMESTONE,ANHYDRITE,GYPSUM	NONE	No
2	LAMAR	147	2868	2868	LIMESTONE	NONE	No
3	BELL CANYON	109	2906	2906	SANDSTONE	NONE	No
4	CHERRY CANYON	-795	3810	3810	SANDSTONE	NONE	No
5	BRUSHY CANYON	-2009	5024	5024	SANDSTONE	NONE	No
6	BONE SPRING	-3629	6644	6644	LIMESTONE	NONE	No
7	AVALON SAND	-3701	6716	6716	SANDSTONE	NONE	No
8	BONE SPRING 1ST	-4657	7672	7672	SANDSTONE	NONE	No
9	BONE SPRING 2ND	-5423	8438	8438	SANDSTONE	NONE	No
10	BONE SPRING 3RD	-5811	8826	8826	LIMESTONE	NONE	No
11	WOLFCAMP	-6896	9911	9911	MUDSTONE	USEABLE WATER,NATURAL GAS,OIL	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M **Rating Depth:** 10204

Equipment: Chevron will have a minimum of a 5,000 psi rig stack (see proposed schematic) for drill out below surface casing. Wolfcamp is not exposed until drill out of the intermediate casing. Stack will be tested as specified in the attached testing requirements. Batch drilling of the surface, intermediate, and production will take place. A full BOP test will be performed unless approval from the BLM is received otherwise. Flex choke hose will be used for all wells on the pad (see attached specs). BOP test will be conducted by a third party.

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 nippled up and tested after cementing surface casing. Subsequent tests will be performed as needed, not to exceed 30 days. The field report from FMC Technologies and BOP test information will be provided in a subsequent report at the end of the well. Please see the attached wellhead schematic. An installation

Operator Name: CHEVRON USA INCORPORATED

Well Name: CB SE 5 32 FED COM 3 **Well Number:** 2H

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:** CB SE 5 32 FED COM 3 **Number:** 1H 2H 3H

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: 3 Miles **Distance to nearest well:** 500 FT **Distance to lease line:** 330 FT

Reservoir well spacing assigned acres Measurement: 640 Acres

Well plat: CB_SE_5_32_FED_COM_3__2H_C_102_20171211073529.pdf

Well work start Date: 05/01/2018 **Duration:** 130 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	295	FSL	1567	FWL	24S	29E	5	Aliquot SESW	32.240347	-104.010123	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 119754	3015	0	0
KOP Leg #1	295	FSL	1567	FWL	24S	29E	5	Aliquot SESW	32.240347	-104.010123	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 119754	3015	0	0
PPP Leg #1	330	FSL	1254	FWL	24S	29E	5	Aliquot SWSW	32.240451	-104.011135	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 119754	-7189	20278	10204

Operator Name: CHEVRON USA INCORPORATED

Well Name: CB SE 5 32 FED COM 3 **Well Number:** 2H

	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
EXIT Leg #1	330	FNL	1254	FWL	23S	29E	32	Aliquot NWNW	32.267693	-104.011446	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 119754	-7189	20278	10204
BHL Leg #1	180	FNL	1254	FWL	23S	29E	32	Aliquot NWNW	32.268105	-104.011454	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 119754	-7189	20278	10204

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. BOP/BOPE WILL BE TESTED BY AN INDEPENDENT SERVICE COMPANY TO 250 PSI LOW AND THE HIGH PRESSURE INDICATED PER ONSHORE ORDER #2 REQUIREMENTS.

Choke Diagram Attachment:

CB_SE_5_32_FED_COM_3_2H_CHOKE_20171211082623.pdf

BOP Diagram Attachment:

CB_SE_5_32_FED_COM_3_2H_BOPE_20171211082656.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	1.43	5.73	DRY	1.58	DRY	3.42
2	INTERMEDIATE	12.025	9.625	NEW	API	Y	0	9000	0	9000			9000	L-80	43.5	LTC	1.29	2.39	DRY	1.41	DRY	1.88
3	PRODUCTION	8.5	5.5	NEW	API	N	0	20278	0	20278			20278	P-110	20	OTHER - TXP	1.33	1.48	DRY	1.4	DRY	2.39

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

CB_SE_5_32_FED_COM_3_2H_9PT_PLAN_20171211082849.pdf

Operator Name: CHEVRON USA INCORPORATED

Well Name: CB SE 5 32 FED COM 3 **Well Number:** 2H

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

CB_SE_5_32_FED_COM_3_2H_INT_Casing_Specs_20171211083025.pdf

Casing Design Assumptions and Worksheet(s):

CB_SE_5_32_FED_COM_3_2H_INT_Casing_Specs_20171211083036.pdf

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

CB_SE_5_32_FED_COM_3_2H_Prod_Casing_Specs_20171211083203.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	450	311	1.33	14.8	6.37	10	CLASS C	CLASS C
INTERMEDIATE	Lead	2500	0	1600	230	2.41	11.9	2.43	10	H	50/50 POZ CLASS H + EXTENDER, ANTIFOAM, RETARDER, SALT, VISCOSIFIER
INTERMEDIATE	Tail		1600	2500	233	1.33	14.8	1.33	10	C	CLASS C, ANTIFOAM, RETARDER,

Operator Name: CHEVRON USA INCORPORATED

Well Name: CB SE 5 32 FED COM 3 **Well Number:** 2H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
											VISCOSIFIER
INTERMEDIATE	Lead	2500	2500	8000	764	2.43	11.9	13.66	10	C	CLASS C, ANTIFOAM, EXTENDER, SALT, RETARDER
INTERMEDIATE	Tail		8000	9000	310	1.21	15.6	5.34	10	C	CLASS C, RETARDER, DISPERSANT
PRODUCTION	Lead		800	20278	2585	1.2	15.6	7.62	10	CLASS C	50/50 POZ : CLASS C + EXTENDER, ANTIFOAM, DISPERSANT, RETARDER

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 by 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 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 - in compliance with Onshore Order #2.

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

Operator Name: CHEVRON USA INCORPORATED

Well Name: CB SE 5 32 FED COM 3 **Well Number:** 2H

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	10							
450	9000	OIL-BASED MUD	8.8	9.8							
9000	20278	OIL-BASED MUD	9.5	12.5							The mud weights will range depending on the targeted formation. The Wolfcamp A pore pressure will exceed 9.5 ppg, but due to wellbore stability, the mud program will exceed the pore pressure. To control pressure we are using 12.5 and may end up using heavier mud weight to 13.0 to 15.0 ppg.

Section 6 - Test, Logging, Coring

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

Drill Stem Tests are not planned
The logging program will be as follows:
Mudlogs 2 man mudlog INT CSG to TD Drill out of INT CSG
LWD MWD Gamma INT. & PROD. HOLE While Drilling

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

CNL,GR,MWD

Coring operation description for the well:

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

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 6633 **Anticipated Surface Pressure:** 4388.12

Anticipated Bottom Hole Temperature(F): 150

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

CB_SE_5_32_FED_COM_3_2H_H2S_20171211081305.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

CB_SE_5__32_FED_COM_3_2H_RIG_LAYOUT_20171211085306.pdf
CB_SE_5_32_FED_COM_3_2H_DIRECTIONAL_PLAN_20171211085307.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

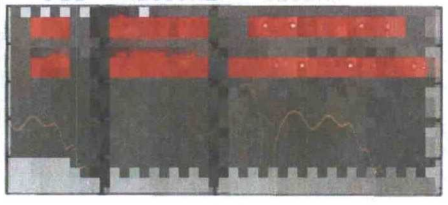
Other Variance attachment:

NIFOLD SCHEMATIC

m Requirements

di tion Hole Sections

: si



ng of BOP equipment.

inimum requirements (rating, type, size, configuration) as shown on or equivalent equipment rated to higher pressures. Additional meet or exceed the minimum pressure rating of the system.

will have backup hand pump for hydraulic actuation in case of loss

150' from the wellhead. These lines will terminate at a location as

will be straight unless turns use tee blocks or are targeted with and reduce vibration. This excludes the line between mud gas

and choke manifold will be full opening and will allow straight nud gas separator and shale shakers.

r ignition

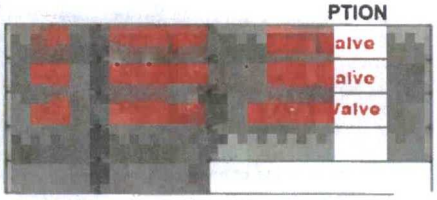
d (no threaded connections like hammer unions)

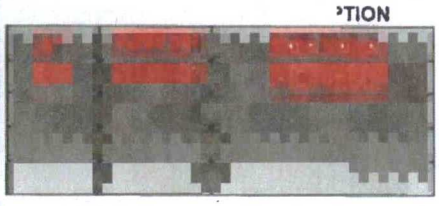
es at any entry or exit point to or from the buffer tank.

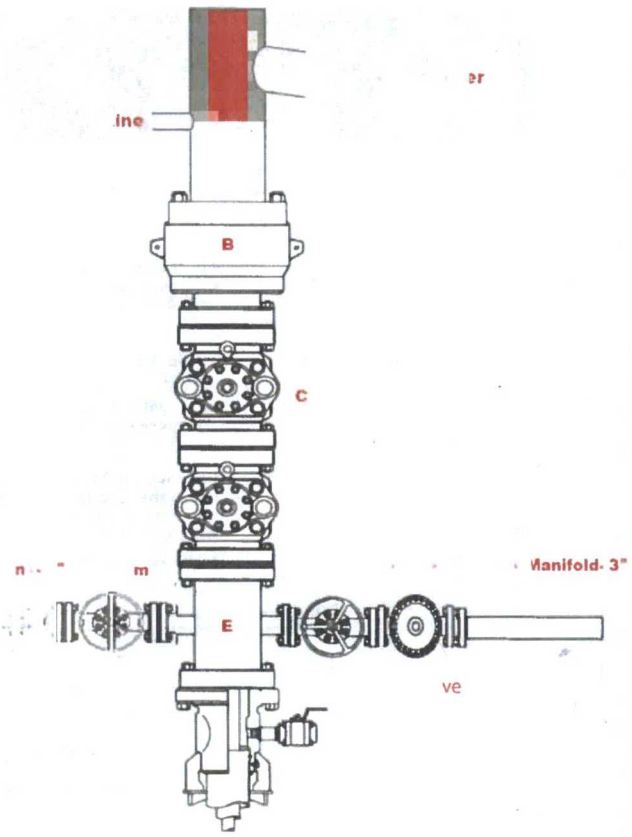
eer

SCHEMATIC

	N/A	Bell Nipple
3"	5,000 psi	Annular
3"	5,000 psi	Pipe Ram
3"	5,000 psi	Blind Ram
3"	5,000 psi	Mud Cross
	As required for each hole size	
	13-5/8" 5K x 11" 5K	
	13-3/8" SOW x 13-5/8" 5K	







equipment.

type, size, configuration) as shown on
to higher pressures. Additional
pressure rating of the system.

ht though flow.

rgeted with running tess,

reventers. Hand wheels will also be

eventer to act as a locking device.

y valve and subs to fit all drill string

Wellname: _____

Representative: _____

Date: _____

S

st

at least once per well prior to low/high
6 months on the same well.

☐ un e below. Bottles may be further charged
re eac b ttl tion
t v t t

um acceptable ting pressure	num acceptable harge pressure	Minimum acceptable precharge pressure
1500 psi	80 psi	700 psi
2000 psi	110 psi	900 psi
3000 psi	110 psi	900 psi

oc led ised), close all
r, in he e precharge
e c id los.... T b p rf ed
w s ss ke l th well

ible the usable flu oumul sys city. Fluid level
ifacturi ecommendations. fl e will r capacity will
se id level be recorded along f rec o be kept on
th f the w

er ve two pende t p io g a umulator bottles) to close the

pumps e available to th t the pumps will automatically start
ure decreases to s co c lir e to
np s ge.

sing unit will be c of he ydraulically-operated choke line valve
ter on the smalle rill hin minutes and obtain a minimum of 200
rge pressure (se be e osing manifold. s and
s ti on location throu nc f well.

n s o vill be lo ated at im l be capable of opening and closing
oke line v

BOPE sys will be re (c the driller and located on the rig
e). Remc ontrols w cl enters.

☐ s s

st

okecked off prior to beginning test

ginning BOPE testing

ed during the BOPE testing and then checked off

led, whenever any seal subject to test pressure is broken,
days intervals. ss s y a 3rd
s c

uipment will be tested to 250 psi (low) and 5,000 psi (high).

ow) and 3,500 psi (high).

ide with all down stream valves open. The check valve will be

h no allowable leak off.

g unit (accumulator) must be function tested as part of the BOP testing

☐ orts and IADC sheet

s oklist is co or along
with any/a B P and accumulator test charts and reports from p rties.

Vellname: _____

sentative: _____

Date: _____

U. S. Steel Tubular Products

9.625 40/0.395 L80 HC

9/29/2015 7:34:21 AM

MECHANICAL PROPERTIES	Pipe	BTC	LTC	STC	
Minimum Yield Strength	80,000	--	--	--	psi
Maximum Yield Strength	95,000	--	--	--	psi
Minimum Tensile Strength	95,000	--	--	--	psi
DIMENSIONS	**Pipe**	**BTC**	**LTC**	**STC**	
Outside Diameter	9.625	10.625	10.625	--	in.
Wall Thickness	0.395	--	--	--	in.
Inside Diameter	8.835	8.835	8.835	--	in.
Standard Drift	8.679	8.679	8.679	--	in.
Alternate Drift	8.750	8.750	8.750	--	in.
Nominal Linear Weight, T&C	40.00	--	--	--	lbs/ft
Plain End Weight	38.97	--	--	--	lbs/ft
PERFORMANCE	**Pipe**	**BTC**	**LTC**	**STC**	
Minimum Collapse Pressure	3,870	3,870	3,870	--	psi
Minimum Internal Yield Pressure	5,750	5,750	5,750	--	psi
Minimum Pipe Body Yield Strength	916,000.00	--	--	--	lbs
Joint Strength	--	947	727	--	1000 lbs
Reference Length	--	15,785	12,119	--	ft
MAKE-UP DATA	**Pipe**	**BTC**	**LTC**	**STC**	
Make-Up Loss	--	4.81	4.75	--	in.
Minimum Make-Up Torque	--	--	5,450	--	ft-lbs
Maximum Make-Up Torque	--	--	9,090	--	ft-lbs

U. S. Steel Tubular Products
10343 Sam Houston Park Dr., #120
Houston, TX 77064

1-877-893-9461
connections@uss.com
www.usstubular.com

1. FORMATION TOPS

The estimated tops of important geologic markers are as follows:

FORMATION	SUB-SEA TVD	KBTVD	MD
Castille		758	
Lamar		2868	
Bell		2906	
Cherry		3810	
Brushy		5024	
Bone Spring Lime		6644	
Avalon		6716	
First Bone Spring Sand		7672	
SBSG Sand		8438	
Third Bone Spring Carbonate		8826	
Third Bone Spring Sand		9558	
Wolfcamp A		9911	
Wolfcamp B		10511	
Lateral TVD Wolfcamp A		10204	20278

Wellhead S

Choke Hos

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

e estimated d pth at which th t p nd bottom of the anticipated water, oil, gas, or oth ected to be encountered a a f llows:

Substance	Formation	Depth
Deepest Expected Base of Fresh Water		450
Water	Castille	758
Water	Cherry Canyon	3810
Oil/Gas	Brushy Canyon	5024
Oil/Gas	First Bone Spring Sand	7672
Oil/Gas	SBSG Sand	8438
Oil/Gas	Third Bone Spring Carbonate	8826
Oil/Gas	Third Bone Spring Sand	9558
Oil/Gas	Wolfcamp A	9911

All shows of fresh water and minerals will ed.

3. BOP EQUIPMENT

Will have a minimum of a 5000 psi rig stack (see proposed schematic). Stack will be t ted as specified in the attached testing requireme s. Batch drilling of the surface, intermediate, and production will take place. A full BOP test will be performed unless approval from BLM is re ived otherwise. Flex choke hose will be used for all wells on the pad (see attached specs) BOP test will be conducted by a third party.

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

[redacted]	To	Hole Size	Csg Size	Weight	Grade	Thread	Condition
	450'	17-1/2"	13-3/8"	54.5 #	J-55	STC	New
	9,000'	12-1/4"	9-5/8"	43.5#	L-80	LTC	New
	20,278'	8-1/2"	5-1/2"	20.0 #	P-110	TXP	New

[redacted]s based on the following "Worst Case" casing design:

450'
9,000' MD
g: 20,258' MD/10,204' TVD (10,204' VS @ 90 deg inc)

[redacted]	Min SF Burst	Min SF Collapse	Min SF Tension	Min SF Tri-Axial
	1.43	5.73	3.42	1.58
	1.29	2.39	1.88	1.41
	1.33	1.48	2.39	1.4

of a group of safety factors that include the f l ng considerations:

B g	Surf	Int	Prod
[redacted] mud in csg	X	X	X
	X		
		X	
[redacted] cted fluid			X
[redacted] ker fluid			X
p: gn			
[redacted] bove TOC	X	X	X
Cementing - Surf P exter P inter	X	X	X
Tension Design			

5. ING PROGRAM

urry						ess	Sacks	Water
Tail						10	311	6.37
Intermediate								
ad	C	0'		11.9	41	10	30	43
age 2 Tail				.8		10	33	1.33
ol		0'						
ge 1 Lead	C		8,000'	11.9	43	10	54	13.66
Stage 1 Tail	C	00'	00'	.6	1.21	10	10	34
Production								
Tail	C		20,278'	.6	1.2	10	85	32

with the shoe

hen every
o intermediate

5 3: COM 3 2H

AM

	Weight	F. Vis	Filtrate
[redacted]	8.3 - 10	32 - 34	NC - NC
	8.8 - 9.8	50 -70	5.0 - 10
	9.5 - 12.5	50 -70	5.0 - 10

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

disposed of in accordance with New Mexico Oil Conservation Division rules and

ed every hours after mudding up to determine, as applicable: density, viscosity, gel

ment shall be in place to detect volume changes indicating loss or gain of circulating fluid essures are anticipated -- a pit volume totalizer (PVT), stroke counter, and flow sensor will

irculating material (LCM) will be onsite to mitigate pressure or lost circulation as hole

TESTING, L N

T ount of testing, logging, and coring are as follows:

a anned.
be as follows:

[redacted]	Interval	Timing	Vendor
	Int Csg to TD	Drillout of Int Csg	TBD
	Int CSG & Prod	While Drilling	TBD

samples are not planned.
be run.

DE

No ta lan.

U. S. Steel Tubular Products

9.625 40/0.395 L80 HC

9/29/2015 7:34:21 AM

MECHANICAL PROPERTIES	Pipe	BTC	LTC	STC	
Minimum Yield Strength	80,000	--	--	--	psi
Maximum Yield Strength	95,000	--	--	--	psi
Minimum Tensile Strength	95,000	--	--	--	psi
DIMENSIONS	**Pipe**	**BTC**	**LTC**	**STC**	
Outside Diameter	9.625	10.625	10.625	--	in.
Wall Thickness	0.395	--	--	--	in.
Inside Diameter	8.835	8.835	8.835	--	in.
Standard Drift	8.679	8.679	8.679	--	in.
Alternate Drift	8.750	8.750	8.750	--	in.
Nominal Linear Weight, T&C	40.00	--	--	--	lbs/ft
Plain End Weight	38.97	--	--	--	lbs/ft
PERFORMANCE	**Pipe**	**BTC**	**LTC**	**STC**	
Minimum Collapse Pressure	3,870	3,870	3,870	--	psi
Minimum Internal Yield Pressure	5,750	5,750	5,750	--	psi
Minimum Pipe Body Yield Strength	916,000.00	--	--	--	lbs
Joint Strength	--	947	727	--	1000 lbs
Reference Length	--	15,785	12,119	--	ft
MAKE-UP DATA	**Pipe**	**BTC**	**LTC**	**STC**	
Make-Up Loss	--	4.81	4.75	--	in.
Minimum Make-Up Torque	--	--	5,450	--	ft-lbs
Maximum Make-Up Torque	--	--	9,090	--	ft-lbs

U. S. Steel Tubular Products
10343 Sam Houston Park Dr., #120
Houston, TX 77064

1-877-893-9461
connections@uss.com
www.usstubular.com

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

May 22 2016

Tenaris

Size: 5.500 in.
Wall: 0.361 in.
Weight: 20.00 lbs/ft
Grade: P110
Min. Wall Thickness: 90.0 %

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

PIPE BODY DATA

GEOMETRY

Nominal OD	**5.500** in.	Nominal Weight	**20.00** lbs/ft	Standard Drift Diameter	**4.653** in.
Nominal ID	**4.778** in.	Wall Thickness	**0.361** in.	Special Drift Diameter	**N/A**
Plain End Weight	**19.83** lbs/ft				

PERFORMANCE

Body Yield Strength	**641** x 1000 lbs	Internal Yield	**13000** psi	SMYS	**110000** psi
Collapse	**11100** psi				

TENARISXP® BTC CONNECTION DATA

GEOMETRY

Connection OD	**6.100** in.	Coupling Length	**9.450** in.	Connection ID	**4.766** in.
Critical Section Area	**5.828** sq. in.	Threads per in.	**5.00**	Make-Up Loss	**4.204** in.

PERFORMANCE

Tension Efficiency	**100** %	Joint Yield Strength	**641** x 1000 lbs	Internal Pressure Capacity(1)	**13000** psi
Structural Compression Efficiency	**100** %	Structural Compression Strength	**641** x 1000 lbs	Structural Bending(2)	**92** °/100 ft
External Pressure Capacity	**11100** psi				

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

H_2S Preparedness and Contingency Plan Summary

Training

MCBU Drilling and Completions H_2S training requirements are intended to define the minimum level of training required for employees, contractors and visitors to enter or perform work at MCBU Drilling and Completions locations that have known concentrations of H_2S.

Awareness Level

Employees and visitors to MCBU Drilling and Completions locations that have known concentrations of H_2S, who are not required to perform work in H_2S areas, will be provided with an awareness level of H_2S training prior to entering any H_2S areas. At a minimum, awareness level training will include:

1. Physical and chemical properties of H_2S
2. Health hazards of H_2S
3. Personal protective equipment
4. Information regarding potential sources of H_2S
5. Alarms and emergency evacuation procedures

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

Advanced Level H_2S Training

Employees and contractors required to work in areas that may contain H_2S will be provided with Advanced Level H_2S training prior to initial assignment. In addition to the Awareness Level requirements, Advanced Level H_2S training will include:

1. H_2S safe work practice procedures;
2. Emergency contingency plan procedures;
3. Methods to detect the presence or release of H_2S (e.g., alarms, monitoring equipment), including hands-on training with direct reading and personal monitoring H_2S equipment.
4. Basic overview of respiratory protective equipment suitable for use in H_2S environments. Note: Employees who work at sites that participate in the Chevron Respirator User program will require separate respirator training as required by the MCBU Respiratory Protection Program;
5. Basic overview of emergency rescue techniques, first aid, CPR and medical evaluation procedures. Employees who may be required to perform "standby" duties are required to receive additional first aid and CPR training, which is not covered in the Advanced Level H_2S training;

6. Proficiency examination covering all course material.

Advanced H_2S training courses will be instructed by personnel who have successfully completed an appropriate H_2S train-the-trainer development course (ANSI/ASSE Z390.1-2006) or who possess significant past experience through educational or work-related background.

H_2S Training Certification

All employees and visitors will be issued an H_2S training certification card (or certificate) upon successful completion of the appropriate H_2S training course. Personnel working in an H_2S environment will carry a current H_2S training certification card as proof of having received the proper training on their person at all times.

Briefing Area

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

H_2S Equipment

Respiratory Protection

a) Six 30 minute SCBAs – 2 at each briefing area and 2 in the Safety Trailer.

b) Eight 5 minute EBAs – 5 in the dog house at the rig floor, 1 at the accumulator, 1 at the shale shakers and 1 at the mud pits.

Visual Warning System

a) One color code sign, displaying all possible conditions, will be placed at the entrance to the location with a flag displaying the current condition.

b) Two windsocks will be on location, one on the dog house and one on the Drill Site Manager's Trailer.

H_2S Preparedness and Contingency Plan Summary

H_2S Detection and Monitoring System

a) H_2S monitoring system (sensor head, warning light and siren) placed throughout rig.
   - Drilling Rig Locations: at a minimum, in the area of the Shale shaker, rig floor, and bell nipple.
   - Workover Rig Locations: at a minimum, in the area of the Cellar, rig floor and circulating tanks or shale shaker.

Well Control Equipment

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

Mud Program

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

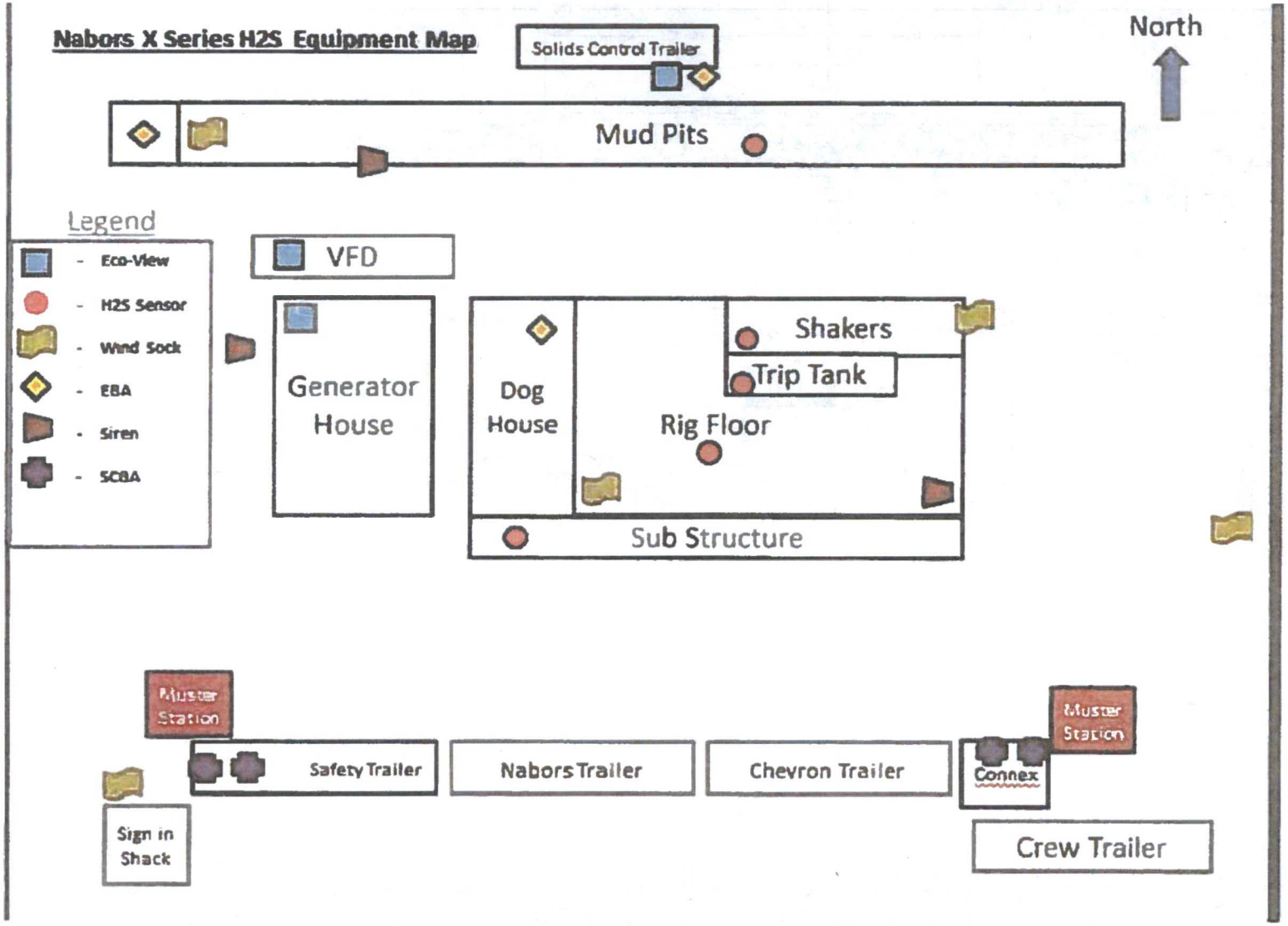
1. Use of a degasser
2. Use of a zinc based mud treatment
3. Increasing mud weight

Public Safety - Emergency Assistance

H_2S Preparedness and Contingency Plan Summary

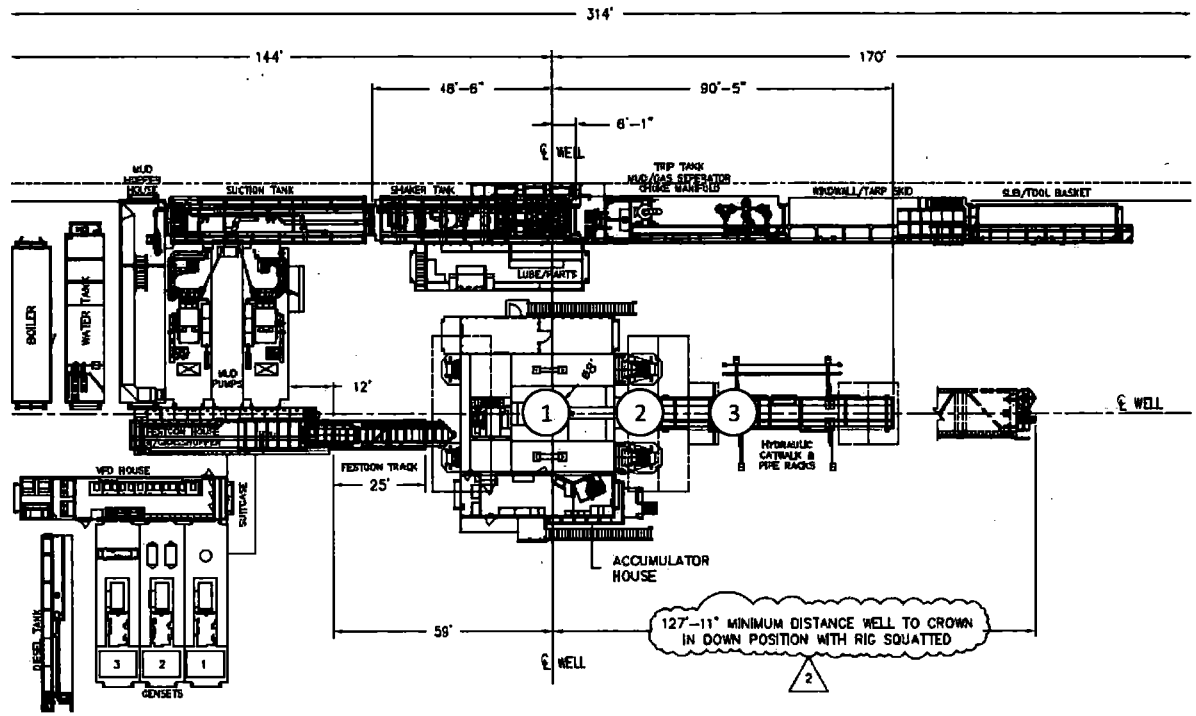
Agency	Telephone Number
Eddy County Sheriff's Department	575-887-7551
Fire Department:	
Carlsbad	575-885-3125
Artesia	575-746-5050
Carlsbad Medical Center	575-887-4100
Eddu County Emergency Management	575-628-5450
Poison Control Center	800-222-1222

H_2S Preparedness and Contingency Plan Summary



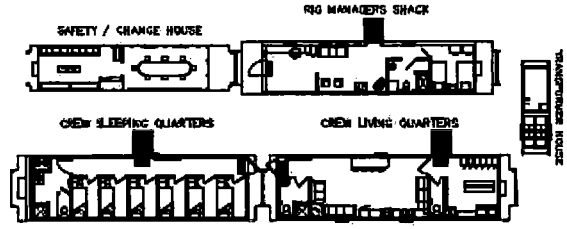
Pump
OBM
OBM
OBM
OBM
OBM
OBM
OBM
Diesel

FW
FW
FW
Brine
Brine
Brine
Trash
Trash



North

Directional
Mud Logger
Mud Engineer
Parts House



DSM
Safety
DSM #2
Gym

Entrance

Planned Wellpath Report

CB SE 5 32 FED COM 3 2H Prelim 1

REFERENCE WELLPATH IDENTIFICATION			
Operator	**Chevron U.S.A. Inc.**	Slot	**CB SE 5 32 FED COM 3 2H**
Area	**Eddy County, NM**	Well	**CB SE 5 32 FED COM 3 2H**
Field	**Hayhurst South(Eddy Co., NM) Nad 27**	Wellbore	**CB SE 5 32 FED COM 3 2H**
Facility	**CB Pad 3**		

REPORT SETUP INFORMATION			
Projection System	**NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet**	Software System	**WellArchitect® 5.0**
North Reference	**Grid**	User	**Tranlam**
Scale	**0.999921**	Report Generated	**12/6/2017** at **2:04:47 PM**
Convergence at slot	**0.18° East**	Database/Source file	**WA_Midland/CB_SE_5_32_FED_COM_3_2H_Prelim_1.xml**

WELLPATH LOCATION	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	25.00	**600083.00**	**451263.00**	32°14'24.808"N	104°00'34.680"W
Facility Reference Pt			**600058.00**	**451263.00**	32°14'24.809"N	104°00'34.971"W
Field Reference Pt			**152400.30**	**0.00**	30°59'42.846"N	105°26'33.659"W

WELLPATH DATUM			
Calculation method	**Minimum curvature**	Rig: ?????? (KB) to Facility Vertical Datum	**3043.00ft**
Horizontal Reference Pt	**Slot**	Rig: ?????? (KB) to Mean Sea Level	**3043.00ft**
Vertical Reference Pt	**Rig: ?????? (KB)**	Rig: ?????? (KB) to Ground Level at Slot (CB SE 5 32 FED COM 3 2H)	**28.00ft**
MD Reference Pt	**Rig: ?????? (KB)**	Section Origin	**N 0.00, E 0.00 ft**
Field Vertical Reference	**Mean Sea Level**	Section Azimuth	**359.27°**

Planned Wellpath Report

CB SE 5 32 FED COM 3 2H Prelim 1

REFERENCE WELLPATH IDENTIFICATION			
Operator	Chevron U.S.A. Inc.	Slot	CB SE 5 32 FED COM 3 2H
Area	Eddy County, NM	Well	CB SE 5 32 FED COM 3 2H
Field	Hayhurst South(Eddy Co., NM) Nad 27	Wellbore	CB SE 5 32 FED COM 3 2H
Facility	CB Pad 3		

WELLPATH DATA (211 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
0.00†	0.000	232.879	0.00	0.00	0.00	0.00	600083.00	451263.00	32°14'24.808"N	104°00'34.680"W	0.00	0.00	0.00	
28.00	0.000	232.879	28.00	0.00	0.00	0.00	600083.00	451263.00	32°14'24.808"N	104°00'34.680"W	0.00	0.00	0.00	Tie On
128.00†	0.000	232.879	128.00	0.00	0.00	0.00	600083.00	451263.00	32°14'24.808"N	104°00'34.680"W	0.00	0.00	0.00	
228.00†	0.000	232.879	228.00	0.00	0.00	0.00	600083.00	451263.00	32°14'24.808"N	104°00'34.680"W	0.00	0.00	0.00	
328.00†	0.000	232.879	328.00	0.00	0.00	0.00	600083.00	451263.00	32°14'24.808"N	104°00'34.680"W	0.00	0.00	0.00	
428.00†	0.000	232.879	428.00	0.00	0.00	0.00	600083.00	451263.00	32°14'24.808"N	104°00'34.680"W	0.00	0.00	0.00	
528.00†	0.000	232.879	528.00	0.00	0.00	0.00	600083.00	451263.00	32°14'24.808"N	104°00'34.680"W	0.00	0.00	0.00	
628.00†	0.000	232.879	628.00	0.00	0.00	0.00	600083.00	451263.00	32°14'24.808"N	104°00'34.680"W	0.00	0.00	0.00	
728.00†	0.000	232.879	728.00	0.00	0.00	0.00	600083.00	451263.00	32°14'24.808"N	104°00'34.680"W	0.00	0.00	0.00	
828.00†	0.000	232.879	828.00	0.00	0.00	0.00	600083.00	451263.00	32°14'24.808"N	104°00'34.680"W	0.00	0.00	0.00	
928.00†	0.000	232.879	928.00	0.00	0.00	0.00	600083.00	451263.00	32°14'24.808"N	104°00'34.680"W	0.00	0.00	0.00	
1000.00	0.000	232.879	1000.00	0.00	0.00	0.00	600083.00	451263.00	32°14'24.808"N	104°00'34.680"W	0.00	0.00	0.00	End of Tangent
1028.00†	0.420	232.879	1028.00	-0.06	-0.06	-0.08	600082.92	451262.94	32°14'24.807"N	104°00'34.681"W	1.50	1.50	-454.00	
1128.00†	1.920	232.879	1127.98	-1.27	-1.29	-1.71	600081.29	451261.71	32°14'24.795"N	104°00'34.700"W	1.50	1.50	0.00	
1228.00†	3.420	232.879	1227.86	-4.04	-4.11	-5.42	600077.58	451258.89	32°14'24.767"N	104°00'34.743"W	1.50	1.50	0.00	
1328.00†	4.920	232.879	1327.60	-8.35	-8.49	-11.22	600071.78	451254.51	32°14'24.724"N	104°00'34.811"W	1.50	1.50	0.00	
1333.33	5.000	232.879	1332.91	-8.62	-8.77	-11.59	600071.41	451254.23	32°14'24.721"N	104°00'34.815"W	1.50	1.50	0.00	End of Build
1428.00†	5.000	232.879	1427.22	-13.52	-13.75	-18.17	600064.83	451249.25	32°14'24.672"N	104°00'34.892"W	0.00	0.00	0.00	
1528.00†	5.000	232.879	1526.84	-18.69	-19.01	-25.12	600057.88	451243.99	32°14'24.621"N	104°00'34.973"W	0.00	0.00	0.00	
1628.00†	5.000	232.879	1626.46	-23.86	-24.27	-32.07	600050.93	451238.73	32°14'24.569"N	104°00'35.054"W	0.00	0.00	0.00	
1728.00†	5.000	232.879	1726.08	-29.03	-29.53	-39.02	600043.99	451233.47	32°14'24.517"N	104°00'35.135"W	0.00	0.00	0.00	
1828.00†	5.000	232.879	1825.69	-34.20	-34.79	-45.97	600037.04	451228.21	32°14'24.465"N	104°00'35.217"W	0.00	0.00	0.00	
1928.00†	5.000	232.879	1925.31	-39.37	-40.05	-52.92	600030.09	451222.95	32°14'24.413"N	104°00'35.298"W	0.00	0.00	0.00	
2028.00†	5.000	232.879	2024.93	-44.54	-45.31	-59.87	600023.14	451217.69	32°14'24.361"N	104°00'35.379"W	0.00	0.00	0.00	
2128.00†	5.000	232.879	2124.55	-49.71	-50.57	-66.82	600016.19	451212.43	32°14'24.309"N	104°00'35.460"W	0.00	0.00	0.00	
2228.00†	5.000	232.879	2224.17	-54.89	-55.83	-73.76	600009.24	451207.18	32°14'24.258"N	104°00'35.541"W	0.00	0.00	0.00	
2328.00†	5.000	232.879	2323.79	-60.06	-61.09	-80.71	600002.29	451201.92	32°14'24.206"N	104°00'35.622"W	0.00	0.00	0.00	
2428.00†	5.000	232.879	2423.41	-65.23	-66.35	-87.66	599995.34	451196.66	32°14'24.154"N	104°00'35.703"W	0.00	0.00	0.00	
2528.00†	5.000	232.879	2523.03	-70.40	-71.61	-94.61	599988.39	451191.40	32°14'24.102"N	104°00'35.784"W	0.00	0.00	0.00	
2628.00†	5.000	232.879	2622.65	-75.57	-76.87	-101.56	599981.45	451186.14	32°14'24.050"N	104°00'35.865"W	0.00	0.00	0.00	

Planned Wellpath Report

CB SE 5 32 FED COM 3 2H Prelim 1

REFERENCE WELLPATH IDENTIFICATION			
Operator	Chevron U.S.A. Inc.	Slot	CB SE 5 32 FED COM 3 2H
Area	Eddy County, NM	Well	CB SE 5 32 FED COM 3 2H
Field	Hayhurst South(Eddy Co., NM) Nad 27	Wellbore	CB SE 5 32 FED COM 3 2H
Facility	CB Pad 3		

WELLPATH DATA (211 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
2728.00†	5.000	232.879	2722.27	-80.74	-82.13	-108.51	599974.50	451180.88	32°14'23.998"N	104°00'35.946"W	0.00	0.00	0.00	
2828.00†	5.000	232.879	2821.89	-85.91	-87.39	-115.46	599967.55	451175.62	32°14'23.947"N	104°00'36.027"W	0.00	0.00	0.00	
2928.00†	5.000	232.879	2921.51	-91.08	-92.65	-122.41	599960.60	451170.36	32°14'23.895"N	104°00'36.109"W	0.00	0.00	0.00	
3028.00†	5.000	232.879	3021.13	-96.25	-97.91	-129.36	599953.65	451165.10	32°14'23.843"N	104°00'36.190"W	0.00	0.00	0.00	
3128.00†	5.000	232.879	3120.75	-101.42	-103.17	-136.31	599946.70	451159.84	32°14'23.791"N	104°00'36.271"W	0.00	0.00	0.00	
3228.00†	5.000	232.879	3220.37	-106.59	-108.43	-143.26	599939.75	451154.58	32°14'23.739"N	104°00'36.352"W	0.00	0.00	0.00	
3328.00†	5.000	232.879	3319.99	-111.76	-113.69	-150.21	599932.80	451149.32	32°14'23.687"N	104°00'36.433"W	0.00	0.00	0.00	
3428.00†	5.000	232.879	3419.61	-116.94	-118.95	-157.16	599925.85	451144.06	32°14'23.636"N	104°00'36.514"W	0.00	0.00	0.00	
3528.00†	5.000	232.879	3519.23	-122.11	-124.21	-164.11	599918.90	451138.80	32°14'23.584"N	104°00'36.595"W	0.00	0.00	0.00	
3628.00†	5.000	232.879	3618.85	-127.28	-129.47	-171.06	599911.96	451133.54	32°14'23.532"N	104°00'36.676"W	0.00	0.00	0.00	
3728.00†	5.000	232.879	3718.46	-132.45	-134.73	-178.01	599905.01	451128.28	32°14'23.480"N	104°00'36.757"W	0.00	0.00	0.00	
3828.00†	5.000	232.879	3818.08	-137.62	-139.99	-184.96	599898.06	451123.03	32°14'23.428"N	104°00'36.838"W	0.00	0.00	0.00	
3928.00†	5.000	232.879	3917.70	-142.79	-145.25	-191.91	599891.11	451117.77	32°14'23.376"N	104°00'36.920"W	0.00	0.00	0.00	
4028.00†	5.000	232.879	4017.32	-147.96	-150.51	-198.86	599884.16	451112.51	32°14'23.325"N	104°00'37.001"W	0.00	0.00	0.00	
4128.00†	5.000	232.879	4116.94	-153.13	-155.77	-205.81	599877.21	451107.25	32°14'23.273"N	104°00'37.082"W	0.00	0.00	0.00	
4228.00†	5.000	232.879	4216.56	-158.30	-161.03	-212.76	599870.26	451101.99	32°14'23.221"N	104°00'37.163"W	0.00	0.00	0.00	
4328.00†	5.000	232.879	4316.18	-163.47	-166.29	-219.70	599863.31	451096.73	32°14'23.169"N	104°00'37.244"W	0.00	0.00	0.00	
4428.00†	5.000	232.879	4415.80	-168.64	-171.54	-226.65	599856.36	451091.47	32°14'23.117"N	104°00'37.325"W	0.00	0.00	0.00	
4528.00†	5.000	232.879	4515.42	-173.81	-176.80	-233.60	599849.42	451086.21	32°14'23.065"N	104°00'37.406"W	0.00	0.00	0.00	
4628.00†	5.000	232.879	4615.04	-178.98	-182.06	-240.55	599842.47	451080.95	32°14'23.013"N	104°00'37.487"W	0.00	0.00	0.00	
4728.00†	5.000	232.879	4714.66	-184.16	-187.32	-247.50	599835.52	451075.69	32°14'22.962"N	104°00'37.568"W	0.00	0.00	0.00	
4828.00†	5.000	232.879	4814.28	-189.33	-192.58	-254.45	599828.57	451070.43	32°14'22.910"N	104°00'37.649"W	0.00	0.00	0.00	
4928.00†	5.000	232.879	4913.90	-194.50	-197.84	-261.40	599821.62	451065.17	32°14'22.858"N	104°00'37.730"W	0.00	0.00	0.00	
5028.00†	5.000	232.879	5013.52	-199.67	-203.10	-268.35	599814.67	451059.91	32°14'22.806"N	104°00'37.812"W	0.00	0.00	0.00	
5128.00†	5.000	232.879	5113.14	-204.84	-208.36	-275.30	599807.72	451054.65	32°14'22.754"N	104°00'37.893"W	0.00	0.00	0.00	
5228.00†	5.000	232.879	5212.76	-210.01	-213.62	-282.25	599800.77	451049.39	32°14'22.702"N	104°00'37.974"W	0.00	0.00	0.00	
5328.00†	5.000	232.879	5312.38	-215.18	-218.88	-289.20	599793.82	451044.13	32°14'22.651"N	104°00'38.055"W	0.00	0.00	0.00	
5428.00†	5.000	232.879	5412.00	-220.35	-224.14	-296.15	599786.87	451038.88	32°14'22.599"N	104°00'38.136"W	0.00	0.00	0.00	
5454.32	5.000	232.879	5438.22	-221.71	-225.53	-297.98	599785.05	451037.49	32°14'22.585"N	104°00'38.157"W	0.00	0.00	0.00	End of Tangent
5528.00†	3.895	232.879	5511.67	-225.10	-228.98	-302.53	599780.49	451034.04	32°14'22.551"N	104°00'38.210"W	1.50	-1.50	0.00	

Planned Wellpath Report

CB SE 5 32 FED COM 3 2H Prelim 1

REFERENCE WELLPATH IDENTIFICATION			
Operator	Chevron U.S.A. Inc.	Slot	CB SE 5 32 FED COM 3 2H
Area	Eddy County, NM	Well	CB SE 5 32 FED COM 3 2H
Field	Hayhurst South(Eddy Co., NM) Nad 27	Wellbore	CB SE 5 32 FED COM 3 2H
Facility	CB Pad 3		

WELLPATH DATA (211 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
5628.00†	2.395	232.879	5611.52	-228.36	-232.29	-306.91	599776.12	451030.73	32°14'22.518"N	104°00'38.261"W	1.50	-1.50	0.00	
5728.00†	0.895	232.879	5711.47	-230.06	-234.02	-309.20	599773.83	451029.00	32°14'22.501"N	104°00'38.288"W	1.50	-1.50	0.00	
5787.65	0.000	359.271	5771.13	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	1.50	-1.50	213.10	End of Drop
5828.00†	0.000	359.271	5811.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
5928.00†	0.000	359.271	5911.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
6028.00†	0.000	359.271	6011.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
6128.00†	0.000	359.271	6111.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
6228.00†	0.000	359.271	6211.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
6328.00†	0.000	359.271	6311.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
6428.00†	0.000	359.271	6411.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
6528.00†	0.000	359.271	6511.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
6628.00†	0.000	359.271	6611.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
6728.00†	0.000	359.271	6711.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
6828.00†	0.000	359.271	6811.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
6928.00†	0.000	359.271	6911.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
7028.00†	0.000	359.271	7011.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
7128.00†	0.000	359.271	7111.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
7228.00†	0.000	359.271	7211.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
7328.00†	0.000	359.271	7311.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
7428.00†	0.000	359.271	7411.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
7528.00†	0.000	359.271	7511.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
7628.00†	0.000	359.271	7611.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
7728.00†	0.000	359.271	7711.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
7828.00†	0.000	359.271	7811.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
7928.00†	0.000	359.271	7911.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
8028.00†	0.000	359.271	8011.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
8128.00†	0.000	359.271	8111.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
8228.00†	0.000	359.271	8211.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
8328.00†	0.000	359.271	8311.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
8428.00†	0.000	359.271	8411.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	

Planned Wellpath Report

CB SE 5 32 FED COM 3 2H Prelim 1

BAKER HUGHES a GE company

REFERENCE WELLPATH IDENTIFICATION			
Operator	Chevron U.S.A. Inc.	Slot	CB SE 5 32 FED COM 3 2H
Area	Eddy County, NM	Well	CB SE 5 32 FED COM 3 2H
Field	Hayhurst South(Eddy Co., NM) Nad 27	Wellbore	CB SE 5 32 FED COM 3 2H
Facility	CB Pad 3		

WELLPATH DATA (211 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
8528.00†	0.000	359.271	8511.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
8628.00†	0.000	359.271	8611.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
8728.00†	0.000	359.271	8711.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
8828.00†	0.000	359.271	8811.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
8928.00†	0.000	359.271	8911.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
9028.00†	0.000	359.271	9011.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
9128.00†	0.000	359.271	9111.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
9228.00†	0.000	359.271	9211.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
9328.00†	0.000	359.271	9311.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
9428.00†	0.000	359.271	9411.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
9528.00†	0.000	359.271	9511.47	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	
9617.57	0.000	359.271	9601.04	-230.34	-234.30	-309.57	599773.46	451028.72	32°14'22.499"N	104°00'38.292"W	0.00	0.00	0.00	End of Tangent
9628.00†	1.043	359.271	9611.47	-230.24	-234.20	-309.57	599773.46	451028.81	32°14'22.500"N	104°00'38.293"W	10.00	10.00	-6.99	
9728.00†	11.043	359.271	9710.79	-219.73	-223.69	-309.70	599773.32	451039.33	32°14'22.604"N	104°00'38.294"W	10.00	10.00	0.00	
9828.00†	21.043	359.271	9806.77	-192.13	-196.09	-310.05	599772.97	451066.92	32°14'22.877"N	104°00'38.297"W	10.00	10.00	0.00	
9928.00†	31.043	359.271	9896.51	-148.28	-152.25	-310.61	599772.41	451110.77	32°14'23.311"N	104°00'38.302"W	10.00	10.00	0.00	
10028.00†	41.043	359.271	9977.26	-89.51	-93.49	-311.36	599771.67	451169.52	32°14'23.892"N	104°00'38.308"W	10.00	10.00	0.00	
10128.00†	51.043	359.271	10046.58	-17.62	-21.60	-312.28	599770.75	451241.40	32°14'24.603"N	104°00'38.317"W	10.00	10.00	0.00	
10228.00†	61.043	359.271	10102.37	65.22	61.24	-313.33	599769.70	451324.23	32°14'25.423"N	104°00'38.326"W	10.00	10.00	0.00	
10328.00†	71.043	359.271	10142.92	156.49	152.50	-314.49	599768.54	451415.49	32°14'26.326"N	104°00'38.336"W	10.00	10.00	0.00	
10428.00†	81.043	359.271	10167.01	253.42	249.41	-315.72	599767.30	451512.39	32°14'27.285"N	104°00'38.347"W	10.00	10.00	0.00	
10517.57	90.000	359.271	10174.00	342.62	338.61	-316.86	599766.17	451601.58	32°14'28.168"N	104°00'38.357"W	10.00	10.00	0.00	End of Build
10528.00†	90.000	359.271	10174.00	353.05	349.04	-316.99	599766.03	451612.01	32°14'28.271"N	104°00'38.359"W	0.00	0.00	0.00	
10628.00†	90.000	359.271	10174.00	453.05	449.03	-318.26	599764.76	451712.00	32°14'29.261"N	104°00'38.370"W	0.00	0.00	0.00	
10728.00†	90.000	359.271	10174.00	553.05	549.03	-319.54	599763.49	451811.98	32°14'30.250"N	104°00'38.381"W	0.00	0.00	0.00	
10828.00†	90.000	359.271	10174.00	653.05	649.02	-320.81	599762.22	451911.96	32°14'31.240"N	104°00'38.392"W	0.00	0.00	0.00	
10928.00†	90.000	359.271	10174.00	753.05	749.01	-322.08	599760.95	452011.95	32°14'32.229"N	104°00'38.404"W	0.00	0.00	0.00	
11028.00†	90.000	359.271	10174.00	853.05	849.00	-323.35	599759.67	452111.93	32°14'33.219"N	104°00'38.415"W	0.00	0.00	0.00	
11128.00†	90.000	359.271	10174.00	953.05	948.99	-324.62	599758.40	452211.92	32°14'34.208"N	104°00'38.426"W	0.00	0.00	0.00	
11228.00†	90.000	359.271	10174.00	1053.05	1048.99	-325.90	599757.13	452311.90	32°14'35.198"N	104°00'38.438"W	0.00	0.00	0.00	

Planned Wellpath Report

CB SE 5 32 FED COM 3 2H Prelim 1

BAKER HUGHES a GE company

REFERENCE WELLPATH IDENTIFICATION			
Operator	Chevron U.S.A. Inc.	Slot	CB SE 5 32 FED COM 3 2H
Area	Eddy County, NM	Well	CB SE 5 32 FED COM 3 2H
Field	Hayhurst South(Eddy Co., NM) Nad 27	Wellbore	CB SE 5 32 FED COM 3 2H
Facility	CB Pad 3		

WELLPATH DATA (211 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
11328.00†	90.000	359.271	10174.00	1153.05	1148.98	-327.17	599755.86	452411.88	32°14'36.187"N	104°00'38.449"W	0.00	0.00	0.00	
11428.00†	90.000	359.271	10174.00	1253.05	1248.97	-328.44	599754.58	452511.87	32°14'37.177"N	104°00'38.460"W	0.00	0.00	0.00	
11528.00†	90.000	359.271	10174.00	1353.05	1348.96	-329.71	599753.31	452611.85	32°14'38.166"N	104°00'38.472"W	0.00	0.00	0.00	
11628.00†	90.000	359.271	10174.00	1453.05	1448.95	-330.99	599752.04	452711.83	32°14'39.156"N	104°00'38.483"W	0.00	0.00	0.00	
11728.00†	90.000	359.271	10174.00	1553.05	1548.94	-332.26	599750.77	452811.82	32°14'40.145"N	104°00'38.494"W	0.00	0.00	0.00	
11828.00†	90.000	359.271	10174.00	1653.05	1648.94	-333.53	599749.50	452911.80	32°14'41.135"N	104°00'38.506"W	0.00	0.00	0.00	
11928.00†	90.000	359.271	10174.00	1753.05	1748.93	-334.80	599748.22	453011.79	32°14'42.124"N	104°00'38.517"W	0.00	0.00	0.00	
12028.00†	90.000	359.271	10174.00	1853.05	1848.92	-336.08	599746.95	453111.77	32°14'43.114"N	104°00'38.528"W	0.00	0.00	0.00	
12128.00†	90.000	359.271	10174.00	1953.05	1948.91	-337.35	599745.68	453211.75	32°14'44.103"N	104°00'38.540"W	0.00	0.00	0.00	
12228.00†	90.000	359.271	10174.00	2053.05	2048.90	-338.62	599744.41	453311.74	32°14'45.093"N	104°00'38.551"W	0.00	0.00	0.00	
12328.00†	90.000	359.271	10174.00	2153.05	2148.90	-339.89	599743.13	453411.72	32°14'46.082"N	104°00'38.562"W	0.00	0.00	0.00	
12428.00†	90.000	359.271	10174.00	2253.05	2248.89	-341.16	599741.86	453511.70	32°14'47.072"N	104°00'38.574"W	0.00	0.00	0.00	
12528.00†	90.000	359.271	10174.00	2353.05	2348.88	-342.44	599740.59	453611.69	32°14'48.061"N	104°00'38.585"W	0.00	0.00	0.00	
12628.00†	90.000	359.271	10174.00	2453.05	2448.87	-343.71	599739.32	453711.67	32°14'49.051"N	104°00'38.596"W	0.00	0.00	0.00	
12728.00†	90.000	359.271	10174.00	2553.05	2548.86	-344.98	599738.05	453811.66	32°14'50.040"N	104°00'38.607"W	0.00	0.00	0.00	
12828.00†	90.000	359.271	10174.00	2653.05	2648.86	-346.25	599736.77	453911.64	32°14'51.030"N	104°00'38.619"W	0.00	0.00	0.00	
12928.00†	90.000	359.271	10174.00	2753.05	2748.85	-347.53	599735.50	454011.62	32°14'52.019"N	104°00'38.630"W	0.00	0.00	0.00	
13028.00†	90.000	359.271	10174.00	2853.05	2848.84	-348.80	599734.23	454111.61	32°14'53.009"N	104°00'38.641"W	0.00	0.00	0.00	
13128.00†	90.000	359.271	10174.00	2953.05	2948.83	-350.07	599732.96	454211.59	32°14'53.998"N	104°00'38.653"W	0.00	0.00	0.00	
13228.00†	90.000	359.271	10174.00	3053.05	3048.82	-351.34	599731.69	454311.57	32°14'54.988"N	104°00'38.664"W	0.00	0.00	0.00	
13328.00†	90.000	359.271	10174.00	3153.05	3148.82	-352.62	599730.41	454411.56	32°14'55.977"N	104°00'38.675"W	0.00	0.00	0.00	
13428.00†	90.000	359.271	10174.00	3253.05	3248.81	-353.89	599729.14	454511.54	32°14'56.967"N	104°00'38.687"W	0.00	0.00	0.00	
13528.00†	90.000	359.271	10174.00	3353.05	3348.80	-355.16	599727.87	454611.53	32°14'57.956"N	104°00'38.698"W	0.00	0.00	0.00	
13628.00†	90.000	359.271	10174.00	3453.05	3448.79	-356.43	599726.60	454711.51	32°14'58.946"N	104°00'38.709"W	0.00	0.00	0.00	
13728.00†	90.000	359.271	10174.00	3553.05	3548.78	-357.71	599725.32	454811.49	32°14'59.935"N	104°00'38.721"W	0.00	0.00	0.00	
13828.00†	90.000	359.271	10174.00	3653.05	3648.77	-358.98	599724.05	454911.48	32°15'00.925"N	104°00'38.732"W	0.00	0.00	0.00	
13928.00†	90.000	359.271	10174.00	3753.05	3748.77	-360.25	599722.78	455011.46	32°15'01.914"N	104°00'38.743"W	0.00	0.00	0.00	
14028.00†	90.000	359.271	10174.00	3853.05	3848.76	-361.52	599721.51	455111.45	32°15'02.904"N	104°00'38.755"W	0.00	0.00	0.00	
14128.00†	90.000	359.271	10174.00	3953.05	3948.75	-362.79	599720.24	455211.43	32°15'03.893"N	104°00'38.766"W	0.00	0.00	0.00	
14228.00†	90.000	359.271	10174.00	4053.05	4048.74	-364.07	599718.96	455311.41	32°15'04.883"N	104°00'38.777"W	0.00	0.00	0.00	

Planned Wellpath Report

CB SE 5 32 FED COM 3 2H Prelim 1

BAKER HUGHES a GE company

REFERENCE WELLPATH IDENTIFICATION			
Operator	Chevron U.S.A. Inc.	Slot	CB SE 5 32 FED COM 3 2H
Area	Eddy County, NM	Well	CB SE 5 32 FED COM 3 2H
Field	Hayhurst South(Eddy Co., NM) Nad 27	Wellbore	CB SE 5 32 FED COM 3 2H
Facility	CB Pad 3		

WELLPATH DATA (211 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
14328.00†	90.000	359.271	10174.00	4153.05	4148.73	-365.34	599717.69	455411.40	32°15'05.872"N	104°00'38.789"W	0.00	0.00	0.00	
14428.00†	90.000	359.271	10174.00	4253.05	4248.73	-366.61	599716.42	455511.38	32°15'06.862"N	104°00'38.800"W	0.00	0.00	0.00	
14528.00†	90.000	359.271	10174.00	4353.05	4348.72	-367.88	599715.15	455611.36	32°15'07.851"N	104°00'38.811"W	0.00	0.00	0.00	
14628.00†	90.000	359.271	10174.00	4453.05	4448.71	-369.16	599713.87	455711.35	32°15'08.841"N	104°00'38.822"W	0.00	0.00	0.00	
14728.00†	90.000	359.271	10174.00	4553.05	4548.70	-370.43	599712.60	455811.33	32°15'09.830"N	104°00'38.834"W	0.00	0.00	0.00	
14828.00†	90.000	359.271	10174.00	4653.05	4648.69	-371.70	599711.33	455911.32	32°15'10.820"N	104°00'38.845"W	0.00	0.00	0.00	
14928.00†	90.000	359.271	10174.00	4753.05	4748.69	-372.97	599710.06	456011.30	32°15'11.809"N	104°00'38.856"W	0.00	0.00	0.00	
15028.00†	90.000	359.271	10174.00	4853.05	4848.68	-374.25	599708.79	456111.28	32°15'12.799"N	104°00'38.868"W	0.00	0.00	0.00	
15128.00†	90.000	359.271	10174.00	4953.05	4948.67	-375.52	599707.51	456211.27	32°15'13.788"N	104°00'38.879"W	0.00	0.00	0.00	
15228.00†	90.000	359.271	10174.00	5053.05	5048.66	-376.79	599706.24	456311.25	32°15'14.778"N	104°00'38.890"W	0.00	0.00	0.00	
15328.00†	90.000	359.271	10174.00	5153.05	5148.65	-378.06	599704.97	456411.23	32°15'15.767"N	104°00'38.902"W	0.00	0.00	0.00	
15428.00†	90.000	359.271	10174.00	5253.05	5248.65	-379.33	599703.70	456511.22	32°15'16.757"N	104°00'38.913"W	0.00	0.00	0.00	
15528.00†	90.000	359.271	10174.00	5353.05	5348.64	-380.61	599702.42	456611.20	32°15'17.746"N	104°00'38.924"W	0.00	0.00	0.00	
15628.00†	90.000	359.271	10174.00	5453.05	5448.63	-381.88	599701.15	456711.19	32°15'18.736"N	104°00'38.936"W	0.00	0.00	0.00	
15728.00†	90.000	359.271	10174.00	5553.05	5548.62	-383.15	599699.88	456811.17	32°15'19.725"N	104°00'38.947"W	0.00	0.00	0.00	
15828.00†	90.000	359.271	10174.00	5653.05	5648.61	-384.42	599698.61	456911.15	32°15'20.715"N	104°00'38.958"W	0.00	0.00	0.00	
15928.00†	90.000	359.271	10174.00	5753.05	5748.60	-385.70	599697.34	457011.14	32°15'21.704"N	104°00'38.970"W	0.00	0.00	0.00	
16028.00†	90.000	359.271	10174.00	5853.05	5848.60	-386.97	599696.06	457111.12	32°15'22.694"N	104°00'38.981"W	0.00	0.00	0.00	
16128.00†	90.000	359.271	10174.00	5953.05	5948.59	-388.24	599694.79	457211.10	32°15'23.683"N	104°00'38.992"W	0.00	0.00	0.00	
16228.00†	90.000	359.271	10174.00	6053.05	6048.58	-389.51	599693.52	457311.09	32°15'24.673"N	104°00'39.004"W	0.00	0.00	0.00	
16328.00†	90.000	359.271	10174.00	6153.05	6148.57	-390.79	599692.25	457411.07	32°15'25.662"N	104°00'39.015"W	0.00	0.00	0.00	
16428.00†	90.000	359.271	10174.00	6253.05	6248.56	-392.06	599690.97	457511.06	32°15'26.652"N	104°00'39.026"W	0.00	0.00	0.00	
16528.00†	90.000	359.271	10174.00	6353.05	6348.56	-393.33	599689.70	457611.04	32°15'27.641"N	104°00'39.037"W	0.00	0.00	0.00	
16628.00†	90.000	359.271	10174.00	6453.05	6448.55	-394.60	599688.43	457711.02	32°15'28.630"N	104°00'39.049"W	0.00	0.00	0.00	
16728.00†	90.000	359.271	10174.00	6553.05	6548.54	-395.87	599687.16	457811.01	32°15'29.620"N	104°00'39.060"W	0.00	0.00	0.00	
16828.00†	90.000	359.271	10174.00	6653.05	6648.53	-397.15	599685.89	457910.99	32°15'30.609"N	104°00'39.071"W	0.00	0.00	0.00	
16928.00†	90.000	359.271	10174.00	6753.05	6748.52	-398.42	599684.61	458010.97	32°15'31.599"N	104°00'39.083"W	0.00	0.00	0.00	
17028.00†	90.000	359.271	10174.00	6853.05	6848.52	-399.69	599683.34	458110.96	32°15'32.588"N	104°00'39.094"W	0.00	0.00	0.00	
17128.00†	90.000	359.271	10174.00	6953.05	6948.51	-400.96	599682.07	458210.94	32°15'33.578"N	104°00'39.105"W	0.00	0.00	0.00	
17228.00†	90.000	359.271	10174.00	7053.05	7048.50	-402.24	599680.80	458310.93	32°15'34.567"N	104°00'39.117"W	0.00	0.00	0.00	

Planned Wellpath Report

CB SE 5 32 FED COM 3 2H Prelim 1

REFERENCE WELLPATH IDENTIFICATION			
Operator	Chevron U.S.A. Inc.	Slot	CB SE 5 32 FED COM 3 2H
Area	Eddy County, NM	Well	CB SE 5 32 FED COM 3 2H
Field	Hayhurst South(Eddy Co., NM) Nad 27	Wellbore	CB SE 5 32 FED COM 3 2H
Facility	CB Pad 3		

WELLPATH DATA (211 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
17328.00†	90.000	359.271	10174.00	7153.05	7148.49	-403.51	599679.52	458410.91	32°15'35.557"N	104°00'39.128"W	0.00	0.00	0.00	
17428.00†	90.000	359.271	10174.00	7253.05	7248.48	-404.78	599678.25	458510.89	32°15'36.546"N	104°00'39.139"W	0.00	0.00	0.00	
17528.00†	90.000	359.271	10174.00	7353.05	7348.48	-406.05	599676.98	458610.88	32°15'37.536"N	104°00'39.151"W	0.00	0.00	0.00	
17628.00†	90.000	359.271	10174.00	7453.05	7448.47	-407.33	599675.71	458710.86	32°15'38.525"N	104°00'39.162"W	0.00	0.00	0.00	
17728.00†	90.000	359.271	10174.00	7553.05	7548.46	-408.60	599674.44	458810.84	32°15'39.515"N	104°00'39.173"W	0.00	0.00	0.00	
17828.00†	90.000	359.271	10174.00	7653.05	7648.45	-409.87	599673.16	458910.83	32°15'40.504"N	104°00'39.185"W	0.00	0.00	0.00	
17928.00†	90.000	359.271	10174.00	7753.05	7748.44	-411.14	599671.89	459010.81	32°15'41.494"N	104°00'39.196"W	0.00	0.00	0.00	
18028.00†	90.000	359.271	10174.00	7853.05	7848.43	-412.41	599670.62	459110.80	32°15'42.483"N	104°00'39.207"W	0.00	0.00	0.00	
18128.00†	90.000	359.271	10174.00	7953.05	7948.43	-413.69	599669.35	459210.78	32°15'43.473"N	104°00'39.219"W	0.00	0.00	0.00	
18228.00†	90.000	359.271	10174.00	8053.05	8048.42	-414.96	599668.07	459310.76	32°15'44.462"N	104°00'39.230"W	0.00	0.00	0.00	
18328.00†	90.000	359.271	10174.00	8153.05	8148.41	-416.23	599666.80	459410.75	32°15'45.452"N	104°00'39.241"W	0.00	0.00	0.00	
18428.00†	90.000	359.271	10174.00	8253.05	8248.40	-417.50	599665.53	459510.73	32°15'46.441"N	104°00'39.253"W	0.00	0.00	0.00	
18528.00†	90.000	359.271	10174.00	8353.05	8348.39	-418.78	599664.26	459610.71	32°15'47.431"N	104°00'39.264"W	0.00	0.00	0.00	
18628.00†	90.000	359.271	10174.00	8453.05	8448.39	-420.05	599662.99	459710.70	32°15'48.420"N	104°00'39.275"W	0.00	0.00	0.00	
18728.00†	90.000	359.271	10174.00	8553.05	8548.38	-421.32	599661.71	459810.68	32°15'49.410"N	104°00'39.286"W	0.00	0.00	0.00	
18828.00†	90.000	359.271	10174.00	8653.05	8648.37	-422.59	599660.44	459910.67	32°15'50.399"N	104°00'39.298"W	0.00	0.00	0.00	
18928.00†	90.000	359.271	10174.00	8753.05	8748.36	-423.87	599659.17	460010.65	32°15'51.389"N	104°00'39.309"W	0.00	0.00	0.00	
19028.00†	90.000	359.271	10174.00	8853.05	8848.35	-425.14	599657.90	460110.63	32°15'52.378"N	104°00'39.320"W	0.00	0.00	0.00	
19128.00†	90.000	359.271	10174.00	8953.05	8948.35	-426.41	599656.62	460210.62	32°15'53.368"N	104°00'39.332"W	0.00	0.00	0.00	
19228.00†	90.000	359.271	10174.00	9053.05	9048.34	-427.68	599655.35	460310.60	32°15'54.357"N	104°00'39.343"W	0.00	0.00	0.00	
19328.00†	90.000	359.271	10174.00	9153.05	9148.33	-428.95	599654.08	460410.58	32°15'55.347"N	104°00'39.354"W	0.00	0.00	0.00	
19428.00†	90.000	359.271	10174.00	9253.05	9248.32	-430.23	599652.81	460510.57	32°15'56.336"N	104°00'39.366"W	0.00	0.00	0.00	
19528.00†	90.000	359.271	10174.00	9353.05	9348.31	-431.50	599651.54	460610.55	32°15'57.326"N	104°00'39.377"W	0.00	0.00	0.00	
19628.00†	90.000	359.271	10174.00	9453.05	9448.31	-432.77	599650.26	460710.54	32°15'58.315"N	104°00'39.388"W	0.00	0.00	0.00	
19728.00†	90.000	359.271	10174.00	9553.05	9548.30	-434.04	599648.99	460810.52	32°15'59.305"N	104°00'39.400"W	0.00	0.00	0.00	
19828.00†	90.000	359.271	10174.00	9653.05	9648.29	-435.32	599647.72	460910.50	32°16'00.294"N	104°00'39.411"W	0.00	0.00	0.00	
19928.00†	90.000	359.271	10174.00	9753.05	9748.28	-436.59	599646.45	461010.49	32°16'01.284"N	104°00'39.422"W	0.00	0.00	0.00	
20028.00†	90.000	359.271	10174.00	9853.05	9848.27	-437.86	599645.18	461110.47	32°16'02.273"N	104°00'39.434"W	0.00	0.00	0.00	
20128.00†	90.000	359.271	10174.00	9953.05	9948.26	-439.13	599643.90	461210.45	32°16'03.263"N	104°00'39.445"W	0.00	0.00	0.00	
20228.00†	90.000	359.271	10174.00	10053.05	10048.26	-440.41	599642.63	461310.44	32°16'04.252"N	104°00'39.456"W	0.00	0.00	0.00	

Planned Wellpath Report

CB SE 5 32 FED COM 3 2H Prelim 1

REFERENCE WELLPATH IDENTIFICATION			
Operator	Chevron U.S.A. Inc.	Slot	CB SE 5 32 FED COM 3 2H
Area	Eddy County, NM	Well	CB SE 5 32 FED COM 3 2H
Field	Hayhurst South(Eddy Co., NM) Nad 27	Wellbore	CB SE 5 32 FED COM 3 2H
Facility	CB Pad 3		

WELLPATH DATA (211 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
20277.57	90.000	359.271	10174.00[1]	10102.62	10097.82	-441.04	599642.00	461360.00	32°16'04.743"N	104°00'39.462"W	0.00	0.00	0.00	End of Tangent

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
CB SE 5 32 FED COM 3 2H FTP		10174.00	37.00	-313.03	**599770.00**	**451300.00**	32°14'25.183"N	104°00'38.323"W	point
CB SE 5 32 FED COM 3 2H LTP		10174.00	9947.81	-439.04	**599644.00**	**461210.00**	32°16'03.258"N	104°00'39.444"W	point
1) CB SE 5 32 FED COM 3 2H PBHL rev 1	20277.57	10174.00	10097.82	-441.04	**599642.00**	**461360.00**	32°16'04.743"N	104°00'39.462"W	point

SURVEY PROGRAM - Ref Wellbore: CB SE 5 32 FED COM 3 2H Ref Wellpath: CB SE 5 32 FED COM 3 2H Prelim 1

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
28.00	20317.13	BHI NaviTrak (Standard)		CB SE 5 32 FED COM 3 2H

APD ID: 10400025211 **Submission Date:** 12/11/2017

Operator Name: CHEVRON USA INCORPORATED

Well Name: CB SE 5 32 FED COM 3 **Well Number:** 2H

Well Type: CONVENTIONAL GAS WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

CB_SE_5_32_FED_COM__003_2H_Road_Plat_20171211093331.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 repair pot holes, clear ditches, repair the crown, etc. All existing structures on the entire access route such as cattle guards, other range improvement projects, culverts, etc. will be properly repaired or replaced 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 Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

CB_SE_5_32_FED_COM__003_2H_New_Roads_20171211093433.pdf

New road type: LOCAL

Length: 1787 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

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 crossing, 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:

Access miscellaneous information:

Number of access turnouts: **Access turnout map:**

Drainage Control

New road drainage crossing: CULVERT,OTHER

Drainage Control comments: Sediment traps (hay bales suggested by BLM) we don't use every time but keep handy.

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 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

CB_SE_5__32_FED_COM_3_2H_Radius_Map_20171211093800.pdf

Existing Wells description:

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

Submit or defer a Proposed Production Facilities plan? DEFER

Estimated Production Facilities description: • Facilities: New facilities will be constructed; the location of which are pending and will be submitted at a future date. • Pipelines: Buried pipelines will be laid from well to facility to new production facility. o A ROW will be applied for through the BLM (if necessary). o All construction activity will be confined to the approved ROW. o Pipeline will run parallel to the road and will stay within approved ROW.

Section 5 - Location and Types of Water Supply

Water Source Table

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

Water source type: GW WELL

Describe type:

Source latitude:

Source longitude:

Source datum: NAD83

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): 700000

Source volume (acre-feet): 90.22517

Source volume (gal): 29400000

Water source and transportation map:

CB_SE_5_32_FED_COM_3_2H_Detail_20171211094455.pdf

Water source comments: • Fresh water will be obtained from a private water source (Currently Breakwater) the specific location of which to be provided before use. • A temporary 10" expanding pipe transfer line will run from pond along existing disturbance to well pad. o Fresh water line will run parallel to existing disturbance and will stay within 10' of access road. o A BLM ROW will be applied for through the BLM.

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:

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:**

Operator Name: CHEVRON USA INCORPORATED

Well Name: CB SE 5 32 FED COM 3 **Well Number:** 2H

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 S2 NW/4 Section 16 T26S R27E, or an alternative private pit in Section 13 T24S, R27E in Eddy County, NM. • Caliche will be used to construct well pad and roads. Material will be purchased from the nearest federal, state, or private permitted pit. 2 specific locations will be provided prior to APD approval. • The proposed source of construction material will be located and purchased by construction contractor. o Payment shall be made by contractor prior to any removal of federal minerals material by contacting agent at (575) 234-5972. o Notification shall be given to BLM at (575) 234-5909 at least 3 working days prior to commencing construction of access road and/or well pad.
Construction Materials source location attachment:

Section 7 - Methods for Handling Waste

Waste type: GARBAGE

Waste content description: garbage and trash produced during drilling and completion operations will be collected in trash container and disposed of properly in an NMOCD approved disposal facility. All trash on or 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.
Amount of waste: 200 barrels

Waste disposal frequency : Daily

Safe containment description: drill fluids and produced oil and water from the well during drilling and completion operations will be stored safely, collected in a trash container and disposed of properly in an NMOCD approved facility. After drilling and Compleiton operations, trash chemicals, salts, frac sand, in other waste material will be removed and disposed of properly 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. Carlsbad 6601 Hobbs HWY Carlsbad, NM 575-393-1079

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.) **Reserve pit width (ft.)**

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? NO

Description of cuttings location

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: A compressor station will be constructed adjacent to the new Facilities and detail will be provided at a future date.

Section 9 - Well Site Layout

Well Site Layout Diagram:

CB_SE_5_32_FED_COM__003_2H_Well_Plat_20171211100937.pdf

Comments: • Surveyor Plat o Exterior well pad dimensions are 380' x 470'. o Interior well pad dimensions from point of entry (well head) of the easternmost well are N-120', S-260', E-190', W-280'. The length to the west includes 25' spacing for next well on multi-well pad (four wells). Total disturbance area needed for construction of well pad will be 4.1 acres. o Topsoil placement is on the west where interim reclamation is planned to be completed upon completion of well and evaluation of best management practices. o Cut and fill: will be minimal.

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance **Multiple Well Pad Name:** CB SE 5 32 FED COM 3

Multiple Well Pad Number: 1H 2H 3H

Recontouring attachment:

CB_SE_5_32_FED_COM_3_2H_IR_Plat_20171211111254.pdf

CB_SE_5_32_FED_COM_3_2H_CUT_FILL_20171211111255.pdf

CB_SE_5_32_FED_COM_3_2H_SUP_20171211111256.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.

Drainage/Erosion control reclamation: Prior to final reclamation procedures, 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 or build roads and well pads. • All disturbed areas, 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 distinguish ably with the surrounding landscape. • After all the disturbed areas have been properly prepared; the areas will be seeded with the proper BLM seed mixture (BLM #2), free of noxious weeds.

Well pad proposed disturbance (acres): 4.1
Road proposed disturbance (acres): 0.82
Powerline proposed disturbance (acres): 0.32
Pipeline proposed disturbance (acres): 0.32
Other proposed disturbance (acres): 0
Total proposed disturbance: 5.56

Well pad interim reclamation (acres): 1.68
Road interim reclamation (acres): 0
Powerline interim reclamation (acres): 0
Pipeline interim reclamation (acres): 0
Other interim reclamation (acres): 0
Total interim reclamation: 1.68

Well pad long term disturbance (acres): 2.42
Road long term disturbance (acres): 0.82
Powerline long term disturbance (acres): 0.32
Pipeline long term disturbance (acres): 0.32
Other long term disturbance (acres): 0
Total long term disturbance: 3.88

Disturbance Comments: All disturbed areas, 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.
Reconstruction method: reducing the pad size to 2.42 acres from the proposed size of 4.1 acres. within 30 days of well completion, the well location and surrounding areas well be cleared of, and maintained free of, all materials, trash, and equipment not required for production.
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 re-vegetation.
Soil treatment: To seed the area, the proper BLM mixture free of noxious weeds, will be used.

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

Existing Vegetation at the well pad attachment:

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

Existing Vegetation Community at the road attachment:

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

Existing Vegetation Community at the pipeline attachment:

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

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:

Operator Name: CHEVRON USA INCORPORATED

Well Name: CB SE 5 32 FED COM 3 **Well Number:** 2H

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

Total pounds/Acre:

Seed Type	Pounds/Acre

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: Kevin **Last Name:** Dickerson

Phone: **Email:** kevin.dickerson@chevron.com

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

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

Weed treatment plan attachment:

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

Monitoring plan attachment:

Success standards: As per BLM requirements.

Operator Name: CHEVRON USA INCORPORATED

Well Name: CB SE 5 32 FED COM 3 **Well Number:** 2H

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:**

Section 12 - Other Information

Right of Way needed? YES **Use APD as ROW?** YES

ROW Type(s): 281001 ROW - ROADS,289001 ROW- O&G Well Pad,Other

ROW Applications

SUPO Additional Information: • Cultural report attached: In Progress • Participating Agreement attached: N/A • Erosion / Drainage: Drainage control system shall be constructed on the entire length of road by the use of any of the following: ditches, side hill out-sloping and in-sloping, lead-off ditches, culvert installation, or low water crossings. • Exclosure 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 backfilling takes place.

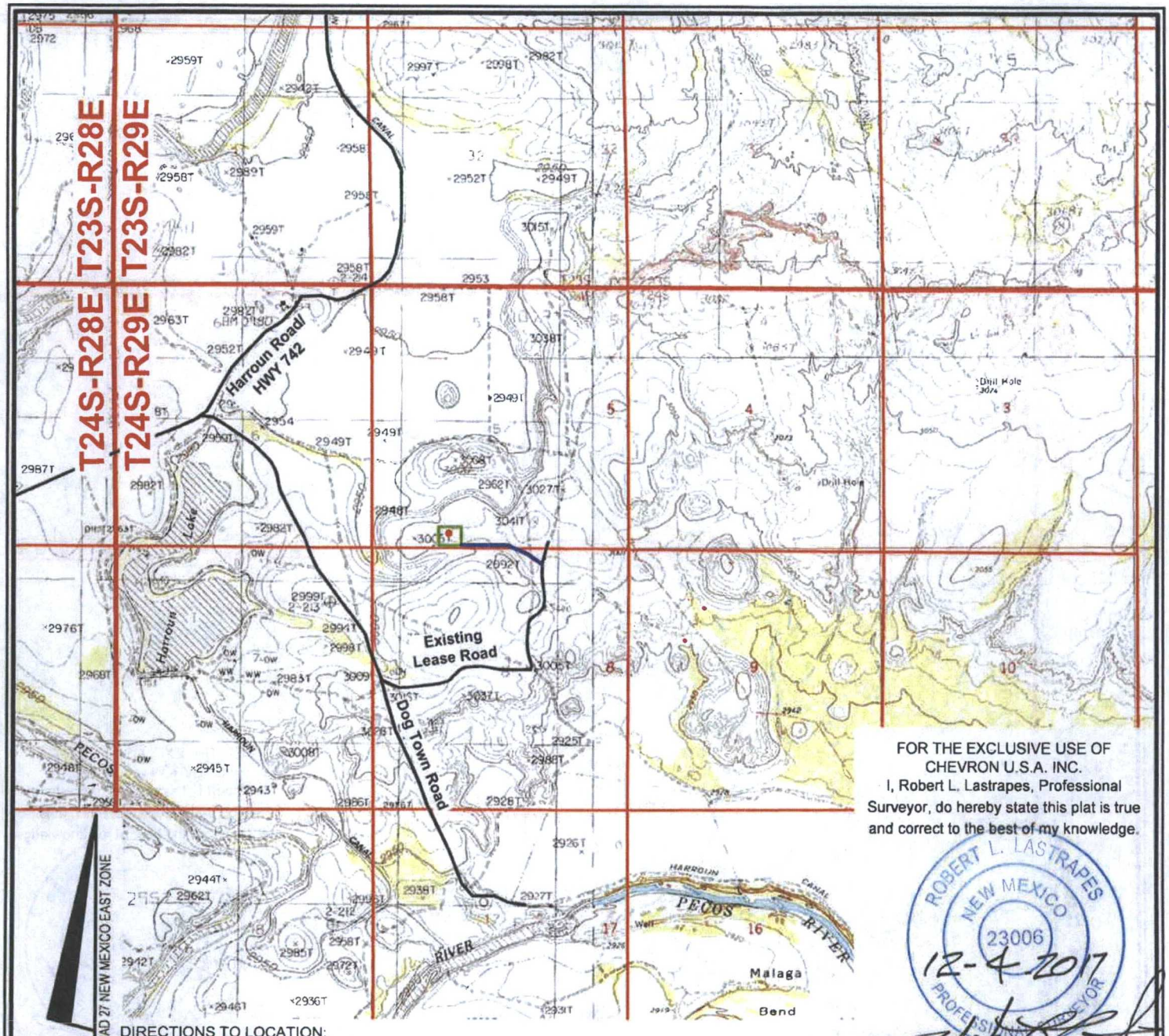
Operator Name: CHEVRON USA INCORPORATED

Well Name: CB SE 5 32 FED COM 3 **Well Number:** 2H

Use a previously conducted onsite? YES

Previous Onsite information: On-site performed by BLM NRS: Paul Murphy on 10/13/2017

Other SUPO Attachment



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 NEW MEXICO 23006 PROFESSIONAL SURVEYOR
12-4-2017

Robert L. Lastrapes
Registration No. 23006

DIRECTIONS TO LOCATION:
From Harroun Road(Hwy742), head East on Dog Town Road for approximately 1.30 miles to a Lease road on East side of Dog Town Road. Head East on said Lease road for approximately 0.60 miles to a Lease road on North side of road. Head North on said Lease road for approximately 0.50 miles to proposed access located on West side of Lease road.

ROAD PLAT

SCALE: 1" = 3000'
3000' 0 1500' 3000'

LEGEND
- Proposed Well
- Proposed Access Road
- Proposed Drillsite
- Existing Road
- Section Line
- Township & Range

CHEVRON U.S.A. INC.

CB SE 5 32 FED COM 3 NO. 2H WELL
LOCATED 295' FSL AND 1567' FWL
SECTION 5, T24S-R29E
EDDY COUNTY, NEW MEXICO

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

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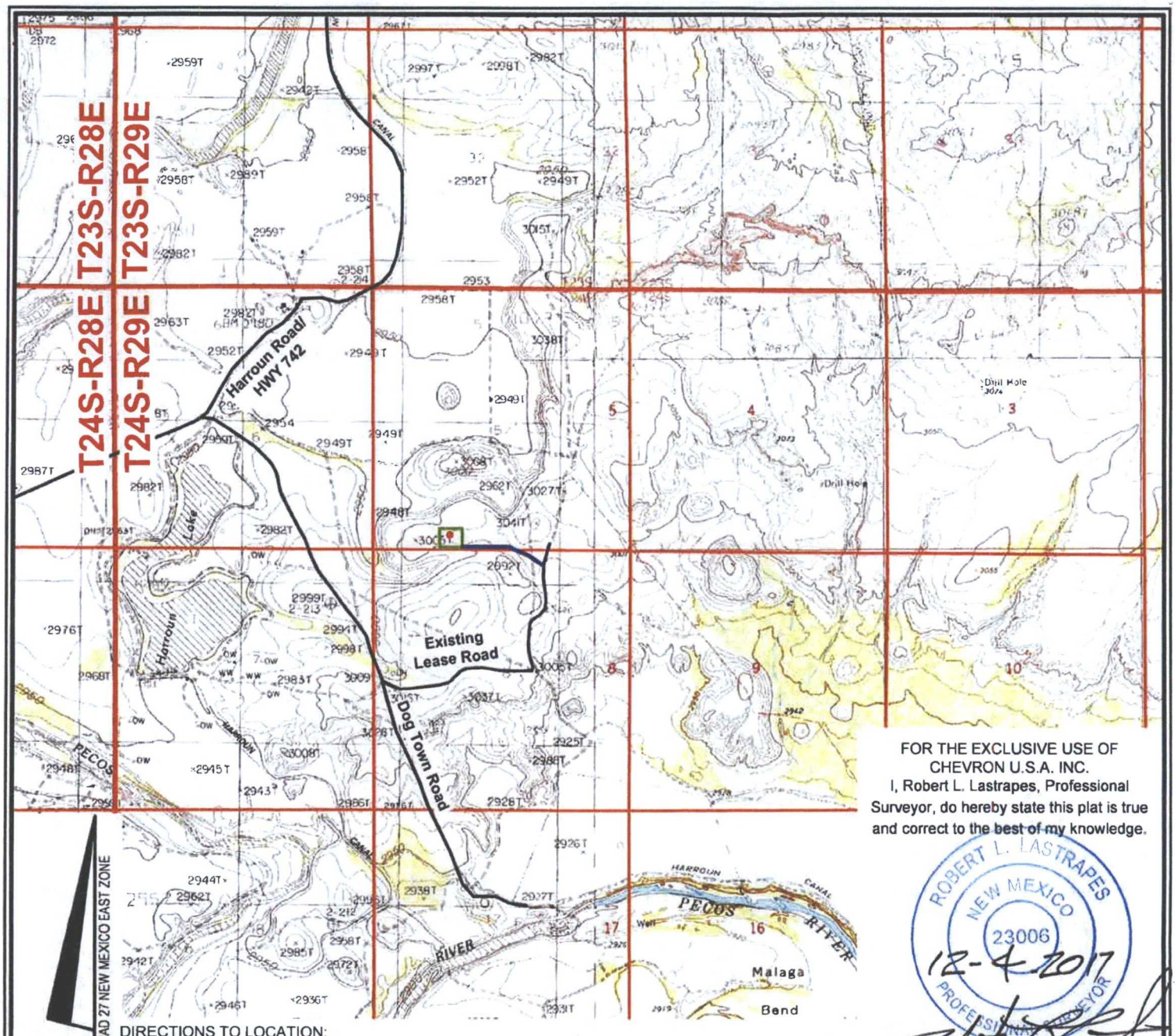

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ROAD PLAT

SCALE: 1" = 3000'
3000' 0 1500' 3000'

LEGEND
- Proposed Well
- Proposed Access Road
- Proposed Drillsite
- Existing Road
- Section Line
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CHEVRON U.S.A. INC.
CB SE 5 32 FED COM 3 NO. 2H WELL
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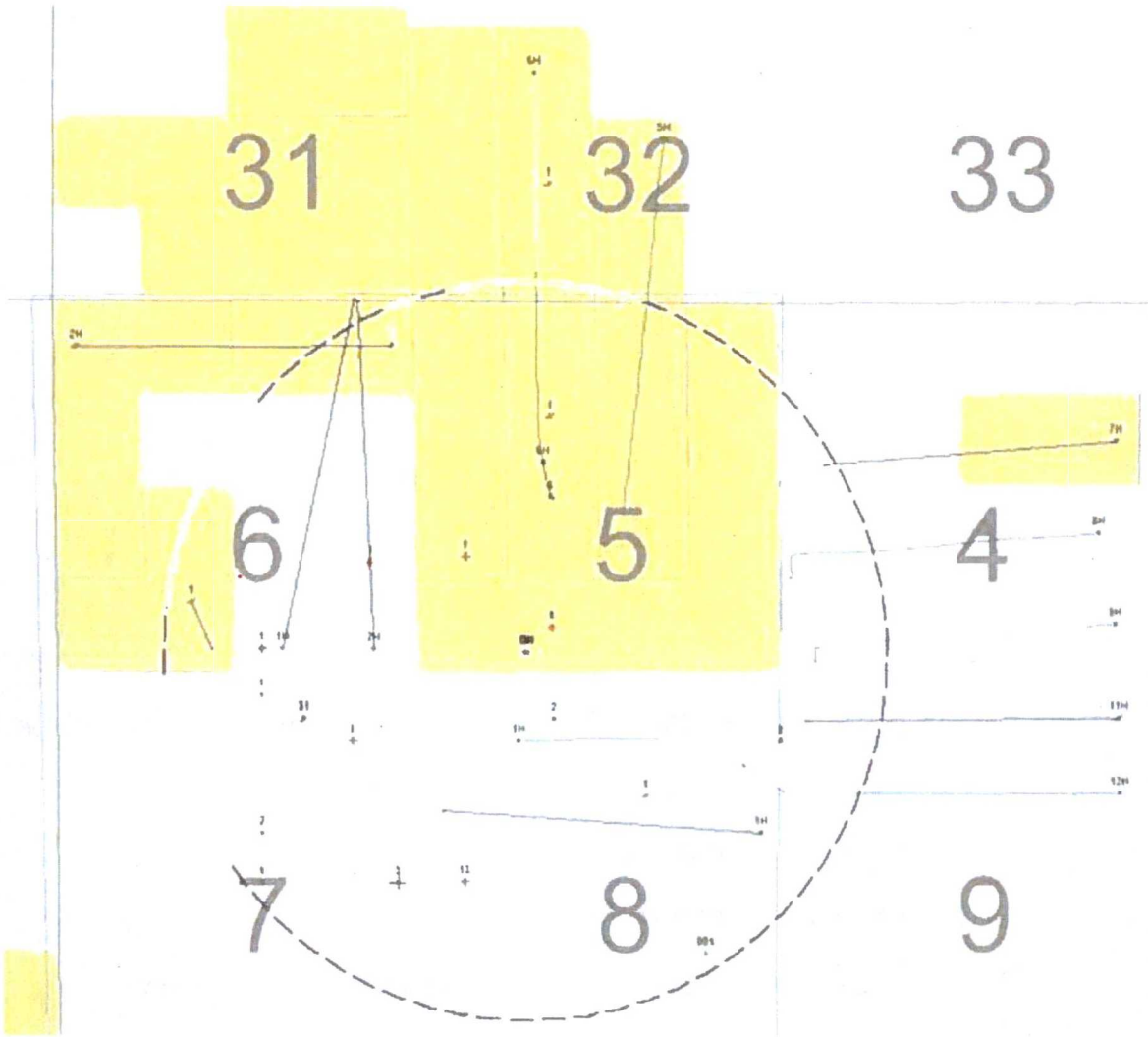
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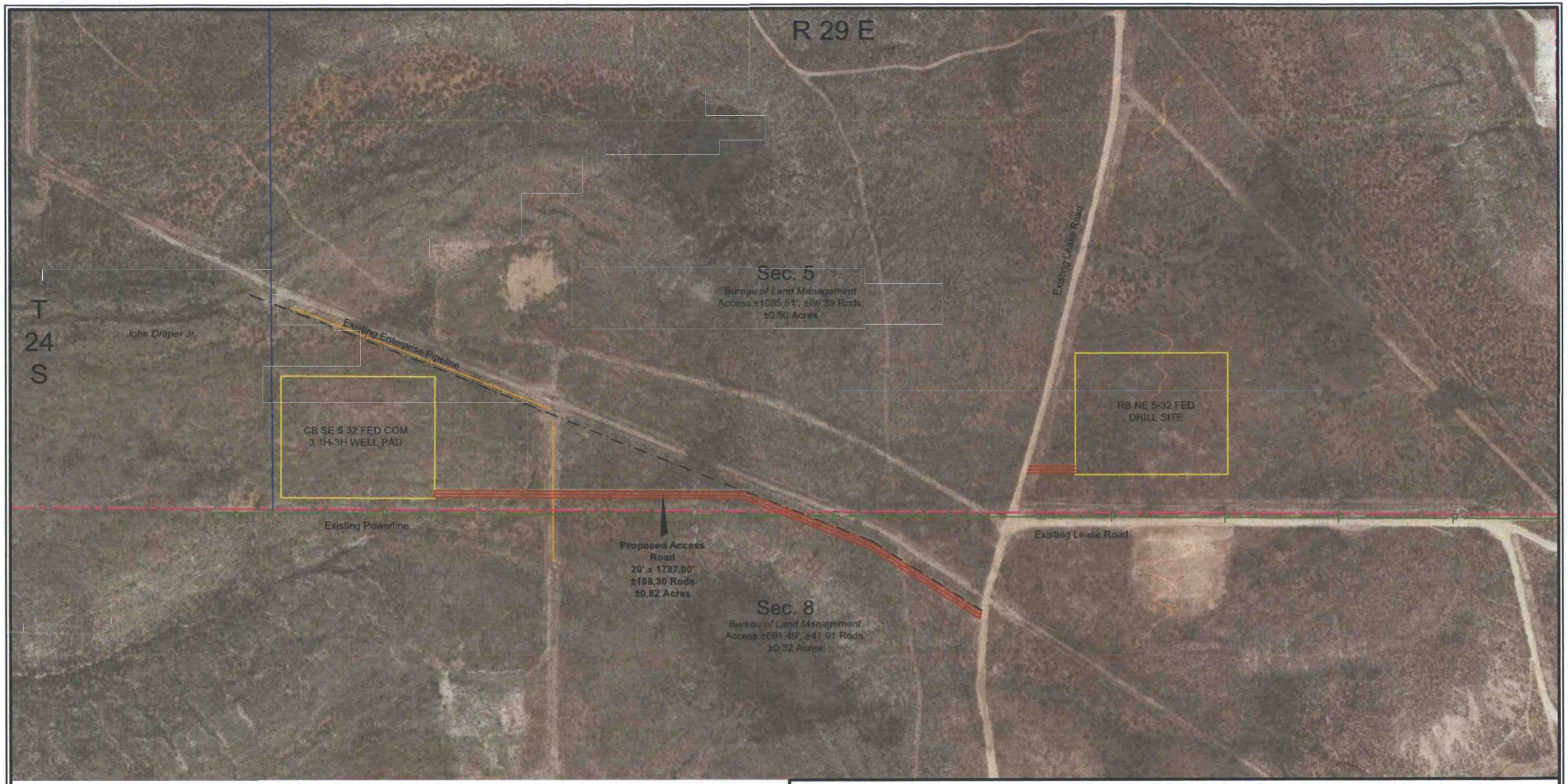
	ORA R HALL-FEDERAL 1	SOUTHERN CALIFORNIA PETROLEUM CORP
	YARBOROUGH-FED 1	EL CAPITAN OIL
	COCHITA `5` FEDERAL 1	MARALO LLC
	COCHITA `8` FEDERAL 2	MARALO LLC
	MALAGA `7` FEDERAL 31	MEWBOURNE OIL COMPANY
	COCHITA `5` FEDERAL 1	MARALO LLC
	COCHITI `8` FEDERAL 13	LOUIS DREYFUS NATURA
	BETTIE H REID-FEDER 3	SOUTHERN CA GAS CO
	JUNIPER BIP FEDERAL 8H	EOG Y RESOURCES INC
	BALSAM BNL FEDERAL 1H	EOG Y RESOURCES INC
30015374070000	JUNIPER BIP FEDERAL 9H	EOG Y RESOURCES INC
30015372120000	JUNIPER BIP FEDERAL 7H	YATES PETROLEUM CORP
30015377860000	CHEVRON BOT 5H	EOG Y RESOURCES INC
30015379310000	CHEVRON BOT 6H	EOG Y RESOURCES INC

3000

	CHEVRON 801 6H	YATES PETROLEUM CORP
	MALAGA-HRROUN`6`COM 1	GETTY OIL COMPANY
	HARROUN TRUST `6` F 1H	DEVON ENERGY PROD
	HARROUN TRUST `6` F 2H	DEVON ENERGY PROD
	HARROUN TRUST `6` S 1	DEVON ENERGY PROD
	CEDAR CANYON SWD 001	MESQUITE SWD INC
	HARROUN `32` STATE COM 1	TEXACO EXPL&PROD INC
	HARROUN `5` FEDERAL COM 1	TEXACO EXPL&PROD INC
	COCHITA `8` FEDERAL COM 1	MARALO INCORPORATED
	MALAGA 7-31 STATE 31	LOUIS DREYFUS NATURA
	BLACK BEAN FEDERAL COM 1	COG OPERATING LLC
3001538661000	BIG OIL FEE COM 2H	MARBOB ENERGY CORP
CB_PAD3_2H	CB_PAD3_2H	Chevron
CB_PAD3_1H	CB_PAD3_1H	Chevron
CB_PAD3_3H	CB_PAD3_3H	Chevron



NAD 27 NEW MEXICO EAST ZONE

Scale: 1" = 300'

300' 0 150' 300'

LEGEND

- FLOWLINE
- PROPOSED ACCESS ROAD
- PROPOSED PAD
- EXISTING ROW
- P — UTILITY LINE
- PROPERTY LINES
- SECTION LINES

DETAIL

CHEVRON U.S.A. INC.

PROPOSED PAD & ACCESS ROAD
CB SE 5 32 FED COM 3 NOS. 1H-3H WELLS
SECTIONS 5 & 8, T24S-R29E
EDDY COUNTY, NEW MEXICO

C. H. Fenstermaker & Associates, L.L.C.
135 Regency Sq. Lafayette, LA 70508
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REVISIONS			
#	BY:	DATE:	DESCRIPTION:

DRAWN BY: DMB
PROJ. MGR.: GDG
DATE: 12/04/2017
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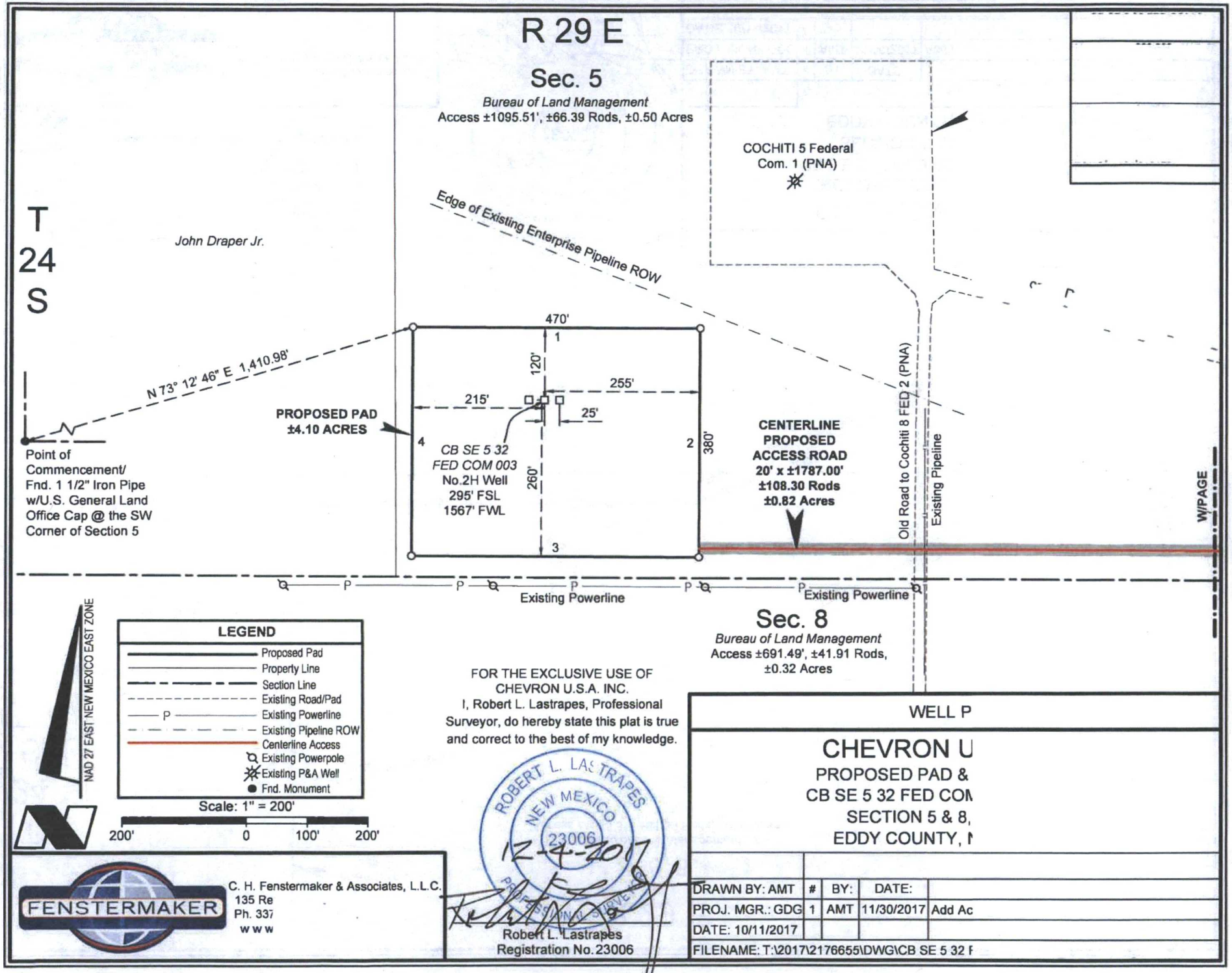
R 29 E
Sec. 5
Bureau of Land Management
Access ±1095.51', ±66.39 Rods, ±0.50 Acres
COCHITI 5 Federal
Com. 1 (PNA)
T
24
S
John Draper Jr.
Edge of Existing Enterprise Pipeline ROW
470'
1
120'
255'
215'
25'
N 73° 12' 46" E 1,410.98'
PROPOSED PAD
±4.10 ACRES
4
CB SE 5 32
FED COM 003
No.2H Well
295' FSL
1567' FWL
260'
2
380'
3
CENTERLINE
PROPOSED
ACCESS ROAD
20' x ±1787.00'
±108.30 Rods
±0.82 Acres
Old Road to Cochiti 8 FED 2 (PNA)
Existing Pipeline
W/PAGE
Point of
Commencement/
Fnd. 1 1/2" Iron Pipe
w/U.S. General Land
Office Cap @ the SW
Corner of Section 5
P
Existing Powerline
Existing Powerline
Sec. 8
Bureau of Land Management
Access ±691.49', ±41.91 Rods,
±0.32 Acres
NAD 27 EAST NEW MEXICO EAST ZONE
LEGEND
Proposed Pad
Property Line
Section Line
Existing Road/Pad
Existing Powerline
Existing Pipeline ROW
Centerline Access
Existing Powerpole
Existing P&A Well
Fnd. Monument
Scale: 1" = 200'
200'
0
100'
200'
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
NEW MEXICO
23006
12-4-2017
PROFESSIONAL SURVEYOR
Robert L. Lastrapes
Registration No. 23006
WELL P
CHEVRON U
PROPOSED PAD &
CB SE 5 32 FED COM
SECTION 5 & 8,
EDDY COUNTY, N
FENSTERMAKER
C. H. Fenstermaker & Associates, L.L.C.
135 Re
Ph. 337
www
DRAWN BY: AMT
PROJ. MGR.: GDG
DATE: 10/11/2017
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BY: AMT
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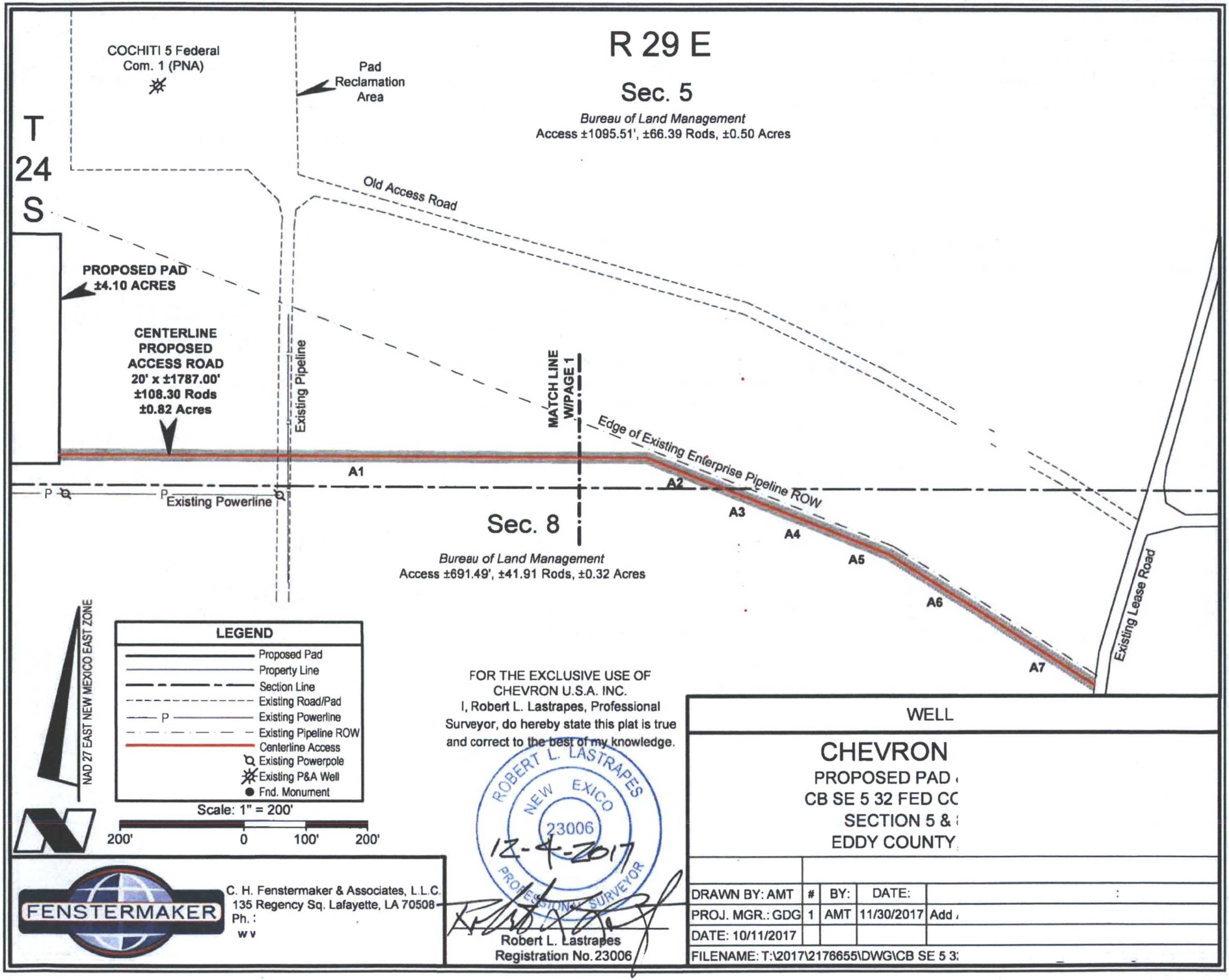

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ROBERT L. LASTRAPES NEW MEXICO 23006 PROFESSIONAL SURVEYOR
12-4-2017

Robert L. Lastrapes
Registration No. 23006

FENSTERMAKER

C. H. Fenstermaker & Associates, L.L.C.
135 Regency Sq. Lafayette, LA 70508
Ph.:
w v

WELL

CHEVRON

PROPOSED PAD
CB SE 5 32 FED CC
SECTION 5 &
EDDY COUNTY

DRAWN BY: AMT	#	BY:	DATE:	
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DATE: 10/11/2017				
FILENAME: T:\2017\2176655\DWG\CB SE 5 3				

termaker & Associates, L.L.C. has not
ıy type of engineering, hydrological modeling,
alyses, including but not limited to determining
zards in connection with federal/FEMA, state,
ations. Accordingly, Fenstermaker makes no
ıs to the foregoing issues, and persons or
o at their own risk.

efforts are made to locate and
standard pipeline locating
effective. As such, we advise
there is a possibility that
r optic cables, PVC pipelines,

rs that establish links between those
n and operate underground facilities
tates, law, for the contractor to
ing and marking underground
e Call www.nmonecall.org

	'AD	
		DISTANCE
	E	470.00'
	N	380.00'
	N	470.00'
	E	380.00'

	POSED AD	
		DISTANCE
	E	959.93'
	E	135.58'
	E	64.52'
	E	130.57'
	E	97.19'
	E	200.66'
	E	198.55'

NW PAD CORNER		NE PAD CORNER	
X=	599,869 NAD 27	X=	600,339 NAD 27
Y=	451,384	Y=	451,382
LAT.	32.240559	LAT.	32.240548
LONG.	104.010324	LONG.	104.008804
X=	641,053 NAD83	X=	641,523 NAD83
Y=	451,443	Y=	451,441
LAT.	32.240682	LAT.	32.240671
LONG.	104.010815	LONG.	104.009294
ELEVATION +3009' NAVD 88		ELEVATION +3013' NAVD 88	
SW PAD CORNER		SE PAD CORNER	
X=	599,867 NAD 27	X=	600,337 NAD 27
Y=	451,004	Y=	451,002
LAT.	32.239515	LAT.	32.239504
LONG.	104.010335	LONG.	104.008815
X=	641,051 NAD83	X=	641,521 NAD83
Y=	451,063	Y=	451,061
LAT.	32.239637	LAT.	32.239626
LONG.	104.010825	LONG.	104.009305
ELEVATION +3005' NAVD 88		ELEVATION +3007' NAVD 88	

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ROBERT L. LASTRAPES NEW MEXICO 23006 PROFESSIONAL SURVEYOR
12-4-2017

Robert L. Lastrapes
Registration No. 23006

FENSTER ER

ıstermaker & Associates, L.L.C.
ıency Sq. Lafayette, LA 70508
3299
ı m

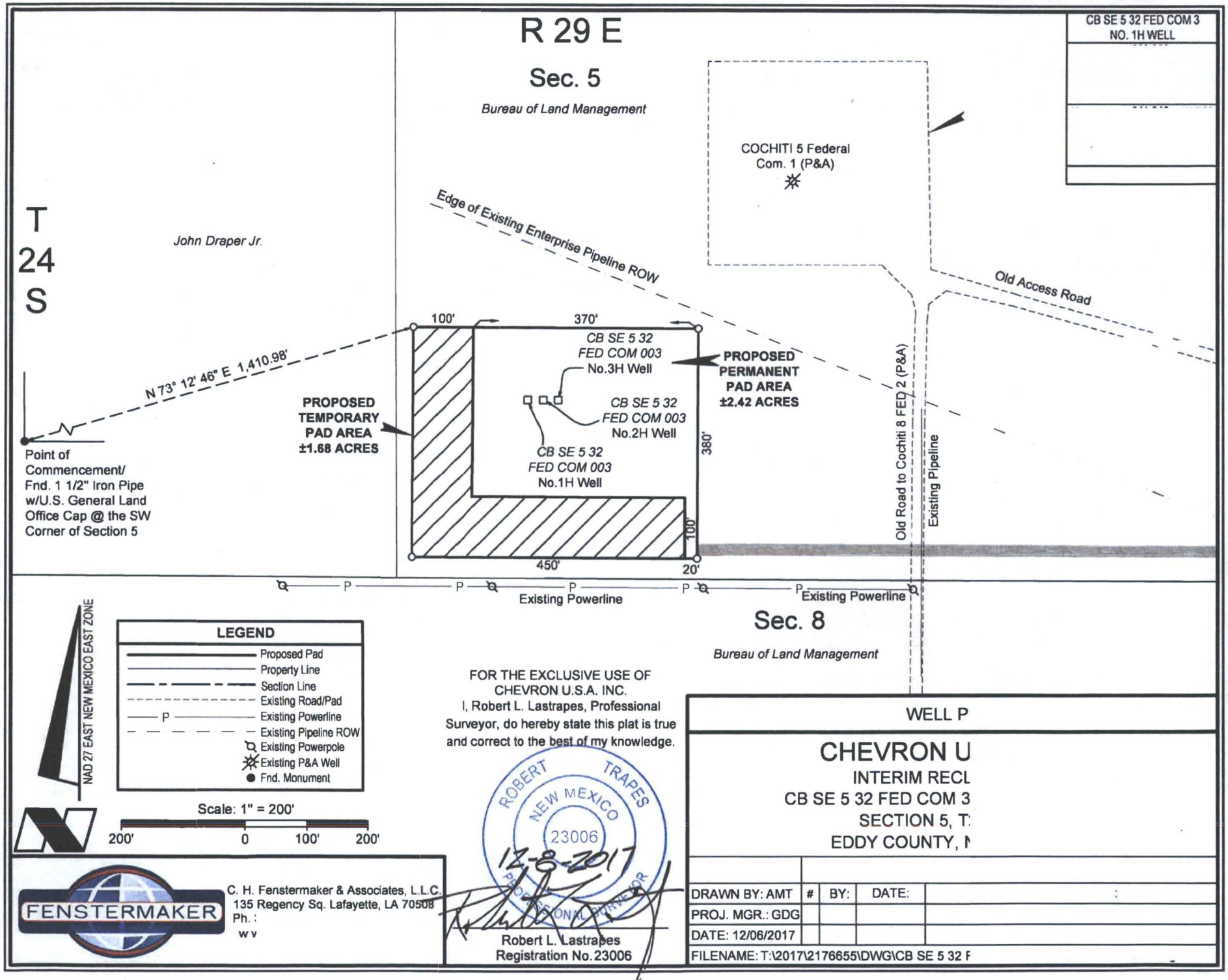
WELL PLAT Page 3 of 3

CHEVRON U.S.A. INC.

PROPOSED PAD & ACCESS ROAD
CB SE 5 32 FED COM 3 NO. 2H WELL
SECTION 5 & 8, T24S-R29E
EDDY COUNTY, NEW MEXICO

	REVISIONS			
DRAWN BY: AMT	#	BY:	DATE:	DESCRIPTION:
PROJ. MGR.: GDG	1	AMT	11/30/2017	Add Access Road
DATE: 10/11/2017				

FILENAME: T:\2017\2176655\DWG\CB SE 5 32 FED COM 3 2H_WellPlat.dwg


R 29 E
Sec. 5
Bureau of Land Management
CB SE 5 32 FED COM 3
NO. 1H WELL
COCHITI 5 Federal
Com. 1 (P&A)
T
24
S
John Draper Jr.
Edge of Existing Enterprise Pipeline ROW
Old Access Road
N 73° 12' 46" E 1,410.98'
Point of
Commencement/
Fnd. 1 1/2" Iron Pipe
w/U.S. General Land
Office Cap @ the SW
Corner of Section 5
PROPOSED
TEMPORARY
PAD AREA
±1.68 ACRES
100'
370'
CB SE 5 32
FED COM 003
No.3H Well
PROPOSED
PERMANENT
PAD AREA
±2.42 ACRES
CB SE 5 32
FED COM 003
No.2H Well
CB SE 5 32
FED COM 003
No.1H Well
380'
100'
450'
20'
Old Road to Cochiti 8 FED 2 (P&A)
Existing Pipeline
Existing Powerline
Existing Powerline
Sec. 8
Bureau of Land Management
NAD 27 EAST NEW MEXICO EAST ZONE
LEGEND
Proposed Pad
Property Line
Section Line
Existing Road/Pad
Existing Powerline
Existing Pipeline ROW
Existing Powerpole
Existing P&A Well
Fnd. Monument
Scale: 1" = 200'
200' 0 100' 200'
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 TRAPES
NEW MEXICO
23006
PROFESSIONAL SURVEYOR
12-8-2017
Robert L. Lastrapes
Registration No. 23006
FENSTERMAKER
C. H. Fenstermaker & Associates, L.L.C.
135 Regency Sq. Lafayette, LA 70508
Ph. :
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WELL P
CHEVRON U
INTERIM RECL
CB SE 5 32 FED COM 3
SECTION 5, T:
EDDY COUNTY, N
DRAWN BY: AMT
PROJ. MGR.: GDG
DATE: 12/06/2017
BY: DATE:
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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:
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.

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 C	
X= 599	
Y= 451	
LAT. 32.24(	
LONG. 104.01(	
X= 641	
Y= 451	
LAT. 32.24(	
LONG. 104.01(	
ELEVATION +3(	
SW PAD C	
X= 599	
Y= 451	
LAT. 32.23(	
LONG. 104.01(	
X= 641	
Y= 451	
LAT. 32.23(	
LONG. 104.01(	
ELEVATION +3(	

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
NEW MEXICO
23006
12-8-2017
PROFESSIONAL SURVEYOR

Robert L. Lastrapes
Registration No. 23006

FE STERMAKER

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

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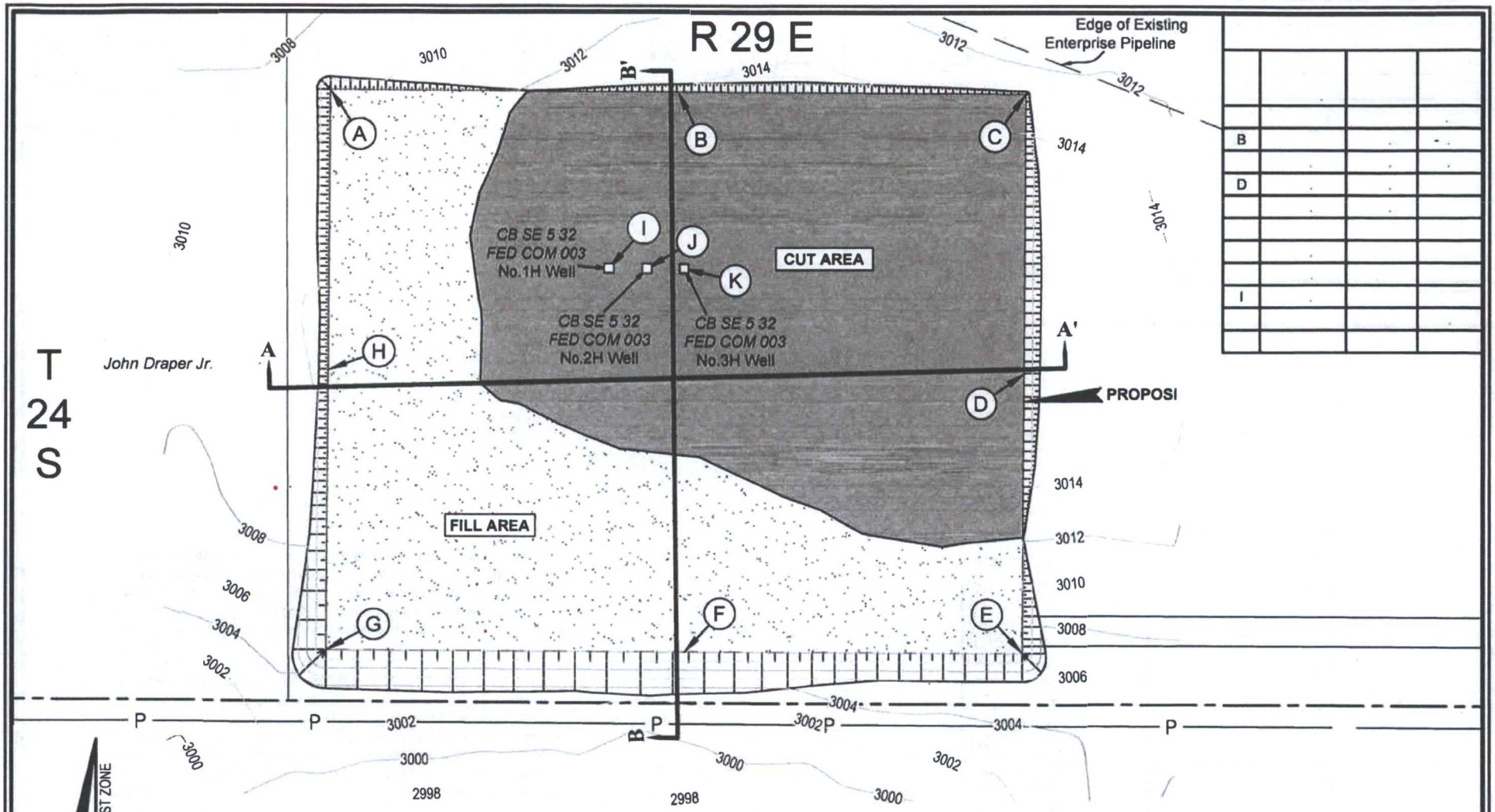

Sec. 8

Bureau of Land Management

NAD 27 NEW MEXICO EAST ZONE

CUT VOLUME = 9,794.49 Cu. Yd.
FILL VOLUME = 9,794.48 Cu. Yd.
NET VOLUME = 0.01 Cu. Yd. Cut

Scale: 1" = 100'

100' 0 50' 100'

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 NEW MEXICO 23006 PROFESSIONAL SURVEYOR

12-4-2017

Robert L. Lastrapes
Registration No. 23006

FENSTERMAKER

C. H. Fenstermaker & Associates, L.L.C.
135 Regency Sq. Lafayette, LA 70508
Ph. 337-237-2200 Fax. 337-232-3299
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CUT AND FI

CHEVRON L

PROPOSE
CB SE 5 32 FED COM 00
SECTION 5 & 8,
EDDY COUNTY, I

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PROJ. MGR.: GDG			
DATE: 11/30/2017			

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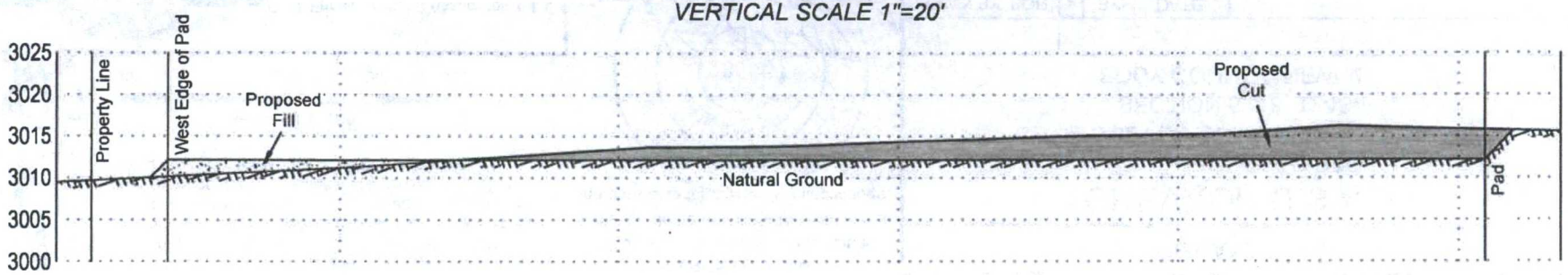
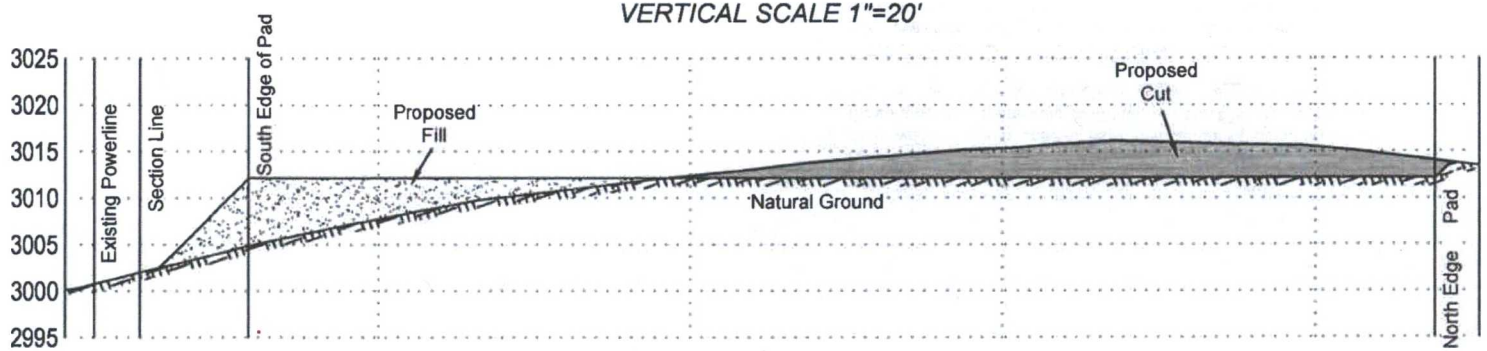
CROSS SECTION A-A'
HORIZONTAL SCALE 1"=60'
VERTICAL SCALE 1"=20'



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



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ROBERT L. TRAPES
NEW MEXICO
23006
12-4-2017
PROFESSIONAL SURVEYOR

Robert L. Lastrapes
Registration No. 23006

FENSTERMAKER
C. H. Fenstermaker & Associates, L.L.C.
135 Regency Sq. Lafayette, LA 70508
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CUT AND FIL

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PROPOSED
CB SE 5 32 FED COM 003
SECTION 5 & 8, T
EDDY COUNTY, NI

DRAWN BY: BOR	#	BY:	DATE:	
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DATE: 11/30/2017				
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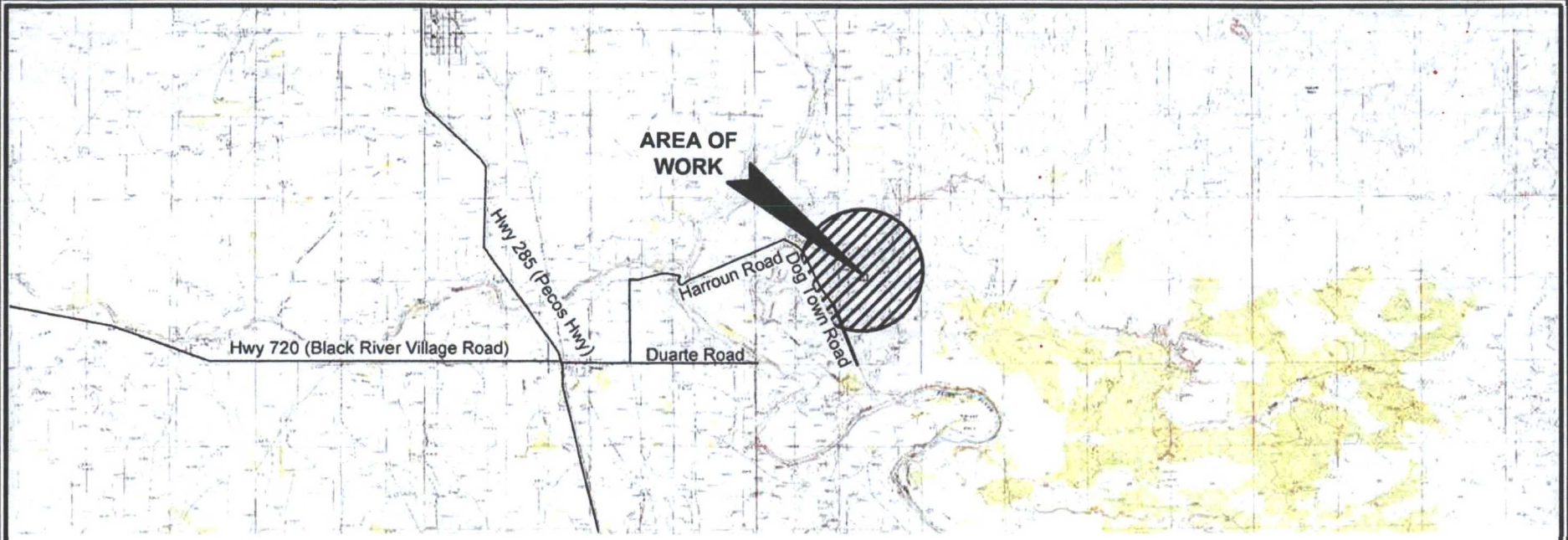

NOTE:

1. Many states maintain information centers that establish links betw those who own and operate underground facilities (operators). It is a the contractor to contact the center for assistance in locating and mai guidance: New Mexico One Call www.nmonecall.org.

2. The design pad elevation recommendation is based solely on a cut and f does not include material required for the access roads. A detailed soil test performed prior to construction to ensure proper compaction and working anticipated loadings. This material balance sheet does not constitute a four no warranty to the structural integrity of the site layout as shown. Fenstern or warranty about the layout relative to flood hazards, erosion control, or s the North American Vertical Datum of 1988.

3. Please be advised, that while reasonable efforts are made to locate using our standard pipeline locating equipment, it is impossible to b advise using caution when performing work as there is a possibility such as fiber optic cables, PVC pipelines, etc. may exist undetected

NAD 27 NEW MEXICO EAST ZONE

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.

Scale: 1" = 100'

100' 0 50' 100'

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 NEW MEXICO 23006 PROFESSIONAL SURVEYOR

12-4-2017

Robert L. Lastrapes
Registration No. 23006

FENSTERMAKER

C. H. Fenstermaker & Associates, L.L.C.
135 Regency Sq. Lafayette, LA 70508
Ph. 3
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CUT AND FILL PLA

CHEVRON U.S.A.

PROPOSED PAD
CB SE 5 32 FED COM 003 NOS.
SECTION 5 & 8, T24S-F
EDDY COUNTY, NEW ME

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DATE: 11/30/2017				
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CHEVRON U.S.A. Inc
CB SE 5 32 FED COM 3 2H
NMNM 119754
SECTION 5, T24S-R29E
SHL 295' FSL & 1567' FWL

SECTION 32, T23S-R29E
BHL 180' FNL & 1254' FWL

APD Surface Use Plan of Operations

Existing Roads

- The operator will improve or maintain existing roads in a condition the same as or better than before operations begin. The operator will repair pot holes, clear ditches, repair the crown, etc. All existing structures on the entire access route such as cattle guards, other range improvement projects, culverts, etc. will be properly repaired or replaced 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.
- Driving Directions – From Malaga, New Mexico. The location is approximately 3 miles from the nearest town, which is Malaga, New Mexico. From the intersection of HWY 285 (Pecos Highway) and Black River Village Road (in Malaga) head north for 100 yards and veer right onto Onsurez Road (County Road 731). Follow CR 731 for .6 miles then turn right onto Bramble Road (becomes Harroun Road, or CR 745) Follow this road through a low water crossing then keep traveling until the intersection of Harroun and Dog Town Roads (3.5 miles). Once on Dog Town Road, travel 1.25 miles to the junction of a lease road. Turn left on lease road and head .6 miles to a fork in the road. Follow the road left (north) for .5 miles to an intersection and turn left. The location is ¾ mile on the left at the end of the lease road.

New or Reconstructed Access Roads – Survey plat

- There will be 1787' of road construction for the well pad.
- Road Width: The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed 20'. The maximum width of surface disturbance shall not exceed 25'.
- Maximum Grade: 3%
- Crown Design: Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2%. The road shall conform to cross section and plans for typical road construction found in the BLM Gold Book.
- Turnouts: none needed

- Ditch Design: Ditching will be constructed on both sides of road.
- Cattle guards: none needed
- Major Cuts and Fills: 2:1 during drilling and completions. Cuts and fills taken back to 3:1 at interim.
- Type of Surfacing Material: Caliche

Location of Existing Wells

- 1-Mile radius map is attached

Location of Existing and/or Proposed Production Facilities

- Facilities: New facilities will be constructed; the location of which are pending and will be submitted at a future date.
- Pipelines: Buried pipelines will be laid from well to facility to new production facility.
    - A ROW will be applied for through the BLM (if necessary).
    - 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

- Fresh water will be obtained from a private water source (Currently Breakwater) the specific location of which to be provided before use.
- A temporary 10" expanding pipe transfer line will run from pond along existing disturbance to well pad.
    - Fresh water line will run parallel to existing disturbance and will stay within 10' of access road.
    - A BLM ROW will be applied for through the BLM.

Construction Material

- Caliche will be used to construct well pad and roads. Material will be purchased from the nearest federal, state, or private permitted pit. 2 specific locations will be provided prior to APD approval.
- The proposed source of construction material will be located and purchased by construction contractor.
    - Payment shall be made by contractor prior to any removal of federal minerals material by contacting agent at (575) 234-5972.
    - Notification shall be given to BLM at (575) 234-5909 at least 3 working days prior to commencing construction of access road and/or well pad.

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.
- 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.

Ancillary Facilities

A compressor station will be constructed adjacent to the new Facilities and detail will be provided at a future date.

Well Site Layout

- Surveyor Plat
  - Exterior well pad dimensions are 380' x 470'.
  - Interior well pad dimensions from point of entry (well head) of the easternmost well are N-120', S-260', E-255', W-215'. The length to the west includes 25' spacing for next well on multi-well pad (four wells). Total disturbance area needed for construction of well pad will be 4.1 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.

Plans for Surface Reclamation

Reclamation Objectives

- The objective of interim reclamation is to restore vegetative cover and a portion of the landform sufficient to maintain healthy, biologically active topsoil; control erosion; and minimize habitat and forage loss, visual impact, and weed infestation, during the life of the well or facilities.
- The long-term objective of final reclamation is to return the land to a condition

similar to what existed prior to disturbance. This includes restoration of the landform and natural vegetative community, hydrologic systems, visual resources, and wildlife habitats. To ensure that the long-term objective will be reached through human and natural processes, actions will be taken to ensure standards are met for site stability, visual quality, hydrological functioning, and vegetative productivity.

- The BLM will be notified at least 3 days prior to commencement of any reclamation procedures.
- If circumstances allow, interim reclamation and/or final reclamation actions will be completed no later than 6 months from when the final well on the location has been completed or plugged. We will gain written permission from the BLM if more time is needed.
- Reclamation will be performed by using the following procedures:

Interim Reclamation Procedures

- Within 6 months, Chevron will contact BLM Surface Management Specialists to devise the best strategies to reduce the size of the location. Current plans for interim reclamation include reducing the pad size to approximately 1.2 acres from the proposed size of 4 acres. Within 30 days of well completion, the well location and surrounding areas will be cleared of, and maintained free of, all materials, trash, and equipment not required for production. A plan will be submitted showing where interim reclamation will be completed in order to allow for safe operations, protection of the environment outside of drilled well, and following best management practices found in the BLM "Gold Book".
- In areas planned for interim reclamation, all the surfacing material will be removed and returned to the original mineral pit or recycled to repair or build roads and well pads.
- The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.
- Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations including cuts & fills. To seed the area, the proper BLM seed mixture (BLM #2), free of noxious weeds, will be used.
- Proper erosion control methods will be used on the area to control erosion, runoff and siltation of the surrounding area.
- The interim reclamation will be monitored periodically to ensure that vegetation

has reestablished

Final Reclamation (well pad, buried pipelines, and power lines, etc.)

- Prior to final reclamation procedures, 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 or build roads and well pads.
- All disturbed areas, including roads, pipelines, pads, production facilities, and interim reclaimed areas will be recontoured to the contour existing prior to initial construction or a contour that blends in distinguishably with the surrounding landscape. Topsoil that was spread over the interim reclamation areas will be stockpiled prior to recontouring. The topsoil will be redistributed evenly over the entire disturbed site to ensure successful revegetation.
- After all the disturbed areas have been properly prepared; the areas will be seeded with the proper BLM seed mixture (BLM #2), free of noxious weeds.
- Proper erosion control methods will be used on the entire area to control erosion, runoff and siltation of the surrounding area.

Surface Ownership

- Private Surface
  - Surface Owner – BLM

- **Nearest Post Office:** Malaga Post Office; 3 Miles West

Other Information

- On-site performed by BLM NRS: Paul Murphy on 10/13/2017
- Cultural report attached: In Progress
- Participating Agreement attached: N/A
- Erosion / Drainage: Drainage control system shall be constructed on the entire length of road by the use of any of the following: ditches, side hill out-sloping and in-sloping, lead-off ditches, culvert installation, or low water crossings.
- Exclosure 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 backfilling takes place.

Chevron Representatives

CHEVRON U.S.A. Inc
CB SE 5 32 FED COM 3 2H
NMNM 119754
SECTION 5, T24S-R29E
SHL 295' FSL & 1567' FWL

SECTION 32, T23S-R29E
BHL 180' FNL & 1254' FWL

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

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:

Decribe 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:

Decribe 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:

AFMSS

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

Bond Info Data Report

05/11/2018

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: