NM OIL CONSERVATION

ARTESIA DISTRICT

Form 3160-3 (June 2015)

OCT 0 4 2019

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

5. Lease Serial No.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

RECEIVED

BUREAU OF LAND MANA	GEMENT	NMNM107369
APPLICATION FOR PERMIT TO DE	RILL OR REENTER	6. If Indian, Allotee or Tribe Name
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Oth	ENTER ner gle Zone Multiple Zone	7. If Unit or CA Agreement, Name and No. CICADA UNIT / NMNM137168X 8. Lease Name and Well No. CICADA UNIT
Name of Operator CHEVRON USA INCORPORATED		9/API-Well No. [7] 9/API-Well No. [7] 30-0/5-46349
	3b. Phone No. (include area code) (432)687-7866	10 Field and Pool, of Exploratory WILDCAT WOLFGAMP / WOLFCAMP, (
 Location of Well (Report location clearly and in accordance with At surface SESW / 210 FSL / 1639 FWL / LAT 32.09443 At proposed prod. zone SWSW / 25 FSL / 1254 FWL / LAT 	33 / LONG -104.163754	11. Sec. T. R. M. of Blk. and Survey or Area SEC 26 1 125S// R27E / NMP
14. Distance in miles and direction from nearest town or post offic 11.5 miles	e*	12. County or Parish 13. State EDDY NM
location to nearest	16. No of acres in lease 17. Spacin	ng.Unit dedicated to this well
18. Distance from proposed location*	19. Proposed Depth 207BLM/ 9270 feet:/.20446 feet FED: CA	/BIA Bond No. in file .0329
3170 feet (22 Approximate date work will start* 04/02/2020	23. Estimated duration 147 days
Wal A V	24. Attachments	
The following, completed in accordance with the requirements of (as applicable)	Onshore Oil and Gas Order No. 1, and the H	lydraulic Fracturing rule per 43 CFR 3162.3-3
Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office).	Lands, the 5. Operator certification.	s unless covered by an existing bond on file (se
25. Signature (Electronic Submission)	Name (Printed/Typed) Laura Becerra / Ph: (432)687-7665	Date 05/03/2019
Title Permitting Specialist		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575)234-5959	Date 09/27/2019
Title Assistant Field Manager Lands & Minerals	Office CARLSBAD	
Application approval does not warrant or certify that the applicant 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, malof the United States any false, fictitious or fraudulent statements or	ke it a crime for any person knowingly and representations as to any matter within its j	willfully to make to any department or agency urisdiction.

(Continued on page 2)

Approval Date: 09/27/2019

*(Instructions on page 2)

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 I: 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 wen, 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 directionany drilled, give distances for subsurface location of hole in any present or objective productive zone.

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

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

NOTICES

The Privacy Act of 1974 and regulation in 43 CER 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(\$,6:396; 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 wen 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 win 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 conects this information to anow 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 Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

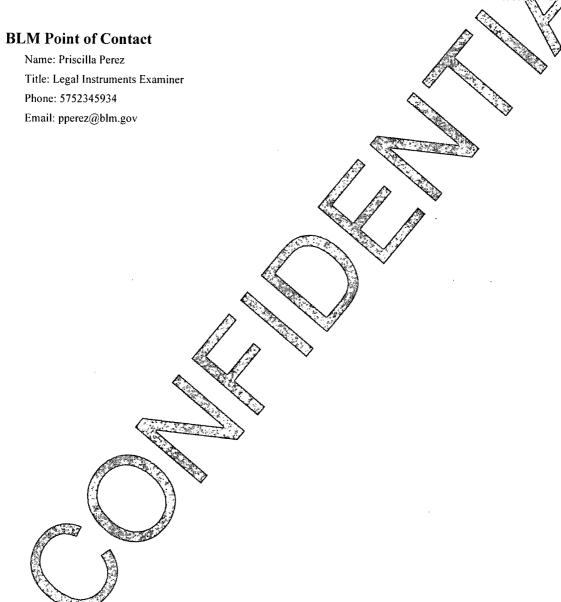
Additional Operator Remarks

Location of Well

1. SHL: SESW / 210 FSL / 1639 FWL / TWSP: 25S / RANGE: 27E / SECTION: 26 / LAT: 32.094433 / LONG: -104.163754 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 100 FNL / 1254 FWL / TWSP: 25S / RANGE: 27E / SECTION: 35 / LAT: 32.093512 / LONG: -104.164976 (FVD: 9270 feet, MD: 9270 feet)

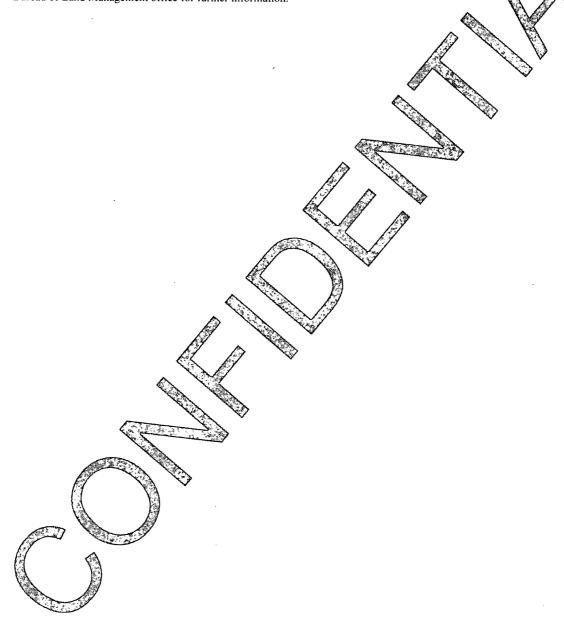
BHL: SWSW / 25 FSL / 1254 FWL / TWSP: 26S / RANGE: 27E / SECTION: 2 / LAT: 32.064011 / LONG: -104.165866 (TVD: 9270 feet, MD: 20446 feet)



(Form 3160-3, page 3)

Review and Appeal Rights

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



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Chevron USA Incorporated

LEASE NO.: | NMNM107369

WELL NAME & NO.: | Cicada Unit 40H SURFACE HOLE FOOTAGE: | 210'/S & 1639'/W

BOTTOM HOLE FOOTAGE: | 2107/S & 16397/W BOTTOM HOLE FOOTAGE | 25'/S & 1254'/W

LOCATION: | Section 26, T.25 S., R.27 E., NMPM

COUNTY: Eddy County, New Mexico

COA

H2S	C Yes	€ No	100
Potash	None	© Secretary	C R-111-P
Cave/Karst Potential	CLow	○ Medium	High
Variance	○ None	Flex Hose	Other
Wellhead	C Conventional	C Multibowl	© Both
Other	14 String Area	Capitan Reef	M WIPP
Other	▼ Fluid Filled	Cement Squeeze	Pilot Hole
Special Requirements	☐ Water Disposal	ГСОМ	☑ Unit

A. HYDROGEN SULFIDE

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

B. CASING

Primary Casing Design:

- 1. The 13-3/8 inch surface casing shall be set at approximately 450 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

Option 1 (Single Stage):

• Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

Option 2:

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

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
 - Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
- ❖ In <u>High Cave/Karst Areas</u> 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:

Option 1 (Single Stage):

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

Option 2:

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

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

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **5000** (**5M**) psi.

Option 2:

- 1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.

- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

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GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Eddy County
 Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
 - ✓ Lea CountyCall 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. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not

- hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

NMK9242019

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PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL TABLE OF CONTENTS CONDITIONS OF APPROVAL

OPERATOR'S NAME: Chevron USA Incorporated

WELL NAME & NO.: | Cicada Unit 37H SURFACE HOLE FOOTAGE: | 210'/S & 1564'/W BOTTOM HOLE FOOTAGE | 25'/S & 330'/W

LOCATION: | Section 26, T.25 S., R.27 E., NMPM

COUNTY: | Eddy County, New Mexico

OPERATOR'S NAME: Chevron USA Incorporated

WELL NAME & NO.: Cicada Unit 38H SURFACE HOLE FOOTAGE: 210'/S & 1589'/W BOTTOM HOLE FOOTAGE 25'/S & 330'/W

LOCATION: | Section 26, T.25 S., R.27 E., NMPM

COUNTY: | Eddy County, New Mexico

OPERATOR'S NAME: | Chevron USA Incorporated

WELL NAME & NO.: | Cicada Unit 39H SURFACE HOLE FOOTAGE: | 210'/S & 1614'/W BOTTOM HOLE FOOTAGE | 25'/S & 1170'/W

LOCATION: | Section 26, T.25 S., R.27 E., NMPM

COUNTY: Eddy County, New Mexico

OPERATOR'S NAME: Chevron USA Incorporated

WELL NAME & NO.: Cicada Unit 40H SURFACE HOLE FOOTAGE: 210'/S & 1639'/W BOTTOM HOLE FOOTAGE 25'/S & 1254'/W

LOCATION: Section 26, T.25 S., R.27 E., NMPM

COUNTY: | Eddy County, New Mexico

TABLE OF CONTENTS

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

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

I. GENERAL PROVISIONS

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

II. PERMIT EXPIRATION

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

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

IV. NOXIOUS WEEDS

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

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

V. SPECIAL REQUIREMENT(S)

Cave/Karst Surface Mitigation

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

Construction:

General Construction:

- No blasting
- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, cave passages, or voids are penetrated during construction, and no additional construction shall occur until clearance has been issued by the Authorized Officer.
- All linear surface disturbance activities will avoid sinkholes and other karst features to lessen the possibility of encountering near surface voids during construction, minimize changes to runoff, and prevent untimely leaks and spills from entering the karst drainage system.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

Pad Construction:

- The pad will be constructed and leveled by adding the necessary fill and caliche no blasting.
- 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 (i.e. an access
 road crossing the berm cannot be lower than the berm height).
- Following a rain event, all fluids will vacuumed off of the pad and hauled offsite and disposed at a proper disposal facility.

Tank Battery Construction:

- The pad will be constructed and leveled by adding the necessary fill and caliche no blasting.
- All tank battery locations and facilities will be lined and bermed.
- The liner should be at least 20 mil in thickness and installed with a 4 oz. felt backing, or equivalent, to prevent tears or punctures.
- Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank.

Road Construction:

- Turnout ditches and drainage leadoffs will not be constructed in such a manner as to alter the natural flow of water into or out of cave or karst features.
- Special restoration stipulations or realignment may be required if subsurface features are discovered during construction.

Buried Pipeline/Cable Construction:

• Rerouting of the buried line(s) may be required if a subsurface void is encountered during construction to minimize the potential subsidence/collapse of the feature(s) as well as the possibility of leaks/spills entering the karst drainage system.

Powerline Construction:

- Smaller powerlines will be routed around sinkholes and other karst features to avoid or lessen the possibility of encountering near surface voids and to minimize changes to runoff or possible leaks and spills from entering karst systems.
- Larger powerlines will adjust their pole spacing to avoid cave and karst features.
- Special restoration stipulations or realignment may be required if subsurface voids are encountered.

Surface Flowlines Installation:

• Flowlines will be routed around sinkholes and other karst features to minimize the possibility of leaks/spills from entering the karst drainage system.

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.

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- A leak detection plan will be submitted to BLM that incorporates an automatic shut off system (see below) to minimize the effects of an undesirable event that could negatively sensitive cave/karst resources.
- Well heads, pipelines (surface and buried), storage tanks, and all supporting equipment should be monitored regularly after installation to promptly identify and fix leaks.

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 groundwater concerns:

Closed Loop System:

- A closed loop system using steel tanks will be utilized during drilling no pits
- All fluids and cuttings will be hauled off-site and disposed of properly at an authorized site

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:

• The kick off point 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 between surface and the base of the cave occurrence zone will be logged and reported in the drilling report.
- If a void of four feet or more and circulation losses greater than 70 percent occur simultaneously while drilling in any cave-bearing zone, regardless of the type of drilling machinery used, 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:

- Additional plugging conditions of approval may be required upon well abandonment in high and medium karst potential occurrence zones.
- The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

Pressure Testing:

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

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

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

VI. CONSTRUCTION

A. NOTIFICATION

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

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

B. TOPSOIL

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

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

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

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

D. FEDERAL MINERAL MATERIALS PIT

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

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

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

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

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

G. ON LEASE ACCESS ROADS

Road Width

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

Surfacing

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

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

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

Crowning

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

Ditching

Ditching shall be required on both sides of the road.

Turnouts

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

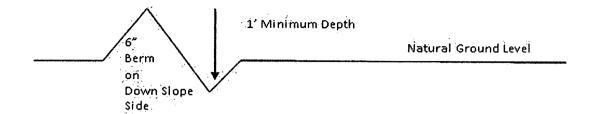
Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill 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

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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:
$$\frac{400'}{402} + 100' = 200'$$
 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
- 3. Redistribute topsoil
- 2. Construct road
- 4. Revegetate slopes

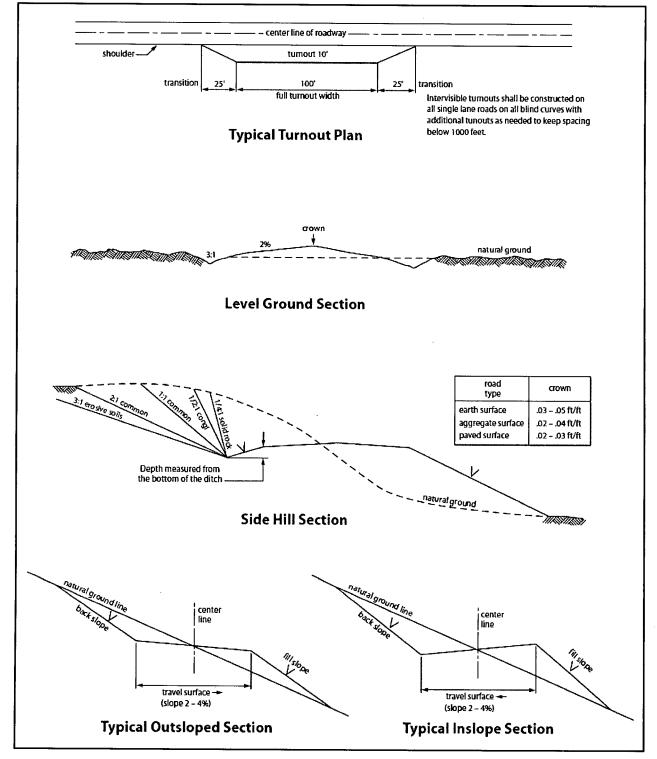


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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 1½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

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

Open-Vent Exhaust Stack Exclosures

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

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

Containment Structures

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

Painting Requirement

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

B. PIPELINES

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

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

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

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

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

- 4. Holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. Holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:
 - a. Activities of Holder including, but not limited to: construction, operation, maintenance, and termination of the facility;
 - b. Activities of other parties including, but not limited to:
 - (1) Land clearing
 - (2) Earth-disturbing and earth-moving work
 - (3) Blasting
 - (4) Vandalism and sabotage;
 - c. Acts of God.

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

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

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

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

- 7. No blading or clearing of any vegetation shall be allowed unless approved in writing by the Authorized Officer.
- 8. Holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky of duney areas, the pipeline shall be "snaked" around hummocks and dunes rather than suspended across these features.
- 9. The pipeline shall be buried with a minimum of _______ inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.
- 10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
- 12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.
- 13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.
- 14. The holder shall not use the pipeline route as a road for purposes other than

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

- 15. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the authorized officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the holder.
- 16. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, powerline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.
- 17. Surface pipelines shall be less than or equal to 4 inches and a working pressure below 125 psi.

STANDARD STIPULATIONS FOR BURIED PIPELINE STIPULATIONS

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

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

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

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

- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
- 4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.
- 5. All construction and maintenance activity will be confined to the authorized right-of-way.
- 6. The pipeline will be buried with a minimum cover of between the top of the pipe and ground level.
- 7. The maximum allowable disturbance for construction in this right-of-way will be **30** feet:
 - Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed <u>20</u> feet. The trench is included in this area. (Blading is defined as the complete removal of brush and ground vegetation.)
 - Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed <u>30</u> feet. The trench and bladed area are included in this area. (Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.)

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

- The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (Compressing can be caused by vehicle tires, placement of equipment, etc.)
- 8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately ____6___ inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.
- 9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.
- 11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
- 12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

(X) seed mixture 1	() seed mixture 3
() seed mixture 2	() seed mixture 4
() seed mixture 2/LPC		() Aplomado Falcon Mixture

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

- 14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.
- 15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.
- 16. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.
- 17. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.
- 18. <u>Escape Ramps</u> The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:
 - a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
 - b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

VIII. INTERIM RECLAMATION

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

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

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

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

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

IX. FINAL ABANDONMENT & RECLAMATION

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

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

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

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

Seed Mixture 1 for Loamy Sites

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

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

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

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

*Pounds of pure live seed:

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



Midwest Hose & Specialty, Inc.

Internal Hydrostatic Test Certificate

		tic Test Certificate	? .
General Inform	nation	Hose Speci	fications 😘 🐫 🖏
Customer	PATTERSON UTI	Hose Assembly Type	Choke & Kill
MWH Sales Representative	ABYGAIL LOGAN	Certification	API 7K/FSL LEVEL2
Date Assembled	1/11/2018	Hose Grade	RED
Location Assembled	OKC	Hose Working Pressure	10000
Såles Order #	356503	Hose Lot # and Date Code	12860-09/17
Customer Purchase Order #	PO43901 RIG 257	Hose I.D. (Inches)	3.0"
Assembly Serial # (Pick Ticket #)	441774-1	Hose O.D. (Inches)	5.36"
Hose Assembly Length	.60'	Armor (yes/no)	NO
	用切	ings .	
End A		End	В
Stem)(Part and Revision#)	R3:0X64AWB	Stem:(Part and Revision #)	R3!0X64AWB
tem((Heat#)	MM17710	Stem (Heat #)	MM17710
Ferrule (Part and Revision #)	RF3.0X5125	Ferrule (Part and Revision #)	RF3.0X5125
Ferrule (Heat #)	60864472	Ferrule (Heat #)	60864472
Onnection Flange Hammer Union Part	4-1/16 10K	Connection (Part #)	4-1/16-10K
Onnection(Heat#)		Connection (Heat#)	
Nút (Part #)		Nut (Part#)	
Vut (Heat#)		Nut (Heat #)	
Dies Used	5.37"	Dies Used	5.37"
	Hydrostatic Tes	t Requirements	
est Pressure (psi)	15,000	Hose assembly was tested	d with ambient water
Test Pressure Hold Time (minutes)	16 1/4	tempera	
Test Pressure (ps) Test Pressure Hold Time (minutes)	Hydrostatic Tes	t Requirements Hose assembly was tested	d with ambien
Date Tested	Tested	Bu I	Amerouad Pu
1/11/2018	restea	3 A	Approved By



Midwest Hose & Specialty, Inc.

		e of Conformi		
Customer: PATTERSON	U TI	Customer P.O.I	7 PO43901 R	RIG 257
Sales Order # 356503	The same of the sa	Date Assemble	d: 1/11/2018	
	- Spec	cifications		
Hose Assembly Type:	Choke & Kill	Rig #	257	
Assembly Serial #	441774-1	Hose Lot # an	d Date Code	12860-09/17
Hose Working Pressure (psi)	10000	Test Press	ure (psi)	15000
Hose Assembly Description:	CKR	ED48-10K-6410K-64	10K-60:00' FT	r-W/LIFTERS
 	· · · · · · · · · · · · · · · · · · ·	·		
Ve hereby certify that the above the requirements of the purc				er to be true according
Ve hereby certify that the above the requirements of the purc				er to be true according
o the requirements of the purc upplier:	hase order and curi			er to be true according
o the requirements of the purc upplier: Aidwest Hose & Specialty, Inc.	hase order and curi			er to be true according
o the requirements of the purc upplier:	hase order and curi			er to be true according
o the requirements of the purc upplier: Aidwest Hose & Specialty, Inc. 312 S I-35 Service Rd	hase order and curi			er to be true according
o the requirements of the purc upplier: Midwest Hose & Specialty, Inc. 312 S I-35 Service Rd klahoma City, OK 73129	hase order and curi			er to be true according
o the requirements of the purc upplier: Midwest Hose & Specialty, Inc. 312 S I-35 Service Rd klahoma City, OK 73129	hase order änd curi			

MHSI-009 Rev.0.0 Proprietary

January 11, 2018



Internal Hydrostatic Test Graph

Customer: Patterson

Pick Ticket #: 441774

Midwest Hose & Specialty, Inc.

Hose Specifications

Verification

Hose Type
C&K
LD.
3"
Working Pressure

10000 PSI

Length

60'

Q.D.

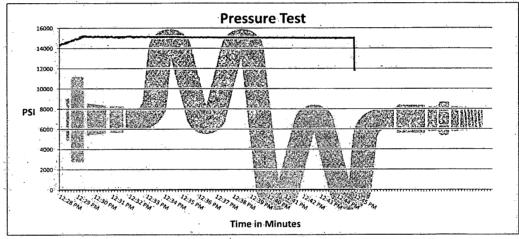
4.84"

Burst Pressure

Standard Safety Multiplier Applies

Type of Fitting 4 1/16 10K Die Size 5:37" Hose Serial # 12860 Coupling Method
Swage
Final O.D.
5.37"
Hose Assembly Serial #

441774-1



Test Pressure 15000 PSI Time Held at Test Pressure 16:1/4 Minutes Actual Burst Pressure

Peak Pressure 15351 PSI

Comments: Hose assembly pressure tested with water at ambient temperature.

Tested By: Zach Tillman

Approved By: James Hawkins

79ACO

BLOWOUT PREVENTER SCHEMATIC

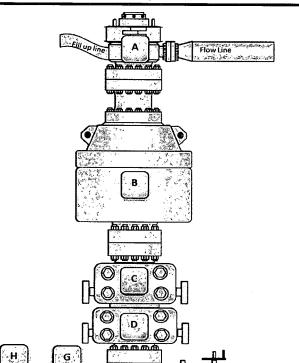
Operation:

Intermediate & Production

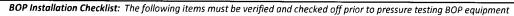
Minimum System operation pressure

5,000 psi

		BOP Stack	
Part	Size	Pressure Description	
Α	13-5/8"	N/A	Rotating Head/Bell nipple
В	13-5/8"	5,000	Annular
С	13-5/8"	5,000	Blind Ram
D	13-5/8"	5,000	Pipe Ram
E	13-5/8"	5,000	Mud Cross
F	13-5/8"	5,000	Pipe Ram
		<u>Kill Line</u>	
Part	Size	Pressure	Description
- art		Rating	Description
G	2"	5,000	Inside Kill Line Valve (gate
Ľ		3,000	valve)
ΙнΙ	2"	5,000	Outside Kill Line Valve
		3,000	(gate valve)
	2"	5,000	Kill Line Check valve



		Choke line	
Part	Size	Pressure	Description
Part	3126	Rating	Description
J	3"	5,000	HCR (gate valve)
К	3"	5,000	Manual HCR (gate valve)
		Wellhead	
Part	Size	Pressure	Description
1 61 0	3126	Rating	Description
L	13-5/8"	5,000	FMC 5M/10M wellhead



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

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

The kill line and choke line will be straight unless turns use tee blocks or are targeted with running tees, and will be anchored to prevent whip and reduce vibration.

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

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

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

CHOKE MANIFOLD SCHEMATIC

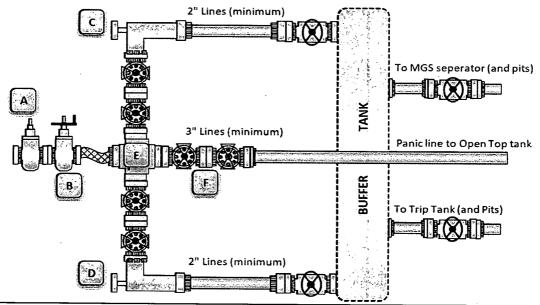
Operation: Int

Intermediate & Production

Minimum System operation pressure

5,000 psi

		Choke Manif	old
Part	Size	Pressure Rating	Description
Α	3"	5,000	HCR (remotely operated)
В	3"	5,000	HCR (manually operated)
С	2"	5,000	Remotely operated choke
D	2"	5,000	Adjustable choke
E	3"	5,000	Crown valve with pressure gage
F	3"	5,000	Panic line valves



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

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

Adjustable chokes may be remotely operated but will have backup hand pump for hydraulic actuation in case of loss of rig air or power.

Flare and panic lines will terminate a minimum of 150' from the wellhead. These lines will terminate at a location as per approved APD.

The choke line, kill line and choke manifold lines will be straight unless turns use tee blocks or targeted with running tees, and will be anchored to prevent whip and reduce vibrations. A variance will be submitted if a flexible choke line will be used.

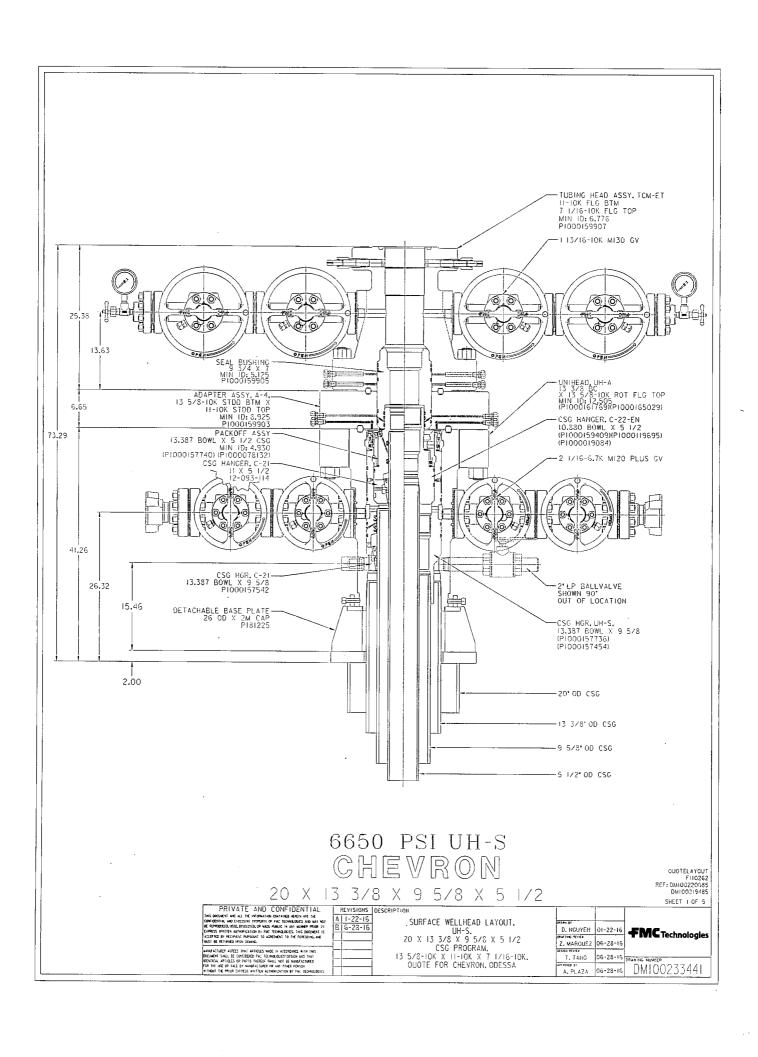
All valves (except chokes) on choke line, kill line and choke manifold will be full opening and will allow straight through flow. This excludes any valves between the mud gas separator and shale shakers.

All manual valves will have hand wheels installed.

Flare systems will have an effective method for ignition.

All connections will be flanged, welded or clamped

If buffer tank is used, a valve will be used on all lines at any entry or exit point to or from the buffer tank.



BLOWO	BLOWOUT PREVENTER SCHEMATIC					
Operation:		Intermediate & Production				
Minimum System operation pre	ssure	5,000 psi				

		Minin	num Requirer	nents	
		Closing Unit a	nd Accumulat	or Checklist	
	The following in pressure testing	tem must be performed g of BOP equipment. T	, verified, and check	ed off at least once pe	r well prior to low/high same well.
	Precharge pressure for with nitrogen gas only. through the end of the w	Tested precharge pres	sures must be recor	ded for each individual	may be further charged bottle and kept on location
Che- one t appli	hat Accumulator working	Minimum acceptable operating pressure	Desired precharge pressure	Maximum acceptable precharge pressure	Minimum occeptable precharge pressure
	1500 psi	1500 psi	750 psi	800 psi	700 psi
	2000 psi	2000 psi	1000 psi	1100 psi	900 psi
	3000 psi	3000 psi	1000 psi	1100 psi	900 psi
	will be maintained at ma	voir will be double the connecturer's recomme fluid level will be recor f of the well.	usable fluid volume on ndations. Usable flu ded along with man	of the accumulator sysid volume will be reconficient	tem capacity. Fluid level ded: Reservior copacity will ation. All will be kept on bottles) to close the
	Power for the closing un	manifold pressure deor	eases to the pre-set	times so that the pum level. It is recommend	os will automatically start led to check that air line to
	With accumulator bottle (if used) plus close the a psi above maximum acc closing time will be reco	innular preventer on the	e smallest size drill ssure (see table abo	pipe within 2 minutes a	y-operated choke line valve and obtain a minimum of 200 fold. Tost pressure and
	Master controls for the I all preventer and the ch	BOPE system will be lo oke line valve (if used)	cated at the accumu	lator and will be capal	le of opening and closing
	Remote controls for the floor (not in the dog hou	BOPE system will be re se). Remote controls w	eadily accessible (cl vill be capable of clo	ear path) to the driller sing all preventers.	and located on the rig
	Record accumulator tes	ts in drilling reports an	d IADC shoot		

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BOPE 5K Test Checklist

The following items must be checked off prior to beginning test: ☐ BLM will be given at least 4 hour notice prior to beginning BOPE testing. ☐ Valve on casing head below test plug will be open. ☐ Test will be performed using clear water. The following items must be performed during the BOPE testing: ☐ BOPE will be pressure tested when initially installed, whenever any seal subject to test pressure is broken, following related repairs, and at a minimum of 30 day intervals. Test pressure and times will be recorded by a 3rd party on a test charge and kept on location through the end of the well. ☐ Test plug will be used. Ram type preventer and all related well control equipment will be tested to 250 psi (low) and 5,000 psi (high). ☐ Annular type preventer will be tested to 250 psi (low) and 3,500 psi (high). U Valves will be tested fromt en working pressure side with all downstream valves open. The check valve will be held open to test the kill line valve(s). Each pressure test will be held for 10 minutes with no allowable leak off. ☐ Master controls and remote controls to the closing unit (accumulator) must be function tested as part of the BOPE test. Record BOP tests and pressures in drilling reports and IADC sheet.

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

May 31 2017 — Version vctp3.11 **Authenticate**



Connection: TenarisXP® BTC

Casing/Tubing: CAS

Coupling Option: REGULAR

Size: 5.500 in. Wall: 0.361 in. Weight: 20.00 lbs/ft

Grade: P110-IC

Min. Wall Thickness: 87.5 %

		GEOME	rry			
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					
		PERFORM	ANCE	•		
Body Yield Strength	641 x 1000 lbs	Internal Yield	12630 psi	SMYS	110000 psi	
Collapse	12100 psi					
		NADICVOS STORES	NINE CTTON			
		NARISXP® BTC CO		PATA		
Connection OD	C 100 in	GEOMET		T_		
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.	
		PERFORM	ANCE			
Tension Efficiency	100 %	Joint Yield Strength	641 x 1000 lbs	Internal Pressure Capacity $^{(\underline{1})}$	12630 psi	
Structural Compression Efficiency	100 %	Structural Compression Strength 641 x 1000 Ibs		Structural Bending ⁽²⁾	92 °/100 ft	
External Pressure Capacity	12100 psi					
	E	STIMATED MAKE-U	P TORQUES	(3)		
Minimum	11270 ft-lbs	Optimum	12520 ft-lbs	Maximum	13770 ft-lb	
		OPERATIONAL LIN	IT TORQUES	3		
	21500 & 15-	Yield Torque	23900 ft-lbs			
Operating Torque	21500 ft-lbs	rieid forque	23900 10-105	<u> </u>		

- (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 $compounds \ please \ contact \ us \ at \ \underline{licensees@oilfield.tenaris.com}. \ Torque \ values \ may \ be \ further \ reviewed.$ For additional information, please contact us at $\underline{contact\text{-}tenaris\text{-}hydril@tenaris.com}$



Casing and Tubing Performance Data

PIPE BODY DATA

GEOMETE	31

			GEOMETRY		
Outside Diameter	13.375 in	Wall Thickness	0.380 in	API Drift Diameter	12.459 in
Nominal Weight	al Weight 54.50 lbs/ft Nominal ID		12.615 in	Alternative Drift Diameter	n.a.
Plain End Weight	n End Weight 52.79 lbs/ft Nominal cross section 15.6		15.513 in		
		P	ERFORMANCI		VX 1
Steel Grade	J55	Minimum Yield	55,000 psi	Minimum Ultimate	75,000 psi
Tension Yield	Tension Yield 853,000 in Internal Pressure Yield		2,730 psi Collapse Pressure		1,130 psi
Available Seamless	Yes	Available Welded	Yes		
		CON	NECTION DA	TA	
TYPE: STC			GEOMETR)		
Coupling Reg OD	14.375 in	Threads per in	8	Thread turns make up	3.5
and the same of	and the second s	P	ERFORMANCI		and the second s
Steel Grade	J55	Coupling Min Yield	55,000 psi	Coupling Min Ultimate	75,000 psi
Joint Strength	514,000 lbs			Internal Pressure Resistance	2,730 psi

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

February 08 2017



Casing/Tubing: CAS

Connection: TenarisXP® BTC

Coupling Option: REGULAR

Size: 9.625 in.

Wall: 0.435 in.

Weight: 43.50 lbs/ft

Grade: L80.1

Min. Wall Thickness: 87.5 %

		GEOME	rry			
Nominal OD	9.625 in.	Nominal Weight	43.50 lbs/ft	Standard Drift Diameter	8.599 in.	
Nominal ID	8.755 in.	Wall Thickness	0.435 in.	Special Drift Diameter	N/A	
Plain End Weight	42.73 lbs/ft					
		PERFORM	ANCE			
Body Yield Strength	1005 x 1000	Internal Yield	6330 psi	SMYS	80000 psi	
Collapse	3810 psi					
	TEN	IARISXP® BTC CO	NNECTION D	\TA		
		GEOMET		NIA		
Connection OD	10.625 in.	Coupling Length	10.825 in.	Connection ID	8.743 in.	
Critical Section Area	12.559 sq. in.	Threads per in.	5.00	Make-Up Loss	4.891 in.	
		PERFORM	ANCE	<u> </u>		
Tension Efficiency	100 %	Joint Yield Strength	1005 x 1000	Internal Pressure Capacity ⁽¹⁾	6330 psi	
Structural Compression Efficiency	100 %	Structural Compression Strength	1005 x 1000	Structural Bending ⁽²⁾	38 °/100 f	
External Pressure Capacity	3810 psi					
	E:	STIMATED MAKE-L	JP TORQUES(3)		
Minimum	20240 ft-lbs	Optimum	22490 ft-lbs	Maximum	24740 ft-l	
		OPERATIONAL LIM	IT TORQUES	•	-	
			****	T		

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 $compounds \ please \ contact \ us \ at \ \underline{licensees@oilfield.tenaris.com}. \ Torque \ values \ may \ be \ further \ reviewed.$ For additional information, please contact us at $\underline{contact\text{-}tenaris\text{-}ydril@tenaris.com}$

CONFIDENTIAL -- TIGHT HOLE DRILLING PLAN PAGE: 1

1. FORMATION TOPS

The estimated tops of important geologic markers are as follows:

FORMATION	SUB-SEA TVD	KBTVD	MD
Castile		954	
Lamar	_	2,290	-
Bell Canyon		2,334	
Cherry Canyon		3,122	
Brushy Canyon		4,247	
Avalon		6,005	
First Bone Spring		6,852	
Second Bone Spring		7,293	
Third Bone Spring		8,632	
Wolfcamp A		8,974	-
Wolfcamp A Target		9,270	20446
Wolfcamp C		9,861	

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

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

Substance	Formation	Depth
Deepest Exp	ected Base of Fresh Water	450
Water	Castile	954
Water	Cherry Canyon	3,122
Oil/Gas	Brushy Canyon	4,247
Oil/Gas	Avalon	6,005
Oil/Gas	First Bone Spring	6,852
Oil/Gas	Second Bone Spring	7,293
Oil/Gas	Third Bone Spring	8,632
Oil/Gas	Wolfcamp A	8,974
Oil/Gas	Wolfcamp C	9,270

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

3. **BOP EQUIPMENT**

Chevron will have a minimum of a 5,000 psi rig stack (see proposed schematic) for drill out below surface casing. The Wolfcamp is not exposed until drill out of the intermediate casing, and the stack will be tested as specified in the attached testing requirements for 5K Stacks. Batch drilling of the surface, intermediate, and production will take place. A full BOP test will be performed unless approval from BLM is received otherwise. Flex choke hose will be used for all wells on the pad (see attached specs). Chevron requests a variance to use a CoFlex hose with a metal protective covering that will be utilized between the BOP and Choke manifold. Please refer to the attached testing and specification documents. BOP test will be conducted by a third party.

Chevron requests a variance to use a FMC Technologies UH-S Multibowl wellhead, which will be run through the rig floor on surface casing. BOPE will be nippled up and tested after cementing surface casing. Subsequent tests will be performed as needed, not to exceed 30 days. The field report from FMC Technologies and BOP test information will be provided in a subsequent report at the end of the well. Please see the attached wellhead schematic. An installation manual has been placed on file with the BLM office and remains unchanged from previous submittal.

4. CASING PROGRAM

a. The proposed casing program will be as follows:

Purpose	From	То	Hole Size	Csg Size	Weight	Grade	Thread	Condition
Surface	0'	450'	17-1/2"	_13-3/8"	54.5#	J-55	BTC	New
Intermediate	0'	8,732'	12-1/4"	9-5/8"	43.5#	L-80IC	LTC	New
Production	0'	20,446'	8-1/2"	5-1/2"	20.0#	P-110	TXP BTC	New

b. Casing design subject to revision based on geologic conditions encountered and actual formation tops.

***A "Worst Case" casing design for wells in a particular area is used below to calculate the Casing Safety Factors. If for any reason the casing design for a particular well requires setting casing deeper than the following "worst case"

c. design, then the Casing Safety Factors will be recalculated & sent to the BLM prior to drilling.

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

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

Surface Casing:

450' TVD

Intermediate Casing:

9241' TVD

Intermediate Liner Casing 10369' TVD **Production Casing:**

21,291' MD/10,369' TVD

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

For alternate casing design with contingency:

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

Intermediate Enic	2.10	2.01	i i	2.11	l l	2.51
Production	1.11	1.70		1.71		1.20
The following w	orst case load cases	were considered for	r calcul	ation of the	above Min.	Safety Factor
Burst Design			Surf	Int	Liner	Prod
Pressure Test- S	urface, Int, Prod Csg		Х	Х	×	X
P external:	Mud weight above To	DC, PP below				ł
		n heaviest mud in csg	1	İ		- I ·
Displace to Gas-			Х			
P external:	Mud weight above TO	DC, PP below	ŀ			
	Dry Gas from Next C				ر	
Gas over mud (60	0/40) - Int Csg/Liner			X	Х	
P external:	Mud weight above TO	DC, PP below	1			
P internal:	60% gas over 40% m	ud from hole TD PP	1			
Stimulation (Frac) Pressures- Prod Csg]				X
P external:	Mud weight above TO	DC, PP below		İ		
P internal:	Max inj pressure w/ h	eaviest injected fluid				
Tubing leak- Prod	Csg (packer at KOP)				X
P external:	Mud weight above TO	DC, PP below				
P internal:	Leak just below surf,	8.45 ppg packer fluid			1	
Collapse Design	1		Surf	Int	Liner	Prod
Full Evacuation			X	×	X	X
P external:	Mud weight gradient					
P internal:						
Cementing- Surf,	Int, Prod Csg		X	X	X	X
P external:	Wet cement		İ		1	•
P internal:	displacement fluid - w	rater		_]		
Tension Design			Surf	Int	Liner	Prod
100k lb overpull			X	X	X	X

ONSHORE ORDER NO. 1 Chevron CICADA UNIT 40H Eddy County, NM 5. CEMENTING PROGRAM CONFIDENTIAL -- TIGHT HOLE DRILLING PLAN PAGE: 3

Slurry	Туре	Тор	Bottom	Weight	Yield	%Excess	Sacks	Water	Volume	Additives
Surface				(ppg)	(cu ft/sk)	Open Hole		igal/sk ≧	bbls:	
Tail		0'	450'	14.8	1.33	50	492	6.32	117	Extender, Antifoam, Retarder
Intermedia	te:Csq:='Stage:1	T	1		i Menderate					
Lead	Class C	2,097'	7,732'	11.9	2.5	100	1411	13.95	629	Extender, Antifoam, Retarder, Viscosifier
Tail		7,732'	8,732'	14.8	1.33	50	381	6.30	90	Extender, Antifoam, Retarder, Viscosifier
Intermedia	te Csg - Stage 2	(DV tool @	+/- 2097')				9 2 10	15 (45)	of the second	72.00
Lead	Class C	0'	1,597'	11.9	2.47	100	359	14.00	158	Extender, Antifoam, Retarder, Viscosifier
Tail	Class C	1,597'	2,097'	14.8	1.33	50	176	6.32	42	Extender, Antifoam, Retarder, Viscosifier
Production		- 10 m					10000	性/表示。	19.44.19.19	
Lead	Class C	8,432'	19,446'	13.2	1.84	100	2707	9.77	888	Extender, Antifoam, Retarder, Viscosifier
Tail	Class H	19,446'	20,446'	15	2.19	50	214	9.57		Extender, Antifoam, Retarder, Viscosifier

- 1. Final cement volumes will be determined by caliper.
- 2. Surface casing shall have at least one centralizer installed on each of the bottom three joints starting with the shoe joint.
- 3. Production casing will have one horizontal type centralizer on every joint for the first 1000' from TD, then every other joint to EOB, and then every third joint to KOP. Bowspring type centralizers will be run from KOP to intermediate casing. No centralizers will be run on the 5.5" csg inside the liner for four string designs.
- 4. Intermediate casing cement job will be a 2 stage job with DV tool set at the base of Lamar.

From	То	Туре	Weight	Viscosity	Filtrate	Notes
0'	450'	Spud Mud	8.3 - 8.9	28-30	N/C	
450'	8,732'	OBM	8.7 - 9.6	10-20	10-12	
0.700	00.440					Due to wellbore stability, the mud program may exceed the MW weight window needed to maintain
8,732'	20,446'	OBM	9-13.6	10-15	15-25	overburden of pore pressure.

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

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

A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH.

Visual mud monitoring equipment shall be in place to detect volume changes indicating loss or gain of circulating fluid volume. When abnormal pressures are anticipated -- a pit volume totalizer (PVT), stroke counter, and flow sensor will be used to detect volume changes indicating loss or gain of circulating fluid volume.

A weighting agent and lost circulating material (LCM) will be onsite to mitigate pressure or lost circulation as hole conditions dictate.

7. TESTING, LOGGING, AND CORING

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

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

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

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

8. ABNORMAL PRESSURES AND HYDROGEN SULFIDE

- a. No abnormal pressure or temperatures are expected. Estimated BH 4,516 psi
- b. Hydrogen sulfide gas is not anticipated. An H2S Contingency plan is attached with this APD in the event that H2S is encountered



CICADA UNIT 37H, 38H, 39H, 40H

Training

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

Awareness Level

Employees and visitors to MCBU Drilling and Completions locations that have known concentrations of 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 H₂S
- 2. Health hazards of H2S
- 3. Personal protective equipment
- 4. Information regarding potential sources of H₂S
- 5. Alarms and emergency evacuation procedures

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

Advanced Level H₂S Training

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

Advanced 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.



H₂S 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 upwind from the well at all times. Upon recognition of an emergency situation, all personnel should assemble at the designated upwind briefing areas for instructions.

H₂S Equipment

Respiratory Protection

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

Visual Warning System

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

H₂S Detection and Monitoring System

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



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

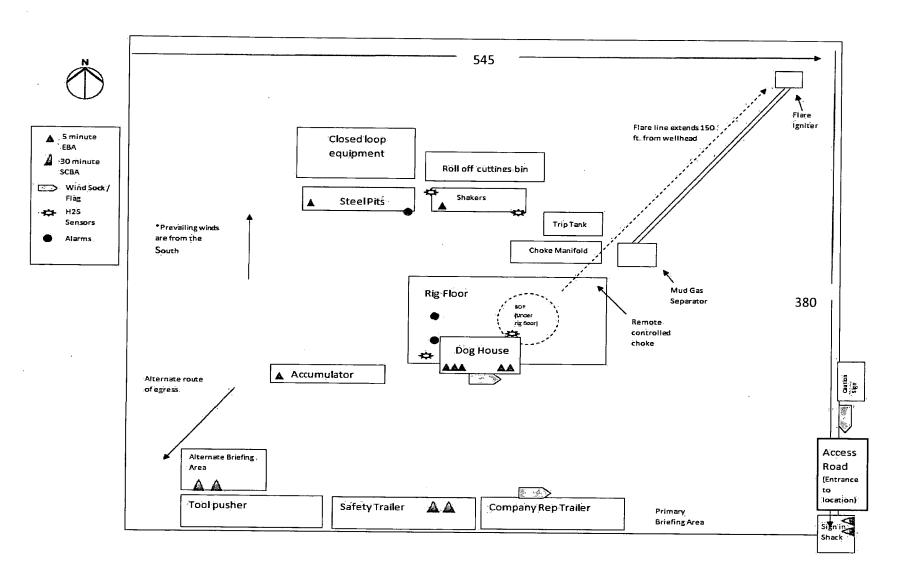
In the event of drilling, completions, workover and well servicing operations involving a hydrogen sulfide concentration of 100 ppm or greater the following shall be considered:

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

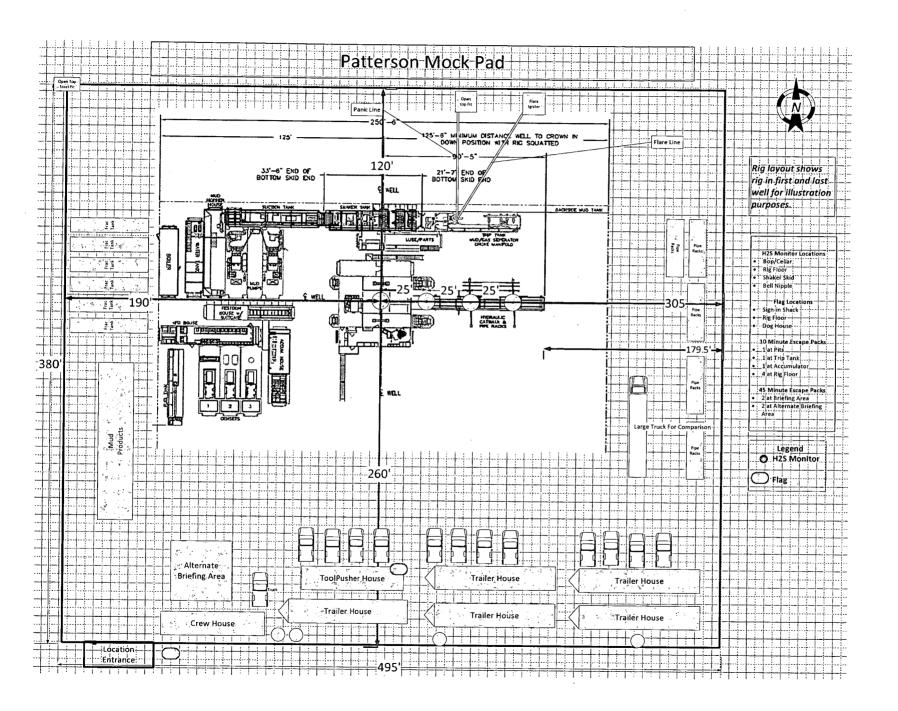
Public Safety - Emergency Assistance

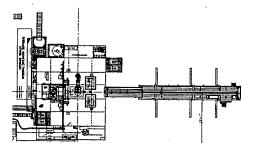
Agency	Telephone Number
Eddy County Sheriff's Department	575-887-7551
Carlsbad Fire Department	575-885-3125
Carlsbad Medical Center	575-887-4100
Eddy County Emergency Management	575-885-3581
Poison Control Center	800-222-1222





Page 4 of 4





.

Schlumberger

Chevron Cicada Unit 40H Rev0 kFc 09Apr19 Proposal Geodetic Report



(Def Plan)

Report Date:

Client: Field:

Structure / Slot: Chevron Cicada Unit Pkg 12 / 40H

Well: Borehole: UWI / API#:

Cicada Unit 040H Unknown / Unknown

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

Coordinate Reference System:

Location Grid N/E Y/X:

CRS Grid Convergence Angle: Grid Scale Factor:

Version / Patch:

April 12, 2019 - 12:16 PM

NM Eddy County (NAD 27)

Cicada Unit 040H

Chevron Cicada Unit 40H Rev0 kFc 09Apr19 April 09, 2019 133.530 ° / 11875.813 ft / 6.544 / 1.281

NAD27 New Mexico State Plane, Eastern Zone, US Feet N 32° 5' 39.51588", W 104° 9' 47.74563"

N 398075.000 ftUS, E 552667.000 ftUS 0.0904 °

0.99991227 2.10.753.0

Survey / DLS Computation: Vertical Section Azimuth: Vertical Section Origin: TVD Reference Datum:

TVD Reference Elevation: Seabed / Ground Elevation: Magnetic Declination: Total Gravity Field Strength:

Gravity Model: Total Magnetic Field Strength:

Magnetic Dip Angle: Declination Date: Magnetic Declination Model:

North Reference: Grid Convergence Used: Total Corr Mag North->Grid North: Local Coord Referenced To:

Minimum Curvature / Lubinski 181.390 ° (Grid North) 0.000 ft, 0.000 ft RKB = 28ft

3198,000 ft above MSL 3170,000 ft above MSL 7.196°

998.4398mgn (9.80665 Based) GARM

47836.636 nT 59.754 ° April 09, 2019 HDGM 2019 Grid North 0.0904 °

7.1051°

Well Head

					Loc	al Coord Referer	iced To: We	ell Head				
Соттель	MD	Incl	Azim Grid	TVD	VSEC	NS	EW	DLS	Northing	Easting	Latitude	Longitude
Surface	0.00	0.00	0.00	(ft) 0.00	(ft)	(ft)	(ft)	(°/100ft)	(ftUS)	(ftUS)	(N/S • ' ")	(E/W * ' ")
	100.00	0.00	332.75	100.00	0.00 0.00	0.00	0.00	N/A	398075.00	552667.00	N 32 5 39,52 W 10	9 47.75
	200.00	0.00	332.75	200.00	0.00	0.00	0.00	0.00	398075.00 398075.00	552667.00 552667.00	N 32 5 39.52 W 10	
	300.00	0.00	332.75	300.00	0.00	0.00	0.00	0.00	398075.00	552667.00	N 32 5 39.52 W 10 N 32 5 39.52 W 10	
42.2/01/0	400.00	0.00	332.75	400.00	0.00	0.00	0.00	0.00	398075.00	552667.00	N 32 5 39.52 W 10	
13 3/8" Casing	450.00 500.00	0.00	332.75	450.00	0.00	0.00	0.00	0.00	398075.00	552667.00	N 32 5 39.52 W 10	
	600.00	0.00	332.75 332.75	500.00 600.00	0.00	0.00	0.00	0.00	398075.00	552667.00	N 32 5 39.52 W 10	9 47.75
	700,00	0.00	332.75	700.00	0.00 0.00	0.00 0.00	0.00	0.00	398075.00	552667.00	N 32 5 39.52 W 10	
	800.00	0.00	332.75	800.00	0.00	0.00	0.00 0.00	0.00 0.00	398075.00	552667.00	N 32 5 39.52 W 10	
	900.00	0.00	332.75	900.00	0.00	0.00	0.00	0.00	398075.00 398075.00	552667.00 552667.00	N 32 5 39.52 W 10 N 32 5 39.52 W 10	
Castile (CSTL)	954.00	0.00	332.75	954.00	0.00	0.00	0.00	0.00	398075.00	552667.00	N 32 5 39.52 W 10 N 32 5 39.52 W 10	
	1000.00	0.00	332.75	1000.00	0.00	0.00	0.00	0.00	398075.00	552667.00	N 32 5 39.52 W 10	
Build 1.5°/100ft	1100.00 1200.00	0.00 0.00	332.75	1100.00	0.00	0.00	0.00	0.00	398075.00	552667.00	N 32 5 39.52 W 10	
Dano 1.5 710011	1300.00	1.50	332.75 332.75	1200.00 1299.99	0.00	0.00	0.00	0.00	398075.00	552667.00	N 32 5 39.52 W 10	
	1400.00	3.00	332.75	1399.91	-1.15 -4.59	1.16 4.65	-0.60 -2.40	1.50	398076.16	552666.40	N 32 5 39.53 W 10	
	1500.00	4.50	332.75	1499.69	-10.33	10.47	-2.40 -5,39	1.50 1.50	398079.65 398085.47	552664.60	N 32 5 39.56 W 10	
	1600.00	6.00	332.75	1599.27	-18.36	18.60	-9.58	1.50	398093.60	552661.61 552657.42	N 32 5 39.62 W 10 N 32 5 39.70 W 10	
	1700.00	7.50	332.75	1698.57	-28.68	29.05	-14,96	1.50	398104.05	552652.04	N 32 5 39.80 W 10	
Hold	1800.00	9.00	332.75	1797.54	-41.27	41.81	-21.54	1.50	398116.80	552645,47	N 32 5 39.93 W 10	
Hold	1900.01 2000.00	10.50 10.50	332.75	1896.10	-56.14	56.86	-29.29	1.50	398131.86	552637.71	N 32 540.08 W 10	
	2100.00	10.50	332.75	1994.41	-72.13	73.06	-37.64	0.00	398148.06	552629.37	N 32 5 40.24 W 10	
	2200.00	10.50	332.75 332.75	2092.74	-88.12	89.26	-45.98	0.00	398164.25	552621.02	N 32 5 40.40 W 10	4 9 48.28
	2300.00	10.50	332.75	2191.06 2289.39	-104.11 -120.11	105,46 121.66	-54.33	0.00	398180.45	552612.68	N 32 5 40.56 W 10	
Lamar (LMAR)	2300.62	10.50	332.75	2290.00	-120.11	121.76	-62.67 -62.72	0.00	398196.65	552604.33	N 32 5 40.72 W 10	
Bell Canyon (BLCN)	2345.37	10.50	332.75	2334.00	-127.36	129,01	-66.46	0.00 0.00	398196.75 398204.00		N 32 5 40.72 W 10	
(BLCN)	2400.00	10.50	332.75	2387.72	-136.10	137.86	-71.02	0.00			N 32 540.79 W 10	
	2500.00	10.50	332.75	2486.04	-152.10	154.07	-71.02	0.00	398212.85 398229.05	552595.99 552587.65	N 32 5 40.88 W 10 N 32 5 41.04 W 10	4 9 48.57 4 9 48 67
	2600.00	10.50	332.75	2584.37	-168.09	170.27	-87.71	0.00	398245.25	552579.30	N 32 541.04 W 10 N 32 541.20 W 10	
	2700.00	10.50	332.75	2682.69	-184.08	186.47	-96.05	0.00	398261,45	552570.96	N 32 541.36 W 10	
	2800.00	10,50	332.75	2781.02	-200.08	202.67	-104.40	0.00	398277.65		N 32 541.52 W 10	
	2900.00 3000.00	10.50	332.75	2879.34	-216.07	218.87	-112.74	0.00	398293.85	552554.27	N 32 541.68 W 10	
	3100.00	10.50 10.50	332.75 332.75	2977,67 3075,99	-232.06	235.07	-121.09	0.00	398310.05		N 32 541.84 W 10	
Cherry Canyon	3146.79	10.50	332.75	3122.00	-248.06 -255.54	251.27 258.85	-129.43	0.00	398326.25		N 32 5 42.00 W 10	
(CRCN)	3200.00	10.50	332.75	3174.32			-133.34	0.00	398333.83		N 32 5 42.08 W 10	
	3300.00	10.50	332.75	3272.64	-264.05 -280.04	267.47 283.67	-137.78	0.00	398342.45		N 32 5 42.16 W 10	
	3400.00	10.50	332.75	3370.97	-296.04	299.87	-146.12 -154.47	0.00	398358.65	552520.89	N 32 5 42.33 W 10	
	3500.00	10.50	332.75	3469.30	-312.03	316.07	-162.81	0.00	398374.85 398391.05	552512.55 552504.20	N 32 5 42.49 W 10 N 32 5 42.65 W 10	
Drop 1.5°/100ft	3546.69	10.50	332.75	3515.20	-319.50	323.64	-166.71	0.00	398398.61		N 32 5 42.65 W 10 N 32 5 42.72 W 10	
	3600.00	9.70	332.75	3567,69	-327.70	331.95	-170.99	1.50	398406.92		N 32 5 42.80 W 10	
	3700.00 3800.00	8.20 6.70	332.75	3666.47	-341.36	345.78	-178.11	1.50	398420.75		N 32 5 42.94 W 10	
	3900.00	5.20	332.75 332.75	3765.62	-352.74	357.31	-184.05	1.50	398432.27		N 32 5 43.05 W 10-	4 9 49.88
	4000.00	3.70	332.75	3865.08 3964.77	-361.83 -368.64	366.52 373.42	-188.80	1.50	398441.49		N 32 543.15 W 10	
	4100,00	2.20	332.75	4064,64	-373.16	378.00	-192.35 -194.71	1.50	398448.39		N 32 5 43.21 W 10	
	4200.00	0.70	332.75	4164.60	-375.38	380.25	-195.87	1.50 1.50	398452.96 398455.21		N 32 5 43.26 W 104 N 32 5 43.28 W 104	
Hold Vertical	4246.70	0.00	332.75	4211.30	-375.63	380.50	-196.00	1.50	398455.47	552471.13		
Brushy Canyon (BCN)	4282,40	0.00	332.75	4247.00	-375.63	380.50	-196.00	0.00	398455.47		N 32 543.28 W 104	
. ,	4300.00	0.00	332.75	4264.60	-375.63	380.50	-196.00	0.00	398455.47		N 32 543.28 W 104	
	4400.00	0.00	332.75	4364.60	-375,63	380.50	-196.00	0.00	398455.47	552471.02	N 32 5 43.28 W 104	9 50.02
	4500.00 4600.00	0.00	332.75	4464.60	-375.63	380.50	-196.00	0.00	398455.47	. 552471.02		
	4700.00	0.00	332.75 332.75	4564.60 4664.60	-375.63	380.50	-196.00	0.00	398455.47		N 32 5 43.28 W 104	
	4800.00	0.00	332.75	4764.60	-375.63 -375.63	380.50 380.50	-196,00	0.00	398455.47		N 32 5 43.28 W 104	
	4900.00	0.00	332.75	4864.60	-375.63	380.50	-196.00 -196.00	0.00 0.00	398455.47		N 32 5 43.28 W 104	
	5000.00	0.00	332.75	4964.60	-375.63	380.50	-196.00	0.00	398455.47 398455.47		N 32 543.28 W 104 N 32 543.28 W 104	
	5100.00	0.00	332.75	5064.60	-375.63	380.50	-196.00	0.00	398455.47		N 32 543.28 W 104 N 32 543.28 W 104	
	5200.00	0.00	332.75	5164.60	-375.63	380.50	-196.00	0.00	398455,47	552471.02		
	5300.00	0.00	332.75	5264.60	-375.63	380.50	-196.00	0.00	398455.47		N 32 543.28 W 104	
	5400.00	0.00	332.75	5364.60	-375.63	380.50	-196.00	0.00	398455.47		N 32 543.28 W 104	
	5500.00 5600.00	0.00	332.75	5464.60	-375.63	380.50	-196.00	0.00	398455.47	552471.02		
	5700.00	0.00	332.75	5564.60	-375.63	380.50	-196.00	0.00	398455.47	552471.02	N 32 5 43.28 W 104	9 50.02
	5800.00	0.00	332.75 332.75	5664.60 5764.60	-375.63 -375.63	380.50	-196.00	0.00	398455.47	552471.02		
	5900.00	0.00	332.75	5864.60	-375.63 -375.63	380.50 380.50	-196.00	0.00	398455.47	552471.02		
	6000.00	0.00	332.75	5964.60	-375.63 -375.63	380.50 380.50	-196.00 -196.00	0.00 0.00	398455.47 398455.47	552471.02	N 32 543.28 W 104	9 50.02
Bone Spring	6040.40	0.00	332.75	6005.00	-375.63	380.50	-196.00	0.00	398455.47		N 32 5 43.28 W 104	
(BSGL)	6100.00	0.00	332.75	6064.60	-375.63	380.50	-196.00	0.00	398455.47		N 32 543.28 W 104	
Upper Avalon	6107,40	0.00	332.75	6072.00	-375.63	380.50	-196.00	0.00	398455.47 398455.47		N 32 543.28 W 104	
(AVN)	6200.00	0.00	332.75	6164.60	-375.63	380.50	-196.00	0.00			N 32 543.28 W 104	
	6300.00	0.00	332.75	6264.60	-375.63	380.50	-196.00 -196.00	0.00	398455.47 398455.47		N 32 543.28 W 104 N 32 543.28 W 104	
											0 40.20 77 104	3 50,02

Comments	MD (ft)	Incl (°)	Azim Grid	TVD	VSEC	NS	EW	DLS	Northing	Easting Latitude Longitude
	6400.00	0.00	332.75	(ft) 6364.60	-375.63	(ft) 380.50	-196,00	(°/100ft) 0.00	(ftUS) 398455.47	(ftUS) (N/S ° ' '') (E/W ° ' 552471.02 N 32 543.28 W 104 9 50.
	6500.00	0.00	332.75	6464.60	-375.63	380.50	-196.00	0.00	398455.47	552471.02 N 32 543.28 W 104 9 50.
	6600.00 6700.00	0.00 0.00	332.75 332.75	6564.60 6664.60	-375.63 -375.63	380.50 380.50	-196,00 -196,00	0.00 0.00	398455.47	552471.02 N 32 543.28 W 104 9 50.
	6800.00	0.00	332.75	6764.60	-375.63	380.50	-196.00	0.00	398455.47 398455.47	552471.02 N 32 543.28 W 104 9 50. 552471.02 N 32 543.28 W 104 9 50.
Top Bone Spring 1 (FBS)	6887.40	0.00	332.75	6852.00	-375,63	380.50	-196.00	0.00	398455.47	552471.02 N 32 543.28 W 104 9 50.0
	6900.00	0.00	332.75	6864.60	-375.63	380.50	-196.00	0.00	398455.47	552471.02 N 32 543,28 W 104 9 50.
	7000.00 7100.00	0.00 0.00	332.75 332.75	6964.60 7064.60	-375.63 -375.63	380.50	-196.00	0.00	398455.47	552471.02 N 32 543.28 W 104 9 50.
	7200.00	0.00	332.75	7164.60	-375.63	380.50 380.50	-196.00 -196.00	0.00 0.00	398455.47 398455.47	552471.02 N 32 543.28 W 104 9 50. 552471.02 N 32 543.28 W 104 9 50.
Top Bone	7300.00	0.00	332.75	7264.60	-375.63	380.50	-196.00	0.00	398455.47	552471.02 N 32 543.28 W 104 9 50.
Spring 2 (SBU)	7328.40	0.00	332.75	7293.00	-375.63	380.50	-196.00	0.00	398455.47	552471.02 N 32 5 43.28 W 104 9 50.0
	7400.00 7500.00	0.00	332.75	7364.60	-375.63	380.50	-196.00	0.00	398455.47	552471.02 N 32 543.28 W 104 9 50.
	7600.00	0.00 0.00	332.75 332.75	7464.60 7564.60	-375.63 -375.63	380.50 380.50	-196.00 -196.00	0.00 0.00	398455.47 398455.47	552471.02 N 32 5 43.28 W 104 9 50.0 552471.02 N 32 5 43.28 W 104 9 50.0
	7700.00	0.00	332.75	7664.60	-375.63	380.50	-196.00	0.00	398455.47	552471.02 N 32 543.28 W 104 9 50.1
	7800.00 7900.00	0.00 0.00	332.75 332.75	7764.60 7864.60	-375.63 -375.63	380,50 380,50	-196.00 -196.00	0.00 0.00	398455.47 398455.47	552471.02 N 32 5 43.28 W 104 9 50.
	8000.00	0.00	332.75	7964.60	-375.63	380.50	-196.00	0.00	398455,47	552471.02 N 32 5 43.28 W 104 9 50.4 552471.02 N 32 5 43.28 W 104 9 50.4
	8100.00 8200.00	0.00 0.00	332.75 332.75	8064.60 8164.60	-375.63 -375.63	380.50	-196.00	0.00	398455.47	552471.02 N 32 543.28 W 104 9 50.6
	8300.00	0.00	332.75	8264.60	-375.63	380.50 380.50	-196.00 -196.00	0.00 0.00	398455.47 398455.47	552471.02 N 32 543.28 W 104 9 50.4 552471.02 N 32 543.28 W 104 9 50.4
9 5/8" Casing	8335.40 8400.00	0.00 0.00	332.75	8300.00	-375.63	380.50	-196.00	0.00	398455.47	552471.02 N 32 543.28 W 104 9 50.0
	8500.00	0.00	332.75 332.75	8364.60 8464.60	-375.63 -375.63	380.50 380.50	-196.00 -196.00	0.00 0.00	398455.47 398455.47	552471.02 N 32 5 43.28 W 104 9 50.1 552471.02 N 32 5 43.28 W 104 9 50.1
KOP, Build 8°/100ft	8589.20	0.00	332.75	8553.80	-375.63	380.50	-196.00	0.00	398455.47	
	8600.00	0.86	187.65	8564,60	-375.55	380.42	-196.01	8.00	398455.39	552471.02 N 32 5 43.28 W 104 9 50.1 552471.01 N 32 5 43.28 W 104 9 50.1
Top Bone	8667.55	6.27	187.65	8632,00	-371.38	376.26	-196.57	8.00	398451.22	552470.45 N 32 5 43.24 W 104 9 50.0
Spring 3 (TBS)	8700.00	8.86	187.65	8664.16	-367.13	372.02	-197.14	8.00	398446.99	552469.88 N 32 5 43.20 W 104 9 50.0
	8800.00	16.86	187.65	8761.57	-345.02	349.97	-200.10	8.00	398424.94	552466.92 N 32 542.98 W 104 9 50.1
	8900,00 9000.00	24.86 32.86	187.65 187.65	8854.94 8942.44	-309.64 -261.70	314.70 266.90	-204.84 -211.26	8.00 8.00	398389.68 398341.88	552462.18 N 32 542.63 W 104 9 50.
Wolfcamp A	9038.25	35.92	187.65	8974.00	-240.22	245,49	-214.13	8.00	398320.47	552455.76 N 32 5 42.16 W 104 9 50.2 552452.89 N 32 5 41.95 W 104 9 50.2
(WCA)	9100.00	40.86	187.65	9022.38	-202.11	207.49	-219.24	8.00		
	9200.00	48.86	187.65	9093.21	-132.05	137.63	-228.62	8.00	398282.47 398212.62	552447.78 N 32 5 41.57 W 104 9 50.2 552438.40 N 32 5 40.88 W 104 9 50.4
	9300.00 9400.00	56.86 64.86	187.65 187.65	9153,53 9202,18	-52.86 33.89	58.68	-239.22	8.00	398133.68	552427.80 N 32 5 40.10 W 104 9 50.5
	9500.00	72.86	187.65	9238.20	126.53	-27.81 -120.18	-250.84 -263.25	8.00 8.00	398047.19 397954.83	552416.18 N 32 5 39.24 W 104 9 50.6 552403.77 N 32 5 38.33 W 104 9 50.6
	9600.00 9700.00	80.86 88.86	187.65	9260.91	223.26	-216.62	-276.20	8.00	397858.40	552390.82 N 32 5 37.38 W 104 9 50.9
Landing Point	9714.20	90.00	187.65 187.65	9269.86 9270.00	322.18 336.29	-315.25 -329.32	-289.45 -291.34	8.00 8.00	397759.78 397745.71	552377.58 N 32 5 36.40 W 104 9 51.1 552375.69 N 32 5 36.26 W 104 9 51.1
FTP Cross	9714.38 9800.00	90.00 90.00	187.65	9270.00	336.47	-329, 50	-291.36	0.00	397745.53	552375.66 N 32 5 36.26 W 104 9 51.1
	9900.00	90.00	187.65 187.65	9270.00 9270.00	421.58 520.99	-414.36 -513.47	-302.76 -316.07	0.00 0.00	397660.68 397561.57	552364.26 N 32 5 35.42 W 104 9 51.2 552350.95 N 32 5 34.44 W 104 9 51.4
	10000.00	90.00	187.65	9270.00	620.39	-612.58	-329,39	0.00	397462.47	552350.95 N 32 5 34.44 W 104 9 51.4 552337.64 N 32 5 33.46 W 104 9 51.5
	10100,00 10200.00	90.00 90.00	187.65 187.65	9270.00 9270.00	719,79 819,20	-711.69 -810.80	-342.70 -356.01	0.00 0.00	397363,37	552324.33 N 32 5 32.48 W 104 9 51.7
T 0014007	10300.00	90.00	187.65	9270.00	918.60	-909.91	-369.32	0.00	397264.27 397165.17	552311.02 N 32 5 31.50 W 104 9 51.5 552297.71 N 32 5 30.52 W 104 9 52.0
Turn 2°/100ft	10386.49 10400.00	90.00 90.00	187.65 187.38	9270.00 9270.00	1004.58 1018.01	-995.63 -1009.03	-380.84	0.00	397079.46	552286.20 N 32 5 29.67 W 104 9 52.1
	10500.00	90.00	185.38	9270.00	1117,63	-1108.40	-382.60 -393.71	2.00 2.00	397066,07 396966,70	552284.43 N 32 5 29.54 W 104 9 52.2 552273.32 N 32 5 28.55 W 104 9 52.3
Hold	10600.00 10686.49	90.00 90.00	183.38 181.65	9270.00 9270.00	1217.48	-1208.10	-401.35	2.00	396867.00	552265.69 N 32 5 27.57 W 104 9 52.4
	10700.00	90.00	181.65	9270.00	1303,95 1317,46	-1294.50 -1308.01	-405.14 -405.53	2.00 0.00	396780,61 396767,11	552261.89 N 32 5 26.71 W 104 9 52.4 552261.50 N 32 5 26.58 W 104 9 52.4
	10800.00 10900.00	90.00 90.00	181.65 181.65	9270.00	1417.46	-1407.97	-408.41	0.00	396667.16	552258.62 N 32 5 25,59 W 104 9 52.5
	11000.00	90.00	181.65	9270.00 9270.00	1517.46 1617.46	-1507.93 -1607.89	-411.29 -414.17	0.00 0.00	396567.21 396467.26	552255.74 N 32 5 24.60 W 104 9 52.5 552252.86 N 32 5 23.61 W 104 9 52.5
	11100.00 11200.00	90.00 90.00	181.65 181.65	9270.00	1717.46	-1707.85	-417.05	0.00	396367.31	552249.99 N 32 5 22,62 W 104 9 52.6
	11300.00	90.00	181.65	9270.00 9270.00	1817.46 1917.46	1807.80 -1907.76	-419.93 -422.81	0.00 0.00	396267.36 396167.41	552247.11 N 32 5 21.63 W 104 9 52.6 552244.23 N 32 5 20.64 W 104 9 52.7
	11400.00 11500.00	90.00 90.00	181.65	9270.00	2017.46	-2007.72	-425.69	0.00	396067.46	552241.35 N 32 5 19.65 W 104 9 52.7
	11600.00	90.00	181.65 181.65	9270.00 9270.00	2117.46 2217.46	-2107.68 -2207.64	-428.57 -431.45	0.00 0.00	395967.51 395867.56	552238.47 N 32 5 18.67 W 104 9 52.7 552235.59 N 32 5 17.68 W 104 9 52.8
	11700.00	90.00	181.65	9270.00	2317.45	-2307.60	-434.33	0.00	395767.61	552232.71 N 32 5 16.69 W 104 9 52.8
	11800.00 11900.00	90.00 90.00	181.65 181.65	9270.00 9270.00	2417.45 2517.45	-2407.56 -2507.51	-437.21 -440.09	0.00 0.00	395667,66 395567,71	552229.83 N 32 5 15.70 W 104 9 52.8
	12000.00	90.00	181.65	9270.00	2617.45	-2607.47	-442.97	0.00	395467.76	552226.95 N 32 514.71 W 104 9 52.9 552224.07 N 32 513.72 W 104 9 52.9
	12100.00 12200.00	90.00 90.00	181,65 181,65	9270.00 9270.00	2717.45 2817.45	-2707.43	-445.85	0.00	395367.81	552221.19 N 32 5 12.73 W 104 9 52.9
	12300.00	90.00	181.65	9270.00	2917.45	-2807.39 -2907.35	-448.72 -451,60	0.00 0.00	395267.86 395167.91	552218.32 N 32 5 11.74 W 104 9 53.0 552215.44 N 32 5 10.75 W 104 9 53.0
	12400.00 12500.00	90.00 90.00	181.65 181.65	9270.00 9270.00	3017.45 3117.45	-3007.31 -3107.27	-454.48 -457.36	0.00	395067.96	552212.56 N 32 5 9.76 W 104 9 53.0
	12600.00	90.00	181.65	9270.00	3217.44	-3207.22	-460.24	0.00 0.00	394968.01 394868.06	552209.68 N 32 5 8.77 W 104 9 53.1 552206.80 N 32 5 7.79 W 104 9 53.1
	12700.00 12800.00	90.00 90.00	181.65 181.65	9270.00 9270.00	3317.44 3417.44	-3307.18 -3407.14	-463.12	0.00	394768,11	552203.92 N 32 5 6.80 W 104 9 53.1
	12900.00	90.00	181.65	9270.00	3517.44	-3507.10	-466.00 -468.88	0.00 0.00	394668.16 394568.22	552201.04 N 32 5 5.81 W 104 9 53.2 552198.16 N 32 5 4.82 W 104 9 53.2
	13000.00 13100.00	90.00 90.00	181.65 181.65	9270.00 9270.00	3617,44 3717.44	-3607.06	-471.76	0.00	394468.27	552195.28 N 32 5 3.83 W 104 9 53.2
	13200.00	90.00	181.65	9270.00	3817.44	-3707.02 -3806.98	-474.64 -477.52	0.00 0.00	394368.32 394268.37	552192.40 N 32 5 2.84 W 104 9 53.3 552189.52 N 32 5 1.85 W 104 9 53.3
	13300.00 13400.00	90.00 90.00	181.65 181.65	9270.00 9270.00	3917.44	-3906.93	-480.40	0.00	394168.42	552186.64 N 32 5 0.86 W 104 9 53.4
	13500.00	90.00	181.65	9270.00	4017,44 4117.44	-4006.89 -4106.85	-483.28 -486.16	0.00 0.00	394068.47 393968.52	552183.77 N 32 4 59.87 W 104 9 53.4 552180.89 N 32 4 58.88 W 104 9 53.4
	13600.00 13700.00	90.00 90.00	181.65	9270.00	4217.43	-4206.81	-489.04	0.00	393868.57	552178.01 N 32 4 57.89 W 104 9 53.5
	13800.00	90.00	181.65 181.65	9270.00 9270.00	4317.43 4417.43	-4306.77 -4406.73	-491.92 -494.80	0.00 0.00	393768.62 393668.67	552175.13 N 32 4 56.91 W 104 9 53.5 552172.25 N 32 4 55.92 W 104 9 53.5
	13900.00	90.00	181.65	9270.00	4517.43	-4506.69	-497.67	0.00	393568.72	552169.37 N 32 4 54.93 W 104 9 53.6
	14000.00 14100.00	90.00 90.00	181.65 181.65	9270.00 9270.00	4617.43 4717.43	-4606.64 -4706.60	-500,55 -503.43	0.00 0.00	393468.77 393368.82	552166.49 N 32 4 53.94 W 104 9 53.6 552163.61 N 32 4 52.95 W 104 9 53.6
	14200.00	90.00	181.65	9270.00	4817.43	-4806.56	-506.31	0.00	393268.87	552160.73 N 32 4 51.96 W 104 9 53.7
	14300.00 14400.00	90.00 90.00	181.65 181.65	9270.00 9270.00	4917.43 5017.43	-4906.52 -5006.48	-509.19 -512.07	0.00 0.00	393168,92	552157.85 N 32 4 50.97 W 104 9 53.7
	14500.00	90.00	181.65	9270.00	5117.43	-5106.44	-514.95	0.00	393068.97 392969.02	552154.97 N 32 4 49.98 W 104 9 53,7 552152.10 N 32 4 48.99 W 104 9 53,8
	14600.00 14700.00	90.00 90.00	181.65 181.65	9270.00 9270.00	5217.42 5317.42	-5206.39	-517.83	0.00	392869.07	552149.22 N 32 448.00 W 104 9 53,8
	14800.00	90.00	181.65	9270.00	5417.42	-5306.35 -5406.31	-520.71 -523.59	0.00	392769.12 392669.17	552146.34 N 32 4 47.01 W 104 9 53.8 552143.46 N 32 4 46.02 W 104 9 53.9
	14900.00 15000.00	90.00 90.00	181.65 181.65	9270.00	5517.42	-5506.27	-526.47	0.00	392569.22	552140.58 N 32 445.04 W 104 9 53.9
MP, Turn	15024.29		181.65	9270.00	5617.42	-5606.23	-529.35	0.00	392469.27	552137,70 N 32 4 44,05 W 104 9 54,0
2°/100ft		90.00	181.65	9270.00	5641,71	-5630.51	-530.05	0.00	392445.00	552137.00 N 32 443.81 W 104 9 54.0
Hold	15050.79 15100.00	90.00 90.00	181.12 181.12	9270.00 9270.00	5668.21 5717.42	-5657.00 -5706.20	-530.69 -531.65	2.00 0.00	392418.51 392369.31	552136.36 N 32 443.54 W 104 9 54.00 552135.40 N 32 443.06 W 104 9 54.00
	15200.00	90.00	181.12	9270.00	5817.42	-5806.18	-533.60	0.00	392269.34	552133.44 N 32 442.07 W 104 9 54.0
	15300.00 15400.00	90.00 90.00	181.12 181.12	9270.00 9270.00	5917.42 6017.42	-5906.16 -6006.14	-535.56 -537.51	0.00	392169.37	552131.49 N 32 441.08 W 104 9 54.0
			101.12	3210,00	0017.42	-0000,14	-531,51	0.00	392069.39	552129.53 N 32 4 40.09 W 104 9 54.10

1	Comments	MD	incl	Azim Grid	TVD	VSEC	NS	EW	DLS	Northing	F	1 44 4	
19500.00 90.00 18112 9270.00 61741 4 6306.11 - 54142 0.00 391696.42 592125.61 N 32 4381.0 W10 95.415 19500.00 90.00 18112 9270.00 61741 4 6306.11 - 54142 0.00 391696.45 592125.61 N 32 4381.0 W10 95.415 19500.00 90.00 18112 9270.00 61741 4 6306.01 - 54143 0.00 391789.48 592125.77 N 12 43712 W10 95.415 19500.00 90.00 18112 9270.00 61741 4 6306.00 - 54728 0.00 391789.48 592123.77 N 12 43712 W10 95.415 19500.00 90.00 18112 9270.00 61741 4 6306.00 - 54728 0.00 391789.48 592123.77 N 12 43712 W10 95.415 19500.00 90.00 18112 9270.00 61741 4 6306.00 - 54728 0.00 39168.56 592171.81 N 12 43415 W10 95.415 19500.00 90.00 18112 9270.00 61741 4 6306.00 - 54728 0.00 39168.56 592171.81 N 12 43415 W10 95.425 19500.00 90.00 18112 9270.00 61741 6 6306.00 - 54728 0.00 39168.55 592118.81 N 12 43415 W10 95.425 19500.00 90.00 18112 9270.00 6917.41 6 6306.00 - 54728 0.00 39168.56 592171.81 N 12 43415 W10 95.425 19500.00 90.00 18112 9270.00 6917.41 6 6305.00 90.00 18112 9270.00 6917.41 6 6305.00 90.00 18112 9270.00 7717.40 7705.00 95.50 55511 0.00 39186.56 59217.81 N 12 43217 W10 95.425 19500.00 90.00 18112 9270.00 7717.40 7705.30 45501 0.00 39186.56 59217.80 N 12 43217 W10 95.435 19500.00 90.00 18112 9270.00 7717.40 7705.30 45501 0.00 3908870 5 52218.64 N 12 42021 W10 95.435 19500.00 90.00 18112 9270.00 7717.40 7705.30 45501 0.00 3908870 5 52218.04 N 12 42021 W10 95.435 19500.00 90.00 18112 9270.00 7717.40 7705.30 45501 0.00 3908870 5 52218.04 N 12 42021 W10 95.435 19500 0.00 95.00 18112 9270.00 7717.40 7705.30 45501 0.00 3908870 5 52218.04 N 12 42021 W10 95.435 19500 0.00 95.00 18112 9270.00 7717.40 7705.30 45501 0.00 3908870 5 52218.04 N 12 42021 W10 95.435 19500 0.00 95.00 18112 9270.00 9717.40 7705.30 45501 0.00 3908870 5 52210.17 N 12 42021 W10 95.435 19500 0.00 95.00 18112 9270.00 9717.40 7705.30 45501 0.00 3908870 5 52210.17 N 12 42021 W10 95.435 19500 0.00 95.00 18112 9270.00 9717.40 7705.30 45501 0.00 3908870 5 52210.17 N 12 42021 W10 95.435 19500 0.00 95.00 18112 9270.00 9717.40 9717.40 9717.40 9717.40 9717.40 9717.40 9717.40	Comments		(°)								Easting	Latitude	Longitude
19500.00 90.00 1811.2 9270.00 6217.41 4050.00 90.00 1811.2 9270.00 6217.41 4050.00 494.00 90.00 1811.2 9270.00 6317.41 4050.00 90.00 1811.2 9270.00 6317.41 4050.00 90.00 1811.2 9270.00 6317.41 4050.00 90.00 1811.2 9270.00 6317.41 4050.00 90.00 1811.2 9270.00 6317.41 4050.00 90.00 1811.2 9270.00 6317.41 4050.00 90.00 1811.2 9270.00 6317.41 4050.00 90.00 1811.2 9270.00 6317.41 4050.00 90.00 1811.2 9270.00 6317.41 4050.00 90.00 1811.2 9270.00 6317.41 4050.00 90.00 1811.2 9270.00 6317.41 4050.00 90.00 1811.2 9270.00 6317.41 4050.00 90.00 1811.2 9270.00 90.00 1811.2 9270.00 90.00 1811.2 9270.00 90.				181.12									
1900.00 90.00 151.12 9270.00 6317.41 4-360.00 391789.44 53212.87 N 32 471.2 W109 95.42 151.00 152.00				181.12	9270.00	6217.41	-6206,11						
1880 00 90 90 181-12 9270.00 9417-41 -8466.07 -445.33 0.00 39169.91 50212172 N 32 436.13 W 109 95.20 181-12 9270.00 90.00 181-12 9270.00 9717-41 -8666.07 -446.20 0.00 39169.93 5521173 N 32 436.15 W 109 95.20 181-12 9270.00 9717-44 -8666.07 -446.20 0.00 39169.93 5521173 N 32 436.15 W 109 95.20 181-12 9270.00 9717-44 -8666.07 -446.20 0.00 39169.93 5521185 N 32 431.15 W 109 95.42 181.00 181.00 90.00 181-12 9270.00 9917-41 -8666.07 -595.11 0.00 39169.93 5521185 N 32 431.15 W 109 95.42 181.00 181.00 90.00 181-12 9270.00 9917-41 -8665.97 -595.11 0.00 39169.92 5521184 N 32 431.19 W 109 95.42 181.00 90.00 181-12 9270.00 9917-41 -8665.97 -595.11 0.00 39169.93 5521684 N 32 431.19 W 109 95.42 181.00 90.00 181-12 9270.00 9917-41 -7665.98 -595.91 0.00 39169.96 5521684 N 32 432.19 W 109 95.42 181.00 90.00 181-12 9270.00 7417-40 -7765.98 -595.91 0.00 39069.97 0 5521684 N 32 432.20 W 109 95.42 181.00 90.00 181-12 9270.00 7417-40 -7765.98 -595.91 0.00 39069.97 0 5521684 N 32 432.20 W 109 95.42 181.00 95.					9270.00	6317.41	-6306.09				552123.67	N 32 430.11	W 104 9 54.15
1800.00 8 00 1811.2 9270.00 6817.41 8506.05 4-91.29 0.00 391598.33 502119.76 N 32 435.14 W 149 54.22 1610.00 80.00 1811.2 9270.00 6817.41 8506.05 4-91.29 0.00 39159.83 502119.76 N 32 435.14 W 149 54.22 1610.00 1810.00 80.00 1811.2 9270.00 6817.41 8605.93 4.55.11 0.00 39159.83 502119.76 N 32 435.14 W 149 54.27 1610.00 1810.00 80.00 1811.12 9270.00 6817.41 8605.97 4.55.11 0.00 39159.83 502119.35 N 32 435.10 W 169 54.27 1610.00 1810.00 80.00 1811.12 9270.00 6817.41 8605.97 4.55.11 0.00 39159.83 502119.35 N 32 435.10 W 169 54.27 1610.00 1810.00 80.00 1811.12 9270.00 7017.40 47.705.93 45.55.11 0.00 39159.83 50.21 19.4 N 32 435.10 W 169 54.27 1610.00 180.00 180.00 180.00 1811.12 9270.00 7017.40 47.705.93 45.00 180.00 180.00 180.12 9270.00 717.40 47.705.93 45.00 180.00 180.00 180.00 1811.12 9270.00 717.40 47.705.93 45.00 180.00 180.00 180.00 180.12 9270.00 717.40 47.705.93 45.00 180.00 180.00 180.00 180.00 1811.12 9270.00 717.40 47.705.93 45.00 180.00 180.00 180.00 1811.12 9270.00 717.40 47.705.93 45.00 180.00 180.00 180.00 1811.12 9270.00 717.40 47.705.93 45.00 180.00 180.00 180.00 180.10 181.12 9270.00 717.40 47.705.93 45.60 45.20 45						6417.41	-6406.07	-545.33					
16100.00 90.00 181.12 9270.00 6817.41 8806.00 - 549.24 0.00 381486.56 55217.81 N 32 4 34.15 W 104 9 54.27 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							-6506.05						
1400.00 90.00 181.12 9270.00 7717.40 -7708.93 -591.50 0.00 391989.95 952115.80 N 32 4 33.16 W 104 954.32 116 W 104 954.30 116								-549.24			552117.81	N 32 4 34 15	W 104 9 54.25
14500.00 90.00 181.12 9270.00 7717.40 795.95 16 0.00 3917.86 25 52119.9 N 22 4 32.17 W 10.9 94.32 16 16 0.00 90.00 181.12 9270.00 7717.40 795.95 15.00 0.00 3918.86 25 52119.9 N 22 4 31.19 W 104.9 94.32 17 W 10.9 94.30 16 0.00 90.00 181.12 9270.00 7717.40 7705.95 15.90 10 0.00 3918.86 25 5210.00 90.00 181.12 9270.00 7717.40 7705.95 15.90 10 0.00 3918.86 25 5210.00 90.00 181.12 9270.00 7717.40 7705.95 15.90 10 0.00 3908.87 18 5210.00 18 18 18 12 9270.00 7717.40 7705.95 15.90 10 0.00 3908.87 18 5210.00 18 18 18 18 18 18 18 18 18 18 18 18 18									0.00		552115.85	N 32 4 33.16	W 104 9 54 27
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Survey Type:

Def Plan

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

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size Casi (in)	ing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	28.000	1/100,000	30.000	30.000		B001Ma_MWD+HDGM-Depth Only	Cicada Unit 040H / Chevron Cicada Unit 40H Rev0 kFc 09Apr19
	1	28.000	20445.800	1/100.000	30.000	30.000		B001Ma_MWD+HDGM	Cicada Unit 040H / Chevron Cicada Unit 40H Rev0 kFc

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

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

1. SUMMARY OF REQUEST:

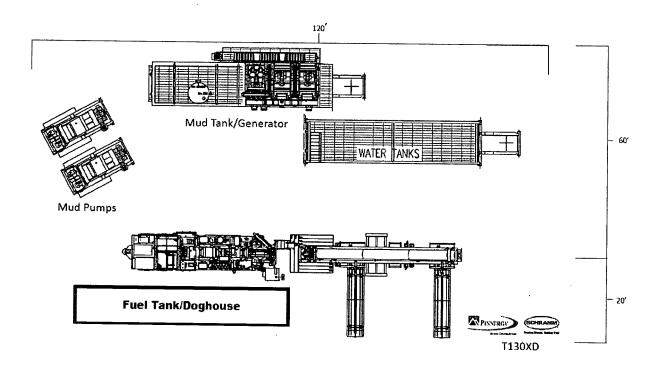
CUSA respectfully requests approval for the following operations for the surface hole in the drill plan:

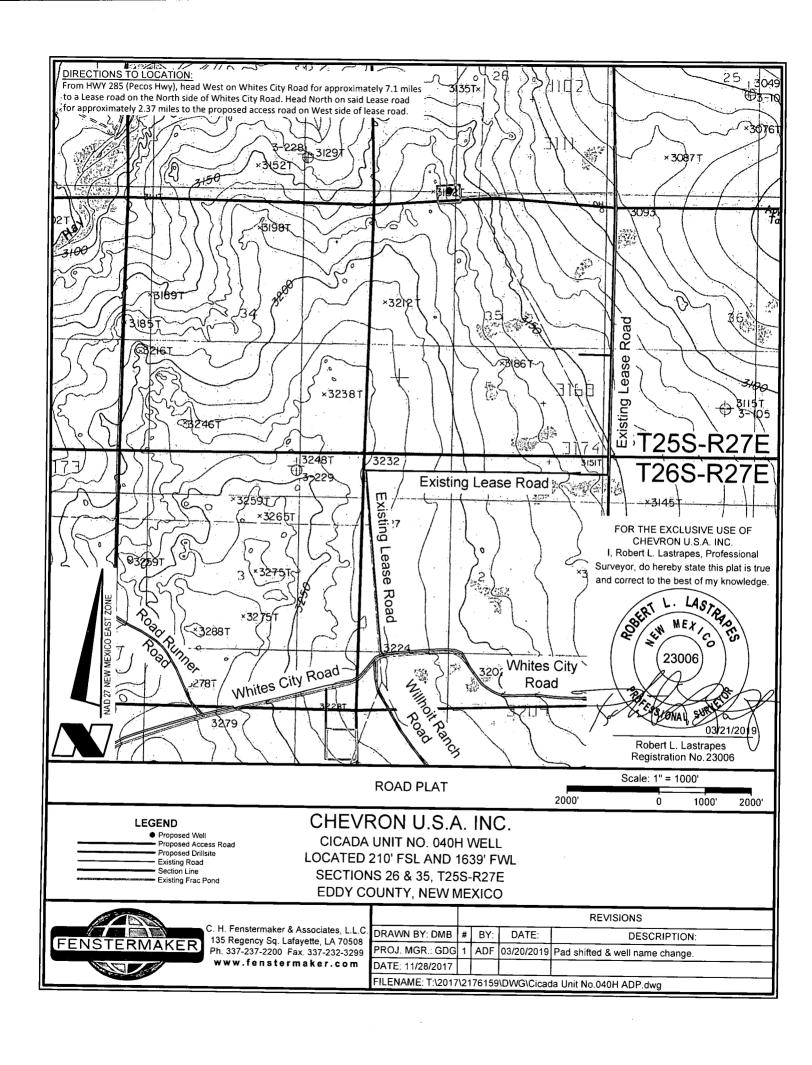
1. Utilize a spudder rig to pre-set surface casing for time and cost savings.

2. Description of Operations

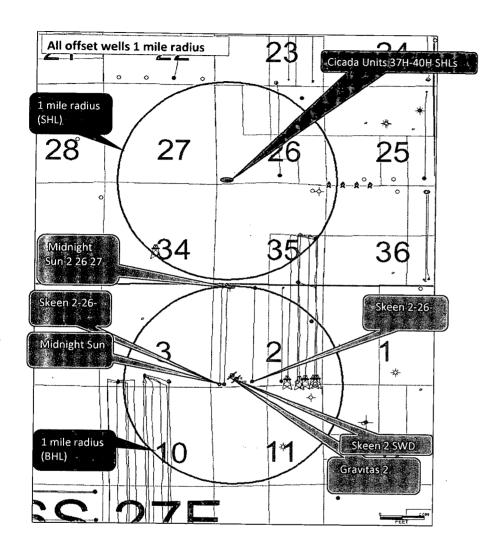
- 1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
 - **a.** After drilling the surface hole section, the spudder rig will run casing and cement following all the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
 - **b.**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

Surface Rig Layout

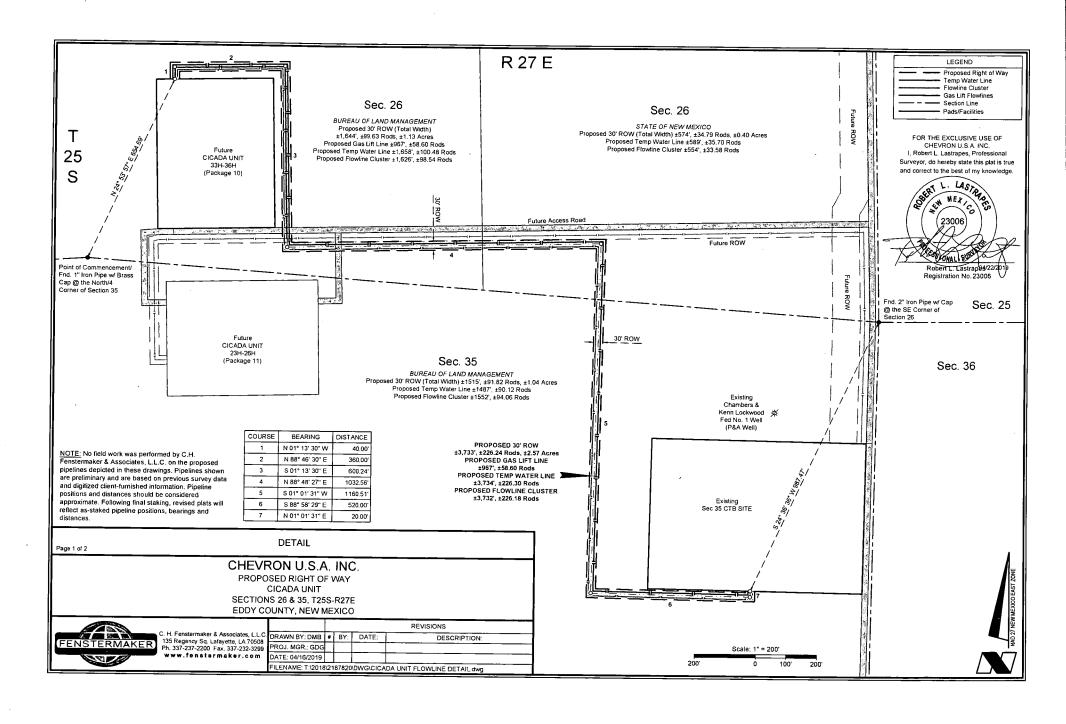




API Well Name	Well Number	Operator	Final Status	TD	ŤVĎ	SHL to SHL
30015011470000 LOCKWOOD		CHAMBERS&KENEDY-RITCHIE	DRY & ABANDONED	2414	*	3320
30015443470000 HH CE 35 2 FED 006	001H	CHEVRON U S A INCORPORATED	AT TOTAL DEPTH	10629	10560	4400
30015443470100 HH CE 35 2 FED 006	001H	CHEVRON U S A INCORPORATED	AT TOTAL DEPTH	17908	10287	4400
30015443460000 HH CE 35 2 FED 006	002H	CHEVRON U S A INCORPORATED	WELL START		10207	4415
30015443500000 HH CE 35 2 FED 006	003H	CHEVRON U S A INCORPORATED	TREATD	17422		4430
30015443490000 HH CE 35 2 FED 006		CHEVRON U S A INCORPORATED	TREATD	17709		4450
30015443450000 HH CE 35 2 FEDERAL 00	6 005H	CHEVRON U S A INCORPORATED	WELL START			4475
30015443480000 HH CE 35 2 FED 006	· 006H	CHEVRON U S A INCORPORATED	WELL START			4485
30015238480000 AMOCO FEDERAL		WOOD & LOCKER INCORPORATED	ABD-OW	7670		4955
30015379160000 COOKSEY '26' FEDERAL	COM 1H	CHESAPEAKE OPERATING INCORPORATED	OIL PRODUCER	11025	6270	5265
30015410470000 SKEEN 2-26-27 STATE	2H	CHEVRON U S A INCORPORATED	OIL PRODUCER	12619	7792	5810
30015410477000 SKEEN 2-26-27 STATE	2H	CHEVRON U S A INCORPORATED	PILOT HOLE	8050	8047	5810
30015430400000 MIDNIGHT SUN 2 26 27	5H	CHEVRON U S A INCORPORATED	JUNKED & ABANDONED	6560	6552	5890
30015430400100 MIDNIGHT SUN 2 26 27	5H	CHEVRON U S A INCORPORATED	PILOT HOLE - WO	9199	9184	5890
30015430400200 MIDNIGHT SUN 2 26 27	5H	CHEVRON U S A INCORPORATED	OIL-WO	14126	8984	5890
30015410460000 SKEEN 2-26-27 STATE	1H	CHEVRON U S A INCORPORATED	OIL PRODUCER	12905	7746	5945
30015411170000 SKEEN 2-26-27 STATE		CHEVRON U S A INCORPORATED	OIL PRODUCER	12556	7768	5985
30015439540000 SAGE 35 B2PA FED COM	1H	MEWBOURNE OIL COMPANY	WELL PERMIT	12330		6115
30015411180000 SKEEN 2-26-27 STATE	4H	CHEVRON U S A INCORPORATED	OIL PRODUCER	12780	7788	6575
30015239990000 AZTEC STATE	1	MOORE WAYNE	D&A-OG	6910	7700	8145
30015363410000 SCRABBLE BLE FEDERAL	1	YATES PETROLEUM CORPORATION	ABANDON LOCATION	0520		9115
30015270440000 HEYCO FEDERAL	1	HANAGAN PETROLEUM CORPORATION	DRY & ABANDONED	6050		9965
30015438920000 GRAVITAS 2 STATE SWD		CHEVRON U S A INCORPORATED	SWDOP	14960	14952	10685
30015438920000 GRAVITAS 2 STATE SWD	2	CHEVRON U.S. A INCORPORATED	SWDOP	14960	14952	. 10685
30015417440000 SKEEN 2 SWD	1	CHEVRON U.S.A.INCORPORATED	SWDOP	5600	14332	10715
30015417440000 SKEEN 2 SWD	1	CHEVRON U S A INCORPORATED	SWDOP	5600		10715
30015439290000 HH SO 10 P3	016H	CHEVRON U S A INCORPORATED	PILOT HOLE	10676		11620
30015439290100 HH SO 10 P3	016H	CHEVRON U S A INCORPORATED	GAS-WO	20775	10120	11620
30015439300000 HH SO 10 P3	015H	CHEVRON U.S.A.INCORPORATED	GAS PRODUCER	20470	10133	11645
30015439370000 HH SO 10 P3	008Н	CHEVRON U S A INCORPORATED	GAS PRODUCER	20338	9851	11645
30015439360000 HH SO 10 P3	007H	CHEVRON U S A INCORPORATED	GAS PRODUCER	20330	9870	11690
30015439260000 HH SO 10 P3	024H	CHEVRON U S A INCORPORATED	AT TOTAL DEPTH	19400	3870	11715
30015439320000 HH SO 10 P3	023H	CHEVRON U S A INCORPORATED	AT TOTAL DEPTH	19100		11735
30015011480000 FEDERAL 11	1	RITCHIE & REAVES	DRY & ABANDONED	2404		12020
30015443670000 HH SO 10 15 FED 002	6H	CHEVRON U S A INCORPORATED	WELL START	2404		12020
30015443710000 HH SO 10 15 FED 002	5H	CHEVRON U S A INCORPORATED	WELL START			
30015443530000 HH SO 10 15 FED 002	4H	CHEVRON U S A INCORPORATED	WELL START			12510
30015443510000 HH SO 10 15 FED 002		CHEVRON U S A INCORPORATED	AT TOTAL DEPTH	20266		12535
30015443540000 HH SO 10 15 FED 002		CHEVRON U S A INCORPORATED	TREATD	19666	+	12560
30015443520000 HH SO 10 15 FED 002		CHEVRON U S A INCORPORATED	TREATD	19554		12580
30015214560000 HAY HOLLOW U		GREAT WESTERN DRILLING COMPANY	ABD-GW	12966		12600
30015244620001 SRO SWD		MARBOB ENERGY CORPORATION	SWD-WO	5850		14390 25700



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	17	26 ₅ -	-27E	14	13	Skeer 18	12SWD



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, Eenstermaker 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.
- 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.mm8/11.org
- 3. No field work was performed by C.H. Fenstermaker & Associates, L.L.C. on the proposed pipelines depicted in these drawings. Pipelines shown are preliminary and are based on previous survey data and digitace dient-furnished information Pipeline positions and distances should be considered approximate. Following final staking, revised plats will reflect as-staked pipeline positions, bearings and distances.
- 4. It is not a boundary survey. As such, this survey does not, nor was intended, to comply with the NMBLPEPS minimum standards of practice for a land boundary survey. Only limited measurements were made and lease lines were established and compiled from those measurements and records This plat is strictly for the use of Chevron U.S.A. Inc. for acquiring permits for oil and gas exploration in the state of New Mexico.

DETAIL

CHEVRON U.S.A. INC.
PROPOSED RIGHT OF WAY
CICADA UNIT
SECTIONS 26 & 35. T25S-R27F

SECTIONS 26 & 35, T25S-R27E EDDY COUNTY, NEW MEXICO



Page 2 of 2

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

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

CICADA UNIT RIGHT OF WAY

Description of the centerline of a proposed 30 feet wide by 3733 feet or 226.24 rods of right of way (15 feet each side of centerline) across Bureau of Land Management and State of New Mexico property located in sections 26 and 35 of Township 25 South, Range 27 East, and described as follows:

Commencing at the North quarter corner of said section 35 Township 25 South Range 27 East at a found 1" fron pipe with brass cap: Thence North 24 degrees 53 minutes 57 seconds East 654.69 feet to the Point of Beginning. Said Point of Beginning having the following coordinates: X = 553.978.52, Y = 398.527.09 (New Mexico State Plane Coordinate System, East Zone, NAD 27).

Thence North 01 degrees 13 minutes 30 seconds West 40,00 feet to a point;

Thence North 88 degrees 46 minutes 30 seconds East 360,00 feet to a point;

Thence South 01 degrees 13 minutes 30 seconds East 600.24 feet to a point;

Thence North 88 degrees 48 minutes 27 seconds East 1,032,56 feet to a point;

Thence South 01 degrees 01 minutes 31 seconds West 185.22 feet to a point on the common section line of said sections 26 and 35, T25S-R27E;

Thence South 01 degrees 01 minutes 31 seconds West 975.29 feet to a point;

Thence South 88 degrees 58 minutes 29 seconds East 520,00 feet to a point;

Thence North 01 degrees 01 minutes 31 seconds East 20.00 feet to the Point of Ending, having the following coordinates X= 555.882.25 and Y= 396.846.54 (New Mexico State Plane Coordinate System, East Zone, NAD Z7).

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

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

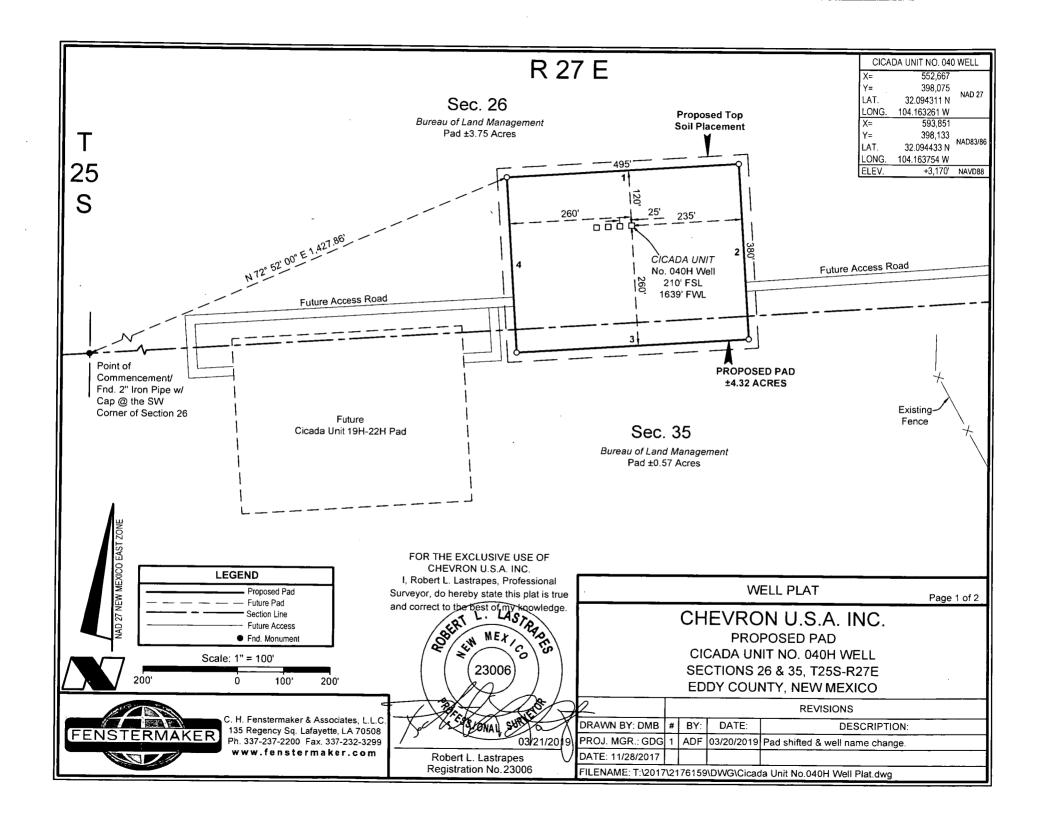
FOR THE EXCLUSIVE USE OF CHEVRON U.S.A. INC. I, Robert L. Lastrapes, Professional Surveyor, do hereby state this plat is true and correct to the best of the knowledge

and correct to the best of my knowled

Robert L. Lastrapes Registration No. 23006

DISCLAIMER: At this time, C. H. Fenstermaker & Associates, L.L.C. has not performed nor	NW PAD CORNER			NE PAD CORNER				SW PAD CORNER			SE PAD CORNE	-R
vas asked to perform any type of engineering, hydrological modeling, flood plain, or "No	X=	552,400		X=	552,894		X=	552,4		X=	552,919	
ise" certification analyses, including but not limited to determining whether the project will spact flood hazards in connection with federal/FEMA, state, and/or local laws, ordinances	Y= LAT.	398,178 32.094594 N	NAD 27	Y=	398,211	NAD 27	Y=	397,7		Y=	397,831	
nd regulations. Accordingly, Fenstermaker makes no warranty or representation of any kind	LONG.	104.164124 W		LAT. LONG.	32.094682 N 104.162529 W		LAT. LONG.	32.093552 104.164045	2 N	LAT. LONG.	32.093639 N 104.162450 W	
s to the foregoing issues, and persons or entities using this information shall do so at their wn risk.	X=	593,584		X=	594,078		X=	593,6		X=	594,103	
IOTE:	Y=	398,235	NAD83/86	Y=	398,268	NAD83/86	Y=	397,8		Y=	397,889	
lease be advised, that while reasonable efforts are made to locate and verify pinelines and	LAT. LONG.	32.094716 N 104.164617 W		LAT. LONG.	32.094804 N 104.163022 W		LAT. LONG.	32.093674 104.164538	ł N	LAI.	32.093761 N	
iomalies using our standard pipeline locating equipment, it is impossible to be 100 %	ELEV.	+3,181'	NAVD88	ELEV.		NAVD88	ELEV.	+3,1		LONG. ELEV.	104.162943 W +3,165'	
fective. As such, we advise using caution when performing work as there is a possibility that pelines and other hazards, such as fiber optic cables, PVC pipelines, etc. may exist								•		T-CE VI	0,.00	
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OTE: any states maintain information centers that establish links between those who dig												
xcavators) and those who own and operate underground facilities (operators). It is advisable										Se	ec. 26	
id in most states, law, for the contractor to contact the center for assistance in locating and arking underground utilities. For guidance, New Mexico One Call www.nm811.org					CICADA UNIT		DA UNI 39H We				and Managen	
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Future Access	Road		<u> </u>	-(/)	777777	7777	7/7/	7/1///				
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CHEV	RON U.S	S.A. INC. s, Professiona	. —									
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C. H. Fenstermaker & Associates, L.L.C.	\mathbb{Z}_{\downarrow}	TO Y	#1	Λ\Λ\Δ\ D	V. DMP "I c		ATC: -	. RI	EVISIONS			
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NOTE:

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NOTE:

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PROPOSED PAD									
COURSE BEARING DIST									
1	N 86° 13' 44" E	495.00'							
2	S 03° 46′ 16″ E	380.00'							
3	S 86° 13' 44" W	495.00'							
4	N 03° 46' 16" W	380.00'							

FENSTERMAKER

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.



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

Robert L. Lastrapes Registration No.23006

Y= LAT.	398,178 32.094594 N	NAD 27	Y= LAT.	398,211 32.094682 N	NAD 27	
LONG.	104.164124 W		LONG.	104.162529 W		l
X=	593,584		X=	594,078	-	l
Y=	398,235	NAD83/86	Y=	398,268		
LAT.	32.094716 N	NAU63/80	LAT.	32.094804 N	NAD83/86	
LONG.	104.164617 W		LONG.	104.163022 W		
ELEV.	+3,181'	NAVD88	ELEV.	+3,158'	NAVD88	
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	,	NAD 27	X=	552,919	NAD 27	
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Y= LAT. LONG. X=	397,799 32.093552 N 104.164045 W		X= Y= LAT. LONG.	552,919 397,831 32.093639 N 104.162450 W	NAD 27	
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Y= LAT. LONG. X= Y=	397,799 32.093552 N 104.164045 W 593,609 397,856		X= Y= LAT. LONG. X= Y=	552,919 397,831 32.093639 N 104.162450 W 594,103 397,889	NAD 27	

X=

NE PAD CORNER

552.894

NW PAD CORNER

552,400

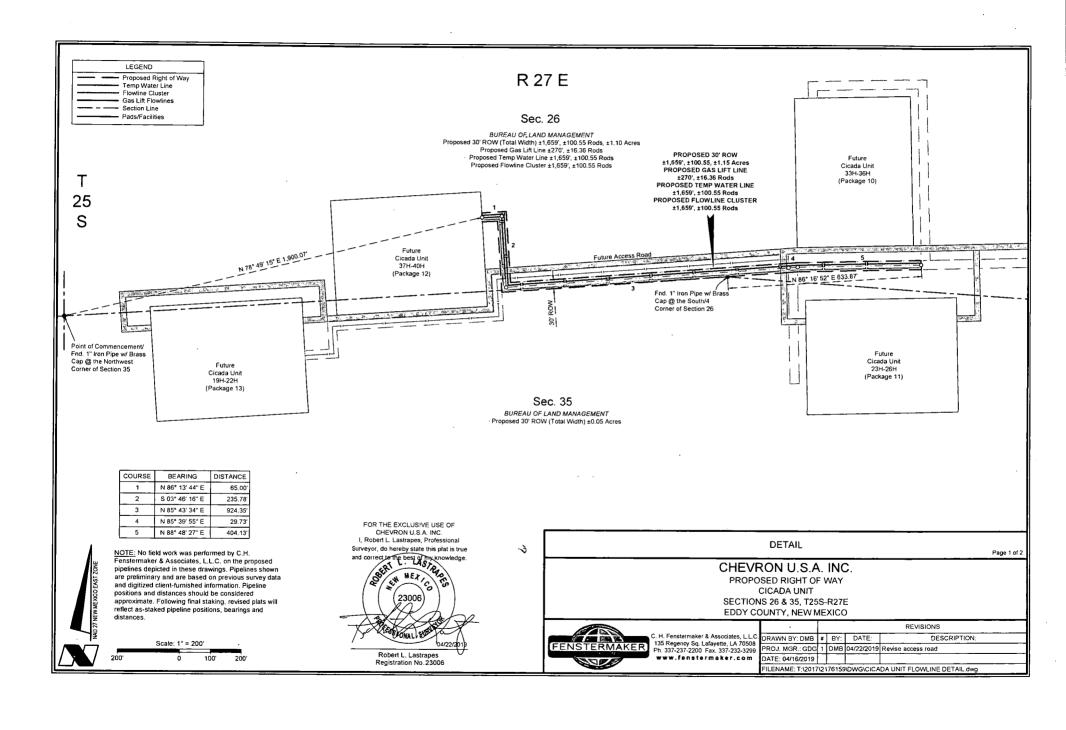
WELL PLAT

Page 2 of 2

CHEVRON U.S.A. INC.

PROPOSED PAD CICADA UNIT NO. 040H WELL SECTIONS 26 & 35, T25S-R27E EDDY COUNTY, NEW MEXICO

				REVISIONS						
DRAWN BY: DMB	#	BY:	DATE:	DESCRIPTION:						
PROJ. MGR.: GDG	1	ADF	03/20/2019	Pad shifted & well name change.						
DATE: 11/28/2017										
FILENAME: T:\2017	FILENAME: T:\2017\2176159\DWG\Cicada Unit No.040H Well Plat.dwg									



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

NOTE:

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

FOR THE EXCLUSIVE USE OF CHEVRON U.S.A. INC.

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

TON MEXICO

Robert L. Lastrapes

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

CICADA UNIT RIGHT OF WAY

Description of the centerline of a proposed 30 feet wide by 1.659 feet or 100.55 rods of right of way (15 feet each side of centerline) across Bureau of Land Management property located in Sections 26 and 35 of Township 25 South, Range 27 East, and described as follows:

Commencing at the Northwest corner of said Section 35 Township 25 South Range 27 East at a found 1" iron pipe with brass cap, Thence North 78 degrees 49 minutes 15 seconds East 1,900.07 feet to the Point of Beginning. Said Point of Beginning lawing the following coordinate System. East Zone, NAD 27).

Thence North 86 degrees 43 minutes 44 seconds East 65.00 feet to a point; Thence South 03 degrees 46 minutes 16 seconds East 235.78 feet to a point; Thence North 85 degrees 43 minutes 34 seconds East 924.35 feet to a point; Thence North 85 degrees 39 minutes 55 seconds East 29.73 feet to a point

Thence North 88 degrees 48 minutes 27 seconds East 404.13 feet to the Point of Ending, having the following coordinates X= 554.335.41 and Y= 397.974.37 (New Mexico State Plane Coordinate System, East Zone, NAD 27).

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

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

DETAIL

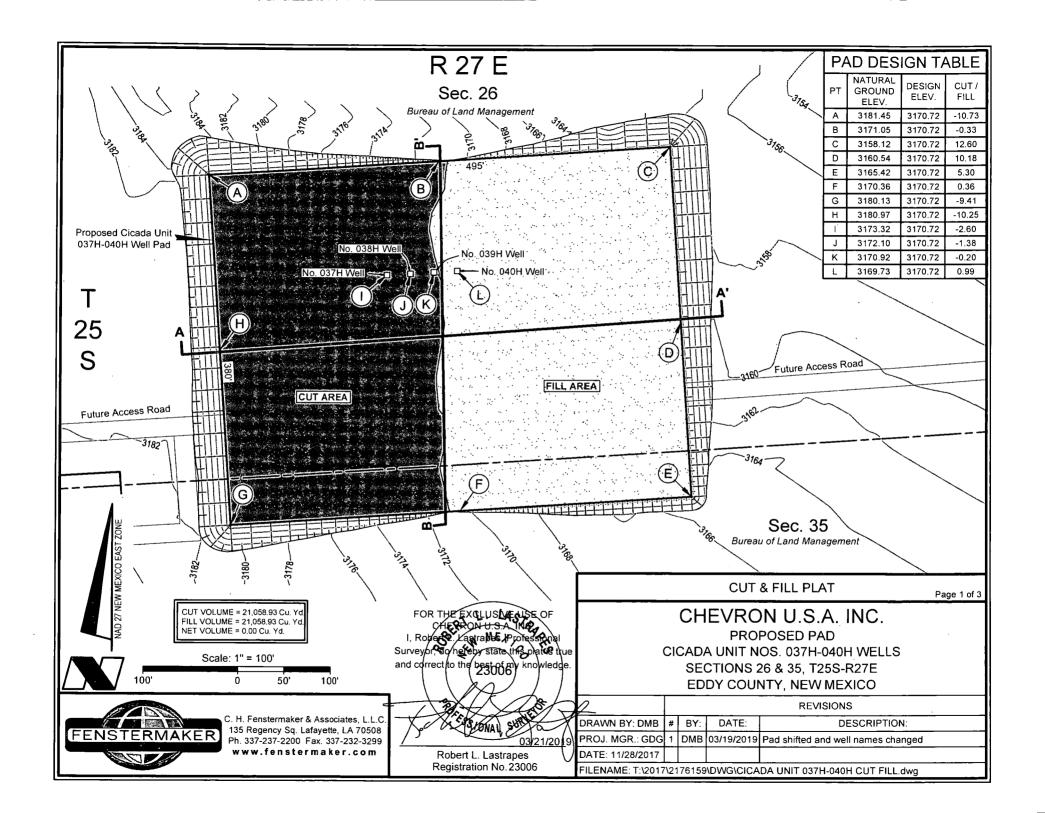
Page 2 of 2

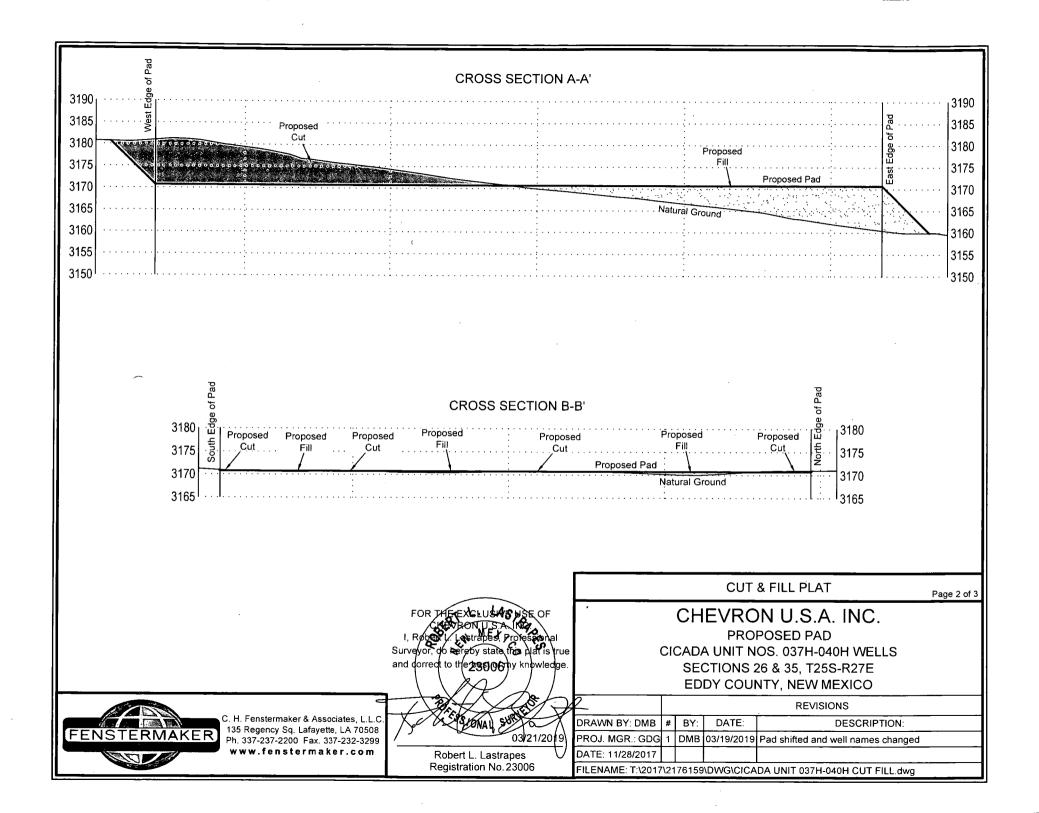
CHEVRON U.S.A. INC.

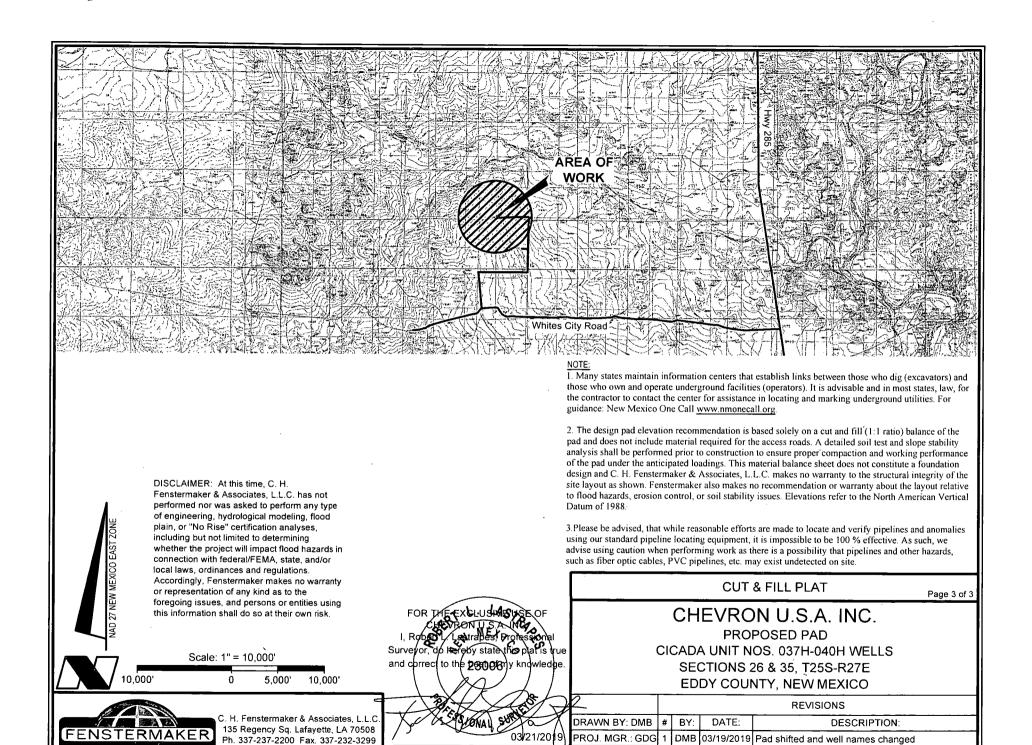
PROPOSED RIGHT OF WAY CICADA UNIT SECTIONS 26 & 35, T25S-R27E EDDY COUNTY, NEW MEXICO



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







Robert L. Lastrapes

Registration No. 23006

DATE: 11/28/2017

FILENAME: T:\2017\2176159\DWG\CICADA UNIT 037H-040H CUT FILL.dwg

www.fenstermaker.com

SCLAIMER: At this time, C. H. Fenstermaker & Associates, L.L.C. has not performed nor		NW PAD CORNE	R	NE PAD CORNER				SW PAD CORNE	ER		SE PAD CORNE	R
as asked to perform any type of engineering, hydrological modeling, flood plain, or "No	X=	552,400		X=	552,894		X=	552,425		X=	552,919	
se" certification analyses, including but not limited to determining whether the project will	Y=	398,178	NAD 27	Y=	398,211	NAD 27	Y=	397,799		Y=	397,831	
pact flood hazards in connection with federal/FEMA, state, and/or local laws, ordinances id regulations. Accordingly, Fenstermaker makes no warranty or representation of any kind	LAT.	32.094594 N 104.164124 W		LAT. LONG.	32.094682 N 104.162529 W		LAT. LONG.	32.093552 N 104.164045 W		LAT.	32.093639 N	
to the foregoing issues, and persons or entities using this information shall do so at their	X=	593,584		X=	594,078		X=	593,609		LONG. X=	104.162450 W 594,103	
vn risk.	Y=	398,235	NAD83/86	Y=	398 268	NAD83/86	Y=	397,856		Y=	397,889	
OTE:	LAT.	32.094716 N	NAD03/00	LAT.	32.094804 N	NAU03/00	LAT.	32.093674 N	NAD83/86	LAT.	32.093761 N	NAL
lease be advised, that while reasonable efforts are made to locate and verify pipelines and nomalies using our standard pipeline locating equipment, it is impossible to be 100 %	LONG. ELEV.	104.164617 W +3,181'	NAVD88	LONG. ELEV.	104.163022 W +3,158'	NAVD88	LONG. ELEV.	104.164538 W +3,180'	NAVD88	LONG. ELEV.	104.162943 W +3.165	
fective. As such, we advise using caution when performing work as there is a possibility that	ILLLV.	.0,101	TEAVEOU	JELEV.	13,130	NAVDOO	ICLEV.	+5,100	NAVDOO	JELEV.	T3,100	INA
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lany states maintain information centers that establish links between those who dig excavators) and those who own and operate underground facilities (operators). It is advisable										Se	ec. 26	
nd in most states, law, for the contractor to contact the center for assistance in locating and					ICADA UNIT		<i>DA UNI</i> 39H We				and Manager	
arking underground utilities. For guidance, New Mexico One Call www.nm811.org					o. 038H Well	/		III CADA UNIT			Pad: ±2.01 A Pad: ±0.57 A	
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* www.fonetormekor.ee	bert L. La	astranes	\	ATE: 03/2	21/2019 I I	1		1				

CHEVRON U.S.A. INC.
CICADA UNIT 40H – Package 12

NMNM 107369 (Cicada Unit – NMNM 137168X)

SECTION 26, T25S, R27E

40H – SHL 210' FSL & 1639' FEL

SECTION 27 FSL & 1254' FWL

APD Surface Use Plan of Operations

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

HDA Master Development Plan Reference Table

The contents referenced below apply to all HDA APD's

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

Driving Directions

• Driving Directions – From Malaga, New Mexico. The location is approximately 11.5 miles from the nearest town, which is Malaga, New Mexico. From Malaga, proceed South on Highway 285 approximately 11.5 miles and turn right (West) onto White City Rd and go approximately 6.5 miles on White City Road until the road reaches an intersection with a lease road in Section 2 (T26S R27E). Turn right onto this and travel .8 mi, then turn right and follow the lease road 1 mile East then 1.2 miles north. Turn left and travel .4 miles and the well location is on the right.

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

- There will be no new road construction for this proposal The existing road is sufficient
- Ditches: See MDPCulverts: See MDPRoad Cuts: See MDP

Location of Existing Wells

1-Mile radius map is attached

CHEVRON U.S.A. INC.

CICADA UNIT 40H – Package 12

NMNM 107369 (Cicada Unit – NMNM 137168X)

SECTION 26, T25S, R27E

40H – SHL 210' FSL & 1639' FEL

SECTION 25' FSL & 1254' FWL

Location of Existing and/or Proposed Production Facilities (MDP SUP Pg. 2)

- Facilities: Exisiting production facilities located in the NE corner of Sec. 35, T26S-R27E where oil and gas sales will take place.
 - o The facility is 500' X 700'
 - o Gas compression will occur within the proposed facility boundaries
 - o Gas purchaser pipeline is in place at the tank battery.
 - o Open top tanks or open containments will be netted.
 - Open vent exhaust stacks will be modified to prevent birds or bats from entering, discourage perching, roosting, and nesting.
 - Facilities will have a secondary containment 1.5 times the holding capacity of largest storage tank.
 - All above ground structures will be painted non-reflective shale green for blending with surrounding environment.
 - Produced water will be sent from the facility to the future Dignitas SWD on State Lands in the SE/4 of Section 26 and/or the Chevron operated recycling facility and Disposal (Gravitas SWD) in Section 2 via existing infrastructure.
- Pipelines: See Detail
 - o Pipelines Include:
 - 1,659' (100.59 rods) of Flowlines carrying production (buried)
 - 270' (16.36 rods) Gas Lift Line carrying pressurized gas (buried)
 - 1,659' (100.59 rods) Temporary Water line carrying fresh water (surface)
 - o A ROW will not be necessary due to the Cicada Unit.
 - .o 20' temporary workspace will be utilized for construction

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

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

CHEVRON U.S.A. INC.

CICADA UNIT 40H – Package 12

NMNM 107369 (Cicada Unit – NMNM 137168X)

SECTION 26, T25S, R27E

40H – SHL 210' FSL & 1639' FEL

BHL 25' FSL & 1254' FWL

Construction Materials (MDP SUPO Pg. 6)

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

Methods for Handling Waste

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

Well Site Layout

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

Plans for Surface Reclamation (MDP SUPA Pg. 8)

Interim Reclamation Procedures

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

CHEVRON U.S.A. INC.
CICADA UNIT 40H – Package 12

NMNM 107369 (Cicada Unit – NMNM 137168X)

SECTION 26, T25S, R27E

40H – SHL 210' FSL & 1639' FEL

BHL 25' FSL & 1254' FWL

Surface Ownership

- BLM Surface
 - o Surface Tenant Forehand Ranches, Inc.
- Nearest Post Office: Malaga Post Office; 11.4 Miles north

Other Information

- On-site performed by BLM NRS: Paul Murphy 4/19/2018 (one of several visits with BLM personnel to address arc site and hydrology)
- Cultural report attached: MDP Participating Agreement attached: N/A

Chevron Representatives

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