Form 3160-3
(June 2015)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☐ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone

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

8. Lease Name and Well No.

2. Name of Operator

9. API Well No.
30-015-54886

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool, or Exploratory

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

At surface

At proposed prod. zone

11. Sec., T. R. M. or Blk. and Survey or Area

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

12. County or Parish

13. State

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration

24. Attachments

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

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

25. Signature	Name *(Printed/Typed)*	Date
Title		
Approved by *(Signature)*	Name *(Printed/Typed)*	Date
Title	Office	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 03/07/2024

Review and Appeal Rights

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

PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Cimarex Energy Company
LEASE NO.:	NMNM096210
COUNTY:	Eddy

TABLE OF CONTENTS

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

Approval Date: 03/07/2024

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 resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The 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 the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

If the entire project is covered under the Permian Basin Programmatic Agreement (cultural resources only):

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See information below discussing NAGPRA.

If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."

Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The 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 the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

IV. NOXIOUS WEEDS

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

V. SPECIAL REQUIREMENT(S)

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

BURIED/SURFACE LINE(S):
When crossing ephemeral drainages the pipeline(s) will be buried to a minimum depth of 48 inches from the top of pipe to ground level. Erosion control methods such as gabions and/or rock aprons should be placed on both up and downstream sides of the pipeline crossing. In addition, curled (weed free) wood/straw fiber wattles/logs and/or silt fences should be placed on the downstream side for sediment control during construction and maintained until soils and vegetation have stabilized. Water bars should be placed within the ROW to divert and dissipate surface runoff. A pipeline access road is not permitted to cross these ephemeral drainages. Traffic should be diverted to a preexisting route. Additional seeding may be required in floodplains and drainages to restore energy dissipating vegetation.

Prior to pipeline installation/construction a leak detection plan will be developed. The method(s) could incorporate gauges to detect pressure drops, situating valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.

TEMPORARY USE FRESH WATER FRAC LINE(S):

Once the temporary use exceeds the timeline of 180 days and/or with a 90 day extension status; further analysis will be required if the applicant pursues to turn the temporary ROW into a permanent ROW.

Cave/Karst:

Construction Mitigation

In order to mitigate the impacts from construction activities on cave and karst resources, the following Conditions of Approval will apply to this APD or project:

General Construction:

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

Pad Construction:

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

Road Construction:

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

Buried Pipeline/Cable Construction:

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

Surface Flowlines Installation:

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

Drilling Mitigation

Federal regulations and standard Conditions of Approval applied to all APDs require that adequate measures are taken to prevent contamination to the environment. Due to the extreme sensitivity of the cave and karst resources in this project area, the following additional Conditions of Approval will be added to this APD.

To prevent cave and karst resource contamination the following will be required:

- Closed loop system using steel tanks - all fluids and cuttings will be hauled off-site and disposed of properly at an authorized site
- Rotary drilling with fresh water where cave or karst features are expected to prevent contamination of freshwater aquifers.
- Directional drilling is only allowed at depths greater than 100 feet below the cave occurrence zone to prevent additional impacts resulting from directional drilling.
- Lost circulation zones will be logged and reported in the drilling report so BLM can assess the situation and work with the operator on corrective actions.
- Additional drilling, casing, and cementing procedures to protect cave zones and fresh water aquifers. See drilling COAs.

Production Mitigation

In order to mitigate the impacts from production activities and due to the nature of karst terrane, the following Conditions of Approval will apply to this APD:

- Tank battery locations and facilities will be bermed and lined with a 20 mil thick permanent liner that has a 4 oz. felt backing, or equivalent, to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank.
- Development and implementation of a leak detection system to provide an early alert to operators when a leak has occurred.
- Automatic shut off, check values, or similar systems will be installed for pipelines and tanks to minimize the effects of catastrophic line failures used in production or drilling.

Residual and Cumulative Mitigation

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

Plugging and Abandonment Mitigation

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

Special Status Plant Species:

Texas Hornshell Mussel:

Oil and Gas and Associated Infrastructure Mitigation Measures for Zone D – CCA Boundary Requirements:

- Provide CEHMM with the permit, lease grant, or other authorization form BLM, if applicable.
- Provide CEHMM with plats or other electronic media describing the new surface disturbance for the project.

VI. CONSTRUCTION

A. NOTIFICATION

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

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

B. TOPSOIL

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

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

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

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

D. FEDERAL MINERAL MATERIALS PIT

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

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

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

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing
The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is

free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS

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

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

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

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

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

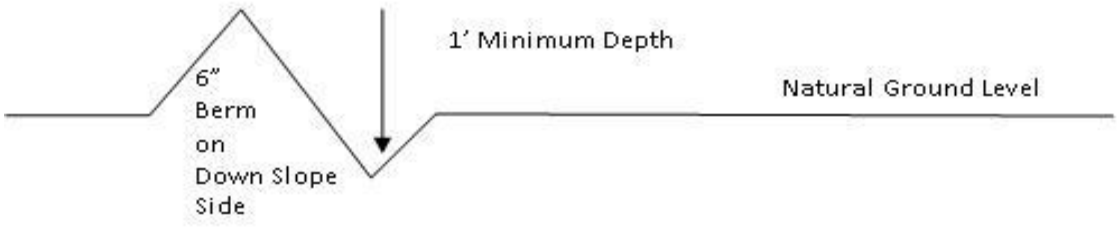
Ditching
Ditching shall be required on both sides of the road.

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

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

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

Cross Section of a Typical Lead-off Ditch



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

Formula for Spacing Interval of Lead-off Ditches

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

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

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

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

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

Approval Date: 03/07/2024

Construction Steps

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

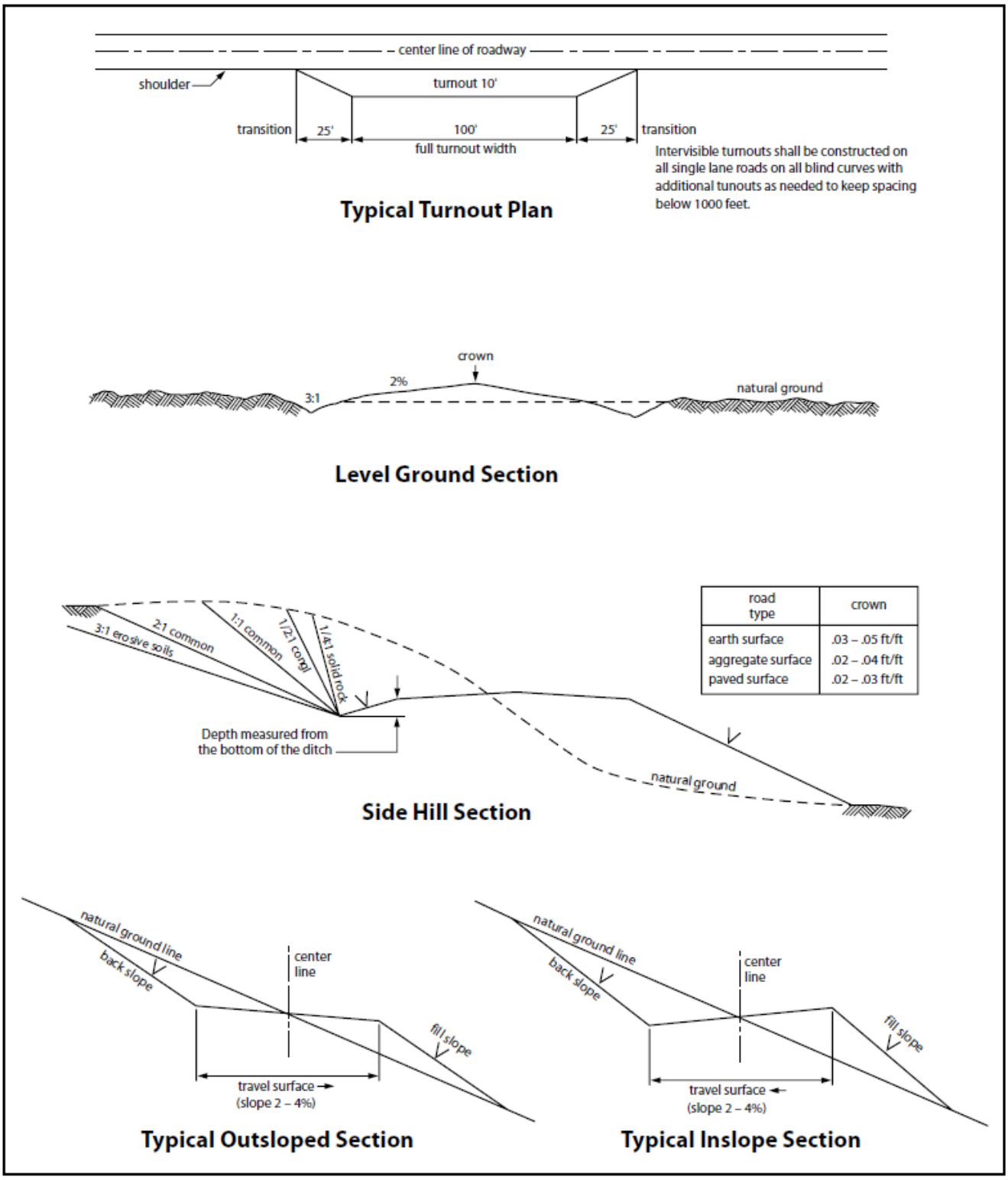


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

Approval Date: 03/07/2024

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

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, **Carlsbad Canyon** from the BLM Standard Environmental Color Chart (CC-001: June 2008).

B. PIPELINES

- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, passages, or voids are intersected by trenching, and no pipe will be laid in the trench at that point until clearance has been issued by the Authorized Officer.
- If a void is encountered alignments may be rerouted to avoid the karst feature and lessen; the potential of subsidence or collapse of karst features, buildup of toxic or

combustible gas, or other possible impacts to cave and karst resources from the buried pipeline.
- Special restoration stipulations or realignment may be required at such intersections, if any.
- A leak detection plan **will be submitted to the BLM Carlsbad Field Office for approval** prior to pipeline installation. The method could incorporate gauges to detect pressure drops, situating values and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.
- Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

CONDITIONS OF APPROVAL FOR TEMPORARY FRESHWATER PIPELINES

Subject to the terms and conditions which are shown below, is hereby approved:

- Surface pipelines 6.5 inch to 16 inch OD may be in place for no more than 180 days not including installation. In accordance with your request, this 180 day period is requested to begin 2/29/2024.

- Surface pipeline will be in operation for no more than 180 days; a maximum of seven (7) days authorized for installation of the lay flat poly line prior to operation.

- Surface pipelines larger than 6.5 inch to-16-inch OD may be in place for no more than 180 days from date of authorization; 5/1/2018, unless a SF-299 is submitted within 30 days of this decision expiring requesting a long term buried fresh water pipeline, and processing of the SF-299 is not yet complete at the end of 30 days, in which case the line(s) may be left in place until a decision is made on the SF-299.

- All lines will be removed when no longer in use.

- Width of authorized use is 15-feet.

• No blading and/or earthwork will be allowed in order to place the pipeline except burying the line under crossings.

• The pipeline will be buried under all intersecting routes, including BLM-designated trails and access roads into caliche pits, rancher watering stations, etc. All such buried crossings will be removed when the pipeline is removed, unless otherwise approved by the Authorized Officer. Pipelines larger than 6.5-inch OD may utilize other crossing methodologies (but any fill placed over pipeline must be brought in from off-site).

• Pipeline crossings of fences should be avoided where possible. If a crossing is necessary, contact fence owner [usually the grazing permittee] prior to installation, and install by threading pipeline under the lowest wire of the fence; pipeline should never cross on top of any fence wires.

• The pipeline shall stay within 10 feet maximum of existing disturbance (e.g. lease road, pipeline right-of-way etc.); placement should be within 5 feet whenever possible.

• Placement of pumps or other high-maintenance equipment shall be installed along maintained lease roads.
• Gas or diesel pumps, generators, or compressors shall be placed on visquen matting [or 20 mil plastic] and in a containment structure capable of containing all potentially released fuels.

Containments must be protected against wildlife deaths in accordance with oilfield best management practices.

• Due to potential damage to natural resources, no work is allowed during inclement weather.

• Pipeline will be marked with your company's name and contact number, at beginning and ending points, at all public-road crossings, and at intervals not exceeding every 0.6 mile, unless otherwise approved by the Authorized Officer.

• Should unforeseen damage occur to resources, BLM will require reclamation of the impacted land.
• No water may be released into the environment without BLM consent.

• Placement of surface pipelines along or under public roadways may require permits from the road authority.

• This authorization is limited to lands under BLM jurisdiction. If your proposed pipeline crosses lands under private ownership or under other agency jurisdiction, you are responsible for obtaining all necessary permits and approvals from those parties.

BURIED PIPELINE STIPULATIONS

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

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

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

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

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on

the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

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

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

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

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

- Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed **20** feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation*.)

- Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed **30** feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)

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

8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately ___6___ inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.

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

10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless

otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.

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

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

☒**Seed Mixture 1**
☐**Seed Mixture 2**
☐**Seed Mixture 2/LPC**
☐**Seed Mixture 3**
☐**Seed Mixture 4**
☐**Seed Mixture Aplomado Falcon Mixture**

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

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

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

16. Any cultural resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The 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 the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

If the entire project is covered under the Permian Basin Programmatic Agreement (cultural resources only):

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See Stipulation 17 for more information.

If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

17. The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."

18. Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The 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 the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

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

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

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

21. (Applicant) will not construct the pipeline until they have applied and paid for a right-of-way grant.

22. Special Stipulations:

Karst:

- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, passages, or voids are intersected by trenching, and no pipe will be laid in the trench at that point until clearance has been issued by the Authorized Officer.
- If a void is encountered alignments may be rerouted to avoid the karst feature and lessen; the potential of subsidence or collapse of karst features, buildup of toxic or combustible gas, or other possible impacts to cave and karst resources from the buried pipeline.
- Special restoration stipulations or realignment may be required at such intersections, if any.
- A leak detection plan **will be submitted to the BLM Carlsbad Field Office for approval** prior to pipeline installation. The method could incorporate gauges to detect pressure drops, situating values and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.
- Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

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

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

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

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

3. Holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. § 9601, *et seq*. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, *et seq*.) on the Right-of-Way (unless

the release or threatened release is wholly unrelated to activity of the Right-of-Way Holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way Holder on the Right-of-Way. This provision applies without regard to whether a release is caused by Holder, its agent, or unrelated third parties.

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

a. Activities of Holder including, but not limited to: construction, operation, maintenance, and termination of the facility;

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

c. Acts of God.

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

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

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

6. All construction and maintenance activity shall be confined to the authorized right-of-way width of **30** feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline shall be installed no farther than 10 feet from the edge of the road or buried pipeline right-of-way. If existing surface pipelines prevent this distance, the proposed surface pipeline shall be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity shall be confined to existing roads or right-of-ways.

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

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

9. The pipeline shall be buried with a minimum of 6 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 resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The 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 the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

If the entire project is covered under the Permian Basin Programmatic Agreement (cultural resources only):

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See Stipulation 16 for more information.

If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

16. The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered

inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."

17. Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The 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 the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

18. 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.

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

VIII. INTERIM RECLAMATION

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

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

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

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

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

IX. FINAL ABANDONMENT & RECLAMATION

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

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

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

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

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

Approval Date: 03/07/2024

Seed Mixture 1 for Loamy Sites

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

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

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

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

*Pounds of pure live seed:

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

Approval Date: 03/07/2024

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**Cimarex Energy Company**
LEASE NO.:	**NMNM97126**
LOCATION:	Section 8, T.25 S., R.27 E., NMPM
COUNTY:	Eddy County, New Mexico

WELL NAME & NO.:	**White City 8-17-20 Federal Com 1H**
SURFACE HOLE FOOTAGE:	193'/S & 577'/W
BOTTOM HOLE FOOTAGE	100'/S & 2178'/W
ATS/API ID:	**ATS-21-2901**
APD ID:	**10400079522**
Sundry ID:	**N/a**

COA

H2S	No		
Potash	None		
Cave/Karst Potential	High		
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	Conventional and Multibowl		
Other	☑ 4 String	Capitan Reef: None	☐ WIPP
Other	Pilot Hole: None	☐ Open Annulus	
Cementing	Contingency Squeeze: None	Echo-Meter: None	Primary Cement Squeeze: None
Special Requirements	☐ Water Disposal/Injection	☑ COM	☐ Unit
Special Requirements	☐ Batch Sundry		
Special Requirements Variance	☐ Break Testing	☐ Offline Cementing	☐ Casing Clearance

Approval Date: 03/07/2024

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet **43 CFR part 3170 Subpart 3176**, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **650 feet** (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be **17 1/2** inch in diameter.

    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.

Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing shall be set at approximately **2142 feet** is:

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

Approval Date: 03/07/2024

3. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

Option 1 (Single Stage):

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
  Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

Option 2:

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

DV tool(s) shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall contact the BLM if DV tool(s) depth cannot be set in this range. If an ECP is used, it is to be set a minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage.

a. First stage to DV tool(s): Cement to circulate. If cement does not circulate off the DV tool(s), contact the appropriate BLM office before proceeding with second stage cement job.

b. Second stage above DV tool(s):

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
  Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

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

4. The minimum required fill of cement behind the **5-1/2** inch production casing is:

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
  Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

Approval Date: 03/07/2024

C. PRESSURE CONTROL

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

2.

Option 1:

a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M)** psi.

b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **9-5/8** intermediate casing shoe shall be **3000 (3M)** psi.

c. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **7-5/8** inch intermediate casing shoe shall be **5000 (5M)** psi.

Option 2:

a. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **13-3/8** inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.

   a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
   b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
   c. Manufacturer representative shall install the test plug for the initial BOP test.
   d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
   e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, 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.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in **43 CFR part 3170 Subpart 3171**
- 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.

GENERAL REQUIREMENTS

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

a. Spudding well (minimum of 24 hours)
b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
c. BOPE tests (minimum of 4 hours)

☑ Eddy County
EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
BLM_NM_CFO_DrillingNotifications@BLM.GOV
(575) 361-2822

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 **43 CFR part 3170 Subpart 3172** 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 when present.

A. CASING

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

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

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

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

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

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

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

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

Approval Date: 03/07/2024

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.

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

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

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    c. Manufacturer representative shall install the test plug for the initial BOP test.
    d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) 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 cement), 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 cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** 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 **43 CFR part 3170 Subpart 3172**.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

LVO 2/29/2024

Approval Date: 03/07/2024

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

Operator Certification Data Report

03/07/2024

Operator

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

NAME: JILL JENSEN **Signed on:** 11/30/2023

Title: Authorized Agent

Street Address: 85 S 200 E

City: VERNAL **State:** UT **Zip:** 84078

Phone: (435)789-1017

Email address: JILLJ@UINTAHGROUP.COM

Field

Representative Name: Laci Luig

Street Address: 6001 Deauville Blvd

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

Phone: (432)425-0434

Email address: laci.luig@coterra.com

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

Application Data
03/07/2024

APD ID: 10400079522
Submission Date: 09/23/2021
Operator Name: CIMAREX ENERGY COMPANY
Well Name: WHITE CITY 8-17-20 FEDERAL COM
Well Number: 1H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes
Show Final Text

Section 1 - General

APD ID: 10400079522
Tie to previous NOS? Y
Submission Date: 09/23/2021
BLM Office: Carlsbad
User: JILL JENSEN
Title: Authorized Agent
Federal/Indian APD: FED
Is the first lease penetrated for production Federal or Indian? FED
Lease number: NMNM97126
Lease Acres:
Surface access agreement in place?
Allotted?
Reservation:
Agreement in place? NO
Federal or Indian agreement:
Agreement number:
Agreement name:
Keep application confidential? Y
Permitting Agent? YES
APD Operator: CIMAREX ENERGY COMPANY
Operator letter of
Designation_of_Agent_Letter__Coterra_Energy_20231120155507.pdf

Operator Info

Operator Organization Name: CIMAREX ENERGY COMPANY
Operator Address: 6001 DEAUVILLE BLVD STE 300N
Zip: 79706
Operator PO Box:
Operator City: MIDLAND
State: TX
Operator Phone: (303)295-3995
Operator Internet Address: hknauls@cimarex.com

Section 2 - Well Information

Well in Master Development Plan? NO
Master Development Plan name:
Well in Master SUPO? NO
Master SUPO name:
Well in Master Drilling Plan? NO
Master Drilling Plan name:
Well Name: WHITE CITY 8-17-20 FEDERAL COM
Well Number: 1H
Well API Number:
Field/Pool or Exploratory? Field and Pool
Field Name: COTTON DRAW
Pool Name: BONE SPRING

Operator Name: CIMAREX ENERGY COMPANY

Well Name: WHITE CITY 8-17-20 FEDERAL COM **Well Number:** 1H

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

Is the proposed well in a Helium production area? N **Use Existing Well Pad?** N **New surface disturbance?**

Type of Well Pad: MULTIPLE WELL **Multiple Well Pad Name:** WHITE CITY 8-17-20 FEDERAL COM **Number:** E2W2

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: .6 Miles **Distance to nearest well:** 1386 FT **Distance to lease line:** 0 FT

Reservoir well spacing assigned acres Measurement: 640 Acres

Well plat: Whit_City_8_17_20_Federal_Com_1H___C102_20231201090246.pdf

Well work start Date: 02/01/2024 **Duration:** 90 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 **Vertical Datum:** NAVD88

Survey number: **Reference Datum:** GRADED

Wellbore	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	Will this well produce from this
SHL Leg #1	193	FSL	577	FWL	25S	27E	8	Aliquot SWSW	32.15242	-104.219108	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 96210	3351	0	0	N
KOP Leg #1	263	FSL	1790	FWL	25S	27E	8	Aliquot NENW	32.152612	-104.215193	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 97126	-3932	7435	7283	N

Operator Name: CIMAREX ENERGY COMPANY

Well Name: WHITE CITY 8-17-20 FEDERAL COM **Well Number:** 1H

Wellbore	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	Will this well produce from this
PPP Leg #1-1	100	FNL	2178	FWL	25S	27E	8	Aliquot NENW	32.151614	-104.213923	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 97126	-4486	8185	7837	Y
PPP Leg #1-2	0	FNL	2202	FWL	25S	27E	17	Aliquot NENW	32.137318	-104.213795	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 113954	-4586	13387	7937	Y
PPP Leg #1-3	1326	FNL	2225	FWL	25S	27E	20	Aliquot SENW	32.119099	-104.213633	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 130854	-4599	19771	7950	Y
EXIT Leg #1	100	FSL	2178	FWL	25S	27E	20	Aliquot SESW	32.108443	-104.213538	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 130854	-4647	23932	7998	Y
BHL Leg #1	100	FSL	2178	FWL	25S	27E	20	Aliquot SESW	32.108443	-104.213538	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 130854	-4647	23932	7998	Y

April 24, 2023

Bureau of Land Management
Carlsbad Field Office
620 E Green Street
Carlsbad, NM 88220

Re: Designation of Authorized Agent for AFMSS II & WIS

To whom it may concern:

This letter is to inform you that UELS, LLC dba Uintah Engineering & Land Surveying is authorized to act as Agent and to sign & submit documents on behalf of Coterra Energy, Inc (dba Cimarex Energy Co. and Cimarex Energy Co. of Colorado) when necessary for filing federal permits including Onshore Order No. 1, Right of Way applications, etc. through the Automated Fluid Minerals Support System (AFMSS II).

It should be understood that UELS is acting as Agent only in those matters stated above and is not responsible for drilling, completion, production or compliance with regulations.

Coterra Energy, Inc. agrees to accept full responsibility for operations conducted in order to drill, complete and produce oil and gas wells located on federally administered lands.

Sincerely,

Brittany Gordon
Regulatory Analyst
Coterra Energy, Inc.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-015-54886	97816	COTTON DRAW;BONE SPRING WC-015 G-02 S252715A

[4] Property Code	[5] Property Name	[6] Well Number
333146	WHITE CITY 8-17-20 FEDERAL COM	1H

[7] OGRID No.	[8] Operator Name	[9] Elevation
215099	CIMAREX ENERGY CO.	3353.7'

[10] Surface Location

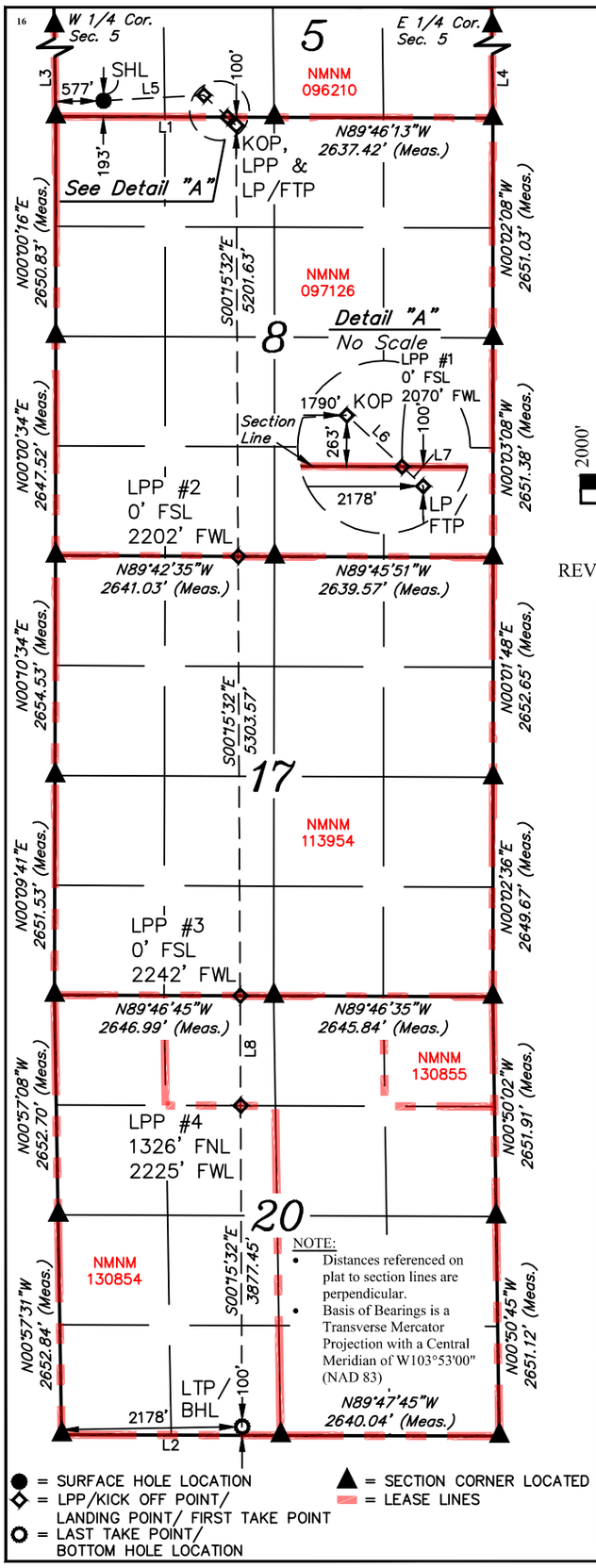
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	5	25S	27E		193	SOUTH	577	WEST	EDDY

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	20	25S	27E		100	SOUTH	2178	WEST	EDDY

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N89°47'30"W	2638.47'
L2	N89°48'34"W	2642.05'
L3	N00°58'58"W	2651.95'
L4	N00°30'47"W	2650.69'
L5	N86°53'08"E	1213.86'
L6	S47°05'17"E	387.83'
L7	S47°05'17"E	147.45'
L8	S00°15'32"E	1326.00'

2000' 1000' 0' 2000'

SCALE

DRAWN BY: D.J.S. 07-01-21
REV: 3 N.R. 11-24-23 (ADD LEASE LINES)

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°09'08.71" (32.152420°)
LONGITUDE = -104°13'08.79" (-104.219108°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°09'08.28" (32.152300°)
LONGITUDE = -104°13'07.00" (-104.218611°)
STATE PLANE NAD 83 (N.M. EAST)
N: 419204.57' E: 576687.36'
STATE PLANE NAD 27 (N.M. EAST)
N: 419147.01' E: 535504.34'

NAD 83 (KICK OFF POINT)
LATITUDE = 32°09'09.40" (32.152612°)
LONGITUDE = -104°12'54.69" (-104.215193°)
NAD 27 (KICK OFF POINT)
LATITUDE = 32°09'08.97" (32.152491°)
LONGITUDE = -104°12'52.91" (-104.214696°)
STATE PLANE NAD 83 (N.M. EAST)
N: 419275.57' E: 577898.86'
STATE PLANE NAD 27 (N.M. EAST)
N: 419217.99' E: 536715.82'

NAD 83 (LPP #1)
LATITUDE = 32°09'06.80" (32.151889°)
LONGITUDE = -104°12'51.38" (-104.214273°)
NAD 27 (LPP #1)
LATITUDE = 32°09'06.37" (32.151768°)
LONGITUDE = -104°12'49.59" (-104.213776°)
STATE PLANE NAD 83 (N.M. EAST)
N: 419012.75' E: 578183.95'
STATE PLANE NAD 27 (N.M. EAST)
N: 418955.18' E: 537000.89'

NAD 83 (LPP #3)
LATITUDE = 32°07'21.87" (32.122743°)
LONGITUDE = -104°12'49.20" (-104.213665°)
NAD 27 (LPP #3)
LATITUDE = 32°07'21.44" (32.122622°)
LONGITUDE = -104°12'47.41" (-104.213170°)
STATE PLANE NAD 83 (N.M. EAST)
N: 408410.49' E: 578383.65'
STATE PLANE NAD 27 (N.M. EAST)
N: 408353.11' E: 537200.42'

NAD 83 (LP/FTP)
LATITUDE = 32°09'05.81" (32.151614°)
LONGITUDE = -104°12'50.12" (-104.213923°)
NAD 27 (LP/FTP)
LATITUDE = 32°09'05.38" (32.151493°)
LONGITUDE = -104°12'48.34" (-104.213426°)
STATE PLANE NAD 83 (N.M. EAST)
N: 418912.84' E: 578292.33'
STATE PLANE NAD 27 (N.M. EAST)
N: 418855.26' E: 537109.27'

NAD 83 (LPP #4)
LATITUDE = 32°07'08.76" (32.119099°)
LONGITUDE = -104°12'49.08" (-104.213633°)
NAD 27 (LPP #4)
LATITUDE = 32°07'08.32" (32.118978°)
LONGITUDE = -104°12'47.29" (-104.213137°)
STATE PLANE NAD 83 (N.M. EAST)
N: 407084.84' E: 578395.17'
STATE PLANE NAD 27 (N.M. EAST)
N: 407027.49' E: 537211.92'

NAD 83 (LPP #2)
LATITUDE = 32°08'14.35" (32.137318°)
LONGITUDE = -104°12'49.66" (-104.213795°)
NAD 27 (LPP #2)
LATITUDE = 32°08'13.91" (32.137198°)
LONGITUDE = -104°12'47.88" (-104.213299°)
STATE PLANE NAD 83 (N.M. EAST)
N: 413712.61' E: 578337.55'
STATE PLANE NAD 27 (N.M. EAST)
N: 413655.14' E: 537154.41'

NAD 83 (LTP/BHL)
LATITUDE = 32°06'30.39" (32.108443°)
LONGITUDE = -104°12'48.74" (-104.213538°)
NAD 27 (LTP/BHL)
LATITUDE = 32°06'29.96" (32.108322°)
LONGITUDE = -104°12'46.95" (-104.213043°)
STATE PLANE NAD 83 (N.M. EAST)
N: 403208.44' E: 578428.87'
STATE PLANE NAD 27 (N.M. EAST)
N: 403151.16' E: 537245.55'

[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature Date

Printed Name

E-mail Address

[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

June 17, 2022

Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number:

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

Drilling Plan Data Report
03/07/2024

APD ID: 10400079522
Submission Date: 09/23/2021
Operator Name: CIMAREX ENERGY COMPANY
Well Name: WHITE CITY 8-17-20 FEDERAL COM
Well Number: 1H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
13055282	SALADO	0	1388	1388	ANHYDRITE	USEABLE WATER	N
13055280	LAMAR	-2178	2178	2195	ANHYDRITE	NONE	N
13055281	CHERRY CANYON	-3109	3109	3158	SANDSTONE	NONE	N
13055283	BRUSHY CANYON	-4118	4118	4204	SANDSTONE	NATURAL GAS, OIL	N
13055284	BONE SPRING	-5789	5789	5933	LIMESTONE	NATURAL GAS, OIL	N
13055285	BONE SPRING 1ST	-6703	6703	6854	LIMESTONE	NATURAL GAS, OIL	N
13055286	BONE SPRING 2ND	-6883	6883	7034	LIMESTONE	NATURAL GAS, OIL	N
13055287	BONE SPRING 3RD	-7589	7589	7756	LIMESTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M
Rating Depth: 23931

Equipment: A BOP consisting of three rams, including one blind ram and two pipe rams and one annular preventer. An accumulator that meets the requirements in Onshore Order #2 for the pressure rating of the BOP stack. A rotating head may be installed as needed. A Kelly clock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.
Requesting Variance? YES

Variance request: Co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used. Variance to include Hammer Union connections on lines downstream of the buffer tank only.

Testing Procedure: A multi-bowl wellhead will be utilized and will be tested per 43 CFR 3172 after installation on the surface casing. The testing interval shall be for 30 days. Whenever any seal subject to pressure is broken, a full BOPE test shall be performed.
Choke Diagram Attachment:

Choke_5M_20231206095120.pdf

BOP Diagram Attachment:

Operator Name: CIMAREX ENERGY COMPANY

Well Name: WHITE CITY 8-17-20 FEDERAL COM **Well Number:** 1H

Choke_5M_20231206095120.pdf

5M_BOP___R_148_BOP___01302024_20240214133025.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	NON API	N	0	450	0	450	3351	2901	450	H-40	48	ST&C	3.59	8.4	BUOY	14.91	BUOY	14.91
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	2175	0	2158	3325	1193	2175	J-55	36	LT&C	1.76	3.08	BUOY	5.07	BUOY	5.07
3	PRODUCTION	6.75	5.5	NEW	API	Y	0	7434	0	7434	3351	-4083	7434	HCL-80	20	LT&C	2.34	2.26	BUOY	2.89	BUOY	2.89
4	INTERMEDIATE	8.75	7.625	NEW	API	N	0	8184	0	7836	3325	-4485	8184	L-80	29.7	OTHER - TMK UP ULTRA FJ	1.31	1.88	BUOY	1.83	BUOY	1.83
5	PRODUCTION	6.75	5.0	NEW	API	Y	7434	23931	7434	7998	-4083	-4647	16497	P-110	18	BUTT	3.08	3.12	BUOY	57.13	BUOY	57.13

Casing Attachments

Casing ID: 1 **String** SURFACE

Inspection Document:

Spec Document:

Whit_City_8_17_20_Federal_Com_1H___Casing_Assumption_20240215091527.pdf

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

WHITE_CITY_8_17_FED_COM_E2W2_Casing_Assumptions_20210827074434.pdf

Operator Name: CIMAREX ENERGY COMPANY

Well Name: WHITE CITY 8-17-20 FEDERAL COM **Well Number:** 1H

Casing Attachments

Casing ID: 2 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing ID: 3 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Spec_Sheet_for_Tapered_Prod_5.5_23__P110RY_20240215085042.pdf

Casing Design Assumptions and Worksheet(s):

Casing ID: 4 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Operator Name: CIMAREX ENERGY COMPANY

Well Name: WHITE CITY 8-17-20 FEDERAL COM **Well Number:** 1H

Casing Attachments

Casing ID: 5 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Spec_Sheet_for_Tapered_Prod_5_18__P110RY_20240215090445.pdf

Casing Design Assumptions and Worksheet(s):

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	450	292	1.34	14.8	391	25	CLASS C	+ LCM
INTERMEDIATE	Lead		0	1875	413	1.88	12.9	776	44	35:65 (poz c)	+ SALT + BENTONITE
INTERMEDIATE	Tail		1875	2175	126	1.36	14.8	171	44	CLASS C	+ RETARDER
INTERMEDIATE	Lead	2325	1975	2325	82	3.64	10.3	298	45	TUNED LIGHT	+ LCM
INTERMEDIATE	Lead		2325	7184	202	3.64	10.3	735	45	TUNED LIGHT	+ LCM
INTERMEDIATE	Tail		7184	7434	97	1.3	14.2	126	45	50/50 (POZ H)	+ SALT + BENTONITE + FLUID LOSS + DISPERSANT + SMS
PRODUCTION	Lead		7984	23931	1590	1.3	14.2	2067	36	50:50 (Poz:H)	Salt + Bentonite + Fluid Loss + Dispersant + SMS

Operator Name: CIMAREX ENERGY COMPANY

Well Name: WHITE CITY 8-17-20 FEDERAL COM **Well Number:** 1H

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 will be kept on location at all times in order to combat lost circulation or unexpected kicks. In order to run DSTs, open hole logs, and casing, the viscosity and water loss may have to be adjusted in order to meet these needs

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

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	450	SPUD MUD	8.3	8.8							
450	2175	SALT SATURATED	9.7	10.2							
2175	8184	OTHER : Cut brine or OBM	8.5	9							
8184	23931	OTHER : OBM	10	10.5							

Operator Name: CIMAREX ENERGY COMPANY

Well Name: WHITE CITY 8-17-20 FEDERAL COM **Well Number:** 1H

Section 6 - Test, Logging, Coring

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

No DST Planned

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

COMPENSATED NEUTRON LOG,DIRECTIONAL SURVEY,GAMMA RAY LOG,

Coring operation description for the well:

N/A

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4366 **Anticipated Surface Pressure:** 2606

Anticipated Bottom Hole Temperature(F): 151

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

WHITE_CITY_8_17_FED_COM_1_E2W2_H2S_Plan_20210826142416.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

3D_ACSummary_10____Cimarex_White_City_8_17_Federal_Com_1H_20230923_20231212140000.pdf
Proposal_100____Cimarex_White_City_8_17_Federal_Com_1H_20230923_20231212140015.pdf
White_City_8_17_20_1H_Drill_Plan_REV2_20240214133459.pdf

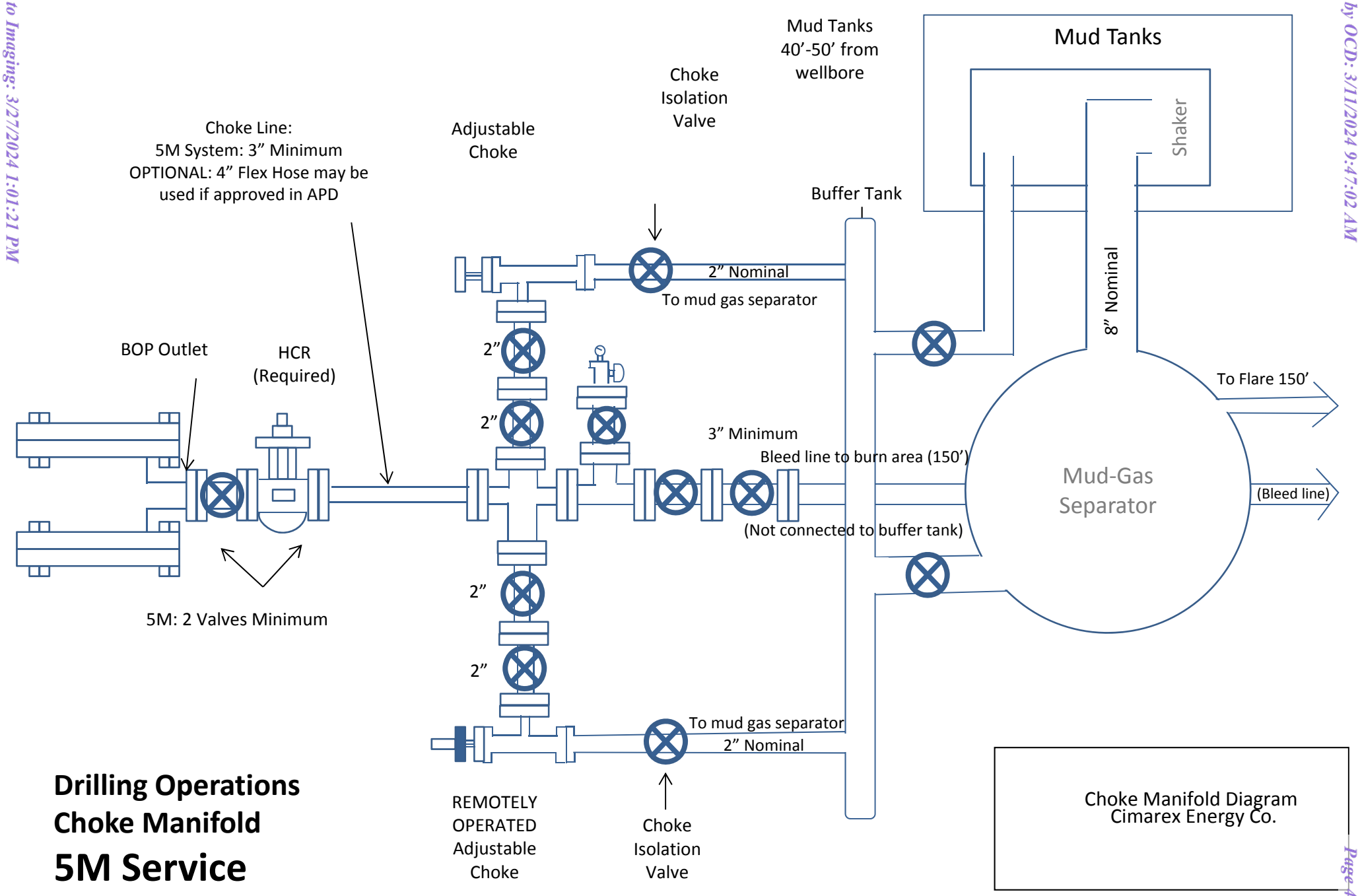
Other proposed operations facets description:

Other proposed operations facets attachment:

White_City_8_17_20_Federal_Com_1H___Typical_Rig_Layout___Exhibit_K_20231212140033.pdf
Multibowl_13.375_20231212140053.pdf

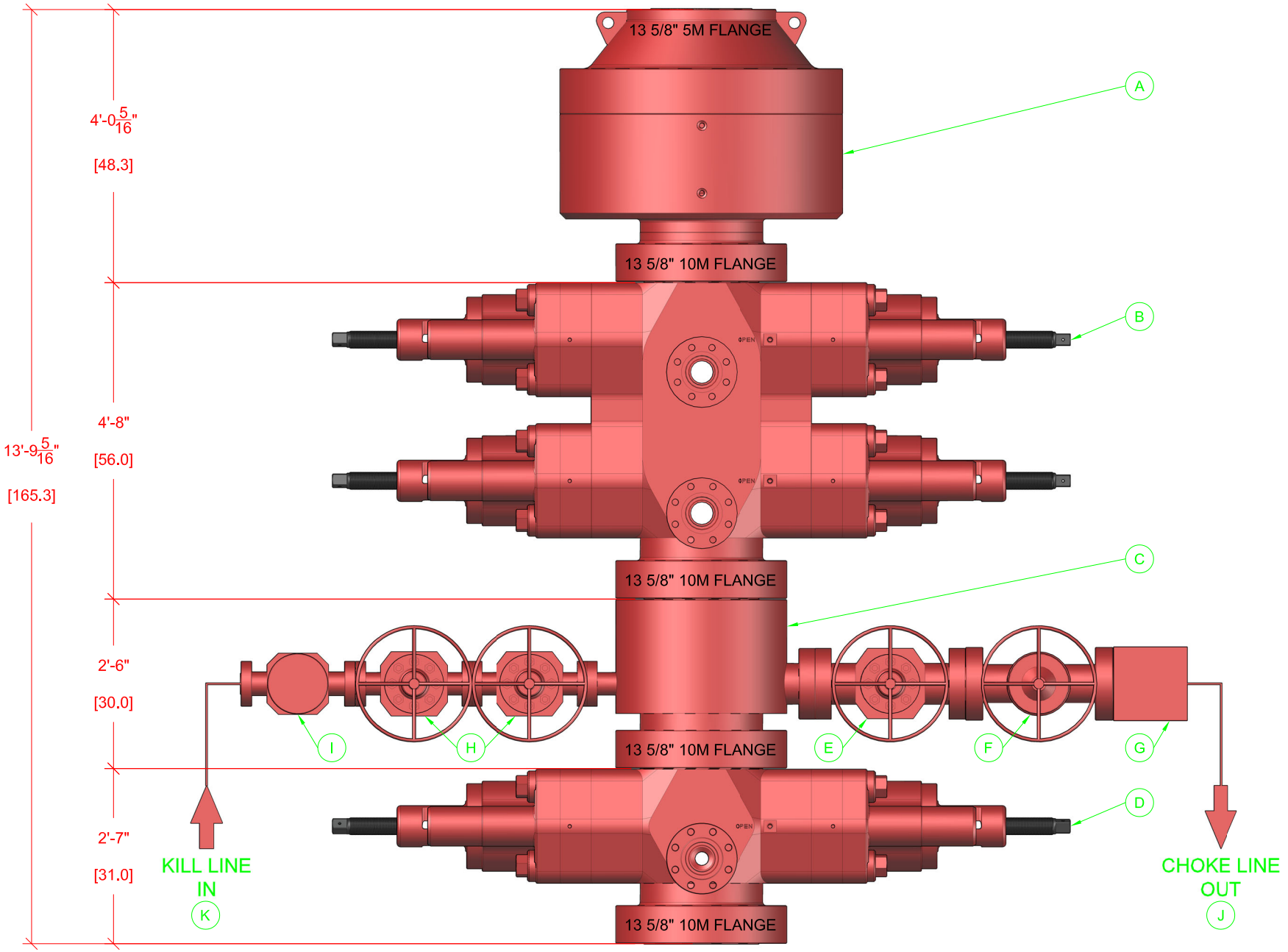
Other Variance attachment:

White_City_8_17_20_Federqal_Com_1H_NGMP_20231212140125.pdf
FLEX_HOSE_VARIANCE_API_16C___M14856___02072024___NEW_20240214134140.pdf
RIG_SKID_VARIANCE_VERBAIGE__TA_CAP_20240214133901.pdf



Drilling Operations
Choke Manifold
5M Service

Choke Manifold Diagram
Cimarex Energy Co.



BOP EQUIPMENT INFORMATION

DESCRIPTION	MODEL	QTY
ANNULAR BOP	13 5/8" 5M	1
DOUBLE RAM BOP	13 5/8" 10M TYPE-U	1
MUD CROSS	13 5/8" 10M	1
SINGLE RAM BOP	13 5/8" 10M TYPE-U	1
GATE VALVE	4 1/16" 10M FC MANUAL	1
HCR VALVE	4 1/16" 10M HCR	1

ITEM	DESCRIPTION	MODEL	QTY
G	STUDDED BLOCK	4 1/16" 10M	1
H	GATE VALE	2 1/16" 10M FC MANUAL	2
I	CHECK VALVE	2 1/16" 10M	1
J	CHOKE HOSE	4 1/16" 10M	1
K	KILL HOSE	2 1/16" 10M	1
L			

SYM	DATE	REVISION	BY

TOLERANCE UNLESS OTHERWISE SPECIFIED
DIMENSIONS IN INCHES

DECIMAL	DIMENSION	CONCENTRICITY
X.X	± .1	.1 F.I.R.
X.XX	± .06	.06 F.I.R.
X.XXX	± .010	.010 F.I.R.

ANGLES ± .5 DEGREES

ACAD FILE: CAC148-A-005-00-RO

CUSTOMER INFO:

FILE: R-148_BOP.dwg

DWG BY	IJA	9/10/2021
CHK BY		
APP BY		

SCALE: 1:25

CACTUS Drilling Co., L.L.C.
Oklahoma City, OK, U.S.A.
Tel: 405-577-5347 Fax: 405-577-9306

TITLE:
RIG 148
BOP STACK-UP

SIZE A | CAC148-A005 | SHEET 1/1

2. Casing Program

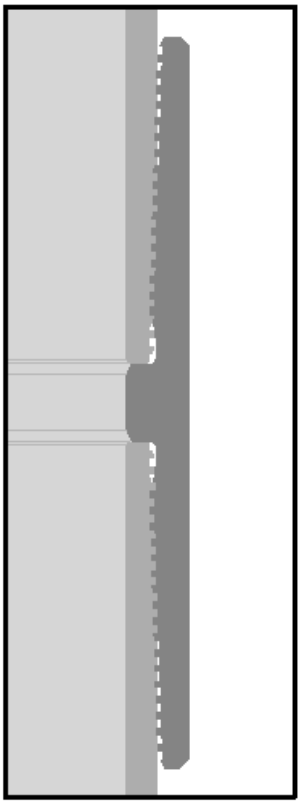
Hole Size	Casing Depth From	Casing Depth To	Setting Depth TVD	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17 1/2	0	450	450	13-3/8"	48.00	H-40/J-55 Hybrid	ST&C	3.59	8.40	14.91
12 1/4	0	2175	2158	9-5/8"	36.00	J-55	ST&C	1.76	3.08	5.07
8 3/4	0	8184	7836	7-5/8"	29.70	L-80	TMK UP Ultra FJ	1.31	1.88	1.83
6 3/4	0	7434	7434	5-1/2"	20.00	HCL-80	LT&C	2.34	2.26	2.89
6 3/4	7434	23931	7998	5"	18.00	P-110	BT&C	3.08	3.12	57.13
						BLM Minimum Safety Factor		1.125	1	1.6 Dry 1.8 Wet

Technical Specifications

Connection Type:	Size(O.D.):	Weight (Wall):	Grade:
DWC/C-IS PLUS Casing STANDARD	5-1/2 in	23.00 lb/ft (0.415 in)	VST P110 RY

	Material
VST P110 RY	Grade
110,000	Minimum Yield Strength (psi.)
125,000	Minimum Ultimate Strength (psi.)
	Pipe Dimensions
5.500	Nominal Pipe Body O.D. (in.)
4.670	Nominal Pipe Body I.D. (in.)
0.415	Nominal Wall Thickness (in.)
23.00	Nominal Weight (lbs./ft.)
22.56	Plain End Weight (lbs./ft.)
6.630	Nominal Pipe Body Area (sq. in.)
	Pipe Body Performance Properties
729,000	Minimum Pipe Body Yield Strength (lbs.)
14,540	Minimum Collapse Pressure (psi.)
14,530	Minimum Internal Yield Pressure (psi.)
13,300	Hydrostatic Test Pressure (psi.)
	Connection Dimensions
6.300	Connection O.D. (in.)
4.670	Connection I.D. (in.)
4.545	Connection Drift Diameter (in.)
4.13	Make-up Loss (in.)
6.630	Critical Area (sq. in.)
100.0	Joint Efficiency (%)
	Connection Performance Properties
729,000	Joint Strength (lbs.)
22,640	Reference String Length (ft) 1.4 Design Factor
759,000	API Joint Strength (lbs.)
729,000	Compression Rating (lbs.)
14,540	API Collapse Pressure Rating (psi.)
14,530	API Internal Pressure Resistance (psi.)
91.7	Maximum Uniaxial Bend Rating [degrees/100 ft]
	Approximated Field End Torque Values
17,700	Minimum Final Torque (ft.-lbs.)
20,400	Maximum Final Torque (ft.-lbs.)
23,000	Connection Yield Torque (ft.-lbs.)

VAM USA
2107 CityWest Boulevard Suite 1300
Houston, TX 77042
Phone: 713-479-3200
Fax: 713-479-3234
E-mail: VAMUSAsales@vam-usa.com



For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

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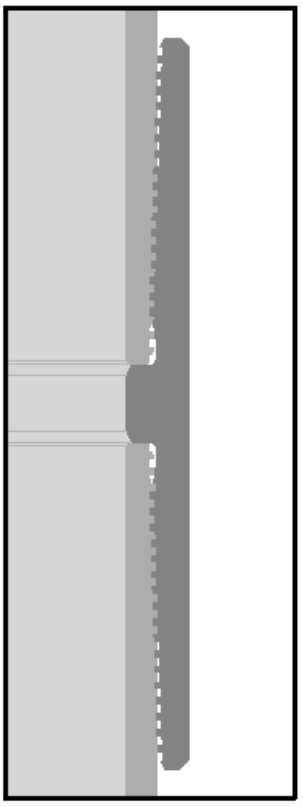
VAM USA
2107 CityWest Boulevard Suite 1300
Houston, TX 77042
Phone: 713-479-3200
Fax: 713-479-3234
E-mail: VAMUSAsales@vam-usa.com

DWC Connection Data Notes:

1. DWC connections are available with a seal ring (SR) option.
2. All standard DWC/C connections are interchangeable for a given pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
3. Connection performance properties are based on nominal pipe body and connection dimensions.
4. DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
7. Bending efficiency is equal to the compression efficiency.
8. The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
9. Connection yield torque is not to be exceeded.
10. Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
11. DWC connections will accommodate API standard drift diameters.



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White City 8-17 Federal Com E2W2

Casing Assumptions

Hole Size	Casing Depth From	Casing Depth To	Setting Depth TVD	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17 1/2	0	400	400	13-3/8"	48.00	H-40/J-55 Hybrid	ST&C	4.04	9.45	16.77
12 1/4	0	2142	2142	9-5/8"	36.00	J-55	LT&C	1.78	3.10	5.87
8 3/4	0	6432	6432	7"	29.00	L-80	LT&C	2.33	2.71	2.54
8 3/4	6432	8082	7970	7"	29.00	L-80	BT&C	1.88	2.19	15.16
6 1/8	6332	17774	7910	4-1/2"	11.60	HCP-110	BT&C	2.04	2.48	20.05
					BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet

TVD was used on all calculations.
All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Hydrogen Sulfide Drilling Operations Plan
Cimarex Energy Co.
UL: C, Sec. 8, 25S, 27E
Eddy Co., NM

1 All Company and Contract personnel admitted on location must be trained by a qualified H2S safety instructor to the following:

A. Characteristics of H_2S
B. Physical effects and hazards
C. Principal and operation of H2S detectors, warning system and briefing areas.
D. Evacuation procedure, routes and first aid.
E. Proper use of safety equipment & life support systems
F. Essential personnel meeting Medical Evaluation criteria will receive additional training on the proper use of 30 minute pressure demand air packs.

H_2S Detection and Alarm Systems:

A. H2S sensors/detectors to be located on the drilling rig floor, in the base of the sub structure/cellar area, on the mud pits in the shale shaker area. Additional H2S detectors may play placed as deemed necessary.

B. An audio alarm system will be installed on the derrick floor and in the top doghouse.

3 Windsock and/or wind streamers:

A. Windsock at mudpit area should be high enough to be visible.

B. Windsock on the rig floor and / or top doghouse should be high enough to be visible.

4 Condition Flags and Signs

A. Warning sign on access road to location.
B. Flags to be displayed on sign at entrance to location. Green flag indicates normal safe condition. Yellow flag indicates potential pressure and danger. Red flag indicates danger (H_2S present in dangerous concentration). Only H2S trained and certified personnel admitted to location.

5 Well control equipment:

A. See exhibit "E-1"

6 Communication:

A. While working under masks chalkboards will be used for communication.
B. Hand signals will be used where chalk board is inappropriate.
C. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.

7 Drillstem Testing:
No DSTs r cores are planned at this time.

8 Drilling contractor supervisor will be required to be familiar with the effects H_2S has on tubular goods and other mechanical equipment.

9 If H2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H2S scavengers if necessary.

H_2S Contingency Plan
Cimarex Energy Co.
UL: C, Sec. 8, 25S, 27E
Eddy Co., NM

Emergency Procedures

In the event of a release of gas containing H_2S, the first responder(s) must:

« Isolate the area and prevent entry by other persons into the 100 ppm ROE.
« Evacuate any public places encompassed by the 100 ppm ROE.
« Be equipped with H_2S monitors and air packs in order to control the release.
« Use the "buddy system" to ensure no injuries occur during the 432-620-1975
« Take precautions to avoid personal injury during this operation.
« Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
« Have received training in the:
  · Detection of H_2S, and
  · Measures for protection against the gas,
  · Equipment used for protection and emergency response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO_2). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas.

Characteristics of H_2S and SO_2

Please see attached International Chemical Safety Cards.

Contacting Authorities

Cimarex Energy Co. of Colorado's personnel must liaise with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. Cimarex Energy Co. of Colorado's response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

H_2S Contingency Plan Emergency Contacts
Cimarex Energy Co.
UL: C, Sec. 8, 25S, 27E
Eddy Co., NM

Company Office			
Cimarex Energy Co. of Colorado	800-969-4789		
Co. Office and After-Hours Menu			

Key Personnel

Name	Title	Office	Mobile
Larry Seigrist	Drilling Manager	432-620-1934	580-243-8485
Charlie Pritchard	Drilling Superintendent	432-620-1975	432-238-7084
Roy Shirley	Construction Superintendent		432-634-2136

Artesia			
Ambulance	911		
State Police	575-746-2703		
City Police	575-746-2703		
Sheriff's Office	575-746-9888		
Fire Department	**575-746-2701**		
Local Emergency Planning Committee	575-746-2122		
New Mexico Oil Conservation Division	575-748-1283		

Carlsbad			
Ambulance	911		
State Police	575-885-3137		
City Police	575-885-2111		
Sheriff's Office	575-887-7551		
Fire Department	**575-887-3798**		
Local Emergency Planning Committee	575-887-6544		
US Bureau of Land Management	575-887-6544		

Santa Fe			
New Mexico Emergency Response Commission (Santa Fe)	505-476-9600		
New Mexico Emergency Response Commission (Santa Fe) 24 Hrs	505-827-9126		
New Mexico State Emergency Operations Center	505-476-9635		

National			
National Emergency Response Center (Washington, D.C.)	800-424-8802		

Medical			
Flight for Life - 4000 24th St.; Lubbock, TX	806-743-9911		
Aerocare - R3, Box 49F; Lubbock, TX	806-747-8923		
Med Flight Air Amb - 2301 Yale Blvd S.E., #D3; Albuquerque, NM	505-842-4433		
SB Air Med Service - 2505 Clark Carr Loop S.E.; Albuquerque, NM	505-842-4949		

Other			
Boots & Coots IWC	800-256-9688	or	281-931-8884
Cudd Pressure Control	432-699-0139	or	432-563-3356
Halliburton	575-746-2757		
B.J. Services	575-746-3569		

Coterra White City 8-17-20 Federal Com 1H Rev2 mdv 21Sept23 Anti-Collision Summary Report

Analysis Date-24hr Time:	September 21, 2023 - 10:53 PM (UTC 0)	**Analysis Method:**	3D Least Distance
Client:	COTERRA	**Reference Trajectory:**	Coterra White City 8-17-20 Federal Com 1H Rev2 mdv 21Sept23 (Non-Def Plan)
Field:	NM Eddy County (NAD 83)	**Depth Interval:**	Every 10.00 Measured Depth (ft)
Structure:	Cimarex White City 8-17-20 Federal Com 1H	**Rule Set:**	NAL Procedure: D&M AntiCollision Standard S002
Slot:		**Min Pts:**	Absolute minima indicated.
Well:	White City 8-17-20 Federal Com 1H	**Engine Version:**	2023.1.0.1
Borehole:	White City 8-17-20 Federal Com 1H	**Database \ Project:**	White City 8-17-20 Federal Com 1H–COTERRA
Scan MD Range:	0.00ft ~ 17828.79ft		

Trajectory Error Model: ISCWSA0 3 - D 95 % Confidence 2.7955 sigma

Offset Trajectories Summary

Offset Selection Criteria
Bounding box scan: minimum Ct-Ct separation <= 10000ft
Selection filters: Definitive Surveys - Definitive Plans - Definitive surveys exclude definitive plans
- All Non-Def Surveys when no Def-Survey is set in a borehole - All Non-Def Plans when no Def-Plan is set in a borehole

15 out of 48 are selected

Offset Trajectory	Separation			Allow	Sep.	Controlling	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major		
Coterra White City 8-17 Federal Com 2H Rev3 mdv 21Sept23 (DefinitivePlan)													Warning Alert
	39.99	32.25	38.71	7.74	N/A	MAS = 9.83 (m)	0.00	0.00	CtCt<=15m<15.00			Enter Alert	
	39.99	32.25	38.71	7.74	N/A	MAS = 9.83 (m)	25.00	25.00				WRP	
	39.99	32.25	27.31	7.74	3.40	MAS = 9.83 (m)	1200.00	1200.00				MinPts	
	40.15	32.25	27.17	7.90	3.32	MAS = 9.83 (m)	1230.00	1230.00				MinPt-EOU	
	41.40	32.25	27.83	9.15	3.26	MAS = 9.83 (m)	1290.00	1289.99				MinPt-SF	
	81.76	32.25	64.55	49.51	4.98	MAS = 9.83 (m)	1690.00	1687.61	OSF>5.00			Exit Alert	
	995.09	111.76	920.26	883.34	13.46	OSF1.50	7440.00	7288.86				MinPt-CtCt	
	995.14	111.90	920.21	883.24	13.44	OSF1.50	7450.00	7298.85				MinPt-EOU	
	995.28	112.05	920.25	883.22	13.43	OSF1.50	7460.00	7308.85				MinPt-ADP	
	999.53	113.03	923.85	886.51	13.37	OSF1.50	7540.00	7388.26				MinPt-SF	
Cimarex White City 8 Federal 3H XEM+MWD 0ft to 11776 (DefinitiveSurvey)													Warning Alert
	5370.55	32.81	5368.57	5337.74	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	5369.95	32.81	5367.87	5337.14	54876.91	MAS = 10.00 (m)	25.00	25.00				MinPt-SF	
	349.26	112.35	270.94	236.91	4.98	OSF1.50	8250.00	7853.09	OSF<5.00			Enter Alert	
	340.21	124.44	253.99	215.77	4.32	OSF1.50	8340.00	7873.00				MinPt-CtCt	
	342.18	130.40	252.12	211.78	4.12	OSF1.50	8380.00	7880.93				MinPt-EOU	
	344.55	133.13	252.78	211.42	4.06	OSF1.50	8400.00	7884.67				MinPt-ADP	
	356.89	140.21	260.67	216.68	3.96	OSF1.50	8460.00	7895.03				MinPt-SF	
	420.29	136.01	326.94	284.28	4.83	OSF1.50	9060.00	7929.61				MinPt-EOU	
	420.22	135.71	327.09	284.51	4.84	OSF1.50	9080.00	7929.70				MinPt-CtCt	
	423.30	132.78	332.12	290.53	4.99	OSF1.50	9230.00	7930.39	OSF>5.00			Exit Alert	
	423.12	132.14	332.37	290.98	5.02	OSF1.50	9260.00	7930.53				MinPt-CtCt	
	424.96	128.77	336.45	296.19	5.18	OSF1.50	9440.00	7931.36				MinPt-CtCt	
	426.26	124.55	340.53	301.71	5.39	OSF1.50	9620.00	7932.19				MinPt-ADP	
	425.70	123.89	340.42	301.80	5.41	OSF1.50	9650.00	7932.32				MinPt-EOU	
	425.42	123.13	340.67	302.29	5.44	OSF1.50	9690.00	7932.51				MinPt-CtCt	
	424.25	119.95	341.58	304.30	5.58	OSF1.50	9820.00	7933.11				MinPt-ADP	
	423.47	119.03	341.42	304.43	5.62	OSF1.50	9870.00	7933.34				MinPt-EOU	
	422.13	115.18	342.64	306.95	5.80	OSF1.50	10100.00	7934.39				MinPt-EOU	
	421.97	114.83	342.73	307.15	5.82	OSF1.50	10130.00	7934.53				MinPt-CtCt	
	427.88	111.08	351.15	316.80	6.11	OSF1.50	10780.00	7937.52				MinPts	
	428.09	111.13	351.34	316.96	6.11	OSF1.50	10810.00	7937.66				MinPt-SF	
	430.71	110.85	354.13	319.85	6.17	OSF1.50	10970.00	7938.39				MinPt-ADP	
	430.69	110.84	354.13	319.85	6.17	OSF1.50	10980.00	7938.44				MinPt-EOU	
	430.69	110.82	354.13	319.87	6.17	OSF1.50	10990.00	7938.49				MinPt-CtCt	
	448.23	114.72	369.05	333.51	6.19	OSF1.50	11890.00	7942.62				MinPt-CtCt	
	447.13	119.95	364.43	327.19	5.89	OSF1.50	12300.00	7944.51				MinPt-CtCt	
	447.49	121.07	364.04	326.42	5.84	OSF1.50	12370.00	7944.83				MinPt-EOU	
	447.91	121.58	364.12	326.32	5.82	OSF1.50	12400.00	7944.97				MinPt-ADP	
	453.11	124.05	367.70	329.06	5.76	OSF1.50	12540.00	7945.61				MinPt-SF	
Final Survey - Cimarex Scoter 6-31 Federal Com 44H MWD 0ft-18616ft (Surcon Corrected) (DefinitiveSurvey)													Pass
	916.83	32.81	915.55	884.02	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	916.67	32.81	915.37	883.87	48638.43	MAS = 10.00 (m)	10.00	10.00				MinPt-SF	
	916.63	32.81	915.34	883.82	1732658.00	MAS = 10.00 (m)	25.00	25.00				WRP	
	912.79	32.81	907.07	879.98	198.54	MAS = 10.00 (m)	690.00	690.00				MinPts	
	913.03	32.81	906.86	880.22	180.91	MAS = 10.00 (m)	750.00	750.00				MinPt-EOU	
	2149.68	81.54	2095.00	2068.14	40.01	OSF1.50	7460.00	7308.85				MinPt-CtCt	
	2149.74	81.64	2094.99	2068.10	39.96	OSF1.50	7470.00	7318.83				MinPts	
	2159.11	82.43	2103.83	2076.68	39.75	OSF1.50	7600.00	7446.57				MinPt-SF	
Cimarex Cottonberry 20 Federal 2H Survey MWD 0ft to 12651ft (DefinitiveSurvey)													Pass
	10911.89	32.81	10909.91	10879.08	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	10911.42	32.81	10909.36	10878.61	136631.73	MAS = 10.00 (m)	25.00	25.00				MinPt-SF	
	10898.29	32.81	10886.88	10865.48	1156.47	MAS = 10.00 (m)	1390.00	1389.86				MinPt-EOU	
	10749.31	86.87	10690.84	10662.44	189.23	OSF1.50	6080.00	5932.31				MinPt-CtCt	
	10744.22	92.10	10682.28	10652.13	178.12	OSF1.50	6530.00	6378.88				MinPt-CtCt	
	10744.40	92.74	10682.02	10651.66	176.91	OSF1.50	6600.00	6448.86				MinPt-EOU	
	10739.07	96.86	10673.95	10642.21	169.12	OSF1.50	7100.00	6948.86				MinPt-CtCt	
	10739.34	97.64	10673.69	10641.70	167.82	OSF1.50	7190.00	7038.86				MinPt-EOU	
	10739.70	98.07	10673.76	10641.63	167.11	OSF1.50	7240.00	7088.86				MinPt-ADP	
Cimarex Scoter 6 Federal Com #2H Gyro+MWD 0ft to 12027ft MD (DefinitiveSurvey)													Pass
	1106.21	32.81	1104.23	1073.40	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	1106.12	32.81	1104.13	1073.31	117986.25	MAS = 10.00 (m)	10.00	10.00				MinPt-SF	
	1106.10	32.81	1104.12	1073.29	1402437.61	MAS = 10.00 (m)	20.00	20.00				MinPts	
	1106.10	32.81	1104.12	1073.30	528593.70	MAS = 10.00 (m)	25.00	25.00				WRP	
	1106.70	32.81	1103.86	1073.89	1283.42	MAS = 10.00 (m)	170.00	170.00				MinPt-EOU	
	1117.88	32.81	1108.47	1085.07	150.16	MAS = 10.00 (m)	1090.00	1090.00				MinPts	
	1118.17	32.81	1107.78	1085.37	132.73	MAS = 10.00 (m)	1220.00	1220.00				MinPt-EOU	
	2217.68	85.45	2160.17	2132.23	39.65	OSF1.50	7340.00	7188.86				MinPt-CtCt	
	2217.68	85.48	2160.15	2132.20	39.64	OSF1.50	7350.00	7198.86				MinPts	
	2220.76	86.02	2162.81	2134.74	39.53	OSF1.50	7470.00	7318.83				MinPt-SF	
Survey White City 8 Federal #4H MWD 0ft to 12013ft (DefinitiveSurvey)													Pass

Results highlighted in red: Sep-Factor <= 1.5
Result highlighted in boxed, red and bold: all local minima indicated.

Offset Trajectory	Separation			Allow	Sep.	Controlling	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major		
	5825.43	32.81	5823.45	5792.62	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	5824.97	32.81	5822.92	5792.16	79733.88	MAS = 10.00 (m)	25.00	25.00				MinPt-SF	
	1213.00	287.95	1019.99	925.05	6.37	OSF1.50	8500.00	7901.19				MinPt-SF	
	1211.08	287.17	1018.60	923.91	6.38	OSF1.50	8510.00	7902.63				MinPts	
	1187.63	237.39	1028.24	950.24	7.59	OSF1.50	8700.00	7922.76				MinPt-ADP	
	1177.31	229.57	1023.05	947.74	7.79	OSF1.50	8830.00	7928.36				MinPt-ADP	
	1176.99	229.20	1022.98	947.79	7.80	OSF1.50	8840.00	7928.51				MinPt-EOU	
	1173.18	220.16	1025.15	953.02	8.11	OSF1.50	9020.00	7929.43				MinPt-ADP	
	1170.76	217.31	1024.64	953.45	8.20	OSF1.50	9100.00	7929.79				MinPt-EOU	
	1168.88	212.10	1026.25	956.78	8.39	OSF1.50	9250.00	7930.48				MinPt-CtCt	
	1156.29	151.94	1053.67	1004.35	11.68	OSF1.50	11110.00	7939.04				MinPt-ADP	
	1156.18	151.82	1053.64	1004.36	11.69	OSF1.50	11120.00	7939.08				MinPt-EOU	
	1141.33	142.15	1045.28	999.19	12.34	OSF1.50	11900.00	7942.67				MinPts	
	1141.34	142.16	1045.28	999.18	12.34	OSF1.50	11910.00	7942.72				MinPt-ADP	
	1141.68	142.20	1045.59	999.48	12.34	OSF1.50	11960.00	7942.95				MinPt-SF	
	1144.82	142.12	1048.81	1002.70	12.37	OSF1.50	12370.00	7944.83				MinPts	
	1139.68	144.05	1042.41	995.63	12.14	OSF1.50	12650.00	7946.12				MinPt-CtCt	
	1139.86	144.59	1042.23	995.27	12.10	OSF1.50	12690.00	7946.30				MinPt-EOU	
	1139.97	144.73	1042.25	995.25	12.09	OSF1.50	12700.00	7946.35				MinPt-ADP	
	1154.54	148.39	1054.37	1006.15	11.93	OSF1.50	12940.00	7947.45				MinPt-SF	
Cimarex White City 8 Federal #2H ST01 MWD 6597ft to 11726ft (DefinitiveSurvey)													Pass
	5166.23	32.81	5164.25	5133.42	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	5165.76	32.81	5163.70	5132.95	69368.24	MAS = 10.00 (m)	25.00	25.00				MinPt-SF	
	5165.06	32.81	5162.75	5132.25	15338.52	MAS = 10.00 (m)	110.00	110.00				MinPts	
	5168.84	32.81	5160.00	5136.03	753.12	MAS = 10.00 (m)	950.00	950.00				MinPt-EOU	
	5165.12	32.81	5153.36	5132.31	527.82	MAS = 10.00 (m)	1390.00	1389.86				MinPt-EOU	
	5164.44	32.81	5151.76	5131.63	473.14	MAS = 10.00 (m)	1580.00	1578.89				MinPts	
	5165.08	32.81	5151.20	5132.27	425.77	MAS = 10.00 (m)	1760.00	1756.44				MinPt-EOU	
	1266.77	248.34	1099.87	1018.43	7.75	OSF1.50	7590.00	7436.96				MinPt-CtCt	
	1266.92	248.94	1099.59	1017.98	7.74	OSF1.50	7610.00	7456.13				MinPt-EOU	
	1267.13	249.23	1099.59	1017.90	7.73	OSF1.50	7620.00	7465.64				MinPt-ADP	
	1279.60	253.54	1109.03	1026.07	7.68	OSF1.50	7760.00	7591.64				MinPt-SF	
	1764.02	139.68	1669.74	1624.34	19.39	OSF1.50	11850.00	7942.44				MinPt-SF	
	1789.94	138.34	1696.56	1651.60	19.87	OSF1.50	12150.00	7943.82				MinPt-SF	
	1859.77	143.05	1763.19	1716.72	19.97	OSF1.50	12980.00	7947.64				MinPt-SF	
	3941.55	142.65	3845.46	3798.90	42.29	OSF1.50	16330.00	7963.04				MinPt-SF	
Cimarex Cottonberry 20 Federal #3H MWD 0ft to 12324ft (DefinitiveSurvey)													Pass
	10931.00	32.81	10929.02	10898.19	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	10930.53	32.81	10928.47	10897.72	136329.27	MAS = 10.00 (m)	25.00	25.00				MinPt-SF	
	10915.17	32.81	10906.87	10882.36	1726.05	MAS = 10.00 (m)	950.00	950.00				MinPts	
	10915.51	32.81	10906.51	10882.70	1554.45	MAS = 10.00 (m)	1050.00	1050.00				MinPt-EOU	
	10918.01	32.81	10906.64	10885.20	1163.06	MAS = 10.00 (m)	1390.00	1389.86				MinPt-EOU	
	10840.68	75.88	10789.49	10764.80	219.47	OSF1.50	5390.00	5264.25				MinPt-EOU	
	10840.64	77.33	10788.54	10763.31	214.85	OSF1.50	5490.00	5360.84				MinPt-CtCt	
	10842.47	84.21	10785.78	10758.26	197.03	OSF1.50	5910.00	5766.56				MinPt-EOU	
	10843.74	85.78	10786.00	10757.97	193.40	OSF1.50	6010.00	5863.79				MinPt-ADP	
	10845.54	87.45	10786.69	10758.09	189.59	OSF1.50	6130.00	5981.46				MinPt-ADP	
	10841.44	92.52	10779.22	10748.92	178.87	OSF1.50	6600.00	6448.86				MinPt-CtCt	
	10841.72	93.31	10778.97	10748.41	177.33	OSF1.50	6700.00	6548.86				MinPt-EOU	
	10842.17	93.86	10779.06	10748.31	176.28	OSF1.50	6770.00	6618.86				MinPt-ADP	
	10845.88	97.38	10780.42	10748.50	169.86	OSF1.50	7220.00	7068.86				MinPt-EOU	
	10846.15	97.70	10780.48	10748.45	169.30	OSF1.50	7260.00	7108.86				MinPt-ADP	
Chevron Hayhurst 17 Fed 1H MWD 0ft-12151ft (DefinitiveSurvey)													Pass
	5558.56	32.81	5556.58	5525.75	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	5558.16	32.81	5556.11	5525.35	87431.88	MAS = 10.00 (m)	25.00	25.00				MinPt-SF	
	5557.61	32.81	5555.37	5524.80	20905.19	MAS = 10.00 (m)	100.00	100.00				MinPts	
	5558.28	32.81	5554.72	5525.48	3504.12	MAS = 10.00 (m)	280.00	280.00				MinPt-EOU	
Final Survey - Cimarex Cottonberry 20 Federal 5H MWD 0ft-12828ft (Surcon Corrected) (DefinitiveSurvey)													Pass
	11773.45	32.81	11772.16	11740.64	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	11773.04	32.81	11771.68	11740.23	170728.09	MAS = 10.00 (m)	25.00	25.00				WRP	
	11771.68	32.81	11769.35	11738.87	11260.74	MAS = 10.00 (m)	210.00	210.00				MinPts	
	11772.59	32.81	11768.47	11739.79	4150.77	MAS = 10.00 (m)	460.00	460.00				MinPt-EOU	
	11773.30	32.81	11768.07	11740.50	2981.55	MAS = 10.00 (m)	600.00	600.00				MinPt-EOU	
	11773.08	32.81	11767.22	11740.27	2429.37	MAS = 10.00 (m)	730.00	730.00				MinPts	
Cimarex White City 8 Federal #2H Pilot Survey 0ft to 8192ft MD (DefinitiveSurvey)													Pass
	5166.23	32.81	5164.25	5133.42	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	5165.76	32.81	5163.70	5132.95	69368.24	MAS = 10.00 (m)	25.00	25.00				MinPt-SF	
	5165.06	32.81	5162.75	5132.25	15338.52	MAS = 10.00 (m)	110.00	110.00				MinPts	
	5168.84	32.81	5160.00	5136.03	753.12	MAS = 10.00 (m)	950.00	950.00				MinPt-EOU	
	5165.12	32.81	5153.36	5132.31	527.82	MAS = 10.00 (m)	1390.00	1389.86				MinPt-EOU	
	5164.44	32.81	5151.76	5131.63	473.14	MAS = 10.00 (m)	1580.00	1578.89				MinPts	
	5165.08	32.81	5151.20	5132.27	425.77	MAS = 10.00 (m)	1760.00	1756.44				MinPt-EOU	
	5394.54	92.20	5332.52	5302.34	89.34	OSF1.50	6720.00	6568.86				MinPt-EOU	
	5394.89	92.62	5332.59	5302.28	88.96	OSF1.50	6770.00	6618.86				MinPt-ADP	
	1904.40	145.86	1806.65	1758.54	19.78	OSF1.50	13040.00	7947.91				MinPt-CtCt	
	1904.52	146.17	1806.56	1758.35	19.74	OSF1.50	13060.00	7948.01				MinPt-EOU	
	1904.65	146.32	1806.60	1758.33	19.72	OSF1.50	13070.00	7948.05				MinPt-ADP	
	1922.22	149.29	1822.19	1772.94	19.50	OSF1.50	13300.00	7949.11				MinPt-SF	
Cimarex Cottonberry 20 Federal 1H MWD 0ft-12196ft MD [Surcon Corrected] (DefinitiveSurvey)													Pass
	11747.39	32.81	11746.26	11714.59	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	11746.99	32.81	11745.79	11714.18	170356.66	MAS = 10.00 (m)	25.00	25.00				WRP	
	11745.63	32.81	11743.53	11712.83	12053.12	MAS = 10.00 (m)	200.00	200.00				MinPts	
	11746.24	32.81	11742.92	11713.43	5379.91	MAS = 10.00 (m)	370.00	370.00				MinPt-EOU	
	11100.02	98.20	11033.96	11001.83	172.68	OSF1.50	7150.00	6998.86				MinPt-CtCt	
	11100.21	98.78	11033.76	11001.44	171.71	OSF1.50	7220.00	7068.86				MinPt-EOU	
	11100.42	99.03	11033.79	11001.38	171.30	OSF1.50	7250.00	7098.86				MinPt-ADP	
	2239.96	206.36	2101.18	2033.60	16.55	OSF1.50	17610.00	7968.93				MinPt-SF	
Cimarex Da Vinci 7 Federal Com #2H Gyro+MWD 0ft to 11690ft MD (DefinitiveSurvey)													Pass
	5291.05	32.81	5289.07	5258.24	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	5290.50	32.81	5288.43	5257.69	58860.81	MAS = 10.00 (m)	25.00	25.00				MinPt-SF	
	5289.46	32.81	5287.00	5256.65	11053.84	MAS = 10.00 (m)	130.00	130.00				MinPts	
	5290.07	32.81	5286.37	5257.26	3065.23	MAS = 10.00 (m)	300.00	300.00				MinPt-EOU	
	5298.32	32.81	5288.83	5265.51	705.38	MAS = 10.00 (m)	1090.00	1090.00				MinPts	
	5298.25	32.81	5287.77	5265.44	623.03	MAS = 10.00 (m)	1240.00	1240.00				MinPts	
	5298.44	32.81	5287.59	5265.63	596.86	MAS = 10.00 (m)	1300.00	1299.98				MinPt-EOU	
	2266.49	262.74	2090.38	2003.75	13.06	OSF1.50	7500.00	7348.71				MinPts	

Offset Trajectory	Separation			Allow	Sep.	Controlling	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major		
	2266.57	262.83	2090.39	2003.74	13.06	OSF1.50	7510.00	7358.64				MinPt-ADP	
	2268.34	263.27	2091.82	2005.07	13.06	OSF1.50	7560.00	7407.86				MinPt-SF	
	2804.43	138.37	2711.23	2666.06	31.01	OSF1.50	12340.00	7944.69				MinPt-SF	
	2923.19	149.74	2822.39	2773.45	29.83	OSF1.50	13450.00	7949.80				MinPt-SF	
	2966.68	151.91	2864.40	2814.77	29.86	OSF1.50	13630.00	7950.63				MinPt-SF	
	2986.96	152.96	2883.93	2834.00	29.88	OSF1.50	13710.00	7950.99				MinPt-SF	
COG Populus Federal 3H (Offset) API# 30-015-43256 Gyro 0ft-8600ft (DefinitiveSurvey)													Pass
	16082.66	32.81	16080.68	16049.85	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	16082.33	32.81	16080.29	16049.52	283394.21	MAS = 10.00 (m)	25.00	25.00				WRP	
	16081.07	32.81	16077.90	16048.26	13546.11	MAS = 10.00 (m)	230.00	230.00				MinPts	
	16083.26	32.81	16075.97	16050.45	3027.30	MAS = 10.00 (m)	800.00	800.00				MinPt-EOU	
	16086.33	32.81	16075.97	16053.53	1917.67	MAS = 10.00 (m)	1210.00	1210.00				MinPt-EOU	
	16087.47	32.81	16075.76	16054.66	1652.42	MAS = 10.00 (m)	1390.00	1389.86				MinPt-EOU	
	16087.10	32.81	16072.37	16054.29	1239.93	MAS = 10.00 (m)	1800.00	1795.62				MinPts	
	16088.44	32.81	16066.82	16055.63	809.91	MAS = 10.00 (m)	2530.00	2501.70				MinPts	
	16087.16	42.77	16058.06	16044.39	588.36	OSF1.50	3260.00	3206.82				MinPt-CtCt	
	16087.12	46.22	16055.72	16040.90	542.71	OSF1.50	3480.00	3419.33				MinPt-CtCt	
	16087.03	50.12	16053.03	16036.91	498.94	OSF1.50	3730.00	3660.81				MinPt-CtCt	
	16089.61	58.72	16049.88	16030.90	423.69	OSF1.50	4260.00	4172.75				MinPt-EOU	
	16098.36	70.79	16050.58	16027.57	349.78	OSF1.50	4980.00	4868.22				MinPt-EOU	
	16102.07	75.15	16051.38	16026.92	329.09	OSF1.50	5240.00	5119.36				MinPt-ADP	
	16125.29	90.68	16064.30	16034.61	271.54	OSF1.50	6180.00	6030.76				MinPts	
	16126.13	92.83	16063.70	16033.29	265.15	OSF1.50	6370.00	6219.23				MinPt-SF	
	16119.45	97.03	16054.22	16022.42	253.39	OSF1.50	6910.00	6758.86				MinPt-SF	
	15926.96	102.34	15858.19	15824.62	237.20	OSF1.50	7940.00	7725.81				MinPt-SF	
COG Populus Federal 3H (Offset) API# 30-015-43256 ST01 Gyro+MWD 0ft-12119ft (DefinitiveSurvey)													Pass
	16082.66	32.81	16080.68	16049.85	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	16082.33	32.81	16080.29	16049.52	283394.21	MAS = 10.00 (m)	25.00	25.00				WRP	
	16081.07	32.81	16077.90	16048.26	13546.11	MAS = 10.00 (m)	230.00	230.00				MinPts	
	16083.26	32.81	16075.97	16050.45	3027.30	MAS = 10.00 (m)	800.00	800.00				MinPt-EOU	
	16086.33	32.81	16075.97	16053.53	1917.67	MAS = 10.00 (m)	1210.00	1210.00				MinPt-EOU	
	16087.47	32.81	16075.76	16054.66	1652.42	MAS = 10.00 (m)	1390.00	1389.86				MinPt-EOU	
	16087.10	32.81	16072.37	16054.29	1239.93	MAS = 10.00 (m)	1800.00	1795.62				MinPts	
	16088.44	32.81	16066.82	16055.63	809.91	MAS = 10.00 (m)	2530.00	2501.70				MinPts	
	16087.16	42.77	16058.06	16044.39	588.36	OSF1.50	3260.00	3206.82				MinPt-CtCt	
	16087.12	46.22	16055.72	16040.90	542.71	OSF1.50	3480.00	3419.33				MinPt-CtCt	
	16087.03	50.12	16053.03	16036.91	498.94	OSF1.50	3730.00	3660.81				MinPt-CtCt	
	16089.61	58.72	16049.88	16030.90	423.69	OSF1.50	4260.00	4172.75				MinPt-EOU	
	16098.36	70.79	16050.58	16027.57	349.78	OSF1.50	4980.00	4868.22				MinPt-EOU	
	16102.07	75.15	16051.38	16026.92	329.09	OSF1.50	5240.00	5119.36				MinPt-ADP	
	16125.29	90.68	16064.30	16034.61	271.54	OSF1.50	6180.00	6030.76				MinPts	
	16126.13	92.83	16063.70	16033.29	265.15	OSF1.50	6370.00	6219.23				MinPt-SF	
	16118.54	98.47	16052.36	16020.07	249.60	OSF1.50	7090.00	6938.86				MinPt-CtCt	
	16118.78	99.17	16052.13	16019.61	247.81	OSF1.50	7180.00	7028.86				MinPt-EOU	
	16119.11	99.56	16052.20	16019.55	246.82	OSF1.50	7230.00	7078.86				MinPt-ADP	

Coterra White City 8-17-20 Federal Com 1H Rev2 mdv 21Sept23 Proposal
Geodetic Report
Non-Def Plan

Report Date:	September 21, 2023 - 10:53 PM (UTC 0)	**Survey / DLS Computation:**	Minimum Curvature / Lubinski
Client:	COTERRA	**Vertical Section Azimuth:**	179.500 °(GRID North)
Field:	NM Eddy County (NAD 83)	**Vertical Section Origin:**	0.000 ft, 0.000 ft
Structure / Slot:	Cimarex White City 8-17-20 Federal Com 1H	**TVD Reference Datum:**	RKB
Well:	White City 8-17-20 Federal Com 1H	**TVD Reference Elevation:**	3378.700 ft above MSL
Borehole:	White City 8-17-20 Federal Com 1H	**Seabed / Ground Elevation:**	3353.700 ft above MSL
UBHI / API#:	Unknown / Unknown	**Magnetic Declination:**	6.835°
Survey Name:	Coterra White City 8-17-20 Federal Com 1H Rev2 mdv 21Sept23	**Total Gravity Field Strength:**	998.43mgn (9.80665 Based)
Survey Date:	September 21, 2023	**Gravity Model:**	GARM
Tort / AHD / DDI / ERD Ratio:	138.839 ° / 17377.113 ft / 6.858 / 2.173	**Total Magnetic Field Strength:**	47381.936 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	**Magnetic Dip Angle:**	59.685°
Location Lat / Long:	32°9'8.71289"N , 104°13'8.78810"W	**Declination Date:**	September 21, 2023
Location Grid N/E Y/X:	N 419204.570 ftUS , E 576687.360 ftUS	**Magnetic Declination Model:**	HDGM 2023
CRS Grid Convergence Angle:	0.061°	**North Reference:**	Grid North
Grid Scale Factor:	0.99991052	**Grid Convergence Used:**	0.061°
Version / Patch:	2023.1.0.1	**Total Corr Mag North->Grid North:**	6.774°
		Local Coord Referenced To:	Well Head

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
SHL [193' FSL, 577' FWL]	0.00	0.00	86.65	0.00	-3,378.70	0.00	0.00	0.00		419,204.57	576,687.36	32.15242025	-104.21910780
	100.00	0.00	86.65	100.00	-3,278.70	0.00	0.00	0.00	0.00	419,204.57	576,687.36	32.15242025	-104.21910780
	200.00	0.00	86.65	200.00	-3,178.70	0.00	0.00	0.00	0.00	419,204.57	576,687.36	32.15242025	-104.21910780
	300.00	0.00	86.65	300.00	-3,078.70	0.00	0.00	0.00	0.00	419,204.57	576,687.36	32.15242025	-104.21910780
	400.00	0.00	86.65	400.00	-2,978.70	0.00	0.00	0.00	0.00	419,204.57	576,687.36	32.15242025	-104.21910780
	500.00	0.00	86.65	500.00	-2,878.70	0.00	0.00	0.00	0.00	419,204.57	576,687.36	32.15242025	-104.21910780
	600.00	0.00	86.65	600.00	-2,778.70	0.00	0.00	0.00	0.00	419,204.57	576,687.36	32.15242025	-104.21910780
	700.00	0.00	86.65	700.00	-2,678.70	0.00	0.00	0.00	0.00	419,204.57	576,687.36	32.15242025	-104.21910780
Rustler	728.70	0.00	86.65	728.70	-2,650.00	0.00	0.00	0.00	0.00	419,204.57	576,687.36	32.15242025	-104.21910780
	800.00	0.00	86.65	800.00	-2,578.70	0.00	0.00	0.00	0.00	419,204.57	576,687.36	32.15242025	-104.21910780
	900.00	0.00	86.65	900.00	-2,478.70	0.00	0.00	0.00	0.00	419,204.57	576,687.36	32.15242025	-104.21910780
	1,000.00	0.00	86.65	1,000.00	-2,378.70	0.00	0.00	0.00	0.00	419,204.57	576,687.36	32.15242025	-104.21910780
	1,100.00	0.00	86.65	1,100.00	-2,278.70	0.00	0.00	0.00	0.00	419,204.57	576,687.36	32.15242025	-104.21910780
Nudge, Build 2°/100ft	1,200.00	0.00	86.65	1,200.00	-2,178.70	0.00	0.00	0.00	0.00	419,204.57	576,687.36	32.15242025	-104.21910780
	1,300.00	2.00	86.65	1,299.98	-2,078.72	-0.09	0.10	1.74	2.00	419,204.67	576,689.10	32.15242052	-104.21910218
Top of Salt	1,388.84	3.78	86.65	1,388.70	-1,990.00	-0.31	0.36	6.21	2.00	419,204.93	576,693.57	32.15242123	-104.21908774
	1,400.00	4.00	86.65	1,399.84	-1,978.86	-0.35	0.41	6.97	2.00	419,204.98	576,694.33	32.15242135	-104.21908529
	1,500.00	6.00	86.65	1,499.45	-1,879.25	-0.78	0.92	15.67	2.00	419,205.49	576,703.03	32.15242273	-104.21905718
	1,600.00	8.00	86.65	1,598.70	-1,780.00	-1.39	1.63	27.83	2.00	419,206.20	576,715.19	32.15242465	-104.21901787
	1,700.00	10.00	86.65	1,697.47	-1,681.23	-2.17	2.55	43.45	2.00	419,207.12	576,730.80	32.15242712	-104.21896742
	1,800.00	12.00	86.65	1,795.62	-1,583.08	-3.12	3.66	62.50	2.00	419,208.23	576,749.85	32.15243013	-104.21890587
	1,900.00	14.00	86.65	1,893.06	-1,485.64	-4.24	4.98	84.95	2.00	419,209.55	576,772.30	32.15243368	-104.21883331
Hold	1,950.00	15.00	86.65	1,941.46	-1,437.24	-4.86	5.71	97.45	2.00	419,210.28	576,784.80	32.15243566	-104.21879293
Base of Salt	1,967.85	15.00	86.65	1,958.70	-1,420.00	-5.09	5.98	102.06	0.00	419,210.55	576,789.41	32.15243639	-104.21877803
	2,000.00	15.00	86.65	1,989.76	-1,388.94	-5.50	6.47	110.37	0.00	419,211.04	576,797.72	32.15243770	-104.21875119
	2,100.00	15.00	86.65	2,086.35	-1,292.35	-6.79	7.98	136.20	0.00	419,212.55	576,823.55	32.15244179	-104.21866770
Anhydrite	2,190.43	15.00	86.65	2,173.70	-1,205.00	-7.96	9.35	159.57	0.00	419,213.92	576,846.92	32.15244549	-104.21859220
Lamar	2,195.61	15.00	86.65	2,178.70	-1,200.00	-8.03	9.43	160.91	0.00	419,214.00	576,848.25	32.15244570	-104.21858788
	2,200.00	15.00	86.65	2,182.94	-1,195.76	-8.08	9.50	162.04	0.00	419,214.07	576,849.39	32.15244588	-104.21858422
	2,300.00	15.00	86.65	2,279.54	-1,099.16	-9.37	11.01	187.88	0.00	419,215.58	576,875.22	32.15244996	-104.21850073
Bell Canyon	2,330.19	15.00	86.65	2,308.70	-1,070.00	-9.76	11.47	195.68	0.00	419,216.04	576,883.02	32.15245120	-104.21847552
	2,400.00	15.00	86.65	2,376.13	-1,002.57	-10.66	12.52	213.72	0.00	419,217.09	576,901.06	32.15245405	-104.21841724
	2,500.00	15.00	86.65	2,472.72	-905.98	-11.95	14.04	239.56	0.00	419,218.61	576,926.89	32.15245814	-104.21833376
	2,600.00	15.00	86.65	2,569.31	-809.39	-13.24	15.55	265.39	0.00	419,220.12	576,952.73	32.15246222	-104.21825027
	2,700.00	15.00	86.65	2,665.91	-712.79	-14.53	17.07	291.23	0.00	419,221.64	576,978.56	32.15246631	-104.21816678
	2,800.00	15.00	86.65	2,762.50	-616.20	-15.81	18.58	317.07	0.00	419,223.15	577,004.40	32.15247039	-104.21808330
	2,900.00	15.00	86.65	2,859.09	-519.61	-17.10	20.10	342.91	0.00	419,224.66	577,030.23	32.15247448	-104.21799981
	3,000.00	15.00	86.65	2,955.68	-423.02	-18.39	21.61	368.74	0.00	419,226.18	577,056.07	32.15247857	-104.21791633
	3,100.00	15.00	86.65	3,052.28	-326.42	-19.68	23.12	394.58	0.00	419,227.69	577,081.90	32.15248265	-104.21783284
Cherry Canyon	3,158.41	15.00	86.65	3,108.70	-270.00	-20.43	24.01	409.67	0.00	419,228.58	577,097.00	32.15248504	-104.21778407
	3,200.00	15.00	86.65	3,148.87	-229.83	-20.97	24.64	420.42	0.00	419,229.21	577,107.74	32.15248674	-104.21774935
	3,300.00	15.00	86.65	3,245.46	-133.24	-22.26	26.15	446.26	0.00	419,230.72	577,133.58	32.15249082	-104.21766587
	3,400.00	15.00	86.65	3,342.05	-36.65	-23.55	27.67	472.09	0.00	419,232.23	577,159.41	32.15249491	-104.21758238
	3,500.00	15.00	86.65	3,438.65	59.95	-24.83	29.18	497.93	0.00	419,233.75	577,185.25	32.15249900	-104.21749889
	3,600.00	15.00	86.65	3,535.24	156.54	-26.12	30.70	523.77	0.00	419,235.26	577,211.08	32.15250308	-104.21741541
	3,700.00	15.00	86.65	3,631.83	253.13	-27.41	32.21	549.61	0.00	419,236.78	577,236.92	32.15250717	-104.21733192
	3,800.00	15.00	86.65	3,728.42	349.72	-28.70	33.72	575.44	0.00	419,238.29	577,262.75	32.15251125	-104.21724843
	3,900.00	15.00	86.65	3,825.02	446.32	-29.99	35.24	601.28	0.00	419,239.80	577,288.59	32.15251534	-104.21716495
	4,000.00	15.00	86.65	3,921.61	542.91	-31.28	36.75	627.12	0.00	419,241.32	577,314.42	32.15251942	-104.21708146
	4,100.00	15.00	86.65	4,018.20	639.50	-32.57	38.27	652.96	0.00	419,242.83	577,340.26	32.15252351	-104.21699798
	4,200.00	15.00	86.65	4,114.79	736.09	-33.86	39.78	678.80	0.00	419,244.35	577,366.09	32.15252759	-104.21691449
Brushy Canyon	4,204.04	15.00	86.65	4,118.70	740.00	-33.91	39.84	679.84	0.00	419,244.41	577,367.14	32.15252776	-104.21691111
	4,300.00	15.00	86.65	4,211.39	832.69	-35.14	41.30	704.63	0.00	419,245.86	577,391.93	32.15253168	-104.21683100
	4,400.00	15.00	86.65	4,307.98	929.28	-36.43	42.81	730.47	0.00	419,247.38	577,417.76	32.15253576	-104.21674752
	4,500.00	15.00	86.65	4,404.57	1,025.87	-37.72	44.32	756.31	0.00	419,248.89	577,443.60	32.15253985	-104.21666403
	4,600.00	15.00	86.65	4,501.16	1,122.46	-39.01	45.84	782.15	0.00	419,250.40	577,469.43	32.15254393	-104.21658054
	4,700.00	15.00	86.65	4,597.76	1,219.06	-40.30	47.35	807.98	0.00	419,251.92	577,495.27	32.15254802	-104.21649706
	4,800.00	15.00	86.65	4,694.35	1,315.65	-41.59	48.87	833.82	0.00	419,253.43	577,521.10	32.15255210	-104.21641357
	4,900.00	15.00	86.65	4,790.94	1,412.24	-42.88	50.38	859.66	0.00	419,254.95	577,546.94	32.15255619	-104.21633008
	5,000.00	15.00	86.65	4,887.54	1,508.84	-44.17	51.89	885.50	0.00	419,256.46	577,572.78	32.15256027	-104.21624660
	5,100.00	15.00	86.65	4,984.13	1,605.43	-45.45	53.41	911.33	0.00	419,257.97	577,598.61	32.15256436	-104.21616311
	5,200.00	15.00	86.65	5,080.72	1,702.02	-46.74	54.92	937.17	0.00	419,259.49	577,624.45	32.15256844	-104.21607962
	5,300.00	15.00	86.65	5,177.31	1,798.61	-48.03	56.44	963.01	0.00	419,261.00	577,650.28	32.15257253	-104.21599614
	5,400.00	15.00	86.65	5,273.91	1,895.21	-49.32	57.95	988.85	0.00	419,262.52	577,676.12	32.15257661	-104.21591265
	5,500.00	15.00	86.65	5,370.50	1,991.80	-50.61	59.47	1,014.68	0.00	419,264.03	577,701.95	32.15258070	-104.21582916
	5,600.00	15.00	86.65	5,467.09	2,088.39	-51.90	60.98	1,040.52	0.00	419,265.54	577,727.79	32.15258478	-104.21574568
	5,700.00	15.00	86.65	5,563.68	2,184.98	-53.19	62.49	1,066.36	0.00	419,267.06	577,753.62	32.15258887	-104.21566219
	5,800.00	15.00	86.65	5,660.28	2,281.58	-54.47	64.01	1,092.20	0.00	419,268.57	577,779.46	32.15259295	-104.21557871
Drop 2°/100ft	5,884.58	15.00	86.65	5,741.98	2,363.28	-55.56	65.29	1,114.05	0.00	419,269.85	577,801.31	32.15259641	-104.21550809
	5,900.00	14.69	86.65	5,756.88	2,378.18	-55.76	65.52	1,117.99	2.00	419,270.08	577,805.25	32.15259703	-104.21549535
Bone Spring Lime	5,932.85	14.03	86.65	5,788.70	2,410.00	-56.17	66.00	1,126.13	2.00	419,270.56	577,813.39	32.15259832	-104.21546906
	6,000.00	12.69	86.65	5,854.03	2,475.33	-56.94	66.90	1,141.62	2.00	419,271.47	577,828.88	32.15260076	-104.21541900
Leonard Shale	6,055.92	11.57	86.65	5,908.70	2,530.00	-57.53	67.59	1,153.35	2.00	419,272.16	577,840.61	32.15260262	-104.21538109
	6,100.00	10.69	86.65	5,951.95	2,573.25	-57.95	68.09	1,161.85	2.00	419,272.65	577,849.11	32.15260396	-104.21535364
	6,200.00	8.69	86.65	6,050.52	2,671.82	-58.79	69.08	1,178.66	2.00	419,273.64	577,865.91	32.15260662	-104.21529934
	6,300.00	6.69	86.65	6,149.62	2,770.92	-59.45	69.86	1,192.02	2.00	419,274.42	577,879.27	32.15260873	-104.21525617
	6,400.00	4.69	86.65	6,249.12	2,870.42	-59.95	70.44	1,201.92	2.00	419,275.00	577,889.17	32.15261030	-104.21522418
	6,500.00	2.69	86.65	6,348.90	2,970.20	-60.27	70.82	1,208.34	2.00	419,275.38	577,895.59	32.15261131	-104.21520341
	6,600.00	0.69	86.65	6,448.86	3,070.16	-60.41	70.99	1,211.29	2.00	419,275.55	577,898.54	32.15261178	-104.21519389
Hold	6,634.58	0.00	86.65	6,483.44	3,104.74	-60.43	71.00	1,211.50	2.00	419,275.56	577,898.75	32.15261181	-104.21519321
	6,700.00	0.00	86.65	6,548.86	3,170.16	-60.43	71.00	1,211.50	0.00	419,275.56	577,898.75	32.15261181	-104.21519321
	6,800.00	0.00	86.65	6,648.86	3,270.16	-60.43	71.00	1,211.50	0.00	419,275.56	577,898.75	32.15261181	-104.21519321
1st Bone Spring Sand	6,854.84	0.00	86.65	6,703.70	3,325.00	-60.43	71.00	1,211.50	0.00	419,275.56	577,898.75	32.15261181	-104.21519321
	6,900.00	0.00	86.65	6,748.86	3,370.16	-60.43	71.00	1,211.50	0.00	419,275.56	577,898.75	32.15261181	-104.21519321
	7,000.00	0.00	86.65	6,848.86	3,470.16	-60.43	71.00	1,211.50	0.00	419,275.56	577,898.75	32.15261181	-104.21519321
2nd Bone Spring Shale	7,034.84	0.00	86.65	6,883.70	3,505.00	-60.43	71.00	1,211.50	0.00	419,275.56	577,898.75	32.15261181	-104.21519321
	7,100.00	0.00	86.65	6,948.86	3,570.16	-60.43	71.00	1,211.50	0.00	419,275.56	577,898.75	32.15261181	-104.21519321
	7,200.00	0.00	86.65	7,048.86	3,670.16	-60.43	71.00	1,211.50	0.00	419,275.56	577,898.75	32.15261181	-104.21519321
	7,300.00	0.00	86.65	7,148.86	3,770.16	-60.43	71.00	1,211.50	0.00	419,275.56	577,898.75	32.15261181	-104.21519321
2nd Bone Spring Sand	7,349.84	0.00	86.65	7,198.70	3,820.00	-60.43	71.00	1,211.50	0.00	419,275.56	577,898.75	32.15261181	-104.21519321
	7,400.00	0.00	86.65	7,248.86	3,870.16	-60.43	71.00	1,211.50	0.00	419,275.56	577,898.75	32.15261181	-104.21519321
KOP, Build 10°/100ft	7,434.58	0.00	86.65	7,283.44	3,904.74	-60.43	71.00	1,211.50	0.00	419,275.56	577,898.75	32.15261181	-104.21519321
	7,500.00	6.54	148.67	7,348.71	3,970.01	-57.22	67.81	1,213.44	10.00	419,272.38	577,900.69	32.15260305	-104.21518696
	7,600.00	16.54	148.67	7,446.57	4,067.87	-40.06	50.74	1,223.83	10.00	419,255.31	577,911.08	32.15255610	-104.21515345
	7,700.00	26.54	148.67	7,539.46	4,160.76	-8.57	19.42	1,242.90	10.00	419,223.99	577,930.14	32.15246994	-104.21509195
3rd Bone Spring Carb	7,756.52	32.19	148.67	7,588.70	4,210.00	15.22	-4.25	1,257.30	10.00	419,200.33	577,944.55	32.15240485	-104.21504549
	7,800.00	36.54	148.67	7,624.58	4,245.88	36.29	-25.21	1,270.06	10.00	419,179.37	577,957.31	32.15234719	-104.21500434
	7,900.00	46.54	148.67	7,699.33	4,320.63	93.16	-81.78	1,304.50	10.00	419,122.80	577,991.74	32.15219158	-104.21489327
	8,000.00	56.54	148.67	7,761.45	4,382.75	160.32	-148.58	1,345.17	10.00	419,056.00	578,032.40	32.15200784	-104.21476212
Lease Line Cross	8,058.88	62.43	148.67	7,791.33	4,412.63	203.85	-191.89	1,371.53	10.00	419,012.69	578,058.76	32.15188872	-104.21467709
	8,100.00	66.54	148.67	7,809.04	4,430.34	235.71	-223.59	1,390.82	10.00	418,981.00	578,078.05	32.15180155	-104.21461488
FTP / 100ft FNL Cross	8,184.58	75.00	148.67	7,836.87	4,458.17	304.23	-291.74	1,432.31	10.00	418,912.86	578,119.54	32.15161409	-104.21448107
Build & Turn 5°/100ft	8,184.58	75.00	148.67	7,836.87	4,458.17	304.23	-291.74	1,432.31	10.00	418,912.85	578,119.54	32.15161408	-104.21448107

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
	8,200.00	75.30	149.40	7,840.83	4,462.13	317.08	-304.52	1,439.98	5.00	418,900.08	578,127.21	32.15157893	-104.21445634
	8,300.00	77.32	154.11	7,864.50	4,485.80	403.04	-390.09	1,485.92	5.00	418,814.51	578,173.15	32.15134359	-104.21430821
	8,400.00	79.42	158.75	7,884.67	4,505.97	493.13	-479.84	1,525.06	5.00	418,724.77	578,212.28	32.15109678	-104.21418207
	8,500.00	81.58	163.32	7,901.19	4,522.49	586.65	-573.09	1,557.10	5.00	418,631.54	578,244.31	32.15084038	-104.21407890
	8,600.00	83.80	167.84	7,913.92	4,535.22	682.90	-669.12	1,581.78	5.00	418,535.51	578,269.00	32.15057634	-104.21399948
	8,700.00	86.05	172.32	7,922.76	4,544.06	781.13	-767.20	1,598.94	5.00	418,437.44	578,286.15	32.15030668	-104.21394441
	8,800.00	88.33	176.77	7,927.66	4,548.96	880.60	-866.60	1,608.43	5.00	418,338.05	578,295.64	32.15003344	-104.21391410
Landing Point	8,861.37	89.74	179.50	7,928.70	4,550.00	941.94	-927.92	1,610.42	5.00	418,276.74	578,297.64	32.14986489	-104.21390788
	8,900.00	89.74	179.50	7,928.88	4,550.18	980.57	-966.55	1,610.76	0.00	418,238.11	578,297.97	32.14975870	-104.21390693
	9,000.00	89.74	179.50	7,929.33	4,550.63	1,080.57	-1,066.55	1,611.63	0.00	418,138.12	578,298.84	32.14948385	-104.21390447
	9,100.00	89.74	179.50	7,929.79	4,551.09	1,180.57	-1,166.54	1,612.50	0.00	418,038.14	578,299.71	32.14920899	-104.21390202
	9,200.00	89.74	179.50	7,930.25	4,551.55	1,280.57	-1,266.54	1,613.37	0.00	417,938.15	578,300.58	32.14893413	-104.21389956
	9,300.00	89.74	179.50	7,930.71	4,552.01	1,380.57	-1,366.53	1,614.24	0.00	417,838.16	578,301.45	32.14865927	-104.21389711
	9,400.00	89.74	179.50	7,931.17	4,552.47	1,480.56	-1,466.53	1,615.11	0.00	417,738.18	578,302.33	32.14838442	-104.21389465
	9,500.00	89.74	179.50	7,931.63	4,552.93	1,580.56	-1,566.52	1,615.98	0.00	417,638.19	578,303.20	32.14810956	-104.21389220
	9,600.00	89.74	179.50	7,932.09	4,553.39	1,680.56	-1,666.52	1,616.86	0.00	417,538.21	578,304.07	32.14783470	-104.21388974
	9,700.00	89.74	179.50	7,932.55	4,553.85	1,780.56	-1,766.51	1,617.73	0.00	417,438.22	578,304.94	32.14755984	-104.21388729
	9,800.00	89.74	179.50	7,933.01	4,554.31	1,880.56	-1,866.51	1,618.60	0.00	417,338.23	578,305.81	32.14728499	-104.21388483
	9,900.00	89.74	179.50	7,933.47	4,554.77	1,980.56	-1,966.50	1,619.47	0.00	417,238.25	578,306.68	32.14701013	-104.21388238
	10,000.00	89.74	179.50	7,933.93	4,555.23	2,080.56	-2,066.50	1,620.34	0.00	417,138.26	578,307.55	32.14673527	-104.21387992
	10,100.00	89.74	179.50	7,934.39	4,555.69	2,180.56	-2,166.49	1,621.21	0.00	417,038.28	578,308.42	32.14646041	-104.21387747
	10,200.00	89.74	179.50	7,934.85	4,556.15	2,280.56	-2,266.49	1,622.08	0.00	416,938.29	578,309.29	32.14618556	-104.21387501
	10,300.00	89.74	179.50	7,935.31	4,556.61	2,380.56	-2,366.48	1,622.95	0.00	416,838.30	578,310.16	32.14591070	-104.21387256
	10,400.00	89.74	179.50	7,935.77	4,557.07	2,480.55	-2,466.48	1,623.82	0.00	416,738.32	578,311.03	32.14563584	-104.21387010
	10,500.00	89.74	179.50	7,936.23	4,557.53	2,580.55	-2,566.47	1,624.69	0.00	416,638.33	578,311.90	32.14536098	-104.21386764
	10,600.00	89.74	179.50	7,936.69	4,557.99	2,680.55	-2,666.47	1,625.56	0.00	416,538.35	578,312.78	32.14508613	-104.21386519
	10,700.00	89.74	179.50	7,937.15	4,558.45	2,780.55	-2,766.46	1,626.44	0.00	416,438.36	578,313.65	32.14481127	-104.21386273
	10,800.00	89.74	179.50	7,937.61	4,558.91	2,880.55	-2,866.46	1,627.31	0.00	416,338.37	578,314.52	32.14453641	-104.21386028
	10,900.00	89.74	179.50	7,938.07	4,559.37	2,980.55	-2,966.45	1,628.18	0.00	416,238.39	578,315.39	32.14426155	-104.21385782
	11,000.00	89.74	179.50	7,938.53	4,559.83	3,080.55	-3,066.45	1,629.05	0.00	416,138.40	578,316.26	32.14398669	-104.21385537
	11,100.00	89.74	179.50	7,938.99	4,560.29	3,180.55	-3,166.44	1,629.92	0.00	416,038.42	578,317.13	32.14371184	-104.21385291
	11,200.00	89.74	179.50	7,939.45	4,560.75	3,280.55	-3,266.44	1,630.79	0.00	415,938.43	578,318.00	32.14343698	-104.21385046
	11,300.00	89.74	179.50	7,939.91	4,561.21	3,380.54	-3,366.43	1,631.66	0.00	415,838.44	578,318.87	32.14316212	-104.21384800
	11,400.00	89.74	179.50	7,940.37	4,561.67	3,480.54	-3,466.43	1,632.53	0.00	415,738.46	578,319.74	32.14288726	-104.21384555
	11,500.00	89.74	179.50	7,940.83	4,562.13	3,580.54	-3,566.42	1,633.40	0.00	415,638.47	578,320.61	32.14261241	-104.21384309
	11,600.00	89.74	179.50	7,941.29	4,562.59	3,680.54	-3,666.42	1,634.27	0.00	415,538.49	578,321.48	32.14233755	-104.21384064
	11,700.00	89.74	179.50	7,941.75	4,563.05	3,780.54	-3,766.41	1,635.14	0.00	415,438.50	578,322.35	32.14206269	-104.21383818
	11,800.00	89.74	179.50	7,942.21	4,563.51	3,880.54	-3,866.41	1,636.01	0.00	415,338.51	578,323.23	32.14178783	-104.21383573
	11,900.00	89.74	179.50	7,942.67	4,563.97	3,980.54	-3,966.40	1,636.89	0.00	415,238.53	578,324.10	32.14151297	-104.21383327
	12,000.00	89.74	179.50	7,943.13	4,564.43	4,080.54	-4,066.40	1,637.76	0.00	415,138.54	578,324.97	32.14123812	-104.21383082
	12,100.00	89.74	179.50	7,943.59	4,564.89	4,180.54	-4,166.40	1,638.63	0.00	415,038.56	578,325.84	32.14096326	-104.21382836
	12,200.00	89.74	179.50	7,944.05	4,565.35	4,280.53	-4,266.39	1,639.50	0.00	414,938.57	578,326.71	32.14068840	-104.21382591
	12,300.00	89.74	179.50	7,944.51	4,565.81	4,380.53	-4,366.39	1,640.37	0.00	414,838.58	578,327.58	32.14041354	-104.21382345
	12,400.00	89.74	179.50	7,944.97	4,566.27	4,480.53	-4,466.38	1,641.24	0.00	414,738.60	578,328.45	32.14013868	-104.21382100
	12,500.00	89.74	179.50	7,945.43	4,566.73	4,580.53	-4,566.38	1,642.11	0.00	414,638.61	578,329.32	32.13986383	-104.21381854
	12,600.00	89.74	179.50	7,945.89	4,567.19	4,680.53	-4,666.37	1,642.98	0.00	414,538.63	578,330.19	32.13958897	-104.21381609
	12,700.00	89.74	179.50	7,946.35	4,567.65	4,780.53	-4,766.37	1,643.85	0.00	414,438.64	578,331.06	32.13931411	-104.21381363
	12,800.00	89.74	179.50	7,946.81	4,568.11	4,880.53	-4,866.36	1,644.72	0.00	414,338.65	578,331.93	32.13903925	-104.21381118
	12,900.00	89.74	179.50	7,947.27	4,568.57	4,980.53	-4,966.36	1,645.59	0.00	414,238.67	578,332.80	32.13876439	-104.21380872
	13,000.00	89.74	179.50	7,947.73	4,569.03	5,080.53	-5,066.35	1,646.47	0.00	414,138.68	578,333.67	32.13848954	-104.21380627
	13,100.00	89.74	179.50	7,948.19	4,569.49	5,180.53	-5,166.35	1,647.34	0.00	414,038.70	578,334.55	32.13821468	-104.21380381
	13,200.00	89.74	179.50	7,948.65	4,569.95	5,280.52	-5,266.34	1,648.21	0.00	413,938.71	578,335.42	32.13793982	-104.21380136
	13,300.00	89.74	179.50	7,949.11	4,570.41	5,380.52	-5,366.34	1,649.08	0.00	413,838.72	578,336.29	32.13766496	-104.21379890
	13,400.00	89.74	179.50	7,949.57	4,570.87	5,480.52	-5,466.33	1,649.95	0.00	413,738.74	578,337.16	32.13739010	-104.21379645
Section 8-17 Line, NMNM09712(	13,426.10	89.74	179.50	7,949.69	4,570.99	5,506.62	-5,492.43	1,650.18	0.00	413,712.64	578,337.39	32.13731837	-104.21379581
	13,500.00	89.74	179.50	7,950.03	4,571.33	5,580.52	-5,566.33	1,650.82	0.00	413,638.75	578,338.03	32.13711525	-104.21379399
	13,600.00	89.74	179.50	7,950.49	4,571.79	5,680.52	-5,666.32	1,651.69	0.00	413,538.77	578,338.90	32.13684039	-104.21379154
	13,700.00	89.74	179.50	7,950.95	4,572.25	5,780.52	-5,766.32	1,652.56	0.00	413,438.78	578,339.77	32.13656553	-104.21378908
	13,800.00	89.74	179.50	7,951.41	4,572.71	5,880.52	-5,866.31	1,653.43	0.00	413,338.79	578,340.64	32.13629067	-104.21378663
	13,900.00	89.74	179.50	7,951.87	4,573.17	5,980.52	-5,966.31	1,654.30	0.00	413,238.81	578,341.51	32.13601581	-104.21378417
	14,000.00	89.74	179.50	7,952.33	4,573.63	6,080.52	-6,066.30	1,655.17	0.00	413,138.82	578,342.38	32.13574096	-104.21378172
	14,100.00	89.74	179.50	7,952.79	4,574.09	6,180.51	-6,166.30	1,656.05	0.00	413,038.84	578,343.25	32.13546610	-104.21377926
	14,200.00	89.74	179.50	7,953.25	4,574.55	6,280.51	-6,266.29	1,656.92	0.00	412,938.85	578,344.12	32.13519124	-104.21377681
	14,300.00	89.74	179.50	7,953.71	4,575.01	6,380.51	-6,366.29	1,657.79	0.00	412,838.86	578,345.00	32.13491638	-104.21377436
	14,400.00	89.74	179.50	7,954.17	4,575.47	6,480.51	-6,466.28	1,658.66	0.00	412,738.88	578,345.87	32.13464152	-104.21377190
	14,500.00	89.74	179.50	7,954.63	4,575.93	6,580.51	-6,566.28	1,659.53	0.00	412,638.89	578,346.74	32.13436667	-104.21376945
	14,600.00	89.74	179.50	7,955.09	4,576.39	6,680.51	-6,666.27	1,660.40	0.00	412,538.91	578,347.61	32.13409181	-104.21376699
	14,700.00	89.74	179.50	7,955.55	4,576.85	6,780.51	-6,766.27	1,661.27	0.00	412,438.92	578,348.48	32.13381695	-104.21376454
	14,800.00	89.74	179.50	7,956.01	4,577.31	6,880.51	-6,866.26	1,662.14	0.00	412,338.93	578,349.35	32.13354209	-104.21376208
	14,900.00	89.74	179.50	7,956.47	4,577.77	6,980.51	-6,966.26	1,663.01	0.00	412,238.95	578,350.22	32.13326723	-104.21375963
	15,000.00	89.74	179.50	7,956.93	4,578.23	7,080.51	-7,066.25	1,663.88	0.00	412,138.96	578,351.09	32.13299237	-104.21375717
	15,100.00	89.74	179.50	7,957.39	4,578.69	7,180.50	-7,166.25	1,664.75	0.00	412,038.98	578,351.96	32.13271752	-104.21375472
	15,200.00	89.74	179.50	7,957.85	4,579.15	7,280.50	-7,266.24	1,665.63	0.00	411,938.99	578,352.83	32.13244266	-104.21375226
	15,300.00	89.74	179.50	7,958.31	4,579.61	7,380.50	-7,366.24	1,666.50	0.00	411,839.00	578,353.70	32.13216780	-104.21374981
	15,400.00	89.74	179.50	7,958.77	4,580.07	7,480.50	-7,466.24	1,667.37	0.00	411,739.02	578,354.57	32.13189294	-104.21374735
	15,500.00	89.74	179.50	7,959.23	4,580.53	7,580.50	-7,566.23	1,668.24	0.00	411,639.03	578,355.45	32.13161808	-104.21374490
	15,600.00	89.74	179.50	7,959.69	4,580.99	7,680.50	-7,666.23	1,669.11	0.00	411,539.05	578,356.32	32.13134322	-104.21374244
	15,700.00	89.74	179.50	7,960.15	4,581.45	7,780.50	-7,766.22	1,669.98	0.00	411,439.06	578,357.19	32.13106837	-104.21373999
	15,800.00	89.74	179.50	7,960.61	4,581.91	7,880.50	-7,866.22	1,670.85	0.00	411,339.07	578,358.06	32.13079351	-104.21373754
	15,900.00	89.74	179.50	7,961.07	4,582.37	7,980.50	-7,966.21	1,671.72	0.00	411,239.09	578,358.93	32.13051865	-104.21373508
	16,000.00	89.74	179.50	7,961.53	4,582.83	8,080.49	-8,066.21	1,672.59	0.00	411,139.10	578,359.80	32.13024379	-104.21373263
	16,100.00	89.74	179.50	7,961.98	4,583.28	8,180.49	-8,166.20	1,673.46	0.00	411,039.12	578,360.67	32.12996893	-104.21373017
	16,200.00	89.74	179.50	7,962.44	4,583.74	8,280.49	-8,266.20	1,674.33	0.00	410,939.13	578,361.54	32.12969407	-104.21372772
	16,300.00	89.74	179.50	7,962.90	4,584.20	8,380.49	-8,366.19	1,675.20	0.00	410,839.14	578,362.41	32.12941922	-104.21372526
	16,400.00	89.74	179.50	7,963.36	4,584.66	8,480.49	-8,466.19	1,676.08	0.00	410,739.16	578,363.28	32.12914436	-104.21372281
	16,500.00	89.74	179.50	7,963.82	4,585.12	8,580.49	-8,566.18	1,676.95	0.00	410,639.17	578,364.15	32.12886950	-104.21372035
	16,600.00	89.74	179.50	7,964.28	4,585.58	8,680.49	-8,666.18	1,677.82	0.00	410,539.19	578,365.02	32.12859464	-104.21371790
	16,700.00	89.74	179.50	7,964.74	4,586.04	8,780.49	-8,766.17	1,678.69	0.00	410,439.20	578,365.89	32.12831978	-104.21371544
	16,800.00	89.74	179.50	7,965.20	4,586.50	8,880.49	-8,866.17	1,679.56	0.00	410,339.21	578,366.77	32.12804492	-104.21371299
	16,900.00	89.74	179.50	7,965.66	4,586.96	8,980.49	-8,966.16	1,680.43	0.00	410,239.23	578,367.64	32.12777007	-104.21371054
	17,000.00	89.74	179.50	7,966.12	4,587.42	9,080.48	-9,066.16	1,681.30	0.00	410,139.24	578,368.51	32.12749521	-104.21370808
	17,100.00	89.74	179.50	7,966.58	4,587.88	9,180.48	-9,166.15	1,682.17	0.00	410,039.26	578,369.38	32.12722035	-104.21370563
	17,200.00	89.74	179.50	7,967.04	4,588.34	9,280.48	-9,266.15	1,683.04	0.00	409,939.27	578,370.25	32.12694549	-104.21370317
	17,300.00	89.74	179.50	7,967.50	4,588.80	9,380.48	-9,366.14	1,683.91	0.00	409,839.28	578,371.12	32.12667063	-104.21370072
	17,400.00	89.74	179.50	7,967.96	4,589.26	9,480.48	-9,466.14	1,684.78	0.00	409,739.30	578,371.99	32.12639577	-104.21369826
	17,500.00	89.74	179.50	7,968.42	4,589.72	9,580.48	-9,566.13	1,685.66	0.00	409,639.31	578,372.86	32.12612091	-104.21369581
	17,600.00	89.74	179.50	7,968.88	4,590.18	9,680.48	-9,666.13	1,686.53	0.00	409,539.33	578,373.73	32.12584606	-104.21369335
	17,700.00	89.74	179.50	7,969.34	4,590.64	9,780.48	-9,766.12	1,687.40	0.00	409,439.34	578,374.60	32.12557120	-104.21369090
	17,800.00	89.74	179.50	7,969.80	4,591.10	9,880.48	-9,866.12	1,688.27	0.00	409,339.35	578,375.47	32.12529634	-104.21368845
	17,900.00	89.74	179.50	7,970.26	4,591.56	9,980.47	-9,966.11	1,689.14	0.00	409,239.37	578,376.34	32.12502148	-104.21368599
	18,000.00	89.74	179.50	7,970.72	4,592.02	10,080.47	-10,066.11	1,690.01	0.00	409,139.38	578,377.22	32.12474662	-104.21368354
	18,100.00	89.74	179.50	7,971.18	4,592.48	10,180.47	-10,166.10	1,690.88	0.00	409,039.40	578,378.09	32.12447176	-104.21368108
	18,200.00	89.74	179.50	7,971.64	4,592.94	10,280.47	-10,266.10	1,691.75	0.00	408,939.41	578,378.96	32.12419690	-104.21367863
	18,300.00	89.74	179.50	7,972.10	4,593.40	10,380.47	-10,366.09	1,692.62	0.00	408,839.42	578,379.83	32.12392205	-104.21367617
	18,400.00	89.74	179.50	7,972.56	4,593.86	10,480.47	-10,466.09	1,693.49	0.00	408,739.44	578,380.70	32.12364719	-104.21367372
	18,500.00	89.74	179.50	7,973.02	4,594.32	10,580.47	-10,566.08	1,694.36	0.00	408,639.45	578,381.57	32.12337233	-104.21367127
	18,600.00	89.74	179.50	7,973.48	4,594.78	10,680.47	-10,666.08	1,695.24	0.00	408,539.47	578,382.44	32.12309747	-104.21366881
	18,700.00	89.74	179.50	7,973.94	4,595.24	10,780.47	-10,766.08	1,696.11	0.00	408,439.48	578,383.31	32.12282261	-104.21366636
Section 17-20 Line, NMNM1139!	18,729.00	89.74	179.50	7,974.07	4,595.37	10,809.47	-10,795.07	1,696.36	0.00	408,410.48	578,383.56	32.12274290	-104.21366565
	18,800.00	89.74	179.50	7,974.40	4,595.70	10,880.47	-10,866.07	1,696.98	0.00	408,339.49	578,384.18	32.12254775	-104.21366390
	18,900.00	89.74	179.50	7,974.86	4,596.16	10,980.46	-10,966.07	1,697.85	0.00	408,239.51	578,385.05	32.12227289	-104.21366145
	19,000.00	89.74	179.50	7,975.32	4,596.62	11,080.46	-11,066.06	1,698.72	0.00	408,139.52	578,385.92	32.12199804	-104.21365899
	19,100.00	89.74	179.50	7,975.78	4,597.08	11,180.46	-11,166.06	1,699.59	0.00	408,039.54	578,386.79	32.12172318	-104.21365654
	19,200.00	89.74	179.50	7,976.24	4,597.54	11,280.46	-11,266.05	1,700.46	0.00	407,939.55	578,387.67	32.12144832	-104.21365409
	19,300.00	89.74	179.50	7,976.70	4,598.00	11,380.46	-11,366.05	1,701.33	0.00	407,839.56	578,388.54	32.12117346	-104.21365163
	19,400.00	89.74	179.50	7,977.16	4,598.46	11,480.46	-11,466.04	1,702.20	0.00	407,739.58	578,389.41	32.12089860	-104.21364918
	19,500.00	89.74	179.50	7,977.62	4,598.92	11,580.46	-11,566.04	1,703.07	0.00	407,639.59	578,390.28	32.12062374	-104.21364672
	19,600.00	89.74	179.50	7,978.08	4,599.38	11,680.46	-11,666.03	1,703.94	0.00	407,539.61	578,391.15	32.12034888	-104.21364427
	19,700.00	89.74	179.50	7,978.54	4,599.84	11,780.46	-11,766.03	1,704.82	0.00	407,439.62	578,392.02	32.12007402	-104.21364182
	19,800.00	89.74	179.50	7,979.00	4,600.30	11,880.45	-11,866.02	1,705.69	0.00	407,339.63	578,392.89	32.11979917	-104.21363936
	19,900.00	89.74	179.50	7,979.46	4,600.76	11,980.45	-11,966.02	1,706.56	0.00	407,239.65	578,393.76	32.11952431	-104.21363691
	20,000.00	89.74	179.50	7,979.92	4,601.22	12,080.45	-12,066.01	1,707.43	0.00	407,139.66	578,394.63	32.11924945	-104.21363445
Private Lease exit to NMNM1308	20,054.80	89.74	179.50	7,980.17	4,601.47	12,135.25	-12,120.81	1,707.91	0.00	407,084.87	578,395.11	32.11909882	-104.21363311
	20,100.00	89.74	179.50	7,980.38	4,601.68	12,180.45	-12,166.01	1,708.30	0.00	407,039.68	578,395.50	32.11897459	-104.21363200
	20,200.00	89.74	179.50	7,980.84	4,602.14	12,280.45	-12,266.00	1,709.17	0.00	406,939.69	578,396.37	32.11869973	-104.21362955
	20,300.00	89.74	179.50	7,981.30	4,602.60	12,380.45	-12,366.00	1,710.04	0.00	406,839.70	578,397.24	32.11842487	-104.21362709
	20,400.00	89.74	179.50	7,981.76	4,603.06	12,480.45	-12,465.99	1,710.91	0.00	406,739.72	578,398.11	32.11815001	-104.21362464
	20,500.00	89.74	179.50	7,982.22	4,603.52	12,580.45	-12,565.99	1,711.78	0.00	406,639.73	578,398.99	32.11787515	-104.21362218
	20,600.00	89.74	179.50	7,982.68	4,603.98	12,680.45	-12,665.98	1,712.65	0.00	406,539.75	578,399.86	32.11760029	-104.21361973

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
	20,700.00	89.74	179.50	7,983.14	4,604.44	12,780.45	-12,765.98	1,713.52	0.00	406,439.76	578,400.73	32.11732544	-104.21361728
	20,800.00	89.74	179.50	7,983.60	4,604.90	12,880.44	-12,865.97	1,714.40	0.00	406,339.77	578,401.60	32.11705058	-104.21361482
	20,900.00	89.74	179.50	7,984.06	4,605.36	12,980.44	-12,965.97	1,715.27	0.00	406,239.79	578,402.47	32.11677572	-104.21361237
	21,000.00	89.74	179.50	7,984.52	4,605.82	13,080.44	-13,065.96	1,716.14	0.00	406,139.80	578,403.34	32.11650086	-104.21360991
	21,100.00	89.74	179.50	7,984.98	4,606.28	13,180.44	-13,165.96	1,717.01	0.00	406,039.82	578,404.21	32.11622600	-104.21360746
	21,200.00	89.74	179.50	7,985.44	4,606.74	13,280.44	-13,265.95	1,717.88	0.00	405,939.83	578,405.08	32.11595114	-104.21360501
	21,300.00	89.74	179.50	7,985.90	4,607.20	13,380.44	-13,365.95	1,718.75	0.00	405,839.84	578,405.95	32.11567628	-104.21360255
	21,400.00	89.74	179.50	7,986.36	4,607.66	13,480.44	-13,465.94	1,719.62	0.00	405,739.86	578,406.82	32.11540142	-104.21360010
	21,500.00	89.74	179.50	7,986.82	4,608.12	13,580.44	-13,565.94	1,720.49	0.00	405,639.87	578,407.69	32.11512656	-104.21359764
	21,600.00	89.74	179.50	7,987.28	4,608.58	13,680.44	-13,665.93	1,721.36	0.00	405,539.89	578,408.56	32.11485170	-104.21359519
	21,700.00	89.74	179.50	7,987.74	4,609.04	13,780.43	-13,765.93	1,722.23	0.00	405,439.90	578,409.44	32.11457685	-104.21359274
	21,800.00	89.74	179.50	7,988.20	4,609.50	13,880.43	-13,865.92	1,723.10	0.00	405,339.91	578,410.31	32.11430199	-104.21359028
	21,900.00	89.74	179.50	7,988.66	4,609.96	13,980.43	-13,965.92	1,723.97	0.00	405,239.93	578,411.18	32.11402713	-104.21358783
	22,000.00	89.74	179.50	7,989.12	4,610.42	14,080.43	-14,065.91	1,724.85	0.00	405,139.94	578,412.05	32.11375227	-104.21358537
	22,100.00	89.74	179.50	7,989.58	4,610.88	14,180.43	-14,165.91	1,725.72	0.00	405,039.96	578,412.92	32.11347741	-104.21358292
	22,200.00	89.74	179.50	7,990.04	4,611.34	14,280.43	-14,265.91	1,726.59	0.00	404,939.97	578,413.79	32.11320255	-104.21358047
	22,300.00	89.74	179.50	7,990.50	4,611.80	14,380.43	-14,365.90	1,727.46	0.00	404,839.98	578,414.66	32.11292769	-104.21357801
	22,400.00	89.74	179.50	7,990.96	4,612.26	14,480.43	-14,465.90	1,728.33	0.00	404,740.00	578,415.53	32.11265283	-104.21357556
	22,500.00	89.74	179.50	7,991.42	4,612.72	14,580.43	-14,565.89	1,729.20	0.00	404,640.01	578,416.40	32.11237797	-104.21357311
	22,600.00	89.74	179.50	7,991.88	4,613.18	14,680.42	-14,665.89	1,730.07	0.00	404,540.03	578,417.27	32.11210311	-104.21357065
	22,700.00	89.74	179.50	7,992.34	4,613.64	14,780.42	-14,765.88	1,730.94	0.00	404,440.04	578,418.14	32.11182825	-104.21356820
	22,800.00	89.74	179.50	7,992.80	4,614.10	14,880.42	-14,865.88	1,731.81	0.00	404,340.05	578,419.01	32.11155340	-104.21356574
	22,900.00	89.74	179.50	7,993.26	4,614.56	14,980.42	-14,965.87	1,732.68	0.00	404,240.07	578,419.89	32.11127854	-104.21356329
	23,000.00	89.74	179.50	7,993.72	4,615.02	15,080.42	-15,065.87	1,733.55	0.00	404,140.08	578,420.76	32.11100368	-104.21356084
	23,100.00	89.74	179.50	7,994.18	4,615.48	15,180.42	-15,165.86	1,734.43	0.00	404,040.10	578,421.63	32.11072882	-104.21355838
	23,200.00	89.74	179.50	7,994.63	4,615.93	15,280.42	-15,265.86	1,735.30	0.00	403,940.11	578,422.50	32.11045396	-104.21355593
	23,300.00	89.74	179.50	7,995.09	4,616.39	15,380.42	-15,365.85	1,736.17	0.00	403,840.12	578,423.37	32.11017910	-104.21355348
	23,400.00	89.74	179.50	7,995.55	4,616.85	15,480.42	-15,465.85	1,737.04	0.00	403,740.14	578,424.24	32.10990424	-104.21355102
	23,500.00	89.74	179.50	7,996.01	4,617.31	15,580.42	-15,565.84	1,737.91	0.00	403,640.15	578,425.11	32.10962938	-104.21354857
	23,600.00	89.74	179.50	7,996.47	4,617.77	15,680.41	-15,665.84	1,738.78	0.00	403,540.17	578,425.98	32.10935452	-104.21354611
	23,700.00	89.74	179.50	7,996.93	4,618.23	15,780.41	-15,765.83	1,739.65	0.00	403,440.18	578,426.85	32.10907966	-104.21354366
	23,800.00	89.74	179.50	7,997.39	4,618.69	15,880.41	-15,865.83	1,740.52	0.00	403,340.19	578,427.72	32.10880480	-104.21354121
	23,900.00	89.74	179.50	7,997.85	4,619.15	15,980.41	-15,965.82	1,741.39	0.00	403,240.21	578,428.59	32.10852994	-104.21353875
White City 8-17-20 Federal Com	23,931.77	89.74	179.50	7,998.00	4,619.30	16,012.18	-15,997.59	1,741.67	0.00	403,208.44	578,428.87	32.10844262	-104.21353797

Survey Type: Non-Def Plan

Survey Error Model: ISCWSA0 3 - D 95 % Confidence 2.7955 sigma

Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Code	Vendor / Tool	Borehole / Survey
	1	0.000	7,500.000	1/100.000 '.5 – 12.25 – 8.75	5 – 10.75 – 7.625			A001Mb_MWD		White City 8-17-20 Federal Com 1H / Coterra White
	1	7,500.000	24,205.917	1/100.000	8.75 – 6.75	7.625 – 6.75		A008Mb_MWD+IFR1+MS		White City 8-17-20 Federal Com 1H / Coterra White

EOU Geometry:

End MD (ft)	Hole Size (in)	Casing Size (in)	Name
1,439.500	17.500	13.375	
5,439.500	12.250	10.750	
8,439.500	8.750	7.625	
24,783.735	6.750		

1. Geological Formations

TVD of target 7,998
MD at TD 23,932

Pilot Hole TD N/A
Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	728	N/A	
Top of Salt	1388	N/A	
Base of Salt	1958	N/A	
Lamar	2178	N/A	
Cherry Canyon	3109	N/A	
Brushy Canyon	4118	N/A	
Bone Spring Lime	5789	N/A	
Leonard Shale	5909	N/A	
Bell Canyon	6692	N/A	
1st Bone Spring Sand	6704	Hydrocarbons	
2nd Bone Spring Shale	6883	Hydrocarbons	
2nd Bone Spring Sand	7199	Hydrocarbons	
3rd Bone Spring Carb	7589	Hydrocarbons	

2. Casing Program

Hole Size	Casing Depth From	Casing Depth To	Setting Depth TVD	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17 1/2	0	450	450	13-3/8"	48.00	H-40/J-55 Hybrid	ST&C	3.59	8.40	14.91
12 1/4	0	2175	2158	9-5/8"	36.00	J-55	ST&C	1.76	3.08	5.07
8 3/4	0	8184	7836	7-5/8"	29.70	L-80	TMK UP Ultra FJ	1.31	1.88	1.83
6 3/4	0	7434	7434	5-1/2"	20.00	HCL-80	LT&C	2.34	2.26	2.89
6 3/4	7434	23931	7998	5"	18.00	P-110	BT&C	3.08	3.12	57.13
					BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet

TVD was used on all calculations.
All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Request Variance for 5-1/2" x 7-5/8" annular clearance. The portion that does not meet clearance will not be cemented

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	N
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	N
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	N
Is 2nd string set 100' to 600' below the base of salt?	N
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	N
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	N
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	N
Is AC Report included?	Y

3. Cementing Program

Casing	# Sks	Wt. lb/gal	Yld ft3/sack	H2O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	292	14.80	1.34	9.15	9.5	Tail: Class C + LCM
Intermediate	413	12.90	1.88	9.65	12	Lead: 35:65 (Poz:C) + Salt + Bentonite
	126	14.80	1.36	6.57	9.5	Tail: Class C + Retarder
Intermediate 2 - Stage #2	82	10.30	3.64	22.18		Lead: Tuned Light + LCM
						DV/ECP Tool 2325'
Intermediate 2 - Stage #1	202	10.30	3.64	22.18		Lead: Tuned Light + LCM
	97	14.20	1.30	5.86	14:30	Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS
Production	1590	14.20	1.30	5.86	14:30	Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS

DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0	25
Intermediate	0	44
Intermediate 2 - Stage #1	2325	45
Production	7984	36

Cimarex request the ability to perform casing integrity tests after plug bump of cement job.

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size	Min Required WP	Type		Tested To
12 1/4	13 5/8	2M	Annular	X	50% of working pressure
			Blind Ram		2M
			Pipe Ram		
			Double Ram	X	
			Other		
8 3/4	13 5/8	3M	Annular	X	50% of working pressure
			Blind Ram		3M
			Pipe Ram		
			Double Ram	X	
			Other		
6 3/4	13 5/8	5M	Annular	X	50% of working pressure
			Blind Ram		5M
			Pipe Ram	X	
			Double Ram	X	
			Other		

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. 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. See attached schematics.

X	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or 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. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.	
X	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.	
	N	Are anchors required by manufacturer?

The multi-bowl wellhead will be installed by vendors representative. A copy of the installation instructions has been sent to the BLM field office. The wellhead will be installed by a third-party welder, monitored by the wellhead vendor representative. All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.

5. Mud Program

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0' to 450'	FW Spud Mud	8.30 - 8.80	30-32	N/C
450' to 2175'	Brine Water	9.70 - 10.20	30-32	N/C
2175' to 8184'	FW/Cut Brine	8.50 - 9.00	30-32	N/C
8184' to 23931'	OBM	10.00 - 10.50	50-70	N/C

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

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring

6. Logging and Testing Procedures

Logging, Coring and Testing	
X	Will run GR/CNL fromTD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No logs are planned based on well control or offset log information.
	Drill stem test?
	Coring?

Additional Logs Planned	Interval

7. Drilling Conditions

Condition	
BH Pressure at deepest TVD	4366 psi
Abnormal Temperature	No

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
X	H2S is present
X	H2S plan is attached

8. Other Facets of Operation

9. Wellhead

A multi-bowl wellhead system will be utilized.

After running the 13-3/8" surface casing, a 13 5/8" BOP/BOPE system with a minimum working pressure of 5000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 5000 psi test. Annular will be tested to 50% of working pressure. The pressure test will be repeated at least every 30 days, as per Onshore Order No. 2.

The multi-bowl wellhead will be installed by vendor's representative. A copy of the installation instructions has been sent to the BLM field office.

The wellhead will be installed by a third-party welder while being monitored by the wellhead vendor representative.

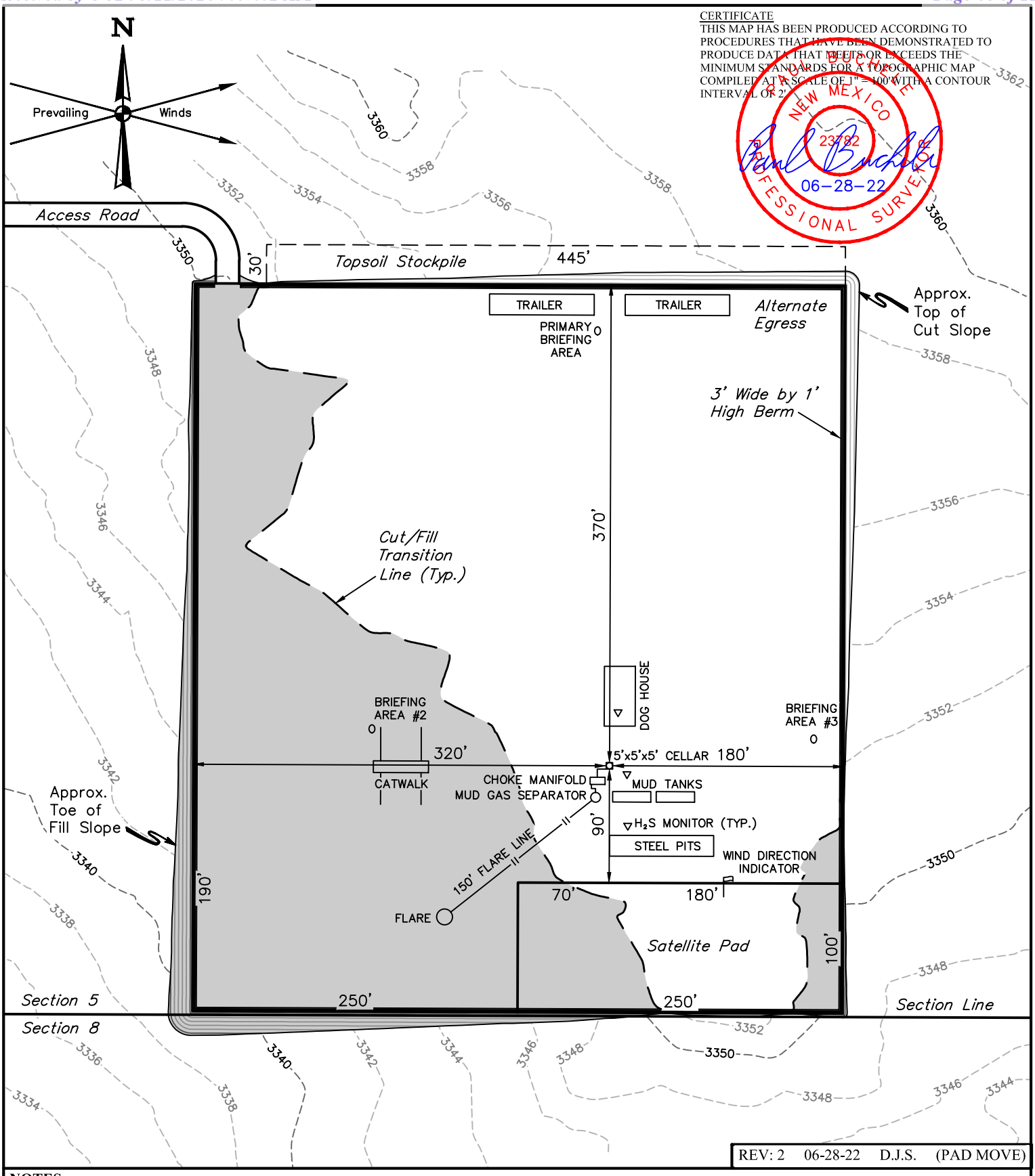
All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.

A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi.

All casing strings will be tested as per Onshore Order No.2 to atleast 0.22 psi/ft or 1,500 whichever is greater and not to exceed 70% of casing burst.

If well conditions dictate conventional slips will be set and BOPE will be tested to appropriate pressures based on permitted pressure requirements.

A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi. Slips will be utilized after running and cementing the production casing. After installation of the slips and wellhead on the production casing, a 5M BOP/BOPE system with a minimum working pressure of 5000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 5000 psi test. Annular will be tested to 50% of working pressure. The pressure test will be repeated at least every 30 days, as per Onshore Order No. 2. The surface casing string will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater. The casing string utilizing steel body pack-off will be tested to 70% of casing burst. If well conditions dictate conventional slips will be set and BOPE will be tested to appropriate pressures based on permitted pressure requirements.



CERTIFICATE
THIS MAP HAS BEEN PRODUCED ACCORDING TO PROCEDURES THAT HAVE BEEN DEMONSTRATED TO PRODUCE DATA THAT MEETS OR EXCEEDS THE MINIMUM STANDARDS FOR A TOPOGRAPHIC MAP COMPILED AT A SCALE OF 1" = 100' WITH A CONTOUR INTERVAL OF 2'.

BASIN SURVEYS NEW MEXICO 23782 PROFESSIONAL SURVEYOR
Paul Buckelew
06-28-22

REV: 2 06-28-22 D.J.S. (PAD MOVE)

NOTES:
- Contours shown at 2' intervals.

CIMAREX ENERGY CO.

WHITE CITY 8-17-20 FEDERAL COM 1H
193' FSL 577' FWL
SW 1/4 SW 1/4, SECTION 5, T25S, R27E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

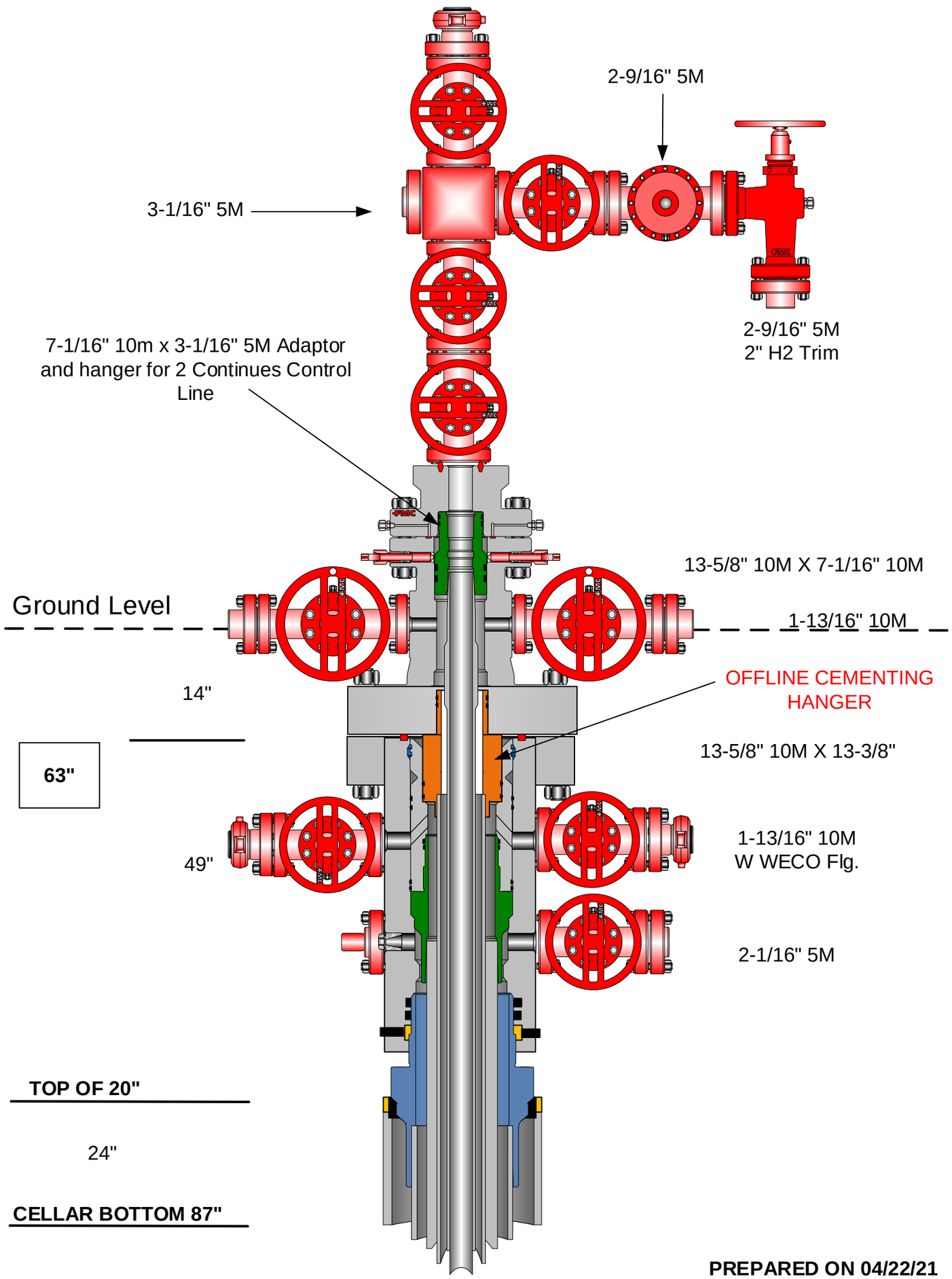
SURVEYED BY	R.C., M.D.	06-17-22	SCALE
DRAWN BY	D.J.S.	06-30-21	1" = 100'

TYPICAL RIG LAYOUT **EXHIBIT K**

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

CACTUS FOR SERVICE
WEARBUSHING
IN CASING HEAD &
CASING SPOOL

LEA CO., NM



PREPARED ON 04/22/21

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: Cimarex Energy Company **OGRID:** 215099 **Date:** 12/6/23

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
White City 8-17-20 Federal Com 1H		M, Sec 5, T25S, R27E	193 FSL & 577 FWL	2055	4925	2440

IV. Central Delivery Point Name: White City 8-17-20 CTB [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
White City 8-17-20 Federal Com 1H		5/5/24	5/29/24	9/20/24	10/14/24	10/14/24

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. ***If Operator checks this box, Operator will select one of the following:***

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- **(a)** power generation on lease;
- **(b)** power generation for grid;
- **(c)** compression on lease;
- **(d)** liquids removal on lease;
- **(e)** reinjection for underground storage;
- **(f)** reinjection for temporary storage;
- **(g)** reinjection for enhanced oil recovery;
- **(h)** fuel cell production; and
- **(i)** other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	Sarah Jordan
Printed Name:	Sarah Jordan
Title:	Regulatory Analyst
E-mail Address:	sarah.jordan@coterra.com
Date:	12/6/23
Phone:	432/620-1909

OIL CONSERVATION DIVISION

(Only applicable when submitted as a standalone form)

Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

From State of New Mexico, Natural Gas Management Plan

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.

XEC Standard Response

Standard facility gas process flow begins at the inlet separator. These vessels are designed based off of forecasted rates and residence times in accordance with, and often greater than, API 12J. The separated gas is then routed to an additional separation vessel (ie sales scrubber) in order to extract liquids that may have carried over or developed due to the decrease in pressure. The sales scrubber is sized based on API 521. From the sales scrubber, the gas leaves the facility and enters the gas midstream gathering network.

Cimarex
VII. Operational Practices

Cimarex values the sustainable development of New Mexico's natural resources. Venting and flaring of natural gas is a source of waste in the industry, and Cimarex will ensure that its values are aligned with those of NMOCD. As such, Cimarex plans to take pointed steps to ensure compliance with Subsection A through F of 19.15.27.8 NMAC.

Specifically, below are the steps Cimarex will plan to follow under routine well commissioning and operations.

1. Capture or combust natural gas during drilling operations where technically feasible, using the best industry practices and control technologies.
    a. All flares during these operations will be a minimum of 100ft away from the nearest surface-hole location.
2. All gas present during post-completion drill-out and flow back will be routed through separation equipment, and, if technically feasible, flare unsellable vapors rather than vent. Lastly, formal sales separator commissioning to process well-stream fluids and send gas to a gas flow line/collection system or use the gas for on-site fuel or beneficial usage, gas as soon as is safe and technically feasible.
3. Cimarex will ensure the flare or combustion equipment is properly sized to handle expected flow rates, ensure this equipment is equipped with an automatic or continuous ignition source, and ensure this equipment is designed for proper combustion efficiency.
4. If Cimarex must flare because gas is not meeting pipeline specifications, Cimarex will limit flaring to <60 days, analyze gas composition at least twice per week, and route gas into a gathering pipeline as soon as pipeline specifications are met.
5. Under routine production operations, Cimarex will not flare/vent unless:
    a. Venting or flaring occurs due to an emergency or equipment malfunction.
    b. Venting or flaring occurs as a result of unloading practices, and an operator is onsite (or within 30 minutes of drive time and posts contact information at the wellsite) until the end of unloading practice.
    c. The venting or flaring occurs during automated plungerlift operations, in which case the Cimarex operator will work to optimize the plungerlift system to minimize venting/flaring.
    d. The venting or flaring occurs during downhole well maintenance, in which case Cimarex will work to minimize venting or flaring operations to the extent that it does not pose a risk to safe operations.
    e. The well is an exploratory well, the division has approved the well as an exploratory well, venting or flaring is limited to 12 months, as approved by the division, and venting/flaring does not cause Cimarex to breach its State-wide 98% gas capture requirement.
    f. Venting or flaring occurs because the stock tanks or other low-pressure vessels are being gauged, sampled, or liquids are being loaded out.
    g. The venting or flaring occurs because pressurized vessels are being maintained and are being blown-down or depressurized.
    h. Venting or flaring occurs as a result of normal dehydration unit operations.

i. Venting or flaring occurs as a result of bradenhead testing.
j. Venting or flaring occurs as a result of normal compressor operations, including general compressor operations, compressor engines and turbines.
k. Venting or flaring occurs as a result of a packer leakage test.
l. Venting or flaring occurs as a result of a production test lasting less than 24 hours unless otherwise approved by the division.
m. Venting or flaring occurs as a result of new equipment commissioning and is necessary to purge impurities from the pipeline or production equipment.

6. Cimarex will maintain its equipment in accordance with its Operations and Maintenance Program, to ensure venting or flaring events are minimized and that equipment is properly functioning.
7. Cimarex will install automatic tank gauging equipment on all production facilities constructed after May 25, 2021, to ensure minimal emissions from tank gauging practices.
8. By November 25, 2022, all Cimarex facilities equipped with flares or combustors will be equipped with continuous pilots or automatic igniters, and technology to ensure proper function, i.e. thermocouple, fire-eye, etc…
9. Cimarex will perform AVO (audio, visual, olfactory) facility inspections in accordance with NMOCD requirements. Specifically, Cimarex will:
    a. Perform weekly inspections during the first year of production, and so long as production is greater than 60 MCFD.
    b. If production is less than 60 MCFD, Cimarex will perform weekly AVO inspections when an operator is present on location, and inspections at least once per calendar month with at least 20 calendar days between inspections.
10. Cimarex will measure or estimate the volume of vented, flared or beneficially used natural gas, regardless of the reason or authorization for such venting or flaring.
11. On all facilities constructed after May 25, 2021, Cimarex will install metering where feasible and in accordance with available technology and best engineering practices, in an effort to measure how much gas could have been vented or flared.
    a. In areas where metering is not technically feasible, such as low-pressure/low volume venting or flaring applications, engineering estimates will be used such that the methodology could be independently verified.
12. Cimarex will fulfill the division's requirements for reporting and filing of venting or flaring that exceeds 50 MCF in volume or last eight hours or more cumulatively within any 24-hour period.

VIII. Best Management Practices to minimize venting during active and planned maintenance

Cimarex strives to ensure minimal venting occurs during active and planned maintenance activities. Below is a description of common maintenance practices, and the steps Cimarex takes to limit venting exposure.

- **Workovers:**
  - Always strive to kill well when performing downhole maintenance.
  - If vapors or trapped pressure is present and must be relieved then:
    - Initial blowdown to production facility:
      - Route vapors to LP flare if possible/applicable
    - Blowdown to portable gas buster tank:
      - Vent to existing or portable flare if applicable.

- **Stock tank servicing:**
  - Minimize time spent with thief hatches open.
  - When cleaning or servicing via manway, suck tank bottoms to ensure minimal volatiles exposed to atmosphere.
    - Connect vacuum truck to low pressure flare while cleaning bottoms to limit venting.
  - Isolate the vent lines and overflows on the tank being serviced from other tanks.

- **Pressure vessel/compressor servicing and associated blowdowns:**
  - Route to flare where possible.
  - Blow vessel down to minimum available pressure via pipeline, prior to venting vessel.
  - Preemptively changing anodes to reduce failures and extended corrosion related servicing.
  - When cleaning or servicing via manway, suck vessel bottoms to ensure minimal volatiles exposed to atmosphere.

- **Flare/combustor maintenance:**
  - Minimize downtime by coordinating with vendor and Cimarex staff travel logistics.
  - Utilizing preventative and predictive maintenance programs to replace high wear components before failure.
  - Because the flare/combustor is the primary equipment used to limit venting practices, ensure flare/combustor is properly maintained and fully operational at all times via routine maintenance, temperature telemetry, onsite visual inspections.

The Cimarex expectation is to limit all venting exposure. Equipment that may not be listed on this document is still expected to be maintained and associated venting during such maintenance minimized.

New Mexico Variances

Variance Request #2: Utilize Co-Flex Choke Line

Coterra requests approval to utilize a co-flex choke line between the BOP and choke manifold. Certification for the proposed co-flex choke line is attached. The choke line is not required by the manufacturer to be anchored. In the event the specific co-flex choke line is not available, one of equal or higher rating will be used. Variance to include Hammer Union connections on lines downstream of the buffer tank only.

Gates Engineering & Services UK Ltd		CERTIFICATE OF CONFORMITY	
Doc. Ref.	Form-056		
Revision	4		

Gates SO No. 31675	**Customer Name & Address:** **Gates Engineering & Services North America** **7603, Prairie Oak Drive** **Suite 190** **Houston, TX 77086** **United States**
Clients PO No: 1714987/ 0	
Description: 3" Choke & Kill Hose x 35ft	

This is to certify that the components listed below have been supplied in accordance API 16C & with the referenced order number above. The assemblies listed below have been manufactured and tested in the UK

SPECIFICATION

ITEM	DESCRIPTION	Drawing Num	QTY
2	3" Choke & Kill Hose x 35ft complete with 4.1/16" API 6A 10K Fixed Flange with BX155 Inlaid Ring Groove on one end & 4.1/16" API 6A 10K Swivel Flange with BX155 Inlaid Ring Groove On the other end	31675-DW-001, Rev 0	1
	Hose Batch: 120839		
	Hose Assembly: 120840		
	Customer Tag: N/A		
	Working Pressure: 10000 PSI		
	Test Pressure: 15000 PSI		
	Standard: API 16C		
	PSL: FSL 3		
	Material Grade: F		
	Temperature Rating: -25 to +100 Deg C		

Accepted by..S A Tait..... 17/02/20 ..... **for and on behalf of Gates Engineering & Services UK Ltd**

Gates Engineering & Services UK Limited QA Approved

Gates Engineering & Services UK Ltd		PRESSURE TEST CERTIFICATE	
Doc. Ref.	Form-051		
Revision	9		

	Certificate No:
☐ BURST ☑ HYDROSTATIC ☐ CYCLIC	31675-002

Product:	3” Choke & Kill Hose	**Hose WO/Batch:**	120839
Assembly WO:	120840	**Length:**	35Ft
SO No:	31675	**Date:**	11/02/20
Client:	Gates Engineering & Services North America	**Client Reference:**	1714987/ 0

Inner Diameter:	3	**Inch**		
Working Pressure:	10000	**Psi**	690	**bar**
Test Pressure:	15000	**Psi**	1034	**bar**
Burst Pressure:	22500	**Psi**	1551	**bar**

Hose Description:	3” Choke & Kill Hose x 35ft complete with 4.1/16" API 6A 10K Fixed Flange with BX155 Inlaid Ring Groove on one end & 4.1/16" API 6A 10K Swivel Flange with BX155 Inlaid Ring Groove On the other end	
Item No	**Qty**	**Part Code**	**Customer Tag No (if applicable)**
2	1	HA31623-001	N/A

Details of Test:	Pressure tested with water at ambient temperature for 60 minutes at test pressure 1034 BAR, Chart recording done with Yokagawa Data Logger S/N: S5NC08915 Transducer ESI GS4200EX3000DE ID:TD/DC-002, S/N: 2018-741502 Calibration Certificate No: IKMCERTL9111
Results:	Pressure Loss: 11.4 Bar Acceptance Criteria: Pressure loss not to exceed - 34.47 Bar or 500 PSI

GESUK Ltd	Third Party
17/02/20	

CR 374

File Message : 120840 FAT
Device Type : DX2000
Serial No. : S5NC08915

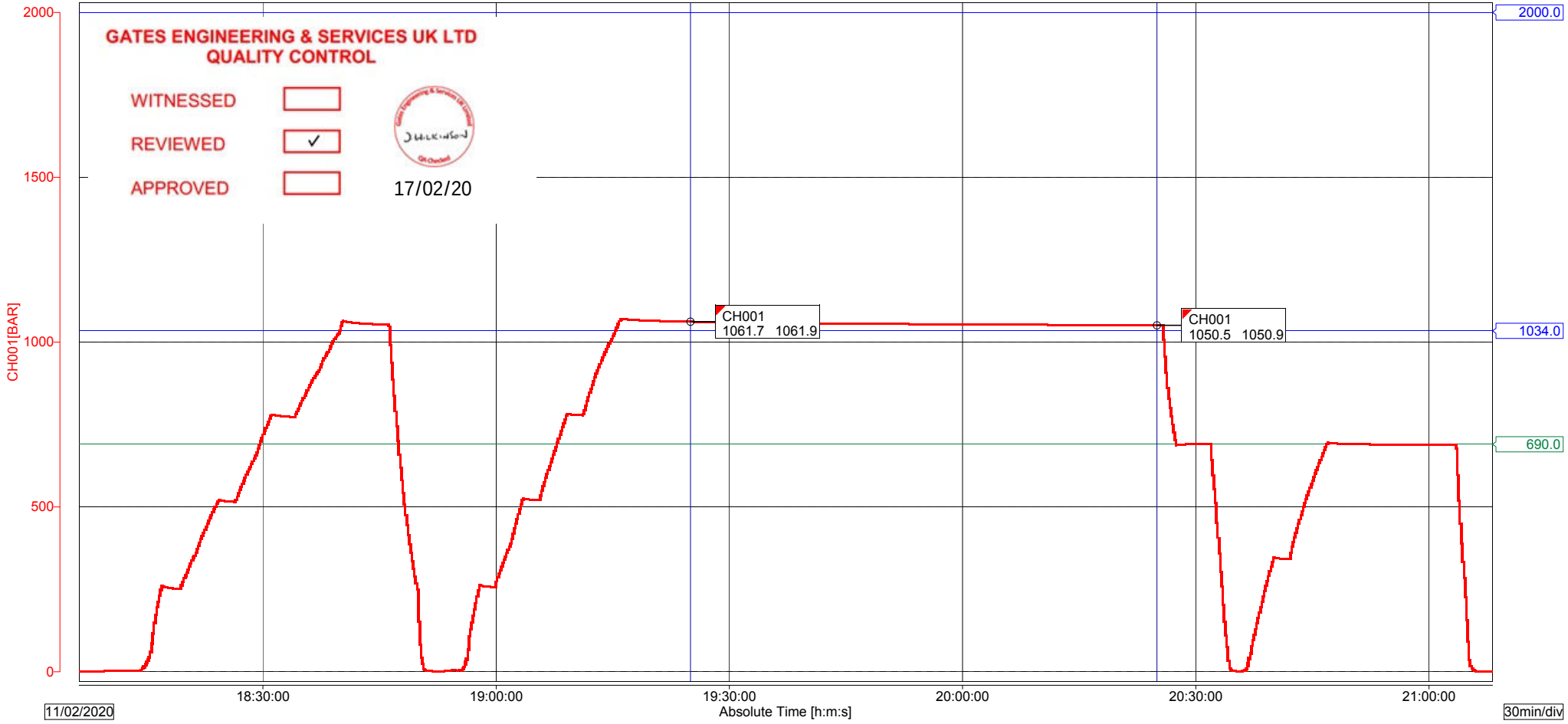
Start Time : 11/02/2020 18:06:20.000
Stop Time : 11/02/2020 21:08:10.000

Print Groups : GROUP 1
Print Range : 11/02/2020 18:06:20.000 - 11/02/2020 21:08:10.000
Comment : Factory Acceptance Test

		Cursor A	Cursor B	Difference
Data No.		472	832	360
Absolute Time		11/02/2020 19:25:00.000	11/02/2020 20:25:00.000	01:00:00.000
Channel		Value A	Value B	Value B-A
CH001 [BAR]	Max	1061.9	1050.9	-11.0
	Min	1061.7	1050.5	-11.2

Section 472 - 832 11/02/2020 19:25:00.000 - 11/02/2020 20:25:00.000

Channel	MIN	MAX	P-P	Mean	RMS
CH001[BAR]	1050.5	1061.9	11.4	1055.0	1055.1



TUSK LIFTING

REPORT OF THOROUGH EXAMINATION OF LIFTING EQUIPMENT

IN ACCORDANCE WITH LIFTING OPERATIONS AND LIFTING EQUIPMENT REGULATIONS 1998

ALL ITEMS ON THIS REPORT ARE SAFE TO USE

NAME & ADDRESS OF COMPANY FOR WHOM THE EXAMINATION WAS MADE	ADDRESS OF THE PREMISES WHERE THE EXAMINATION WAS MADE		
Gates Engineering & Services UK Ltd Bassington Drive Bassington Industrial Estate Cramlington NE23 8AS	Tusk Lifting Ltd 49D Sadler Forster Way Teesside Industrial Estate Stockton-On-Tees TS17 9JY	DATE OF REPORT	08/01/2020
		REPORT NO	13322
		CUSTOMER REFERENCE	052628
		CONTRACT NO.	0000059501

QTY	ID NO.	DESCRIPTION OF EQUIPMENT INCLUDING MANUFACTURER AND DATE OF MANUFACTURE	SWL / WLL	EWL	EXAM REASON (SEE BELOW)	TEST APPLIED	LATEST DATE OF NEXT THOROUGH EXAMINATION
50.00	643615/1 - 643615/50	10mm x 6ft HCP Coated Chain Sling c/w 4.75t Safety Pin Bow Shackle each end	4 TONNE	6 FT	B	VISUAL	08/07/2020

REASON FOR EXAMINATION: **A** - NEW INSTALLATION OR NEW LOCATION; **B** - WITHIN 6 MONTHS; **C** - WITHIN 12 MONTHS; **D** - WRITTEN SCHEME; **E** - EXCEPTIONAL CIRCUMSTANCES.

NAME AND QUALIFICATION OF PERSON MAKING THE REPORT

Jimmy Joyce, Company Approved Examiner

SIGNATURE

NAME OF THE PERSON AUTHENTICATING THE REPORT

Julie Montgomery, Planner

SIGNATURE

DATE OF THOROUGH EXAMINATION **08/01/2020**

OPERATING INSTRUCTIONS CAN BE FOUND ON OUR WEBSITE, HTTP://WWW.TUSKLIFTING.CO.UK
THE ORIGINAL MANUFACTURERS EC DECLARATION OF CONFORMITY IS HELD ON FILE AT OUR PREMISES AND IS AVAILABLE UPON REQUEST

Tusk Lifting Ltd.
49D Sadler Forster Way. Teesside Industrial Estate.
Stockton On Tees. TS17 9JY

T. 01642 915330
E. teesside@tusklifting.co.uk
W. tusklifting.co.uk

VAT. GB258876247
REG. 10497383

MAMMOET

LEEA Full Member

IMB52628

William Hackett
Lifting Products Limited

QUALITY SYSTEM CERTIFICATION DNV·GL ISO 9001
ENVIRONMENTAL SYSTEM CERTIFICATION DNV·GL ISO 14001
SAFETY SYSTEM CERTIFICATION DNV·GL ISO 45001
LEEA Full Member

DUAL PURPOSE DOCUMENT

EC DECLARATION OF CONFORMITY — A

DECLARATION

I DECLARE THAT THE ITEMS DESCRIBED ON THIS DOCUMENT COMPLY WITH THE REQUIREMENTS OF THE MACHINERY DIRECTIVE 2006/42/EC

MANUFACTURER'S CERTIFICATE — B

CERTIFIED ON BEHALF OF THE COMPANY

T.J. BURGESS 17/12/2019

Delivery Address

TUSK LIFTING LTD (STOCK)
49D SADLER FORSTER WAY
TEESIDE INDUSTRIAL ESTATE
STOCKTON ON TEES
TS17 9JY

Supplied To:	TUS002
Certificate Number:	**L072222**
Customer Order No:	7557
Date Received:	17/12/2019

PRODUCTS REQUIRING A DECLARATION OF CONFORMITY ARE INDICATED BY (A)
THOSE REQUIRING JUST A MANUFACTURER'S CERTIFICATE BY (B)

Authorised person for the configuration of the declaration documents: Tim Burgess, William Hackett Lifting Products, Alnwick, UK

A/B	Batch	Lot No / Serial No	Product	Description	Qty	Working Load Limit	Proof Load	Min Breaking Load
A	P02637	643615/1-50	HNZZZ.100.TUSK	10mm grade 10 chain sling assembly. Comprising of: 1 x 4.75t Safety Bow Shackle, 1 x 10mm connector, 10mm grade 10 chain, 1 x 10mm connector and 1 x 4.75t Safety Bow Shackle.	50	4t		

OAK DRIVE, LIONHEART ENTERPRISE PARK, ALNWICK, NORTHUMBERLAND NE66 2EU
Tel. + 44 (0) 1665 604200 Fax. + 44 (0) 1665 604204 Email: info@williamhackett.co.uk
Website: www.williamhackett.co.uk Co. Registration No. 09679580 VAT Reg. No. 217 3508 23

Report Version 2-5

IMB52628

William Hackett
Lifting Products Limited

3.1 Material Certificate

DATE: 18.12.2019	**PURCHASE ORDER NO. 7557**

CUSTOMER	TUSK LIFTING LIMITED
ADDRESS	49D SADLER FORSTER WAY TEESIDE IND EST STOCKTON ON TEES TS17 9JY

PRODUCT CODE: ASV.100.5	Marking: 1235
DESCRIPTION: 10MM GRADE 10 LIFTING CHAIN – Q61076	

Chemical Composition –

	%
C	0,215
Si	0,216
Mn	1,222
P	0,0076
S	0,0071
Ni	0,947
Cr	0,554
Cu	-
Mo	0,595
AL	0,0337

Trading & Registered Office: Oak Drive, Lionheart Enterprise Park, Alnwick, Northumberland NE66 2EU
Tel: +44 (0) 1665 604200 Fax: +44 (0) 1665 604204 Email: info@williamhackett.co.uk
Website: www.williamhackett.co.uk CRN: 09679580 VAT Registration No. 217 3508 23

YOKE®

Safety is our first priority™

Q6|259

YOKE INDUSTRIAL CORP.
#39,33rd Road, Taichung Industrial Park,
TAICHUNG 407, TAIWAN
TEL:+886-4-2350 8088
FAX:+886-4-2350 1001

Test Certificate

80059145-000730

TO : WILLIAM HACKETT LIFTING PRODUCTS LTD
Oak Drive,
Lionheart Enterprise Park,
Alnwick, Northumberland, NE66 2EU,
United Kingdom
Tel: 44-1665604200

Invoice NO: 90059797

Description: ITEM: X-015-10
G100,Connecting Link,10mm,3/8"
Batch No : YUA
Quantity : 1,800 PC

C	Si	Mn	P	S	Cr	Mo	Ni	Fe
0.18~0.30	0.15~0.40	0.70~1.30	<0.035	<0.04	0.40~1.10	0.15~0.40	0.40~1.00	other

Material :	Alloy Steel	Proof Load Test 100% :	98.1kN
Mini. Breaking Load :	157kN	Fatigue Rate 20000 cycle :	58.8kN
Magnetic Flux Crack Tested :	100% of above quantity	Working Load Limit :	4.0tonnes

TESTING ACCORDING TO ASTM A952/A 952M、DIN PAS 1061、EN1677-1
ISO 9001:2015 Certification by DNV and API
Inspection Test Certificate meet the EN 10204 3.1

TEST RESULT
Pass

YOKE INDUSTRIAL CORP.

Jason Yu

Dated: May 14, 2019

Qualification: QA Manager

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061396

YOKE INDUSTRIAL CORP.
#39,33rd Road, Taichung Industrial Park,
TAICHUNG 407, TAIWAN
TEL:+886-4-2350 8088
FAX:+886-4-2350 1001

IMB52628

Test Certificate

80062821-000450

TO: WILLIAM HACKETT LIFTING PRODUCTS LTD
Oak Drive,
Lionheart Enterprise Park,
Alnwick, Northumberland, NE66 2EU,
United Kingdom
Tel: 44-1665604200

Invoice NO: 90064302

Description: ITEM: DA-808-19
DA Bolt Pin Anchor Shackle, 3/4"
(Your PO no. 601644)
Batch No : AAA/AA
Quantity : 1,142 PC

C	Si	Mn	P	S	Cr	Mo	Ni	Fe
0.38~0.43	0.15~0.35	0.60~1.00	<0.035	<0.040	0.90~1.00	0.15~0.30	<0.1%	other

Material :	Alloy Steel	Proof Load Test 100% :	93kN
Mini, Breaking Load :	373kN	Fatigue Rate 20000 cycle :	70kN
Magnetic Flux Crack Tested :	100% of above quantity	Impact Test (-40℃) :	42J
Working Load Limit :	4.75tonnes		

TESTING ACCORDING TO EN 13889、RR-C-271F、DNVGL-ST-E273、EN 12079-2、IMO/MSC Circular 860
ISO 9001:2015 Certification by DNVGL and API
Inspection Test Certificate meet the EN 10204 3.1
These shackle have been designed, approved and tested in accordance with
DNVGL-ST-E271 Offshore Containers.
This certificate is based on DNVGL type approval NO. S-8059

TEST RESULT	YOKE INDUSTRIAL CORP.
Pass	Jason Yu Dated: September 30, 2019

Qualification: QA Manager

IML52690

TUSK LIFTING

REPORT OF THOROUGH EXAMINATION OF LIFTING EQUIPMENT

IN ACCORDANCE WITH LIFTING OPERATIONS AND LIFTING EQUIPMENT REGULATIONS 1998

ALL ITEMS ON THIS REPORT ARE SAFE TO USE

NAME & ADDRESS OF COMPANY FOR WHOM THE EXAMINATION WAS MADE	ADDRESS OF THE PREMISES WHERE THE EXAMINATION WAS MADE		
Gates Engineering & Services UK Ltd Bassington Drive Bassington Industrial Estate Cramlington NE23 8AS	Tusk Lifting Ltd 49D Sadler Forster Way Teesside Industrial Estate Stockton-On-Tees TS17 9JY	DATE OF REPORT REPORT NO CUSTOMER REFERENCE CONTRACT NO.	21/01/2020 13586 052690 0000059627

QTY	ID NO.	DESCRIPTION OF EQUIPMENT INCLUDING MANUFACTURER AND DATE OF MANUFACTURE	SWL / WLL	EWL	EXAM REASON (SEE BELOW)	TEST APPLIED	LATEST DATE OF NEXT THOROUGH EXAMINATION
30.00	IMK52690/01 - IMK52690/30	3.6T Safety Clamp CS Galv - 195MM Material CERT : GI9268	3.6 TONNE	-	B	PROOF LOAD	21/07/2020
20.00	IML52690/01 - IML52690/20	3.6T Safety Clamp CS Galv - 195MM Material CERT : GI9268	3.6 TONNE	-	B	PROOF LOAD	21/07/2020

REASON FOR EXAMINATION: **A** - NEW INSTALLATION OR NEW LOCATION; **B** - WITHIN 6 MONTHS; **C** - WITHIN 12 MONTHS; **D** - WRITTEN SCHEME; **E** - EXCEPTIONAL CIRCUMSTANCES.

NAME AND QUALIFICATION OF PERSON MAKING THE REPORT

Jimmy Joyce, Company Approved Examiner

SIGNATURE

NAME OF THE PERSON AUTHENTICATING THE REPORT

Julie Montgomery, Planner

SIGNATURE

DATE OF THOROUGH EXAMINATION **21/01/2020**

ERATING INSTRUCTIONS CAN BE FOUND ON OUR WEBSITE, HTTP://WWW.TUSKLIFTING.CO.UK
E ORIGINAL MANUFACTURERS EC DECLARATION OF CONFORMITY IS HELD ON FILE AT OUR PREMISES AND IS AVAILABLE UPON REQUEST

Tusk Lifting Ltd.
49D Sadler Forster Way. Teesside Industrial Estate.
Stockton On Tees. TS17 9JY

T. 01642 915330
E. teesside@tusklifting.co.uk
W. tusklifting.co.uk

VAT. GB258876247
REG. 10497383

MAMMOET

LEEA Full Member

IML52690

CELSA STEEL UK
OFFICES: Build. 58, Castle Works, East Moors Road
CF24 5NN Cardiff (United Kingdom)

CELSA GROUP

CELSA MANUFACTURING UK

CE UK MADE

LRV ID N: 0038
06
Cert No: 0038/CPR/LRQ4002811/1
DOP: CELSAUK001 EN10025
Hot rolled structural steel products

INSPECTION CERTIFICATE
BS-EN 10204-2004, TYPE 3.1

Standard
BS-EN 10025-2004

Customer:
CARTER STEEL LTD
YARM ROAD, STOCKTON
TS18 3SA STOCKTON
United Kingdom

Destination:
CARTER STEEL LTD
YARM ROAD, STOCKTON
TS18 3SA STOCKTON
United Kingdom

Delivery number: 2550169238
Order number : 15705941
Your order : 11049

MATERIAL Hot rolled structural steel products	CAST	C %	MN %	SI %	S %	P %	Cr %	N %	Ni %	Cu %	Mo %	V %	CE %	Reh MPA	Rm MPA	A 5.65 %	T °C	Impact 1 J	Impact 2 J	Impact 3 J	Impact Avg. J
S275 JR+AR FL130X10 L.6m	CM124288	0.10	0.53	0.14	0.026	0.020	0.117	0.010	0.14	0.55	0.021	0.001	0.260	328	464	34.8					
S275 JR+AR FL130X10 L.6m	CM124288	0.10	0.53	0.14	0.026	0.020	0.117	0.010	0.14	0.55	0.021	0.001	0.260	325	467	35.3					
S275 JR+AR FL130X10 L.6m	CM124288	0.10	0.53	0.14	0.026	0.020	0.117	0.010	0.14	0.55	0.021	0.001	0.260	329	465	35.2					
S275 JR+AR FL130X10 L.6m	CM124288	0.10	0.53	0.14	0.026	0.020	0.117	0.010	0.14	0.55	0.021	0.001	0.260	323	465	35.2					
S275 JR+AR FL130X12 L.6m	CM124207	0.10	0.56	0.16	0.035	0.022	0.124	0.009	0.14	0.47	0.021	0.001	0.259	317	452	33.8					
S275 JR+AR FL130X12 L.6m	CM124207	0.10	0.56	0.16	0.035	0.022	0.124	0.009	0.14	0.47	0.021	0.001	0.259	323	451	33.8		Red.		X	
S275 JR+AR FL150X12 L.6m	CM127200	0.10	0.54	0.15	0.023	0.018	0.086	0.010	0.11	0.44	0.014	0.002	0.250	313	448	32.5					
S275 JR+AR FL150X12 L.6m	CM127200	0.10	0.54	0.15	0.023	0.018	0.086	0.010	0.11	0.44	0.014	0.002	0.250	308	450	32.0					
S275 JR+AR FL150X6 L.6m	CM127310	0.11	0.57	0.15	0.023	0.019	0.105	0.008	0.10	0.40	0.015	0.001	0.260	298	462	37.6					
S275 JR+AR FL150X6 L.6m	CM127310	0.11	0.57	0.15	0.023	0.019	0.105	0.008	0.10	0.40	0.015	0.001	0.260	319	459	32.5					
S275 JR+AR FL150X6 L.6m	CM127310	0.11	0.57	0.15	0.023	0.019	0.105	0.008	0.10	0.40	0.015	0.001	0.260	318	457	37.5					
S275 JR+AR FL50X15 L.6m	CM124647	0.08	0.53	0.14	0.023	0.020	0.097	0.012	0.20	0.52	0.021	0.001	0.244	320	448	33.2					
S275 JR+AR FL50X15 L.6m	CM124647	0.08	0.53	0.14	0.023	0.020	0.097	0.012	0.20	0.52	0.021	0.001	0.244	329	447	33.8					
S275 JR+AR FL50X15 L.6m	CM124647	0.08	0.53	0.14	0.023	0.020	0.097	0.012	0.20	0.52	0.021	0.001	0.244	326	448	33.9					
S275 JR+AR FL50X15 L.6m	CM124647	0.08	0.53	0.14	0.023	0.020	0.097	0.012	0.20	0.52	0.021	0.001	0.244	322	447	33.5					

The materials has been evaluated and radiation is within national limits
Product suitable for galvanizing: 0.14<=Si<=0.25 & P<=0.035.

Steel making process :
Electric arc

Certified that the material detailed hereon meets the requirements of the specified standard.

Cardiff, 20.08.2019

Stuart Thomas
Quality Manager

THIS IS A VERIFIED TRUE COPY OF AN ORIGINAL CERTIFICATE
CARTER STEEL LTD

CARTER STEEL LTD
DATE 21.8.2019
ORDER No 11049
CHECKED BY:
PAGE: 1 2

Standard New Mexico Variances

Variance Request #1: Skid Rig after Cementing Surface Casing

Coterra requests permission to skid the rig to the next well on the pad in order to begin operations immediately after the cement job for the surface casing has been completed. After the cement job is completed, no operations on the subject well will be conducted until at least 8 hours have elapsed, and both lead and tail slurries have achieved 500 psi compressive strength. While cement cures, the surface casing of the subject well will be suspended in the well by a mandrel and landing ring system, which is independent from the rig and ensures that casing remains centered while the rig is active on other wells. Before skidding the rig, a TA cap is installed on the subject well.

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

SUPO Data Report
03/07/2024

APD ID: 10400079522
Submission Date: 09/23/2021
Operator Name: CIMAREX ENERGY COMPANY
Well Name: WHITE CITY 8-17-20 FEDERAL COM
Well Number: 1H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes
Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

WHITE_CITY_8_17_20_FEDERAL_COM_E2W2___PUBLIC_ROAD_MAP___EXHIBIT_B___REV1_20231130162517.pdf
WHITE_CITY_8_17_20_FEDERAL_COM_E2W2___EXISTING_ROW___EXHIBIT_C___REV1_20231130152530.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT
Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

WHITE_CITY_8_17_20_FEDERAL_COM_E2W2___ACCESS_ROAD_ROW___EXHIBIT_D___REV1_20231130162155.pdf

WHITE_CITY_8_17_20_FEDERAL_COM_E2W2___OVERALL_PROPOSED_ACCESS___REV1_20231130162302.pdf

New road type: RESOURCE

Length: 392 Feet
Width (ft.): 30

Max slope (%): 2
Max grade (%): 33

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 18

New road access erosion control: Water will be diverted where necessary to avoid ponding, prevent erosion, maintain good drainage, and to be consistent with local drainage patterns.
New road access plan or profile prepared? N

Operator Name: CIMAREX ENERGY COMPANY

Well Name: WHITE CITY 8-17-20 FEDERAL COM **Well Number:** 1H

New road access plan

Access road engineering design? N

Access road engineering design

Turnout? N

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: Caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: Push off and stockpile alongside the location.

Access other construction information:

Access miscellaneous information:

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

Drainage Control

New road drainage crossing: CULVERT

Drainage Control comments: To control and prevent potentially contaminated precipitation from leaving the pad site, a perimeter berm will be installed. Standing water or puddles will not be allowed. Drainage ditches would be established and maintained on the pad and along access roads to divert water away from operations. Natural drainage areas disturbed during construction would be re-contoured to near original condition prior to construction. Erosion Control Best Management Practices would be used where necessary and consist of seeding, fiber rolls, water bars, silt fences, and temporary diversion dikes. Areas disturbed during construction that are no longer needed for operations would be obliterated, re-contoured to near original condition prior to construction. Erosion Control Best Management Practices would be used where necessary and consist of seeding, fiber rolls, water bars, silt fences, and temporary diversion dikes. Areas disturbed during construction that are no longer needed for operations would be obliterated, re-contoured, and reclaimed to near original condition to re-establish natural drainage.

Road Drainage Control Structures (DCS) description: NA

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

WHITE_CITY_8_17_20_FEDERAL_COM_E2W2___1_MILE_RADIUS_MAP___EXHIBIT_E___REV1_20231130152557.pdf

Operator Name: CIMAREX ENERGY COMPANY

Well Name: WHITE CITY 8-17-20 FEDERAL COM **Well Number:** 1H

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description:

Production Facilities map:

WHITE_CITY_8_17_20_FEDERAL_COM_E2W2___OVERALL_BULK_LINE_AND_ROW___REV1_20231130152619.pdf
WHITE_CITY_8_17_20_FEDERAL_COM_E2W2___LOCATION_LAYOUT___EXHIBIT_J___REV1_20231130152654.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: MUNICIPAL

Water source use type: SURFACE CASING
INTERMEDIATE/PRODUCTION CASING

Source latitude: **Source longitude:**

Source datum:

Water source permit type: WATER RIGHT

Permit Number:

Water source transport method: TRUCKING

Source land ownership: FEDERAL

Source transportation land ownership: FEDERAL

Water source volume (barrels): 5000 **Source volume (acre-feet):** 0.64446548

Source volume (gal): 210000

Water source and transportation

White_City_8_17_20_Federal_Com_E2W2___WATER_TRANSPORTATION_MAP___REV1_20231130155534.pdf

Water source comments:

New water well? N

New Water Well Info

Well latitude: **Well Longitude:** **Well datum:**

Well target aquifer:

Operator Name: CIMAREX ENERGY COMPANY

Well Name: WHITE CITY 8-17-20 FEDERAL COM **Well Number:** 1H

Est. depth to top of aquifer(ft): **Est thickness of aquifer:**

Aquifer comments:

Aquifer documentation:

Well depth (ft): **Well casing type:**

Well casing outside diameter (in.): **Well casing inside diameter (in.):**

New water well casing? **Used casing source:**

Drilling method: **Drill material:**

Grout material: **Grout depth:**

Casing length (ft.): **Casing top depth (ft.):**

Well Production type: **Completion Method:**

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: In the event that no caliche is found onsite, caliche will be hauled in from BLM-approved caliche pit in Sec. 7-25S27E or Sec. 5-25S-26E
Construction Materials source location

Section 7 - Methods for Handling

Waste type: DRILLING

Waste content description: Drilling Fluids, drill cuttings, water and other waste produced from the well during drilling operations.
Amount of waste: 15000 barrels

Waste disposal frequency : Weekly

Safe containment description: na

Safe containmant attachment:

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

Disposal location description: Haul to R360 Environmental Solutions, 4507 Carlsbad Hwy, Hobbs, NM 88240

Waste type: SEWAGE

Waste content description: human waste

Amount of waste: 300 gallons

Waste disposal frequency : Weekly

Safe containment description: Waste will be properly contained and disposed of properly at a state approved disposal facility.

Operator Name: CIMAREX ENERGY COMPANY

Well Name: WHITE CITY 8-17-20 FEDERAL COM **Well Number:** 1H

Safe containmant attachment:

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

Disposal location description: A licensed 3rd party contractor will be used to haul and dispose human waste to City of Toyah TX waste water facility.

Waste type: GARBAGE

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

Amount of waste: 32500 pounds

Waste disposal frequency : Weekly

Safe containment description: haul to commercial facility

Safe containmant attachment:

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

Disposal location description: A licensed 3rd party hauls trash to Lea County Landfill

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

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

Reserve pit depth (ft.) **Reserve pit volume (cu. yd.)**

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? N

Description of cuttings location

Cuttings area length (ft.) **Cuttings area width (ft.)**

Cuttings area depth (ft.) **Cuttings area volume (cu. yd.)**

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

WCuttings area liner

Operator Name: CIMAREX ENERGY COMPANY

Well Name: WHITE CITY 8-17-20 FEDERAL COM **Well Number:** 1H

Cuttings area liner specifications and installation description

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

WHITE_CITY_8_17_20_FEDERAL_COM_E2W2___LOCATION_LAYOUT___EXHIBIT_J___REV1_20231130160508.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance **Multiple Well Pad Name:** WHITE CITY 8-17-20 FEDERAL COM

Multiple Well Pad Number: E2W2

Recontouring

WHITE_CITY_8_17_20_FEDERAL_COM_E2W2___RECLAMATION_DIAGRAM___EXHIBIT_P___REV1_20231130160552.pdf

Drainage/Erosion control construction: To control and prevent potentially contaminated precipitation from leaving the pad site, a perimeter berm will be installed. Standing water or puddles will not be allowed. Drainage ditches would be established and maintained on the pad and along access roads to divert water away from operations. Natural drainage areas disturbed during construction would be re-contoured to near original condition prior to construction. Erosion Control Best Management Practices would be used where necessary and consist of seeding, fiber rolls, water bars, silt fences, and temporary diversion dikes. Areas disturbed during construction that are no longer needed for operations would be obliterated, re-contoured to near original condition prior to construction. Erosion Control Best Management Practices would be used where necessary and consist of seeding, fiber rolls, water bars, silt fences, and temporary diversion dikes. Areas disturbed during construction that are no longer needed for operations would be obliterated, re-contoured, and reclaimed to near original condition to re-establish natural drainage.

Drainage/Erosion control reclamation: All disturbed and re-contoured areas would be reseeded according to specifications. Approved seed mixtures would be certified weed free and consist of grasses, forbs, or shrubs similar to the surrounding area. Compacted soil areas may need to be obliterated and reclaimed to near natural conditions by re-contouring all slopes to facilitate and re-establish natural drainage.

Operator Name: CIMAREX ENERGY COMPANY

Well Name: WHITE CITY 8-17-20 FEDERAL COM **Well Number:** 1H

Well pad proposed disturbance (acres): 7.053	**Well pad interim reclamation (acres):** 3.389	**Well pad long term disturbance (acres):** 3.664
Road proposed disturbance (acres): 0.27	**Road interim reclamation (acres):** 0	**Road long term disturbance (acres):** 0.27
Powerline proposed disturbance (acres): 1.768	**Powerline interim reclamation (acres):** 0	**Powerline long term disturbance (acres):** 1.768
Pipeline proposed disturbance (acres): 7.268	**Pipeline interim reclamation (acres):** 0	**Pipeline long term disturbance (acres):** 7.268
Other proposed disturbance (acres): 0	**Other interim reclamation (acres):** 0	**Other long term disturbance (acres):** 0
Total proposed disturbance: 16.359	**Total interim reclamation:** 3.389	**Total long term disturbance:** 12.969999999999999

Disturbance Comments:

Reconstruction method: After well plugging, all disturbed areas would be returned to the original contour or a contour that blends with the surrounding landform including roads unless the surface owner requests that they be left intact. In consultation with the surface owners it will be determined if any gravel or similar materials used to reinforce an area are to be removed, buried, or left in place during final reclamation. Salvaged topsoil, if any, would be re-spread evenly over the surfaces to be re-vegetated. As necessary, the soil surface would be prepared to provide a seedbed for re-establishment of desirable vegetation. Site preparation may include gouging, scarifying, dozer track-walking, mulching, or fertilizing. Reclamation, Re-vegetation, and Drainage: All disturbed and re-contoured areas would be reseeded using techniques outlined under Phase I and II of this plan or as specified by the land owner. Approved seed mixtures would be certified weed free and consist of grasses, forbs, or shrubs similar to the surrounding area. Compacted soil areas may need to be obliterated and reclaimed to near natural conditions by re-contouring all slopes to facilitate and re-establish natural drainage.

Topsoil redistribution: The original stock piled topsoil, if any, will be spread evenly over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pad, production facilities, roads, pipelines, and power line corridors as close as possible to the original topography. The location will then be seeded.

Soil treatment: The soil surface would be prepared to provide a seedbed for reestablishment of desirable vegetation. Establish control of erosion and invasion of non-native plants to reestablish plant community.
Existing Vegetation at the well pad: na

Existing Vegetation at the well pad

Existing Vegetation Community at the road: na

Existing Vegetation Community at the road

Existing Vegetation Community at the pipeline: na

Existing Vegetation Community at the pipeline

Existing Vegetation Community at other disturbances: na

Existing Vegetation Community at other disturbances

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Operator Name: CIMAREX ENERGY COMPANY

Well Name: WHITE CITY 8-17-20 FEDERAL COM **Well Number:** 1H

Seedling transplant description

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed

Seed Table

Seed Summary

Total pounds/Acre:

Seed Type	Pounds/Acre

Seed reclamation

Operator Contact/Responsible Official

First Name: Laci **Last Name:** Luig

Phone: (432)571-7810 **Email:** laci.luig@coterra.com

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment

Weed treatment plan description: NA

Weed treatment plan

Monitoring plan description: NA

Monitoring plan

Success standards: NA

Pit closure description: NA

Pit closure attachment:

Section 11 - Surface Ownership

Operator Name: CIMAREX ENERGY COMPANY

Well Name: WHITE CITY 8-17-20 FEDERAL COM **Well Number:** 1H

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Disturbance type: PIPELINE

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Operator Name: CIMAREX ENERGY COMPANY

Well Name: WHITE CITY 8-17-20 FEDERAL COM **Well Number:** 1H

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Disturbance type: OTHER

Describe: POWERLINE

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Operator Name: CIMAREX ENERGY COMPANY

Well Name: WHITE CITY 8-17-20 FEDERAL COM **Well Number:** 1H

Section 12 - Other

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

ROW Type(s):

ROW

SUPO Additional Information:

Use a previously conducted onsite? Y

Previous Onsite information: Onsite Date: 6/8/2021 BLM Personnel on site: McKenna Ryder Cimarex Energy personnel on site: Barry Hunt

Other SUPO

WHITE_CITY_8_17_20_FEDERAL_COM_E2W2___OVERALL_SURFACE_USE_AREA___REV1_20231130162033.pdf
WHITE_CITY_8_17_20_FEDERAL_COM_E2W2___SURFACE_USE_AREA___REV1_20231130162043.pdf
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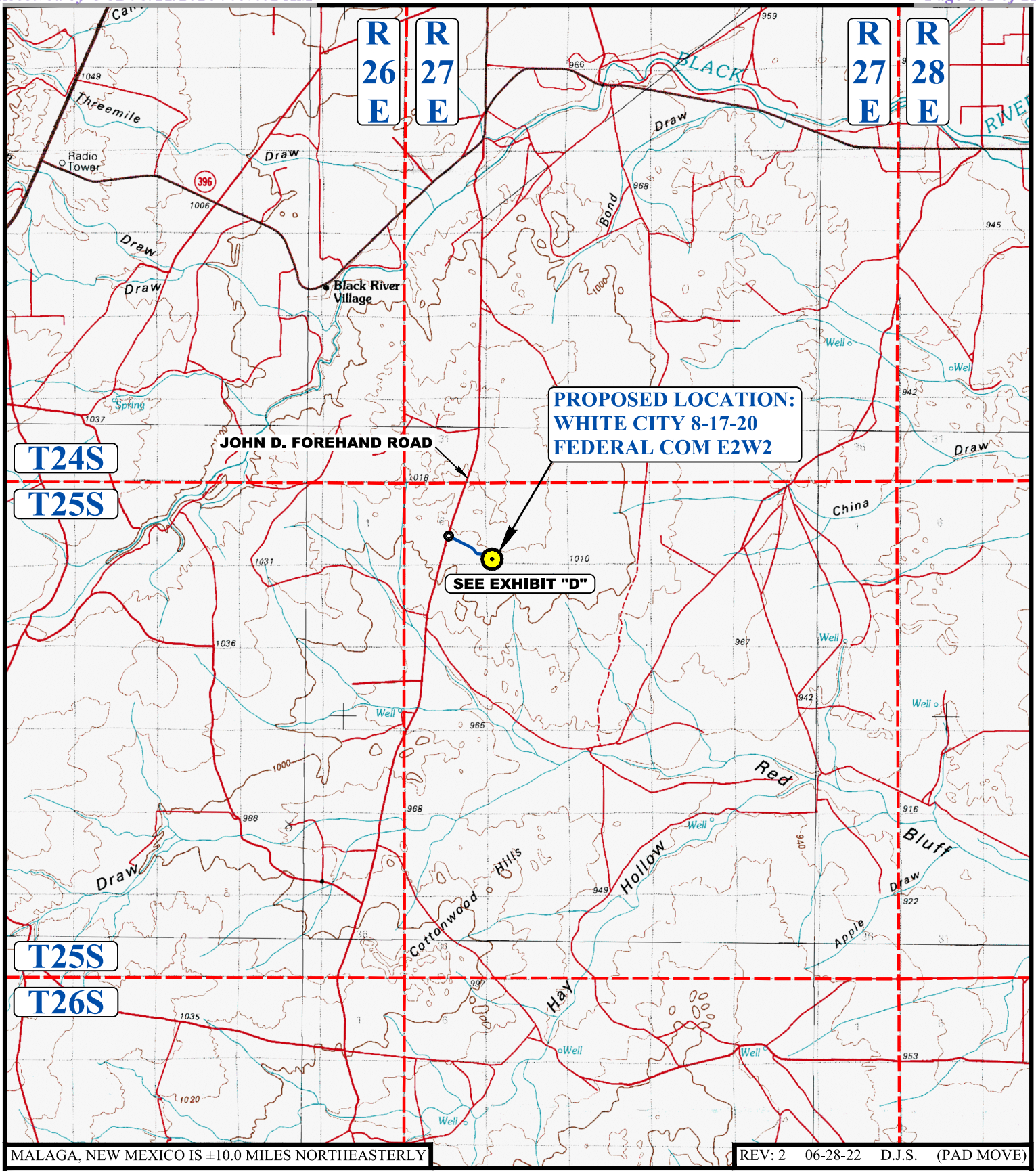
WHITE_CITY_8_17_20_FEDERAL_COM_E2W2___ARCHAEOLOGICAL_SURVEY_BOUNDARY___EXHIBIT_L___REV1_20231130162741.pdf



MALAGA, NEW MEXICO IS ±10.0 MILES NORTHEASTERLY

REV: 2 06-28-22 D.J.S. (PAD MOVE)

LEGEND:

PROPOSED LOCATION

N

CIMAREX ENERGY CO.

WHITE CITY 8-17-20 FEDERAL COM E2W2
283' FSL 509' FWL (APPROX. CENTER OF PAD)
SW 1/4 SW 1/4, SECTION 5, T25S, R27E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	R.C., M.D.	06-17-22	SCALE
DRAWN BY	D.J.S.	07-01-21	1 : 100,000

PUBLIC ACCESS ROAD MAP **EXHIBIT B**

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

BEGINNING AT THE INTERSECTION OF JOHN D. FOREHAND ROAD AND AN EXISTING ROAD TO THE SOUTHEAST (LOCATED AT NAD 83 LATITUDE N32.1568° AND LONGITUDE W104.2288°) PROCEED IN A SOUTHEASTERLY, THEN EASTERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 392' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM THE INTERSECTION OF JOHN D. FOREHAND ROAD AND AN EXISTING ROAD TO THE SOUTHEAST (LOCATED AT NAD 83 LATITUDE N32.1568° AND LONGITUDE W104.2288°) TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 0.6 MILES.

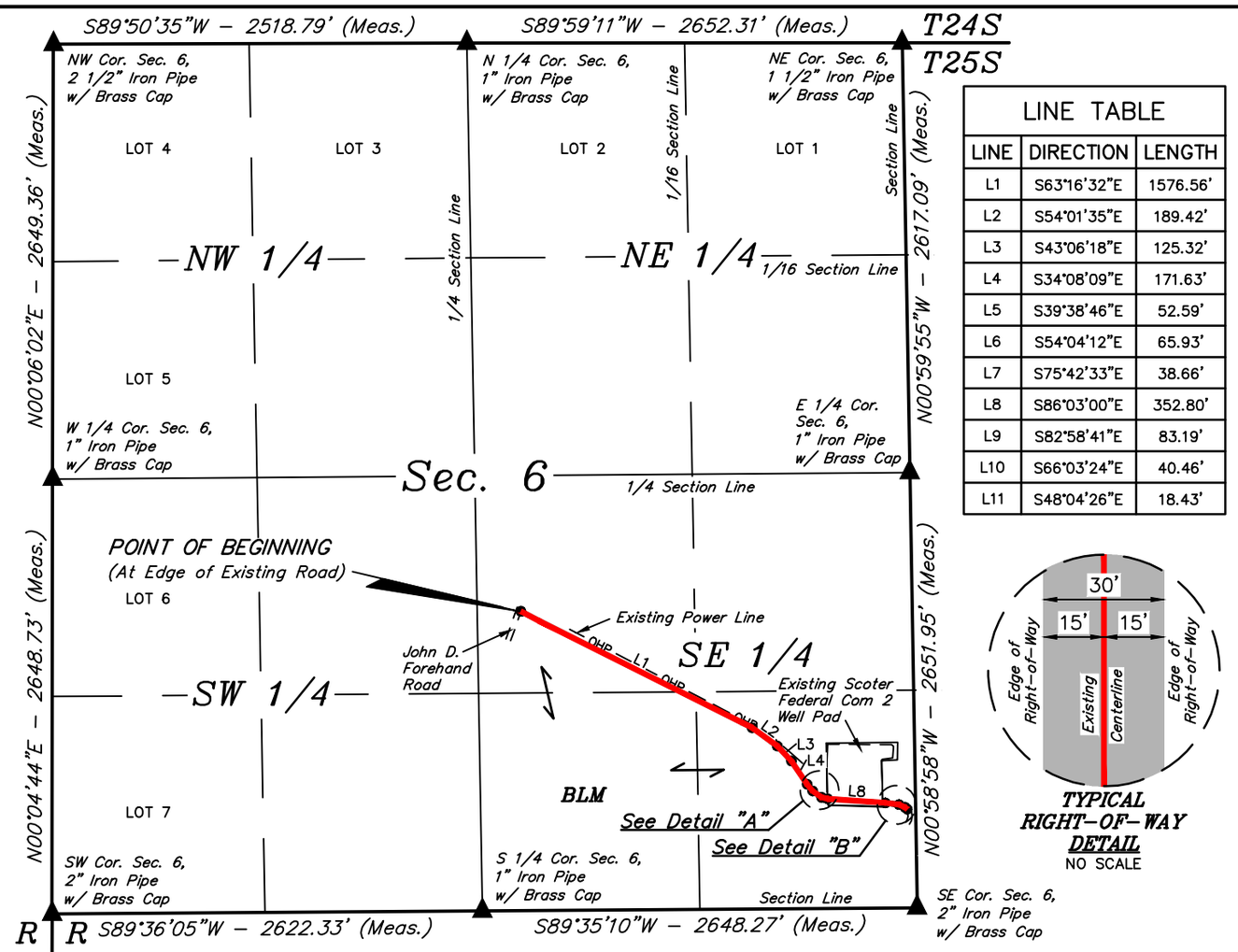
REV: 3	06-28-22	D.J.S.	(PAD MOVE)

CIMAREX ENERGY CO.

WHITE CITY 8-17-20 FEDERAL COM E2W2
283' FSL 509' FWL (APPROX. CENTER OF PAD)
SW 1/4 SW 1/4, SECTION 5, T25S, R27E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	R.C., M.D.	06-17-22	
DRAWN BY	D.J.S.	07-01-21	
ROAD DESCRIPTION		EXHIBIT A	

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S63°16'32"E	1576.56'
L2	S54°01'35"E	189.42'
L3	S43°06'18"E	125.32'
L4	S34°08'09"E	171.63'
L5	S39°38'46"E	52.59'
L6	S54°04'12"E	65.93'
L7	S75°42'33"E	38.66'
L8	S86°03'00"E	352.80'
L9	S82°58'41"E	83.19'
L10	S66°03'24"E	40.46'
L11	S48°04'26"E	18.43'

TYPICAL RIGHT-OF-WAY DETAIL
NO SCALE

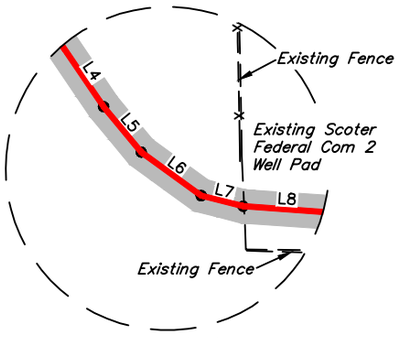
EXISTING ROAD RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

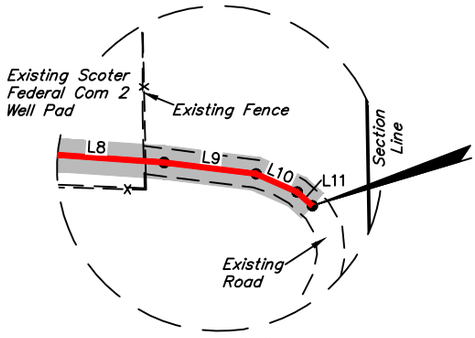
COMMENCING AT THE SOUTHWEST CORNER OF SECTION 6, T25S, R27E, N.M.P.M.; THENCE N89°36'05"E 2622.33' ALONG THE SOUTH LINE OF THE SW 1/4 OF SAID SECTION 6 TO THE SOUTH 1/4 CORNER OF SAID SECTION 6; THENCE N07°18'54"E 1840.00' TO A POINT IN THE NW 1/4 SE 1/4 OF SAID SECTION 6 AND THE POINT OF BEGINNING; THENCE S63°16'32"E 1576.56'; THENCE S54°01'35"E 189.42'; THENCE S43°06'18"E 125.32'; THENCE S34°08'09"E 171.63'; THENCE S39°38'46"E 52.59'; THENCE S54°04'12"E 65.93'; THENCE S75°42'33"E 38.66'; THENCE S86°03'00"E 352.80'; THENCE S82°58'41"E 83.19'; THENCE S66°03'24"E 40.46'; THENCE S48°04'26"E 18.43' TO A POINT IN THE SE 1/4 SE 1/4 OF SAID SECTION 6 AND THE POINT OF TERMINATION, WHICH BEARS N05°47'46"W 603.26' FROM THE SOUTHEAST CORNER OF SAID SECTION 6. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 1.870 ACRES MORE OR LESS.

POINT OF BEGINNING BEARS N07°18'54"E 1840.00' FROM THE SOUTH 1/4 CORNER OF SECTION 6, T25S, R27E, N.M.P.M.

POINT OF TERMINATION BEARS N05°47'46"W 603.26' FROM THE SOUTHEAST CORNER OF SECTION 6, T25S, R27E, N.M.P.M.



Detail "A"
No Scale



Detail "B"
No Scale

ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 6 (SE 1/4)	2714.97	164.54	1.870

▲ = SECTION CORNERS LOCATED.

1000' 500' 0' 1000'

CERTIFICATE
THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NEW MEXICO 23782 PROFESSIONAL SURVEYOR
07-19-22

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

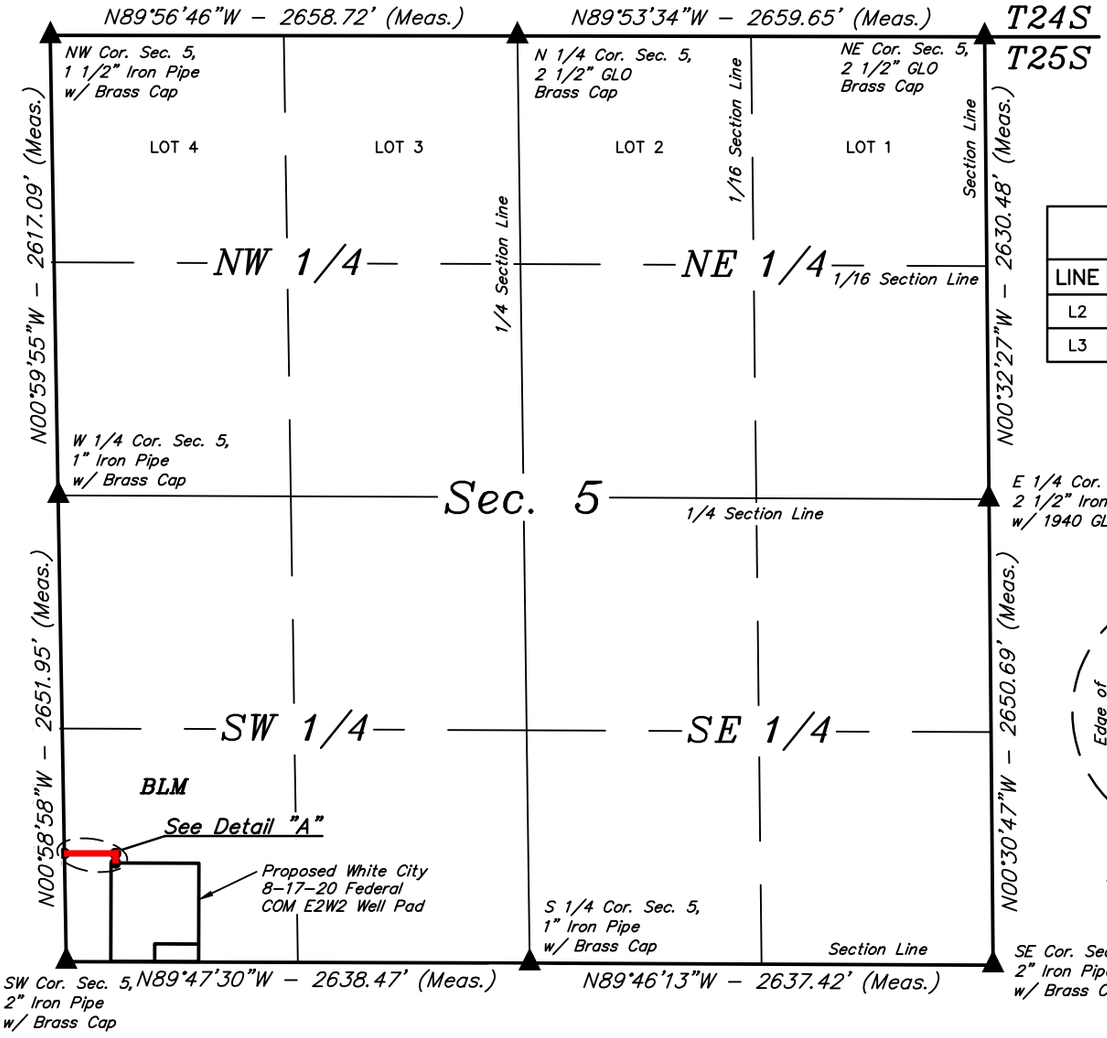
N

CIMAREX ENERGY CO.

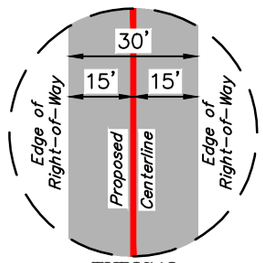
WHITE CITY 8-17-20 FEDERAL COM E2W2 ON BLM LANDS IN SECTION 6, T25S, R27E, N.M.P.M. EDDY COUNTY, NEW MEXICO

SURVEYED BY	A.H., J.H.	07-14-22	SCALE
DRAWN BY	T.J.S.	07-19-21	1" = 1000'
FILE	C-7368-A		
EXISTING ROAD R-O-W			EXHIBIT C

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



LINE TABLE		
LINE	DIRECTION	LENGTH
L2	S89°51'07"E	290.95'
L3	S00°12'30"W	52.64'



TYPICAL RIGHT-OF-WAY DETAIL
NO SCALE

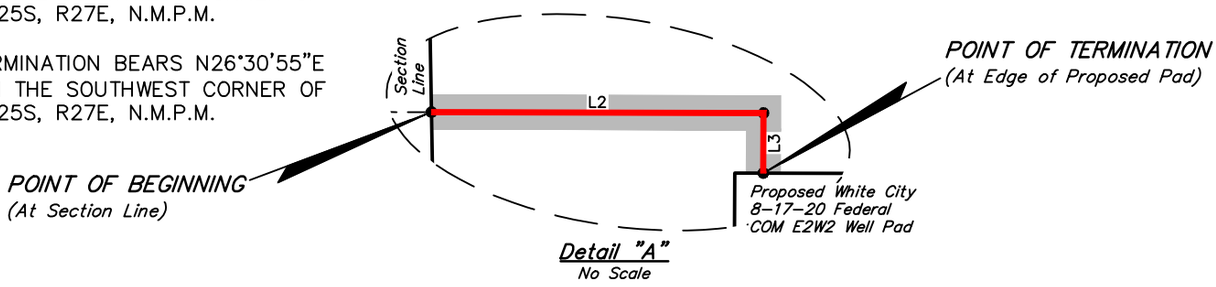
ROAD RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE WEST 1/4 CORNER OF SECTION 5, T25S, R27E, N.M.P.M.; THENCE S00°58'48"E 2651.95' ALONG THE WEST LINE OF THE SW 1/4 OF SAID SECTION 5 TO THE SOUTHWEST CORNER OF SAID SECTION 5; THENCE N00°58'58"W 615.13' ALONG THE WEST LINE OF THE SW 1/4 SW 1/4 OF SAID SECTION 5 TO THE POINT OF BEGINNING; THENCE S89°51'07"E 290.95'; THENCE S00°12'30"W 52.64' TO A POINT IN THE SW 1/4 SW 1/4 OF SAID SECTION 5 AND THE POINT OF TERMINATION, WHICH BEARS N26°30'55"E 627.67' FROM THE SOUTHWEST CORNER OF SAID SECTION 5. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.237 ACRES MORE OR LESS.

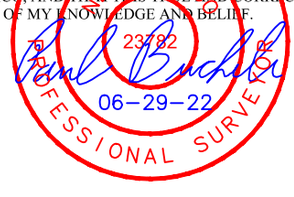
POINT OF BEGINNING BEARS N00°58'58"W 615.13' FROM THE SOUTHWEST CORNER OF SECTION 5, T25S, R27E, N.M.P.M.

POINT OF TERMINATION BEARS N26°30'55"E 627.67' FROM THE SOUTHWEST CORNER OF SECTION 5, T25S, R27E, N.M.P.M.



Detail "A"
No Scale

CERTIFICATE
THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 5 (SW 1/4)	343.59	20.82	0.237

▲ = SECTION CORNERS LOCATED.

1000' 500' 0' 1000'

NOTES:
- The maximum grade of existing ground for the proposed access road is ±2.49%.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

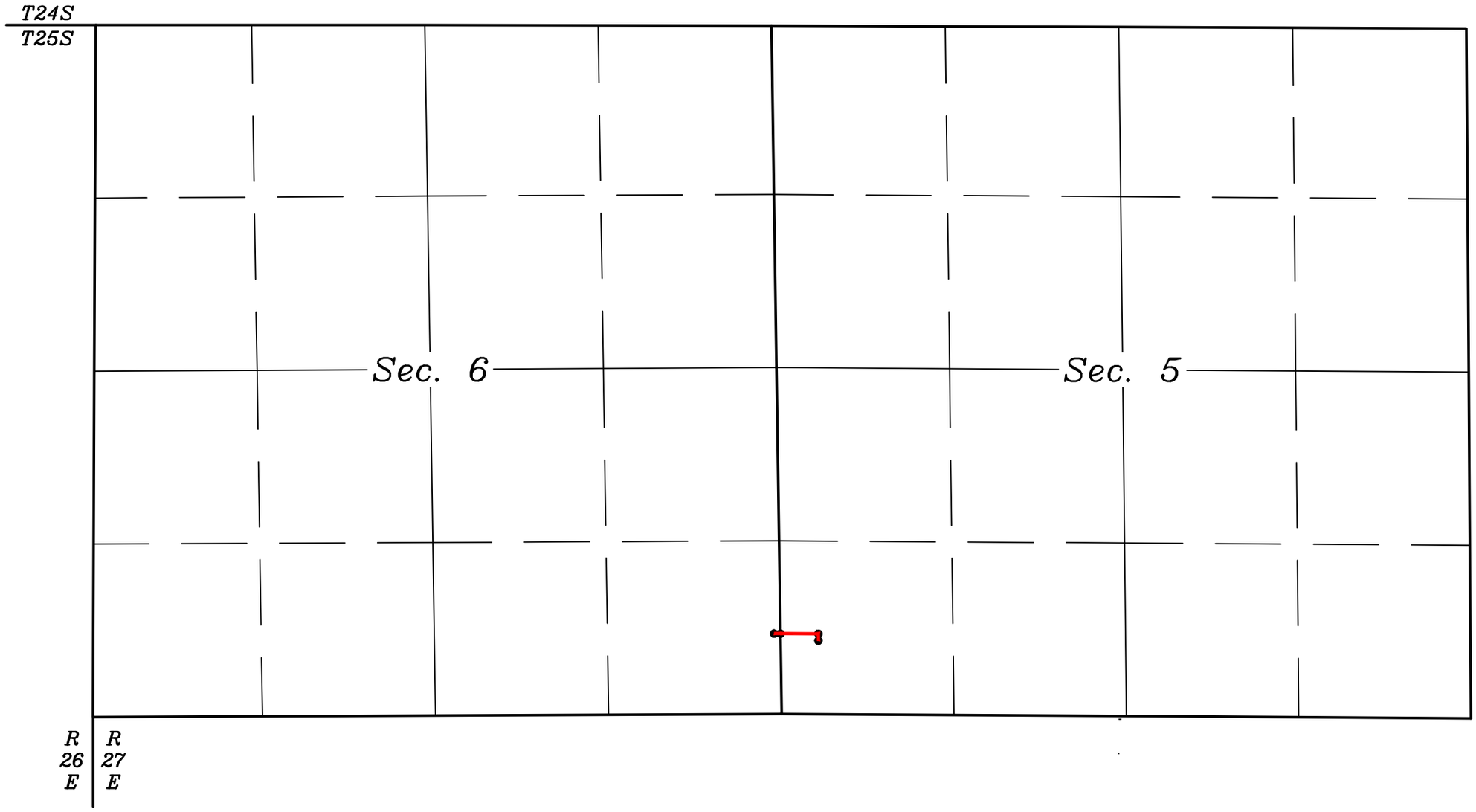
N

CIMAREX ENERGY CO.

WHITE CITY 8-17-20 FEDERAL COM E2W2 ON BLM LANDS IN SECTION 5, T25S, R27E, N.M.P.M. EDDY COUNTY, NEW MEXICO

SURVEYED BY	R.C., M.D.	06-17-22	SCALE
DRAWN BY	T.J.S.	06-29-22	1" = 1000'
FILE	C-7368-B		
ACCESS ROAD R-O-W			EXHIBIT D

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



LEGEND:

- PROPOSED CENTERLINE
- SECTION LINE
- 1/4 SECTION LINE
- 1/16 SECTION LINE
- PROPERTY LINE

N

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

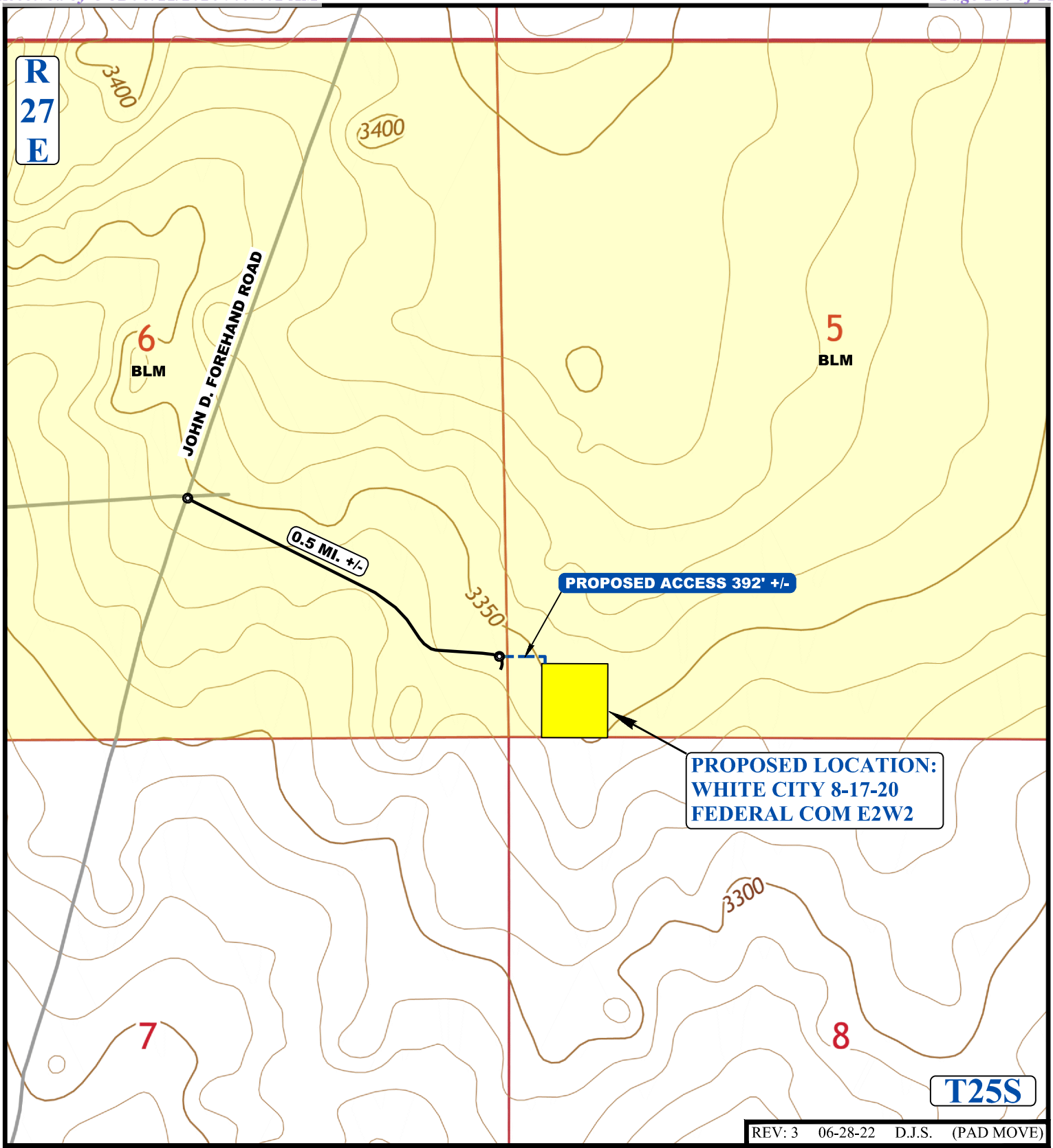
UINTAH ENGINEERING & LAND SURVEYING

CIMAREX ENERGY CO.

WHITE CITY 8-17-20 FEDERAL COM E2W2
SECTIONS 5 & 6, T25S, R27E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	R.C., M.D.	06-17-22	SCALE
DRAWN BY	T.J.S.	06-29-22	N/A

OVERALL PROPOSED ACCESS



REV: 3 06-28-22 D.J.S. (PAD MOVE)

NOTE: PARCEL DATA SHOWN HAS BEEN OBTAINED FROM VARIOUS SOURCES AND SHOULD BE USED FOR MAPPING, GRAPHIC AND PLANNING PURPOSES ONLY. NO WARRANTY IS MADE BY UINTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

LEGEND:

EXISTING ROAD

PROPOSED ROAD

N

CIMAREX ENERGY CO.

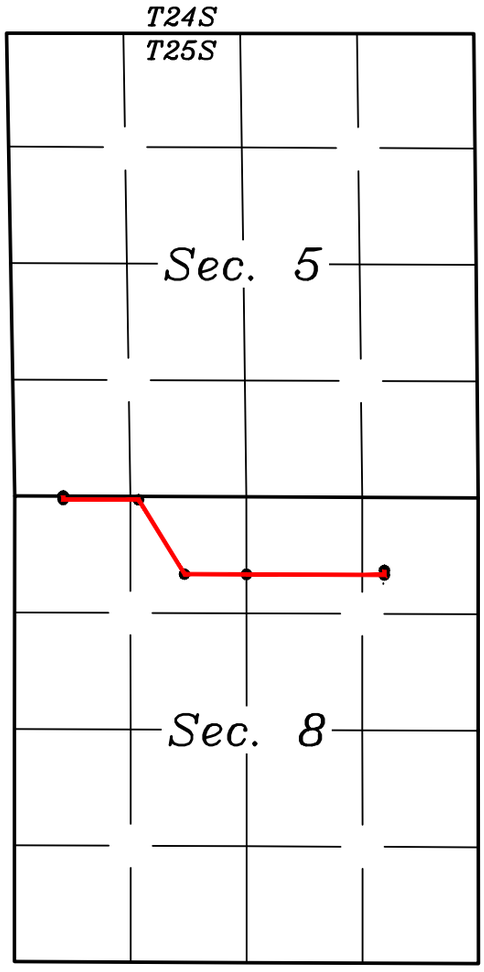
WHITE CITY 8-17-20 FEDERAL COM E2W2
283' FSL 509' FWL (APPROX. CENTER OF PAD)
SW 1/4 SW 1/4, SECTION 5, T25S, R27E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	R.C., M.D.	06-17-22	SCALE
DRAWN BY	D.J.S.	07-01-21	1 : 12,000

NEW ROAD MAP **EXHIBIT D**

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



LEGEND:

- PROPOSED CENTERLINE
- SECTION LINE
- 1/4 SECTION LINE
- 1/16 SECTION LINE
- PROPERTY LINE

N

CIMAREX ENERGY CO.

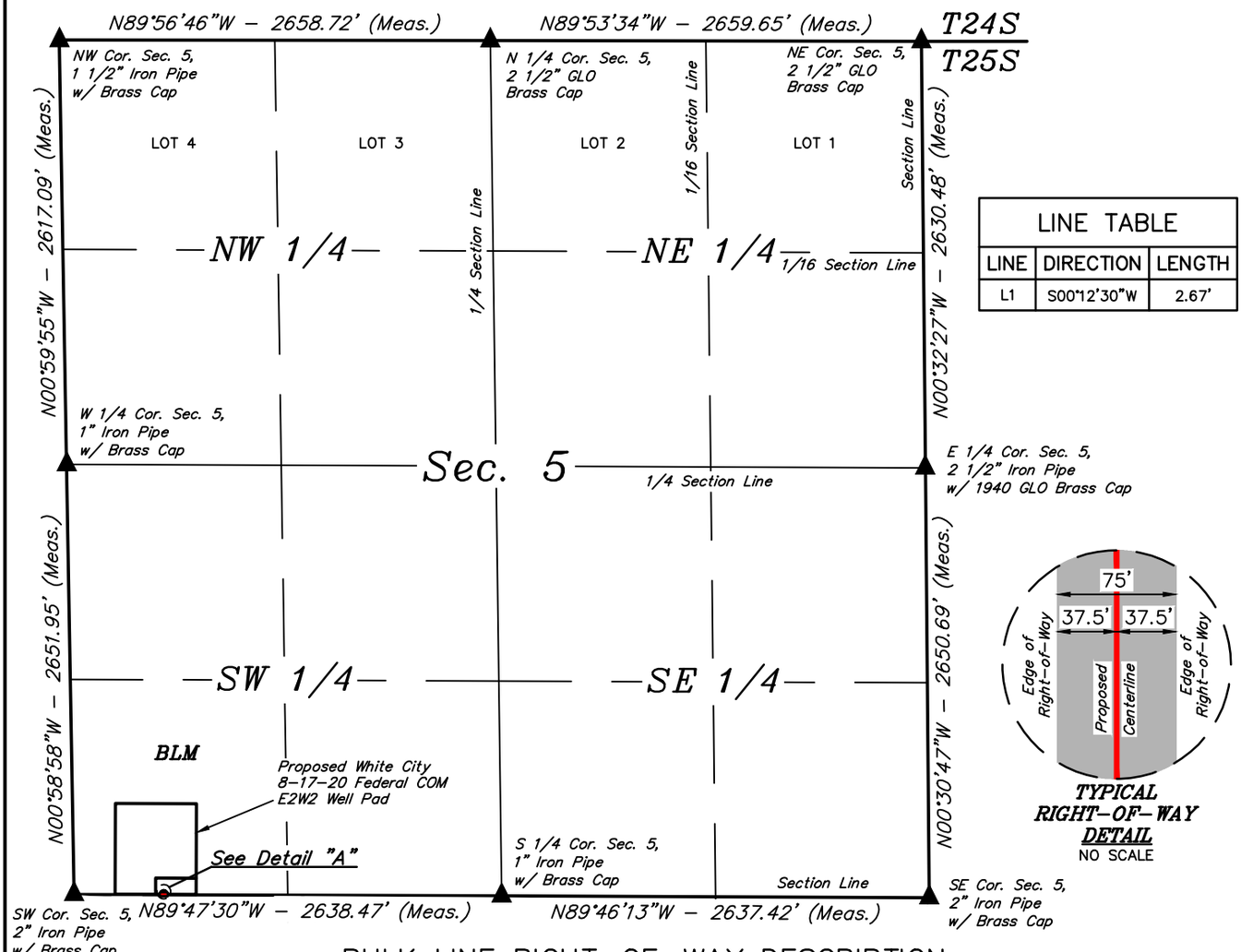
WHITE CITY 8-17-20 FEDERAL COM E2W2
SECTIONS 5 & 8, T25S, R27E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	R.C., M.D.	06-17-22	**SCALE**
DRAWN BY	T.J.S.	06-29-22	N/A

OVERALL BULK LINE

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S00°12'30"W	2.67'

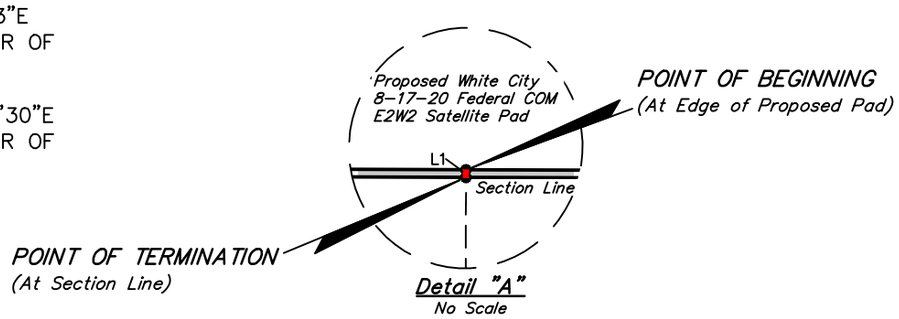
BULK LINE RIGHT-OF-WAY DESCRIPTION

A 75' WIDE RIGHT-OF-WAY 37.5' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE SOUTH 1/4 CORNER OF SECTION 5, T25S, R27E, N.M.P.M.; THENCE N89°47'30"W 2638.47' ALONG THE SOUTH LINE OF THE SW 1/4 OF SAID SECTION 5 TO THE SOUTHWEST CORNER OF SAID SECTION 5; THENCE N89°55'53"E 553.17' TO A POINT IN THE SW 1/4 SW 1/4 OF SAID SECTION 5 AND THE POINT OF BEGINNING; THENCE S00°12'30"W 2.67' TO A POINT ON THE SOUTH LINE OF THE SW 1/4 SW 1/4 OF SAID SECTION 5 AND THE POINT OF TERMINATION, WHICH BEARS S89°47'30"E 553.17' FROM THE SOUTHWEST CORNER OF SAID SECTION 5. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.005 ACRES MORE OR LESS.

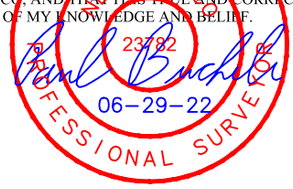
POINT OF BEGINNING BEARS N89°55'53"E 553.17' FROM THE SOUTHWEST CORNER OF SECTION 5, T25S, R27E, N.M.P.M.

POINT OF TERMINATION BEARS S89°47'30"E 553.17' FROM THE SOUTHWEST CORNER OF SECTION 5, T25S, R27E, N.M.P.M.



CERTIFICATE

THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 5 (SW 1/4)	2.67	0.16	0.005

1000' 500' 0' 1000'

▲ = SECTION CORNERS LOCATED.

REV: 3 06-29-22 T.J.S. (PAD MOVE & R-O-W CHANGE)

NOTES:
- Water bars to be constructed along route every 6' of elevation change.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

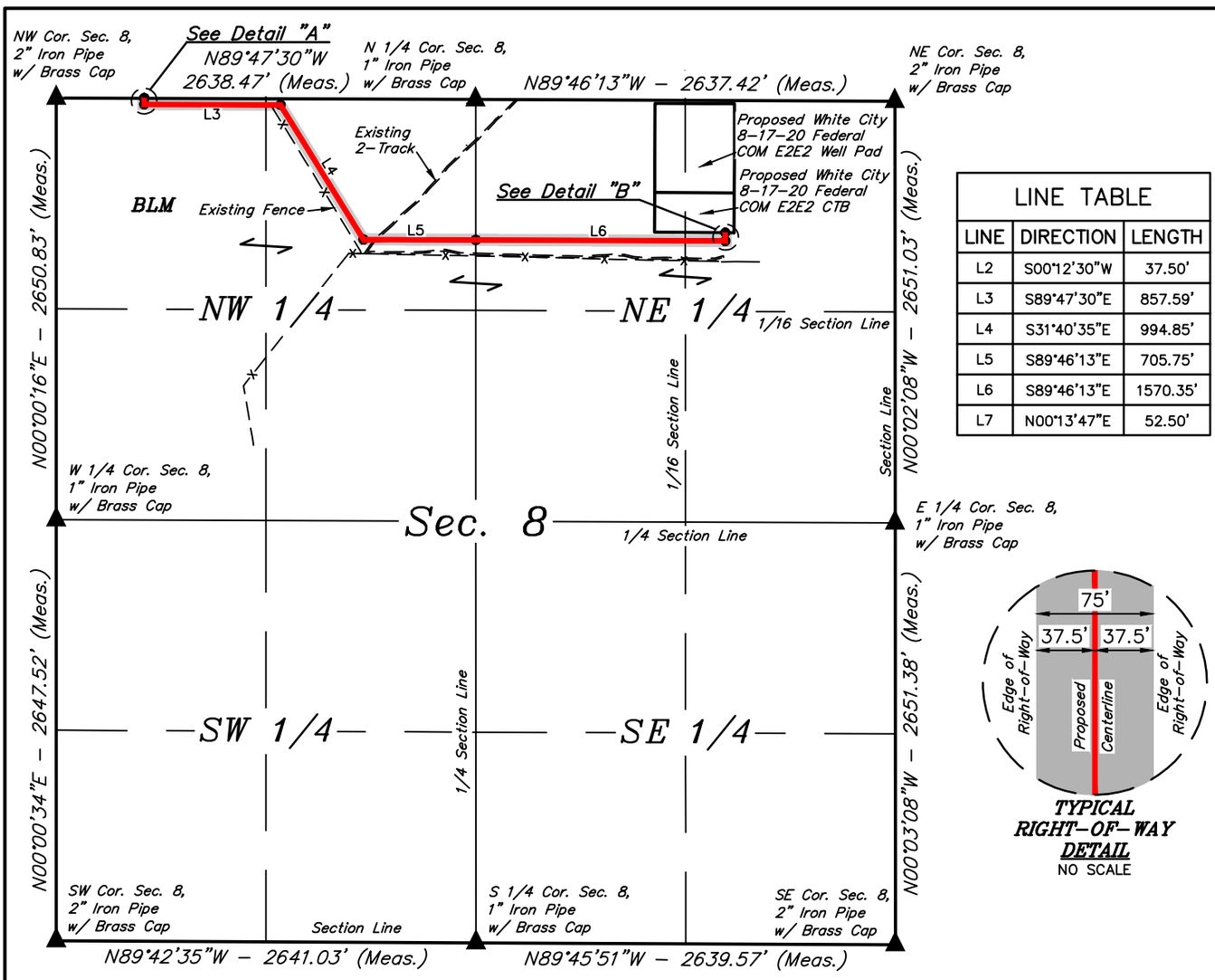
N

CIMAREX ENERGY CO.

WHITE CITY 8-17-20 FEDERAL COM E2W2 ON BLM LANDS IN SECTION 5, T25S, R27E, N.M.P.M. EDDY COUNTY, NEW MEXICO

SURVEYED BY	R.C., M.D.	06-17-22	SCALE
DRAWN BY	D.J.S.	07-01-21	1" = 1000'
FILE	C-7368-A		
BULK LINE R-O-W			EXHIBIT M

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



LINE TABLE		
LINE	DIRECTION	LENGTH
L2	S00°12'30"W	37.50'
L3	S89°47'30"E	857.59'
L4	S31°40'35"E	994.85'
L5	S89°46'13"E	705.75'
L6	S89°46'13"E	1570.35'
L7	N00°13'47"E	52.50'

TYPICAL RIGHT-OF-WAY DETAIL
NO SCALE

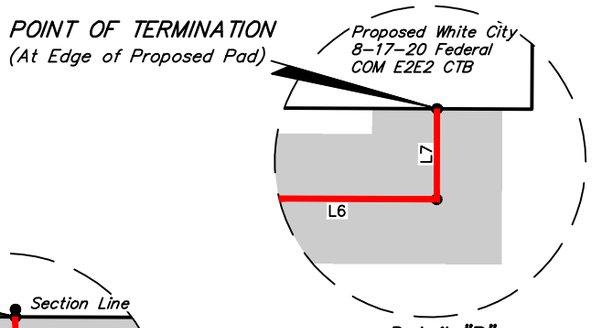
BULK LINE RIGHT-OF-WAY DESCRIPTION

A 75' WIDE RIGHT-OF-WAY 37.5' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

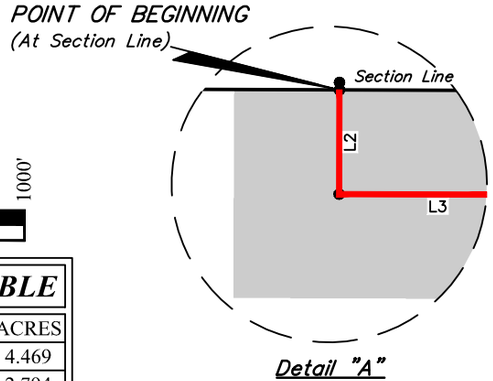
COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 8, T25S, R27E, N.M.P.M.; THENCE N89°47'30"E 2638.47' ALONG THE NORTH LINE OF THE NW 1/4 OF SAID SECTION 8 TO THE NORTHWEST CORNER OF SAID SECTION 8; THENCE S89°47'30"E 553.17' ALONG THE NORTH LINE OF THE NW 1/4 NW 1/4 OF SAID SECTION 8 TO THE POINT OF BEGINNING; THENCE S00°12'30"W 37.50'; THENCE S89°47'30"E 857.59'; THENCE S31°40'35"E 994.85'; THENCE S89°46'13"E 705.75' TO A POINT ON THE EAST LINE OF THE NE 1/4 NW 1/4 OF SAID SECTION 8; THENCE CONTINUING S89°46'13"E 1570.35'; THENCE N00°13'47"E 52.50' TO A POINT IN THE NE 1/4 NE 1/4 OF SAID SECTION 8 AND THE POINT OF TERMINATION, WHICH BEARS S52°15'08"W 1348.82' FROM THE NORTHEAST CORNER OF SAID SECTION 8. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 7.263 ACRES MORE OR LESS.

POINT OF BEGINNING BEARS S89°47'30"E 553.17' FROM THE NORTHWEST CORNER OF SECTION 8, T25S, R27E, N.M.P.M.

POINT OF TERMINATION BEARS S52°15'08"W 1348.82' FROM THE NORTHEAST CORNER OF SECTION 8, T25S, R27E, N.M.P.M.



Detail "B"
No Scale



Detail "A"
No Scale

ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 8 (NW 1/4)	2595.69	157.31	4.469
SEC. 8 (NE 1/4)	1622.85	98.35	2.794
TOTAL	4218.54	255.66	7.263

▲ = SECTION CORNERS LOCATED.

CERTIFICATE
THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REV: 3	06-29-22	T.J.S.	(PAD MOVE & R-O-W CHANGE)

NOTES:
- Water bars to be constructed along route every 6' of elevation change.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

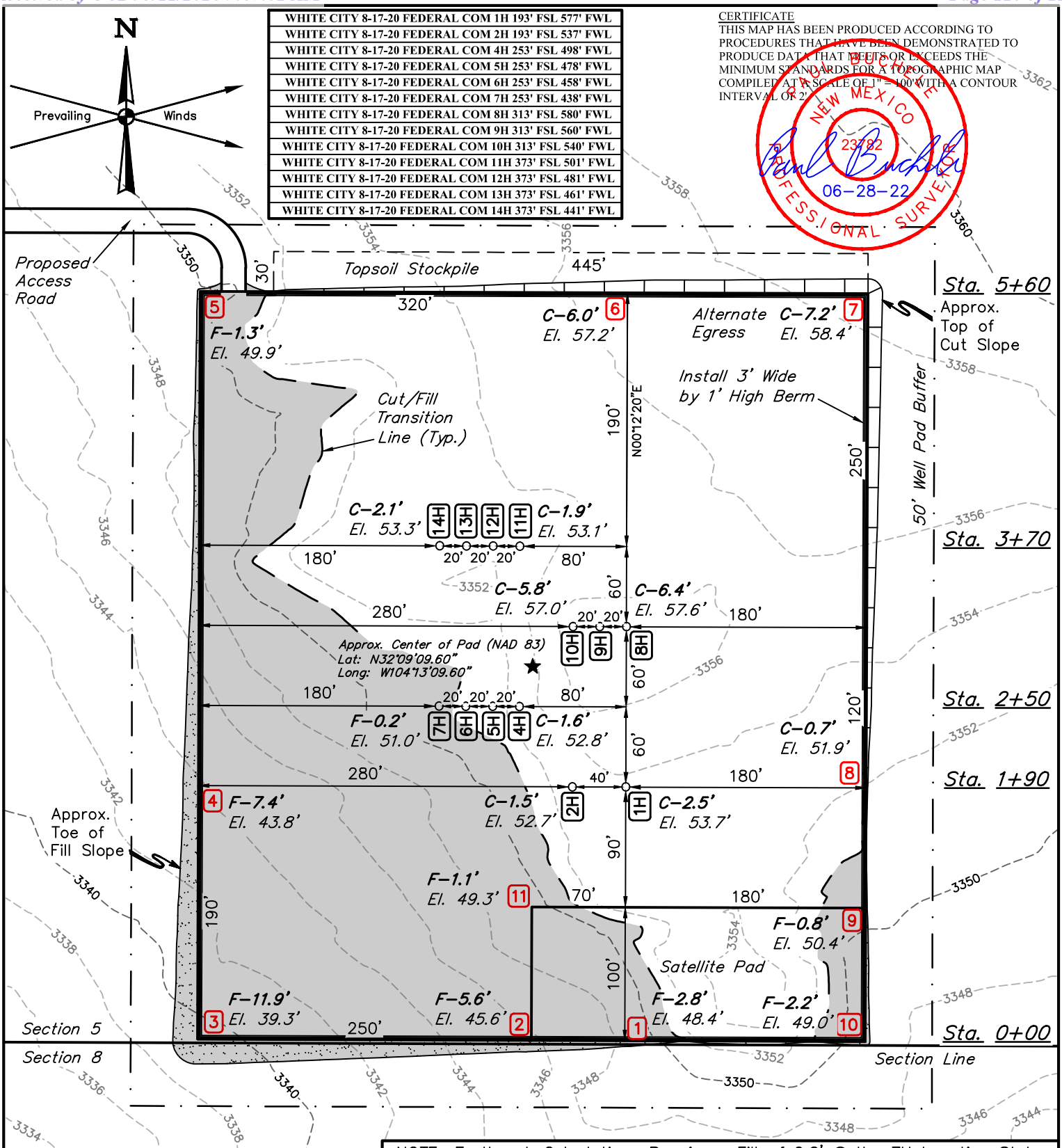
N

CIMAREX ENERGY CO.

WHITE CITY 8-17-20 FEDERAL COM E2W2 ON BLM LANDS IN SECTION 8, T25S, R27E, N.M.P.M. EDDY COUNTY, NEW MEXICO

SURVEYED BY	R.C., M.D.	06-17-22	SCALE
DRAWN BY	D.J.S.	07-01-21	1" = 1000'
FILE	C-7368-B		
BULK LINE R-O-W			EXHIBIT M

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



REV: 3 06-28-22 D.J.S. (PAD MOVE)

FINISHED GRADE ELEVATION = **3351.2'**

NOTE: Earthwork Calculations Require a Fill of 0.2' @ the 7H Location Stake For Balance. All Fill is to be Compacted to a Minimum of 95% of the Maximum Dry Density Obtained by AASHTO Method t-99.

NOTES:

- Flare pit is to be located a min. of 100' from the wellhead.
- Contours shown at 2' intervals.
- Cut/Fill slopes 1 1/2:1 (Typ.)
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

CIMAREX ENERGY CO.

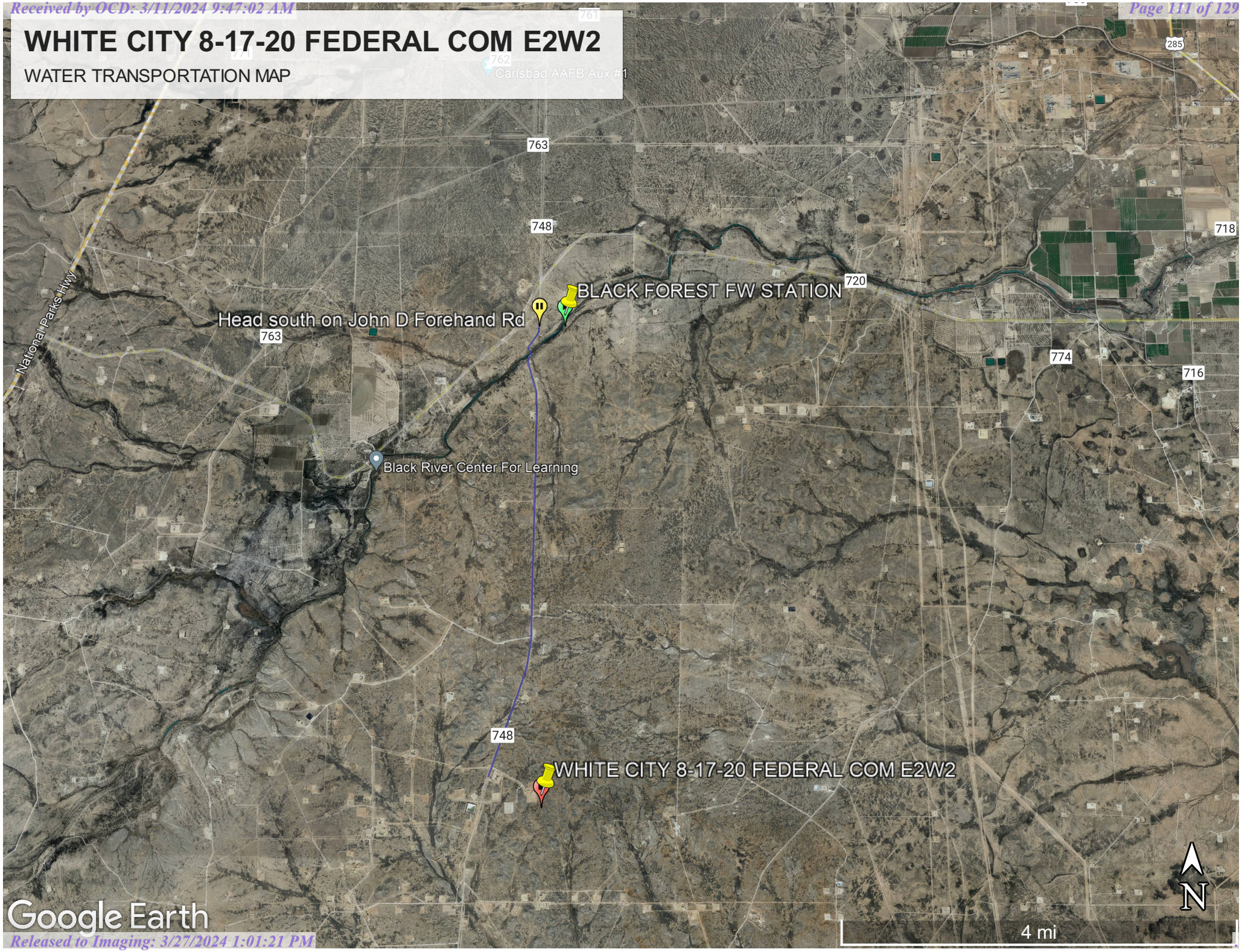
WHITE CITY 8-17-20 FEDERAL COM E2W2
283' FSL 509' FWL (APPROX. CENTER OF PAD)
SW 1/4 SW 1/4, SECTION 5, T25S, R27E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

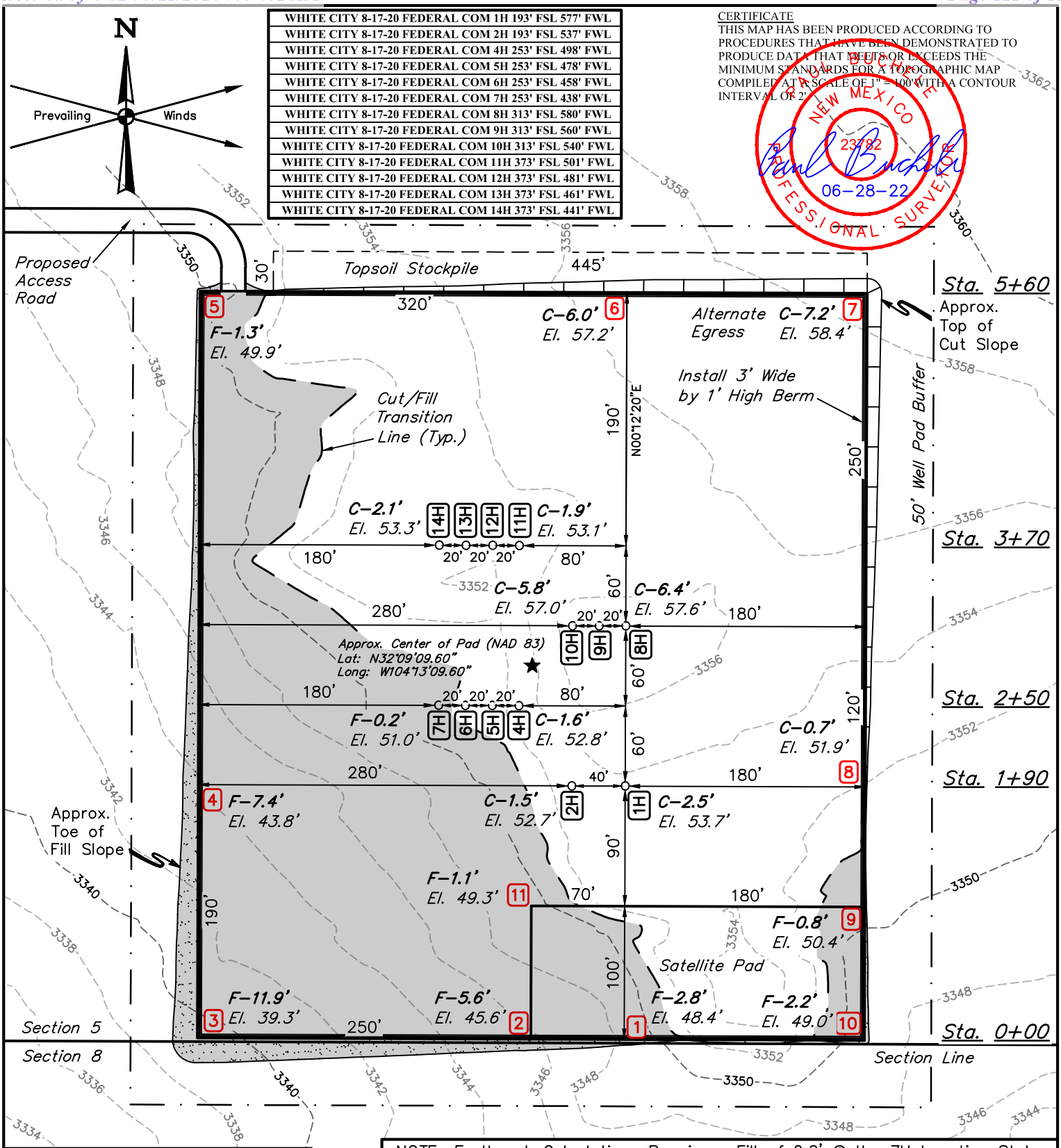
SURVEYED BY	R.C., M.D.	06-17-22	SCALE
DRAWN BY	D.J.S.	06-30-21	1" = 100'
LOCATION LAYOUT			EXHIBIT J

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

WHITE CITY 8-17-20 FEDERAL COM E2W2

WATER TRANSPORTATION MAP





REV: 3 06-28-22 D.J.S. (PAD MOVE)

FINISHED GRADE ELEVATION = **3351.2'**

NOTE: Earthwork Calculations Require a Fill of 0.2' @ the 7H Location Stake For Balance. All Fill is to be Compacted to a Minimum of 95% of the Maximum Dry Density Obtained by AASHTO Method t-99.

NOTES:

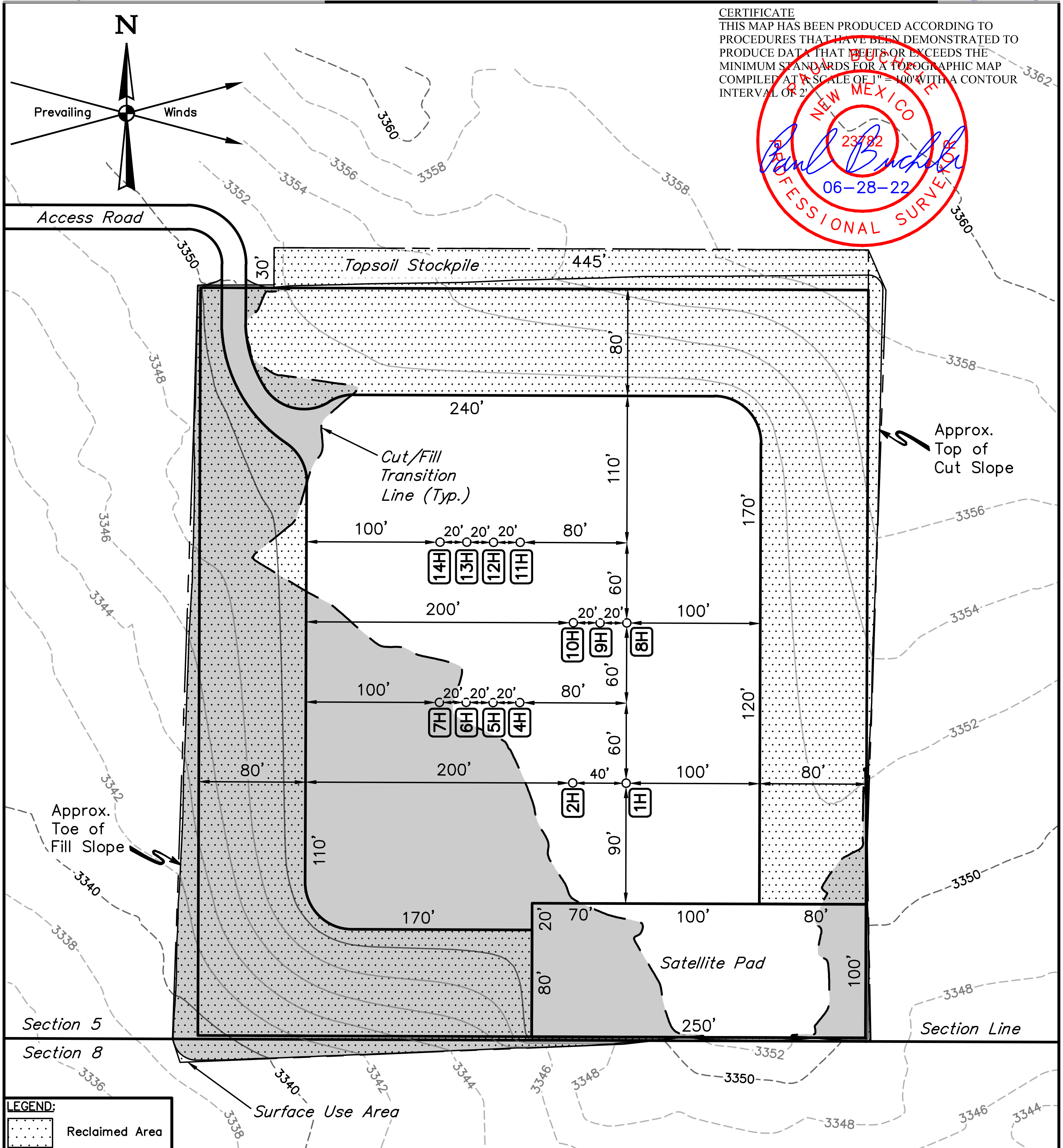
- Flare pit is to be located a min. of 100' from the wellhead.
- Contours shown at 2' intervals.
- Cut/Fill slopes 1 1/2:1 (Typ.)
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

CIMAREX ENERGY CO.

WHITE CITY 8-17-20 FEDERAL COM E2W2
283' FSL 509' FWL (APPROX. CENTER OF PAD)
SW 1/4 SW 1/4, SECTION 5, T25S, R27E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	R.C., M.D.	06-17-22	SCALE
DRAWN BY	D.J.S.	06-30-21	1" = 100'
LOCATION LAYOUT			EXHIBIT J

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



APPROXIMATE PRODUCTION PAD ACREAGE = ±3.664 ACRES
APPROXIMATE RECLAIMED AREA ACREAGE = ±3.389 ACRES
TOTAL ACREAGE = ±7.053 ACRES

REV: 3 06-28-22 D.J.S. (PAD MOVE)

NOTES:

- Contours shown at 2' intervals.

CIMAREX ENERGY CO.

WHITE CITY 8-17-20 FEDERAL COM E2W2
283' FSL 509' FWL (APPROX. CENTER OF PAD)
SW 1/4 SW 1/4, SECTION 5, T25S, R27E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	R.C., M.D.	06-17-22	SCALE
DRAWN BY	R.J.	07-27-21	1" = 100'

RECLAMATION DIAGRAM **EXHIBIT P**

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
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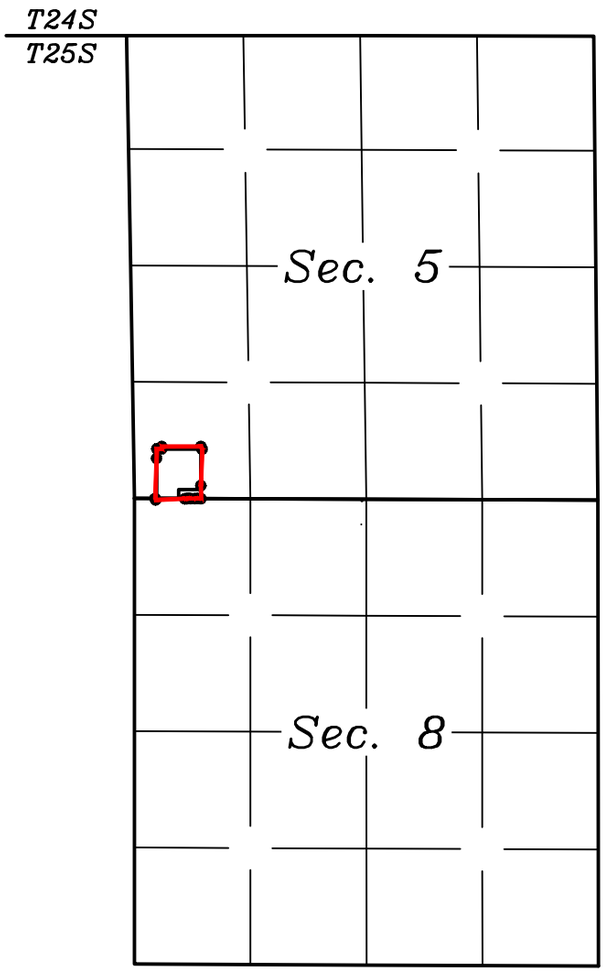
Vernal, UT 84078 * (435) 789-1017



LEGEND:

- PROPOSED CENTERLINE
- SECTION LINE
- 1/4 SECTION LINE
- 1/16 SECTION LINE
- PROPERTY LINE

N

CIMAREX ENERGY CO.

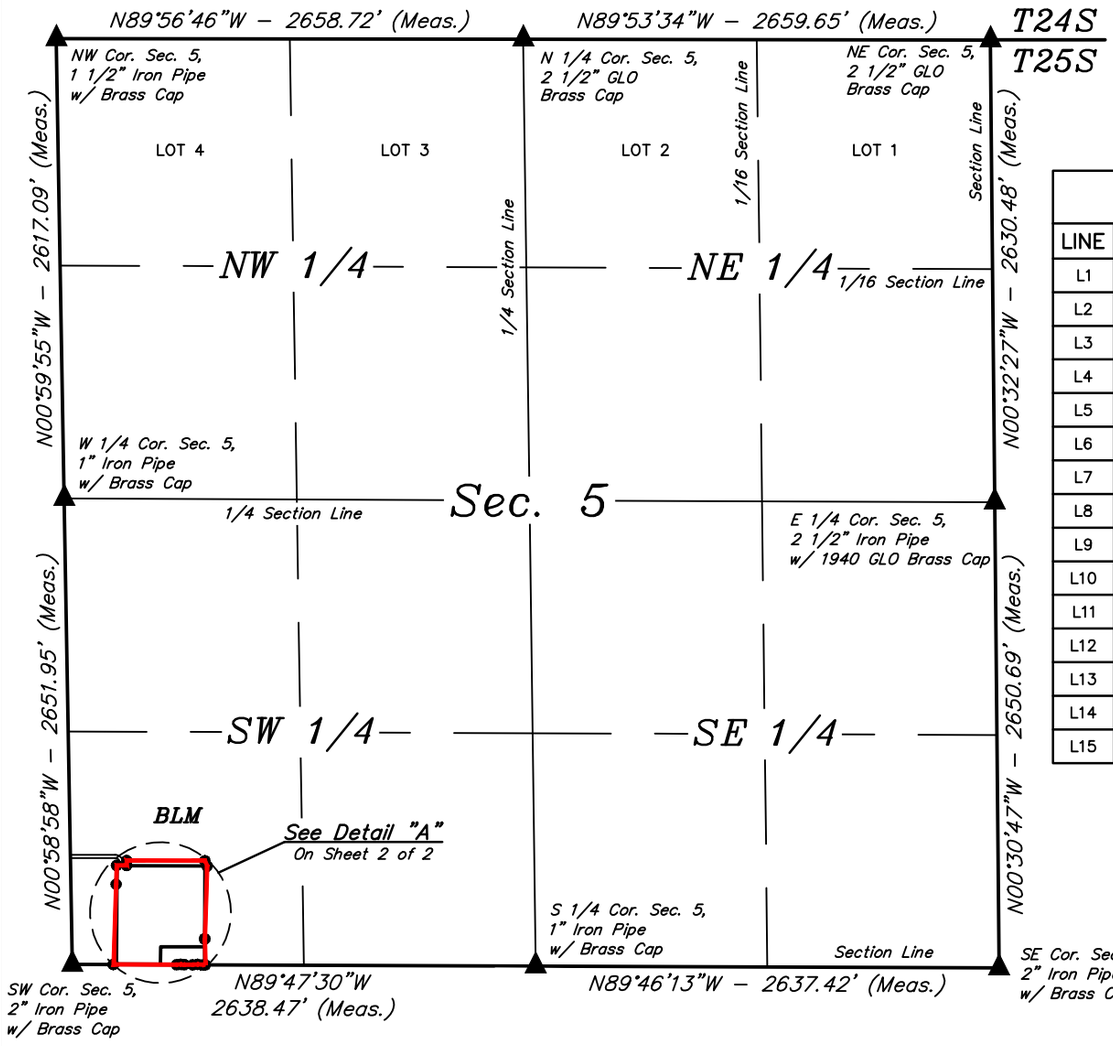
WHITE CITY 8-17-20 FEDERAL COM E2W2
SECTIONS 5 & 8, T25S, R27E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	R.C., D.J.S.	06-17-22	**SCALE**
DRAWN BY	D.J.S.	07-01-22	N/A

OVERALL SURFACE USE AREA

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N01°58'02"E	457.31'
L2	N01°40'22"E	107.46'
L3	N89°49'15"E	57.09'
L4	N00°12'20"E	27.76'
L5	S89°47'40"E	445.00'
L6	S23°20'40"E	32.96'
L7	S01°55'55"W	414.87'
L8	S01°02'24"E	147.82'
L9	N89°47'30"W	11.52'
L10	N85°14'01"W	30.97'
L11	S85°17'55"W	28.44'
L12	N88°44'38"W	48.99'
L13	N84°47'50"W	20.14'
L14	S83°33'49"W	23.14'
L15	N89°47'30"W	360.01'

SURFACE USE AREA DESCRIPTION

COMMENCING AT THE SOUTH 1/4 CORNER OF SECTION 5, T25S, R27E, N.M.P.M.; THENCE N89°47'30"W 2638.47' ALONG THE SOUTH LINE OF THE SW 1/4 OF SAID SECTION 5 TO THE SOUTHWEST CORNER OF SAID SECTION 5; THENCE S89°47'30"E 234.29' ALONG THE SOUTH LINE OF THE SW 1/4 SW 1/4 OF SAID SECTION 5 TO THE POINT OF BEGINNING; THENCE N01°58'02"E 457.31'; THENCE N01°40'22"E 107.46'; THENCE N89°49'15"E 57.09'; THENCE N00°12'20"E 27.76'; THENCE S89°47'40"E 445.00'; THENCE S23°20'40"E 32.96'; THENCE S01°55'55"W 414.87'; THENCE S01°02'24"E 147.82' TO A POINT ON THE SOUTH LINE OF THE SW 1/4 SW 1/4 OF SAID SECTION; THENCE N89°47'30"W 11.52' ALONG THE SOUTH LINE OF THE SW 1/4 SW 1/4 OF SAID SECTION 5; THENCE N85°14'01"W 30.97'; THENCE S85°17'55"W 28.44'; THENCE N88°44'38"W 48.99'; THENCE N84°47'50"W 20.14'; THENCE S83°33'49"W 23.14' TO A POINT ON THE SOUTH LINE OF THE SW 1/4 SW 1/4 OF SAID SECTION 5; THENCE N89°47'30"W 360.01' ALONG THE SOUTH LINE OF THE SW 1/4 SW 1/4 OF SAID SECTION 5 TO THE POINT OF BEGINNING. CONTAINS 6.975 ACRES MORE OR LESS.

POINT OF BEGINNING BEARS S89°47'30"E
234.29' FROM THE SOUTHWEST CORNER OF
SECTION 5, T25S, R27E, N.M.P.M.

1000' 500' 0' 1000'

ACREAGE TABLE	
LOCATION	ACRES
SEC. 5 (SW 1/4)	6.975

▲ = SECTION CORNERS LOCATED.

CERTIFICATE
THIS IS TO CERTIFY THAT THIS SURFACE USE AREA PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

STATE OF NEW MEXICO 23782 PROFESSIONAL SURVEYOR
07-01-22

Sheet 1 of 2

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

N

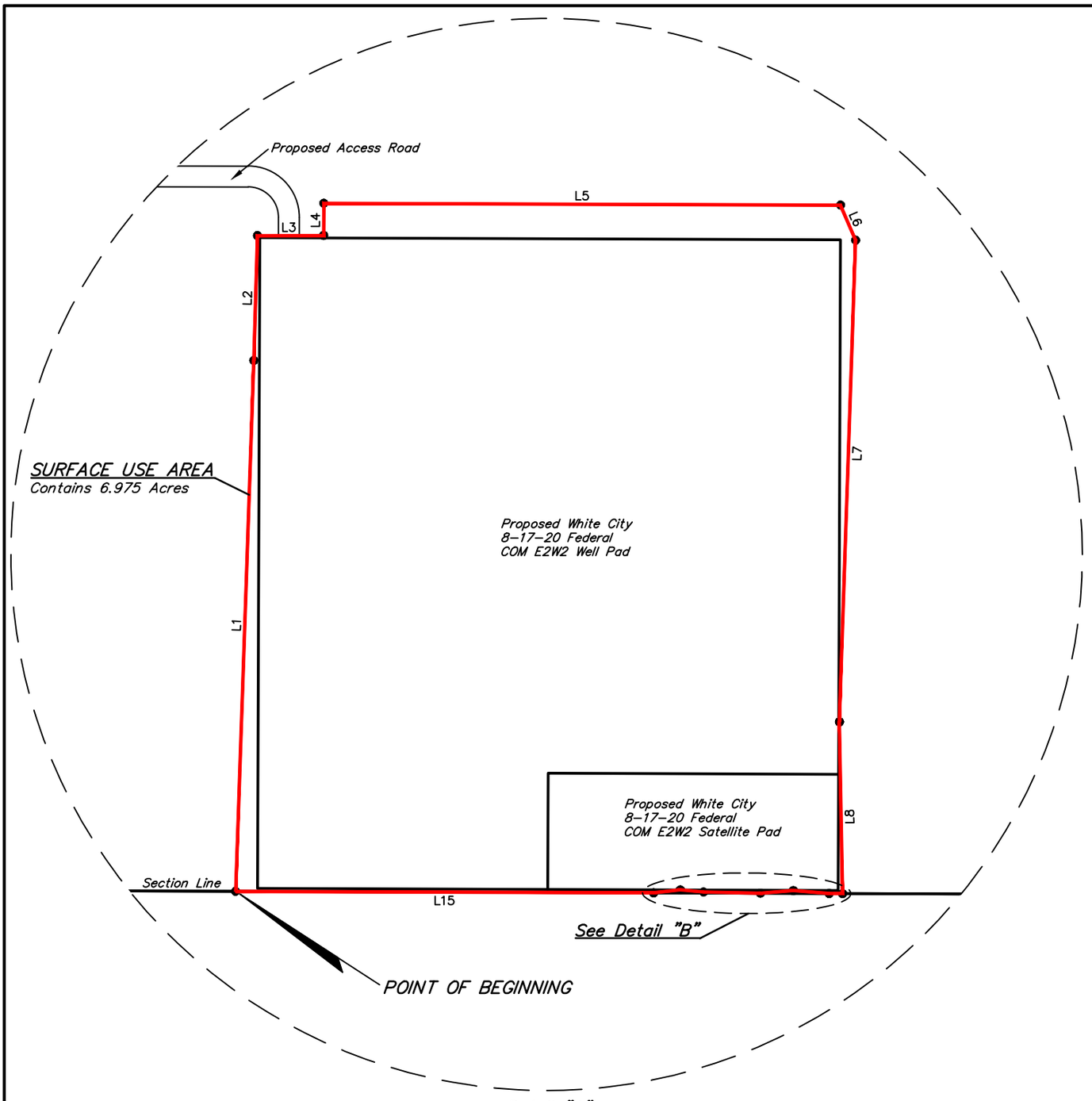
CIMAREX ENERGY CO.

WHITE CITY 8-17-20 FEDERAL COM E2W2 ON BLM LANDS IN SECTION 5, T25S, R27E, N.M.P.M. EDDY COUNTY, NEW MEXICO

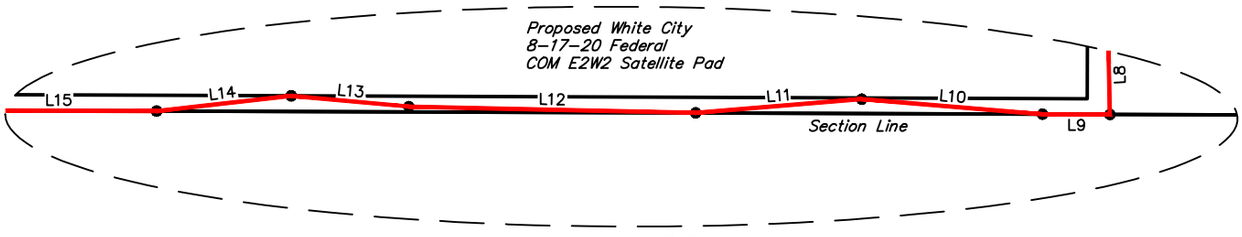
SURVEYED BY	R.C., M.D.	06-17-22	SCALE
DRAWN BY	D.J.S.	07-01-22	1" = 1000'
FILE	C-7368-A1		

SURFACE USE AREA

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



Detail "A"
No Scale



Detail "B"
No Scale

CERTIFICATE

THIS IS TO CERTIFY THAT THIS SURFACE USE AREA PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Sheet 2 of 2

CIMAREX ENERGY CO.

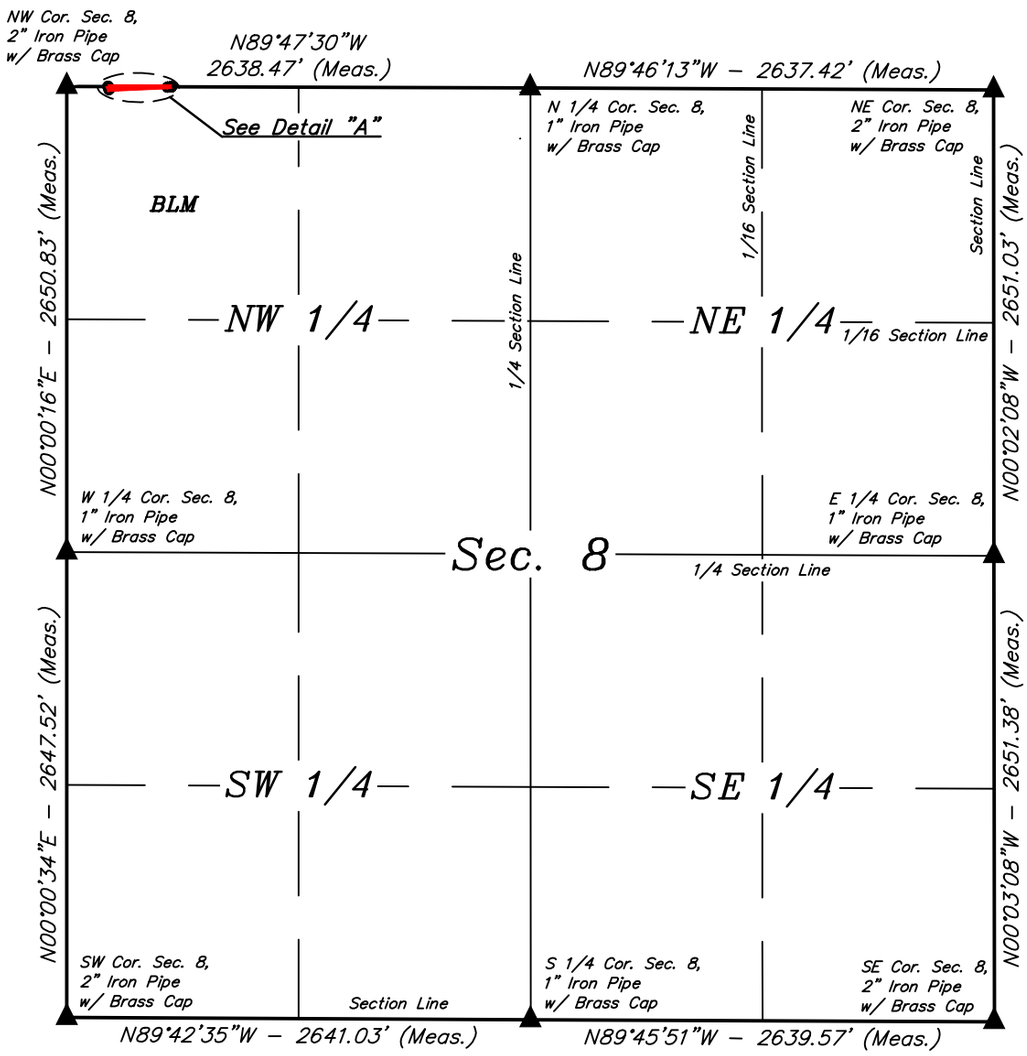
WHITE CITY 8-17-20 FEDERAL COM E2W2 ON BLM LANDS IN SECTION 5, T25S, R27E, N.M.P.M. EDDY COUNTY, NEW MEXICO

SURVEYED BY	R.C., M.D.	06-17-22	SCALE
DRAWN BY	D.J.S.	07-01-22	N/A
FILE	C-7368-A2		

SURFACE USE AREA

UINTAH ENGINEERING & LAND SURVEYING

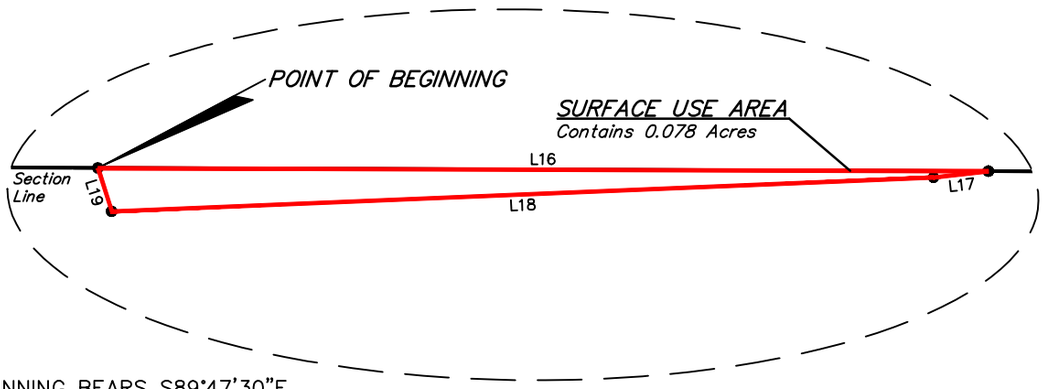
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



LINE TABLE		
LINE	DIRECTION	LENGTH
L16	S89°47'30"E	360.01'
L17	S83°33'49"W	22.32'
L18	S87°38'03"W	332.56'
L19	N17°34'07"W	18.40'

SURFACE USE AREA DESCRIPTION

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 8, T25S, R27E, N.M.P.M.; THENCE N89°47'30"W 2638.47' ALONG THE NORTH LINE OF THE NW 1/4 OF SAID SECTION 8 TO THE NORTHWEST CORNER OF SAID SECTION 8; THENCE S89°47'30"E 234.29' ALONG THE NORTH LINE OF THE NW 1/4 NW 1/4 OF SAID SECTION 8 TO THE POINT OF BEGINNING; THENCE S89°47'30"E 360.01' ALONG THE NORTH LINE OF THE NW 1/4 NW 1/4 OF SAID SECTION 8; THENCE S83°33'49"W 22.32'; THENCE S87°38'03"W 332.56'; THENCE N17°34'07"W 18.40' TO THE POINT OF BEGINNING. CONTAINS 0.078 ACRES MORE OR LESS.



Detail "A"
No Scale

POINT OF BEGINNING BEARS S89°47'30"E 234.29' FROM THE NORTHWEST CORNER OF SECTION 8, T25S, R27E, N.M.P.M.

1000' 500' 0' 1000'

ACREAGE TABLE	
LOCATION	ACRES
SEC. 8 (NW 1/4)	0.078

▲ = SECTION CORNERS LOCATED.

CERTIFICATE
THIS IS TO CERTIFY THAT THIS SURFACE USE AREA PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

STATE OF NEW MEXICO
23782
PAUL BUCHHEIT
07-01-22
PROFESSIONAL SURVEYOR

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

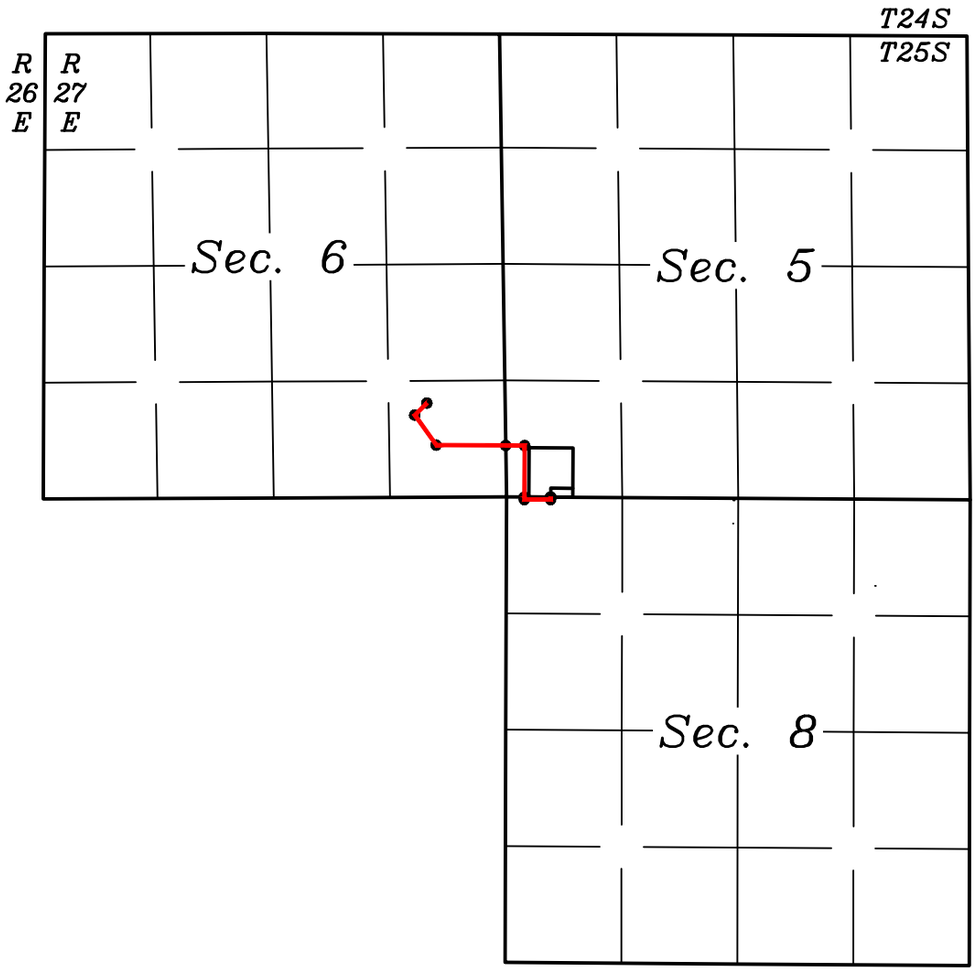
N

CIMAREX ENERGY CO.

WHITE CITY 8-17-20 FEDERAL COM E2W2
ON BLM LANDS IN
SECTION 8, T25S, R27E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	R.C., M.D.	06-17-22	SCALE
DRAWN BY	D.J.S.	07-01-22	1" = 1000'
FILE	C-7368-B		

SURFACE USE AREA



LEGEND:

- PROPOSED CENTERLINE
- SECTION LINE
- 1/4 SECTION LINE
- 1/16 SECTION LINE
- PROPERTY LINE

N

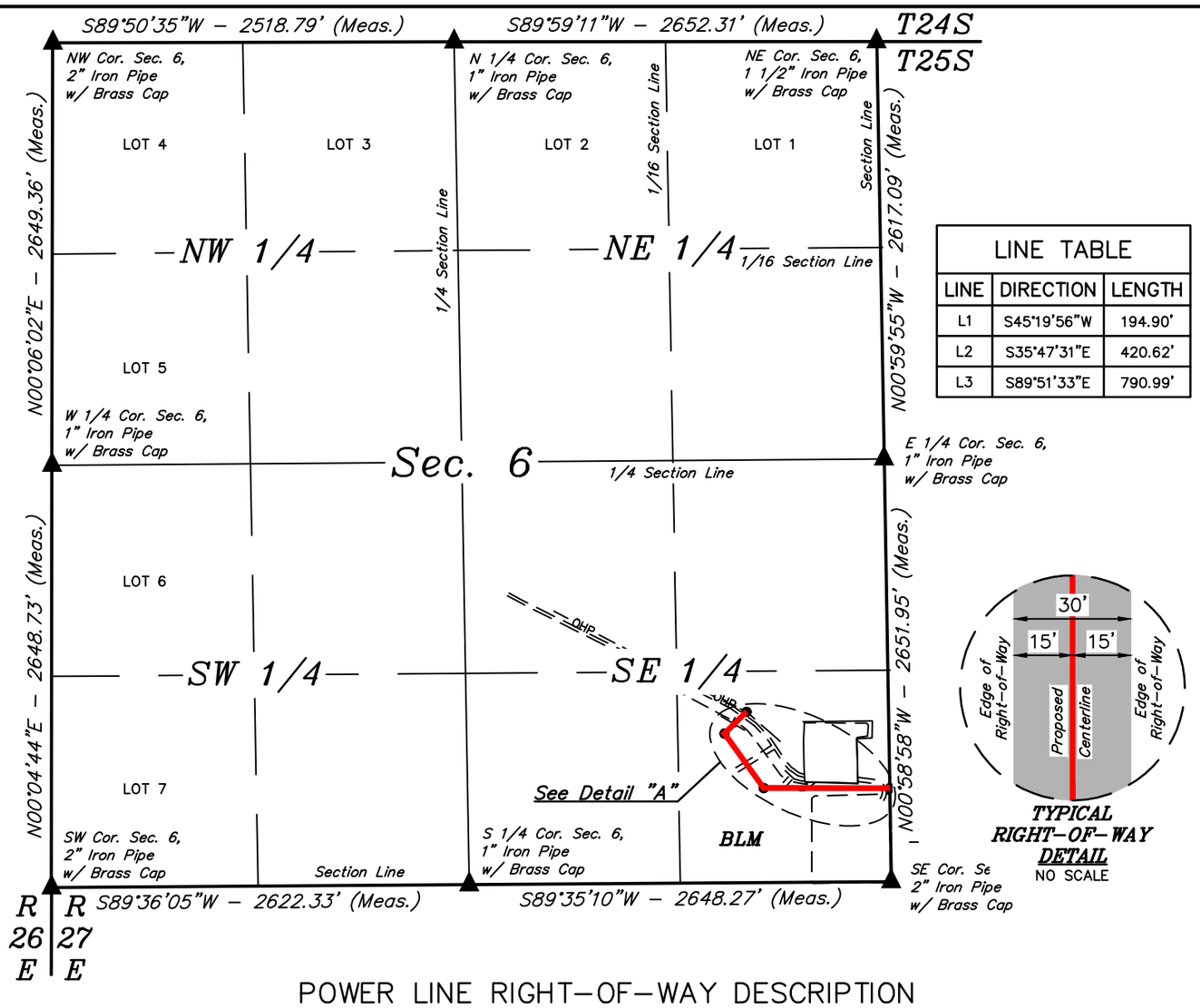
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

CIMAREX ENERGY CO.

WHITE CITY 8-17-20 FEDERAL COM E2W2
SECTIONS 5, 6 & 8, T25S, R27E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	R.C., M.D.	06-17-22	SCALE
DRAWN BY	T.J.S.	06-29-22	N/A

OVERALL POWER LINE



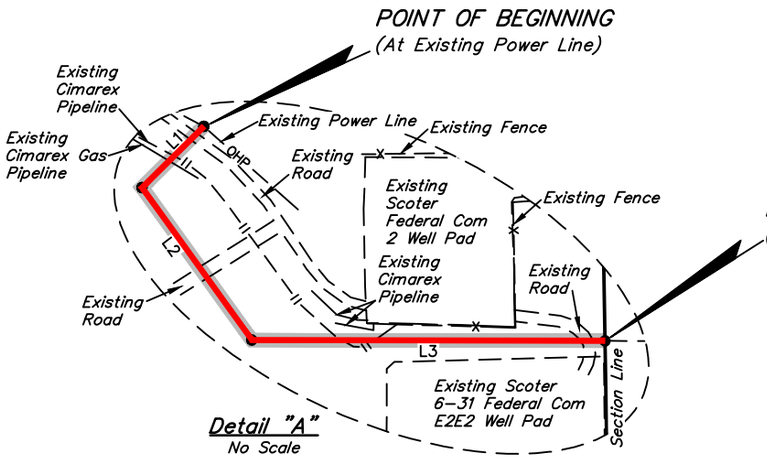
LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S45°19'56"W	194.90'
L2	S35°47'31"E	420.62'
L3	S89°51'33"E	790.99'

TYPICAL RIGHT-OF-WAY DETAIL
NO SCALE

POWER LINE RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE EAST 1/4 CORNER OF SECTION 6, T25S, R27E, N.M.P.M.; THENCE S00°58'48"E 2651.95' ALONG THE EAST LINE OF THE SE 1/4 OF SAID SECTION 6 TO THE SOUTHEAST CORNER OF SAID SECTION 6; THENCE N40°27'33"W 1399.90' TO A POINT IN THE SE 1/4 SE 1/4 OF SAID SECTION 6 AND THE POINT OF BEGINNING; THENCE S45°19'56"W 194.90'; THENCE S35°47'31"E 420.62'; THENCE S89°51'33"E 790.99' TO A POINT ON THE EAST LINE OF THE SE 1/4 SE 1/4 OF SAID SECTION 6 AND THE POINT OF TERMINATION, WHICH BEARS N00°58'58"W 585.09' FROM THE SOUTHEAST CORNER OF SAID SECTION 6. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.969 ACRES MORE OR LESS.



POINT OF BEGINNING BEARS N40°27'33"W 1399.90' FROM THE SOUTHEAST CORNER OF SECTION 6, T25S, R27E, N.M.P.M.

POINT OF TERMINATION BEARS N00°58'58"W 585.09 FROM THE SOUTHEAST CORNER OF SECTION 6, T25S, R27E, N.M.P.M.

CERTIFICATE
THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NEW MEXICO
23782
Paul Buchheit
06-29-22
PROFESSIONAL SURVEYOR

ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 6 (SE 1/4)	1406.51	85.24	0.969

▲ = SECTION CORNERS LOCATED.

1000' 500' 0' 1000'

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

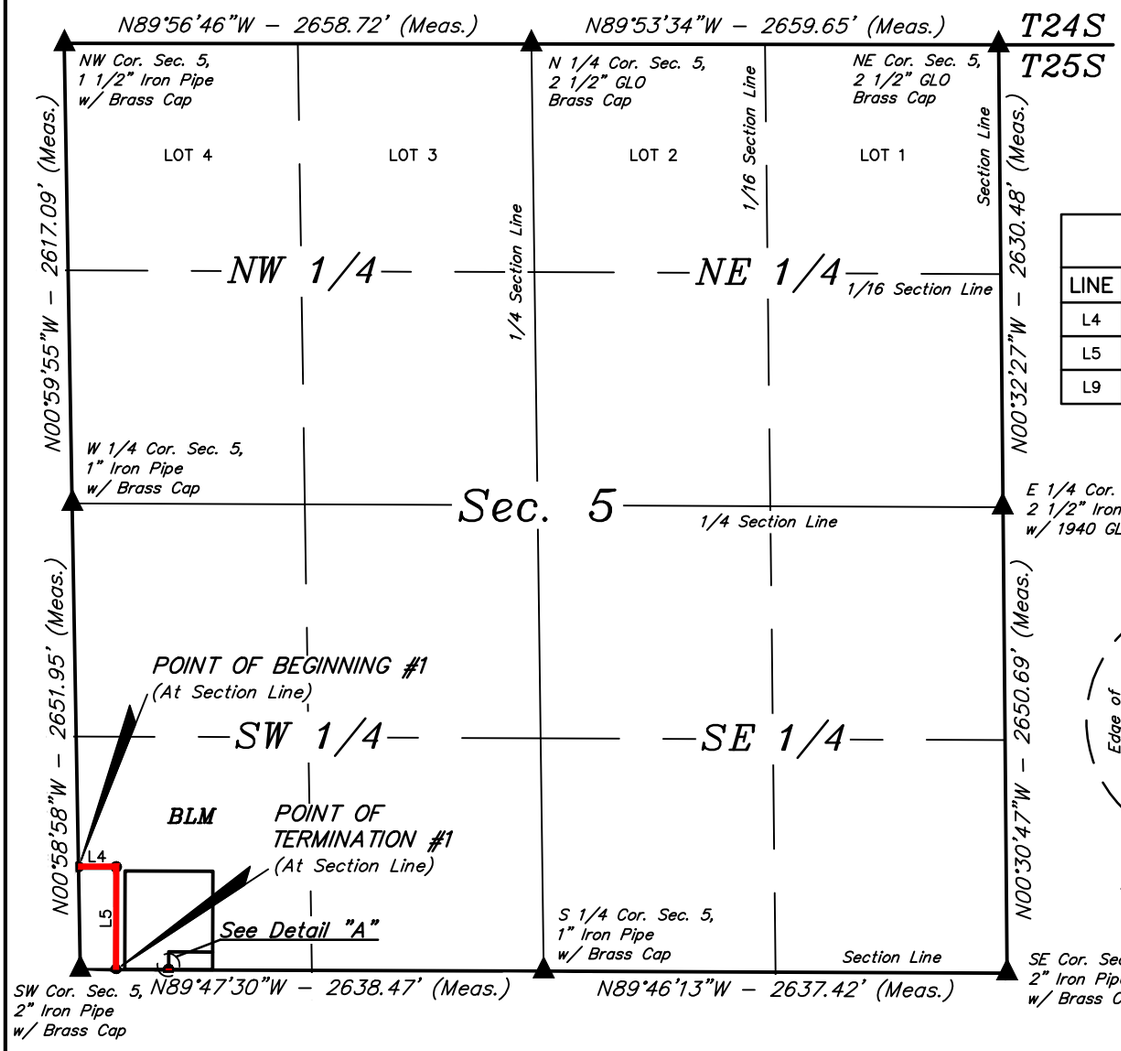
N

CIMAREX ENERGY CO.

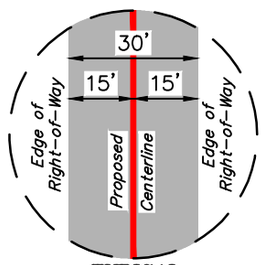
WHITE CITY 8-17-20 FEDERAL COM E2W2
ON BLM LANDS IN
SECTION 6, T25S, R27E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	R.C., M.D.	06-17-22	SCALE
DRAWN BY	T.J.S.	06-29-22	1" = 1000'
FILE	C-7368-A		
POWER LINE R-O-W			EXHIBIT I

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



LINE TABLE		
LINE	DIRECTION	LENGTH
L4	S89°51'33"E	215.18'
L5	S00°11'33"W	585.22'
L9	N00°12'24"E	2.67'



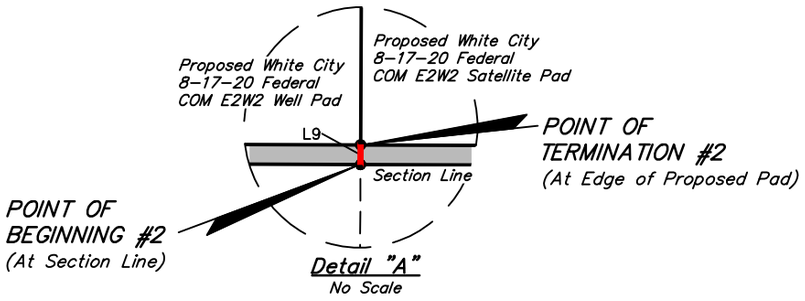
TYPICAL RIGHT-OF-WAY DETAIL
NO SCALE

POINT OF BEGINNING #1 BEARS N00°58'58"W 585.09' FROM THE SOUTHWEST CORNER OF SECTION 5, T25S, R27E, N.M.P.M.

POINT OF TERMINATION #1 BEARS S89°47'30"E 203.18' FROM THE SOUTHWEST CORNER OF SECTION 5, T25S, R27E, N.M.P.M.

POINT OF BEGINNING #2 BEARS S89°47'30"E 503.17' FROM THE SOUTHWEST CORNER OF SECTION 5, T25S, R27E, N.M.P.M.

POINT OF TERMINATION #2 BEARS N89°54'15"E 503.17' FROM THE SOUTHWEST CORNER OF SECTION 5, T25S, R27E, N.M.P.M.

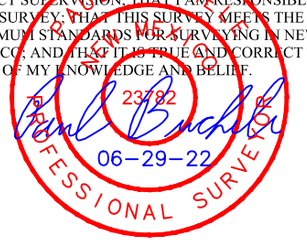


Detail "A"
No Scale

ACREAGE / LENGTH TABLE #1			
LOCATION	FEET	RODS	ACRES
SEC. 5 (SW 1/4)	800.04	48.49	0.551

ACREAGE / LENGTH TABLE #2			
LOCATION	FEET	RODS	ACRES
SEC. 5 (SW 1/4)	2.67	0.16	0.002

CERTIFICATE
THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



1000' 500' 0' 1000'

▲ = SECTION CORNERS LOCATED.

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

CIMAREX ENERGY CO.

WHITE CITY 8-17-20 FEDERAL COM E2W2 ON BLM LANDS IN SECTION 5, T25S, R27E, N.M.P.M. EDDY COUNTY, NEW MEXICO

SURVEYED BY	R.C., M.D.	06-17-22	SCALE
DRAWN BY	T.J.S.	06-29-22	1" = 1000'
FILE	C-7368-B1		
POWER LINE R-O-W			EXHIBIT I

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

POWER LINE #1 RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE WEST 1/4 CORNER OF SECTION 5, T25S, R27E, N.M.P.M.; THENCE S00°58'48"E 2651.95' ALONG THE WEST LINE OF THE SW 1/4 OF SAID SECTION 5 TO THE SOUTHWEST CORNER OF SAID SECTION 5; THENCE N00°58'58"W 585.09' ALONG THE WEST LINE OF THE SW 1/4 SW 1/4 OF SAID SECTION 5 TO THE POINT OF BEGINNING; THENCE S89°51'33"E 215.18'; THENCE S00°11'33"W 585.22' TO A POINT ON THE SOUTH LINE OF THE SW 1/4 SW 1/4 OF SAID SECTION 5 AND THE POINT OF TERMINATION, WHICH BEARS S89°47'30"E 203.18' FROM THE SOUTHWEST CORNER OF SAID SECTION 5. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.551 ACRES MORE OR LESS.

POWER LINE #2 RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE SOUTH 1/4 CORNER OF SECTION 5, T25S, R27E, N.M.P.M.; THENCE N89°47'30"W 2638.47' ALONG THE WEST LINE OF THE SW 1/4 OF SAID SECTION 5 TO THE SOUTHWEST CORNER OF SAID SECTION 5; THENCE S89°47'30"E 503.17' ALONG THE SOUTH LINE OF THE SW 1/4 SW 1/4 OF SAID SECTION 5 TO THE POINT OF BEGINNING; THENCE N00°12'24"E 2.67' TO A POINT IN THE SW 1/4 SW 1/4 OF SAID SECTION 5 AND THE POINT OF TERMINATION, WHICH BEARS N89°54'15"E 503.17' FROM THE SOUTHWEST CORNER OF SAID SECTION 5. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.002 ACRES MORE OR LESS.

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RONALD EIDSON 23782 PROFESSIONAL SURVEYOR

06-29-22

Sheet 2 of 2

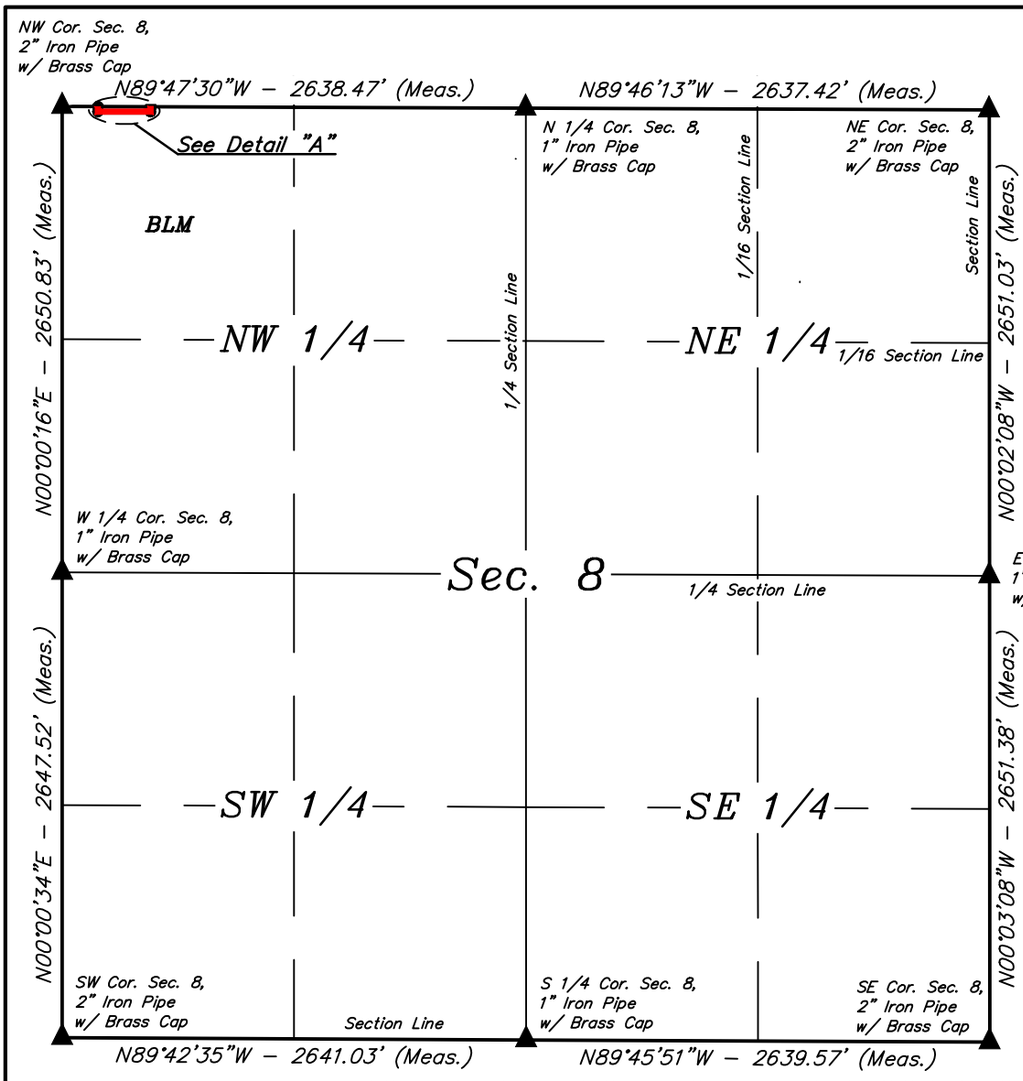
CIMAREX ENERGY CO.

WHITE CITY 8-17-20 FEDERAL COM E2W2
ON BLM LANDS IN
SECTION 5, T25S, R27E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

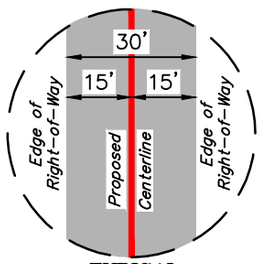
SURVEYED BY	R.C., M.D.	06-17-22	SCALE
DRAWN BY	T.J.S.	06-29-22	N/A
FILE	C-7368-B2		
POWER LINE R-O-W			EXHIBIT I

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



LINE TABLE		
LINE	DIRECTION	LENGTH
L6	S00°11'33"W	28.94'
L7	S89°58'04"E	299.98'
L8	N00°12'24"E	28.01'

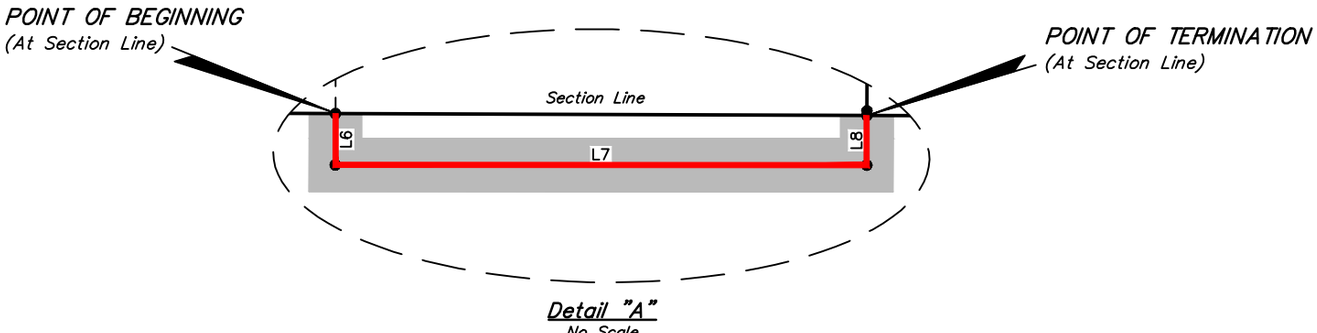


TYPICAL RIGHT-OF-WAY DETAIL
NO SCALE

POWER LINE RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE NORTH 1/4 CORNER OF SECTION 8, T25S, R27E, N.M.P.M.; THENCE N89°47'30"W 2638.47' ALONG THE NORTH LINE OF THE NW 1/4 OF SAID SECTION 8 TO THE NORTHWEST CORNER OF SAID SECTION 8; THENCE S89°47'30"E 203.18' ALONG THE NORTH LINE OF THE NW 1/4 NW 1/4 OF SAID SECTION 8 TO THE POINT OF BEGINNING; THENCE S00°11'33"W 28.94'; THENCE S89°58'04"E 299.98'; THENCE N00°12'24"E 28.01' TO A POINT ON THE NORTH LINE OF THE NW 1/4 NW 1/4 OF SAID SECTION 8 AND THE POINT OF TERMINATION, WHICH BEARS S89°47'30"E 503.17' FROM THE NORTHWEST CORNER OF SAID SECTION 8. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.246 ACRES MORE OR LESS.



Detail "A"
No Scale

POINT OF BEGINNING BEARS S89°47'30"E 203.18' FROM THE NORTHWEST CORNER OF SECTION 8, T25S, R27E, N.M.P.M.

POINT OF TERMINATION BEARS S89°47'30"E 503.17' FROM THE NORTHWEST CORNER OF SECTION 8, T25S, R27E, N.M.P.M.

ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 8 (NW 1/4)	356.93	21.63	0.246

▲ = SECTION CORNERS LOCATED.

1000' 500' 0' 1000'

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NEW MEXICO 23782 PROFESSIONAL SURVEYOR
06-29-22

NOTES:
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)

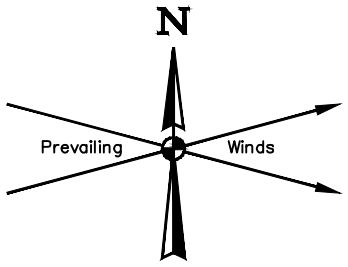
N

CIMAREX ENERGY CO.

WHITE CITY 8-17-20 FEDERAL COM E2W2 ON BLM LANDS IN SECTION 8, T25S, R27E, N.M.P.M. EDDY COUNTY, NEW MEXICO

SURVEYED BY	R.C., M.D.	06-17-22	SCALE
DRAWN BY	T.J.S.	06-29-22	1" = 1000'
FILE	C-7368-C		
POWER LINE R-O-W			EXHIBIT I

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



Proposed Access Road

Topsoil Stockpile

14H 13H 12H 11H

10H 9H 8H

7H 6H 5H 4H

2H 1H

Satellite Pad

Section 5

Section 8

Section Line

800' X 860' Archaeological Survey Boundary

REV: 3 06-28-22 D.J.S. (PAD MOVE)

NOTES:

- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

CIMAREX ENERGY CO.

WHITE CITY 8-17-20 FEDERAL COM E2W2
283' FSL 509' FWL (APPROX. CENTER OF PAD)
SW 1/4 SW 1/4, SECTION 5, T25S, R27E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	R.C., M.D.	06-17-22	SCALE
DRAWN BY	D.J.S.	06-30-21	1" = 120'
ARCHAEOLOGICAL SURVEY BOUNDARY			EXHIBIT L

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

AFMSS

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

PWD Data Report

03/07/2024

APD ID: 10400079522 **Submission Date:** 09/23/2021

Operator Name: CIMAREX ENERGY COMPANY

Well Name: WHITE CITY 8-17-20 FEDERAL COM **Well Number:** 1H

Well Type: OIL WELL **Well Work Type:** Drill

Section 1 - General

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

Section 2 - Lined

Would you like to utilize Lined Pit PWD options? N

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

Pit liner description:

Pit liner manufacturers

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule

Lined pit reclamation description:

Lined pit reclamation

Leak detection system description:

Leak detection system

Operator Name: CIMAREX ENERGY COMPANY

Well Name: WHITE CITY 8-17-20 FEDERAL COM **Well Number:** 1H

Lined pit Monitor description:

Lined pit Monitor

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information

Section 3 - Unlined

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres): **PWD surface owner:**

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule

Unlined pit reclamation description:

Unlined pit reclamation

Unlined pit Monitor description:

Unlined pit Monitor

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

Beneficial use user

Estimated depth of the shallowest aquifer (feet):

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

TDS lab results:

Geologic and hydrologic

State

Unlined Produced Water Pit Estimated

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

Operator Name: CIMAREX ENERGY COMPANY

Well Name: WHITE CITY 8-17-20 FEDERAL COM **Well Number:** 1H

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information

Section 4 -

Would you like to utilize Injection PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number: **Injection well name:**

Assigned injection well API number? **Injection well API number:**

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection

Underground Injection Control (UIC) Permit?

UIC Permit

Section 5 - Surface

Would you like to utilize Surface Discharge PWD options? N

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 -

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Other PWD discharge volume (bbl/day):

Operator Name: CIMAREX ENERGY COMPANY

Well Name: WHITE CITY 8-17-20 FEDERAL COM **Well Number:** 1H

Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements

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

Bond Info Data
03/07/2024

APD ID: 10400079522
Submission Date: 09/23/2021
Operator Name: CIMAREX ENERGY COMPANY
Well Name: WHITE CITY 8-17-20 FEDERAL COM
Well Number: 1H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes
Show Final Text

Bond

Federal/Indian APD: FED

BLM Bond number: NMB001188

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

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 322027

CONDITIONS

Operator:	OGRID:
CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	215099
	Action Number: 322027
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	3/27/2024
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	3/27/2024
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	3/27/2024
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	3/27/2024
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	3/27/2024
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	3/27/2024
ward.rikala	This well can not be produced until the well name is changed per proper naming convention.	3/27/2024