HAR OIL CONSERVATION

Form 3160 -3 (March 2012)

MAR 19 2016

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

UNITED STATES

Lease Serial No.

| INTERIOR | CETVED | | NMLC067136 | | | | |
|------------------------------------|--|---|--|---|--|--|--|
| | - | | 6. If Indian, Allotee | or Tribe Name | | | |
| ER | | | 7. If Unit or CA Agreement, Name and No. | | | | |
| Sin | ngle Zone Multip | ole Zone | 8. Lease Name and Well No. 32 10 2 MUSTANG 34 FEDERAL COM 24H | | | | |
| _ | 229137 | | 9. API Well No. 30-0/5-448/7 | | | | |
| i . | | | 10. Field and Pool, or PENASCO DRAW | Exploratory / SA-YESO (ASSOC) | | | |
| ıy State requirem | ents.*) | | 11. Sec., T. R. M. or E | Blk. and Survey or Area | | | |
| | | | SEC 34 / T18S / R | 25E / NMP | | | |
| 22.70014271 | | <u>, </u> | 12. County or Parish EDDY | 13. State | | | |
| 16. No. of a | cres in lease | 17. Spacin 160 | g Unit dedicated to this | well | | | |
| 19. Proposed | Depth | 20. BLM/ | BIA Bond No. on file | | | | |
| j | |] | MB000215 | | | | |
| 1 | | rt* | 23. Estimated duration 15 days | on | | | |
| 24. Attac | hments | | | | | | |
| re Oil and Gas | Order No.1, must be at | tached to th | is form: | | | | |
| | 4. Bond to cover the Item 20 above). | ne operatio | ns unless covered by an | existing bond on file (see | | | |
| Lands, the | 1 * | | ormation and/or plans as | s may be required by the | | | |
| | | 685-4385 | | Date 05/22/2017 | | | |
| | | | | ····· | | | |
| Name | (Printed/Typed) | | | Date | | | |
| Cody | | 34-5959 | | 03/05/2018 | | | |
| | SBAD | | | | | | |
| ls legal or equi | able title to those righ | ts in the sub | ject lease which would o | entitle the applicant to | | | |
| rime for any po to any matter w | erson knowingly and vithin its jurisdiction. | villfully to n | nake to any department of | or agency of the United | | | |
| | BRILL OF BRILL OF BRILL OF BRILL OF Sir Sir Sh. Phone No. (432)683-7 The State requirements of the second o | AGEMPTEL OR REENTER PRILL OR REENTER Single Zone Multip 3b. Phonc No. (include area code) (432)683-7443 ay State requirements.*) 34 / LONG -104.481067 32.705142 / LONG -104.464085 16. No. of acres in lease 440 19. Proposed Depth 3191 feet / 8120 feet 22. Approximate date work will state 02/01/2018 24. Attachments re Oil and Gas Order No.1, must be all ltem 20 above). Lands, the 4. Bond to cover the ltem 20 above). So Operator certifice 6. Such other site BLM. Name (Printed/Typed) Robyn Odom / Ph: (432) Name (Printed/Typed) Cody Layton / Ph: (575)2 Office CARLSBAD Is legal or equitable title to those righted. | DRILL OR REENTER Single Zone Multiple Zone 3b. Phone No. (include area code) (432)683-7443 sy State requirements.*) 34 / LONG -104.481067 32.705142 / LONG -104.464085 16. No. of acres in lease 440 19. Proposed Depth 3191 feet / 8120 feet FED: NI 22. Approximate date work will start* 02/01/2018 24. Attachments The Oil and Gas Order No.1, must be attached to the lem 20 above). Souch other site specific information of the Such other site specific inform | AGEMPTICEIVED DRILL OR REENTER 7. If Unit or CA Agn 8. Lease Name and MUSTANG 34 FEI 9. API Well No. 30 - 0/ 10. Field and Pool, or PENASCO DRAW 11. Sec., T. R. M. or E 12. County or Parish EDDY 16. No. of acres in lease 17. Spacing Unit dedicated to this 160 19. Proposed Depth 3191 feet / 8120 feet 17. Spacing Unit dedicated to this 160 19. Proposed Depth 3191 feet / 8120 feet 17. Spacing Unit dedicated to this 160 22. Approximate date work will start* 23. Estimated duratic 15 days 24. Attachments 25. Operator certification 26. Such other site specific information and/or plans as BLM. Name (Printed/Typed) Robyn Odom / Ph: (432)685-4385 Name (Printed/Typed) Cody Layton / Ph: (575)234-5959 Office CARLSBAD Is legal or equitable title to those rights in the subject lease which would on the subject lease which would be rime for any person knowingly and willfully to make to any department. | | | |

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 03/05/2018

NSP/NSL Rup 3-20-18

INSTRUCTIONS

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

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

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

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

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

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

NOTICES

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

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

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts. ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

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

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

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

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

(Continued on page 3) (Form 3160-3, page 2)

Additional Operator Remarks

Location of Well

1. SHL: SWNW / 2190 FNL / 150 FWL / TWSP: 18S / RANGE: 25E / SECTION: 34 / LAT: 32.706034 / LONG: -104.481067 (TVD: 0 feet, MD: 0 feet)

PPP: SWNW / 2201 FNL / 330 FWL / TWSP: 18S / RANGE: 25E / SECTION: 34 / LAT: 32.70589 / LONG: -104.479961 (TVD: 2982 feet, MD: 3050 feet)

BHL: SENE / 2310 FNL / 10 FEL / TWSP: 18S / RANGE: 25E / SECTION: 34 / LAT: 32.705142 / LONG: -104.464085 (TVD: 3191 feet, MD: 8120 feet)

BLM Point of Contact

Name: Sipra Dahal

Title: Legal Instruments Examiner

Phone: 5752345983 Email: sdahal@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 listed Bureau of Land Management office for further information.

(Form 3160-3, page 4)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: | COG Operating LLC

LEASE NO.: LC067136

WELL NAME & NO.: | Mustang 34 Federal Com – 24H

SURFACE HOLE FOOTAGE: 2190'/N & 150'/W BOTTOM HOLE FOOTAGE 2310'/N & 10'/E

LOCATION: Section 34, T. 18 S., R. 25 E., NMPM

COUNTY: | Eddy County, New Mexico

| Potash | • None | | ℂ R-111-P |
|----------------------|----------------|--------------------|-----------|
| Cave/Karst Potential | € Low | ← Medium | ← High |
| Variance | • None | r Flex Hose | C Other |
| Wellhead | © Conventional | ← Multibowl | |
| Other | ☐4 String Area | ☐Capitan Reef | □WIPP |

A. Hydrogen Sulfide

1. A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Yates** formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

- 1. The 8 5/8 inch surface casing shall be set at approximately 1250 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.
- 2. The minimum required fill of cement behind the 5 1/2 inch production casing, is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.

C. PRESSURE CONTROL

1. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 2000 (2M) psi. In the case where the only BOP installed is an annular preventer, it shall be tested to a minimum of 2000 psi (which may require upgrading to 3M or 5M annular).

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.

Unorthodox Location:

Operator shall file a NSL (Non Standard Location) application with NMOCD.

MHH 02232018

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 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log.
- 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.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

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

B. PRESSURE CONTROL

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

installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

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

C. DRILLING MUD

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

PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME: COG Operating LLC

LEASE NO.: | LC067136

WELL NAME & NO.: | Mustang 34 Federal Com – 24H

SURFACE HOLE FOOTAGE: 2190'/N & 150'/W BOTTOM HOLE FOOTAGE 2310'/N & 10'/E

LOCATION: | Section 34, T. 18 S., R. 25 E., NMPM

COUNTY: | Eddy County, New Mexico

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

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

I. GENERAL PROVISIONS

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

II. PERMIT EXPIRATION

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

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

IV. NOXIOUS WEEDS

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

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VI. CONSTRUCTION

A. NOTIFICATION

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

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

B. TOPSOIL

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

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

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

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

D. FEDERAL MINERAL MATERIALS PIT

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

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

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

F. EXCLOSURE FENCING (CELLARS & PITS)

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Exclosure Fencing

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

G. ON LEASE ACCESS ROADS

Road Width

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

Surfacing

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

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

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

Crowning

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

Ditching

Ditching shall be required on both sides of the road.

Turnouts

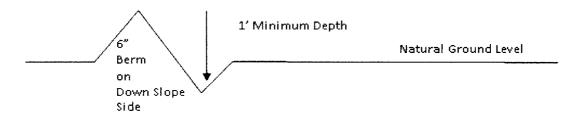
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

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

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

Cross Section of a Typical Lead-off Ditch



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

Formula for Spacing Interval of Lead-off Ditches

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

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

Cattle guards

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

Fence Requirement

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

Public Access

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

Construction Steps

- 1. Salvage topsoil
- 3. Redistribute topsoil
- 2. Construct road 4. Revegetate slopes

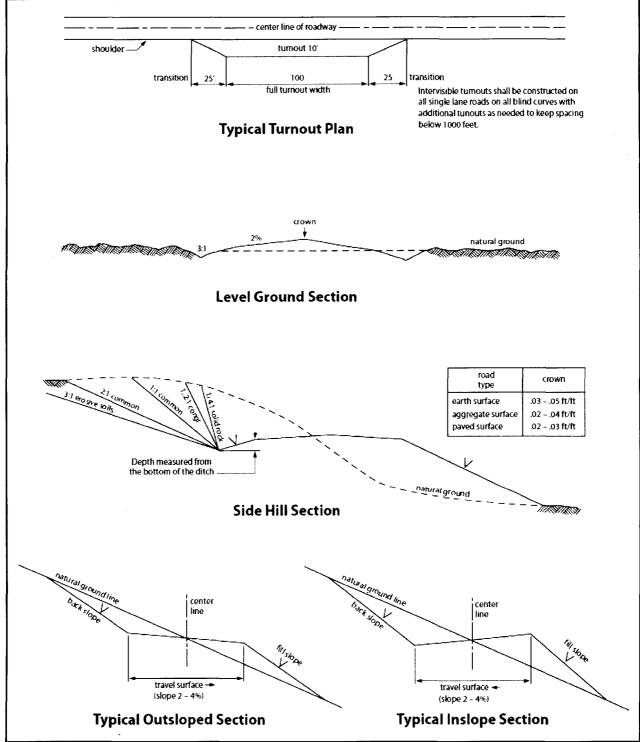


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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

Containment Structures

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

Painting Requirement

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

B. PIPELINES

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

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

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

- 1. Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, Holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC § 2601 et seq. (1982) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant (see 40 CFR, Part 702-799 and in particular, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193). Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. Holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. § 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way Holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way Holder on the Right-of-Way. This provision applies without regard to whether a release is caused by Holder, its agent, or unrelated third

Page 9 of 16

parties.

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

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

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

- 5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of Holder, regardless of fault. Upon failure of Holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he/she deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of Holder. Such action by the Authorized Officer shall not relieve Holder of any responsibility as provided herein.
- 6. All construction and maintenance activity shall be confined to the authorized right-of-way width of 20 feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline shall be installed no farther than 10 feet from the edge of the road or buried pipeline right-of-way. If existing surface pipelines prevent this distance, the proposed surface pipeline shall be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity shall be confined to existing roads or right-of-ways.

Page 10 of 16

- 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 24 inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.
- 10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
- 12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.
- 13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.
- 14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.
- 15. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the authorized officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed

is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the holder.

- 16. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, powerline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.
- 17. Surface pipelines shall be less than or equal to 4 inches and a working pressure below 125 psi.

C. ELECTRIC LINES

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

A copy of the grant and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

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

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

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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. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.
- 5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006. The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.

- 6. 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 the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.
- 8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.
- 9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.

10. 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 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.

11. Special Stipulations:

- For reclamation remove poles, lines, transformer, etc. and dispose of properly.
- Fill in any holes from the poles removed.

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.

Page 14 of 16

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

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

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

Seed Mixture 3, for Shallow Sites

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

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

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

| Species | <u>lb/acre</u> |
|--|----------------|
| Plains Bristlegrass (Setaria macrostachya) | 1.0 |
| Green Sprangletop (Leptochloa dubia) | 2.0 |
| Sideoats Grama (Bouteloua curtipendula) | 5.0 |

^{*}Pounds of pure live seed:

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



NAME: Robyn Odom

Email address:

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



Signed on: 05/22/2017

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.

| Title: Regulatory Analyst | | |
|--------------------------------|-----------|--------------------|
| Street Address: 600 W Illinois | : Ave | |
| City: Midland | State: TX | Zip : 79701 |
| Phone: (432)685-4385 | | |
| Email address: rodom@concl | no.com | |
| Field Representat | tive | |
| Representative Name: | | |
| Street Address: | | |
| City: | State: | Zip: |
| Phone: | | |



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

Application Data Report

APD ID: 10400012866

Submission Date: 05/22/2017

Highlighted data reflects the most

Operator Name: COG OPERATING LLC

Well Name: MUSTANG 34 FEDERAL COM

Well Number: 24H

recent changes

Well Type: OIL WELL

Show Final Text

Well Work Type: Drill

Section 1 - General

APD ID:

10400012866

Tie to previous NOS? 10400008753

Submission Date: 05/22/2017

BLM Office: CARLSBAD

User: Robyn Odom

Title: Regulatory Analyst

Federal/Indian APD: FED

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

Lease number: NMLC067136

Lease Acres: 440

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? NO

Permitting Agent? NO

APD Operator: COG OPERATING LLC

Operator letter of designation:

Operator Info

Operator Organization Name: COG OPERATING LLC

Operator Address: 600 West Illinois Ave

Operator PO Box:

Zip: 79701

Operator City: Midland

State: TX

Operator Phone: (432)683-7443

Operator Internet Address: RODOM@CONCHO.COM

Section 2 - Well Information

Well in Master Development Plan? NO

Mater Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: MUSTANG 34 FEDERAL COM

Well Number: 24H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: PENASCO DRAW

Pool Name: SA-YESO

(ASSOC)

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

Weil Name: MUSTANG 34 FEDERAL COM Well Number: 24H

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: Number: 4

MUSTANG 34 FEDERAL COM

Well Class: HORIZONTAL

Number of Legs: 1

Well Work Type: Drill
Well Type: OIL WELL
Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: 5.76 Miles Distance to nearest well: 120 FT Distance to lease line: 10 FT

Reservoir well spacing assigned acres Measurement: 160 Acres

Well plat: Mustang_34_Federal_Com_24H_C102_05-12-2017.pdf

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 | 219 | FNL | 150 | FWL | 18S | 25E | 34 | Aliquot | 32.70603 | - | EDD | NEW | NEW | F | NMLC0 | 353 | 0 | 0 |
| Leg | 0 | | | | | | | SWN | 4 | 104.4810 | Y | l . | MEXI | | 67136 | 3 | | |
| #1 | | | | | | | | W | | 67 | | СО | СО | | | | | |
| KOP | 219 | FNL | 150 | FWL | 18S | 25E | 34 | Aliquot | 32.70592 | - | EDD | NEW | NEW | F | NMLC0 | 945 | 258 | 258 |
| Leg | 0 | | | | | | | SWN | 1 | 104.4805 | Υ | | MEXI | | 67136 | | 8 | 8 |
| #1 | | | | | | | | W | | 46 | | CO | co | | | | | |
| PPP | 220 | FNL | 330 | FWL | 18S | 25E | 34 | Aliquot | 32.70589 | - | EDD | NEW | NEW | F | NMLC0 | 551 | 305 | 298 |
| Leg | 1 | | | | | | | SWN | | 104.4799 | Υ | MEXI | MEXI | | 67136 | | 0 | 2 |
| #1 | | | | | | | | w | | 61 | | co | со | | | | | |



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

Drilling Plan Data Report 03/12/2018

APD ID: 10400012866

Submission Date: 05/22/2017

Highlighted data reflects the most

Operator Name: COG OPERATING LLC
Well Name: MUSTANG 34 FEDERAL COM

Well Number: 24H

recent changes

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

| Formation | | | True Vertical | Measured | | | Producing |
|-----------|----------------|-----------|---------------|----------|---------------------|-------------------|-----------|
| [ID | Formation Name | Elevation | Depth | Depth | Lithologies | Mineral Resources | Formation |
| 1 | UNKNOWN | 3533 | 0 | 0 | ALLUVIUM | USEABLE WATER | No |
| 2 | QUEEN | 3323 | 210 | 210 | SANDSTONE | NATURAL GAS,OIL | No |
| 3 | GRAYBURG | 3133 | 400 | 400 | DOLOMITE,SILTSTONE | NATURAL GAS,OIL | No |
| 4 | SAN ANDRES | 2813 | 720 | 720 | DOLOMITE | NATURAL GAS,OIL | No |
| 5 | GLORIETA | 1383 | 2150 | 2150 | SILTSTONE | NATURAL GAS,OIL | No |
| 6 | PADDOCK | 1333 | 2200 | 2200 | DOLOMITE | NATURAL GAS,OIL | No |
| 7 | BLINEBRY | 783 | 2750 | 2750 | DOLOMITE, SILTSTONE | NATURAL GAS,OIL | Yes |
| 8 | TUBB | -367 | 3900 | 3900 | LIMESTONE | NATURAL GAS,OIL | No |

Section 2 - Blowout Prevention

Pressure Rating (PSI): 2M

Rating Depth: 9500

Equipment: All required equipment per Federal and State regulations to be in place prior to drilling out the Surface casing.

Requesting Variance? NO

Variance request:

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure of 2000 psi per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure of 2000 psi. If the system is upgraded all the components installed will be functional and tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.

Choke Diagram Attachment:

2M Choke Schematic 05-12-2017.pdf

BOP Diagram Attachment:

2M ANNULAR BOP_05-12-2017.pdf

Well Name: MUSTANG 34 FEDERAL COM

Well Number: 24H

2M_Choke_Schematic_05-12-2017.pdf

2M_ANNULAR_BOP_05-12-2017.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 | 11 | 8.625 | NEW | API | N | 0 | 1250 | 0 | 1250 | | | 1250 | J-55 | 32 | LTC | 4.7 | 3.25 | DRY | 12.4 | DRY | 12.4 |
| 2 | PRODUCTI ON | 7.87 5 | 5.5 | NEW | API | N | 0 | 8120 | 0 | 3191 | | | 8120 | L-80 | 17 | LTC | 4.34 | 1.33 | DRY | 7.65 | DRY | 7.65 |

Casing Attachments

Casing ID: 1

String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Attachement_05-12-2017.pdf

Well Name: MUSTANG 34 FEDERAL COM

Well Number: 24H

Casing Attachments

Casing ID: 2

String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Attachement_05-12-2017.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 | 1250 | 300 | 1.75 | 13.5 | 525 | | Class C | 4% gel, 2% CaCl2+ 0.25 pps CF |
| SURFACE | Tail | | | | 200 | 1.32 | 14.8 | 264 | 148 | Class C | 2% CaCl2+ 0.25 pps CF |
| PRODUCTION | Lead | | 0 | 8120 | 300 | 2.01 | 12.5 | 603 | | 35:65:6 C:Poz:Gel | 5%Salt+5pps LCM+0.25pps CF |
| PRODUCTION | Tail | | | | 850 | 1.37 | 14 | 1164. 5 | 30 | 50:50:2 C:Poz:Gel | 5%salt+3pps LCM+0.6%SMS+1%FL- 25+1%Ba-58+0.125pps |

Well Name: MUSTANG 34 FEDERAL COM Well Number: 24H

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: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

Circulating Medium Table

| o Top Depth | Bottom Depth | ed Lybe WATER-BASED | α 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 | |
|-------------|--------------|------------------------|------------------------|----------------------|---------------------|-----------------------------|----|----------------|----------------|-----------------|----------------------------|--|
| | 0120 | MUD | 0.0 | 0.2 | | | | | | | | |
| 0 | 1250 | WATER-BASED MUD | 8.6 | 8.8 | | | | | | | | |

Section 6 - Test, Logging, Coring

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

Interval Perforating, Fracture stimulating, Flowback testing

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

CNL, MUDLOG

Coring operation description for the well:

N/A

Well Name: MUSTANG 34 FEDERAL COM Well Number: 24H

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 550

Anticipated Surface Pressure: -152.02

Anticipated Bottom Hole Temperature(F): 75

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:

H2S_Plan_05-15-2017.pdf
Mustang_34_Federal_Com_24H_H2S_Diagram_05-15-2017.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Mustang_34_Federal_Com_24H_Design_1_Rpt_05-12-2017.pdf

Other proposed operations facets description:

An NSL has been submitted to complete this well at 100' from the East section line.

Other proposed operations facets attachment:

Closed_Loop_Schematic_05-12-2017.pdf

Mustang_34_Fed_Com_24H_Prod_Cmt_Breakdown_05-15-2017.pdf

Mustang_34_Fed_Com_24H_Contingent_Multi_Stage_Cmt_Plan_06-28-2017.pdf

Mustang_34_Federal_Com_24H_GCP_06-28-2017.pdf

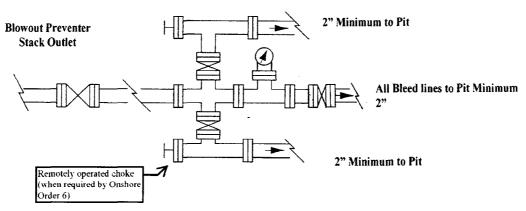
Other Variance attachment:

COG Operating LLC

Exhibit #9 Choke Schematic

Choke Manifold Requirement (2000 psi WP)

Adiustable Choke



Adjustable Choke

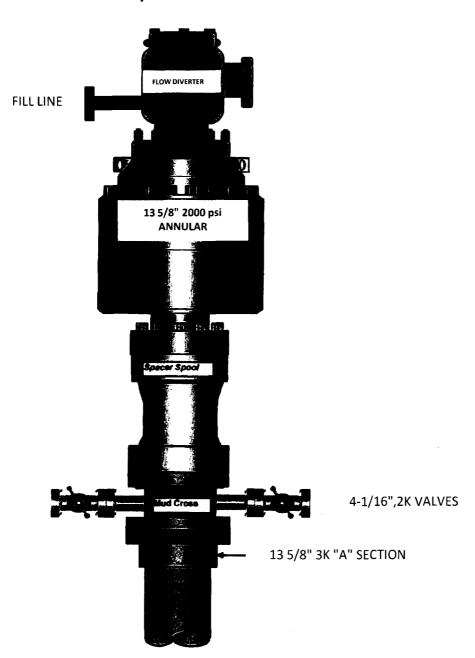
NOTES REGARDING THE BLOWOUT PREVENTERS

Master Drilling Plan Eddy County, New Mexico

- 1. Drilling nipple to be so constructed that it can be removed without use of a welder through rotary table opening, with minimum I.D. equal to preventer bore.
- 2. Wear ring to be properly installed in head.
- 3. Blow out preventer and all fittings must be in good condition, 2000 psi WP minimum.
- 4. All fittings to be flanged.
- 5. Safety valve must be available on rig floor at all times with proper connections, valve to be full 2000 psi WP minimum.
- 6. All choke and fill lines to be securely anchored especially ends of choke lines.
- 7. Equipment through which bit must pass shall be at least as large as the diameter of the easing being drilled through.
- 8. Kelly cock on Kelly.
- 9. Extension wrenches and hands wheels to be properly installed.
- 10. Blow out preventer control to be located as close to driller's position as feasible.
- 11. Blow out preventer closing equipment to include minimum 40-gallon accumulator, two independent sources of pump power on each closing unit installation all API specifications.

Exhibit #10

13 5/8" 2K ANNULAR



Casing Program

| | Collapse SF | Burst SF | Tension SF |
|-----------------------------|-------------|----------|------------|
| DI NA NAILLIAN COFET FORTON | 1 125 | | 1.6 Dry |
| BLM Minimum Safety Factor | 1.125 | 1 | 1.8 Wet |

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Assumed 9.0ppg MW equivalent pore pressure from 9 5/8" shoe to deepest TVD in wellbore.

BLM standard formulas were used on all SF calculations.

Casing design does meet and/or exceed BLM's minimum standards.

The pipe will be kept at a minimum 1/3 fluid fill to avoid approaching the collapse pressure rating of the casing.

This well is not located within the Capitan Reef.

This well is not located in the SOPA or in the R-111-P.

This well is not located in a high or critical Cave/Karst area.

This is not a walking operation.

We will not be pre-setting casing.

All completion intervals are planned to be fracture stimulated.

Casing Program

| | Collapse SF | Burst SF | Tension SF |
|----------------------------|-------------|----------|------------|
| DINA NAinimum Cafatu Faata | 1 125 | 1 | 1.6 Dry |
| BLM Minimum Safety Factor | 1.125 | 1 | 1.8 Wet |

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

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Casing design does meet and/or exceed BLM's minimum standards.

The pipe will be kept at a minimum 1/3 fluid fill to avoid approaching the collapse pressure rating of the casing.

This well is not located within the Capitan Reef.

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This well is not located in a high or critical Cave/Karst area.

This is not a walking operation.

We will not be pre-setting casing.

All completion intervals are planned to be fracture stimulated.

COG Operating LLC

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- 1. The hazards an characteristics of hydrogen sulfide (H2S)
- 2. The proper use and maintenance of personal protective equipment and life support systems.
- 3. The proper use of H2S detectors alarms warning systems, briefing areas, evacuation procedures, and prevailing winds.
- 4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- 1. The effects of H2S on metal components. If high tensile tubular are to be used, personnel well be trained in their special maintenance requirements.
- 2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- 3. The contents and requirements of the H2S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H2S zone (within 3 days or 500 feet) and weekly H2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H2S Drilling Operations Plan and the Public Protection Plan. The concentrations of H2S of wells in this area from surface to TD are low enough that a contingency plan is not required.

II. H2S SAFETY EQUIPMENT AND SYSTEMS

Note: All H2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonable expected to contain H2S.

1. Well Control Equipment:

- A. Flare line.
- B. Choke manifold with minimum of one remotely operated choke.
- C. Closed Loop Blow Down Tank
- D. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
- E. Auxiliary equipment may include if applicable: mud-gas separator, annular preventer & rotating head.

2. Protective equipment for essential personnel:

A. SCBA (Self contained breathing apparatus) 30-minute units located in the doghouse and at briefing areas, as indicated on well site diagram.

3. H2S detection and monitoring equipment:

A. Portable H2S monitors positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 PPM are reached.

4. Visual warning systems:

- A. Wind direction indicators as shown on well site diagram.
- B. Caution/Danger signs (Exhibit #7) shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.

5. Mud program:

A. The mud program has been designed to minimize the volume of H2S circulated to surface. Proper mud weight, safe drilling practices, and the use of H2S scavengers will minimize hazards when penetrating H2S bearing zones.

6. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
- B. All elastomers used for packing and seals shall be H2S trim.

7. Communication:

- A. Radio communications in company vehicles including cellular telephone and 2-way radio.
- B. Land line (telephone) communication at Office.

8. Well testing:

- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safely and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H2S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

EXHIBIT #7

WARNING YOU ARE ENTERING AN H₂S

AUTHORIZED PERSONNEL ONLY

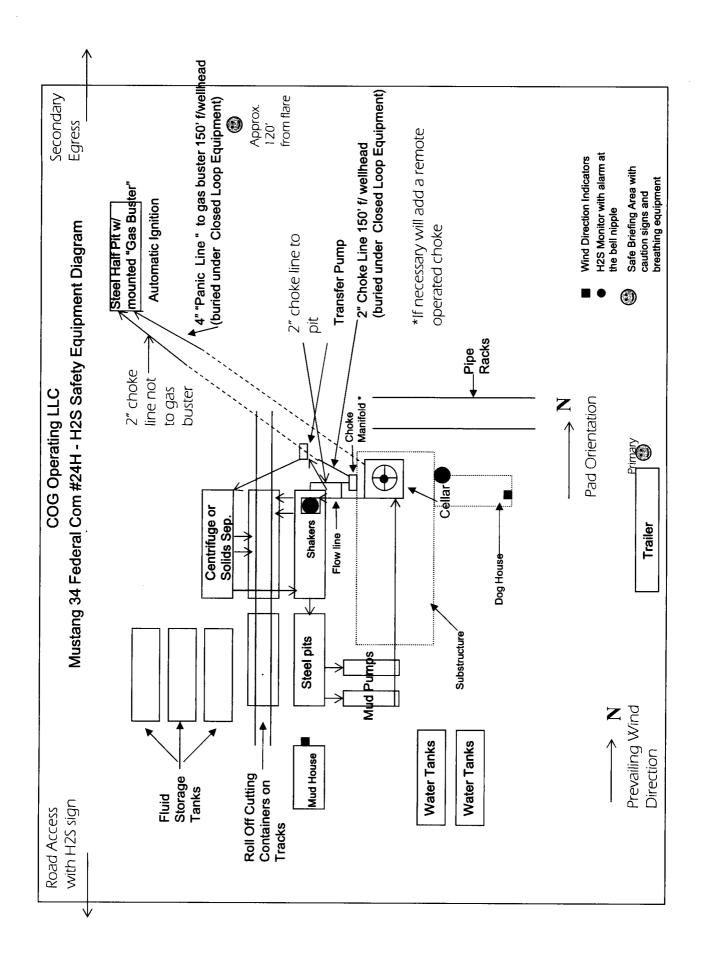
- 1. BEARDS OR CONTACT LENSES NOT ALLOWED
- 2. HARD HATS REQUIRED
- 3. SMOKING IN DESIGNATED AREAS ONLY
- 4. BE WIND CONSCIOUS AT ALL TIMES
- 5. CHECK WITH COG OPERATING FOREMAN AT

COG OPERATING LLC 1-432-683-7443 1-575-746-2010

EDDY COUNTY EMERGENCY NUMBERS

ARTESIA FIRE DEPT. 575-746-5050 ARTESIA POLICE DEPT. 575-746-5000 EDDY CO. SHERIFF DEPT. 575-746-9888 LEA COUNTY EMERGENCY NUMBERS

HOBBS FIRE DEPT. 575-397-9308 HOBBS POLICE DEPT. 575-397-9285 LEA CO. SHERIFF DEPT. 575-396-1196





COG Operating LLC

Eddy County, NM (NAD-27 2015) Mustang 34 Federal Com #24H

SHL: 2190' FNL, 150' FWL, Sec 34, T18S, R25E, Unit E PP: 2196' FNL, 330' FWL, Sec 34, T18S, R25E, Unit E BHL: 2310' FNL, 10' FEL, Sec 34, T18S, R25E, Unit H

Plan: Design #1

Standard Planning Report

08 May, 2017





TVD Reference:

MD Reference:

North Reference:

Local Co-ordinate Reference:

Survey Calculation Method:



Database: Company: EDM 5000.1 Single User Db

COG Operating LLC

Project:

Eddy County, NM (NAD-27 2015) Mustang 34 Federal Com #24H

Site: Well:

SHL: 2190' FNL, 150' FWL, Sec 34, T18S,

R25E, Unit E

Wellbore:

BHL: 2310' FNL, 10' FEL, Sec 34, T18S,

R25E, Unit H

Design:

Design #1

Project

Eddy County, NM (NAD-27 2015)

Map System: Geo Datum:

US State Plane 1927 (Exact solution) NAD 1927 (NADCON CONUS)

Map Zone:

New Mexico East 3001

Mustang 34 Federal Com #24H

Site Position:

Мар

Northing: Easting:

620,556.40 usft

System Datum:

454,718.00 usft

Latitude:

Longitude:

32° 42' 21.315 N 104° 28' 49.965 W

Position Uncertainty:

0.00 usft Slot Radius: 13.20 in

Grid Convergence:

-0.08°

Well

Site

From:

SHL: 2190' FNL, 150' FWL, Sec 34, T18S, R25E, Unit E

Well Position

+N/-S +E/-W 0.00 usft 0.00 usft

0.00 usft

Easting:

Northing:

620,556.40 usft 454,718.00 usft Latitude: Longitude:

32° 42' 21,315 N 104° 28' 49.965 W

Position Uncertainty

Wellhead Elevation:

0.00 usft

Ground Level:

3,533.00 usft

Wellbore

BHL: 2310' FNL, 10' FEL, Sec 34, T18S, R25E, Unit H

Magnetics

Model Name

Sample Date

Declination (°)

Dip Angle (°)

Field Strength

Site Mustang 34 Federal Com #24H

KB @ 3551.00usft (Patriot 6)

KB @ 3551.00usft (Patriot 6)

Minimum Curvature

Mean Sea Level

Grid

(nT)

IGRF2015

5/8/2017

7.42

60.36

48,135

Design

Design #1

Audit Notes:

Version:

Phase:

PLAN

Tie On Depth:

0.00

Depth From (TVD)

+N/-S

+E/-W

Vertical Section:

(usft) 0.00

(usft) 0.00

(usft) 0.00

Direction (°) 93.63

Plan Sections

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|------------------------------|-----------------------------|------------|-----------------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,588.14 | 0.00 | 0.00 | 2,588.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3,397.23 | 89.00 | 93.63 | 3,108.93 | -32.38 | 510.75 | 11.00 | 11.00 | 11.57 | 93.63 | |
| 8,119.55 | 89.00 | 93.63 | 3,191.35 | -331.10 | 5,222.90 | 0.00 | 0.00 | 0.00 | 0.00 PE | HL (M34FC#24H/L |



TVD Reference:

North Reference:

MD Reference:



Database: Company: EDM 5000.1 Single User Db

COG Operating LLC

Project:

Eddy County, NM (NAD-27 2015) Mustang 34 Federal Com #24H

Site: Well:

SHL: 2190' FNL, 150' FWL, Sec 34, T18S,

R25E, Unit E

Wellbore:

BHL: 2310' FNL, 10' FEL, Sec 34, T18S,

R25E, Unit H

Design:

Design #1

Survey Calculation Method:

Local Co-ordinate Reference:

Site Mustang 34 Federal Com #24H

KB @ 3551.00usft (Patriot 6) KB @ 3551.00usft (Patriot 6)

Grid

Minimum Curvature

Planned Survey

| Measured Depth | Inclination | Azimuth | Vertical Depth | +N/-S | +E/-W | Vertical Section | Dogleg Rate | Build Rate | Turn Rate |
|-------------------|-------------------|---------|-------------------|----------------|----------|---------------------|----------------|---------------|--------------|
| (usft) | (°) | (°) | (usft) | (usft) | (usft) | (usft) | (°/100usft) | (°/100usft) | (°/100usft) |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 0.00 | 0.00 | 100,00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 400.00 | 0.00 | 0.00 | 400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 500.00 | 0.00 | 0.00 | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 600.00 | 0.00 | 0.00 | 600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 700.00 | 0.00 | 0.00 | 700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 800.00 | 0.00 | 0.00 | 800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 900.00 | 0.00 | 0.00 | 900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,000.00 | 0.00 | 0.00 | 1,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,100.00 | 0.00 | 0.00 | 1,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,200.00 | 0.00 | 0.00 | 1,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,300.00 | 0.00 | 0.00 | 1,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,400.00 | 0.00 | 0.00 | 1,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,500.00 | 0.00 | 0.00 | 1,500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,600.00 | 0.00 | 0.00 | 1,600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,700.00 | 0.00 | 0.00 | 1,700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,800.00 | 0.00 | 0.00 | 1,800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,900.00 | 0.00 | 0.00 | 1,900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,000.00 | 0.00 | 0.00 | 2,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,100.00 | 0.00 | 0.00 | 2,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,200.00 | 0.00 | 0.00 | 2,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,300.00 | 0.00 | 0.00 | 2,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,400.00 | 0.00 | 0.00 | 2,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,500.00 | 0.00 | 0.00 | 2,500,00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,588.14 | 0.00 | 0.00 | 2,588.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Start DLS 11 | .00 TFO 93.63 | | | | | | | | |
| 2,600.00 | 1.30 | 93.63 | 2,600.00 | -0.01 | 0.13 | 0.14 | 11.00 | 11.00 | 0.00 |
| 2,650.00 | 6.80 | 93.63 | 2,649.85 | -0.23 | 3.66 | 3.67 | 11.00 | 11.00 | 0.00 |
| 2,700.00 | 12.30 | 93.63 | 2,699.14 | -0.76 | 11.94 | 11.97 | 11.00 | 11.00 | 0.00 |
| 2,750.00 | 17.80 | 93.63 | 2,747.41 | -1.58 | 24.90 | 24.95 | 11.00 | 11.00 | 0.00 |
| 2,800.00 | 23.30 | 93.63 | 2,794.21 | -2.69 | 42.41 | 42.50 | 11.00 | 11.00 | 0.00 |
| 2,850.00 | 28.80 | 93.63 | 2,839.11 | -4 .08 | 64.32 | 64.45 | 11.00 | 11.00 | 0.00 |
| 2,900.00 | 34.30 | 93.63 | 2,881.70 | - 5.73 | 90.42 | 90.60 | 11.00 | 11.00 | 0.00 |
| 2,950.00 | 39.80 | 93.63 | 2,921.59 | -7.64 | 120.48 | 120.72 | 11.00 | 11.00 | 0.00 |
| 3,000.00 | 45.30 | 93.63 | 2,958.40 | -9.78 | 154.21 | 154,52 | 11.00 | 11.00 | 0.00 |
| 3,050.00 | 50.80 | 93.63 | 2,991.81 | -12.13 | 191.31 | 191.70 | 11.00 | 11.00 | 0.00 |
| 3,100.00 | 56.30 | 93.63 | 3,021.50 | -14.67 | 231.44 | 231.90 | 11.00 | 11.00 | 0.00 |
| 3,150.00 | 61.80 | 93.63 | 3,047.20 | -17.38 | 274.22 | 274.77 | 11.00 | 11.00 | 0.00 |
| 3,200.00 | 67.30 | 93.63 | 3,068.68 | -20.24 | 319.26 | 319.90 | 11.00 | 11.00 | 0.00 |
| 3,250.00 | 72.80 | 93.63 | 3,085.73 | -23.21 | 366.15 | 366.89 | 11.00 | 11.00 | 0.00 |
| 3,300.00 | 78.30 | 93.63 | 3,098.20 | -26.27 | 414.45 | 415.29 | 11.00 | 11.00 | 0.00 |
| 3,350.00 | 83.80 | 93.63 | 3,105.97 | -29.40 | 463.73 | 464.66 | 11.00 | 11.00 | 0.00 |
| 3,397.23 | 89.00 | 93.63 | 3,108.93 | -32.38 | 510.75 | 511.78 | 11.00 | 11.00 | 0.00 |
| | 2 hold at 3397.23 | | | | | | | | |
| 3,400.00 | 89.00 | 93.63 | 3,108.98 | -32.55 | 513.52 | 514.55 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 89.00 | 93.63 | 3,110.73 | -38.88 | 613.30 | 614.53 | 0.00 | 0.00 | 0.00 |
| 3,600.00 | 89.00 | 93.63 | 3,112.47 | -45.21 | 713.09 | 714.52 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 89.00 | 93.63 | 3,114.22 | - 51.53 | 812.87 | 814.50 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 89.00 | 93.63 | 3,115.96 | - 57.86 | 912.66 | 914.49 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 89.00 | 93.63 | 3,117.71 | -64.18 | 1,012.44 | 1,014.47 | 0.00 | 0.00 | 0.00 |





Database: Company: EDM 5000.1 Single User Db

COG Operating LLC

Project: Site: Eddy County, NM (NAD-27 2015) Mustang 34 Federal Com #24H

Well:

SHL: 2190' FNL, 150' FWL, Sec 34, T18S,

R25E, Unit E

Wellbore:

BHL: 2310' FNL, 10' FEL, Sec 34, T18S,

R25E, Unit H

Design:

Design #1

Planned Survey

Local Co-ordinate Reference: TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Site Mustang 34 Federal Com #24H

KB @ 3551.00usft (Patriot 6) KB @ 3551.00usft (Patriot 6)

Grid

Minimum Curvature

| Measured Depth | Inclination | Azimuth | Vertical Depth | +N/-S | +E/-W | Vertical Section | Dogleg Rate | Build Rate | Turn Rate |
|-------------------|-------------|---------|-------------------|-----------------|----------|---------------------|----------------|---------------|--------------|
| (usft) | (°) | (°) | (usft) | (usft) | (usft) | (usft) | (°/100usft) | (°/100usft) | (°/100usft) |
| 4,000.00 | 89.00 | 93.63 | 3,119.45 | -70.51 | 1,112.22 | 1,114.46 | 0.00 | 0.00 | 0.0 |
| 4,100.00 | 89.00 | 93.63 | 3,121.20 | -76.83 | 1,212.01 | 1,214.44 | 0.00 | 0.00 | 0.0 |
| 4,200.00 | 89.00 | 93.63 | 3,122.94 | -83.16 | 1,311.79 | 1,314.43 | 0.00 | 0.00 | 0.0 |
| 4,300.00 | 89.00 | 93.63 | 3,124.69 | -89.49 | 1,411.58 | 1,414.41 | 0.00 | 0.00 | 0.0 |
| 4,400.00 | 89.00 | 93.63 | 3,126.43 | -95.81 | 1,511.36 | 1,514.40 | 0.00 | 0.00 | 0.0 |
| 4,500.00 | 89.00 | 93.63 | 3,128.18 | -102.14 | 1,611.15 | 1,614.38 | 0.00 | 0.00 | 0.0 |
| 4,600.00 | 89.00 | 93.63 | 3,129.92 | -108.46 | 1,710.93 | 1,714.37 | 0.00 | 0.00 | 0.0 |
| 4,700.00 | 89.00 | 93.63 | 3,131.67 | -114.79 | 1,810.72 | 1,814.35 | 0.00 | 0.00 | 0.0 |
| 4,800.00 | 89.00 | 93.63 | 3,133.41 | -121.11 | 1,910.50 | 1,914.34 | 0.00 | 0.00 | 0.0 |
| 4,900.00 | 89.00 | 93.63 | 3,135.16 | -127.44 | 2,010.29 | 2,014.32 | 0.00 | 0.00 | 0.0 |
| 5,000.00 | 89.00 | 93.63 | 3,136.90 | -133.77 | 2,110.07 | 2,114.31 | 0.00 | 0.00 | 0.0 |
| 5,100.00 | 89.00 | 93.63 | 3,138.65 | -140.09 | 2,209.85 | 2,214.29 | 0.00 | 0.00 | 0.0 |
| 5,200.00 | 89.00 | 93.63 | 3,140.40 | -146.42 | 2,309.64 | 2,314.27 | 0.00 | 0.00 | 0.0 |
| 5,300.00 | 89.00 | 93.63 | 3,142.14 | -152.74 | 2,409.42 | 2,414.26 | 0.00 | 0.00 | 0.0 |
| 5,400.00 | 89.00 | 93.63 | 3,143.89 | -159.07 | 2,509.21 | 2,514.24 | 0.00 | 0.00 | 0.0 |
| 5,500.00 | 89.00 | 93.63 | 3,145.63 | -165.39 | 2,608.99 | 2,614.23 | 0.00 | 0.00 | 0.0 |
| 5,600.00 | 89.00 | 93.63 | 3,147.38 | -171.72 | 2,708.78 | 2,714.21 | 0.00 | 0.00 | 0.0 |
| 5,700.00 | 89.00 | 93.63 | 3,149.12 | -178.05 | 2,808.56 | 2,814.20 | 0.00 | 0.00 | 0.0 |
| 5,800.00 | 89.00 | 93.63 | 3,150.87 | -184.37 | 2,908.35 | 2,914.18 | 0.00 | 0.00 | 0.0 |
| 5,900.00 | 89.00 | 93.63 | 3,152.61 | -190.70 | 3,008.13 | 3,014.17 | 0.00 | 0.00 | 0.0 |
| 6,000.00 | 89.00 | 93.63 | 3.154.36 | -197.02 | 3,107.91 | 3,114.15 | 0.00 | 0.00 | 0.0 |
| 6,100.00 | 89.00 | 93.63 | 3,156.10 | -203.35 | 3,207.70 | 3,214.14 | 0.00 | 0.00 | 0.0 |
| 6,200.00 | 89.00 | 93.63 | 3,157.85 | -209.67 | 3,307.48 | 3,314.12 | 0.00 | 0.00 | 0.0 |
| 6,300.00 | 89.00 | 93.63 | 3,159.59 | -216.00 | 3,407.27 | 3,414.11 | 0.00 | 0.00 | 0.0 |
| 6,400.00 | 89.00 | 93.63 | 3,161.34 | -222.33 | 3,507.05 | 3,514.09 | 0.00 | 0.00 | 0.0 |
| 6,500.00 | 89.00 | 93.63 | 3,163.08 | -228.65 | 3,606.84 | 3,614.08 | 0.00 | 0.00 | 0.0 |
| 6,600.00 | 89.00 | 93.63 | 3,164.83 | - 234.98 | 3,706.62 | 3,714.06 | 0.00 | 0.00 | 0.0 |
| 6,700.00 | 89.00 | 93.63 | 3,166.57 | -241.30 | 3,806.41 | 3,814.05 | 0.00 | 0.00 | 0.0 |
| 6,800.00 | 89.00 | 93.63 | 3,168.32 | -247.63 | 3,906.19 | 3,914.03 | 0.00 | 0.00 | 0.0 |
| 6,900.00 | 89.00 | 93.63 | 3,170.07 | -253.95 | 4,005.97 | 4,014.02 | 0.00 | 0.00 | 0.0 |
| 7,000.00 | 89.00 | 93.63 | 3,171.81 | -260.28 | 4,105.76 | 4,114.00 | 0.00 | 0.00 | 0.0 |
| 7,100.00 | 89.00 | 93.63 | 3,173.56 | -266.61 | 4,205.54 | 4,213.99 | 0.00 | 0.00 | 0.0 |
| 7,200.00 | 89.00 | 93.63 | 3,175.30 | -272.93 | 4,305.33 | 4,313.97 | 0.00 | 0.00 | 0.0 |
| 7,300.00 | 89.00 | 93.63 | 3,177.05 | -279.26 | 4,405.11 | 4,413.96 | 0.00 | 0.00 | 0.0 |
| 7,400.00 | 89.00 | 93.63 | 3,178.79 | -285.58 | 4,504.90 | 4,513.94 | 0.00 | 0.00 | 0.0 |
| 7,500.00 | 89.00 | 93.63 | 3,180.54 | -291.91 | 4,604.68 | 4,613.92 | 0.00 | 0.00 | 0.0 |
| 7,600.00 | 89.00 | 93.63 | 3,182.28 | -298.23 | 4,704.47 | 4,713.91 | 0.00 | 0.00 | 0.0 |
| 7,700.00 | 89.00 | 93.63 | 3,184.03 | -304.56 | 4,804.25 | 4,813.89 | 0.00 | 0.00 | 0.0 |
| 7,800.00 | 89.00 | 93.63 | 3,185.77 | -310.89 | 4,904.03 | 4,913.88 | 0.00 | 0.00 | 0.0 |
| 7,900.00 | 89.00 | 93.63 | 3,187.52 | -317.21 | 5,003.82 | 5,013.86 | 0.00 | 0.00 | 0.0 |
| 8,000.00 | 89.00 | 93.63 | 3,189.26 | -323.54 | 5,103.60 | 5,113.85 | 0.00 | 0.00 | 0.0 |
| 8,100.00 | 89.00 | 93.63 | 3,191.01 | - 329.86 | 5,203.39 | 5,213.83 | 0.00 | 0.00 | 0.0 |
| 8,119.55 | 89.00 | 93.63 | 3,191.35 | -331.10 | 5,222.90 | 5,233.38 | 0.00 | 0.00 | 0.0 |
| TD at 8119.55 | 5 | | | | | | | | |





Database:

EDM 5000.1 Single User Db

Company:

COG Operating LLC

Project:

Eddy County, NM (NAD-27 2015) Mustang 34 Federal Com #24H

Site: Well:

SHL: 2190' FNL, 150' FWL, Sec 34, T18S,

R25E, Unit E

Wellbore:

BHL: 2310' FNL, 10' FEL, Sec 34, T18S,

R25E, Unit H

Design:

Design #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Site Mustang 34 Federal Com #24H

KB @ 3551.00usft (Patriot 6) KB @ 3551.00usft (Patriot 6)

Grid

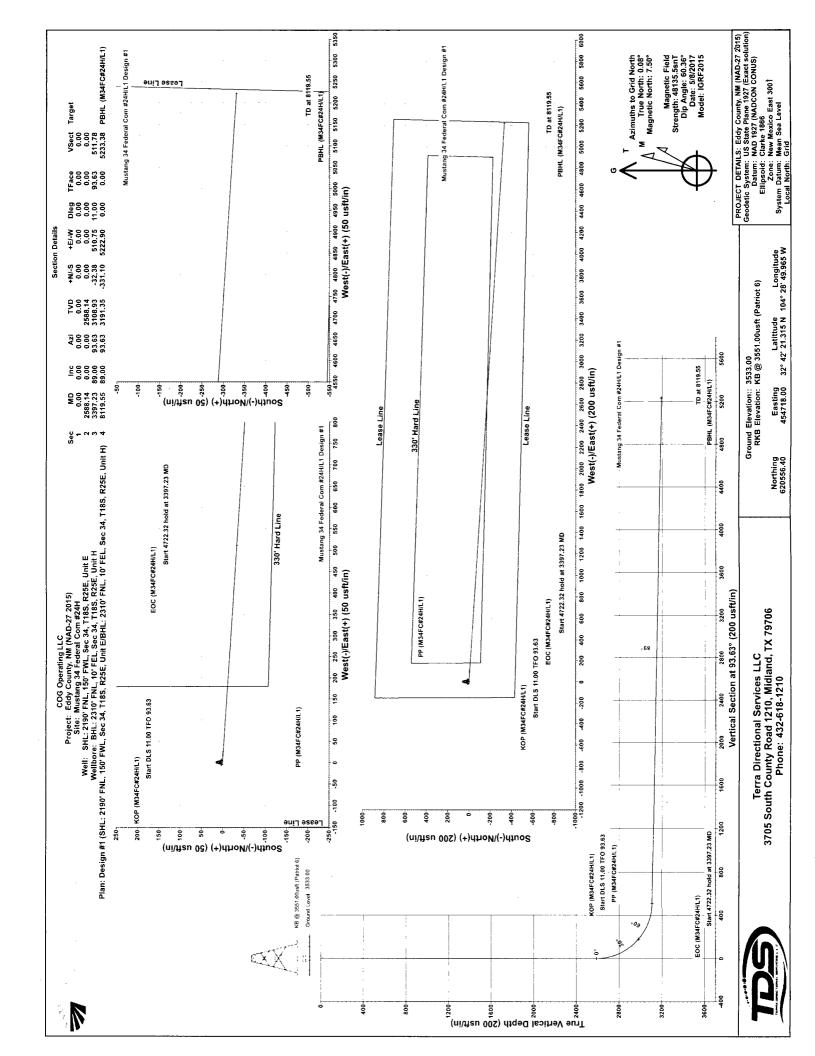
Minimum Curvature

Design Targets

| Target Name - hit/miss target | Dip Angle | Dip Dir. | TVD | +N/-S | +E/-W | Northing | Easting | | |
|---|-------------|----------|----------|---------|----------|------------|------------|------------------|-------------------|
| - Shape | (°) | (°) | (usft) | (usft) | (usft) | (usft) | (usft) | Latitude | Longitude |
| KOP (M34FC#24H/L1) - plan hits target cent - Point | 0.00 ter | 360.00 | 2,588.14 | 0.00 | 0.00 | 620,556.40 | 454,718.00 | 32° 42′ 21.315 N | 104° 28' 49.965 W |
| PP (M34FC#24H/L1) - plan hits target cent - Point | 0.00 ter | 0.00 | 2,982.13 | -11.40 | 179.80 | 620,545.01 | 454,897.80 | 32° 42′ 21.204 N | 104° 28′ 47.860 W |
| EOC (M34FC#24H/L1) - plan hits target cent - Point | 0.00 ter | 0.00 | 3,108.93 | -32.38 | 510.75 | 620,524.03 | 455,228.75 | 32° 42′ 21.001 N | 104° 28' 43.986 W |
| PBHL (M34FC#24H/L1) - plan hits target cent - Point | 0.00 ter | 0.00 | 3,191.35 | -331.10 | 5,222.90 | 620,225.30 | 459,940.90 | 32° 42' 18.106 N | 104° 27′ 48.833 W |

Plan Annotations

| Measured | Vertical | Local Coord | dinates | |
|-----------------|-----------------|-----------------|-----------------|----------------------------------|
| Depth (usft) | Depth (usft) | +N/-S (usft) | +E/-W (usft) | Comment |
| 2,588.14 | 2,588.14 | 0.00 | 0.00 | Start DLS 11.00 TFO 93.63 |
| 3,397.23 | 3,108.93 | -11.40 | 179.80 | Start 4722.32 hold at 3397.23 MD |
| 8,119.55 | 3,191.35 | -32.38 | 510.75 | TD at 8119.55 |



Closed Loop Operation & Maintenance Procedure

All drilling fluid circulated over shaker(s) with cuttings discharged into roll off container.

Fluid and fines below shaker(s) are circulated with transfer pump through centrifuge(s) or solids separator with cuttings and fines discharged into roll off container.

Fluid is continuously re-circulated through equipment with polymer added to aid separation of cutting fines.

Roll off containers are lined and de-watered with fluids re-circulated into system.

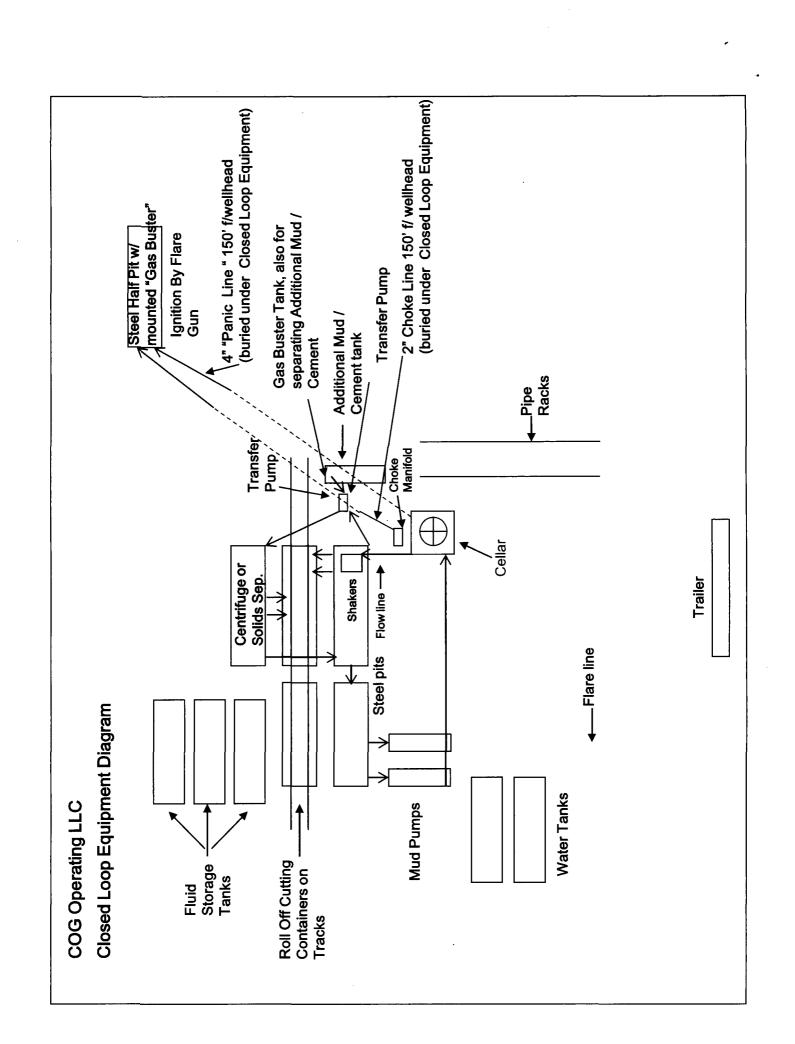
Additional tank is used to capture unused drilling fluid or cement returns from casing jobs.

This equipment will be maintained 24 hrs./day by solids control personnel and or rig crews that stay on location.

Cuttings will be hauled to either:

CRI (permit number R9166) or GMI (permit number 711-019-001)

dependent upon which rig is available to drill this well.



| | Hole Volumes | | | | | | | | |
|------|-----------------------------|--------|--------------------------|---------|----------------|----------|--|--|--|
| Hole | Hole Section (Length) | Casing | Capacity (ft3/Lin.ft) | Cu.Ft | Total Cu.Ft | % Excess | | | |
| Prod | 0-1250 (1250) | 5.5" | 0.1772 | 221.5 | 221.5 | 0 | | | |
| Prod | 1250-8120 (6870) | 5.5" | 0.1733 | 1190.57 | 1190.57 | 30% | | | |

| | Cement Volumes | | | | | | | | |
|----------------------------------|----------------|------|------|--------|--------|--|--|--|--|
| Blend Cement Yield Weight Volume | | | | | | | | | |
| 35:65:6 | 300 | 2.01 | 12.5 | 603 | 1767.5 | | | | |
| 50:50:02 | 850 | 1.37 | 14 | 1164.5 | 1/0/.5 | | | | |

| % Excess Calculation | | | | | | |
|----------------------|--------|-----------|--|--|--|--|
| Total Volume | 1767.5 | 1546 | | | | |
| Cu.Ft | -221.5 | /1190.57 | | | | |
| | 1546 | 30%excess | | | | |

Contingent Multi-Stage Cement Discussion:

COG does not anticipate losing circulation or encountering water flows while drilling this well. If these situations arise, COG requests approval in this APD to set DV tools where necessary immediately without having to shut down the rig and wait for sundry approval.

Lost Circulation or Water flow Contingent DV Tool Cement Plans are as follows:

- 1. If lost circulation occurs while drilling the 12 ½" intermediate hole, it may become necessary to set a DV tool in the 9 5/8" casing. The DV tool depth will be based on hole conditions and cement volumes will be adjusted proportionally. If the DV Tool is needed, it will be set a minimum of 50 feet below the previous casing and a minimum of 200 feet above the current shoe.
- 2. If water flows in the San Andres are encountered, it may become necessary to set a DV tool in the 7" casing. These water flows normally occur in areas where produced water disposal is happening. This dense cement is used to combat water flows. This cement recipe also has a right angle set time and is mixed a little under saturated so the water flow will be absorbed by cement. The DV tool depth will be based on hole conditions and cement volumes will be adjusted proportionally. If the DV tool is needed, it will be set a minimum of 50 feet below the previous casing and a minimum of 200 feet above the current shoe.

| Casing | Bottom MD of Segment | Lead or Tail | Cement Type | Additives | Quantity (Sks) | Yield (cu.ft./sk) | Density (lbs./gal) |
|--------------------------|----------------------------|---|---------------------------------|--|-------------------|----------------------|-----------------------|
| | | 1 st Lead | 35:65:6 C:Poz Gel | 5% salt+5 pps LCM+0.2% SMS + 1% FL-25+1% BA-58+0.3% FL-52A+ 0.125 pps CF | 200 | 2.01 | 12.5 |
| Prod. Multi- Stage | +/- 2000′ | 1 st Tail 2 nd Lead | Class C 35:65:6 C:Poz Gel | 0.3% R-3 + 1.5% CD-32 5% salt + 5 pp LCM + 0.2% SMS + 1% FL-25+ 1% BA-58 + 0.3% FL-52A + 0.125 pps CF | 850 250 | 1.37 2.01 | 14 12.5 |
| | | 2 nd Tail | 50:50:2 C: PozGel | 5% salt + 3 pps LCM + 0.6% SMS + 1% FL-25 + 1% BA-58 + 0.125 pps CF | 150 | 0.99 | 16.8 |

Well Name: MUSTANG 34 FEDERAL COM Well Number: 24H

Access road engineering design attachment:

Access surfacing type: OTHER

Access topsoil source: BOTH

Access surfacing type description: Caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description: Surfacing material will consist of native caliche. Caliche will be obtained from the actual well site if available. Secondary candidate source will be a Federal owned Caliche Pit located in the NWNW of Sec 35, T19S, R25E. A third candidate source will be a privately owned Caliche Pit located in the NWNE of Sec 14, T20S, R25E.

Onsite topsoil removal process: See attached New Access Road Plan.

Access other construction information:

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: Water will be diverted where necessary to avoid ponding, prevent erosion, maintain good drainage and to be consistent with local drainage patterns.

Road Drainage Control Structures (DCS) description: Water will be diverted where necessary to avoid ponding, prevent erosion, maintain good drainage and to be consistent with local drainage patterns.

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:

Mustang 34 Federal Com 24H 1mileRadius Map 05-15-2017.pdf

Existing Wells description:

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: If the well is productive, contemplated facilities will be as follows: Two (2) proposed flowlines, will follow an archaeologically approved route to the Mustang 34 Federal Com #24H Battery located in Section 34 in T18S R25E. The flowlines will be SDR 7 3" poly line laid on the surface and will be approximately 875 feet in length. Normal working pressure of the flowlines will be below 70 psi and carry a mixture of produced oil, water, and gas. Flowlines

Well Name: MUSTANG 34 FEDERAL COM Well Number: 24H

will follow existing well-traveled or proposed roads. The tank battery and facilities including all flow lines and piping will be installed according to API specifications.

Production Facilities map:

Mustang_34_Federal_Com_24H_Btry_Schematic_05-15-2017.pdf Mustang_34_Federal_Com_24H_Flowlines_Map_05-15-2017.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: DUST CONTROL,

INTERMEDIATE/PRODUCTION CASING, SURFACE CASING

Describe type:

Source latitude:

Source longitude:

Water source type: GW WELL

Source datum:

Water source permit type: PRIVATE CONTRACT

Source land ownership: COMMERCIAL

Water source transport method: PIPELINE,TRUCKING

Source transportation land ownership: COMMERCIAL

Water source volume (barrels): 1904.762 Source volume (acre-feet): 0.24551065

Source volume (gal): 80000

Water source and transportation map:

Alfadale Water Supply Map 05-15-2017.pdf

Loco_Hills_Water_Disposal_Co_Water_Supply_05-15-2017.pdf

Water source comments: The well will be drilled with combination brine and fresh water mud system as outlined in the drilling program. Water will be obtained from commercial water stations in the area and hauled to location by transport truck over the existing and proposed access roads shown in Vicinity Map. A fresh water source is nearby and fast line may be laid along existing road ROW's and fresh water pumped to the well. Water will originate from private wells location described on the attached "Alfadale Water Supply" Map attached to this APD. Alfadale, 575-736-1339. A secondary water source will be from private wells location depicted on the attached "Loco Hills Water Disposal Co" map attached to this APD. James R. Maloney, 575-677-2118. No water well will be drilled on the location.

Well casing type:

New water well? NO

Well depth (ft):

New Water Well Info

| Well latitude: | Well Longitude: | Well datum: |
|-----------------------------------|---------------------------|-------------|
| Well target aquifer: | | |
| Est. depth to top of aquifer(ft): | Est thickness of aquifer: | |
| Aquifer comments: | | |
| Aquifer documentation: | | |

Well Name: MUSTANG 34 FEDERAL COM Well Number: 24H

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: Surfacing material will consist of native caliche. Caliche will be obtained from the actual well site if available. Secondary candidate source will be a Federal owned Caliche Pit located in the NWNW of Sec 35, T19S, R25E. A third candidate source will be a privately owned Caliche Pit located in the NWNE of Sec 14, T20S, R25E. **Construction Materials source location attachment:**

Construction Turn Over Procedure 05-15-2017.pdf Federal_Caliche_Pit_35_19S_25E_05-15-2017.pdf Private Caliche Pit 14 20S 25E 05-15-2017.pdf

Section 7 - Methods for Handling Waste

Waste type: PRODUCED WATER

Waste content description: Produced Water

Amount of waste: 100

barrels

Waste disposal frequency: Daily

Safe containment description: Steel Tanks

Safe containment attachment:

Waste disposal type: HAUL TO COMMERCIAL

Disposal location ownership: STATE

FACILITY

Disposal type description:

Disposal location description: NMOCD approved commercial disposal facility. R360's disposal site located at 4507 West

Carlsbad Highway, Hobbs, NM 88240.

Waste type: GARBAGE

Waste content description: Garbage and trash produced during drilling and completion operations.

Amount of waste: 100

pounds

Waste disposal frequency: Weekly

Safe containment description: Trash Bin

Safe containment attachment:

Well Name: MUSTANG 34 FEDERAL COM Well Number: 24H

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

FACILITY

Disposal type description:

Disposal location description: Garbage and trash to be collected in trash bin and hauled to Lea Landfill LLC. Located at mile marker 64, Highway 62-180 East, PO Box 3247, Carlsbad, NM 88221. No toxic waste or hazardous chemicals will be produced by this operation.

Waste type: SEWAGE

Waste content description: Human waste and grey water

Amount of waste: 100

gallons

Waste disposal frequency: Weekly

Safe containment description: Portable septic system and/or portable waste gathering system.

Safe containmant attachment:

FACILITY

Disposal type description:

Disposal location description: Hauled to NMOCD approved waste disposal facility.

Waste type: DRILLING

Waste content description: Drill cuttings and drilling fluids

Amount of waste: 100

gallons

Waste disposal frequency: Daily

Safe containment description: Closed Loop System

Safe containment attachment:

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

FACILITY

Disposal type description:

Disposal location description: R360's disposal site located at 4507 West Carlsbad Highway, Hobbs, NM 88240.

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

Well Name: MUSTANG 34 FEDERAL COM Well Number: 24H

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? YES

Description of cuttings location Description of cuttings location: Closed Loop Mud System: Roll-off Style Mud Box

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:

Mustang_34_Federal_Com_24H_Well_Site_Plat_05-12-2017.pdf

Comments: After well is completed, a battery will be built on the East side of this well pad. There will be no Interim reclamation and the pad will not be downsized.

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: MUSTANG 34 FEDERAL COM

Multiple Well Pad Number: 4

Recontouring attachment:

Drainage/Erosion control construction: No sedimentation or erosion control will be necessary on this location as it is generally flat with little to no slope or cut and fill.

Drainage/Erosion control reclamation: No sedimentation or erosion control will be necessary on this location as it is generally flat with little to no slope or cut and fill.

Well Name: MUSTANG 34 FEDERAL COM Well Number: 24H

Wellpad long term disturbance (acres): 3.74 Wellpad short term disturbance (acres): 3.74

Access road long term disturbance (acres): 3.7 Access road short term disturbance (acres): 3.7

Pipeline long term disturbance (acres): 0.6026171 Pipeline short term disturbance (acres): 0.6026171

Other long term disturbance (acres): 0 Other short term disturbance (acres): 0

Total long term disturbance: 8.042617 Total short term disturbance: 8.042617

Reconstruction method: After well is completed, a battery will be built on the East side of this well pad. There will be no Interim reclamation and the pad will not be downsized.

Topsoil redistribution: The stockpiled topsoil will be spread out on reclaimed area and reseeded with a BLM approved seed mixture.

Soil treatment: No Interim reclamation will be performed.

Existing Vegetation at the well pad: Grassland area with sandy topsoil. Vegetation is moderately sparse with Native prairie grasses, some mesquite and shinnery oak.

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: Grassland area with sandy topsoil. Vegetation is moderately sparse with Native prairie grasses, some mesquite and shinnery oak.

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: Grassland area with sandy topsoil. Vegetation is moderately sparse with Native prairie grasses, some mesquite and shinnery oak.

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: Grassland area with sandy topsoil. Vegetation is moderately sparse with Native prairie grasses, some mesquite and shinnery oak.

Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Seed harvest description:

Seed harvest description attachment:

Operator Name: COG OPERATING LLC

Well Name: MUSTANG 34 FEDERAL COM

Well Number: 24H

Seed Management

| Seed Table | | |
|----------------------|-------------|--------------------------|
| Seed type: | | Seed source: |
| Seed name: | | |
| Source name: | | Source address: |
| Source phone: | | |
| Seed cultivar: | | |
| Seed use location: | | |
| PLS pounds per acre: | | Proposed seeding season: |
| Seed Summary | | Total pounds/Acre: |
| Seed Type | Pounds/Acre | |

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name:

Last Name:

Phone:

Email:

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: Approved EPA and BLM requirements and policies for weed control methods will be followed.

Weed treatment plan attachment:

Monitoring plan description: Evaluation of growth will be made after the completion of one full growing season after seeding. -OR- BLM representative will be contacted prior to commencing construction of well pad and road. BLM representative will also be contacted prior to commencing reclamation work.

Monitoring plan attachment:

Success standards: 80% coverage by 2nd growing season of native species with less than 5% invasive species.

Pit closure description: N/A

Pit closure attachment:

Well Name: MUSTANG 34 FEDERAL COM Well Number: 24H

Section 11 - Surface Ownership

| Disturbance | tyne: | WELL | PAF |
|---------------|-------|------|------------|
| Distui Dalice | type. | ** | $I \cap L$ |

Describe:

Surface Owner: PRIVATE OWNERSHIP

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:

Fee Owner: Wanda Wilson

Fee Owner Address: 235 N. Lake Rd., Artesia, NM 88210

Phone: (575)910-1692

Email:

Surface use plan certification: YES

Surface use plan certification document:

Mustang_34_Fed_Com_24H_SurfUsePlanCert_WW_05-15-2017.pdf

Surface access agreement or bond: Agreement

Surface Access Agreement Need description: A Surface Use Agreement has been reached with the Surface

Owner.

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Operator Name: COG OPERATING LLC Well Name: MUSTANG 34 FEDERAL COM

Well Number: 24H

Fee Owner: David Wilson

Fee Owner Address: 80 West Kincaid Ranch Road,

Artesia, NM 88210 Phone: (907)863-8463

Email:

Surface use plan certification: YES

Surface use plan certification document:

Mustang_34_Fed_Com_24H_SurfUsePlanCert_DW_05-15-2017.pdf

Surface access agreement or bond: Agreement

Surface Access Agreement Need description: A Surface Use Agreement has been reached with the Surface

Owner.

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: PRIVATE OWNERSHIP

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:

Well Name: MUSTANG 34 FEDERAL COM Well Number: 24H

Fee Owner: Wanda Wilson Fee Owner Address: 235 N. Lake Rd., Artesia, NM 88210

Phone: (575)910-1692 Email:

Surface use plan certification: YES

Surface use plan certification document:

Mustang_34_Fed_Com_24H_SurfUsePlanCert_WW_05-15-2017.pdf

Surface access agreement or bond: Agreement

Surface Access Agreement Need description: A Surface Use Agreement has been reached with the Surface

Owner.

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Fee Owner: David Wilson Fee Owner Address: 80 West Kincaid Ranch Rd., Artesia,

Phone: (907)863-8463 NM 88210 Email:

Surface use plan certification: YES

Surface use plan certification document:

Mustang_34_Fed_Com_24H_SurfUsePlanCert_DW_05-15-2017.pdf

Surface access agreement or bond: Agreement

Surface Access Agreement Need description: A Surface Use Agreement has been reached with the Surface

Owner.

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Disturbance type: PIPELINE

Describe:

Surface Owner: PRIVATE OWNERSHIP

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

Well Name: MUSTANG 34 FEDERAL COM Well Number: 24H

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Fee Owner: Wanda Wilson

Fee Owner Address: 235 N. Lake Rd., Artesia, NM 88210

Phone: (575)910-1692

Email:

Surface use plan certification: YES

Surface use plan certification document:

Mustang_34_Fed_Com_24H_SurfUsePlanCert_WW_05-15-2017.pdf

Surface access agreement or bond: Agreement

Surface Access Agreement Need description: A Surface Use Agreement has been reached with the Surface

Owner.

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Fee Owner: David Wilson

Fee Owner Address: 80 West Kincaid Ranch Rd., Artesia,

NM 88210 Email:

Phone: (910)863-8463

Surface use plan certification: YES

Surface use plan certification document:

Mustang_34_Fed_Com_24H_SurfUsePlanCert_DW_05-15-2017.pdf

Surface access agreement or bond: Agreement

Surface Access Agreement Need description: A Surface Use Agreement has been reached with the Surface

Owner

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Well Name: MUSTANG 34 FEDERAL COM Well Number: 24H

Section 12 - Other Information

Right of Way needed? NO

Use APD as ROW?

ROW Type(s):

ROW Applications

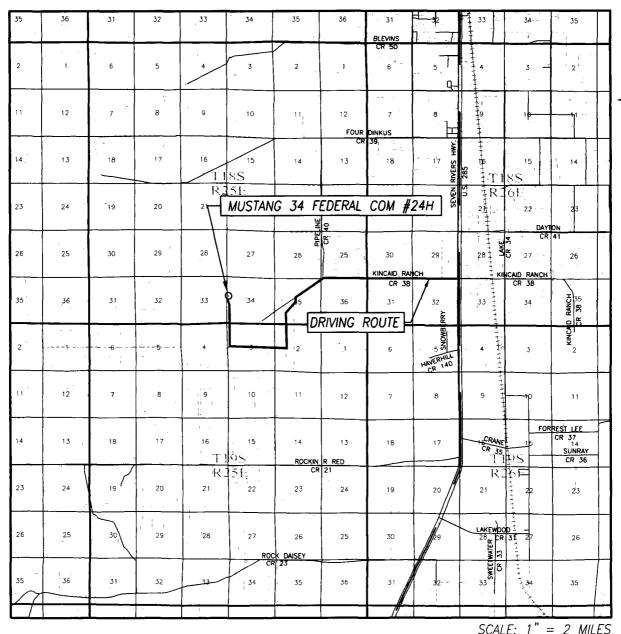
SUPO Additional Information: 1. It will be necessary to run electric power if this well is productive. Power will be provided by CVE. There will be necessary electric line construction for this well. A Proposed Electric Line Plat has been attached to this APD. 2. There is no permanent or live water in the immediate area. 3. There are no dwellings within 2 miles of this location. 4. A Cultural Resources Examination is being prepared by Boone Arch Services of New Mexico, LLC. Carlsbad, NM, 88220. 506 E Chapman Rd., phone # 575.887.7667 and the results will be forwarded to your office in the near future. **Use a previously conducted onsite?** YES

Previous Onsite information: On-site performed on 03/08/17 by Jeff Robertson(BLM), Tim Baker(COG), Jason Morgan(RRC).

Other SUPO Attachment

Mustang_34_Federal_Com_24H_Electric_Line_05-15-2017.pdf

VICINITY MAP



DRIVING ROUTE: SEE TOPOGRAPHICAL AND ACCESS ROAD MAP

SEC. 34 TWP. 18-S RGE. 25-E

SURVEY N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 2190' FNL & 150' FWL

ELEVATION 3533'

OPERATOR COG OPERATING, LLC

LEASE MUSTANG 34 FEDERAL COM

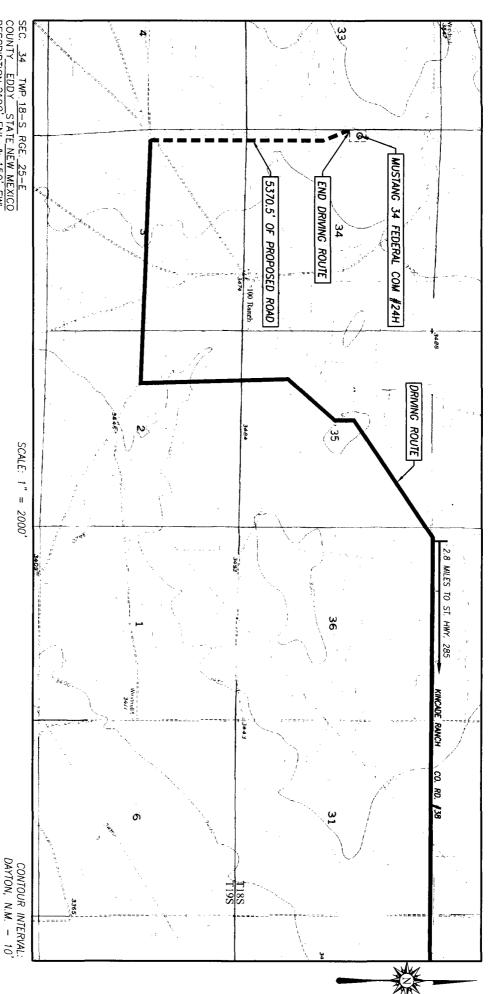


PROVIDING SURVEYING SERVICES SINCE 1946

JOHN WEST SURVEYING COMPANY

412 N. DAL PASO HOBBS, N.M. 88240 (575) 393-3117 www.jwsc.biz TBPLS# 10021000

TOPOGRAPHICAL AND ACCESS ROAD MAP



DAYTON, N.M. SURVEY N

SURVEY N.M.P.M.

OPERATOR. ELEVATION_ DESCRIPTION 2190'

LEASE_

MUSTANG 34 FEDERAL COM

FROM THE INTERSECTION OF U.S. HWY, #285 AND CO. RD. #38 (KINCADE RANCH), GO WEST ON CO. RD. #38 APPROX. 2.8 MILES. TURN LEFT AND GO SOUTHWEST APPROX. 0.6 MILES. TURN LEFT AND SOUTH APPROX.1.2 MILES. TURN RIGHT AND GO WEST APPROX. 1.2 MILES. FOLLOW ROAD SURVEY LATH NORTH, THEN NORTHWEST APPROX. 5.370.5 FEET TO THE SOUTHWEST PORTION OF PROPOSED PAD.

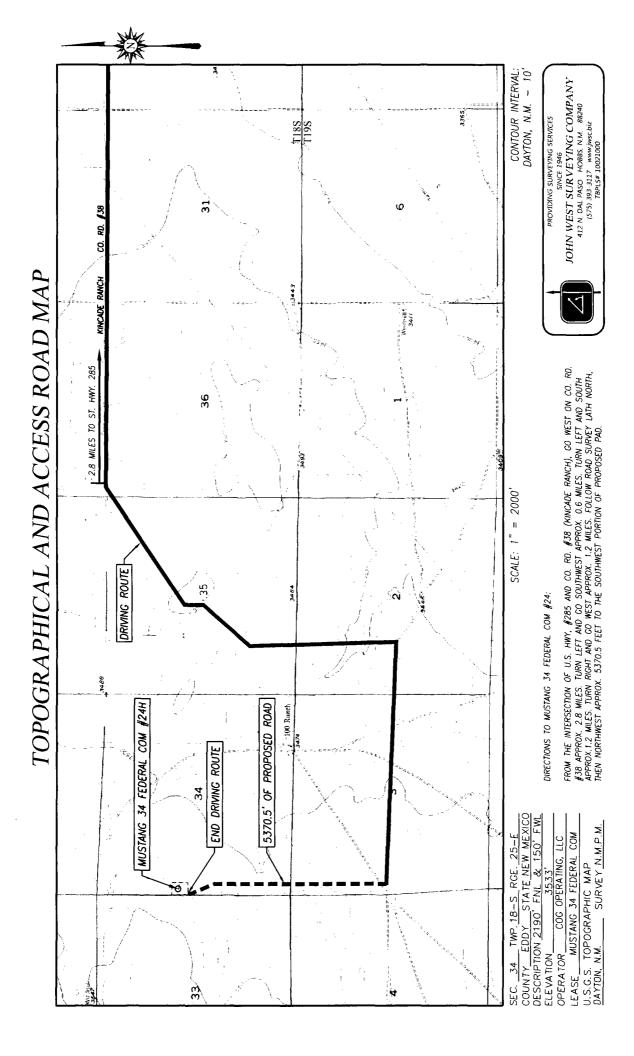
JOHN WEST SURVEYING COMPANY 412 N. DAL PASO HOBBS, N.M. 88240 (575) 393-3117 www.jwsc.biz TBPLS# 10021000

PROVIDING SURVEYING SERVICES SINCE 1946

3533' COG OPERATING, LLC

& 150°

DIRECTIONS TO MUSTANG 34 FEDERAL COM #24:



NEW ACCESS ROAD PLAN

1. Proposed Access Road:

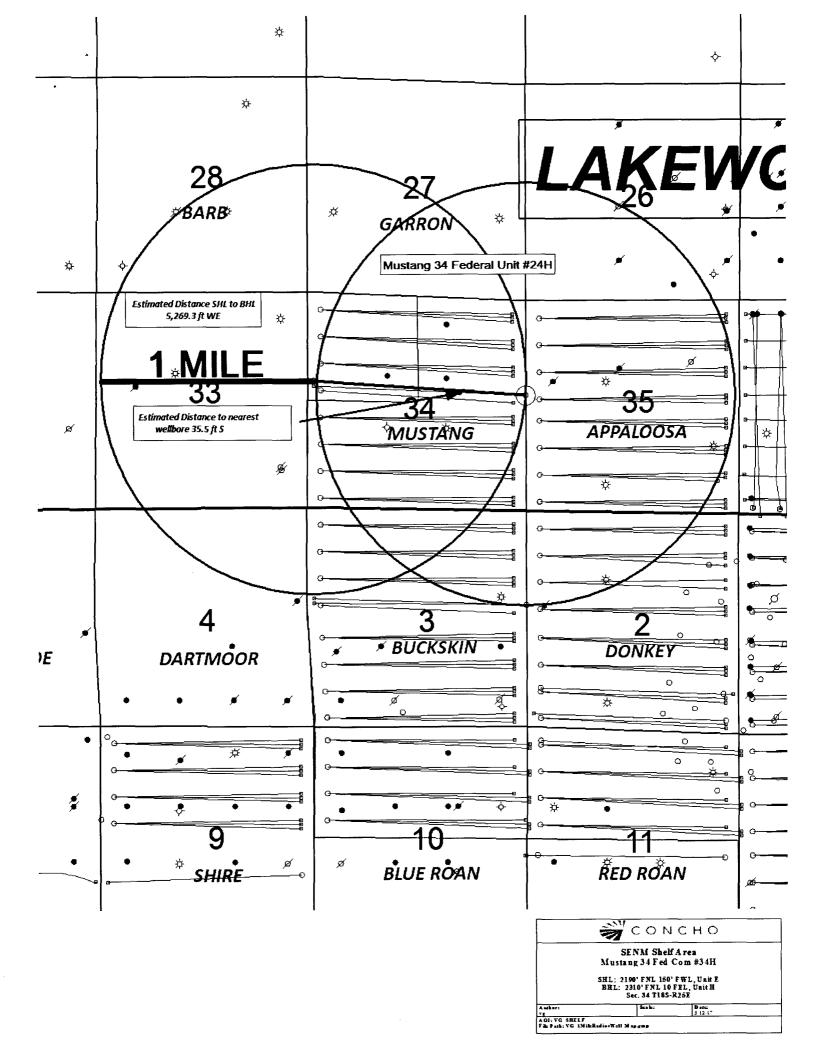
The Access Road Plat shows the footage of new access road will be required for this location. The new access road will be constructed as follows:

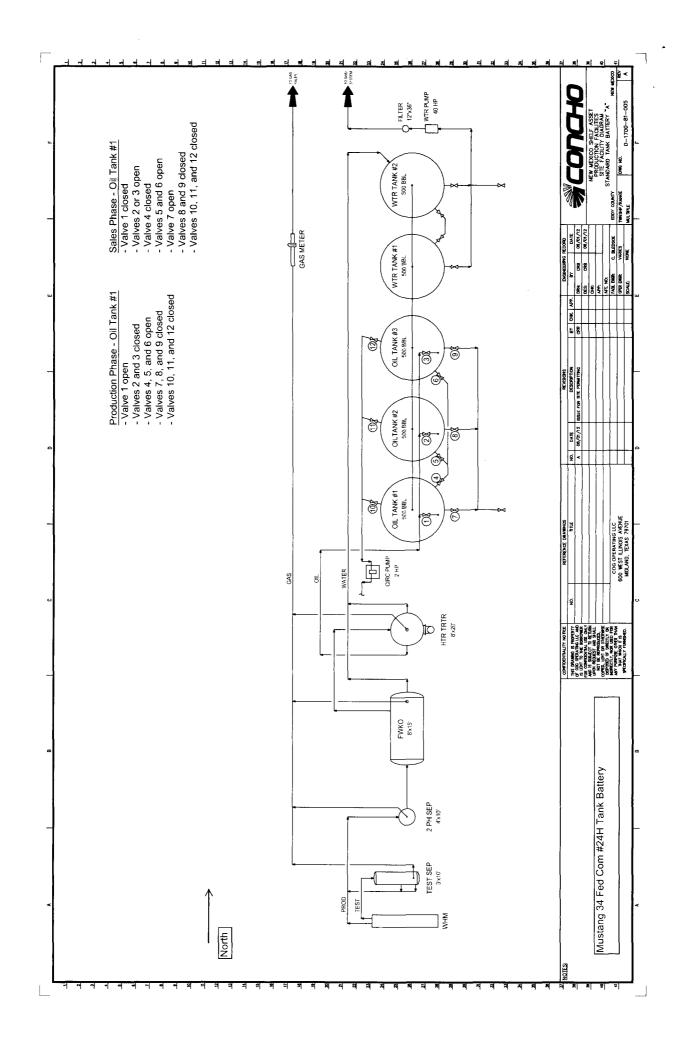
- A. The maximum width of the running surface will be 20'. The road will be crowned, ditched and constructed of 6" rolled and compacted caliche. Ditches will be at 3:1 slope and 4 feet wide. Water will be diverted where necessary to avoid ponding, prevent erosion, maintain good drainage, and to be consistent with local drainage patterns.
- B. The average grade will be less than 1%.
- C. No turnouts are planned.
- D. No culverts, cattleguard, gates, low water crossings or fence cuts are necessary.
- E. Surfacing material will consist of native caliche. Caliche will be obtained from the actual well site if available. Secondary and Tertiary candidate sources are identified the "Offsite topsoil source description" in Section 2 of the SUPO.

2. Source of Construction Materials and Location "Turn-Over" Procedure:

Obtaining caliche: The primary way of obtaining caliche to build locations and roads will be by "turning over" the location. This means, caliche will be obtained from the actual well sight. A caliche permit will be obtained from BLM prior to pushing up any caliche. 2400 cu. Yards is max amount of caliche needed for pad and roads. Amount will vary for each pad. The procedure below has been approved by BLM personnel:

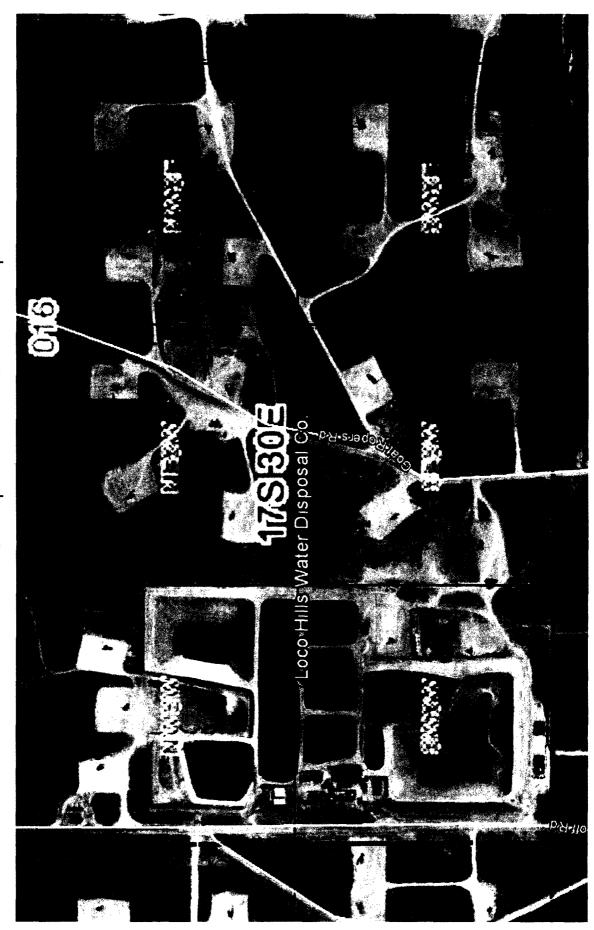
- A. The top 6 inches of topsoil is pushed off and stockpiled along the side of the location.
- B. An approximate 120' X 120' area is used within the proposed well site to remove caliche.
- C. Subsoil is removed and piled alongside the 120' by 120' area within the pad site.
- D. When caliche is found, material will be stock piled within the pad site to build the location and road.
- E. Then subsoil is pushed back in the hole and caliche is spread accordingly across entire location and road.
- F. Once well is drilled, the stock piled top soil will be used for interim reclamation and spread along areas where caliche is picked up and the location size is reduced. Neither caliche nor subsoil will be stock piled outside of the well pad. Topsoil will be stockpiled along the edge of the pad as depicted in attached plat.





P. Wales 0116 36.5 E Alfadale Water Station (Sec. 1985) No. of the last 18S|26|E -Ki ji . J. J. 200 // VO No. L. De

Alfadale Water Supply Map



Loco Hills Water Disposal Co. Water Well Map

WELL SITE AND ROAD CONSTRUCTION

1. Source of Construction Materials and Location "Turn-Over" Procedure:

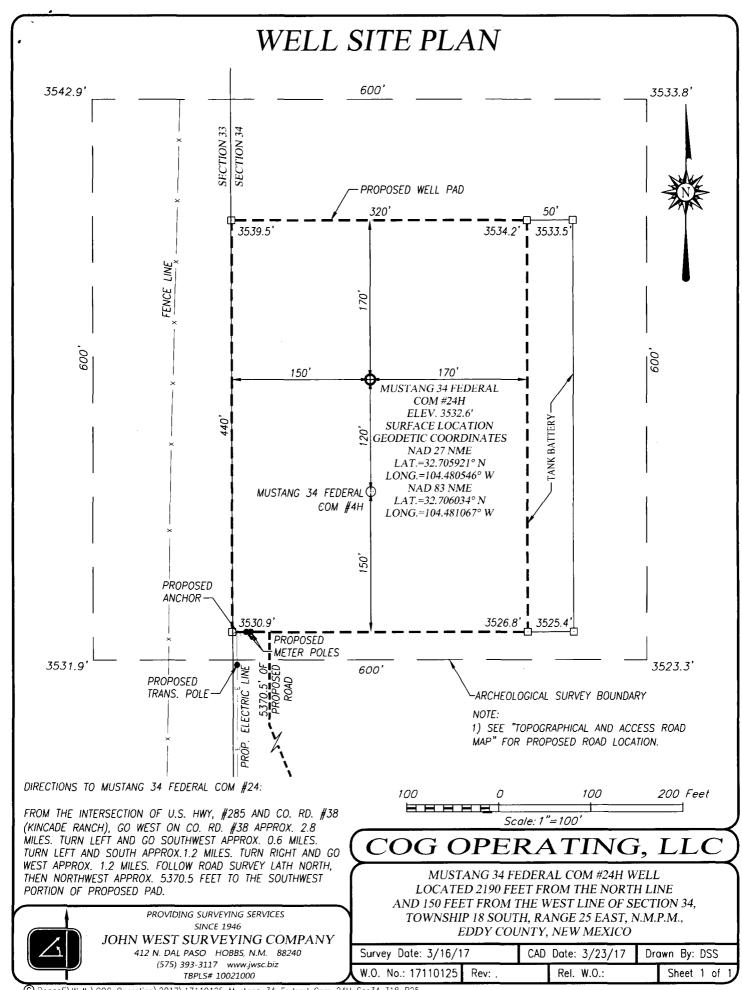
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- A. The top 6 inches of topsoil is pushed off and stockpiled along the side of the location.
- B. An approximate 120' X 120' area is used within the proposed well site to remove caliche.
- C. Subsoil is removed and piled alongside the 120' by 120' area within the pad site.
- D. When caliche is found, material will be stock piled within the pad site to build the location and road.
- E. Then subsoil is pushed back in the hole and caliche is spread accordingly across entire location and road.
- F. Once well is drilled, the stock piled top soil will be used for interim reclamation and spread along areas where caliche is picked up and the location size is reduced. Neither caliche nor subsoil will be stock piled outside of the well pad. Topsoil will be stockpiled along the edge of the pad as depicted in attached plat.
 - In the event that no caliche is found onsite, caliche will be hauled in from a BLM approved caliche pit.

Surface Use Plan Page 1

Federal Caliche Pit Map

Private Caliche Pit Map





Bureau of Land Management 620 E. Greene St. Carlsbad, NM 8820

RE: Mustang 34 Federal Com #24H SL: 2190' FNL & 150' FWL Section 34, T18S, R25E, Unit E

To Whom It May Concern:

COG Operating LLC has a Private Surface Owner Agreement with Wanda F. Wilson whose address is 235 N. Lake Rd., Artesia, NM 88210, for the Mustang 34 Federal Com 24H well pad, pipelines and access road in Unit E of Section 34, T18S, R25E, Eddy County, New Mexico.

Sincerely,

Robyn M. Russell Regulatory Analyst COG Operating LLC Ph: (432) 685-4385

Email: Rrussell@concho.com



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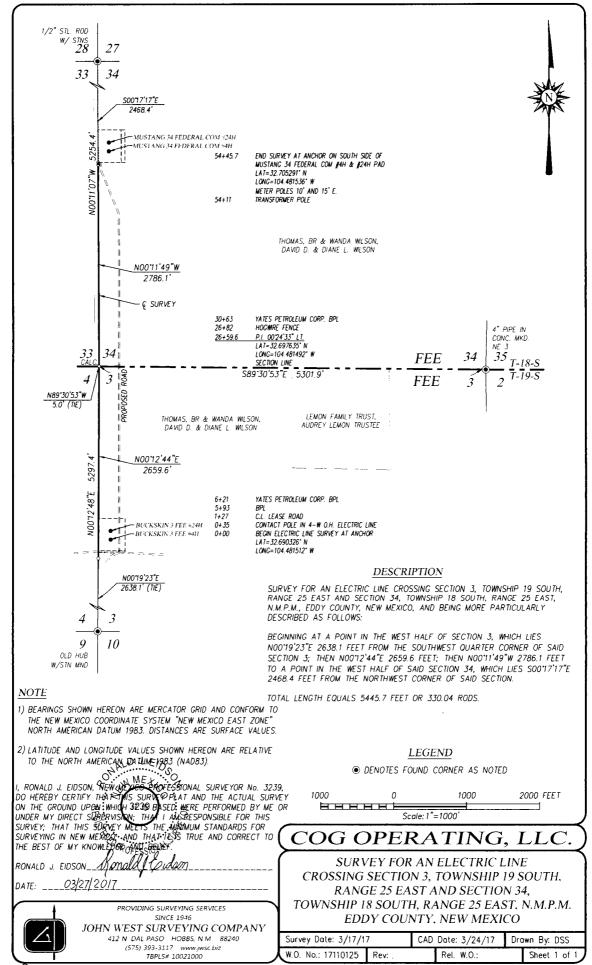
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U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Leak detection system attachment:

Additional bond information attachment:

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

Is the reclamation bond a rider under the BLM bond?

Lined pit Monitor description: Lined pit Monitor attachment:

Lined pit bond number: Lined pit bond amount:



Section 1 - General

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

Section 2 - Lined Pits Would you like to utilize Lined Pit PWD options? NO Produced Water Disposal (PWD) Location: PWD surface owner: PWD disturbance (acres): Lined pit PWD on or off channel: Lined pit PWD discharge volume (bbl/day): Lined pit specifications: Pit liner description: Pit liner manufacturers information: Precipitated solids disposal: Decribe precipitated solids disposal: Precipitated solids disposal permit: Lined pit precipitated solids disposal schedule: Lined pit precipitated solids disposal schedule attachment: Lined pit reclamation description: Lined pit reclamation attachment: Leak detection system description:

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 attachment: | |
| Unlined pit reclamation description: | |
| Unlined pit reclamation attachment: | |
| Unlined pit Monitor description: | |
| Unlined pit Monitor attachment: | |
| Do you propose to put the produced water to beneficial use? | |
| Beneficial use user confirmation: | |
| Estimated depth of the shallowest aquifer (feet): | |
| Does the produced water have an annual average Total Dissoluthat of the existing water to be protected? | lved Solids (TDS) concentration equal to or less than |
| 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: | |
|---|----------------------------|
| Înjection 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 03/12/2018

Bond Information

Federal/Indian APD: FED

BLM Bond number: NMB000215

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: