Form 3160-3 (June 2015)

JAN 0 9 2019

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

## **UNITED STATES**

DEPARTMENT OF THE IN BUREAU OF LAND MANA	5. Lease Serial No.	5. Lease Serial No. NMNM107369					
APPLICATION FOR PERMIT TO DE		6. If Indian, Allotee or	Tribe Name				
	·						
	EENTER	7. If Unit or CA Agree	ement, Name and No.				
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Oth	ner	8. Lease Name and W	ell No.				
Ic. Type of Completion: Hydraulic Fracturing Sin	ngle Zone Multiple Zone	HH CE 26 23 FED 0					
Name of Operator     CHEVRON USA INCORPORATED	4323	9. API-Well No.	5-45602				
	3b. Phone No. (include area code) (432)687-7866	10, Field and Pool, of PURPLE SAGE / W					
4. Location of Well (Report location clearly and in accordance w	ith any State requirements.*)	11. Sec., T. R. M. or B	lk. and Survey or Area				
At surface NWNE / 293 FNL / 2067 FEL / LAT 32.09312	24 / LONG -104.158732	SEC 35 / T25S / R27	'E / NMP				
At proposed prod. zone NWNE / 280 FNL / 2010 FEL / LA	AT 32.12192 / LONG -104.158888						
14. Distance in miles and direction from nearest town or post office 11.5 miles	:e*	12. County or Parish EDDY	13 State NM				
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No of acres in lease 17. Sp 1200 640	pacing. Unit dedicated to this	s well				
18. Distance from proposed location*	19. Proposed Depth 20/BI	M/BIA Bond No. in file					
to pearest well drilling completed	7//	CA0329	·				
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3128 feet	22 Approximate date work will start* 06/28/2019	23. Estimated duration 160 days	1				
	24. Attachments						
The following, completed in accordance with the requirements of (as applicable)	Onshore Oil and Gas Order No. 1, and the	he Hydraulic Fracturing rul	e per 43 CFR 3162.3-3				
Well plat certified by a registered surveyor.     A Drilling Plan.	4. Bond to cover the opera Item 20 above).	tions unless covered by an e	existing bond on file (see				
3. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office)	n Lands, the 5. Operator certification. 6. Such other site specific in BLM.	nformation and/or plans as m	ay be requested by the				
25. Signature (Electronic Submission)	Name (Printed/Typed) Kayla McConnell / Ph: (432)68		Date 08/13/2018				
Title Permitting Specialist							
Approved by (Signature) (Electronic Submission)	Name ( <i>Printed/Typed</i> ) Ty Allen / Ph: (575)234-5978		Date 1/30/2018				
Title Wildlife Biologist	Office CARLSBAD	•	: .				
Application approval does not warrant or certify that the applicant applicant to conduct operations thereon.  Conditions of approval, if any, are attached.	holds legal or equitable title to those rig	hts in the subject lease whi	ch would entitle the				
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, moof the United States any false, fictitious or fraudulent statements o			y department or agency				
	CONDITION	S					

APPROVED WITH CONDITION
APPROVED WITH CONDITION

\*(Instructions on page 2)

(Continued on page 2)

Rw 1-10-19

#### **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 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.G. 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: NWNE / 293 FNL / 2067 FEL / TWSP: 25S / RANGE: 27E / SECTION: 35 / LAT: 32.093124 / LONG: -104.158732 ( TVD: 0 feet, MD: 0 feet )

PPP: SWSE / 0 FSL / 2010 FWL / TWSP: 25S / RANGE: 27E / SECTION: 23 / LAT: 32.108113 / LONG: -104.158876 ( TVD: 0 feet, MD: 0 feet )

PPP: SWNE / 2500 FSL / 2010 FEL / TWSP: 25S / RANGE: 27E / SECTION: 26 / LAT: 32.10821 / LONG: -104.158707 ( TVD: 0 feet, MD: 0 feet )

PPP: SWSE / 100 FSL / 2010 FEL / TWSP: 25S / RANGE: 27E / SECTION: 26 / LAT: 32.094196 / LONG: -104.158554 ( TVD: 0 feet, MD: 0 feet )

PPP: NWSE / 1250 FSL / 2010 FEL / TWSP: 25S / RANGE: 27E / SECTION: 26 / LAT: 32.09737 / LONG: -104.1588627 ( TVD: 0 feet, MD: 0 feet )

BHL: NWNE / 280 FNL / 2010 FEL / TWSP: 25S / RANGE: 27E / SECTION: 23 / LAT: 32.12192 / LONG: -104.158888 ( TVD: 10222 feet, MD: 20646 feet )

#### **BLM Point of Contact**

Name: Tenille Ortiz

Title: Legal Instruments Examiner

Phone: 5752342224 Email: tortiz@blm.gov

(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 fisted Bureau of Land Management office for further information.



(Form 3160-3, page 4)

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

**OPERATOR'S NAME:** CHEVRON USA INCORPORATED

LEASE NO.: | NMNM107369

WELL NAME & NO.: | HH CE 26 23 FED 002 4H

**SURFACE HOLE** | 293'/N & 2067'/E

**FOOTAGE:** 

**BOTTOM HOLE FOOTAGE** | 280'/N & 2010'/E

LOCATION: | SECTION 35, T25S, R27E, NMPM

COUNTY: | EDDY

COA

H2S	← Yes	€ No	
Potash	• None	Secretary	<b>C</b> R-111-P
Cave/Karst Potential	C Low		ে High
Variance	None	Flex Hose	• Other
Wellhead	Conventional	Multibowl	C Both
Other	☐ 4 String Area	Capitan Reef	T WIPP

#### A. Hydrogen Sulfide

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

#### **B. CASING**

- 1. The 13-3/8 inch surface casing shall be set at approximately 450 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)

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

#### Primary Casing Design:

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

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. Excess calculates to 11% additional cement
  might be required.
- b. Second stage above DV tool:
  - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
- 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:
  - Cement should tie-back at least 200 feet into previous casing string.
     Operator shall provide method of verification. Excess calculates to 10% additional cement might be required.

#### **Contingency Casing Design:**

- 4. The minimum required fill of cement behind the 7-5/8 inch intermediate liner is:
  - Cement should tie-back 100 feet into the previous casing. Operator shall provide method of verification. Excess calculates to 15% additional cement might be required.
- 5. The minimum required fill of cement behind the 5 1/2 X 5 inch production casing is:

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

#### C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi.
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9-5/8 intermediate casing shoe shall be 5000 (5M) psi.

#### D. SPECIAL REQUIREMENT(S)

#### **Communitization Agreement**

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

#### Well Name:

Operator shall submit a sundry to add 'Com' to the well name.

## **GENERAL REQUIREMENTS**

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
  - Chaves and Roosevelt Counties
    Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.
    During office hours call (575) 627-0272.
    After office hours call (575)
  - Eddy County
     Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
  - ✓ Lea 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 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log (one log per well pad is acceptable) run from TD to surface (horizontal well vertical portion of hole) shall

be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

#### A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing 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

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larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

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

#### **B. PRESSURE CONTROL**

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test
  - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
  - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

- a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, no tests shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug. The results of the test shall be reported to the appropriate BLM office.
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes. This test shall be performed prior to the test at full stack pressure.
- g. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

#### C. DRILLING MUD

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

#### D. WASTE MATERIAL AND FLUIDS

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

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

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# PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME:
LEASE NO.:
NMNM107369
WELL NAME & NO.:
SURFACE HOLE FOOTAGE:
BOTTOM HOLE FOOTAGE
LOCATION:
COUNTY:
CHEVRON USA INCORPORATED
NMNM107369
HH CE 26 23 FED 002 4H
293'/N & 2067'/E
280'/N & 2010'/E
SECTION 35, T25S, R27E, NMPM
EDDY

## **TABLE OF CONTENTS**

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

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

#### I. GENERAL PROVISIONS

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

#### II. PERMIT EXPIRATION

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

## III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

#### IV. NOXIOUS WEEDS

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

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

## V. SPECIAL REQUIREMENT(S)

## **Cave and Karst Conditions of Approval for APDs**

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

## **Cave/Karst Surface Mitigation**

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

## **Construction:**

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

#### No Blasting:

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

#### Pad Berming:

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

#### Tank Battery Liners and Berms:

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

#### **Leak Detection System:**

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

#### **Automatic Shut-off Systems:**

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

## **Cave/Karst Subsurface Mitigation**

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

#### **Rotary Drilling with Fresh Water:**

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

## **Directional Drilling:**

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

#### **Lost Circulation:**

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

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

#### **Abandonment Cementing:**

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

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#### **Pressure Testing:**

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

#### **FLOWLINES (SURFACE):**

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

#### Watershed

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

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

A leak detection plan will be submitted to the BLM Carlsbad Field Office for approval prior to pipeline installation. The method could incorporate gauges to detect pressure drops, situating valves and lines so they can be visually

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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.

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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.

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#### **Turnouts**

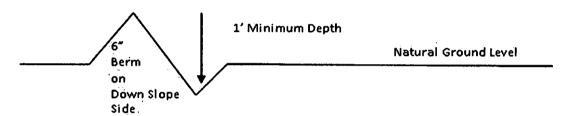
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

#### Drainage

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

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

#### Cross Section of a Typical Lead-off Ditch



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

#### Formula for Spacing Interval of Lead-off Ditches

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

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

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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

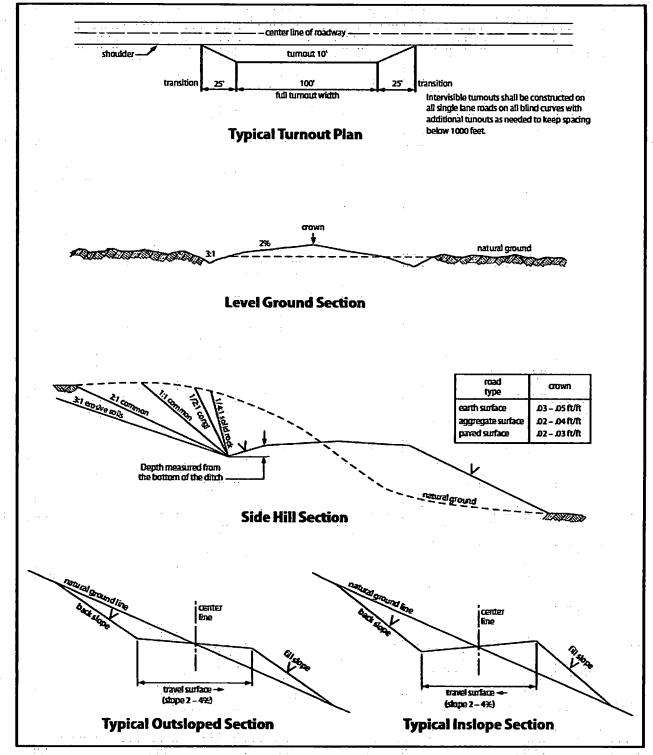


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

## 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 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

#### Chemical and Fuel Secondary Containment and Exclosure Screening

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

#### **Open-Vent Exhaust Stack Exclosures**

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

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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

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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 <u>36</u> inches between the top of the pipe and ground level.
- 7. The maximum allowable disturbance for construction in this right-of-way will be **30** feet:
  - Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed <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.)

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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.

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- 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.

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#### 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>	<u>lb/acre</u>
Plains lovegrass (Eragrostis intermedia)	0.5
Sand dropseed (Sporobolus cryptandrus)	1.0
Sideoats grama (Bouteloua curtipendula)	5.0
Plains bristlegrass (Setaria macrostachya)	2.0
*Pounds of nure live seed:	

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



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



## **Operator Certification**

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

NAME: Kayla McConnell

Signed on: 08/13/2018

Title: Permitting Specialist

Street Address: 6301 Deauville Blvd

City: Midland

State: TX

Zip: 79706

Phone: (432)687-7375

Email address: kaylamcconnell@chevron.com

## **Field Representative**

Representative	Name:
----------------	-------

Street Address:

State:

Zip:

City: Phone:

Email address:



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

# Application Data Report

APD ID: 10400032981

**Operator Name: CHEVRON USA INCORPORATED** 

Well Name: HH CE 26 23 FED 002

Well Type: CONVENTIONAL GAS WELL

Submission Date: 08/13/2018

flighlighted data<sup>\*</sup> reflects the most <u>recent</u> changes

Show Final Text

Well Number: 4H

Well Work Type: Drill

#### Section 1 - General

APD ID:

10400032981

Tie to previous NOS?

Submission Date: 08/13/2018

**BLM Office: CARLSBAD** 

User: Kayla McConnell

Title: Permitting Specialist

Federal/Indian APD: FED

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

Lease number: NMNM107369

Lease Acres: 1200

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? YES

**Permitting Agent? NO.** 

**APD Operator: CHEVRON USA INCORPORATED** 

Operator letter of designation:

#### **Operator Info**

**Operator Organization Name: CHEVRON USA INCORPORATED** 

Operator Address: 6301 Deauville Blvd.

**Zip:** 79706

**Operator PO Box:** 

**Operator City: Midland** 

State: TX

**Operator Phone: (432)687-7866** 

**Operator Internet Address:** 

#### **Section 2 - Well Information**

Well in Master Development Plan? EXISTING

Well in Master SUPO? NO

Master SUPO name:

AREA

Well in Master Drilling Plan? NO

Well Name: HH CE 26 23 FED 002

Well Number: 4H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: PURPLE SAGE

Master Drilling Plan name:

**Pool Name: WOLFCAMP** 

(GAS)

Mater Development Plan name: HAYHURST DEVELOPMENT

**Operator Name: CHEVRON USA INCORPORATED** 

Well Name: HH CE 26 23 FED 002 Well

Well Number: 4H

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

**Describe other minerals:** 

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

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: HH CE Number: 1H - 4H

26 23 FED 002

Well Class: HORIZONTAL Number of Legs: 1

Well Work Type: Drill

Well Type: CONVENTIONAL GAS WELL

**Describe Well Type:** 

Well sub-Type: EXPLORATORY (WILDCAT)

Describe sub-type:

Distance to town: 11.5 Miles

Distance to nearest well: 1710 FT

Distance to lease line: 293 FT

Reservoir well spacing assigned acres Measurement: 640 Acres

Well plat:

HH\_CE\_26\_23\_FED\_002\_4H\_C\_102\_Cert\_signed\_20180813115806.pdf

Well work start Date: 06/28/2019

**Duration: 160 DAYS** 

## **Section 3 - Well Location Table**

Survey Type: RECTANGULAR

**Describe Survey Type:** 

Datum: NAD83

**Vertical Datum: NAVD88** 

Survey number:

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
SHL Leg #1	293	FNL	206 7	FEL	25S	27E	35	Aliquot NWNE	32.09312 4	- 104.1587 32	EDD Y	MEXI	NEW MEXI CO	F	NMNM 107369	312 8	0	0
KOP Leg #1	293	FNL	206 7	FEL	25S	27E	35	Aliquot NWNE	32.09312 4	- 104.1587 32	EDD Y	NEW MEXI CO		F		312 8	0	0
PPP Leg #1	100	FSL	201 0	FEL	25S	27E	26	Aliquot SWSE	32.09419 6	- 104.1585 54	EDD Y	NEW MEXI CO	145	F		312 8	0	0

**Operator Name: CHEVRON USA INCORPORATED** 

Well Name: HH CE 26 23 FED 002

Well Number: 4H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	DVT
PPP Leg #1	125 0	FSL	201 0	FEL	<b>25</b> S	27E	26	Aliquot NWSE	32.09737	- 104.1586 27	EDD Y	NEW MEXI CO		s	STATE	312 8	0	0
PPP Leg #1	0	FSL	201 0	FWL	258	27E	23	Aliquot SWSE	32.10811 3	- 104.1588 76	EDD Y	NEW MEXI CO	NEW MEXI CO	S	STATE	312 8	0	0
	250 0	FSL	201 0	FEL	25S	27E	26	Aliquot SWNE	32.10082 1	- 104.1587 07	EDD: Y	NEW MEXI CO	• • • • • • • • • • • • • • • • • • •	F	NMNM 107369	312 8	0	0
EXIT Leg #1	330	FNL	201 0	FEL	258	27E	23	Aliquot NWNE	32.12178 2	- 104.1588 88	EDD Y	NEW MEXI CO	—	S	STATE	312 8	0	0
BHL Leg #1	280	FNL	201 0	FEL	258	27E	23	Aliquot NWNE	32.12192	- 104.1588 88	EDD Y	NEW MEXI CO		S	STATE	- 709 4	206 46	102 22



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

Drilling Plan Data Report 01/07/2019

APD ID: 10400032981

Submission Date: 08/13/2018

lighlighted data reflects the most secent changes

Well Name: HH CE 26 23 FED 002

Operator Name: CHEVRON USA INCORPORATED

Well Number: 4H

**Show Final Text** 

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

## **Section 1 - Geologic Formations**

Formation			True Vertical	Measured	1		Producing
· ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
1	QUATERNARY	3129	0	0	ANHYDRITE	NONE	No
2	CASTILE	2236	893	893	ANHYDRITE	NONE	No
3	LAMAR	-87	2323	2323	LIMESTONE	NONE	No
4	CHERRY CANYON	-949	3185	3185	SANDSTONE	NONE	No
5	BRUSHY CANYON	-2115	4351	4351	SANDSTONE	NATURAL GAS,OIL	No
6	AVALON SAND	-3859	6095	6095	LIMESTONE,SHALE,SA NDSTONE	NATURAL GAS,OIL	No
7	BONE SPRING 1ST	-4671	6907	6907	SANDSTONE	NATURAL GAS,OIL	No
8	BONE SPRING 2ND	-5266	7502	7502	SANDSTONE	NATURAL GAS,OIL	No
9	BONE SPRING 3RD	-6411	8647	8647	SHALE	NATURAL GAS,OIL	No
10	WOLFCAMP	-7093	10222	20646	LIMESTONE,SHALE,SA NDSTONE	NATURAL GAS,OIL	Yes

### **Section 2 - Blowout Prevention**

Pressure Rating (PSI): 5M

Rating Depth: 10222

guipment: Will have a minimum of 5000 PSI rig stack for drill out below surface easing. The Wolfeamp is not exposed unfil drill out of the intermediate easing, and the stack will be tested as specified in the attached testing requirements, upon NU and not to exceed 30 days. Batch drilling of the surface, intermediate, and production will take place. A full BOL test will be performed unless approval from BLM is received otherwise. Hex choke hose will be used for all wells on the pad (see attached spees). Chevron requests a variance to use a CoLlex hose with a metal protective covering that will be utilized between the BOP and Choke manifold.

### Requesting Variance? YES

Variance request: Chevron requests a variance to use a LMC Technologies UEES Multibowl wellhead, which will be run through the rig floor on surface casing. FOPL will be nippled up and tested after comenting surface casing. Subsequent tests will be performed as needed, not to exceed 30 days. The field report from LMC 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 menuel has been placed on file with the BLM office and remains unchanged from previous submittal.

Well Name: HH CE 26 23 FED 002

Well Number: 4H

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

### **Choke Diagram Attachment:**

5K\_BOPE\_Choke\_Schematic\_20180809145915.pdf

### **BOP Diagram Attachment:**

5K\_BOPE\_Schematic\_20180809145933.pdf

Continental\_Test\_Specs\_and\_Pressure\_Test\_20180809150159.pdf

## **Section 3 - Casing**

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	450	0	450			450	J-55	54.5	STC	5.09	1.41	DRY	3.56	DRY	3.56
1	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	9106	0	9106				OTH ER	43.5	LTC	1.74	1.4	DRY	1.81	DRY	1.81
	PRODUCTI ON	8.5	5.5	NEW	API	N	0	20646	0	10222			20646	P- 110		OTHER - TXP BTC	1.53	1.11	DRY	2.35	DRY	2.35

### **Casing Attachments**

Casing ID: 1

String Type: SURFACE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

13\_3\_8\_Casing\_Specs\_20180809150253.pdf

Well Name: HH CE 26 23 FED 002

Well Number: 4H

### **Casing Attachments**

Casing ID: 2

String Type: INTERMEDIATE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

9.625\_Casing\_Specs\_20180809150308.pdf

Casing ID: 3

**String Type:**PRODUCTION

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

5.5\_Casing\_Specs\_20180809150318.pdf

### **Section 4 - Cement**

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type		Additives
SURFACE	Lead		0	450	488	1.34	14.8	117	50	Class C	N/A	-

INTERMEDIATE	Lead	2097	0	1597	276	2.56	11.9	126	50	Class C	N/A
INTERMEDIATE	Tail		1597	2097	118	1.33	14.8	28	0	Class C	N/A
INTERMEDIATE	Lead	2097	2097	8106	808	2.56	11.9	369	10	Class C	N/A

Well Name: HH CE 26 23 FED 002 Well Number: 4H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Tail		8106	9106	287	1.33	14.8	68	10	Class C	N/A
PRODUCTION	Lead		8806	1964 6	2313	1.18	15.6	487	10	Class C	N/A
PRODUCTION	Tail		1964 6	2064 6	138	1.9	16	47	10	Class H	N/A

## **Section 5 - Circulating Medium**

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

Describe the mud monitoring system utilized: A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH. Visual mud monitoring equipment shall be in place to detect volume changes indicating loss or gain of circulating fluid volume. When abnormal pressures are anticipated -- a pit volume totalizer (PVT), stroke counter, and flow sensor will be used to detect volume changes indicating loss or gain of circulating fluid volume. A weighting agent and lost circulating material (LCM) will be onsite to mitigate pressure or lost circulation as hole conditions dictate.

### **Circulating Medium Table**

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics	
0	450	SPUD MUD	8.3	8.9		ı			-			
450	9106	OIL-BASED MUD	8.7	9.6								·
9106	1022 2	OIL-BASED MUD	9	13.6								

Well Name: HH CE 26 23 FED 002 Well Number: 4H

### Section 6 - Test, Logging, Coring

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

Drill stem tests are not planned

The logging program will be as follows:

Type: Mudlogs Logs: 2 man mudlog Interval: Csg to TD Timing: Drillout of Int. Csg Vendor: TBD Type: LWD Logs: MWD gamma Interval: Int. and Prod. Hole Timing: while drilling Vendor: TBD

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

GR.MWD.MUDLOG

### Coring operation description for the well:

Conventional whole core samples are not planned.

### Section 7 - Pressure

**Anticipated Bottom Hole Pressure: 7601** 

**Anticipated Surface Pressure: 5352.16** 

Anticipated Bottom Hole Temperature(F): 150

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

HH\_CE\_26\_23\_FED\_002\_H2S\_PLAN\_20180809152118.pdf

### **Section 8 - Other Information**

#### Proposed horizontal/directional/multi-lateral plan submission:

HH\_CE\_26\_23\_FED\_002\_4H\_DIRECTIONAL\_PLAN\_Rev0\_YJ\_26Jul18\_20180813122457.pdf
HH\_CE\_26\_23\_FED\_002\_4H\_WALL\_PLOT\_Rev0\_YJ\_26Jul18\_20180813122516.pdf
HH\_CE\_26\_23\_FED\_002\_4H\_NP\_AC\_Summary\_Report\_Rev0\_YJ\_26Jul18\_20180813122708.pdf

Other proposed operations facets description:

### Other proposed operations facets attachment:

HH\_CE\_26\_23\_Fed\_002\_4H\_9PT\_DRILLING\_PLAN\_v1\_20180813122740.pdf

Other Variance attachment:

### **CHOKE MANIFOLD SCHEMATIC**

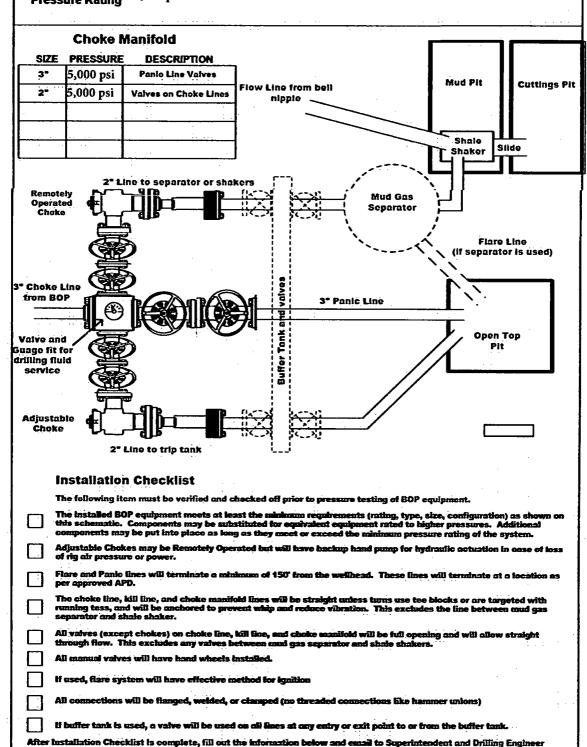
### **Minimum Requirements**

**OPERATION**: Intermediate and Production Hole Sections

Minimum System Pressure Rating :5,000 psi

> Wellname: Representative:

> > Date:



## **BLOWOUT PREVENTOR SCHEMATIC**

### **Minimum Requirements**

**OPERATION**: Intermediate and Production Hole Sections

**Minimum System** 

Pr	essui	re Rating	<b>:</b> 5,000 psi	
	SIZE	PRESSUR	E DESCRIPTION	¬
A		N/A	Bell Nipple	
В	13 5/8	5,000 psi	Annular	
С	13 5/8	5,000 psi	Pipe Rom	Flowline to Shaker
D	13 5/8	5,000 psi	Blind Rem	Fill Up Lino — A
E	13 5/8	5,000 psi	Mud Cross	]
F	·			
	DSA	As require	d for each hole size	<u> </u>
•	C-Sec		<u></u>	
!	B-Sec	13-5/8	3" 5K x 11" 5K	
-	A-Sec	13-3/8" 5	SOW x 13-5/8" 5K	
		Kill I	Line	<b>76-8-5</b>
Ş	SIZE I	PRESSURE	DESCRIPTION	<b>(30,30</b> c
:	2*	5,000 psi	Gate Valve	
2	2-	5,000 psi	Gate Valve	
	2"	5,000 psi	Check Valve	
				1
_				Kill Line- 2" minimum Choke Line to Choke Manifold-
		Choke	alino D <sup>e</sup>	
S	JZE F	PRESSURE	DESCRIPTION	
3		5,000 psi	Gate Valve	HCR Valve
3		5,000 psi	HCR Valve	1 Chryalve
				1 . <u>D</u> <u>U</u> I;= <b>©</b> □
				1 ( <del>[</del> ₽)
				T <sub>G</sub> T
_			· · · · · · · · · · · · · · · · · · ·	ų.
	i.	rstallatio	n Checklist	
	TI	be fallowing i	tem must be verified an	d checked off prior to pressure testing of BOP equipment.
			1 11 1111	
L	_  <del>10.1</del>	s schematic.	Components may be su	least the minimum requirements (rating, type, size, configuration) as shown or ubstituted for equivalent equipment rated to higher pressures. Additional ong as they meet or exceed the minimum pressure rating of the system.
	. Ası	valves on the	e kill line and choke line	will be full opening and will allow straight though flow.
	110	e kill line and d will be anci	choke line will be strain cored to prevent whip ar	ight unless turns use tee blocks or are targeted with running tess, and reduce vibration.
		mial (hand w talled on all s	heels) or automatic lock manual valves on the ch	king devices will be installed on all ram preventers. Hand wheels will also be take line and kill line.
			nstalled in the closing li emain open unless occu	ine as close as possible to the annular preventer to act as a locking device. annulator is inoperative.
		per kelly coc mections in (		be available on rig floor along with safety valve and subs to fit all drill string
			• •	
AR	er tast	aflation Chec	klist is complete, fill out	t the Information below and email to Superintendent and Drilling Engineer
		W	ellname:	
			entative:	
			Date	



Industrial Kft.

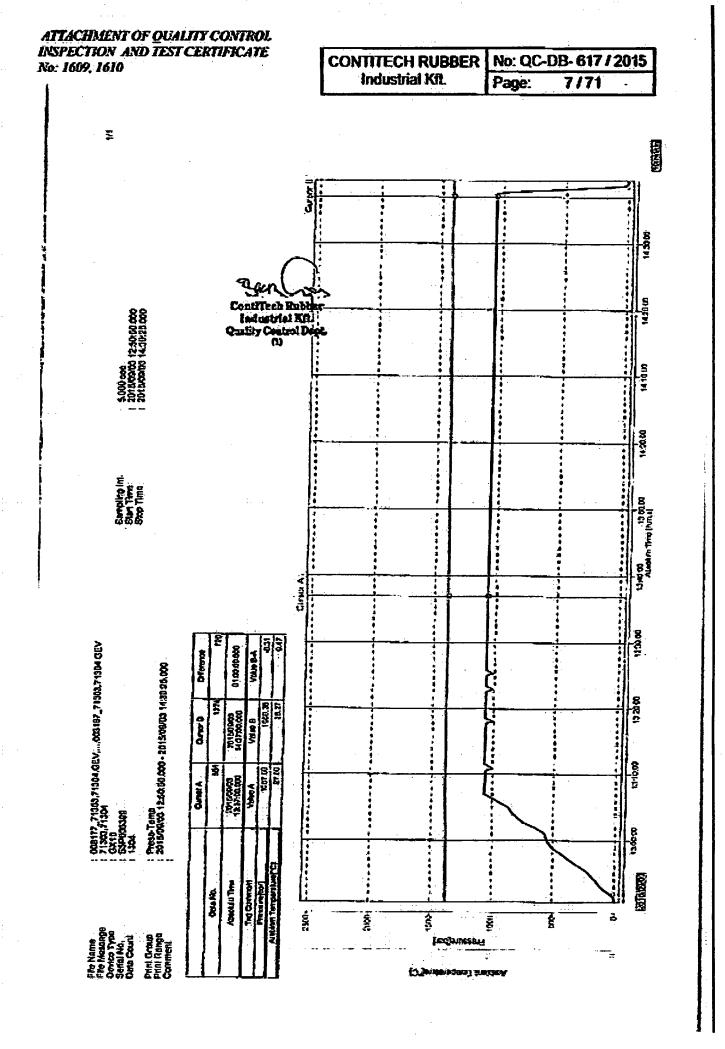
CONTITECH RUBBER No: QC-DB-617/2015

Page:

Contilech

### **Hose Data Sheet**

CRI Order No.	541802
Customer	ContiTech Oil & Marine Corp.
Customer Order No	4500606483 COM757207
Item No.	1
Hose Type	Flexible Hose
Standard	API SPEC 16 C - TS/2
Inside dia in inches	3
Length	45 ft
Type of coupling one end	FLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE CW BX155ST/ST INLAID R.GR. SOUR
Type of coupling other end	FLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE C/W 8X155 ST/ST INLAID R.GR. SOUR
H2S service NACE MR0175	Yes
Working Pressure	10 000 psi
Design Pressure	10 000 psi
Test Pressure	15 000 psi
Safety Factor	2,25
Marking	USUAL PHOENIX
Cover	NOT FIRE RESISTANT
Outside protection	St.steel outer wrap
Internal stripwound tube	No
Lining	OIL + GAS RESISTANT SOUR
Safety clamp	Yes
Lifting collar	Yes
Element C	Yes
Safety chain	No
Safety wire rope	Yes
Max.design temperature [°C]	100
Min.design temperature [°C]	-20
Min. Bend Radius operating [m]	0,90
Min. Bend Radius storage [m]	0,90
Sectrical continuity	The Hose is electrically continuous
Type of packing	WOODEN CRATE ISPM-15





# **Casing and Tubing Performance Dat**

#### PIPE BODY DATA

### GEOMETRY

· · · · · · · · · · · · · · · · · · ·		<del></del>	GEVALIKI		
Outside Diameter	13.375 in	Wall Thickness	0.380 in	API Drift Diameter	12.459 in
Nominal Weight	54.50 lbs/ft	Nominal ID	12.615 in	Alternative Drift Diameter	n.a.
Plain End Weight	52.79 lbs/ft	Nominal cross section	15.513 in		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			PERFORMANCI	ر بولد موسود مده در موسود و داخر در	
Steel Grade	J55	Minimum Yield	<b>55,000</b> psi	Minimum Ultimate	75,000 psi
Tension Yield	853,000 in	Internal Pressure Yield	2,730 psi	Collapse Pressure	1,130 psi
Available Seamless	Yes	Available Welded	Yes		
		CON	NECTION DA	TA	
TYPE: STC		ogi a na ann an sao an s	GEOMETR)		
Coupling Reg OD	14.375 in	Threads per in	8	Thread turns make up	3.5
		,	PERFORMANCI		i man e le man i pagir g
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



**TH DS-12.0880** 12 Dec 13 Rev 00

9 5/8" 43.50 ppf L80 IC - LTC

## (USC Units)

		PIPE BOD GEOM			
Nominal OD	9.625 in.	Nominal Weight	43.50 lbs/ft	Standard Drift Dlameter	8.599 in.
Nominal ID	8.755 in.	Wall Thickness	0.435 in.	Special Drift Diameter	8.625 in.
Plain End Weight	42.73 lbs/ft		<del></del>	<u> </u>	
		PERFOR	MANCE		
Body Yield Strength	1005 x 1000 lbs	Internal Yield	6330 psi	Collapse	4830 psi
		CONNECTI			
		GEOM	ETRY		
Coupling Regular OD	10.625 in.	Threads per Inch	8	Hand-Tight Standoff Thread Turns	3.5
		PERFORM	IANCE (1)	<del></del>	
Joint Strength	813 x 1000 lbs.	Internal Pressure Resistance	6330 psi		

<sup>(1)</sup> Non API size/grade combination for LTC.
Performance calculated according to API Standards 5CT and 5B and API Technical Report 5C3.
Joint Strength as per API TR 5C3 1st Edition/ISO 10400:2007 - Section 9
Internal Pressure Resistance as per API TR 5C3 1st Edition/ISO 10400:2007 - Section 10

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

## July 07 2015



Size: 5.500 in.

**Wall**: 0.361 in.

Weight: 20.00 lbs/ft

Grade: P110

Min. Wall Thickness: 87.5 %

<b>Tenaris</b>
----------------

Casing/Tubing: CAS

**Connection**: TenarisXP™ BTC

:.		PIPE BODY	DATA		
		GEOME	ΓRY		
Nominal OD	<b>5.500</b> in.	Nominal Weight	20.00 lbs/ft	Standard Drift Diameter	<b>4.653</b> in.
Nominal ID	<b>4.778</b> in.	Wall Thickness	<b>0.361</b> in.	Special Drift Diameter	N/A
Plain End Weight	19.83 lbs/ft				
		PERFORM	ANCE		<del></del>
Body Yield Strength	<b>641</b> x 1000 lbs	Internal Yield	<b>12630</b> psi	SMYS	<b>110000</b> psi
Collapse	<b>11100</b> psi				
Connection OD	<b>6.100</b> in.	Coupling Length	<b>9.450</b> in.	Connection ID	<b>4.766</b> in.
Critical Section  Area	<b>5.828</b> sq. in.	Threads per in.	5.00	Make-Up Loss	<b>4.204</b> in.
***************************************		PERFORM	ANCE	<u> </u>	<del>- : : : : :</del>
Tension Efficiency	100 %	Joint Yield Strength	<b>641</b> x 1000 lbs	Internal Pressure	<b>12630</b> psi
Structural Compression Efficiency	100 %	Structural Compression Strength	<b>641</b> x 1000 lbs	Structural Bending <sup>(2)</sup>	<b>92</b> °/100 fi
	<b>11100</b> psi				 
		<u>                                     </u>			
External Pressure Capacity	·	STIMATED MAKE-	UP TORQUES <sup>(</sup>	3)	
	·	STIMATED MAKE-I	UP TORQUES <sup>(</sup> 12520 ft-lbs	Υ	13770 ft-II
Capacity	11270 ft-lbs		<b>12520</b> ft-lbs	Maximum	•

### **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 <a href="mailto:licensees@oilfield.tenaris.com">licensees@oilfield.tenaris.com</a>. Torque values may be further reviewed. For additional information, please contact us at <a href="mailto:contact-tenarishydril@tenaris.com">contact-tenarishydril@tenaris.com</a>

## H<sub>2</sub>S Preparedness and Contingency Plan Summary



## **Training**

MCBU Drilling and Completions H<sub>2</sub>S training requirements are intended to define the minimum level of training required for employees, contractors and visitors to enter or perform work at MCBU Drilling and Completions locations that have known concentrations of H<sub>2</sub>S.

### **Awareness Level**

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

- 1. Physical and chemical properties of H<sub>2</sub>S
- 2. Health hazards of H2S
- 3. Personal protective equipment
- 4. Information regarding potential sources of H<sub>2</sub>S
- 5. Alarms and emergency evacuation procedures

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

## Advanced Level H<sub>2</sub>S Training

Employees and contractors required to work in areas that may contain H<sub>2</sub>S will be provided with Advanced Level H<sub>2</sub>S training prior to initial assignment. In addition to the Awareness Level requirements, Advanced Level H<sub>2</sub>S training will include:

- H₂S safe work practice procedures;
- 2. Emergency contingency plan procedures;
- 3. Methods to detect the presence or release of H<sub>2</sub>S (e.g., alarms, monitoring equipment), including hands-on training with direct reading and personal monitoring H<sub>2</sub>S 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 H<sub>2</sub>S training;
- 6. Proficiency examination covering all course material.

Advanced H<sub>2</sub>S training courses will be instructed by personnel who have successfully completed an appropriate H<sub>2</sub>S train-the-trainer development course (ANSI/ASSE Z390.1-2006) or who possess significant past experience through educational or work-related background.

## H<sub>2</sub>S Preparedness and Contingency Plan Summary



## H<sub>2</sub>S Training Certification

All employees and visitors will be issued an H<sub>2</sub>S training certification card (or certificate) upon successful completion of the appropriate H<sub>2</sub>S training course. Personnel working in an H<sub>2</sub>S environment will carry a current H<sub>2</sub>S 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.

## H<sub>2</sub>S Equipment

## Respiratory Protection

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

## **Visual Warning System**

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

## H<sub>2</sub>S Detection and Monitoring System

- a) H<sub>2</sub>S monitoring system (sensor head, warning light and siren) placed throughout rig.
  - Drilling Rig Locations: at a minimum, in the area of the Shale shaker, rig floor, and bell nipple.
  - Workover Rig Locations: at a minimum, in the area of the Cellar, rig floor and circulating tanks or shale shaker.

## H₂S Preparedness and Contingency Plan Summary



## **Well Control Equipment**

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

## **Mud Program**

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

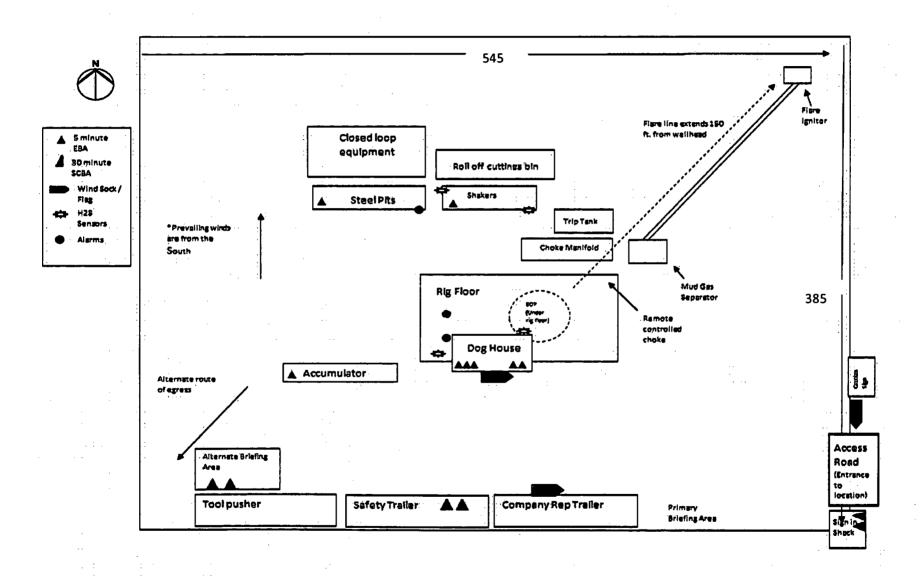
- 1. Use of a degasser
- 2. Use of a zinc based mud treatment
- 3. Increasing mud weight

## **Public Safety - Emergency Assistance**

<u>Agency</u>	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



# H<sub>2</sub>S Preparedness and Contingency Plan Summary



Page 4 of 4



### Report Chevron HH CE 26 23 FED 002 4H Rev0 YJ 26Jul18 Proposal Geodetic



Yersion / Patch:

запуеу Мата:

Structure / Slot:

: tidA / IMU

Borehole:

Well:

Fleid:

:trail3

### (NaI9 19G-noV)

North: Local Coord Referenced To: . 1211.7 Grid Convergence Used: Total Corr Mag North≫Grid North: 2,10,740.0 59,788 ... August 02, 2018 ... HDGM 2018 ... Grid North ... Grid N Coordinate Retenence System: ADD27 New Mexico State Plane, Essatem Zone, US Feel Location, Lail Long: N 25° 5° 24,81017°, W 104° 9° 28,66611°
CRB OHd KUEY/X; N 25° 5° 24,81017°, W 104° 9° 28,66611°
CRB OHd Scale Factor: 0,99991246 YOUR KETERRICE: Magnetic Declination Model: Oravity Model: Total Magnetic Field Strength: Magnetic Dip Anglo: Declination Date: M9AĐ Tri 8£1.80€Y≱ August 02, 2018 103,086 \* / 10854,780 f. / 6,354 / 1,062 Survey Date: Ton / AHD / DDI / ERD Ratio: Scabod / Ground Elevation: Magnotic Declination: Total Gravity Field Strongth: (bess 63308.9) mgm (544.888 Chevron HH CE 26 23 FED 002 4H Ravo YJ 26Jul 8 3128,000 ft above MSL 7.266 \* Original Borehore 3158.000 ft above MSL TVD Reference Elevation: HH CE 58 53 LED 005 4H TVD Reference Datum: OPPONION HH CE SE S3 EED 005 4H / HH CE SE S3 EED 005 4H **KKB=30.** Minimum Curvature / Lubinsti 359.318 ° (Grid North) 0.000 ft, 0.000 ft Survey / DLS Computation: Vertical Section Azimuth: Vertical Section Origin: August 03, 2018 - 02:31 PM Chevion

AZEC

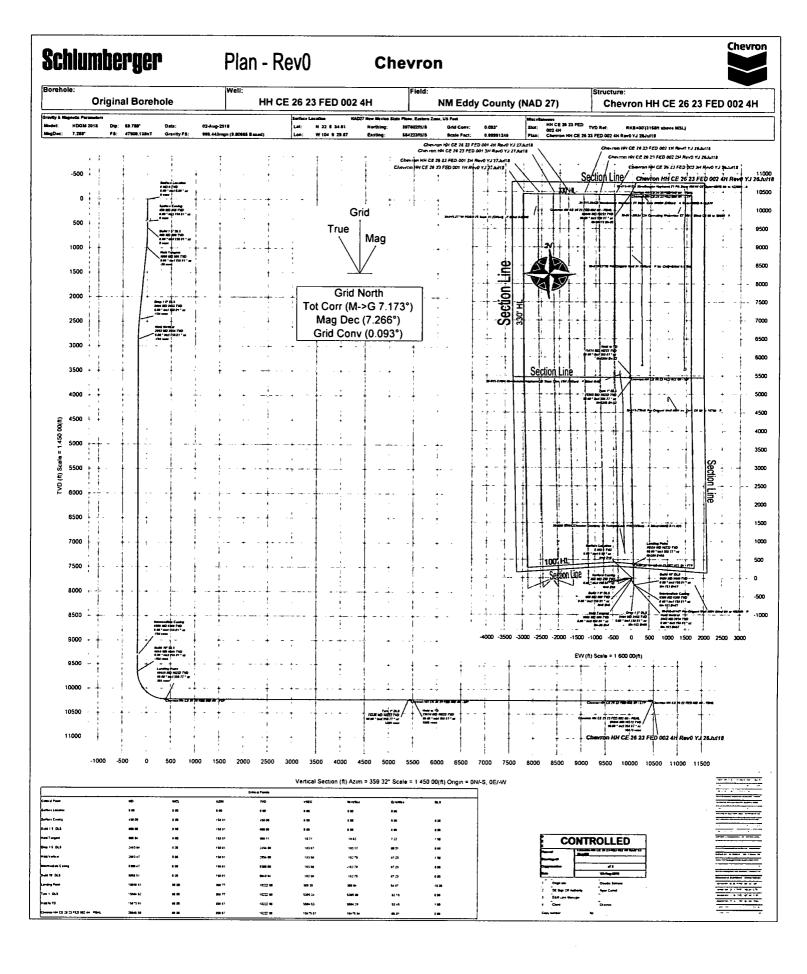
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**QVT** 

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69 26 FOLM DOTES ZE N ZZOSZYSS CZSSI/SE DOTO CZ/9 6/281 SCSI. CS/060/ 18/651 DOTO DOTODIA 69 26 FOLM DOTES ZE N ZZOSZYSS CZSSI/SE DOTO CZ/9 6/281 SCSI. CS/0689 18/651 DOTO DOTODIA 69 26 FOLM DOTES ZE N ZZOSZYSS CZSSI/SE DOTO CZ/9 6/281 SCSI. CS/0689 18/651 DOTO DOTODIA 69 26 FOLM DOTES ZE N ZZOSZYSS CZSSI/SE DOTO CZ/9 6/281 SCSI. CS/0689 18/651 DOTO DOTODIA 69 26 FOLM DOTES ZE N ZZOSZYSS CZSSI/SE DOTO CZ/9 6/281 SCSI. CS/0689 18/651 DOTO DOTODIA 69 26 FOLM DOTES ZE N ZZOSZYSS CZSSI/SE DOTO CZ/9 6/281 SCSI. CS/0689 18/651 DOTO DOTODIA 69 26 FOLM DOTES ZE N ZZOSZYSS CZSSI/SE DOTO CZ/9 6/281 SCSI. CS/0689 18/651 DOTO DOTODIA 69 26 FOLM DOTES ZE N ZZOSZYSS CZSSI/SE DOTO CZ/9 6/281 SCSI. CS/0689 18/651 DOTO DOTODIA 69 26 FOLM DOTES ZE N ZZOSZYSS CZSSI/SE DOTO CZ/9 6/281 SCSI. CS/0689 18/651 DOTO DOTODIA 69 26 FOLM DOTES ZE N ZZOSZYSS CZSSI/SE DOTO CZ/9 6/281 SCSI. CS/0689 18/651 DOTO DOTODIA 69 26 FOLM DOTES ZE N ZZOSZYSS CZSSI/SE DOTO CZ/9 6/281 SCSI. CS/0689 18/651 DOTO DOTODIA 69 26 FOLM DOTES ZE N ZZOSZYSS CZSSI/SE DOTO CZ/9 6/281 SCSI. CS/0689 18/651 DOTO DOTODIA 69 26 FOLM DOTES ZE N ZZOSZYSS CZSSI/SE DOTO CZ/9 6/281 SCSI. CS/0689 18/651 DOTO DOTODIA 69 26 FOLM DOTES ZE N ZZOSZYSS CZSSI/SE DOTO CZ/9 6/281 SCSI. CS/0689 18/651 DOTO DOTODIA 69 26 FOLM DOTES ZE N ZZOSZYSS CZSSI/SE DOTO CZ/9 6/281 SCSI. CS/0689 18/651 DOTO DOTODIA 69 26 FOLM DOTES ZE N ZZOSZYSS CZSSI/SE DOTO CZ/9 6/281 SCSI. CS/0689 18/651 DOTO DOTODIA 69 26 FOLM DOTES ZE N ZZOSZYSS CZSSI/SE DOTO CZ/9 6/281 SCSI. CS/0689 18/651 DOTO DOTODIA 69 26 FOLM DOTES ZE N ZZOSZYSS CZSSI/SE DOTO CZ/9 6/281 SCSI. CS/0889 18/651 DOTO DOTODIA 69 26 FOLM DOTES ZE N ZZOSZYSS CZSSI/SE DOTO CZ/9 6/281 SCSI. CS/0889 18/651 DOTO DOTODIA 69 26 FOLM DOTES ZE N ZZOSZYSS CZSSI/SE DOTO CZ/9 6/281 SCSI. CS/0889 18/651 DOTO DOTODIA 69 26 FOLM DOTES ZE N ZZOSZYSS CZSSI/SE DOTO CZ/9 6/281 SCSI. CS/0889 18/651 DOTO DOTODIA 69 26 FOLM DOTES ZE N ZZOSZYSS CZSSI/SE DOTO CZ/9 6/281 SCSI. CS/0889 18/651 DOTO DOTODIA 69 26 FOLM DOTES ZE N ZZOSZYSS CZSSI/SE DOTO CZ/9 6/281 SCSI. CS/0
69 26 FOLM DOUCES ZC N ZCORPSS CZSILACE DOUD CZ19 61/281 85'81. C5'0604 18:651 00:0 00:00009 69 26 FOLM DOUCES ZC N ZCORPSS CZSILACE DOUD CZ19 61/281 85'81. C5'0689 18:651 00:0 00:0009 69 26 FOLM DOUCES ZC N ZCORPSS CZSILACE DOUD CZ19 61/281 85'81. C5'0689 18:651 00:0 00:0009 69 26 FOLM DOUCES ZC N ZCORPSS CZSILACE DOUD CZ19 61/281 85'81. C5'0689 18:651 00:0 00:0009 69 26 FOLM DOUCES ZC N ZCORPSS CZSILACE DOUD CZ19 61/281 85'81. C5'0689 18:651 00:0 00:0009 69 26 FOLM DOUCES ZC N ZCORPSS CZSILACE DOUD CZ19 61/281 85'81. C5'0689 18:651 00:0 00:0009 69 26 FOLM DOUCES ZC N ZCORPSS CZSILACE DOUD CZ19 61/281 85'81. C5'0689 18:651 00:0 00:0009 69 26 FOLM DOUCES ZC N ZCORPSS CZSILACE DOUD CZ19 61/281 85'81. C5'0689 18:651 00:0 00:0009 69 26 FOLM DOUCES ZC N ZCORPSS CZSILACE DOUD CZ19 61/281 85'81. C5'0689 18:651 00:0 00:0009 69 26 FOLM DOUCES ZC N ZCORPSS CZSILACE DOUD CZ19 61/281 85'81. C5'0689 18:651 00:0 00:0009 69 26 FOLM DOUCES ZC N ZCORPSS CZSILACE DOUD CZ19 61/281 85'81. C5'0689 18:651 00:0 00:0009 69 26 FOLM DOUCES ZC N ZCORPSS CZSILACE DOUD CZ19 61/281 85'81. C5'0689 18:651 00:0 00:0009 69 26 FOLM DOUCES ZC N ZCORPSS CZSILACE DOUD CZ19 61/281 85'81. C5'0689 18:651 00:0 00:0009 69 26 FOLM DOUCES ZC N ZCORPSS CZSILACE DOUD CZ19 61/281 85'81. C5'0689 18:651 00:0 00:0009 69 26 FOLM DOUCES ZC N ZCORPSS CZSILACE DOUD CZ19 61/281 85'81. C5'0689 18:651 00:0 00:0009 69 26 FOLM DOUCES ZC N ZCORPSS CZSILACE DOUD CZ19 61/281 85'81. C5'0689 18:651 00:0 00:0009 69 26 FOLM DOUCES ZC N ZCORPSS CZSILACE DOUD CZ19 61/281 85'81. C5'0689 18:651 00:0 00:0009 69 26 FOLM DOUCES ZC N ZCORPSS CZSILACE DOUD CZ19 61/281 85'81. C5'0689 18:651 00:0 00:0009 69 26 FOLM DOUCES ZC N ZCORPSS CZSILACE DOUD CZ19 61/281 85'81. C5'0689 18:651 00:0 00:0009 69 26 FOLM DOUCES ZC N ZCORPSS CZSILACE DOUD CZ19 61/281 85'81. C5'0689 18:651 00:0 00:0009 69 26 FOLM DOUCES ZC N ZCORPSS CZSILACE DOUD CZ19 61/281 85'81. C5'0689 18:651 00:0 00:0009 69 26 FOLM DOUCES ZC N ZCORPSS CZSILACE DOUD CZ19 61/281 85'81. C5'0689 18:651 00:0 00:0009 69 26 FOLM DOUCES ZC
69 26 FOLM MOTES ZE N ZZOSZYSS CZÓLIJÁSE DOD CZ/9 61/291 95/291 C5/0669 18/651 DOD DODOJE 69/26 POLM MOTES ZE N ZZOSZYSS CZÓLIJÁSE DOD CZ/9 61/291 95/291 C5/0669 18/651 DOD DODOJE 69/26 POLM MOTES ZE N ZZOSZYSS CZÓLIJÁSE DOD CZ/9 61/291 95/291 C5/0669 18/651 DOD DODOJE 69/26 POLM MOTES ZE N ZZOSZYSS CZÓLIJÁSE DOD CZ/9 61/291 95/291 C5/0669 18/651 DOD DODOJE 69/26 POLM MOTES ZE N ZZOSZYSS CZÓLIJÁSE DOD CZ/9 61/291 95/291 C5/0699 18/651 DOD DODOJE 69/26 POLM MOTES ZE N ZZOSZYSS CZÓLIJÁSE DOD CZ/9 61/291 95/291 C5/0699 18/651 DOD DODOJE 69/26 POLM MOTES ZE N ZZOSZYSS CZÓLIJÁSE DOD CZ/9 61/291 95/291 C5/0699 18/651 DOD DODOJE 69/26 POLM MOTES ZE N ZZOSZYSS CZÓLIJÁSE DOD CZ/9 61/291 95/291 C5/0699 18/651 DOD DODOJE 69/26 POLM MOTES ZE N ZZOSZYSS CZÓLIJÁSE DOD CZ/9 61/291 95/291 C5/0699 18/651 DOD DODOJE 69/26 POLM MOTES ZE N ZZOSZYSS CZÓLIJÁSE DOD CZ/9 61/291 95/291 C5/0699 18/651 DOD DODOJE 69/26 POLM MOTES ZE N ZZOSZYSS CZÓLIJÁSE DOD CZ/9 61/291 95/291 C5/0699 18/651 DOD DODOJE 69/26 POLM MOTES ZE N ZZOSZYSS CZÓLIJÁSE DOD CZ/9 61/291 95/291 C5/0699 18/651 DOD DODOJE 69/26 POLM MOTES ZE N ZZOSZYSS CZÓLIJÁSE DOD CZ/9 61/291 95/291 C5/0699 18/651 DOD DODOJE 69/26 POLM MOTES ZE N ZZOSZYSS CZÓLIJÁSE DOD CZ/9 61/291 95/291 C5/0699 18/651 DOD DODOJE 69/26 POLM MOTES ZE N ZZOSZYSS CZÓLIJÁSE DOD CZ/9 61/291 95/291 C5/0695 18/651 DOD DODOJE 69/26 POLM MOTES ZE N ZZOSZYSS CZÓLIJÁSE DOD CZ/9 61/291 95/291 C5/0895 18/651 DOD DODOJE 69/26 POLM MOTES ZE N ZZOSZYSS CZÓLIJÁSE DOD CZ/9 61/291 95/291 C5/0895 18/651 DOD DODOJE 69/26 POLM MOTES ZE N ZZOSZYSS CZÓLIJÁSE DOD CZ/9 61/291 95/291 C5/0895 18/651 DOD DODOJE 69/26 POLM MOTES ZE N ZZOSZYSS CZÓLIJÁSE DOD CZ/9 61/291 95/291 C5/0895 18/651 DOD DODOJE 69/26 POLM MOTES ZE N ZZOSZYSS CZÓLIJÁSE DOD CZ/9 61/291 95/291 C5/0895 18/651 DOD DODOJE 69/26 POLM MOTES ZE N ZZOSZYSS CZÓLIJÁSE DOD CZ/9 61/291 95/291 C5/0895 18/651 DOD DODOJE 69/26 POLM MOTES ZE N ZZOSZYSS CZÓLIJÁSE DOD CZ/9 61/291 95/291 C5/0895 18/651 DOD DODOJE 69/26 POLM MOTES ZE N ZZOSZYSS CZÓLIJÁSE DOD CZ/9 61/291 95/291 95
68 22 6 POLM DOTES ZE N ZZ 08ZP55 CZ 61746E 000 CZ 18 61 Z81 SS C81 CS 0869 18 651 000 000005 68 22 6 POLM DOTES ZE N ZZ 08ZP55 CZ 61746E 000 CZ 18 61 Z81 SS C81 CS 0869 18 651 000 000005 68 22 6 POLM DOTES ZE N ZZ 08ZP55 CZ 61746E 000 CZ 18 61 Z81 SS C81 CS 0869 18 651 000 000005 68 22 6 POLM DOTES ZE N ZZ 08ZP55 CZ 61746E 000 CZ 18 61 Z81 SS C81 CS 0869 18 651 000 000005 68 22 6 POLM DOTES ZE N ZZ 08ZP55 CZ 61746E 000 CZ 18 61 Z81 SS C81 CS 0869 18 651 000 000005 68 22 6 POLM DOTES ZE N ZZ 08ZP55 CZ 61746E 000 CZ 18 61 Z81 SS C81 CS 0869 18 651 000 000005 68 22 6 POLM DOTES ZE N ZZ 08ZP55 CZ 61746E 000 CZ 18 61 Z81 SS C81 CS 0869 18 651 000 000005 68 22 6 POLM DOTES ZE N ZZ 08ZP55 CZ 61746E 000 CZ 18 61 Z81 SS C81 CS 0869 18 651 000 000005 68 22 6 POLM DOTES ZE N ZZ 08ZP55 CZ 61746E 000 CZ 18 61 Z81 SS C81 CS 0869 18 651 000 000005 68 22 6 POLM DOTES ZE N ZZ 08ZP55 CZ 61746E 000 CZ 18 61 Z81 SS C81 CS 0869 18 651 000 000005 68 22 6 POLM DOTES ZE N ZZ 08ZP55 CZ 61746E 000 CZ 18 61 Z81 SS C81 CS 0869 18 651 000 000005 68 22 6 POLM DOTES ZE N ZZ 08ZP55 CZ 61746E 000 CZ 18 61 Z81 SS C81 CS 0849 18 651 000 000005 68 22 6 POLM DOTES ZE N ZZ 08ZP55 CZ 61746E 000 CZ 18 61 Z81 SS C81 CS 0849 18 651 000 000005 68 22 6 POLM DOTES ZE N ZZ 08ZP55 CZ 61746E 000 CZ 18 61 Z81 SS C81 CS 0849 18 651 000 000005 68 22 6 POLM DOTES ZE N ZZ 08ZP55 CZ 61746E 000 CZ 18 61 Z81 SS C81 CS 0849 18 651 000 000005 68 22 6 POLM DOTES ZE N ZZ 08ZP55 CZ 61746E 000 CZ 18 61 Z81 SS C81 CS 0849 18 651 000 000005 68 22 6 POLM DOTES ZE N ZZ 08ZP55 CZ 61746E 000 CZ 18 61 Z81 SS C81 CS 0885 18 651 000 000005 68 22 6 POLM DOTES ZE N ZZ 08ZP55 CZ 61746E 000 CZ 18 61 Z81 SS C81 CS 0885 18 651 000 000005 68 22 6 POLM DOTES ZE N ZZ 08ZP55 CZ 61746E 000 CZ 18 61 Z81 SS C81 CS 0885 18 651 000 000005 68 22 6 POLM DOTES ZE N ZZ 08ZP55 CZ 61746E 000 CZ 18 61 Z81 SS C81 CS 0885 18 651 000 000005 68 22 6 POLM DOTES ZE N ZZ 08ZP55 CZ 61746E 000 CZ 18 61 Z81 SS C81 CS 0885 18 651 000 000005 68 22 6 POLM DOTES ZE N ZZ 08ZP55 CZ 61746E 000 CZ 18 61 Z81 SS C81 CS 0
68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ 61746E OUO CZ 19 61 Z81- 85 C81- C5 OB69 18 651 OUO OUO069 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ 61746E OUO CZ 19 61 Z81- 85 C81- C5 OB69 18 651 OUO OUO069 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ 61746E OUO CZ 19 61 Z81- 85 C81- C5 OB69 18 651 OUO OUO069 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ 61746E OUO CZ 19 61 Z81- 85 C81- C5 OB69 18 651 OUO OUO099 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ 61746E OUO CZ 19 61 Z81- 85 C81- C5 OB69 18 651 OUO OUO099 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ 61746E OUO CZ 19 61 Z81- 85 C81- C5 OB69 18 651 OUO OUO099 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ 61746E OUO CZ 19 61 Z81- 85 C81- C5 OB69 18 651 OUO OUO099 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ 61746E OUO CZ 19 61 Z81- 85 C81- C5 OB69 18 651 OUO OUO099 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ 61746E OUO CZ 19 61 Z81- 85 C81- C5 OB69 18 651 OUO OUO099 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ 61746E OUO CZ 19 61 Z81- 85 C81- C5 OB69 18 651 OUO OUO099 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ 61746E OUO CZ 19 61 Z81- 85 C81- C5 OB69 18 651 OUO OUO099 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ 61746E OUO CZ 19 61 Z81- 85 C81- C5 OB69 18 651 OUO OUO099 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ 61746E OUO CZ 19 61 Z81- 85 C81- C5 OB69 18 651 OUO OUO099 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ 61746E OUO CZ 19 61 Z81- 85 C81- C5 OB69 18 651 OUO OUO099 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ 61746E OUO CZ 19 61 Z81- 85 C81- C5 OB69 18 651 OUO OUO099 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ 61746E OUO CZ 19 61 Z81- 85 C81- C5 OB69 18 651 OUO OUO099 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ 61746E OUO CZ 19 61 Z81- 85 C81- C5 OB69 18 651 OUO OUO099 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ 61746E OUO CZ 19 61 Z81- 85 C81- C5 OB69 18 651 OUO OUO095 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ 61746E OUO CZ 19 61 Z81- 85 C81- C5 OB65 18 651 OUO OUO095 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ 61746E OUO CZ 19 61 Z81- 85 C81- C5 OB65 18 651 OUO OUO095 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ 61746E OUO CZ 19 61 Z81- 85 C81- C5 OB65 18 651 OUO OUO095 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ 61746E OUO CZ 1
68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ61746E OUO CZ18 61/281 S5C81- C5O669 18651 OUO OUO059 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ61746E OUO CZ18 61/281 S5C81- C5O669 18651 OUO OUO059 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ61746E OUO CZ18 61/281 S5C81- C5O669 18651 OUO OUO059 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ61746E OUO CZ18 61/281- S5C81- C5O669 18651 OUO OUO059 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ61746E OUO CZ18 61/281- S5C81- C5O669 18651 OUO OUO059 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ61746E OUO CZ18 61/281- S5C81- C5O669 18651 OUO OUO059 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ61746E OUO CZ18 61/281- S5C81- C5O669 18651 OUO OUO059 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ61746E OUO CZ18 61/281- S5C81- C5O669 18651 OUO OUO059 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ61746E OUO CZ18 61/281- S5C81- C5O669 18651 OUO OUO059 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ61746E OUO CZ18 61/281- S5C81- C5O669 18651 OUO OUO059 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ61746E OUO CZ18 61/281- S5C81- C5O669 18651 OUO OUO059 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ61746E OUO CZ18 61/281- S5C81- C5O669 18651 OUO OUO059 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ61746E OUO CZ18 61/281- S5C81- C5O669 18651 OUO OUO059 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ61746E OUO CZ18 61/281- S5C81- C5O669 18651 OUO OUO059 68 22 6 POLM OUTES ZE N ZZO6ZP55 CZ61746E OUO CZ18 61/281- S5C81- C5O669 18651 OUO OUO059 68 22 6 POLM OUTES ZE N ZZO6ZP55 CZ61746E OUO CZ18 61/281- S5C81- C5O665 18651 OUO OUO059 68 22 6 POLM OUTES ZE N ZZO6ZP55 CZ61746E OUO CZ18 61/281- S5C81- C5O665 18651 OUO OUO059 68 22 6 POLM OUTES ZE N ZZO6ZP55 CZ61746E OUO CZ18 61/281- S5C81- C5O665 18651 OUO OUO059 68 22 6 POLM OUTES ZE N ZZO6ZP55 CZ61746E OUO CZ18 61/281- S5C81- C5O665 18651 OUO OUO059 68 22 6 POLM OUTES ZE N ZZO6ZP55 CZ61746E OUO CZ18 61/281- S5C81- C5O665 18651 OUO OUO059 68 22 6 POLM OUTES ZE N ZZO6ZP55 CZ61746E OUO CZ18 61/281- S5C81- C5O665 18651 OUO OUO059 68 22 6 POLM OUTES ZE N ZZO6ZP55 CZ61746E OUO CZ18 61/281- S5C81- C5O665 18651 OUO OUO055 68 22 6 POLM OUTES ZE N ZZO6ZP55 CZ61746E OUO CZ18 61/281- S5C81- C5O
68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ61746E O0'O CZ/29 6/Z81- 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ61746E OO'O CZ/29 6/Z81- 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ61746E OO'O CZ/29 6/Z81- 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ61746E OO'O CZ/29 6/Z81- 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ61746E OO'O CZ/29 6/Z81- 68 22 6 POLM NOTES ZE N ZZO6ZP55 CZ61746E OO'O CZ/29 6/Z81- 68 22
68 26 FOLM MOTES ZE N ZZO6ZP55 CZ 61746E OTO CZ 1/8 61/281 ST 81 CS 0804 18/651 OTO OTO 00004 18/851 OTO OTO 00004
69 82 6 101 M 00 CCC 2C N ZZ 06Z 155 CZ 61 1/6C 00 0 CZ /8 6/ Z81 SC 18 CC 065 18 651 00 0 00 00 00 00 00 00 00 00 00 00 00
68 22 6 FOLM MODICS ZC N ZZ 08ZF95 CZ 61746C 000 CZ 18 61 Z81 95 C81 C5 0669 18 651 000 000005 68 22 6 FOLM MODICS ZC N ZZ 08ZF95 CZ 61746C 000 CZ 18 61 Z81 95 C81 C5 0669 18 651 000 000005 68 22 6 FOLM MODICS ZC N ZZ 08ZF95 CZ 61746C 000 CZ 18 61 Z81 95 C81 C5 0669 18 651 000 000005 68 22 6 FOLM MODICS ZC N ZZ 08ZF95 CZ 61746C 000 CZ 18 61 Z81 95 C81 C5 0669 18 651 000 000005 68 22 6 FOLM MODICS ZC N ZZ 08ZF95 CZ 61746C 000 CZ 18 61 Z81 95 C81 C5 0669 18 651 000 000005 68 22 6 FOLM MODICS ZC N ZZ 08ZF95 CZ 61746C 000 CZ 18 61 Z81 95 C81 C5 0669 18 651 000 000005 68 22 6 FOLM MODICS ZC N ZZ 08ZF95 CZ 61746C 000 CZ 18 61 Z81 95 C81 C5 0669 18 651 000 000005 68 22 6 FOLM MODICS ZC N ZZ 08ZF95 CZ 61746C 000 CZ 18 61 Z81 95 C81 C5 0669 18 651 000 000005 68 22 6 FOLM MODICS ZC N ZZ 08ZF95 CZ 61746C 000 CZ 18 61 Z81 95 C81 C5 0669 18 651 000 000005 68 22 6 FOLM MODICS ZC N ZZ 08ZF95 CZ 61746C 000 CZ 18 61 Z81 95 C81 C5 0669 18 651 000 000005 68 22 6 FOLM MODICS ZC N ZZ 08ZF95 CZ 61746C 000 CZ 18 61 Z81 95 C81 C5 0669 18 651 000 000005 68 22 6 FOLM MODICS ZC N ZZ 08ZF95 CZ 61746C 000 CZ 18 61 Z81 95 C81 C5 0689 18 651 000 000005 68 22 6 FOLM MODICS ZC N ZZ 08ZF95 CZ 61746C 000 CZ 18 61 Z81 95 C81 C5 0689 18 651 000 000005 68 22 6 FOLM MODICS ZC N ZZ 08ZF95 CZ 61746C 000 CZ 18 61 Z81 95 C81 C5 0689 18 651 000 000005 68 22 6 FOLM MODICS ZC N ZZ 08ZF95 CZ 61746C 000 CZ 18 61 Z81 95 C81 C5 0689 18 651 000 000005 68 22 6 FOLM MODICS ZC N ZZ 08ZF95 CZ 61746C 000 CZ 18 61 Z81 95 C81 C5 0689 18 651 000 000005 68 22 6 FOLM MODICS ZC N ZZ 08ZF95 CZ 61746C 000 CZ 18 61 Z81 95 C81 C5 0685 18 651 000 000005 68 22 6 FOLM MODICS ZC N ZZ 08ZF95 CZ 61746C 000 CZ 18 61 Z81 95 C81 C5 0685 18 651 000 000005 68 22 6 FOLM MODICS ZC N ZZ 08ZF95 CZ 61746C 000 CZ 18 61 Z81 95 C81 C5 0685 18 651 000 000005 68 22 6 FOLM MODICS ZC N ZZ 08ZF95 CZ 61746C 000 CZ 18 61 Z81 95 C81 C5 0685 18 651 000 000005 68 22 6 FOLM MODICS ZC N ZZ 08ZF95 CZ 61746C 000 CZ 18 61 Z81 95 C81 C5 0685 18 651 000 000005 68 22 6 FOLM MODICS ZC N ZZ 08ZF95 CZ 61746C 000 CZ
68 22 6 POLM DOTCS ZC N ZZO6ZP55 CZ 61746C DOTO CZ 18 61 Z81- 85 C81- C5 OB69 18 651 DOTO DOTODS 68 22 6 POLM DOTCS ZC N ZZO6ZP55 CZ 61746C DOTO CZ 18 61 Z81- 85 C81- C5 OB69 18 651 DOTO DOTODS 68 22 6 POLM DOTCS ZC N ZZO6ZP55 CZ 61746C DOTO CZ 18 61 Z81- 85 C81- C5 OB69 18 651 DOTO DOTODS 68 22 6 POLM DOTCS ZC N ZZO6ZP55 CZ 61746C DOTO CZ 18 61 Z81- 85 C81- C5 OB69 18 651 DOTO DOTODS 68 22 6 POLM DOTCS ZC N ZZO6ZP55 CZ 61746C DOTO CZ 18 61 Z81- 85 C81- C5 OB69 18 651 DOTO DOTODS 68 22 6 POLM DOTCS ZC N ZZO6ZP55 CZ 61746C DOTO CZ 18 61 Z81- 85 C81- C5 OB69 18 651 DOTO DOTODS 68 22 6 POLM DOTCS ZC N ZZO6ZP55 CZ 61746C DOTO CZ 18 61 Z81- 85 C81- C5 OB69 18 651 DOTO DOTODS 68 22 6 POLM DOTCS ZC N ZZO6ZP55 CZ 61746C DOTO CZ 18 61 Z81- 85 C81- C5 OB69 18 651 DOTO DOTODS 68 22 6 POLM DOTCS ZC N ZZO6ZP55 CZ 61746C DOTO CZ 18 61 Z81- 85 C81- C5 OB69 18 651 DOTO DOTODS 68 22 6 POLM DOTCS ZC N ZZO6ZP55 CZ 61746C DOTO CZ 18 61 Z81- 85 C81- C5 OB69 18 651 DOTO DOTODS 68 22 6 POLM DOTCS ZC N ZZO6ZP55 CZ 61746C DOTO CZ 18 61 Z81- 85 C81- C5 OB69 18 651 DOTO DOTODS 68 22 6 POLM DOTCS ZC N ZZO6ZP55 CZ 61746C DOTO CZ 18 61 Z81- 85 C81- C5 OB69 18 651 DOTO DOTODS 68 22 6 POLM DOTCS ZC N ZZO6ZP55 CZ 61746C DOTO CZ 18 61 Z81- 85 C81- C5 OB69 18 651 DOTO DOTODS 68 22 6 POLM DOTCS ZC N ZZO6ZP55 CZ 61746C DOTO CZ 18 61 Z81- 85 C81- C5 OB69 18 651 DOTO DOTODS 68 22 6 POLM DOTCS ZC N ZZO6ZP55 CZ 61746C DOTO CZ 18 61 Z81- 85 C81- C5 OB69 18 651 DOTO DOTODS 68 22 6 POLM DOTCS ZC N ZZO6ZP55 CZ 61746C DOTO CZ 18 61 Z81- 85 C81- C5 OB69 18 651 DOTO DOTODS 68 22 6 POLM DOTCS ZC N ZZO6ZP55 CZ 61746C DOTO CZ 18 61 Z81- 85 C81- C5 OB65 18 651 DOTO DOTODS 68 22 6 POLM DOTCS ZC N ZZO6ZP55 CZ 61746C DOTO CZ 18 61 Z81- 85 C81- C5 OB65 18 651 DOTO DOTODS 68 22 6 POLM DOTCS ZC N ZZO6ZP55 CZ 61746C DOTO CZ 18 61 Z81- 85 C81- C5 OB65 18 651 DOTO DOTODS 68 22 6 POLM DOTCS ZC N ZZO6ZP55 CZ 61746C DOTO CZ 18 61 Z81- 85 C81- C5 OB65 18 651 DOTO DOTODS 68 22 6 POLM DOTCS ZC N ZZO6ZP55 CZ 61746C DOTO CZ 18 61 Z81- 85 C81- C5 OB65 18 651 DOTO DOTODS 68 22 6 P
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6985 6 101 W 00.CC 2 C N 52.085422 C2.81482 00.0 C2.78 87.81 82.81 62.81 82.81 00.0 00.00028 88.85 10.000.CC 2 C N 52.085422 C2.81482 00.0 C2.78 87.81 82.81 62.81 82.81 62.81 00.0 00.00038 88.85 10.000.CC 2 C N 52.085422 C2.81482 00.0 C2.78 87.81 82.81 82.81 C2.0862 18.85 100.0 00.00038 88.85 101 W 00.CC 2 C N 52.085422 C2.81482 00.0 C2.78 87.81 82.81 82.81 62.81 82.81 00.0 00.00038 88.85 101 W 00.CC 2 C N 52.085422 C2.81482 00.0 C2.78 87.81 82.81 82.81 62.80 18.85 100.0 00.00038 88.85 101 W 00.CC 2 C N 52.085422 C2.81482 00.0 C2.78 87.81 82.81 82.81 62.80 18.85 100.0 00.00038 88.85 101 W 00.CC 2 C N 52.085422 C2.81482 00.0 C2.78 87.81 82.81 82.81 62.80 18.85 100.0 00.00038 88.85 101 W 00.CC 2 C N 52.085422 C2.81482 00.0 C2.78 87.81 82.81 82.81 62.80 18.85 100.0 00.00038 88.85 101 W 00.CC 2 C N 52.085422 C2.81482 00.0 C2.78 87.81 82.81 82.81 62.80 18.85 100.0 00.00038 88.85 101 W 00.CC 2 C N 52.085422 C2.81482 00.0 C2.78 87.81 82.81 82.81 62.80 18.85 100.0 00.00038 88.85 101 W 00.CC 2 C N 52.085422 C2.81482 00.0 C2.78 87.81 82.81 82.81 62.80 18.85 100.0 00.00038 88.85 101 W 00.CC 2 C N 52.085422 C2.81482 00.0 C2.78 87.81 82.81 62.80 18.85 100.0 00.00038 88.85 101 W 00.CC 2 C N 52.085422 C2.81482 00.0 C2.78 87.81 82.81 62.80 18.85 100.0 00.00038 88.85 10.80 10.80 18.85 10.85 10.80 18.85 10.80 18.85 10.80 18.85 10.80 18.85 10.80 18.85 10.80 18.85 10.80 18.85 10.80 18.85 10.80 18.85 10.80 18.85 10.80 18.85 10.80 18.85 10.80 18.85 10.80 18.85 10.80 18.85 10.80 18.85 10.85 10.80 18.85 10.80 18.85 10.80 18.85 10.80 18.85 10.80 18.85 10.80 18.85 10.80 18.85 10.80 18.85 10.80 18.85 10.80 18.85 1
68 82 6 FOLM MODECS ZE N ZZO6ZP55 CZ61746E ODO CZ18 61/281 85/81 C5/089 18/651 ODO ODO095 68 82 6 FOLM MODECS ZE N ZZO6ZP55 CZ61746E ODO CZ18 61/281 85/81 C5/089 18/651 ODO OD0095 68 82 6 FOLM MODECS ZE N ZZO6ZP55 CZ61746E ODO CZ18 61/281 85/81 C5/089 18/651 ODO OD0095 68 82 6 FOLM MODECS ZE N ZZO6ZP55 CZ61746E ODO CZ18 61/281 85/81 C5/089 18/651 ODO OD0095 68 82 6 FOLM MODECS ZE N ZZO6ZP55 CZ61746E ODO CZ18 61/281 85/81 C5/089 18/651 ODO OD0095 68 82 6 FOLM MODECS ZE N ZZO6ZP55 CZ61746E ODO CZ18 61/281 85/81 C5/089 18/651 ODO OD0095 68 82 6 FOLM MODECS ZE N ZZO6ZP55 CZ61746E ODO CZ18 61/281 85/81 C5/089 18/651 ODO OD0095 68 82 6 FOLM MODECS ZE N ZZO6ZP55 CZ61746E ODO CZ18 61/281 85/81 C5/089 18/651 ODO OD0095 68 82 6 FOLM MODECS ZE N ZZO6ZP55 CZ61746E ODO CZ18 61/281 85/81 C5/089 18/651 ODO OD0095 68 82 6 FOLM MODECS ZE N ZZO6ZP55 CZ61746E ODO CZ18 61/281 85/81 C5/089 18/651 ODO OD0095 68 82 6 FOLM MODECS ZE N ZZO6ZP55 CZ61746E ODO CZ18 61/281 85/81 C5/089 18/651 ODO OD0095 68 82 6 FOLM MODECS ZE N ZZO6ZP55 CZ61746E ODO CZ18 61/281 85/81 C5/089 18/651 ODO OD0095 68 82 6 FOLM MODECS ZE N ZZO6ZP55 CZ61746E ODO CZ18 61/281 85/81 C5/089 18/651 ODO OD0095 68 82 6 FOLM MODECS ZE N ZZO6ZP55 CZ61746E ODO CZ18 61/281 85/81 C5/089 18/651 ODO OD0095 68 82 6 FOLM MODECS ZE N ZZO6ZP55 CZ61746E ODO CZ18 61/281 85/81 C5/089 18/651 ODO OD0095 68 82 6 FOLM MODECS ZE N ZZO6ZP55 CZ61746E ODO CZ18 61/281 85/81 C5/089 18/651 ODO OD0095 68 82 6 FOLM MODECS ZE N ZZO6ZP55 CZ61746E ODO CZ18 61/281 85/81 C5/089 18/651 ODO OD0095 68 82 6 FOLM MODECS ZE N ZZO6ZP55 CZ61746E ODO CZ18 61/281 85/81 C5/089 18/651 ODO OD0095
69 82 6 FOLM MODECS ZE N ZZOGZPSS CZG174EC 00'0 CZ/49 6/281- 95'01- C5'0609 18'651 00'0 00'0019  69 82 6 FOLM MODECS ZE N ZZOGZPSS CZG174EC 00'0 CZ/49 6/281- 95'01- C5'0609 18'651 00'0 00'0009  69 82 6 FOLM MODECS ZE N ZZOGZPSS CZG174EC 00'0 CZ/49 6/281- 95'01- C5'0609 18'651 00'0 00'0099  69 82 6 FOLM MODECS ZE N ZZOGZPSS CZG174EC 00'0 CZ/49 6/281- 95'01- C5'0609 18'651 00'0 00'0099  69 82 6 FOLM MODECS ZE N ZZOGZPSS CZG174EC 00'0 CZ/49 6/281- 95'01- C5'0609 18'651 00'0 00'0099  69 82 6 FOLM MODECS ZE N ZZOGZPSS CZG174EC 00'0 CZ/49 6/281- 95'01- C5'0609 18'651 00'0 00'0099  69 82 6 FOLM MODECS ZE N ZZOGZPSS CZG174EC 00'0 CZ/49 6/281- 95'01- C5'0609 18'651 00'0 00'0099  69 82 6 FOLM MODECS ZE N ZZOGZPSS CZG174EC 00'0 CZ/49 6/281- 95'01- C5'0609 18'651 00'0 00'0099  69 82 6 FOLM MODECS ZE N ZZOGZPSS CZG174EC 00'0 CZ/49 6/281- 95'01- C5'0609 18'651 00'0 00'0099  69 82 6 FOLM MODECS ZE N ZZOGZPSS CZG174EC 00'0 CZ/49 6/281- 95'01- C5'0609 18'651 00'0 00'0099  69 82 6 FOLM MODECS ZE N ZZOGZPSS CZG174EC 00'0 CZ/49 6/281- 95'01- C5'0609 18'651 00'0 00'0099  69 82 6 FOLM MODECS ZE N ZZOGZPSS CZG174EC 00'0 CZ/49 6/281- 95'01- C5'0609 18'651 00'0 00'0099  69 82 6 FOLM MODECS ZE N ZZOGZPSS CZG174EC 00'0 CZ/49 6/281- 95'01- C5'0609 18'651 00'0 00'0099  69 82 6 FOLM MODECS ZE N ZZOGZPSS CZG174EC 00'0 CZ/49 6/281- 95'01- C5'0609 18'651 00'0 00'0099  69 82 6 FOLM MODECS ZE N ZZOGZPSS CZG174EC 00'0 CZ/49 6/281- 95'01- C5'0609 18'651 00'0 00'0099
68 92 6 POLM 00 CCC 9 C N Z 2062P55 CZ 617465 00'0 CZ 78 67.281- 85.081- C2.0807 18:621 00.0 00.0001
69 85 6 HOLM DOTCS ZC N ZZ 08ZPS CZ 61746C 00.0 CZ 78 97.581- 82.081- 62.0828 18.621 00.0 00.00028  69 85 6 HOLM DOTCS ZC N ZZ 08ZPS CZ 61746C 00.0 CZ 78 97.581- 82.081- 62.0828 18.621 00.0 00.00028  69 85 6 HOLM DOTCS ZC N ZZ 08ZPS CZ 61746C 00.0 CZ 78 97.581- 82.081- 62.0828 18.621 00.0 00.00028  69 85 6 HOLM DOTCS ZC N ZZ 08ZPS CZ 61746C 00.0 CZ 78 97.581- 82.081- 62.0828 18.621 00.0 00.00028  69 85 6 HOLM DOTCS ZC N ZZ 08ZPS CZ 61746C 00.0 CZ 78 97.581- 82.081- 62.0828 18.621 00.0 00.00038  69 85 6 HOLM DOTCS ZC N ZZ 08ZPS CZ 61746C 00.0 CZ 78 97.581- 82.081- 62.0828 18.621 00.0 00.00038  69 85 6 HOLM DOTCS ZC N ZZ 08ZPS CZ 61746C 00.0 CZ 78 97.581- 82.081- 62.0828 18.621 00.0 00.00038  69 85 6 HOLM DOTCS ZC N ZZ 08ZPS CZ 61746C 00.0 CZ 78 97.581- 82.081- 62.0828 18.621 00.0 00.00038  69 85 6 HOLM DOTCS ZC N ZZ 08ZPS CZ 61746C 00.0 CZ 78 97.581- 82.081- 62.0828 18.621 00.0 00.00038  69 85 6 HOLM DOTCS ZC N ZZ 08ZPS CZ 61746C 00.0 CZ 78 97.581- 82.081- 62.0828 18.621 00.0 00.00038  69 85 6 HOLM DOTCS ZC N ZZ 08ZPS CZ 61746C 00.0 CZ 78 97.581- 82.081- 62.0828 18.621 00.0 00.00038  69 85 6 HOLM DOTCS ZC N ZZ 08ZPS CZ 61746C 00.0 CZ 78 97.581- 82.081- 62.0828 18.621 00.0 00.00038  69 85 6 HOLM DOTCS ZC N ZZ 08ZPS CZ 61746C 00.0 CZ 78 97.581- 82.081- 62.0828 18.621 00.0 00.00038  69 85 6 HOLM DOTCS ZC N ZZ 08ZPS CZ 61746C 00.0 CZ 78 97.581- 82.081- 62.0828 18.621 00.0 00.00038  69 85 6 HOLM DOTCS ZC N ZZ 08ZPS CZ 61746C 00.0 CZ 78 97.581- 82.081- 62.0828 18.621 00.0 00.00038  69 85 6 HOLM DOTCS ZC N ZZ 08ZPS CZ 61746C 00.0 CZ 78 97.581- 82.081- 62.0828 18.621 00.0 00.00038  69 85 6 HOLM DOTCS ZC N ZZ 08ZPS CZ 61746C 00.0 CZ 78 97.581- 82.081- 62.0828 18.621 00.0 00.00038  69 85 6 HOLM DOTCS ZC N ZZ 08ZPS CZ 61746C 00.0 CZ 78 97.581- 82.081- 82.081- 62.0828 18.621 00.0 00.00038  69 85 6 HOLM DOTCS ZC N ZZ 08ZPS CZ 61746C 00.0 CZ 18.6281- 82.081- 62.0828 18.621 00.00038  69 85 6 HOLM DOTCS ZC N ZZ 08ZPS CZ 61746C 00.00038  69 85 6 HOLM DOTCS ZC N ZZ 08ZPS CZ 61746C 00.00038  69 85 6 HOLM DOTCS ZC N ZZ 08ZPS CZ 617
68 85 6 FOLM MODICES ZC N ZZ 08ZP55 CZ 61746C 00'0 CZ 29 62 281 95 C81 C5 0669 18 651 00'0 00 000 00 00 00 00 00 00 00 00 00
68 55 6 401 W 00.CC 2 CL N 55.09542222222 C5.214762 00.0 C5.76 97.581- 82.681- 62.0926 18.621 00.0 00.00028  68 85 6 401 W 00.CC 2 CL N 55.0954222222 C5.214762 00.0 C5.76 97.581- 82.681- 62.0926 18.621 00.0 00.00076  68 85 6 401 W 00.CC 2 CL N 55.0954222222 C5.214762 00.0 C5.76 97.581- 82.681- 62.0926 18.621 00.0 00.00076  68 85 6 401 W 00.CC 2 CL N 55.0954222222 C5.214762 00.0 C5.76 97.581- 82.681- 62.0926 18.621 00.0 00.00076  68 85 6 401 W 00.CC 2 CL N 55.0954222222 C5.214762 00.0 C5.76 97.581- 82.681- 62.0926 18.621 00.0 00.00076  68 85 6 401 W 00.CC 2 CL N 55.0954222222 C5.214762 00.0 C5.76 97.581- 82.681- 62.0926 18.621 00.0 00.00076  68 85 6 401 W 00.CC 2 CL N 55.0954222222 C5.214762 00.0 C5.76 97.581- 82.681- 62.0926 18.621 00.0 00.00076  68 85 6 401 W 00.CC 2 CL N 55.0954222222 C5.214762 00.0 C5.76 97.581- 82.681- 62.0926 18.621 00.0 00.00076  68 85 6 401 W 00.CC 2 CL N 55.0954222222 C5.214762 00.0 C5.76 97.581- 82.681- 62.0926 18.621 00.0 00.00076  68 85 6 401 W 00.CC 2 CL N 55.0954222222 C5.214762 00.0 C5.76 97.581- 82.681- 62.0926 18.621 00.0 00.00076  68 85 6 401 W 00.CC 2 CL N 55.0954222222 C5.214762 00.0 C5.76 97.581- 82.681- 62.0926 18.621 00.0 00.00076  68 85 6 401 W 00.CC 2 CL N 55.0954222222222222222222222222222222222222
6985 6 401 W 00.CC 2 C W 55.095222 C5.014700 00.0 C5.70 07.501 05.001 05.00020 00.000000000000000000000000000
69 85 6 101 W 00, CC 5 C W SCO85422 CC 2811/28 00,0 CC 78 97.581-8 82.681 82.681 00,0 00.0017 82.89 83.89 01 W 00, CC 5 C W SCO8542 CC 2811/28 00,0 CC 78 97.581-82.89 02.89 18.281 00,0 00.0017 82.89 02.89 03.89
88.55 +01 W 00.CC 2 CV SC.095422 CC.914762 00.0 CS.78 97.581- 82.681- C2.0968 18.921 00.0 00.0088  98.85 +01 W 00.CC 3 CV SC.095422 CC.914762 00.0 CS.78 97.581- 82.681- C2.0968 18.921 00.0 00.0007  98.85 +01 W 00.CC 3 CV SC.095422 CC.914762 00.0 CS.78 97.581- 82.681- C2.0968 18.921 00.0 00.0007
69859 HOLM DOUCE SC N SCO65452 CC.814762 DO.0 CS.78 67.581- 82.681- C2.0807 18.621 DO.0 DO.0017 68.589 GS 69.00 DO.0017 67.581- GS.089 GS.89 GS.
88.85 & NOT WOOLEE & SE W SS.085A22 6S.01NTGE 00.0 6S.78 87.581- 88.681- 68.080T 18.821 00.0 00.001T
88.82 & MOT W 00,CC & SC N SS,095M22 CS,91M79C 00,0 CS,78 97,S81- 82,C81- C2,0217 18,921 00,0 00,0057 88.82 POT W 00,CC & SC N SS,095M222 CS,91M79C 00,0 CS,78 97,S81- 82,C81- C2,0257 18,921 00,0 00,0057

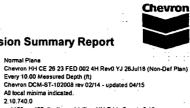
05.05 8 401 W 45.4% 8 30.20		17.126404 07.120204	00.0 00.0	26.72-	36.0667 36.0647	£8.0££7 \$8.0£#7	10222.00	78.62£ 78.62£	00'06 00'06	00.00211 00.00371	
32 6 46,36 W 104 9 30,20 32 6 45,37 W 104 9 30,20		ST.167404 17.168404	00.0 00.0	ES.72- 84.78-	35.0517 35.0557	1130,54 52,0557	10222.00	78.62£ 78.62£	00.08 00.08	00.00\$Tf	
32 6 44.38 W 104 9 30.20	N 10.881188	404631.73	00.0	66 95	86.0607	A2.0507	10222.00	78.62£	00.08	00.00571 00.00571	
32 6 42,40 W 104 9 30,20		27.12840A 47.12240A	00.0	£8.88- 87.88-	85.0588 85.0568	22.0588 22.0568	10222,00	78.62£ 78.62£	00.08 00.08	00.000\$1 00.001\$1	
35 641,41 W 104 930,19		404231,76	00.0	80.82- 0£.82-	86.0688 86.0678	95,0578	10222.00	78.62£	60.06	00.00631	
92 6 39.43 W 104 9 30.19	N 71.781422	87.151404	00.0	£8.22-	95.0559	72.0C28 82.0C88	10222.00	78.62E 78.62E	80.00 80.00	00.007a1 00.008a1	
91,05 9 101 W 24,35 SE 91,05 9 101 W 44,85 9 SE		08.15850h 87.15040h	00.0	76.88- 08.88-	96.06£8 6430.36	62.0££8 72.0£ <b>4</b> 8	10222.00	78.62£ 78.62£	00.08 00.08	00,00881	
32 6 36.46 W 104 9 30.19	N 18,181422	18.15850>	00.0	£1.38-	7£.0£S8	62.0558	10222.00	<b>78.625</b>	00'08	00,002-01	
81,05 8 AOI W 9A,45 8 SE	N \$5.831\$28	EB.1E8E0≯ SB.1E7E0≯	00.0 00.0	79.A2-	76.060a 76.061a	65.0508 82.0518	10222.00	78.62£ 78.62£	00.08 00.08	00,00 <b>5</b> 81	
32 6 33,50 W 104 9 30,19		AB.15A50A 58.15250A	00.0 00.0	99'9S-	75.058 <del>2</del> 75.0562	08.0£88 68.0£68	10222.00	78.62E 78.62E	00,0e 00,0e	00.000a1 00.001a1	
92 6 1.05 9 401 W S2.15 8 SE	N £0.631 AZZ	28.166601	00.0	76.£2-	76.0572	09.0578	10222.00	18.625	00.08	00.00621	
81,05 9 401 W 48.95 8 SE 81,05 9 401 W 58.05 8 SE	N 02.631322	78.16160> 88.165604	00.0 00.0	12.52- 17.52-	76.0622 76.0682	19.0533	10222.00	78.62£ 78.62£	00.08 00.08	00,00721 00,00821	
32 6 29,25 W 104 9 30,18 32 6 29,25 W 104 9 30,18		88.15050h 67.20150h	00.1 00.1	08.SE- 89.EE-	76.06AZ 85.40ZZ	18.0548	10222.00	E1.62E 78.62E	00.08 00.08	00,00321 19,57821	OT at bloH
32 6 28.20 W 104 9 30.16	N 28.071422	402931.91	00.0 00.0	21.58-	2395,00	\$395.24	10222.00	77.82£	00.08	1 2264.62	SJO "I nwī
32 6 26.57 W 104 9 30.13	N BE.ATTARR	402831.95	00.0	£8,84- 77,02-	5230,41	5230.62 5330.62	10222.00	77.82£ 77.82£	00.08 00.08	15400,00	
32 6 25.58 W 104 9 30.11		402632.01	00.0	86,66-	5030.46 5130.44	£8,0£08 £8,0£18	10222.00	TT.BZE TT.BZE	00.08	15200.00	
32 6 22.60 W 104 9 30.06		40,564504 40,565504	00.0	12.21-	4930.48	4930.64	10222.00	77.82£	00'08	15100.00	
32 6 21.62 W 104 9 30.02	N 70.281422	402332.10	00.0	£6.7£-	62.057A 18.058A	48,0CT+ 48,0C8+	10222,00	TT.82E TT.82E	00.08 00.08	1,5000,00	
76.926 W 104 9 29.99 SE		402132.17 402232.14	00.0	23.CC- 87.2C-	78.068 <b>&gt;</b> 88.068 <b>&gt;</b>	29,062 <b>&gt;</b>	10222,00	77.82C 77.82C	00.08 00.08	00.007+1 00.008+1	
32 6 18.65 W 104 9 29.95		402032°20	00.0 00.0	12.15-	4430.60	4430.66	10222.00	11.82£	00.08	00.009≯1	
32 6 16.68 W 104 9 29.90	N 77.281422	401832.26	00.0	25.75- 76.95-	4330.62 4330.64	78.0CS≯ 88.0CC≯	10222.00	77.82C 77.82C	00.08 00.08	14200,00	
88.65 6 401 W 07.41 8 26.88		401632.33	00.0 00.0	-22°09	69.0£0≯ 79.0£1≯	89.0E0> 79.0E1>	10222.00	77.82£ 77.82£	00.08 00.08	00.005+1 14300.00	
18.95 9 M 1 V 57.51 8 SE	N 81.505.18 N	401532.36	00.0	18.02-	17.0565	89.0565	10222.00	17.82E	00'06	14100.00	
67.62 6 MOI W ET.11 8 SE	N 14.305428	401332,42	00.0	£2.81- 78.81-	87.057£ 67.058£	63.0£7£ 63.0£8£	10222.00	77.82E 77.82E	00.0e 00.0e	13800.00	
67.62 8 NOI W 87.8 8 SE		401132.49	00.0 00.0	22.21- 12.39	08.0£2£ 87.0£8£	07.052£ 63.058£	10222.00	77.82£	00'06 00'06	13800.00	
27.62 8 N 104 9 29.72	N 68.212.83	401032.52	00.0	11.01-	2430.83	07.0EAE	10222.00	77.82£	00'06	00.003£! 00.007£!	
78,65 8 401 W 87.8 8 25.		400832.58	00.0 00.0	C8.2-	78.0ESE 28.0EEE	17.0656	10222,00 10222,00	77.82£ 77.82£	00.08 00.08	13500,00	
32 6 4.80 W 104 9 29.65 32 6 4.79 W 104 9 29.65		400632,65	00.0	69'E-	3130.89	27.050E ST.0E1E	10222.00	77.82£	90.08	13300.00	
32 6 3.81 W 104 9 29.60	N 65.ESSAS	400532.68	00.0	65.0	2830.84 2830.84	2930.73	10222,00 10222,00	77.82£ 77.82£	00'08 00'08	00.001£1 00.005£1	
32 6 1.83 W 104 9 29.56		17,SEE004 17,SE4004	00.0 00.0	78.↑ £7.5	2830.99 96.088	<b>♪</b> 7.0£7 <b>S</b> £7.0£8S	10222.00	77.82E 77.82E	00'06 00'06	13000.00 13000.00	
32 6 0.85 W 104 9 29.53 32 6 0.85 W 104 9 29.53	N 10.05S#22	TT.SES00>	00.0	10.7	10,1685	\$4.0582	10222.00	77.82E	90.00	12800.00	
32 5 58.87 W 104 9 29.49		48.SE0004 18.SE1004	00.0 00.0	82.11 81.8	2431.03	27.084S 47.088S	10222,00 10222,00	77.82£ 77.82£	00.08 00,08	00.0051 00.00721	
32 5 55 88 W 104 8 29 47		78,SE898E	00.0 00.0	78.81 EA.E1	2331.08 2331.08	87.025Z 23.025	00.SS201	TT.82E TT.82E	00'06 00'06	12400.00	
32 555,90 W 104 9 29.42	N 07.055A22	399732.93	00.0	17.71	21.1212	2130.76	10222.00	77.8 <b>2</b> £	00'06	12300.00	
72 554,91 W 104 9 29,40		389533.00 399532.96	00.0 00.0	99.12 28.91	71.1681 21.160S	77,0581 77,060S	10222,00	77.82£ 77.82£	00'06 00'06	12200.00	
32 5 5 5 9 W 104 9 29 35		30,666986 60,664986	00.0 00.0	75.82 24.13	SS.1871 91.1681	87.0571 87.0581	10222,00 10222,00	77.82E 77.82E	00'06 00'06	11900.00	
32 5 50.95 W 104 9 29.31	N 01.185188	399233.09	00.0	28.40	1631.24	1630.78	10222.00	77.82£	90.00	00.00811	
32,65 90 W 104 929,26 32,65 401 W 36,64 3 SE		399033.16	00.0 00.0	89.SE 30.54	1231'58 1431'58	67.0E\$1 67.0E81	00.52201 00.52201	77.82£ 77.82£	00'06 00'06	00.00311	
12.92 9 M 104 9 29.24 5 20.04 9 29.24		\$2.668866 61.666866	00.0	36.96 34.82	16,1651	1230.80	10222.00	77.82E	90.00	00.00211	
32 5 46.01 W 104 9 29.19	254262,10 N	298733.25	00.0	39,10	35.1511	18.0511	10222,00	77.82E 77.82E	00'08 00'08	00.00511	
32 5 45.02 W 104 9 29.17 71,92 9 401 W 50.84 5 55	N 85.485428 N 95.485428	398533.28 398633.28	00.0 00.0	85.64 41.24	931,40 1031,38	58.056 18.0501	10222,00	77.82C 77.82C	00.08 00.08	00.00111	
32 5 42.05 W 104 9 29.12	254268.52 N	398433.35	00.0	45.52	S\$.168	\$8.058	10222.00	TT.82£	00.08	11000.00	
32 5 41.06 W 104 9 29.08	N 08.STS+22	398233.41	00.0 00.0	08.64 88.74	72,168 22,167	£8.0£8 £8.0£7	10222.00 10222.00	TT.82E TT.82E	00.08	00.00801 00.00201	
50,65 6 401 W 70,04 8 29,05		74.660886 44.661886	00.0 00.0	80.42 51.94	12,154	48,0E4 53,053	10222.00 10222.00	TT.82E TT.82E	00'06 00'06	00.00301 00.00701	
32 5 38.09 W 104 9 29.02 5 5 38.09 W 104 9 29.02	N 18.115488	397892.00	00.01	76.42	¥0.0€£	26.686	10222.00	77.82£	00.08	12,82201	Inioq gulbrisJ
86.82 6 MOT W S1.75 8 SE	N 16.185A28	82,8E879E 18,EE979E	00.01 00.01	S8.82 S8.32	72.66S 40.166	232.86	10,00201	. 77.82£ 77.82£	21.47 21.48	00.00 <b>&gt;</b> 01 00.00201	
32 5 36.20 W 104 9 28.96 32 5 35.35 W 104 9 28.96		A2.823766 25.5ATTEE	00.01 00.01	81.58 50.32	92'0\$l	08.62 68.961	89.61101 88.61101	77.82£	S1.48	10200.00	
32 5 34.60 W 104 9 28.93	N 97.885A28	10.18276£	00.01	77.£9	-S0.99	47.15.	\$1,84001	77.82£	51.44	10100.00	
32 5 33.50 W 104 9 28.90		25.634765 86.712765	00.01 00.01	81.88 S1.28	-132.68 -84.03	PA 251-	**.6888 78,0788	77.82E 77.82E	24.15 34.15	00,00001 00,00001	
92 6 33.02 W 104 9 28.89		ET.0S\$TEE 03.8E\$TEE	00.01 00.01	05.78 88,88	62,181- 15,281-	80.581- 05.881-	65,0638 60,6878	11.82E 11.82E	51'91 51'9	00.0076 00.0088	
32 5 33.00 W 104 9 28.89	SS4290.22 N	\$5.61\$76£	00.0	£S.78	67.S81-	82.681-	10.6138	18.621	00.0	12.8296	Build 10° DLS
32 6 33.00 W 104 9 28.89		ES.81478E ES.81478E	00.0 00.0	£2.78 £2.78	87.581- 87.581-	88,681- 88,681-	8490.53 8590.53	18.621 18.621	00.0 00.0	00.002e	
68.82 8 401 W 00.6E 8 SE		£S.81≯76£	00.0	£2.78	87.281-	82,581-	8390.53	18,621	00.0	9400.00	Aureno
32 533.00 W 104 9 28 89		397419.23	00.0	62.78	97.581-	83.581-	9300.00	18.631	00 0	2¢'60£6	Intermediate Casing
98.85 8 MOT W 00.55 5 SE		ES.81478E ES.81478E	00.0 00.0	£2.78 £2.78	67.581- 67.581-	82.E81- 82.E81-	6180.53	18.621 18.621	00.0 00.0	00.002e	
32 5 33.00 W 104 9 28.89	N SS.09SA22	\$5.619.76£	00.0	62.73	87.S81-	82.681-	6090.53	18.621	00.0	00.0016	
92 5 33,00 W 104 9 28,89	SS4290.22 N	597419.23 597419.23	00.0 00.0	62.78 62.78	87.581- 87.581-	62,581- 62,581-	£2,0888 £2,0888	18.821 18.821	00.0 00.0	00,0068 00,0008	
32 5 33.00 W 104 9 28.89		62,614766 62,614766	00.0 00.0	£S.78 £S.78	67.581- 87.581-	82.C81- 82.C81-	£2,0638 £2,0878	18.621 18.621	00.0 00.0	00,0078 00,0088	
32 5 33.00 W 104 9 28.89	SS4290.22 N	£5.61\$76£	00.0	£5.78	67.S81-	62.581-	£5'0658	18.821	00.0	00.0038	
32 5 33.00 W 104 9 28.89		597419.23 597419.23	00.0 00.0	ES.78 ES.78	67.581- 67.581-	82.681- 82.681-	55.0958 53.0948	18.621 18.621	00.0 00.0	00.00 <b>4</b> 8 00.0028	
32 5 33.00 W 104 9 28.89	N SS.09S.	65.814788 65.814788	00.0	£5.78 £5.78	67,581-	82.581-	8290.53	18.621	0.00	8300.00	
32 5 33.00 W 104 9 28.89	SS4290.22 N	£5.61476£	00.0	£5.78	67,581- 67,581-	82.C81- 82.C81-	£2.0908 £2.0918	18.621	00.0 00.0	00.0018 00.0028	
68.85 @ MOT W 00.55 & SC		597419.23 597419.23	00.0 00.0	£5.78 £5.78	67.581- 67.581-	82,581- 82,581-	£8.0687 £8.0687	18.921 18.921	00.0 00.0	00,0087 00,0008	
32 \$33.00 W 104 9 28.89	N 22'06Z1SS	597419.23	00.0	65.78	67.SB1-	82.681-	£8.0877	18.621	00.0	00.0087	
98.82 9 401 W 00.65 2 SE 98.82 9 401 W 00.65 2 SE	N ZZ'06Z1SS	ES.81478E ES.81478E	00.0 00.0	£5.78 £5.78	67.581- 67.581-	82.681- 82.681-	68.088T 68.088T	18.621 18.621	00.0 00.0	00.00 <del>0</del> 7 00.0077	
92 5 33.00 W 104 9 28.89		397419.23 397419.23	00.0 00.0	£5.78 £5.78	67.581- 67.581-	82.681- 82.681-	58.0957 58.0957	18.621 18.621	00.0 00.0	00,004T 00,008T	
(N/2) (E/M)	(SUA)	(รถม)	(HOOT\*)	(u)	(tf)	(f)	(u)	-(,)	- G	(1)	Comments
ebutignod obutits.	gniize3	grifthoM	DF8	EM	SN	AZEC	dvī	bh0 misA	lani	GM	_

Original Borehole / Chevron HH	8001Ma_MWD+HDGM		000.0€	000.0£	000.001\1	186,51805	000.0£	1 .		
CE S6 23 FED 002 4H Revor HH	O⊒JA B001Ma_MWD+HDGM-Depth		000.0€	30.000	000.001\1	30.000	000.0	ı		
Borahole / Survey	Survey Tool Type	Expocted Max inclination (pob)	tatomsiO gniz (rd)	Hote Size Ca (대)	pm 7 UO3 (개)	oT GM (fi)	mon 3 GM (#)	Paq		Description
						атдія 0000.£ өзлэр	B7.071% Conf	75 Hev 3 3-[	ISCA	Survey Errot Model: Survey Program:
								Def Plan	-uoN	Survey Type:
										4H - PBHL
22.02 8 401 W 84.81 T SE N	00.821422 00.770804	00.0	10.23-	16.27101	76.27 <b>4</b> 01	10222.00	78.62£	00.08	82.2¥80S	SE 33 EED 005 CHEALON HH CE
55.05 6 HOT WY E0.81 7 SE M	408031,42 54,150804	00.0	06'79-	10430:32	10430.39	10222.00	78.62£	00'06	\$00,0030	
25.05 6 401 W 40.41 T SE N		00.0	<b>∠9</b> ′ <b>≯9</b> ⁺	10330.35	10330.39	10222.00	78.62£	90.00	20500.00	
SS.02 9 101 W 20.01 T SC N		00.0	£4.43-	10230.35	10230.40	10222.00	18.626	90.08	20400,00	
22.00 8 101 W 30.21 7 SE N		00.0	02. <del>19</del> -	20,00101	03.06101	10222.00	78.62E	. 00.08	20300'00	
52.05 8 MIN TO.NIT SE N		00.0	76.Eð-	25.05001	10030.41	10222.00	78.62£	00.08	20200.00	
SS.05 8 NOT W 80.51 T SE N		00.0	17.63-	95.0598	19.0568	10222.00	78.62£	00.08	20100.00	
SS.05 8 NOT W 80.S1 7 SE N		00.0	02.53-	9830.36	14,0588	10222.00	78.62£	00.06	20000,00	
SZ.06 8 JOI W OLITY SE N		00.0	72.£ <del>3.</del>	9730.36	S4.0578	10222.00	78.62£	90.00	18900:00	
SS.05 8 101 W 11.01 7 SE N		00.0	<b>+0.63-</b>	96.0538	9630.42	10222.00	78.62£	90,08	19800.00	
SS.05 8 101 W S1.8 7 SE N		00.0	18,58-	9530.38	6530.43	10222.00	<b>78.62£</b>	90.00	00.00781	
N 32 7 8.13 W 104 9 30.22		00.0	76.58-	9430,36	64.0548	10222.00	78.62E	00.08	19600,00	
12.05 9 77.14 W 104 9 30.21		00.0	-62.34	92'0226	9330.44	10222.00	78.62£	00.08	18200.00	
12.05 9 101 W 104 9 30.21		00.0	11,58	9230.36	9230,44	10222.00	78.62£	00.08	19400.00	
12.05 9 10 W 104 9 30.21		00.0	88,18	9130.36	9130.45	10222,00	78.62E	00.08	19300.00	
15.05 8 4.17 W 104 9 30.21		00.0	19'19-	<b>9030.36</b>	8030.45	10222.00	78.62£	00.08	19200.00	
15.05 8 101 W BI,6 7 SE M		00.0	11.13	85.0568	8930.46	10222.00	78.62£	00.08	19100,00	
N 32 7 2,19 W 104 9 30,21		00.0	81,13-	<b>85.0588</b>	8830.46	10222.00	78,62£	00.09	19000.00	•
12.05 W 104 9 30.21		00.0	S6 09-	<b>85.0578</b>	TA.0678	10222.00	78,62£	00.08	00.00681	
12.05 9 V 15.0 T 25. W		00.0	17.09-	<b>36,0638</b>	74,0688	10222.00	78.62£	00.06	00.00881	
12.05 9 101 W SS.85 B SS. N		00.0	84.08-	<b>96.0628</b>	74.0528	00.55501	78.62£	00.06	00,00781	
12.05 9 101 W 52.85 8 30.21		00.0	25.0a-	86,0648	84.0548	10222.00	78.62£	00.08	00.00381	
12.05 9 10 1 W 52.75 B W 104 9 20.21		00.0	20.03-	3E.0EE8	8330.48	10222.00	359.81	00'06	00.00281	
12 02 6 101 A 102 8 20 N		00.0	87,62-	35.0558	65.0558	10222.00	78.62£	00.06	00.00181	
N 32 6 55.27 W 104 9 30.20		00.0	99'69-	36,0618	6130.49	10222.00	359.81	00.08	00.00£81	
N 35 6 54.28 W 104 9 30.20		00.0	60.62- S6.62-	35.0508	05.0508	10222.00	18.62£	00.08	00,00281	
0 32 6 52.30 W 104 9 30.20		00.0	28.82- 20.62-	36.0687 36.0697	7930.50	10222.00	78.62£	00'06	00.00181	
02.0E8 401 W 05.528 SE N		00.0	28.82-	36,0677 36,0685	18,0587	10222.00	18.625		00.00081	
		00.0	96.82- 59.82-		12,0577		78.62£	00.08	00.00211	
N 32 6 49.33 W 104 9 30.20		00.0	81.82-	86,0687 86,0687	SS.0587 SS.0587	10222.00	78.62£ 78.62£	00'06 00'06	00,00111	
	(EUM) (EUM)	(11001/2)	(1)	(H)	(1)	(11)	(*)	(3)	(1)	<del></del>
	gnütse grüffnoli	STO	EM	SN	ASEC	ΔVT (Φ)	bh0 misA	laci ,•,	aw.	Comments
abunita   abunita	it3 naidbold	3 IU	1713	an	7391	UAL	the mira	12-01	un	



### Schlumberger

## Chevron HH CE 26 23 FED 002 4H Rev0 YJ 26Jul18 Anti-Collision Summary Report



us1153app452.dir.slb.com\drilling-NM Eddy County 2.10

Trajectory Error Model:

Analysis Date-24hr Time: August 03, 2018 - 14:29
Client: Chevron
Field: NM Eddy County (NAD 27)
Structure: Chevron HH CE 28 23 FED 002 4H
Veil: HH CE 28 23 FED 002 4H
Weil: HH CE 26 23 FED 002 4H
Original Surebole: Original Surebole
Scan MD Range: 0 000 - 20845 58R

ISCWSA3 3-D 97.071% Confidence 3.0000 sigma

Offset Selection Criteria Wellhead distance scan: Selection filters:

Restricted within 61656.08 ft
Definitive Surveys - Definitive Plans - Definitive surveys exclude definitive plans
- All Non-Def Surveys when no Def-Survey is set in a borehole - All Non-Def Plans when no Def-Plan is set in a borehole

Offset Trajectories Summary

Analysis Method: Reference Trajectory: Depth Interval: Rule Set; Min Pts:

Version / Patch: Database \ Project:

Offset Trajectory		Separation		Allow	Sep.	Controlling	Peternose	Trajectory		Risk Level		Alert	Status
Onact ((a)actory		MAS (ft)	E011 (8)	Dev. (ft)	_ Fact.	Rule	MD (ft)		Alert	Minor		Alen	Status
Results highlighted: Sep-Factor			COO III	DOV. (iii)	_ ract.	Kuie	mb (tt)	I VD (ii)	Alen	Minor I	Major		L
Manage Manage and Code and													
30-015-37916 Chevron													
Cooksey 28 Federal Com #1H									*				
(Offset) - A Blind+MWD 0- 11,025' (Def Survey)													
11,023 (Der Survey)	5658.39	~~~~	4989 04	4000.04									Fail Major
	5693.45	669.35 1909.57	3783 88	4989.04 3783.88	8.45 2.98	SF1.00 SF1.00	612.41	612.41				MinPt-CtCl	
	5813.61	3889.47	1924.13	1924.13	1.49	SF1.00	958 90 2234.33	958.37 2226 84				Enter Aleri	
	5833.48	4229 79	1603.68		1.38	SF1.00		2455.50		SF<1.50		Enter Minor	
	5828.58	4010 38	1816.21	1816 21	1.45	SF1.00	2464.24 2807,70	2450.50 2798.23				MinPte	
	5806.10	5806.94	-0.84	-0.84	1.00	SF1.00	4099.20	2796.23 4089.73			8F<1.00	MinPt-CtCl	
	5288.95	8500.72	-3211.77		0.62	SF1.00	6369.91	6360 44			8741.00	Enter Major MinPte	
	1106.04	8501,33	7395.20	-7395.29	0.02	\$F1.00	6346.08	6336 61				Man-ta Man-Pta	
	2848.64		-5852.24		0.13	SF1.00	6356.24	6346.77	SF>3 00	SF>1.50	SF>1.00	Ext Major	
	3834.27	619.34	3264.93		6.27	SF1.00	12620.92	10222.00		ar + 1.30	3P71.00	MinPt-CtCt	
	3884.50	619.83	3254.67		6.27	SF1 00	12664 42	10222.00				MnPts	
	3885.94	622.71	3263.23		6.24	SF1.00	12814 41	10222.00				MinPte	
	3887.06	62322	3263 84		6,24	SF1.00		10222.00				MinPt-O-SF	
	3119.94	6500.83	-5360 88	-5380 68	0.37	SF1.00	6349.84	6340.37	SF<300	SF<1.50	SF<1 00	Enter Major	
	3573.68	8500.78	4927,10	-4927.10	0.42	SF1.00	6359 05	6349 58				MinPte	
	4503.03	4503.99	0.96	0.96	1.00	SF1.00	10232.04	10131.48			SE>1 00	Ext Major	
	4090.86	2732.81	1358.05	1358.05	1.50	8F1.00	10365.21	10190.03		SF>1.50		Ext Minor	
	3933.77	1320.19	2613.57	2613.57	2.98	SF1.00	10458.91	10215.01	SF>3 00	)		Exit Alert	
	3888.97	565.52	3323.44	3323.44	6.88	SF1.00	10829.89	10222.00				MinPt-CtCt	
	3890.77	574 97	3315 80	3315 80	6.77	SF1.00	11254.80	10222.00				MinPt-O-SF	
	3890.30	574.99	3315.31	3315.31	6.77	SF1.00	11303.37	10222 00				MinPI-CtCt	
	3890.68	575.72	3315.15	2315.15	6.76	SF1.00	11354.80	10222 00				MinPts	
	3894 56	586 82	3307.73	3307.73	6.64	ŞF1.00	11824.70	10222.00				MinPt-O-SF	
	4566.30	8500.73	-3934,43	-3934 43	0.54	SF1,00	6361.90	6362.43	SF<3 00	SF<1.50	SF<1.00	Enter Major	
	4563.18	8500.73	-3637.67	-3637.57	0.54	\$F1.00	6361.90	6352.43				MinPts	
	4523.22	8500.73	-3977.51	3977.61	0.63	SE1.00	.6361.97	6352.50				MinPts	
	5612.94	634675	-733£1	711.81	0.89	SF1.00	10067.72	10024.34				MonPts	
	5473.20	6199.17	·72597	-725.97	0.88	SF1.00	10082.53	10035.40				MinPt-O-SF	
	5041.96	5542.34	-600.37	60D.37	0.89	SF1 00	10135.23	10072.63	8F>3 00	SF>1.50	SF>1.00	Ext Major	
	3820.23	579 tO	3301.13		6.70	SF1.00	13563 82	10222.00				MinPt-CtCt	
	357 F.BD	528 92	3348.88	3346 88	7.33	8F1.00	14505.22	10222.00				MinPt-CtCt	
	3874.36	526.97	3347,40		7.35	SF1.00	14753.36	10222.00				MinPt-O-SF	
	3873 68	526,57	1347.11		7.36	SF1.00	14803.35	10222.00				MinPts	
	3573.17	525.58	3347.59	3347.59	7,37	SF1.00	14964.42	10222.00				MinPt-CtCt	
	\$358.68	558 34	3310.34	3310 34	6.93	SF1.00	15252.81	10222.00				MinPt-CtCt	
	3879.89	591.49 623.19	3223.40	3251.40	6.56	SF1.00	15419 26	10222.00				MinPte	
	3955.12		3331.94	3331 94	6.25	SF1.00	15571.44	10222.00				MinPt-O-SF	
	4960.78	8500.72 8500.72	-3539.93 -3618.02	-3539.93 -3618.02	0.58	SF1.00	6384.18	6354 69	SF<3.00	SF<1 50	SF<1.00	Enter Major	
	6882.70	630 to 1	-3618.02 -1.27	3618.02 -1.27	1.00	SF1.00 SF1.00	6364.49 10008.77	6355.02				MunPts	
	7640.97	5094,87	2548.11	2546.11	1.50	\$F1,00 \$F1,00	10008.77	9977.89 10035.96		SF>1.50	SF>1,00	Exit Major	
*	8802.14	2936.00	5866.13	5866.13	300	SF1.00	10162.72	10030.96	SF>3.00			Exit Minor	
	10145.80	100.96		10844.84	100,43	SF1.00	15819 68	10222.00				Ext Alert MinPts	
	10155.80	100.94	10054 R5		100.61	SF1.00	15819 68	10222.00					*
	_6580.65	6997.54	-406.69	-406.69	0.94	SF1.00	9997.78	9968.82	SF<3.00	SF<1.50	SF<1 00	το	
	6333.80	0000 an F	473.31	475.31	0.92	SF1.00	10006.94	9976.39	5F-Q-00	3641.30	5F<1 00	Enter Major MinPts	
			4.44	_ 4,25,	0.52	SP1.00		83/0.33				MINHS	
30-015-01147 Pre-Organd Well							• •					•	
#001 Blind 0ft to 10266ft - P													
(Def Survey)													Fait Major
	1747.63	582.80	1154 84	1164.84	3.00	5F1.00	469.00	469 00	SF<3.00			Enter Alert	
	1742.43	1175 91	566.52	566 52	1,48	SF1.00	936 26	935 83		SF<1.50		Enter Minor	
	1725.66	1739-0	-1374	-1374	0.99	SF1.00	1328.84	1324.32			\$F<1.00	Enter Major	
	1629.65	14214 <i>57</i> 14957.78	-12543.81 -13778.13	-125(3.8) -137/8 (3	0.12	SF1.00	9658.47 10084.39	9649 00 10036 77				MinPt-CtCt	
	1699.61		-13275.58		0.11	SF1.00 . SF1.00	10125.29	10035.77				MmPt-O-SF	
	1005.01		*******	-14144	u.11	. 82130	1010.0	10085.87				MinPts	
30-015-27790 POGO 23 State	-												
#1 (Offset) - P Blind 0-5,100*											i.		
(Def Survey)													Fail Major
	10454.77	657.05	9807.72	9807,72	15.93	SF1.00	590 30	590 30		7 7 7		MinPt-CtCl	: ::
	10589 03	3533 38	7055.65	7055.65	3 00	SF1.00	1441.69	1438 55	SF<3 00			Enter Alert	
	10695.17	5040.37	554.E	555L00	212	SF1 00	2457,84	2459 08				MinPts	
	10658.71	7116.55	3542.15	3542.18	1.50	SF 1.00	4949.77	4940 30		. SF<1.50		Enter Minor	
	10658.71	8987.58	*EPL13	167L13	1.13	\$F1.00	6209.77	6200.30				ManPts	
	11416 23	7627.33	3788.91	3768.91	1.50	SF1.00	9879 88	9864.94		SF>1 50		Ext Minor	
	12423 95	4148 45	8275 50	8275 50	2.99	SF1 00	9983 01	9956 47	SF>3.00			Ext Aleri	
	10455 92	175 17	10280.75	10280.75	59.69	SF1 00	20289.75	10222.00				ΤD	
	6733 40	2247 97	4485 43	4485 43	3 00	SF1.00	20289 75	10222.00	SF<3 00			Enter Alen	
	5515.12	3693.13	1821,99	1821 99	1.49	\$F1.00	20289.75	10222 00		SF<1.50		Enter Minor	
	4634.77	4947.25	-12.68	12.43	1.00	\$F1.00	20299.75	10222.00			SF<1 00	Enter Major	
	4001.21	<b>636</b>	-112.73	412.23	0.98	SF1.00	20299.75	10222.00			+	MmPts	
*													
30-015-26924 Chi Operating													
Wolverine ST #001 Blind Oil Oft													*
to 5860tt - P (Def Survey)													Warning Minor
· · · · · ·	10177.69	671.90	9506 00	9506 00	15 15	SF1 00	597 00	597 00				MinPuCtCt	

MinPt-CtCt

Offset Trajectory		Separation		Allow	Sep.	Controlling	Reference	Trajectory		Risk Level		Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major	<u> </u>	
	10288.71	3433.79	6854 92	6854 92	300	6F1 00	1514 18	1510.63	SF<3.00			Enter Alert	
	10377.12	4838.63	5538.49	· 6538.49	2.14	SF1.00	2468.91	2458.15				MinPts	
	10351.05	6908.68	344239	3442.39	1.50	SF1.00	4806.47	4797.00		SF<1.50		Enter Minor	
	10351.05	8631.19	1719.85	1719.68	1.20	SF1.00	5968.47	5957.00				MinPts	
	11165.46	7448.83	3718.63	3718.63	1.50	SF1.00	9886.73	9871.27	**	SF>1.50		Exit Minor	
	10215.61	4069.43 174.24	8110.28 10041.37	8110.28 10041.37	2.99	SF1.00	. 9987.18	9959.98	SF>3.00			Exit Alert	
	5417.84	1808 29	3609.55	3609 55	58.63	SF1.00	20261.86	10222.00				то	
	4475.85	2625.42	1850.42	1850.42	3.00 1.70	8F1.00 SF1.00	20261.86 20261.86	10222.00	SF<1.00	•		Enter Alert	
	41,000	<i>a</i> 2.4	1030.42	1030.42	1.70	SF1.00	21251.86	10222.00				MinPts	
Chevron HH CE 26 23 FED 00										• •	and the second		
3H Rev0 YJ 26Jul18 (Non-Def													
(Plan)													Warning Alert
	820.27	274 80	245 46	245 45	1.89	SF 1.00	20641.79	10222.00	SF<3.00			Enter Alen	
	520.27	274.89	245 37	245.37	1.89	SF1.00	20645.58	10222.00	SF>3 00			Ext Alert	
	25.02	2.50	22.52	22.52	10.01	8F1.00	000	0.00	CI-CI<3000			Enter Alert	
	25.02	2.50	22.52	22.52	10 01	SF1.00	30.00	30.00				WRP	
	25.02	8.25	18.77	16.77	3.03	SF1.00	600.00	600.00				MnPt-CIC	
	25.17	8.56	16,60	16.60	2.94	6F1.00	629.94	629 94				MinPte	
	26.33	9.18	17.15	17,15	2.87	5F1.00	689.80	639 79				MinPt-O-SF	
	98 00	16.11	81.89	81.89	6.08	8F1.00	1354.11	1351,44	C1-C1>30 00			Exit Alert	
	422.49	101 24	321.25	321.25	4.17	SF1.00	9413 67	9404.20				MinPts	
	424.88	102.28	322 59	322.59	4.15	SF1.00	9511.63	9502.16				MinPt-O-SF	
	520.10	163 88	356.22	356.22	3,17	8F1.00	15569.80	10222.00				MinPt-CtCt	
	520.23	173.60	348 63	346 63	3 00	SF1.00	16031.79	10222.00	5F<3.00			Enter Alert	
	520.26	274.58	245.69	245.69	1.89	SF1.00	20631.79	10222.00				MinPts	
	, .												
Chevron HH CE 26 23 FED 002 2H Rev0 YJ 26Jul 8 (Non-Def	2												
Plan)													Warning Alert
* *	50 01	2.50	47.51	47.51	20.01	SF1.00	. 000	0.00	Q-Q-(30.00			Enter Alert	Manual Mar
•	50.01	8.25	41.77	41.77	606	SF1.00	59900	599.00		*		MinPt-CtCt	
	50.17	8.56	41.61	41,81	586	SF1.00	628 88	628.88				MinPt-CiCi MinPts	
	54,43	9.89	44.54	44.54	6.50	SF1.00	758.17	758.12				MinPt-O-SF	
	96.67	13 49	83 18	83.18	7,17	SF1.00	1103.26	1101.97	C1-C1>30.00			Ext Alert	
	818.67	108.22	708 45	708 45	7.55	SF1.00	10070.91	10026.74	. 444730.00			MinPi-CiCi	
	817.32	110.08	707.24	707.24	7.42	SF1.00	10364.88	10189.59				MinPts	
	862.10	284.27	577.83	577.63	3.03	6F1.00	20645.58	10222.00				MinPts	
								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				. Martin	
Chevron HH CE 26 23 FED 002	<b>!</b>	-					-			* *			-
1H Rev0 YJ 26Jul 18 (Non-Def													
Plan)												,	Varning Alert
	75.00	2.50	72.53	72.53	30 01	SF1.00	0.00	0.00	α-α<3000			Enter Aleri	
	78.03	8 25	66.78	66.78	9.10	SF1.00	599 00	599 00	. "	•		MinPt-CtCt	
	75.19	8.56	68.63	66.63	8.78	\$F1.00	628 82	628.82				MinPts	
	84.25	10.60	73 65	73.65	7.95	SF1.00	827.09	826.95				MinPt-O-SF	
	98.08	11.93	86.15	86.15	8 22	\$F1.00	954.91	954.40	Ct-Ct>30 00			Exit Alert	
•	237.81	1868	219 13	219 13	12.73	SF1.00	1577.94	1574.05				MmPt-O-SF	
	1238.85	102.25	1134.61	1134.61	12,10	SF1.00	9402.01	9392.54				MinPts	
	1248.67	104.79	1143 87	1143.87	11,92	SF1.00	9635.65	9626,18				ManPt-O-SF	
	1260.69	105.67	1154.82	1154.82	11,01	SF1.00	9738.79	9727.0B				MinPt-O-SF.	
	1303.33	106.61	1196.73	1198.73	12.23	SF1.00	10579 42	10222.00				MmPt-CtCt	
	1345.34	285.20	1060.15	1060,15	4.72	\$F1.00	20645.58	10222.00				MmPts	

#### 1. FORMATION TOPS

The estimated tops of important geologic markers are as follows:

FORMATION	SUB-SEA TVD	KBTVD	MD
Castile		893	
Lamar		2,323	
Bell Canyon		2,357	
Cherry Canyon		3,185	
Brushy Canyon		4,351	• • • • • • • • • • • • • • • • • • • •
Avalon		6,095	
First Bone Spring		6,907	<del></del>
First Bone Spring Shale		7,114	
Second Bone Spring		7,502	
Third Bone Spring		8,647	
Wolfcamp A		9,006	
Wolfcamp C		9,810	
Wolfcamp D		9,957	
Wolfcamp D Target		10,222	20646

## 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 Ex	spected Base of Fresh Water	450
Water	Castile	893
Water	Cherry Canyon	3,185
Oil/Gas	Brushy Canyon	4,351
Oil/Gas	Avaion	6,095
Oil/Gas	First Bone Spring	6,907
Oil/Gas	Second Bone Spring	7,502
Oil/Gas	Third Bone Spring	8,647
Oil/Gas	Wolfcamp A	9,006
Oil/Gas	Wolfcamp C	9,810
Oil/Gas	Wolfcamp D	9,957

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.

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#### 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	STC	New
Intermediate	0'	9,106	12-1/4"	9-5/8"	43.5#	L-80IC	LTC	New
Production	0'	20,646'	8-1/2"	5-1/2"	20.0#	P-110	TXP BTC	New

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

Purpose	From	To	Hole Size	Csg Size	Weight	Grade	Thread	Condition
Surface	0'	800'	17-1/2"	13-3/8"	54.5#	J-55	STC	New
Intermediate Csg	0'	9,106'	12-1/4"	9-5/8"	43.5 #	L-80IC	LTC	New
Intermediate Liner	8,806'	10,400'	8-1/2"	7-5/8"	29.7 #	P-110	Wedge 513	New
Production	0'	9,558'	6-3/4"	5-1/2"	20.0#	P-110	TXP BTC	New
. Floduction	9,558'	20,646'	0-3/4	5"	18.0 #	P-110	Wedge 521	New

- For the four string contingency case, Chevron formally requests a variance from the annular spacing requirements for the BLM. Our b. contingency design includes 7-5/8" liner with 5.5" x 5" production casing. Because the 5.5" casing goes into the 7-5/8" liner, the spacing requirements will not be met. We request that the additional 300' above the liner top qualify as the required cement tieback interval for the production casing cement job.
- c. Casing design subject to revision based on geologic conditions encountered and actual formation tops.
- \*\*\*A "Worst Case" casing design for wells in a particular area is used below to calculate the Casing Safety Factors. If for any reason the casing design for a particular well requires setting casing deeper than the following "worst case" design, d. 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 maintain e. collapse SF.

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

**Surface Casing:** 

450' TVD

Intermediate Casing:

9241' TVD

Intermediate Liner Casing:

10369' TVD

**Production Casing:** 

21,291' MD/10,369' TVD

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

For alternate casing design with contingency:

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

The following worst case load cases were considered for calculation of the above Min. Safety Factors: Burst Design Surf Prod Int Liner Pressure Test- Surface, Int. Prod Cso. P external: Mud weight above TOC, PP below P internal: Test psi + next section heaviest mud in csg Displace to Gas- Surf Cso P external: Mud weight above TOC, PP below P internal: Dry Gas from Next Csg Point Gas over mud (60/40) - Int Csg/Liner P external: Mud weight above TOC, PP below 60% gas over 40% mud from hole TD PP P internal: Stimulation (Frac) Pressures- Prod Csg P external: Mud weight above TOC, PP below P internal: Max inj pressure w/ heaviest injected fluid Tubing leak- Prod Csg (packer at KOP) P external: Mud weight above TOC, PP below P internal: Leak just below surf, 8.45 ppg packer fluid Collapse Design Surf Int Liner Prod **Full Evacuation** P external: Mud weight gradient P internal: none Cementing-Surf, Int, Prod Csq Х x X P external: Wet cement displacement fluid - water P internal: Tension Design lSurf Int Liner Prod 100k (b overpul) X Х

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Slurry	Туре	Тор	Bottom	Weight	Yield	%Excess	Sacks	Water	Volume
Surface				(ppg)	(cu ft/sk)	Open Hole		gal/sk	bbls
Tail	Class C	0'	450'	14.8	1.34	50	488	6.40	117
Intermediate Csq - St	age 1					<del></del>			<u> </u>
Lead	Class C	2,097'	8,106'	11.9	2.56	10	808	14.66	369
Tail	Class C	8,106'	9,106'	14.8	1.33	10	287	6.38	68
Intermediate Csg - Sta	age 2 (DV tool @ +/- 2	097')	•			<del></del>		1 0.00	1
Lead	Class C	0'	1,597'	11.9	2.56	50	276	14.66	126
Tail	Class C	1,597'	2,097'	14.8	1.33	0	118	6.38	28
<u>Production</u>						<u> </u>		1 -::	<del></del>
Lead	Class C	8,806'	19,646'	15.6	1.18	10	2313	5.14	487
Tail	Class H	19,646'	20,646'	16	1.9	10	138	7.44	47

### Cementing Program for alternate casing design with contingency string:

\*No change to surface and intermediate cement design with implementation of contingency lines

Slurry	Туре	Тор	Bottom	Weight	Yield	%Excess	Sacks	Water	Volume
				(ppg)	(cu ft/sk)	Open Hole		gal/sk	bbis
Intermediate Liner	-							13	
Tail	Class C	8,806'	10,400'	14.5	1.4	10	116	6.77	29
Production					<u> </u>	<del></del>		1	
Lead	Class C	8,506'	19,646'	15.6	1.18	10	1176	5.14	247
Tail	Class H	19,646'	20.646'	16	1.9	10	70	7.44	24

1. Final cement volumes will be determined by caliper.

- 2. Surface casing shall have at least one centralizer installed on each of the bottom three joints starting with the shoe joint.
- 3. Production casing will have one horizontal type centralizer on every joint for the first 1000' from TD, then every other joint to EOB, and then every third joint to KOP. Bowspring type centralizers will be run from KOP to intermediate casing. No centralizers will
- 4. Intermediate casing cement job will be a 2 stage job with DV tool set at the base of Lamar.
- 5. Chevron requests a variance to qualify the additional 300' of cement above the liner top as the required cement tieback interval with >0.422" clearance for the production csg cmt job in the four string design. See 4.b. above.

From	To	Туре	Weight	Viscosity	Filtrate
0,	450'	Spud Mud	8.3 - 8.9	28-30	N/C
450'	9,106'	OBM	8.7 - 9.6	10-20	10-12
9,106'	20,646'	ОВМ	9.0 - 14.3	10-15	15-25

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

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

A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, get 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

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

## 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	Timina
Mudlogs	2 man mudlog	Int Csg to TD	Drillout of Int Csg
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 BHP is: 7,601 psi
 b. Hydrogen sulfide gas is not anticipated. An H2S Contingency plan is attached with this APD in the event that H2S is encountered



U.S. Department of the Interior **BUREAU OF LAND MANAGEMENT**  SUPO Data Report 01/07/2019

APD ID: 10400032981

Submission Date: 08/13/2018

**Operator Name: CHEVRON USA INCORPORATED** 

Well Name: HH CE 26 23 FED 002

Well Type: CONVENTIONAL GAS WELL

Well Number: 4H

Well Work Type: Drill

lighlighted data effects the most recent changes

**Show Final Text** 

### Section 1 - Existing Roads

Will existing roads be used? YES

**Existing Road Map:** 

HH\_CE\_26\_23\_FED\_002\_4H\_TOPO ACCESS ROAD MAP 20180813122906.pdf

**Existing Road Purpose: ACCESS, FLUID TRANSPORT** 

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? YES

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

**Existing Road Improvement Attachment:** 

### Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

**New Road Map:** 

HH\_CE\_26\_23\_FED\_002\_4H\_ACCESS\_ROAD\_MAP\_20180813122926.pdf

Rew road type: FOCAL

ongth: 2432.82

Lect

Width (ff.): 24

Max slope (%): 2

Max grade (%): 3

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 24

Well Name: HH CE 26 23 FED 002

Well Number: 4H

New read access crosion confrot: I resion / Disinege: Disinege control system shall be constructed on the entire length of feed by the use of any of the following: ditching and will be graveled as needed for drilling, side hill out sloping and in-sloping, lead-off ditches, culvert installation, or low water crossings, culverts, and water bars where needed: straw waddles will be used on the down slope side of new roads where undisturbed grades away from the roadway are 5% or greater. How road access plan or profile prepared? NO

New road access plan attachment:

Access road engineering design? NO:

Access road engineering design attachment:

Access surfacing type: NONI

Access topsoit source: ONSITE

Access surfacing type description:

Access on site topsoil source depth; 0

Offsite topsoil source description:

Onsife topsoil removal process: NONE MELDED

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

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

### **Drainage Control**

Rewroad drainage crossing: CROSSING,CULVERT,OTHER

Trainage Control comments: SEDIMERT TRAPS (HAY BALLS SUGGESTED BY BEM)

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

Road Drainage Control Structures (DCS) attachment:

### **Access Additional Attachments**

Additional Attachment(s):

## Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

**New Road Map:** 

HH\_CE\_26\_23\_FED\_002\_4H\_ACCESS\_ROAD\_MAP\_20180813122926.pdf

Rew road type:

l ength:

Width (ff.):

Max stope (%):

<u>wax grade (%):</u>

Army Corp of Engineers (ACOL) permit required?

Well Name: HH CE 26 23 FED 002	Well Number: 4H		
ACOE Permit Number(s):			
New road travel width:			
New road access crosion control:			
Rew road access plan or profile prepared?			
New road access plan attachment:			
Access road engineering design?			
Access road engineering design attachment:		· · · · · · · · · · · · · · · · · · ·	
Access surfacing type:	·		
Λοσσες (ορεσί) εσυτος:			
Access surfacing type description:			
Access onsile topsoil cource depth:	·		
Offsite topsoil source description:			7
Onsife fopsoil removal process:			
Access other construction information:			
Access miscellaneous information:			
Number of access turnouts:	ccess turnout map:		
Drainage Control			
New road drainage crossing:			
Drainage Control comments:			
koad Drainage Control Structures (DCS) desci	iption:		
Road Drainage Control Structures (DCS) descr Road Drainage Control Structures (DCS) attac			
	hment:		
Road Drainage Control Structures (DCS) attac	hment:		
Road Drainage Control Structures (DCS) attac Access Additional Attachme Additional Attachment(s):	hment: ents		
Road Drainage Control Structures (DCS) attace Access Additional Attachmen Additional Attachment(s): Section 2 - New or Reconstr	hment: ents		
Road Drainage Control Structures (DCS) attac  Access Additional Attachme  Additional Attachment(s):  Section 2 - New or Reconstr  Will new roads be needed? YES	hment: ents		
Road Drainage Control Structures (DCS) attace Access Additional Attachme Additional Attachment(s):  Section 2 - New or Reconstruction Will new roads be needed? YES New Road Map:	hment: ents ucted Access Roads		
Road Drainage Control Structures (DCS) attac  Access Additional Attachme  Additional Attachment(s):  Section 2 - New or Reconstr  Will new roads be needed? YES  New Road Map:  HH_CE_26_23_FED_002_4H_ACCESS_ROAD_	hment: ents ucted Access Roads		
Road Drainage Control Structures (DCS) attace Access Additional Attachme Additional Attachment(s):  Section 2 - New or Reconstruction Will new roads be needed? YES New Road Map:	hment: ents ucted Access Roads		

Well Name: HH CE 26 23 FED 002

Well Number: 4H

**ACOE Permit Number(s):** 

Row road travel width:

New read access crosion control:

New road access plan or profile prepared?

New road access plan attachment:

Access read engineering design?

Access road engineering design attachment:

Access surfacing type:

Access topsoif source:

Access surfacing type description:

Access onsite topsoil source depths

Offsite topsoil source description:

essporg layomen liosgototismO

Access other construction informations

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

**Drainage Control** 

New road drainage crossing:

Prainage Control comments:

Road Drainage Control Structures (DCS) description:

Road Drainage Control Structures (DCS) attachment:

**Access Additional Attachments** 

Additional Attachment(s):

**Section 3 - Location of Existing Wells** 

**Existing Wells Map?** YES

Attach Well map:

HH\_CE\_26\_23\_FED\_002\_4H\_1\_MILE\_RADIUS\_MAP\_AND\_DATA\_20180813122944.pdf

**Existing Wells description:** 

Well Name: HH CE 26 23 FED 002 Well Number: 4H

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

### Submit or defer a Proposed Production Facilities plan? DEFER

Estimated Production Facilities description: Facilities: Existing production facilities located in the NE corner of Sec. 35, T26S-R27E where oil and gas sales will take place. Gas compression will occur within the proposed facility boundaries. Gas purchaser pipeline is in place at the tank battery. Open top tanks or open containments will be netted. Open vent exhaust stacks will be modified to prevent birds or bats from entering, discourage perching, roosting, and nesting. Facilities will have a secondary containment 1.5 times the holding capacity of largest storage tank. All above ground structures will be painted non-reflective shale green for blending with surrounding environment. Pipelines Include: 3,394' of Flowlines carrying production (buried) 3,437' Gas Lift Line carrying pressurized gas (buried) 3,484' Temporary Water line carrying fresh water (surface) A ROW will be applied (if necessary; "Cicada Unit" pending) for through the State and BLM. (30' wide) All construction activity will be confined to the approved ROW. Pipeline will run parallel to the road and will stay within approved ROW.

## **Section 5 - Location and Types of Water Supply**

### **Water Source Table**

Water source use type: INTERMEDIATE/PRODUCTION CASING, Water source type: GW WELL

SURFACE CASING Describe type:

Source latitude: Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Source land ownership: FEDERAL

Water source transport method: PIPELINE

Source transportation land ownership: FEDERAL

Water source volume (barrels): 716000 Source volume (acre-feet): 92.28746

Source volume (gal): 30072000

### Water source and transportation map:

HH\_CE\_26\_23\_FED\_002\_4H\_TOPO\_MAP\_\_20180813123005.pdf

Water source comments: Private source with ponds located in SW4 Section 9 T26S R27E. A temporary 10" expanding pipe surface transfer line will run along established disturbance corridors, such as along access roads or on top of flowline or pipeline right of way. Water line will run parallel to road and will stay within 10' of access road. Temporary BLM ROWs will be applied for as needed for the water transfer lines. Existing ponds in Section 2, 9 & 10, T26S-R27E will be also utilized for fresh water or recycled water.

New water well? NO

## **New Water Well Info**

Well latitude: Well Longitude: Well datum:

Well Name: HH CE 26 23 FED 002 Well Number: 4H

Well target aquifer:

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

**Aquifer comments:** 

Aguifer documentation:

Well depth (ft):

Well casing type:

Well casing outside diameter (in.):

Well casing inside diameter (in.):

New water well casing?

Used casing source:

**Drilling method:** 

**Drill material:** 

**Grout material:** 

Grout depth:

Casing length (ft.):

Casing top depth (ft.):

**Well Production type:** 

**Completion Method:** 

Water well additional information:

State appropriation permit:

Additional information attachment:

### **Section 6 - Construction Materials**

**Construction Materials description:** Caliche will be sourced from a chevron operated NMSLO pit in S2 NW4 Sec. 16, T26S R27E or an alternate private pit in Sec. 13, T24S R27E Eddy County, NM.

**Construction Materials source location attachment:** 

### Section 7 - Methods for Handling Waste

Waste type: GARBAGE

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

frac sand Drill cutting

Amount of waste: 200

pounds

Waste disposal frequency: Daily

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

Safe containment attachment:

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

**FACILITY** 

Disposal type description:

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

Well Name: HH CE 26 23 FED 002

Well Number: 4H

### **Reserve Pit**

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.)

Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

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

Reserve pit liner

Reserve pit liner specifications and installation description

### **Cuttings Area**

Cuttings Area being used? NO

Are you storing cuttings on location? NO

**Description of cuttings location** 

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

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

**WCuttings** area liner

Cuttings area liner specifications and installation description

## **Section 8 - Ancillary Facilities**

Are you requesting any Ancillary Facilities?: NO

**Ancillary Facilities attachment:** 

Comments:

## Section 9 - Well Site Layout

Well Site Layout Diagram:

HH\_CE\_26\_23\_FED\_002\_4H\_WELL\_PLAT\_R1\_Cert\_7\_25\_18\_20180813123043.pdf

Comments: Exterior well pad dimensions are 495' x 380'.

Well Name: HH CE 26 23 FED 002 Well Number: 4H

### Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: HH CE 26 23 FED 002

Multiple Well Pad Number: 1H - 4H

#### Recontouring attachment:

HH\_CE\_26\_23\_FED\_002\_INTERIM\_REC\_20180809160342.pdf

HH\_CE\_26\_23\_FED\_002\_CUT\_FILL\_PAD\_AND\_ROAD\_ACCESS 20180809160409.pdf

HH\_CE\_26\_23\_FED\_002\_FLOWLINE\_DETAIL\_Cert\_7\_20\_18\_20180809162517.pdf

Drainage/Erosion control construction: Proper erosion control methods will be used on the area to control erosion, runoff, and siltation of the surrounding area.

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

Well pad proposed disturbance

(acres): 6.6

Road proposed disturbance (acres):

1.14

Powerline proposed disturbance

(acres): 0

Pipeline proposed disturbance

(acres): 0.29790002

Total proposed disturbance: 8.0379

Well pad interim reclamation (acres): Well pad long term disturbance

(acres): 2.5

Road interim reclamation (acres): 0.57 Road long term disturbance (acres):

Powerline interim reclamation (acres):

Pipeline interim reclamation (acres):

0.018181818

Other proposed disturbance (acres): 0 Other interim reclamation (acres): 0

Total interim reclamation: 4.688182

Powerline long term disturbance

(acres): 0

Pipeline long term disturbance

(acres): 0.2797182

Other long term disturbance (acres): 0

Total long term disturbance: 3.349718

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

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

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

Soil treatment: After all the disturbed areas have been properly prepared; the areas will be seeded with the proper BLM seed mixure, free of noxious weeds.

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

**Existing Vegetation at the well pad attachment:** 

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

**Existing Vegetation Community at the road attachment:** 

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

**Existing Vegetation Community at the pipeline attachment:** 

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

**Existing Vegetation Community at other disturbances attachment:** 

Non native seed used? NO	
Non native seed description:	
Seedling transplant description:	
Will seedlings be transplanted for this pr	oject? NO
Seedling transplant description attachmo	ent:
Will seed be harvested for use in site rec	lamation? NO
Seed harvest description:	
Seed harvest description attachment:	
Seed Management	
Seed Table	
Seed type:	Seed source:
Seed name:	
Source name:	Source address:
Source phone:	
Seed cultivar:	
Seed use location:	
PLS pounds per acre:	Proposed seeding season:
Seed Summary	Total pounds/Acre:
Seed Type Pound	s/Acre
Seed reclamation attachment:	
Operator Contact/Responsit	ole Official Contact Info
First Name: Kevin	Last Name: Dickerson
Phone:	Email: lfuh@chevron.com
Seedbed prep:	
Seed BMP:	
Seed method:	
Existing invasive species? NO	

Well Number: 4H

**Operator Name: CHEVRON USA INCORPORATED** 

Well Name: HH CE 26 23 FED 002

**Operator Name: CHEVRON USA INCORPORATED** 

Well Name: HH CE 26 23 FED 002

Well Number: 4H

Existing invasive species treatment description:

Existing invasive species treatment attachment:

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

Weed treatment plan attachment:

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

established.

Monitoring plan attachment:

Success standards: As per BLM requirements.

Pit closure description: None

Pit closure attachment:

#### Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

**BIA Local Office:** 

**BOR Local Office:** 

**COE Local Office:** 

**DOD Local Office:** 

**NPS Local Office:** 

**State Local Office:** 

Military Local Office:

**USFWS Local Office:** 

**Other Local Office:** 

**USFS** Region:

**USFS Forest/Grassland:** 

**USFS Ranger District:** 

#### Section 12 - Other Information

Right of Way needed? YES

Use APD as ROW? YES

ROW Type(s): 281001 ROW - ROADS, 287001 ROW - Water Facility, 288100 ROW - O&G Pipeline, Other

**Operator Name: CHEVRON USA INCORPORATED** 

Well Name: HH CE 26 23 FED 002 Well Number: 4H

#### **ROW Applications**

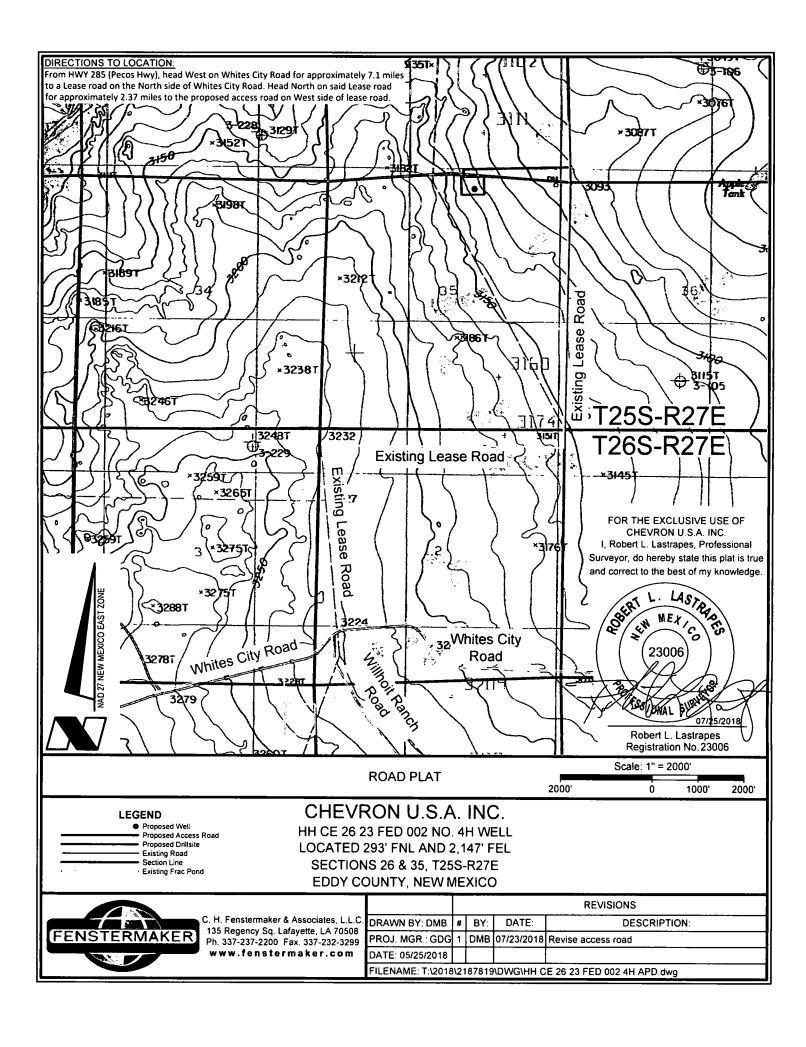
SUPO Additional Information: Recycle containment pond design feature. -Four permanent recycle containment ponds will be required. -Permanent buried pipelines will be installed to transport water. -All wells covered by the MDP will require hydraulic fracturing. -The ponds will be designed as "multiwell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

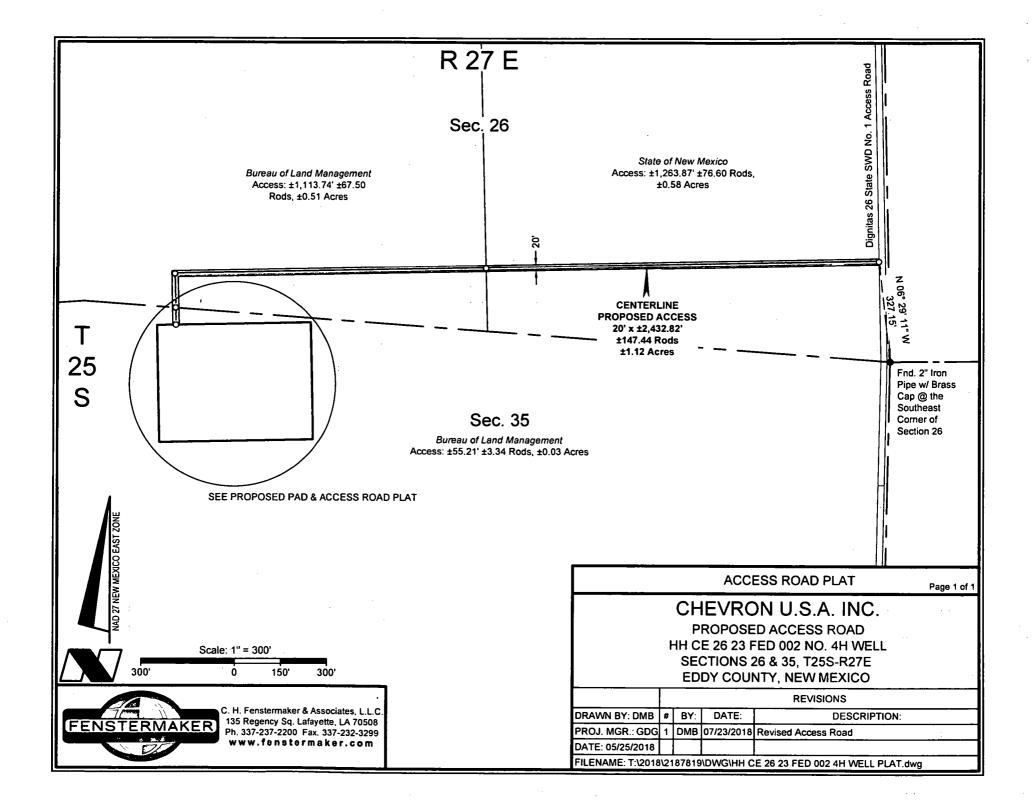
Use a previously conducted onsite? YES

Previous Onsite information: On-site performed by BLM, Mr. Paul Murphy.

#### **Other SUPO Attachment**

HH\_CE\_26\_23\_FED\_002\_SUPO\_\_20180813123124.pdf



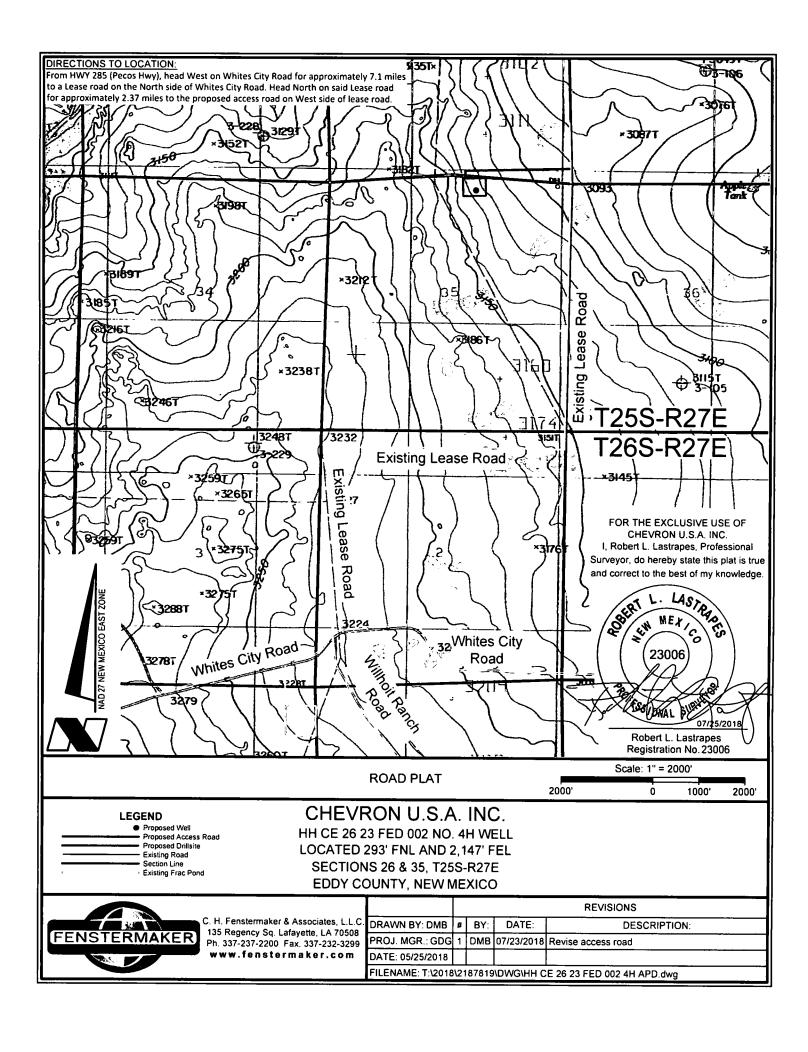


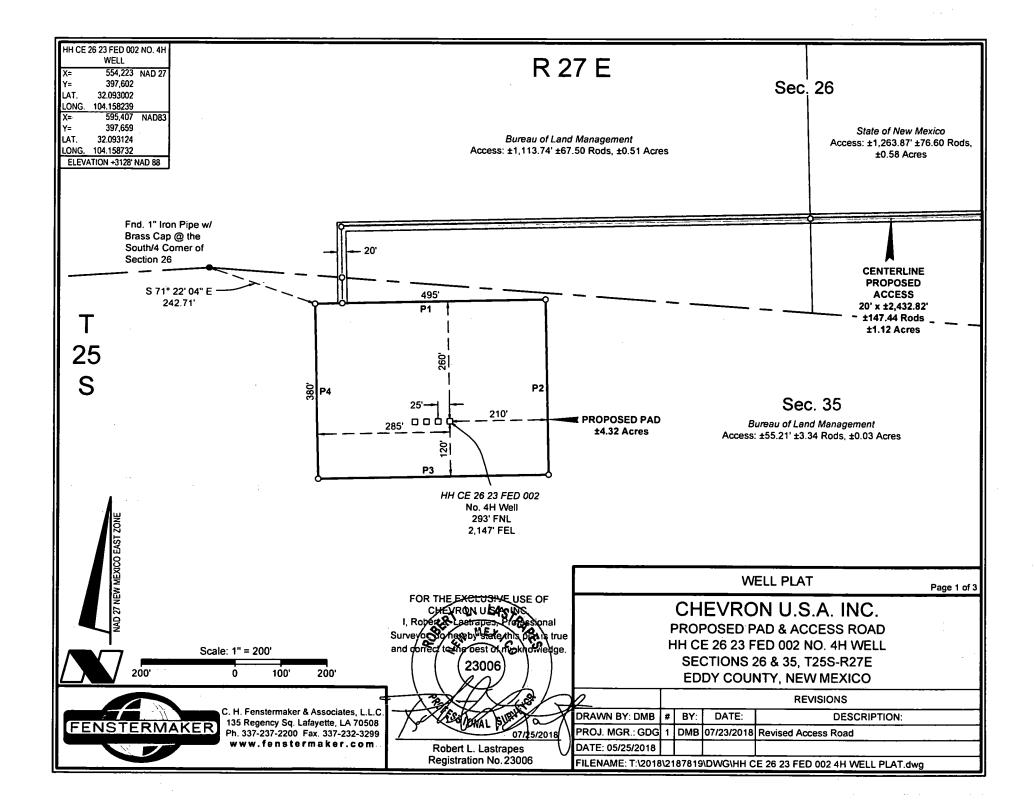


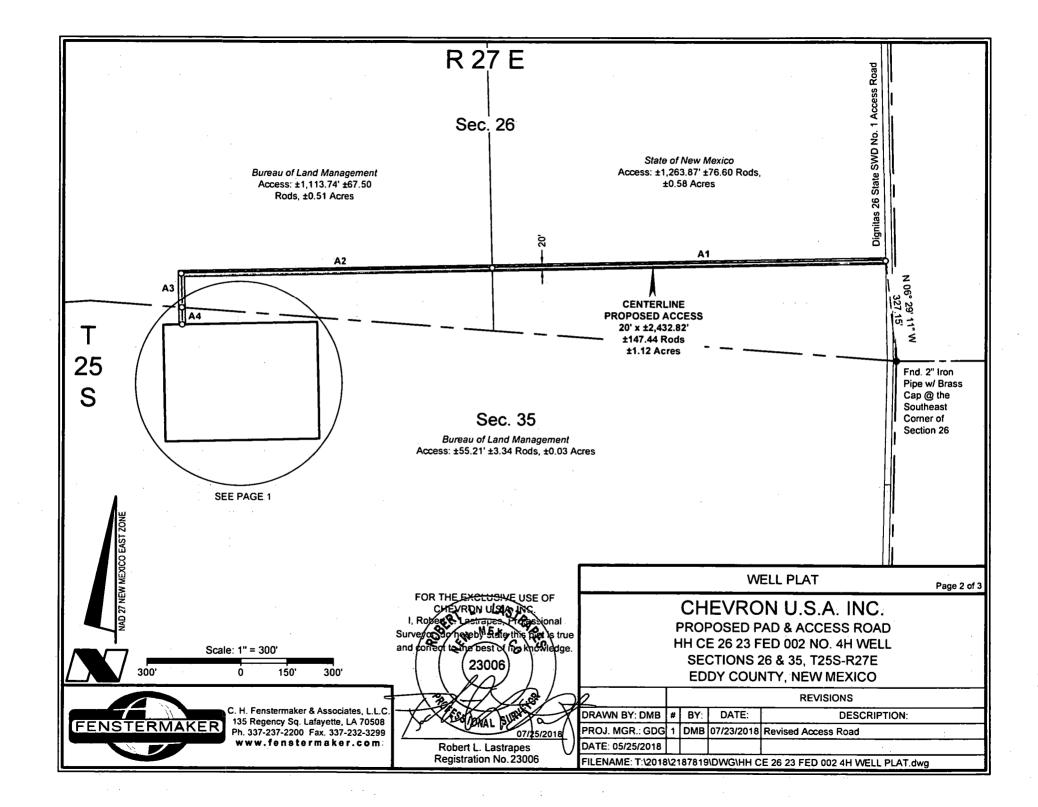
#### 1 MILE RADIUS MAP & WELL DATA

API	Well Name	Well Number	Operator	- Final Status	SHL to SHL DistanceHH CE 26 23 FED 002 4H
30015442020000	DIGNITAS 26 STATE SWD	1	CHEVRON U S A INCORPORATED	WELL PERMIT	2220
30015011470000	LOCKWOOD	1	CHAMBERS&KENEDY-RITCHIE	DRY & ABANDONED	1710
30015443470000	HH CE 35 2 FED 006	001H	CHEVRON U S A INCORPORATED	AT TOTAL DEPTH	3065
30015443460000	HH CE 35 2 FED 006	002H : ::	CHEVRON U S A INCORPORATED	WELL START	3085
30015443500000	HH CE 35 2 FED 006	003H	CHEVRON U S A INCORPORATED	AT TOTAL DEPTH	3105
30015443490000	HH CE 35 2 FED 006	004H	CHEVRON U S A INCORPORATED	AT TOTAL DEPTH	3130
30015443450000	HH CE 35 2 FEDERAL 006	005H	CHEVRON U.S.A. INCORPORATED	WELL START	3150
30015443480000	HH CE 35 2 FED 006	006Н	CHEVRON U S A INCORPORATED	WELL START	3175
30015238480000		1	WOOD & LOCKER INCORPORATED	ABD-OW	4870
30015378040000	HAYHURST 23 STATE COM	1H	MEWBOURNE OIL COMPANY	SPUD & ABONDONED	5570
	COOKSEY '26' FEDERAL COM	1H	CHESAPEAKE OPERATING INCORPORATED	OIL PRODUCER	5620
30015351490000	CROSSMAN STATE COM	1	MARBOB ENERGY CORPORATION	ABANDON LOCATION	5250
30015413550000	HAYHURST 23 OB STATE COM	1H	MEWBOURNE OIL COMPANY	WELL PERMIT	5765
30015394260000	HAYHURST '23' STATE COM	2H	MEWBOURNE OIL COMPANY	OIL PRODUCER	5785
30015413560000	HAYHURST 23 PA STATE COM	1H .	MEWBOURNE OIL COMPANY	OIL PRODUCER	5895

					<del> </del>		
8	9	10	11	12	7	8	
	92 9t;	15 S 27E	14	13	18	17	16 23 2
	10 CF 11.86	22		24 24	19	20	21
29	28	27	ತಾ.ಎಂದ್ರರ್ ಬ್ಯಾಂಕ್ಷ್	125	30	29	28
	33	34	(CE)			32	33
	4	. 3	65 (G-65 () 65 k	(~&920)	6	5	4
	9				7	8	9
						7.	-0:50







PROPOSED PAD						
COURSE	BEARING	DISTANCE				
P1	N 88° 46' 37" E	495.00'				
P2	S 01° 13' 23" E	380.001				
P3	S 88° 46' 37" W	495.00'				
P4	N 01° 13' 23" W	380.00'				

CENTERL	NE PROPOSED AC	CESS ROAD
COURSE	BEARING	DISTANCE
A1	S 88° 48' 27" W	1263.87'
A2	S 88° 48' 27" W	1003.73
А3	S 01° 11' 33" E	110.01'
A4	S 01° 11' 33" E	55.21'

N,	W PAD CORN	ER	N	E PAD CORN	ER
X=	553,933	NAD 27	X=	554,428	NAD 27
Y=	397,856		Y=	397,866	
LAT.	32.093702		LAT.	32.093728	
LONG.	104.159176		LONG.	104.157578	
X=	595,117	NAD83	X=	595,612	NAD83
Y≕	397,913		Y=	397,924	
LAT.	32.093824	·	LAT.	32.093850	
LONG.	104.159668		LONG.	104.158070	
ELEV	ATION +3134' I	NAD 88	ELEV	ATION +3119 /	88 GA/
SI	N PAD CORN	ER	S	E PAD CORNI	ER .
X=	553,941	NAD 27	X=	554,436	NAD 27
Y=			Y=	397,486	
Y=					
Y= LAT.	397,476		LAT.	397,486	
Y= LAT. LONG.	397,476 32.092657		LAT. LONG.	397,486 32.092684	NAD83
Y= LAT. LONG. X=	397,476 32.092657 104.159152		LAT. LONG. X=	397,486 32.092684 104.157554	NAD83
Y= LAT. LONG. X= Y=	397,476 32.092657 104.159152 595,125	NAD83	LAT. LONG. X= Y=	397,486 32.092684 104.157554 595,620	NAD83
Y= LAT. LONG. X= Y= LAT.	397,476 32.092657 104.159152 595,125 397,533	NAD83	LAT. LONG. X= Y= LAT.	397,486 32.092684 104.157554 595,620 397,544	NAD83

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

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#### WELL PLAT

Page 3 of 3

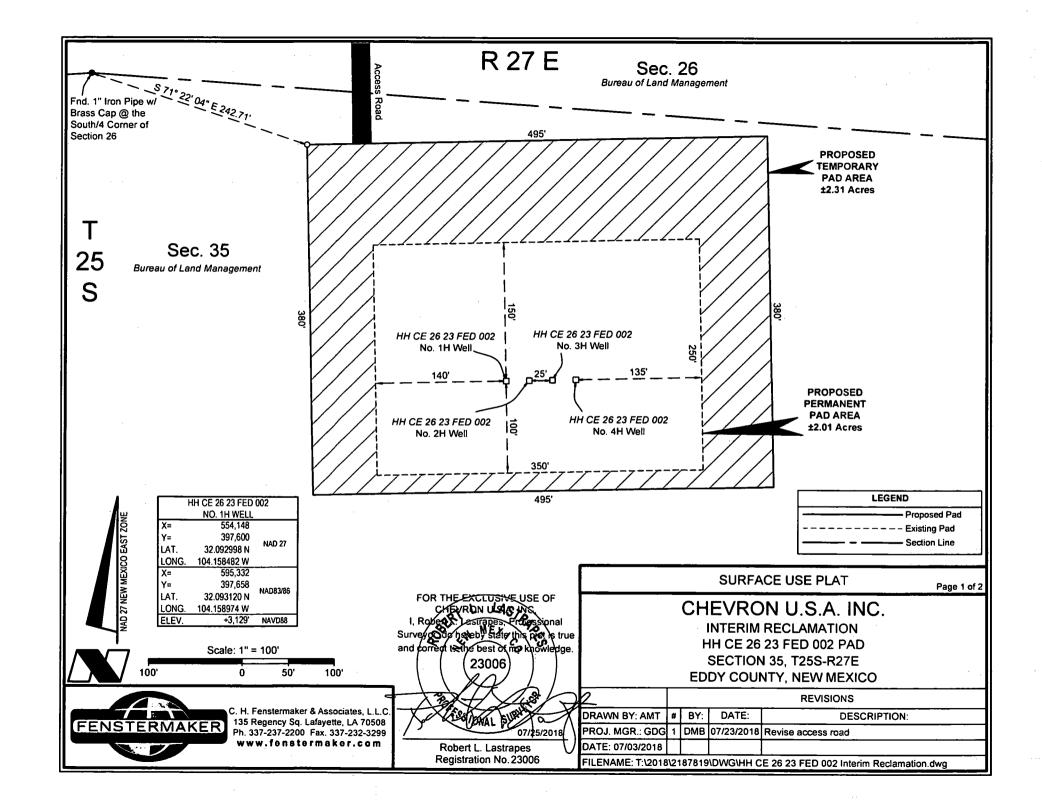
## CHEVRON U.S.A. INC.

PROPOSED PAD & ACCESS ROAD HH CE 26 23 FED 002 NO. 4H WELL SECTIONS 26 & 35, T25S-R27E **EDDY COUNTY, NEW MEXICO** 

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enstermaker & Associates, L.L.C. tegency Sq. Lafayette, LA 70508	XX	ESS MAIN	SURVIVO	X	DRAWN BY: DMB	#	BY:	DATE:	DESCRIPTION:
37-237-2200 Fax. 337-232-3299	/ /		07/25/201	<b>8</b> ( \	PROJ. MGR.: GDG	1	DMB	07/23/2018	Revised Access Road
w.fenstermaker.com		Robert L. Las		VI	DATE: 05/25/2018				
	R	egistration N	ło. 23006		FILENAME: T:\2018\2187819			87819\DWG\HH CE 26 23 FED 002 4H WELL PLAT.dwg	

I, Robert Lastrages, Indestional Surveyor of natery State this fact is true and correct wife best of its knowledge.

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

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	NW PAD CORN	ER		NE PAD CORNE	R
X=	553,933		X=	554,428	
Y=	397,856	NAD 27	Y=	397,866	NAD 27
LAT.	32.093702 N	NAD 27	LAT.	32.093728 N	NAU 21
LONG.	104.159176 W		LONG.	104.157578 W	
X=	595,117		X=	595,612	
Y=	397,913	NAD83/2011	Y=	397,924	NAD83/2011
LAT.	32.093824 N	NAMOSYZUTT	LAT.	32.093850 N	NAU63/2011
LONG.	104.159668 W		LONG.	104.158070 W	·
ELEV.	+3.134	NAVD88	ELEV.	+3,119	NAVD88
				-0,110	1011000
	SW PAD CORNI			SE PAD CORNE	
X=			X=		
X= Y=	SW PAD CORNI	ER		SE PAD CORNE	R
	SW PAD CORNI 553,941		X=	SE PAD CORNE 554,436	
Y=	SW PAD CORNI 553,941 397,476	ER	X= Y=	SE PAD CORNE 554,436 397,486 32.092684 N	R
Y= LAT.	SW PAD CORNI 553,941 397,476 32.092657 N	ER	X= Y= LAT.	SE PAD CORNE 554,436 397,486 32.092684 N	R
Y= LAT. LONG.	SW PAD CORNI 553,941 397,476 32.092657 N 104.159152 W	NAD 27	X= Y= LAT. LONG.	SE PAD CORNE 554,436 397,486 32.092684 N 104.157554 W	NAD 27
Y= LAT. LONG. X=	553,941 397,476 32.092657 N 104.159152 W 595,125	ER	X= Y= LAT. LONG.	SE PAD CORNE 554,436 397,486 32.092684 N 104.157554 W 595,610	R
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SURFACE USE PLAT

Page 2 of 2

#### CHEVRON U.S.A. INC.

INTERIM RECLAMATION HH CE 26 23 FED 002 PAD SECTION 35, T25S-R27E EDDY COUNTY, NEW MEXICO

FENSTERMAKER

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

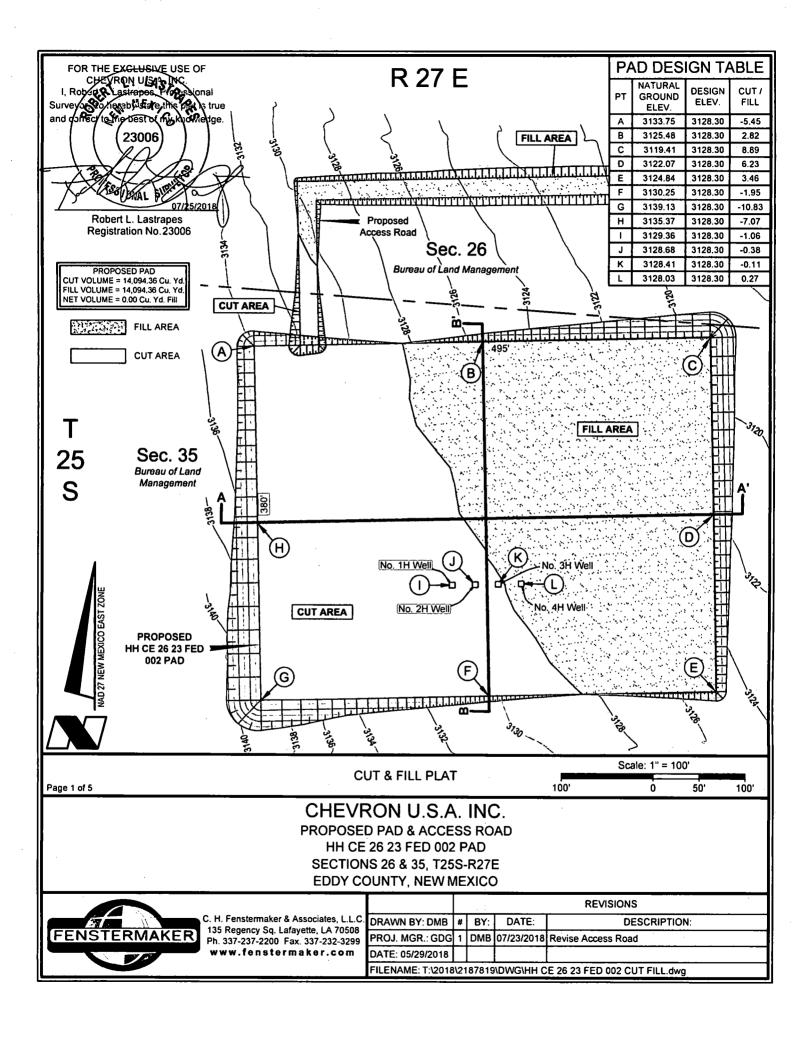
Robert L. Lastrapes
Registration No. 23006

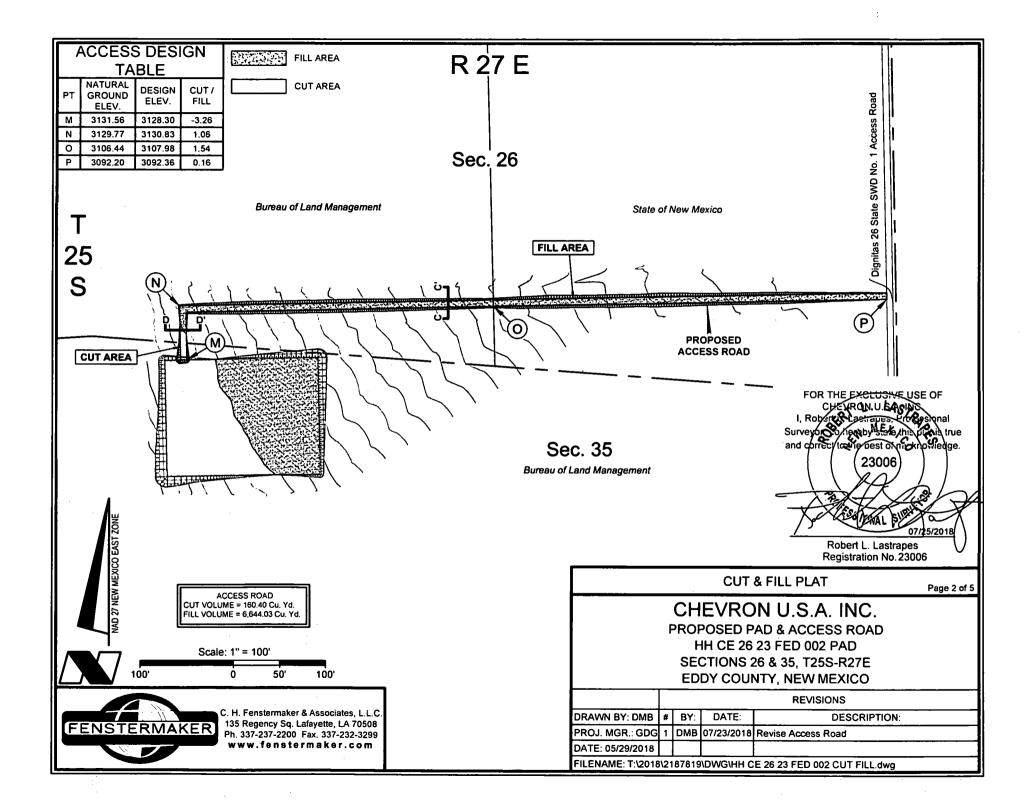
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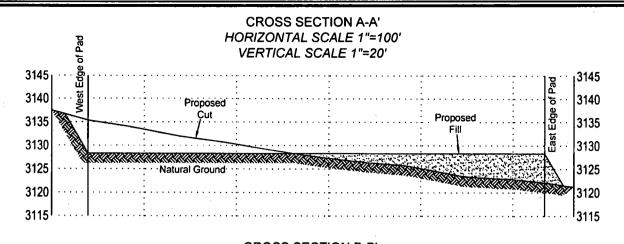
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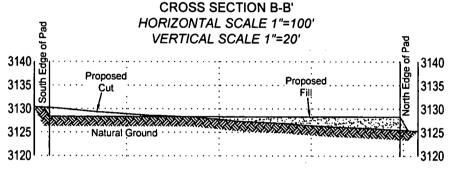
PROJ. MGR.: GDG
DATE: 07/03/2018

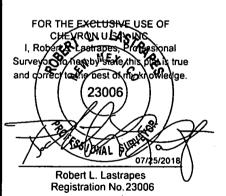
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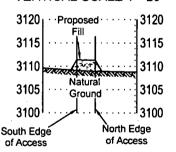




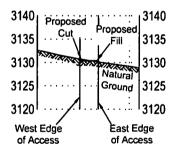




CROSS SECTION C-C'
HORIZONTAL SCALE 1"=100'
VERTICAL SCALE 1"=20'



CROSS SECTION D-D' HORIZONTAL SCALE 1"=100' VERTICAL SCALE 1"=20'



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**CUT & FILL PLAT** 

Page 3 of 5

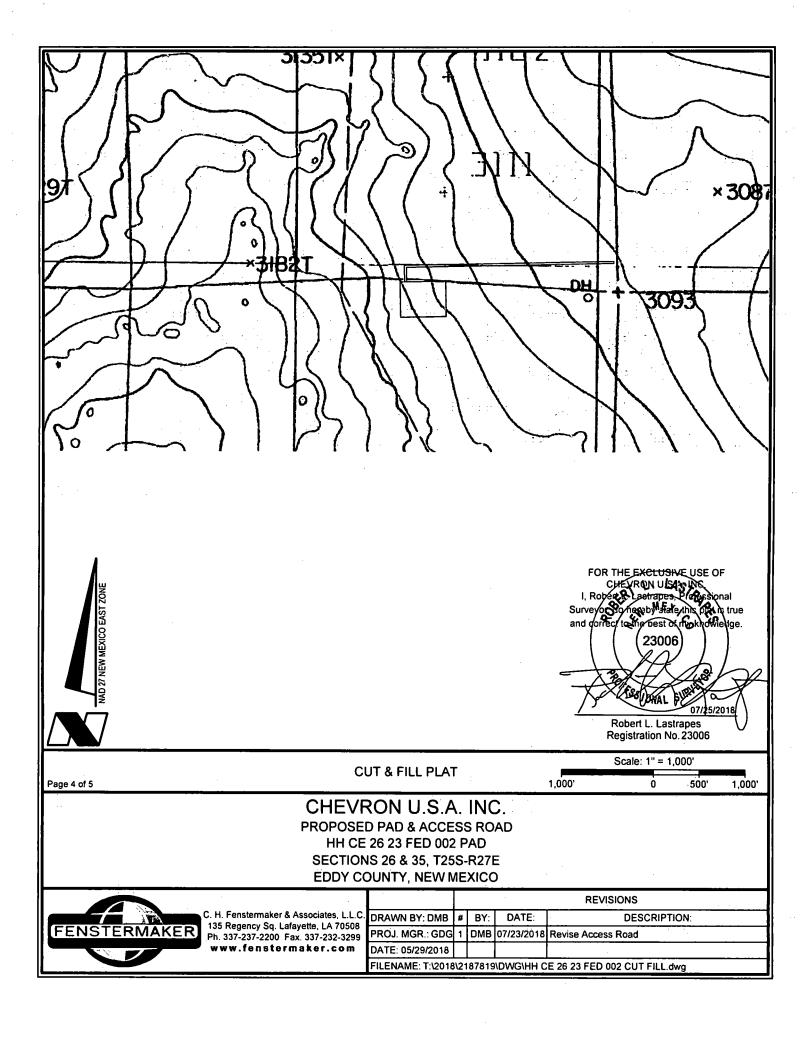
### CHEVRON U.S.A. INC.

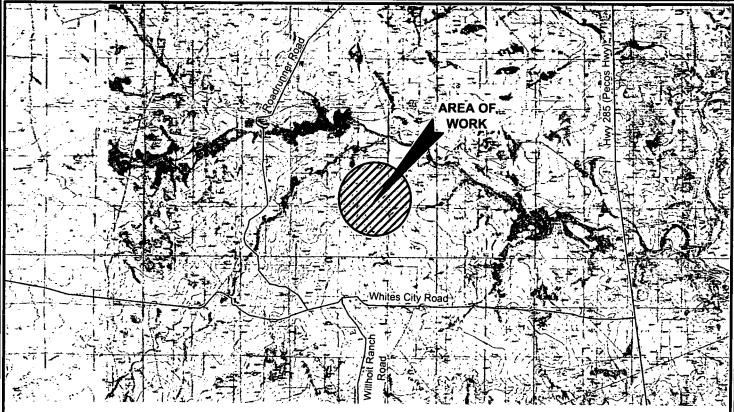
PROPOSED PAD & ACCESS ROAD HH CE 26 23 FED 002 PAD SECTIONS 26 & 35, T25S-R27E EDDY COUNTY, NEW MEXICO



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

		REVISIONS					
DRAWN BY: DMB	#	BY:	DATE:	DESCRIPTION:			
PROJ. MGR.: GDG	1	DMB	07/23/2018	Revise Access Road			
DATE: 05/29/2018			_				
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DISCLAIMER: At this time, C. H. Fenstermaker & Associates, L.L.C. has not performed nor was asked to perform any type of engineering, hydrological modeling, flood plain, or "No Rise" certification analyses, including but not limited to determining whether the project will impact flood hazards in connection with federal/FEMA, state, and/or local laws, ordinances and regulations. Accordingly, Fenstermaker makes no warranty or representation of any kind as to the foregoing issues, and persons or entities using this information shall do so at their own risk.

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

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

FOR THE EXCLUSIVE USE OF CHEVRON USAS INC.

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and coffee to the best of the knowledge.

(23006)

Robert L. Lastrapes Registration No. 23006

Page 5 of 5

**CUT & FILL PLAT** 

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

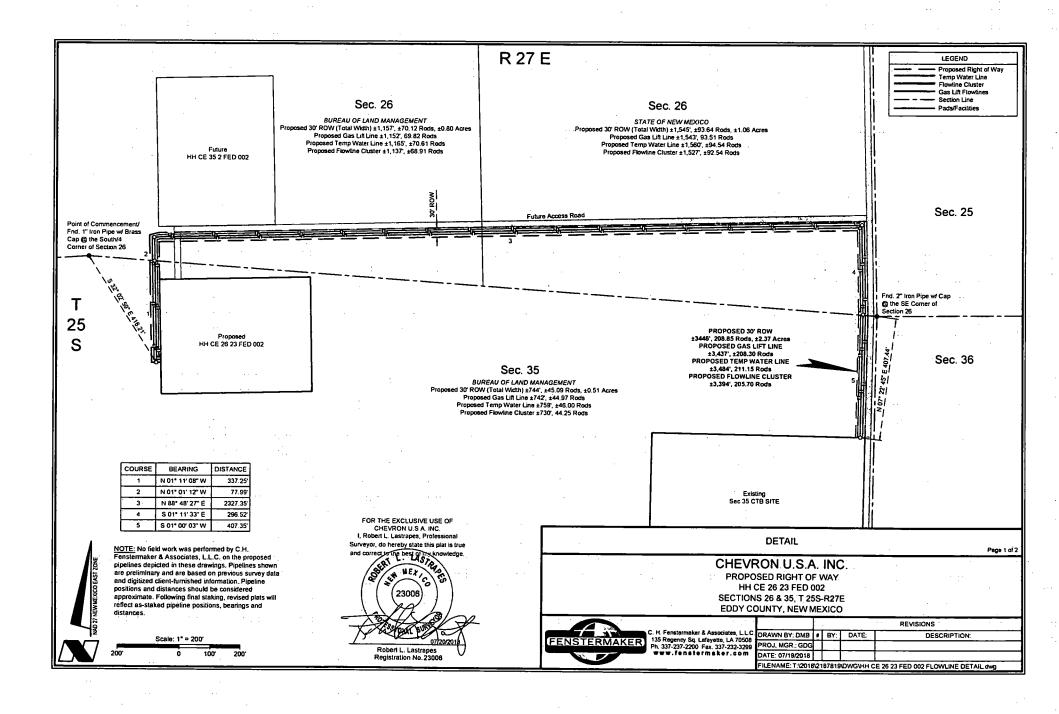
## CHEVRON U.S.A. INC.

PROPOSED PAD & ACCESS ROAD HH CE 26 23 FED 002 PAD SECTIONS 26 & 35, T25S-R27E EDDY COUNTY, NEW MEXICO



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

FOR THE EXCLUSIVE USE OF CHEVRON U.S.A. INC. I, Robert L. Lastrapes, Professiona Surveyor, do hereby state this plat is true



Scale: 1° = 200°

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

#### HH CE 26 23 FED 002 RIGHT OF WAY

Description of the centerline of a proposed 30 feet wide by 3446 feet or 285.85 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 North quarter corner of said section 35 Township 25 South Range 27 East at a found 1" iron pipe with brass cap, Thence South 32 degrees 02 minutes 59 seconds East 416.21 feet to the Point of Beginning. Said Point of Beginning having the following coordinates: X = 553,923.74, Y = 397,580.48 (New Mexico State Plane Coordinate System, East Zone, NAD 27).

Thence North 01 degrees 11 minutes 08 seconds West 337.25 feet to a common section line of said sections 35 and 26, T25S-R27E,

Thence North 01 degrees 01 minutes 12 seconds West 77,99 feet to a point:

Thence North 88 degrees 48 minutes 27 seconds East 2,327.35 feet to a point;

Thence South 01 degrees 11 minutes 33 seconds East 296.52 feet to a common section line of said sections 26 and 35 T25S-R27F

Thence South 01 degrees 00 minutes 03 seconds West 407.35 feet to the Point of Ending, having the following coordinates X= 556,241.15 and Y= 397,340,31 (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,

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

DETAIL

Page 2 of 2

#### CHEVRON U.S.A. INC.

PROPOSED RIGHT OF WAY HH CE 26 23 FED 002 SECTIONS 26 & 35, T 25S-R27E EDDY COUNTY, NEW MEXICO



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

REVISIONS DRAWN BY: DMB # BY: DATE: DESCRIPTION: PROJ. MGR.: GDG DATE: 07/19/2018 FILENAME: T:\2018\2187619\DWG\HH CE 26 23 FED 002 FLOWLINE DETAIL.dwg

# APD Surface Use Plan of Operations

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

#### **HDA Master Development Plan Reference Table**

The contents referenced below apply to all HDA APD's

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

## **Driving Directions**

Driving Directions – From Malaga, New Mexico. The location is approximately 11.5 miles from the nearest town, which is Malaga, New Mexico. From Malaga, proceed South on Highway 285 approximately 11.5 miles and turn right (West) onto White City Rd and go approximately 6.5 miles on White City Road until the road reaches an intersection with a lease road in Section 2 (T26S R27E). Turn right onto this and travel 2.6 mi, then turn left (West) onto the access road and well location is on the left in .5 miles.

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

- There will be 2,432.82' of new road construction for this proposal (1.12 acres)
- Ditches: See MDP
- Culverts: See MDP
- Road Cuts: See MDP

## **Location of Existing Wells**

1-Mile radius map is attached

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

- Facilities: Existing production facilities located in the NE corner of Sec. 35, T26S-R27E where oil and gas sales will take place.
  - 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.
- Pipelines: See Detail
  - o Pipelines Include:
    - 3,394' of Flowlines carrying production (buried)
    - 3,437' Gas Lift Line carrying pressurized gas (buried)
    - 3,484' Temporary Water line carrying fresh water (surface)
  - A ROW will be applied (if necessary; "Cicada Unit" pending) for through the State and BLM. (30' wide)
  - o All construction activity will be confined to the approved ROW.
  - o Pipeline will run parallel to the road and will stay within approved ROW.

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

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

## Construction Materials (MDP SUPO Pg. 6)

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

## **Methods for Handling Waste**

- Drilling fluids and produced oil and water from the well during drilling and completion operations will be stored safely and disposed of properly in an NMOCD approved disposal facility.
- 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
  - o Topsoil placement is on the west where interim reclamation is planned to be completed upon completion of well and evaluation of best management practices.
  - o Cut and fill: will be minimal.
- 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

## **Surface Ownership**

- BLM Surface
  - o Surface Tenant Joy Cooksey.
- Nearest Post Office: Malaga Post Office; 11.4 Miles north

### **Other Information**

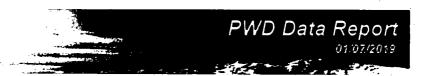
- On-site performed by BLM NRS: Paul Murphy 4/19/2018
- Cultural report attached: MDP Participating Agreement attached: N/A

## **Chevron Representatives**

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



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



### **Section 1 - General**

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

#### **Section 2 - Lined Pits**

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

**Lined pit Monitor attachment:** 

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

PWD disturbance (acres):

## **Section 3 - Unlined Pits**

Injection well mineral owner:

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:		
PWD surface owner:	PWD disturbance (acres):	
Unlined pit PWD on or off channel:		
Unlined pit PWD discharge volume (bbl/day):		
Unlined pit specifications:		
Precipitated solids disposal:		
Decribe precipitated solids disposal:		
Precipitated solids disposal permit:		
Unlined pit precipitated solids disposal schedule:		
Unlined pit precipitated solids disposal schedule attachmen	nt:	
Unlined pit reclamation description:		
Unlined pit reclamation attachment:		
Unlined pit Monitor description:		
Unlined pit Monitor attachment:		
Do you propose to put the produced water to beneficial use	<del>)</del> ?	
Beneficial use user confirmation:		
Estimated depth of the shallowest aquifer (feet):		
Does the produced water have an annual average Total Dist that of the existing water to be protected?	solved Solids (TDS) concentration equal to or less th	ıan
TDS lab results:		
Geologic and hydrologic evidence:		
State authorization:		
Unlined Produced Water Pit Estimated percolation:		
Unlined pit: do you have a reclamation bond for the pit?		
Is the reclamation bond a rider under the BLM bond?		
Unlined pit bond number:		
Unlined pit bond amount:		
Additional bond information attachment:		
Section 4 - Injection		
Would you like to utilize Injection PWD options? NO		
Produced Water Disposal (PWD) Location:		
PWD surface owner:	PWD disturbance (acres):	
Injection PWD discharge volume (bbl/day):		

Injection well type:	
Injection well number:	Injection well name:
Assigned injection well API number?	Injection well API number:
Injection well new surface disturbance (acres):	
Minerals protection information:	
Mineral protection attachment:	
Underground Injection Control (UIC) Permit?	
UIC Permit attachment:	
Section 5 - Surface Discharge	
Would you like to utilize Surface Discharge PWD options? NO	
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Surface discharge PWD discharge volume (bbl/day):	
Surface Discharge NPDES Permit?	
Surface Discharge NPDES Permit attachment:	
Surface Discharge site facilities information:	
Surface discharge site facilities map:	
Section 6 - Other	
Would you like to utilize Other PWD options? NO	
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Other PWD discharge volume (bbl/day):	
Other PWD type description:	
Other PWD type attachment:	
Have other regulatory requirements been met?	
Other regulatory requirements attachment:	

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

## Bond Info Data Report

#### **Bond Information**

Federal/Indian APD: FED

**BLM Bond number: CA0329** 

**BIA Bond number:** 

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

**BLM** reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment: