AFMSS

U.S. Department of the Interior
Bureau of Land Management

Application for Permit to Drill

APD Package Report

Date Printed:

APD ID:	Well Status:
APD Received Date:	Well Name:
Operator:	Well Number:

APD Package Report Contents

- Form 3160-3

- Operator Certification Report

- Application Report
- Application Attachments
  -- Well Plat: 2 file(s)

- Drilling Plan Report
- Drilling Plan Attachments
  -- Blowout Prevention Choke Diagram Attachment: 1 file(s)
  -- Blowout Prevention BOP Diagram Attachment: 1 file(s)
  -- Casing Design Assumptions and Worksheet(s): 6 file(s)
  -- Hydrogen sulfide drilling operations plan: 1 file(s)
  -- Proposed horizontal/directional/multi-lateral plan submission: 1 file(s)
  -- Other Facets: 5 file(s)
  -- Other Variances: 2 file(s)

- SUPO Report
- SUPO Attachments
  -- Existing Road Map: 1 file(s)
  -- New Road Map: 1 file(s)
  -- New road access plan attachment: 1 file(s)
  -- Attach Well map: 2 file(s)
  -- Production Facilities map: 2 file(s)
  -- Water source and transportation map: 1 file(s)
  -- Construction Materials source location attachment: 1 file(s)
  -- Well Site Layout Diagram: 1 file(s)
  -- Recontouring attachment: 1 file(s)
  -- Other SUPO Attachment: 1 file(s)

- PWD Report
- PWD Attachments

-- None

- Bond Report
- Bond Attachments
  -- None

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.
[318028]

2. Name of Operator
[372165]

9. API Well No. **30-025-50268**

3a. Address

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

10. Field and Pool, or Exploratory **[96434]**

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.

NGMP Rec 05/25/2022

KZ
06/23/2022

SL

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 12/21/2021

INSTRUCTIONS

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

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

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

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

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

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

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

NOTICES

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

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

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service wen or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record win be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

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

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

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

Approval Date: 12/21/2021

Additional Operator Remarks

Location of Well

0. SHL: SENE / 2189 FNL / 1070 FEL / TWSP: 24S / RANGE: 34E / SECTION: 27 / LAT: 32.189763 / LONG: -103.45274 (TVD: 0 feet, MD: 0 feet)

PPP: SENE / 2548 FNL / 330 FEL / TWSP: 24S / RANGE: 34E / SECTION: 27 / LAT: 32.188776 / LONG: -103.450347 (TVD: 10390 feet, MD: 10767 feet)

BHL: NENE / 100 FNL / 330 FEL / TWSP: 24S / RANGE: 34E / SECTION: 22 / LAT: 32.210004 / LONG: -103.450344 (TVD: 10390 feet, MD: 17532 feet)

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:	Centennial Resource Production, LLC
LEASE NO.:	NMNM016139
COUNTY:	Lea County, NM

Wells:

Solomon Federal Com 505H
Surface Hole Location: 2339' FNL & 1130' FEL, Section 27, T. 24 S., R. 34 E.
Bottom Hole Location: 100' FNL & 1870' FEL, Section 22, T. 24 S, R 34 E.

Sheba Federal Com 107H
Surface Hole Location: 2039' FNL & 1130' FEL, Section 27, T. 24 S., R. 34 E.
Bottom Hole Location: 100' FNL & 990' FEL, Section 22, T. 24 S, R 34 E.

Sheba Federal Com 108H
Surface Hole Location: 2039' FNL & 1100' FEL, Section 27, T. 24 S., R. 34 E.
Bottom Hole Location: 100' FNL & 330' FEL, Section 22, T. 24 S, R 34 E.

Sheba Federal Com 305H
Surface Hole Location: 2189' FNL & 1130' FEL, Section 27, T. 24 S., R. 34 E.
Bottom Hole Location: 100' FNL & 1254' FEL, Section 22, T. 24 S, R 34 E.

Sheba Federal Com 306H
Surface Hole Location: 2189' FNL & 1070' FEL, Section 27, T. 24 S., R. 34 E.
Bottom Hole Location: 100' FNL & 330' FEL, Section 22, T. 24 S, R 34 E.

Sheba Federal Com 405H
Surface Hole Location: 2189' FNL & 1100' FEL, Section 27, T. 24 S., R. 34 E.
Bottom Hole Location: 100' FNL & 792' FEL, Section 22, T. 24 S, R 34 E.

Sheba Federal Com 506H
Surface Hole Location: 2339' FNL & 1100' FEL, Section 27, T. 24 S., R. 34 E.
Bottom Hole Location: 100' FNL & 1100' FEL, Section 22, T. 24 S, R 34 E.

Sheba Federal Com 507H
Surface Hole Location: 2339' FNL & 1070' FEL, Section 27, T. 24 S., R. 34 E.
Bottom Hole Location: 100' FNL & 330' FEL, Section 22, T. 24 S, R 34 E.

Approval Date: 12/21/2021

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

I. GENERAL PROVISIONS

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

II. PERMIT EXPIRATION

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

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural 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.

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.

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

Range:

Livestock Watering Requirement
Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.

Lesser Prairie Chicken:
Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken:
Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am

restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

Timing Limitation Exceptions:
The Carlsbad Field Office will publish an annual map of where the LPC timing and noise stipulations and conditions of approval (Limitations) will apply for the identified year (between March 1 and June 15) based on the latest survey information. The LPC Timing Area map will identify areas which are Habitat Areas (HA), Isolated Population Area (IPA), and Primary Population Area (PPA). The LPC Timing Area map will also have an area in red crosshatch. The red crosshatch area is the only area where an operator is required to submit a request for exception to the LPC Limitations. If an operator is operating outside the red crosshatch area, the LPC Limitations do not apply for that year and an exception to LPC Limitations is not required.

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. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

VRM IV:

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

V. CONSTRUCTION

A. NOTIFICATION

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

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

B. TOPSOIL

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

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

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

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

D. FEDERAL MINERAL MATERIALS PIT

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

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

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

F. EXCLOSURE FENCING (CELLARS & PITS)

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

G. ON LEASE ACCESS ROADS

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

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

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

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

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

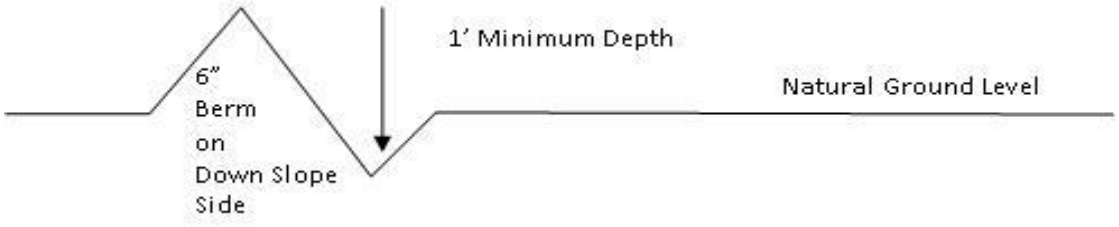
Ditching
Ditching shall be required on both sides of the road.

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

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

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

Cross Section of a Typical Lead-off Ditch



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

Formula for Spacing Interval of Lead-off Ditches

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

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

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

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

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

Approval Date: 12/21/2021

Construction Steps

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

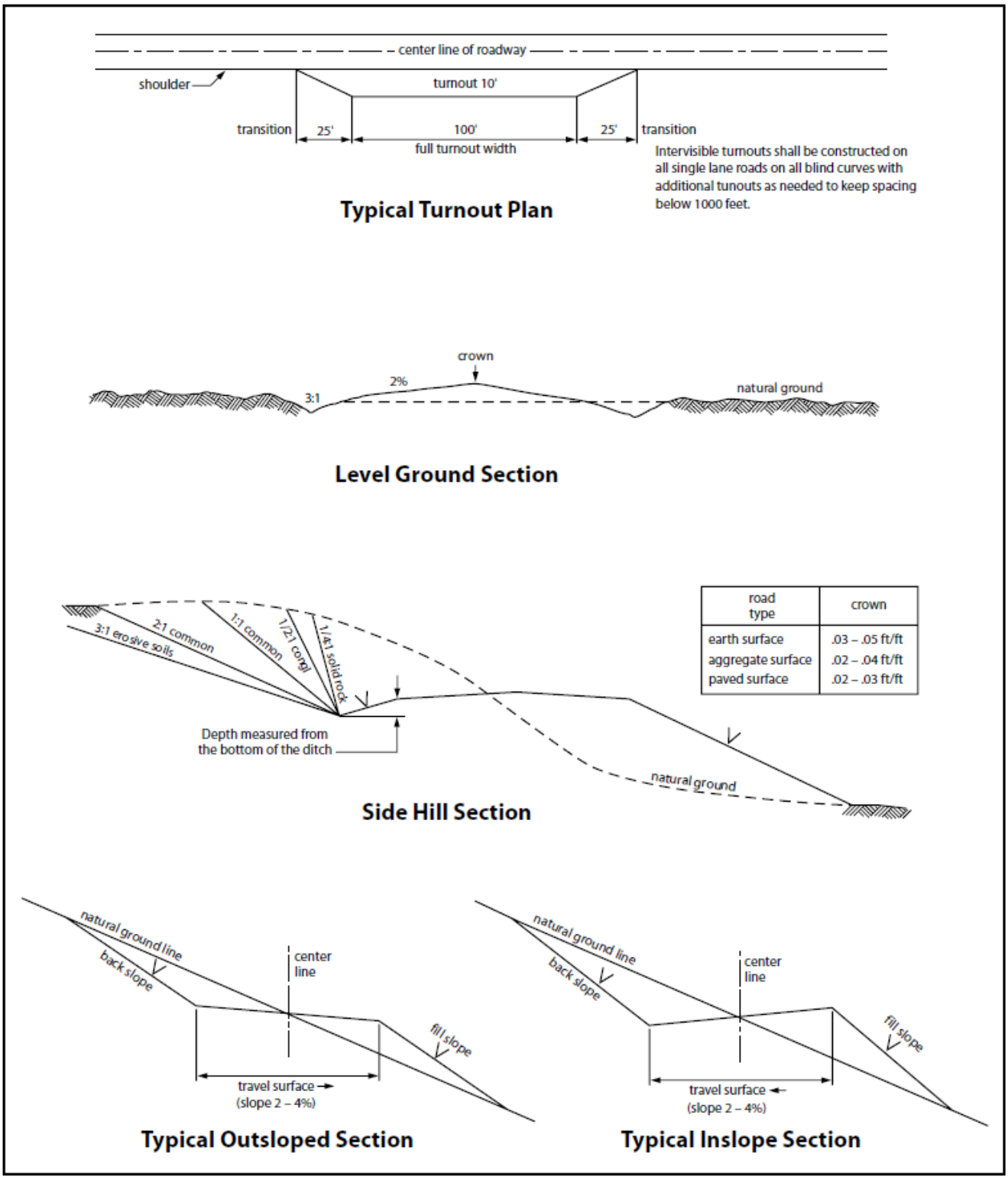


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

Approval Date: 12/21/2021

VI. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities
Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)
Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

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

Open-Vent Exhaust Stack Exclosures
The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone*.) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

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

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

VII. 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).

VIII. 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.

Seed Mixture 2, for Sandy Sites

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

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

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

Species	lb/acre
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
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: 12/21/2021

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**Centennial Resources**
LEASE NO.:	**NMNM16139**
LOCATION:	Section 27, T.24 S., R.34 E., NMPM
COUNTY:	Lea County, New Mexico

WELL NAME & NO.:	Sheba Fed Com 306H
SURFACE HOLE FOOTAGE:	2189'/N & 1070'/E
BOTTOM HOLE FOOTAGE	100'/N & 330'/E

COA

H2S	○ Yes	◉ No	
Potash	◉ None	○ Secretary	○ R-111-P
Cave/Karst Potential	◉ Low	○ Medium	○ High
Cave/Karst Potential	○ Critical		
Variance	○ None	◉ Flex Hose	○ Other
Wellhead	○ Conventional	◉ Multibowl	○ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP
Other	☑ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☑ COM	☐ Unit

A. HYDROGEN SULFIDE

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

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **1190** feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.

    a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
    b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8**

Approval Date: 12/21/2021

hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)

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

Intermediate casing must be kept 1/3rd fluid filled to meet BLM minimum collapse requirement.

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

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

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

   a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
   b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
   c. Manufacturer representative shall install the test plug for the initial BOP test.
   d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
   e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

Approval Date: 12/21/2021

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.
- 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
Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

☒ Lea County
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

a. Operator is approve to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).

b. When the operator proposes to set surface casing with Spudder Rig
   - Notify the BLM when moving in and removing the Spudder Rig.
   - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
   - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.

2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

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

A. CASING

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

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

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

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

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

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

7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

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

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

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

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

    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
c. Manufacturer representative shall install the test plug for the initial BOP test.
d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).

c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall

have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

e. The results of the test shall be reported to the appropriate BLM office.

f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.
ZS121621

AFMSS

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

Operator Certification Data Report

03/02/2022

AFMSS

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

Application Data Report

03/02/2022

APD ID: 10400057754 **Submission Date:** 06/05/2020

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: SHEBA FEDERAL COM **Well Number:** 306H

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

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - General

APD ID: 10400057754 **Tie to previous NOS?** N **Submission Date:** 06/05/2020

BLM Office: Carlsbad **User:** KANICIA SCHLICHTING **Title:** Sr. Regulatory Analyst

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

Lease number: NMNM016139 **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? NO **APD Operator:** CENTENNIAL RESOURCE PRODUCTION LLC

Operator letter of designation:

Operator Info

Operator Organization Name: CENTENNIAL RESOURCE PRODUCTION LLC

Operator Address: 1001 17th Street, Suite 1800

Zip: 80202

Operator PO Box:

Operator City: Denver **State:** CO

Operator Phone: (720)499-1400

Operator Internet Address:

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: SHEBA FEDERAL COM **Well Number:** 306H **Well API Number:**

Field/Pool or Exploratory? Field and Pool **Field Name:** 1st BONE SPRING **Pool Name:** RED HILLS BONE SPRING, NORTH

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

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: SHEBA FEDERAL COM **Well Number:** 306H

Is the proposed well in an area containing other mineral resources? 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:** Solomon/Sheba Federal **Number:** 1

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: 20 Miles **Distance to nearest well:** 30 FT **Distance to lease line:** 1070 FT

Reservoir well spacing assigned acres Measurement: 240 Acres

Well plat: Sheba_Federal_Com_306H_Lease_C102_20200605102635.pdf

Sheba_Federal_Com_306H_C102_20200605102636.pdf

Well work start Date: 03/15/2021 **Duration:** 25 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 **Vertical Datum:** NAVD88

Survey number: 23782 **Reference Datum:** GROUND LEVEL

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 lease?
SHL Leg #1	2189	FNL	1070	FEL	24S	34E	27	Aliquot SENE	32.189763	-103.45274	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 16139	3462	0	0	Y
KOP Leg #1	2548	FNL	330	FEL	24S	34E	27	Aliquot SENE	32.189763	-103.45274	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 16139	-6355	9867	9817	Y

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: SHEBA FEDERAL COM **Well Number:** 306H

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 lease?
PPP Leg #1-1	2548	FNL	330	FEL	24S	34E	27	Aliquot SENE	32.188776	-103.450347	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 16139	-6928	10767	10390	Y
EXIT Leg #1	100	FNL	330	FEL	24S	34E	22	Aliquot NENE	32.210004	-103.450344	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 117125	-6928	17532	10390	Y
BHL Leg #1	100	FNL	330	FEL	24S	34E	22	Aliquot NENE	32.210004	-103.450344	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 117125	-6928	17532	10390	Y

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
	96434	Red Hills; Bone Spring, North

[4] Property Code	[5] Property Name	[6] Well Number
	SHEBA FEDERAL COM	306H

[7] OGRID No.	[8] Operator Name	[9] Elevation
372165	CENTENNIAL RESOURCE PRODUCTION, LLC	3461.7'

[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
H	27	24S	34E		2189	NORTH	1070	EAST	LEA

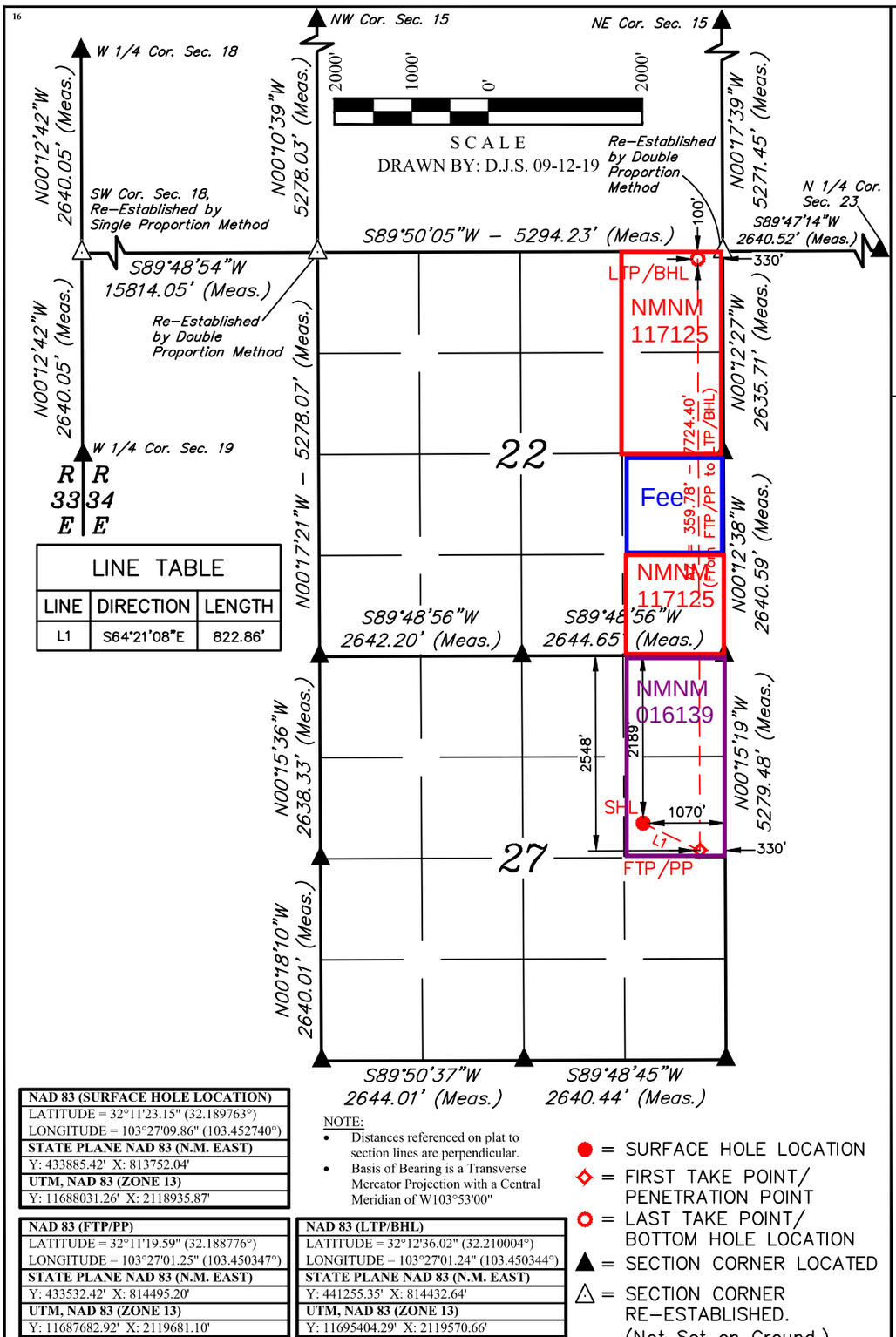
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	22	24S	34E		100	NORTH	330	EAST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
240			

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.

[16]



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S64°21'08"E	822.86'

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°11'23.15" (32.189763°)
LONGITUDE = 103°27'09.86" (103.452740°)
STATE PLANE NAD 83 (N.M. EAST)
Y: 433885.42' X: 813752.04'
UTM, NAD 83 (ZONE 13)
Y: 11688031.26' X: 2118935.87'

NAD 83 (FTP/PP)
LATITUDE = 32°11'19.59" (32.188776°)
LONGITUDE = 103°27'01.25" (103.450347°)
STATE PLANE NAD 83 (N.M. EAST)
Y: 433532.42' X: 814495.20'
UTM, NAD 83 (ZONE 13)
Y: 11687682.92' X: 2119681.10'

NAD 83 (LTP/BHL)
LATITUDE = 32°12'36.02" (32.210004°)
LONGITUDE = 103°27'01.24" (103.450344°)
STATE PLANE NAD 83 (N.M. EAST)
Y: 441255.35' X: 814432.64'
UTM, NAD 83 (ZONE 13)
Y: 11695404.29' X: 2119570.66'

NOTE:
- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearing is a Transverse Mercator Projection with a Central Meridian of W103°53'00"

● = SURFACE HOLE LOCATION
◇ = FIRST TAKE POINT/ PENETRATION POINT
○ = LAST TAKE POINT/ BOTTOM HOLE LOCATION
▲ = SECTION CORNER LOCATED
△ = SECTION CORNER RE-ESTABLISHED. (Not Set on Ground.)

[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 6/4/2020 Date

Kanicia Schlichting
Printed Name

kanicia.schlichting@cdevinc.com
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.

August 23, 2019
Date of Survey

Signature and Seal of Professional Surveyor:

PAUL BUCHELE NEW MEXICO 23782 09-13-19 PROFESSIONAL SURVEYOR

Certificate Number:

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
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UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
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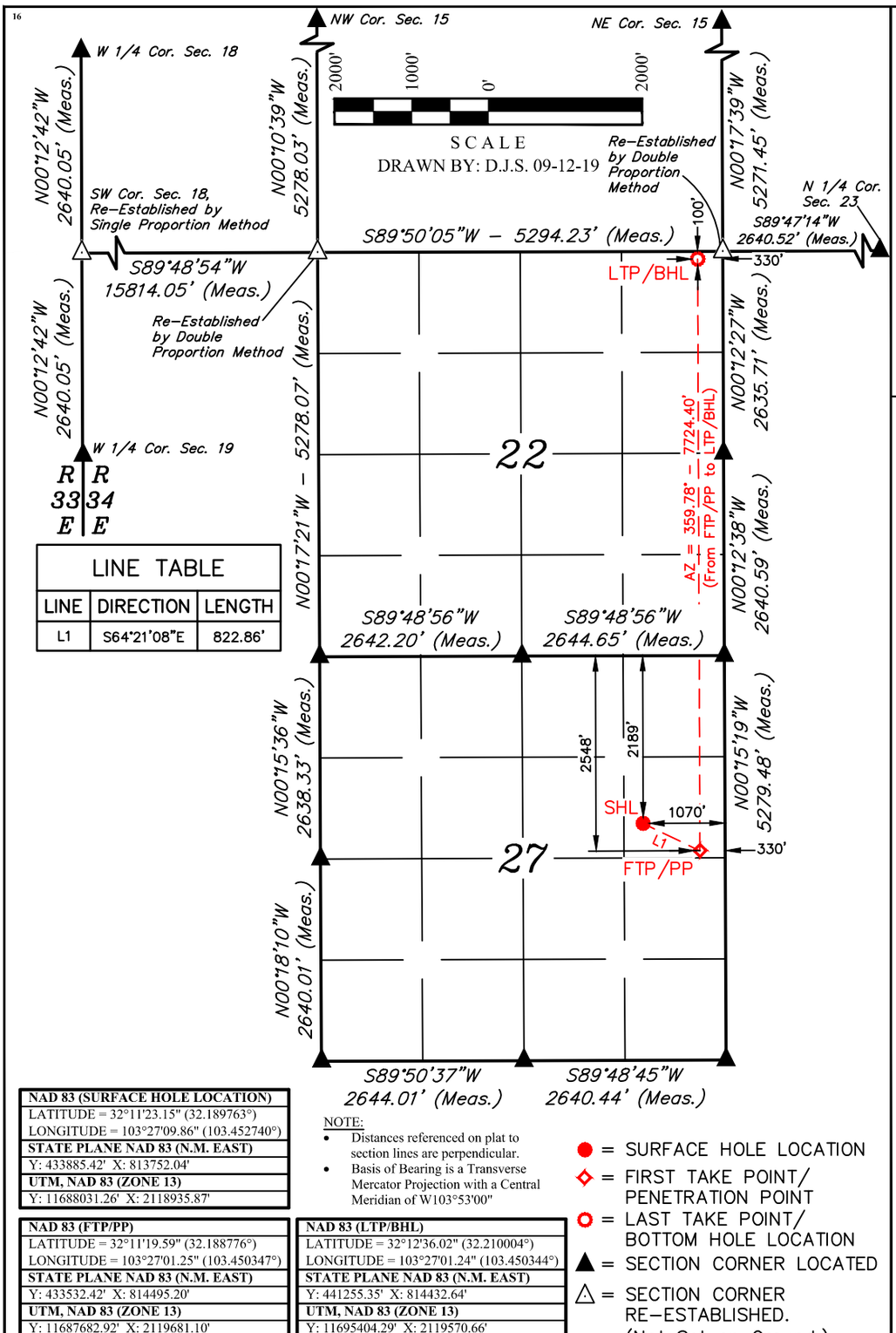

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Y: 433885.42' X: 813752.04'
UTM, NAD 83 (ZONE 13)
Y: 11688031.26' X: 2118935.87'

NAD 83 (FTP/PP)
LATITUDE = 32°11'19.59" (32.188776°)
LONGITUDE = 103°27'01.25" (103.450347°)
STATE PLANE NAD 83 (N.M. EAST)
Y: 433532.42' X: 814495.20'
UTM, NAD 83 (ZONE 13)
Y: 11687682.92' X: 2119681.10'

NAD 83 (LTP/BHL)
LATITUDE = 32°12'36.02" (32.210004°)
LONGITUDE = 103°27'01.24" (103.450344°)
STATE PLANE NAD 83 (N.M. EAST)
Y: 441255.35' X: 814432.64'
UTM, NAD 83 (ZONE 13)
Y: 11695404.29' X: 2119570.66'

NOTE:
- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearing is a Transverse Mercator Projection with a Central Meridian of W103°53'00"

● = SURFACE HOLE LOCATION
◇ = FIRST TAKE POINT/ PENETRATION POINT
○ = LAST TAKE POINT/ BOTTOM HOLE LOCATION
▲ = SECTION CORNER LOCATED
△ = SECTION CORNER RE-ESTABLISHED. (Not Set on Ground.)

[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 6/4/2020 Date

Kanicia Schlichting
Printed Name

kanicia.schlichting@cdevinc.com
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.

August 23, 2019
Date of Survey

Signature and Seal of Professional Surveyor:

PAUL BUCHELE NEW MEXICO 23782 09-13-19 PROFESSIONAL SURVEYOR

Certificate Number:

AFMSS

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

Drilling Plan Data Report

03/02/2022

APD ID: 10400057754 **Submission Date:** 06/05/2020

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: SHEBA FEDERAL COM **Well Number:** 306H

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 Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
753109	RUSTLER	3524	1150	1150	SANDSTONE	NONE	N
753110	BELL CANYON	-1976	5500	5500	SANDSTONE	NATURAL GAS, OIL	N
753111	CHERRY CANYON	-2876	6400	6400	SANDSTONE	NATURAL GAS, OIL	N
753112	BRUSHY CANYON	-4272	7796	7796	SANDSTONE	NATURAL GAS, OIL	N
753113	BONE SPRING LIME	-5731	9255	9255	OTHER : Carbonate	NATURAL GAS, OIL	N
753114	AVALON SAND	-5772	9296	9296	SHALE	CO2, NATURAL GAS, OIL	N
753115	BONE SPRING 1ST	-6757	10281	10281	SANDSTONE	NATURAL GAS, OIL	Y
753116	BONE SPRING 2ND	-6976	10500	10500	OTHER, SHALE : Carbonate	NATURAL GAS, OIL	N

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M **Rating Depth:** 10390

Equipment: The BOP and related equipment will meet or exceed the requirements of a 5M-psi system as set forth in On Shore Order No. 2. See attached BOP Schematic. A. Casinghead: 13 5/8 5,000 psi SOW x 13 5,000 psi WP Intermediate Spool: 13 5,000 psi WP x 11 5,000 psi WP Tubinghead: 11 5,000 psi WP x 7 1/16" 15,000 psi WP B. Minimum Specified Pressure Control Equipment Annular preventer One Pipe ram, One blind ram Drilling spool, or blowout preventer with 2 side outlets. Choke side will be a 3-inch minimum diameter, kill line shall be at least 2-inch diameter 3 inch diameter choke line 2 3 inch choke line valves 2 inch kill line 2 chokes with 1 remotely controlled from rig floor (see Figure 2) 2 2 inch kill line valves and a check valve Upper kelly cock valve with handle available When the expected pressures approach working pressure of the system, 1 remote kill line tested to stack pressure (which shall run to the outer edge of the substructure and be unobstructed) Lower kelly cock valve with handle available Safety valve(s) and subs to fit all drill string connections in use Inside BOP or float sub available Pressure gauge on choke manifold All BOPE connections subjected to well pressure shall be flanged, welded, or clamped Fill-up line above the uppermost preventer. C. Auxiliary Equipment Audio and visual mud monitoring equipment shall be placed to detect volume changes indicating loss or gain of circulating fluid volume. (OOS 1, III.C.2) Gas Buster will be used below intermediate casing setting depth. Upper and lower kelly cocks with handles, safety valve and subs to fit all drill string connections and a pressure gauge installed on choke manifold.

Requesting Variance? YES

Variance request: Centennial Resource Production, LLC hereby requests to use a flex hose on the choke manifold for this well. Please see attached multi bowl procedure.

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: SHEBA FEDERAL COM **Well Number:** 306H

Testing Procedure: The BOP test shall be performed before drilling out of the surface casing shoe and will occur at a minimum: a. when initially installed b. whenever any seal subject to test pressure is broken c. following related repairs d. at 30 day intervals e. checked daily as to mechanical operating conditions. The ram type preventer(s) will be tested using a test plug to 250 psi (low) and 5,000 psi (high) (casinghead WP) with a test plug upon its installation onto the 13 surface casing. If a test plug is not used, the ram type preventer(s) shall be tested to 70% of the minimum internal yield pressure of the casing. The annular type preventer(s) shall be tested to 50% of its working pressure. Pressure will be maintained for at least 10 minutes or until provisions of the test are met, whichever is longer. A Sundry Notice (Form 3160 5), along with a copy of the BOP test report, shall be submitted to the local BLM office within 5 working days following the test. If the bleed line is connected into the buffer tank (header), all BOP equipment including the buffer tank and associated valves will be rated at the required BOP pressure. The BLM office will be provided with a minimum of four (4) hours notice of BOP testing to allow witnessing. The BOP Configuration, choke manifold layout, and accumulator system, will be in compliance with Onshore Order 2 for a 5,000 psi system. A remote accumulator will be used. Pressures, capacities, and specific placement and use of the manual and/or hydraulic controls, accumulator controls, bleed lines, etc., will be identified at the time of the BLM 'witnessed BOP test. Any remote controls will be capable of both opening and closing all preventers and shall be readily accessible

Choke Diagram Attachment:

HP_10M_Choke_Manifold_20200604094646.pdf

BOP Diagram Attachment:

HP_BOP_Schematic_CoFlex_Choke_10K_20200604094704.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	CONDUCTOR	26	20.0	NEW	API	N	0	120	0	120	3462	3342	120	H-40	94	OTHER - WELD						
2	SURFACE	17.5	13.375	NEW	API	N	0	1175	0	1175	3462	2287	1175	J-55	54.5	OTHER - BTC	1.95	26.76	DRY	13.32	DRY	13.32
3	INTERMEDIATE	12.25	9.625	NEW	API	N	0	5500	0	5500	3461	-2038	5500	J-55	40	LT&C	1.34	8.69	DRY	2.48	DRY	3.01
4	PRODUCTION	8.75	5.5	NEW	API	N	0	10767	0	10390	3461	-6928	10767	OTHER	23	OTHER - DQX	2.39	13.9	DRY	2.64	DRY	2.64
5	PRODUCTION	8.5	5.5	NEW	API	N	10767	17532	10390	10390	-6928	-6928	6765	OTHER	20	OTHER - DQX	2.39	13.9	DRY	2.64	DRY	2.64

Casing Attachments

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: SHEBA FEDERAL COM **Well Number:** 306H

Casing Attachments

Casing ID: 1 **String Type:** CONDUCTOR

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing ID: 2 **String Type:** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

CASING_ASSUMPTIONS_WORKSHEET_20200226070116.pdf

Casing ID: 3 **String Type:** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

CASING_ASSUMPTIONS_WORKSHEET_20200225145837.pdf

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: SHEBA FEDERAL COM **Well Number:** 306H

Casing Attachments

Casing ID: 4 **String Type:** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

CASING_ASSUMPTIONS_WORKSHEET_20200225150125.pdf

Technical_Data_Sheet_TMK_UP_DQX_5.5_x_23_T95_20200605110654.pdf

Casing ID: 5 **String Type:** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

CASING_ASSUMPTIONS_WORKSHEET_20200225150415.pdf

Technical_Data_Sheet_TMK_UP_DQX_5.5_x_23_T95_20200605110851.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead		0	0	0	0	0	0	0	0	0
CONDUCTOR	Lead		0	120	121	1.49	12.9	181		Grout	Bentonite 4% BWOC, Cellophane #sx, CaCl2 2% BWOC

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: SHEBA FEDERAL COM **Well Number:** 306H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	675	539	1.74	13.5	938	100	Class C Premium	Premium Gel Bentonite 4%, C-45 Econolite 0.25%, Phenoseal 0.25#/sk, CaCl 1%, Defoamer C-41P 0.75%
SURFACE	Tail		675	1175	518	1.34	14.8	695	100	Class C Premium	C-45 Econolite 0.10%, CaCl 1.0%
INTERMEDIATE	Lead		0	4750	1123	3.44	10.7	3864	150	TXI Lightweight	Salt 1.77/sk, C-45 Econolite 2.25%, STE 6.00%, Citric Acid 0.18%, C-19 0.10%, CSA-1000 0.20%, C-530P 0.30%, CTB-15 LCM 7#/sk, Gyp Seal 8#/sk
INTERMEDIATE	Tail		4750	5250	141	1.33	14.8	188	20	Class C Premium	C-45 Econolite 0.10%, Citric acid 0.05%, C503P 0.25%
PRODUCTION	Lead		0	9867	966	3.41	10.6	3295	30	TXI Lightweight	Salt 8.98#/sk, STE 6.00%, Citric acid 0.20%, CSA-1000 0.23%, C47B 0.10%, C-503P 0.30%
PRODUCTION	Tail		9867	17532	1792	1.24	14.2	2221	25	50:25:25 Class H: Poz: CPO18	Citric acid 0.03%, CSA-1000 0.05%, C47B 0.25%, C-503P 0.30%

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 quantities of mud materials will be on the well site at all times for the purpose of assuring well control and maintaining wellbore integrity. Surface interval will employ fresh water mud. The intermediate hole will utilize a diesel emulsified brine fluid to inhibit salt washout and prevent severe fluid losses. The production hole will employ oil base fluid to inhibit formation reactivity and of the appropriate density to maintain well control.

Describe the mud monitoring system utilized: Centrifuge separation system. Open tank monitoring with EDR will be used for drilling fluids and return volumes. Open tank monitoring will be used for cement and cuttings return volumes. Mud properties will be monitored at least every 24 hours using industry accepted mud check practices.

Circulating Medium Table

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: SHEBA FEDERAL COM **Well Number:** 306H

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	1175	OTHER : FW	8.6	9.5							
1175	5250	OTHER : Brine	9	10							
5250	17532	OTHER : Brine/OBM	8.8	10							

Section 6 - Test, Logging, Coring

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

Will utilize MWD/LWD (Gamma ray logging) from intermediate hole to TD of the well.

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

GAMMA RAY LOG,DIRECTIONAL SURVEY,

Coring operation description for the well:

N/A

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5403 **Anticipated Surface Pressure:** 3117

Anticipated Bottom Hole Temperature(F): 165

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

H2S_Plan_Sheba_Fed_Com_306H_20200605111417.pdf

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: SHEBA FEDERAL COM **Well Number:** 306H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

SHEBA_FEDERAL_COM_507H___SURVEY_REPORT_20200604160024.pdf

Other proposed operations facets description:

GCP is attached. GeoProg and WBD attached.

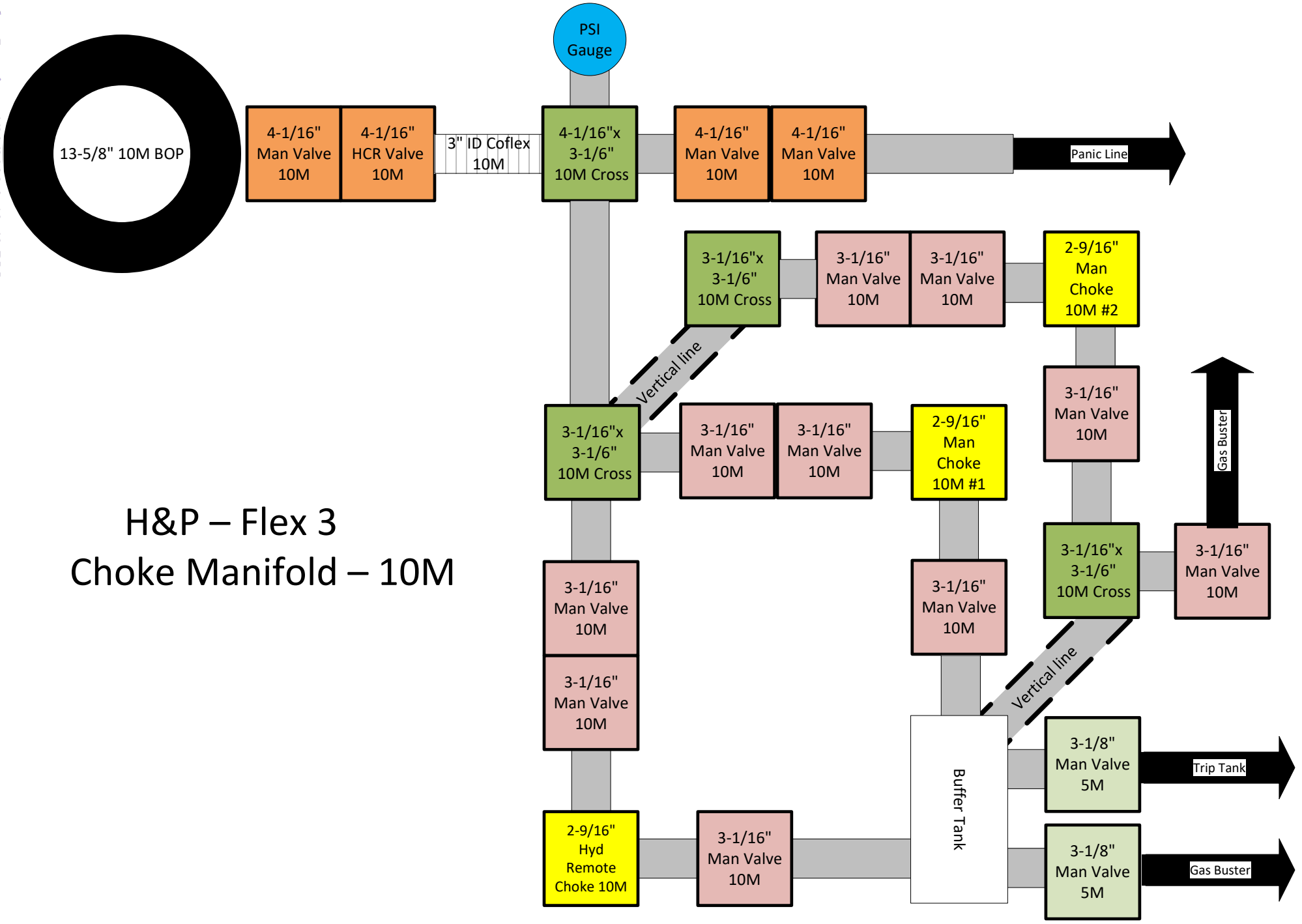
Other proposed operations facets attachment:

Sheba_Fed_Com_506H_507H_306H_GCP_20200604172439.pdf
CRD_Batch_Setting_Procedures_20200228113732.pdf
CDEV_Multi_Bowl_Procedure_Sheba_Fed_Com_306H_20200605111446.pdf
Seba_Fed_Com_306H_WBD__Proposed__20200826154525.pdf
GEOPROG_Sheeba_Federal_Com_306H_PRELIM_20200826154525.pdf

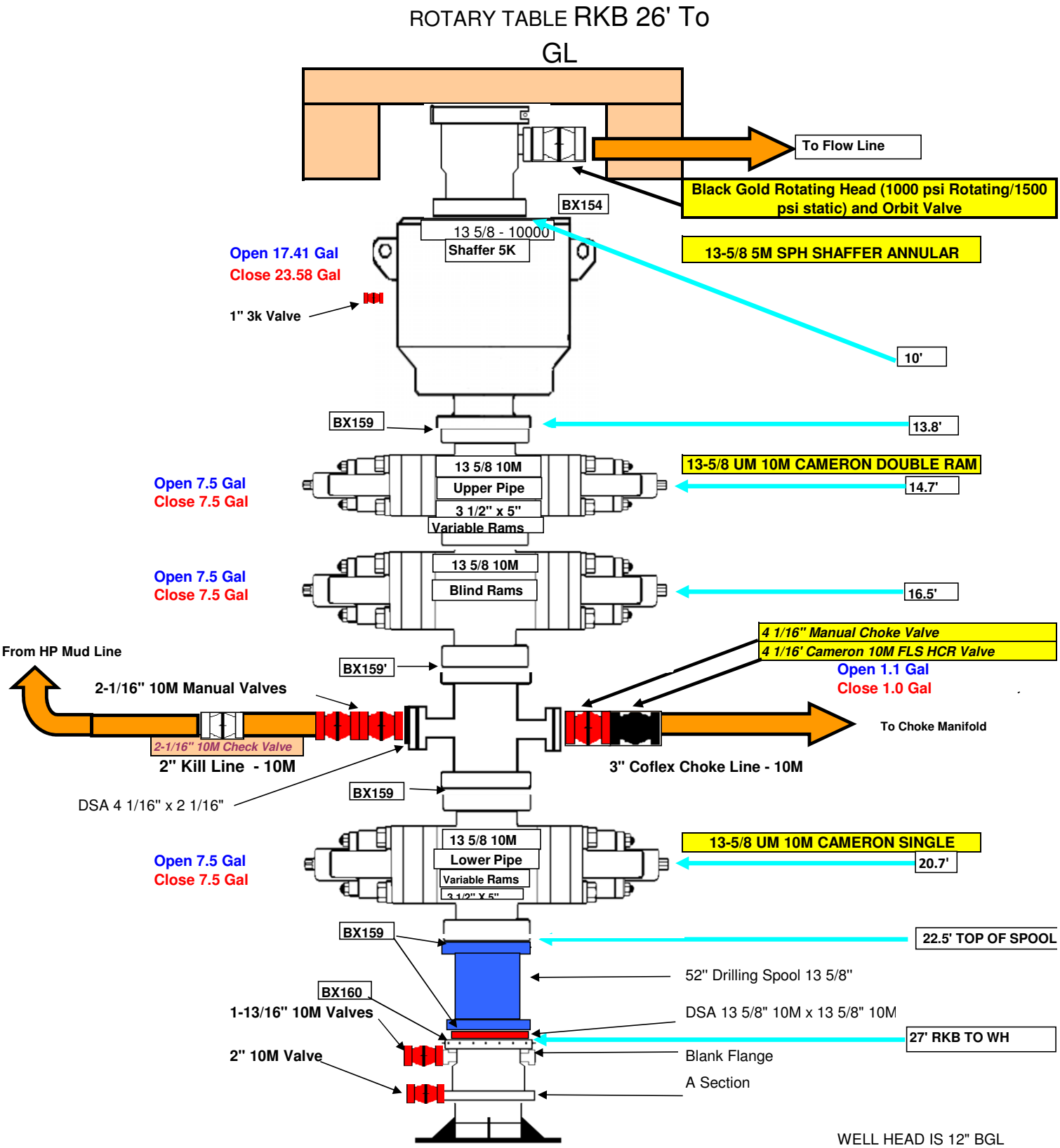
Other Variance attachment:

CDEV_Well_Control_Plan_Bonesprings_20200604113532.pdf
H_P_Flex_Hose_Specs_Continental_Hose_SN_67255_20200228112930.pdf

H&P – Flex 3
Choke Manifold – 10M



H&P-Flex3


ROTARY TABLE RKB 26' To GL
To Flow Line
Black Gold Rotating Head (1000 psi Rotating/1500 psi static) and Orbit Valve
BX154
13 5/8 - 10000
Shaffer 5K
13-5/8 5M SPH SHAFFER ANNULAR
Open 17.41 Gal
Close 23.58 Gal
1" 3k Valve
10'
BX159
13.8'
13 5/8 10M
Upper Pipe
3 1/2" x 5"
Variable Rams
13-5/8 UM 10M CAMERON DOUBLE RAM
14.7'
Open 7.5 Gal
Close 7.5 Gal
13 5/8 10M
Blind Rams
Open 7.5 Gal
Close 7.5 Gal
16.5'
4 1/16" Manual Choke Valve
4 1/16' Cameron 10M FLS HCR Valve
Open 1.1 Gal
Close 1.0 Gal
From HP Mud Line
BX159'
2-1/16" 10M Manual Valves
To Choke Manifold
2-1/16" 10M Check Valve
2" Kill Line - 10M
3" Coflex Choke Line - 10M
DSA 4 1/16" x 2 1/16"
BX159
13 5/8 10M
Lower Pipe
Variable Rams
13-5/8 UM 10M CAMERON SINGLE
20.7'
Open 7.5 Gal
Close 7.5 Gal
BX159
22.5' TOP OF SPOOL
52" Drilling Spool 13 5/8"
BX160
1-13/16" 10M Valves
DSA 13 5/8" 10M x 13 5/8" 10M
27' RKB TO WH
2" 10M Valve
Blank Flange
A Section
WELL HEAD IS 12" BGL

CASING ASSUMPTIONS WORKSHEET:

Centralizer Program:

Surface: - 3 welded bow spring centralizers, one on each of the bottom 3 joints, plus one on the shoe joint (4 minimum)
- No Cement baskets will be run

Production: - 1 welded bow spring centralizer on a stop ring 6' above float shoe
- 1 centralizer every other joint to the top of the tail cement
- 1 centralizer every 4 joints to 500' below the top of the lead cement
- The actual number and placement of centralizers will be determined from hole deviation and potential production zones. Centralizers will be run for maximum practical standoff and through all potential productive zones.

- All casing strings below the conductor shall be tested, prior to drilling out the casing shoe, to 0.22 psi/ft of casing string length or 1500 psi, whichever is greater, but not to exceed 70% of the internal yield pressure of the casing. If pressure declines more than 10 percent in 30 minutes, corrective action will be taken.

  No freshly hard banded pipe will be rotated in the surface casing

  - CENTENNIAL RESOURCE DEVELOPOMENT will not employ an air-drill rig for the surface casing. The casing shoe will be tested by drilling 5'-10' out from under the shoe and pressure testing to the maximum expected mud weight equivalent as shown in the mud program listed in the drilling plan.

CASING ASSUMPTIONS WORKSHEET:

Centralizer Program:

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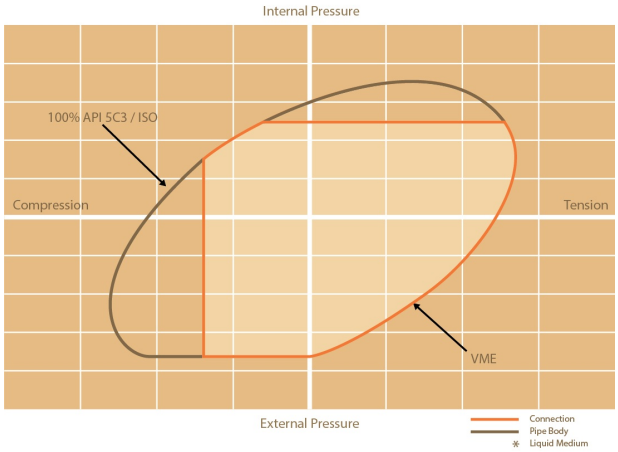
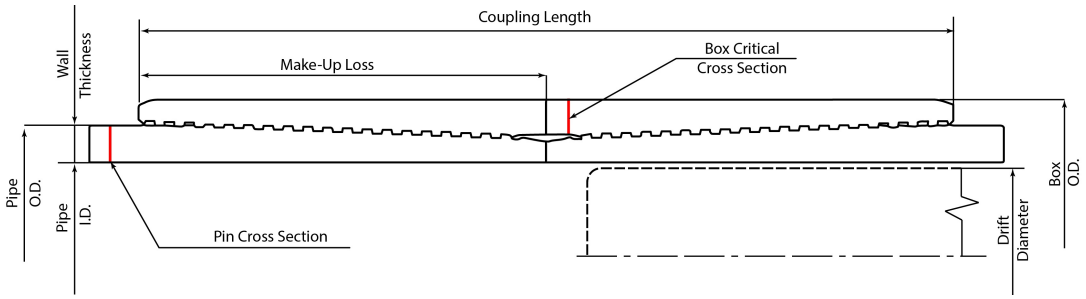
TUBULAR PARAMETERS	
Nominal OD, (inch)	5.500
Wall Thickness, (inch)	0.415
Pipe Grade	T95
Coupling	Regular
Coupling Grade	T95
Drift	Standard

CONNECTION PARAMETERS	
Connection OD (inch)	6.050
Connection ID, (inch)	4.670
Make-Up Loss, (inch)	4.122
Connection Critical Area, (sq inch)	8.722
Yield Strength in Tension, (klbs)	630
Yeld Strength in Compression, (klbs)	630
Tension Efficiency	100%
Compression Efficiency	100%
Min. Internal Yield Pressure, (psi)	12 540
Collapse Pressure, (psi)	12 930
Uniaxial Bending (deg/100ft)	79.0

MAKE-UP TORQUES	
Minimum Make-Up Torque, (ft-lb)	12 200
Optimum Make-Up Torque, (ft-lb)	13 600
Maximum Make-Up Torque, (ft-lb)	14 900
Operating Torque, (ft-lb)	18 500
Yield Torque, (ft-lb)	21 800

PIPE BODY PROPERTIES	
PE Weight, (lbs/ft)	22.54
Nominal Weight, (lbs/ft)	23.00
Nominal ID, (inch)	4.670
Drift Diameter, (inch)	4.545
Nominal Pipe Body Area, (sq inch)	6.630
Yield Strength in Tension, (klbs)	630
Min. Internal Yield Pressure, (psi)	12 540
Collapse Pressure, (psi)	12 930
Minimum Yield Strength, (psi)	95 000
Minimum Tensile Strength, (psi)	105 000





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CASING ASSUMPTIONS WORKSHEET:

Centralizer Program:

Surface: - 3 welded bow spring centralizers, one on each of the bottom 3 joints, plus one on the shoe joint (4 minimum)
- No Cement baskets will be run

Production: - 1 welded bow spring centralizer on a stop ring 6' above float shoe
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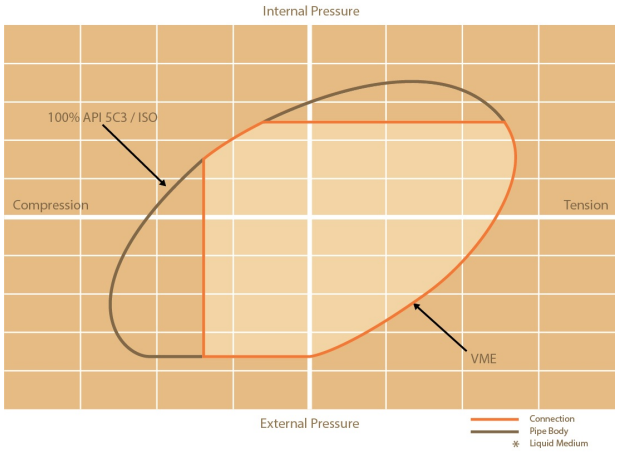
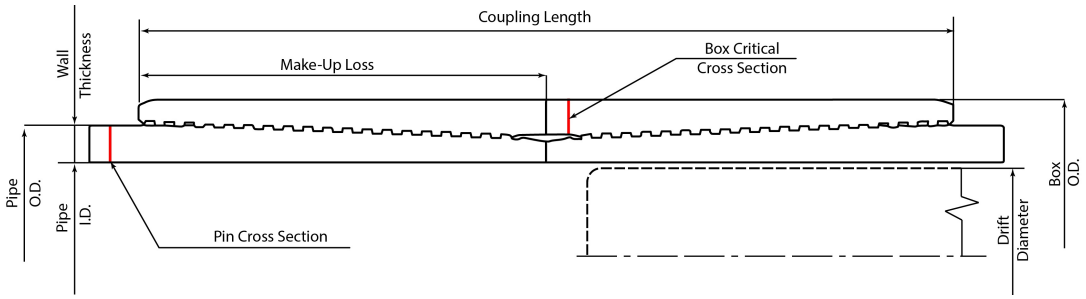
TUBULAR PARAMETERS	
Nominal OD, (inch)	5.500
Wall Thickness, (inch)	0.415
Pipe Grade	T95
Coupling	Regular
Coupling Grade	T95
Drift	Standard

CONNECTION PARAMETERS	
Connection OD (inch)	6.050
Connection ID, (inch)	4.670
Make-Up Loss, (inch)	4.122
Connection Critical Area, (sq inch)	8.722
Yield Strength in Tension, (klbs)	630
Yeld Strength in Compression, (klbs)	630
Tension Efficiency	100%
Compression Efficiency	100%
Min. Internal Yield Pressure, (psi)	12 540
Collapse Pressure, (psi)	12 930
Uniaxial Bending (deg/100ft)	79.0

MAKE-UP TORQUES	
Minimum Make-Up Torque, (ft-lb)	12 200
Optimum Make-Up Torque, (ft-lb)	13 600
Maximum Make-Up Torque, (ft-lb)	14 900
Operating Torque, (ft-lb)	18 500
Yield Torque, (ft-lb)	21 800

PIPE BODY PROPERTIES	
PE Weight, (lbs/ft)	22.54
Nominal Weight, (lbs/ft)	23.00
Nominal ID, (inch)	4.670
Drift Diameter, (inch)	4.545
Nominal Pipe Body Area, (sq inch)	6.630
Yield Strength in Tension, (klbs)	630
Min. Internal Yield Pressure, (psi)	12 540
Collapse Pressure, (psi)	12 930
Minimum Yield Strength, (psi)	95 000
Minimum Tensile Strength, (psi)	105 000





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HYDROGEN SULFIDE CONTINGENCY PLAN

Sheba Federal Com 306H

Section 27

T 24S R 34E

Lea County, NM

Table of Contents

INTRODUCTION

This plan specifies precautionary measures, safety equipment, emergency procedures, responsibilities, duties, and the compliance status pertaining to the production operations of Hydrogen Sulfide producing wells on:

Centennial Resource Development, Inc.

This plan will be in full effect prior to and continuing with all drilling operations for all wells producing potential Hydrogen Sulfide on the

Sheba Federal Com 306H

This plan was developed in response to the potential hazards involved when producing formations that may contain Hydrogen Sulfide (H_2S) It has been written in compliance with current New Mexico Oil Conservation Division Rule 118 and Bureau of Land Management 43 CFR 3160 Onshore Order No. 6.

All personnel shall receive proper H2S training in accordance with Onshore Order III.C.3.a

This plan shall require the full cooperation and efforts of all individuals participating in the production of potential H_2S wells.

Each individual is required to know their assigned responsibilities and duties in regard to normal production operations and emergency procedures.

Each person should thoroughly understand and be able to use all safety related equipment on the production facility.

Each person should become familiar with the location of all safety equipment and become involved in ensuring that all equipment is properly stored, easily accessible, and routinely maintained.

An ongoing training program will remain in effect with regular training, equipment inspections, and annual certifications for all personnel.

Centennial Resource Development, Inc. shall make every reasonable effort to provide all possible safeguards to protect all personnel, both on this location and in the immediate vicinity, from the harmful effects of H_2S exposure, if a release to the atmosphere should occur.

DIRECTIONS TO LOCATION

Sheba Federal Com 306H

Section 27

T 24S R 34E

Lea County, NM

PROCEED IN A WESTERLY, THEN NORTHWESTERLY, THEN WESTERLY DIRECTION FROM JAL, NEW MEXICO ALONG NM-128 APPROXIMATELY 18.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 1.2 MILES TO THE BEGINNING OF THE PROPOSED ROMEO FEDERAL COM 302H &
JULIET FEDERAL COM 402H ACCESS ROAD TO THE SOUTH; FOLLOW ROAD FLAGS IN A SOUTHERLY DIRECTION APPROXIMATELY 2,665' TO THE BEGINNING OF THE PROPOSED JULIET FEDERAL COM 103H, 104H, 303H & 403H ACCESS ROAD "A" TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY DIRECTION APPROXIMATELY 354' TO THE BEGINNING OF THE PROPOSED SOLOMON FEDERAL COM 105H, 106H, 304H & 404H ACCESS ROAD
"A" TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY DIRECTION APPROXIMATELY 921' TO THE BEGINNING OF THE PROPOSED ACCESS ROAD
"A" TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY, THEN NORTHERLY, EASTERLY DIRECTION APPROXIMATELY 1,020' TO THE PROPOSED LOCATION.

SAFE BRIEFING AREAS

Two areas will be designated as “SAFE BRIEFING AREAS”.

The Primary Safe Briefing Area

If the Primary Safe Briefing Area cannot be used due to wind conditions; the designated secondary safe briefing area will be used.

These two areas are so designated for accessibility reasons related to self-contained safe breathing air device locations, evacuation muster point utility, and for ease of overall communication, organizational support, as well as the all-important prevailing wind directions. Drawings of the facility denoting these locations are included on Page 15.

If H_2S is detected in concentrations equal to or in excess of 15 PPM, all personnel not assigned emergency duties are to assemble in the appropriate “SAFE BRIEFING AREA” for instructions.

Wind Direction Indicators: A windsock, shall be positioned, allowing the wind direction to be observed from anywhere on the charted facility location.

Warning-DANGER SIGNS for Approaching Traffic: All signs shall also be illuminated under conditions of poor visibility.

DANGER
POISONOUS GAS
HYDROGEN SULFIDE
DO NOT APPROACH IF AMBER LIGHTS ARE FLASHING

An amber strobe light system will be activated for H_2S concentrations of 10 PPM or greater and an audible alarm will sound when H_2S exceeds 15 ppm, and. This condition will exist until the all clear is given.

DRILL SITE LOCATION:

1. The drilling rig should be situated on location such that the prevailing winds blow across the rig toward the reserve pit or at right angles to a line from the rig to the reserve pit.
2. The entrance to the location should be designated so that it can be barricaded if Hydrogen Sulfide emergency conditions arise. An auxiliary exit (or entrance) should be available in case of a catastrophe; a shift in wind direction would not preclude escape from the location. Appropriate warning signs and flags should be placed at all location entrances.
3. Once H2S safety procedures are established on location, no beards or facial hair, which will interfere with face seal or mask, will be allowed on location.
4. A minimum of two BRIEFING AREAS will be established, no less than 250 feet from the wellhead and in such location that at least one area will be up-wind from the well at all times. Upon recognition of an emergency situation, all personnel should assemble at the designated briefing areas for instructions.
5. A safety equipment trailer will be station at one of the briefing areas.
6. Windsocks will be installed and wind streamers (6 to 8 feet above ground level) placed at the location entrance. Windsocks shall be illuminated for nighttime operations. Personnel should develop wind direction consciousness.
7. The mud-logging trailer will be located so as to minimize the danger from the gas that breaks out of the drilling fluid.
8. Shale shaker mud tanks will be located so as to minimize the danger from gas that breaks out of the drilling fluid.
9. Electric power plant(s) will be located as far from the well bore as practical so that it may be used under conditions where it otherwise would have to be shut down.
10. When approaching depth where Hydrogen Sulfide may be encountered, appropriate warning signs will be posted on all access roads to the location and at the foot of all stairways to the derrick floor.
11. Appropriate smoking areas will be designated, and smoking will be prohibited elsewhere.

The table below lists various poisonous gases and the concentrations at which they become dangerous.

TOXICITY OF VARIOUS GASES

TOXICITY OF GASES (Taken from API RP-49 September 1974 – Re-issued August 1978)					
Common Name	**Chemical Formula**	**Gravity (Air = 1)**	**Threshold 1 Limit**	**Hazardous 2 Limit**	**Lethal 3 Limit**
Hydrogen Sulfide	H_2S	1.18	10 ppm	250 ppm/1hr	600 ppm
Sulfur Dioxide	SO_2	2.21	20 ppm	---	1000 ppm
Carbon Monoxide	CO	0.97	50 ppm	400 ppm/1hr	1000 ppm
Carbon Dioxide	CO_2	1.52	5000 ppm	5%	10%
Methane	CH_4	0.55	90000 ppm	Combustible Above 5% in Air	

1. Threshold concentration at which it is believed that all workers may repeatedly be exposed day after day, without adverse effect	2. Hazardous concentration that may cause death	3. Lethal concentration that will cause death with short-term exposure

Properties of Gases

The produced gas will probably be a mixture of Carbon Dioxide, Hydrogen Sulfide, and Methane.

Carbon Dioxide
Carbon Dioxide (CO_2) is usually considered inert and is commonly used to extinguish fires.

It is heavier than air (1.52 times) and it will concentrate in low areas of still air.

Humans cannot breathe air containing more than 10% CO_2 without losing consciousness. Air containing 5% CO_2 will cause disorientation in a few minutes.

Continued exposures to CO_2 after being affected will cause convulsions, coma, and respiratory failure.

The threshold limit of CO_2 is 5000 ppm.

Short-term exposure to 50,000 PPM (5%) is reasonable. This gas is colorless and odorless and can be tolerated in relatively high concentrations.

Hydrogen Sulfide

Hydrogen Sulfide (H_2S) itself is a colorless, transparent gas and is flammable. It is heavier than air and, hence, may accumulate in low places.

Although the slightest presence of H_2S in the air is normally detectable by its characteristic "rotten egg" odor, it is dangerous to rely on the odor as a means of detecting excessive concentrations because the sense of smell is rapidly lost, allowing lethal concentrations to be accumulated without warning. The following table indicates the poisonous nature of Hydrogen Sulfide.

HYDROGEN SULFIDE TOXICITY			
Concentration			Effects
$\%H_2S$	PPM	GR/100 SCF 1	
0.001	10	0.65	Safe for 8 hours without respirator. Obvious and unpleasant odor.
0.002	20	1.30	Burning in eyes and irritation of respiratory tract after on hour.
0.01	100	6.48	Kills smell in 3 to 15 minutes; may sting eyes and throat.
0.02	200	12.96	Kills smell shortly; stings eyes and throat.
0.05	500	32.96	Dizziness; breathing ceases in a few minutes; need prompt artificial respiration.
0.07	700	45.92	Unconscious quickly; death will result if not rescued promptly
0.10	1000	64.80	DEATH!
Note: 1 grain per 100 cubic feet			

Sulfur Dioxide

Sulfur Dioxide is a colorless, transparent gas and is non-flammable.

Sulfur Dioxide (SO_2) is produced during the burning of H_2S. Although SO_2 is heavier than air, it will be picked up by a breeze and carried downwind at elevated temperatures. Since Sulfur Dioxide is extremely irritating to the eyes and mucous membranes of the upper respiratory tract, it has exceptionally good warning powers in this respect. The following table indicates the toxic nature of the gas.

SULFUR DIOXIDE TOXICITY		
Concentration		Effects
$\%SO_2$	PPM	
0.0005	3 to 5	Pungent odor-normally a person can detect SO_2 in this range.
0.0012	12	Throat irritation, coughing, and constriction of the chest tearing and smarting of eyes.
0.15	150	So irritating that it can only be endured for a few minutes.
0.05	500	Causes a sense of suffocation, even with first breath.

H_2S REQUIRED EQUIPMENT LIST

RESPIRATORY SAFETY SYSTEMS

- Working cascade system available on rig floor and pit system & 750' of air line hose
- Four (4) breathing air manifolds
- Four (4) 30-minute rescue packs
- Five (5) work/Escape units
- Five (5) escape units
- One (1) filler hose for the work/escape/rescue units

DETECTION AND ALARM SYSTEM

- 4 channel H2S monitor
- 4 wireless H2S monitors
- H2S alarm system (Audible/Red strobe)
- Personal gas monitor for each person on location
- Gas sample tubes

WELL CONTROL EQUIPMENT

- Flare line with remote ignitor and backup flare gun, placed 150' from wellhead
- Choke manifold with remotely operated choke
- Mud gas separator

VISUAL WARNING SYSTEMS

- One color code condition sign will be placed at each entrance reflecting possible conditions at the site
- A colored condition flag will be on display, reflecting current condition at the site at the time
- At least 4 wind socks placed on location, visible at all angles and locations

MUD PROGRAM

- Mud will contain sufficient weight and additives to control and minimize H2S

METALLURGY

- All drill strings, casing, tubing, wellhead, BOP, spools, kill lines, choke manifold and lines, and valves shall be suitable for anticipated H2S volume and pressure

COMMUNICATION

- Cell phones, intercoms, and satellite phones will be available on location

ADDITIONAL SAFETY RELATED ITEMS

- Stretcher
- 2 OSHA full body harness
- 20# class ABC fire extinguisher

DETERMINATION OF RADIUS OF EXPOSURE

Potentially hazardous volume means a volume of gas of such H2S concentration and flow rate that it may result in radius of exposure-calculated ambient concentrations of 100 ppm H2S at any occupied residence, school, church, park, school bus stop, place of business or other area where the public could reasonably be expected to frequent, or 500 ppm H2S at any Federal, State, County or municipal road or highway.

Currently there are no residence located within the ROE

Radius of exposure means the calculation resulting from using the Pasquill -Gifford derived equation, or by such other method(s) that may be approved by the authorized officer.
Advanced Fire and Safety has provided the Pasquill-Gifford formula in excel format for simple calculations.

NEW MEXICO OIL & GAS CONSERVATION DIVISION 118

Sheba Federal Com 306H

H2S Concentration- 100 PPM

Maximum Escape Volume- 5000 MCF/Day

100 PPM Radius of Exposure - 65
(Formula= 1.589 x (100/1000000) x (5000 x 1000) ^ .6258

500 PPM Radius of Exposure - 30
Formula= .4546 x (250/1000000) x (5000 x 1000) ^ .6258

EMERGENCY CONTACT LIST

911 is available in the area			
NAME	**POSITION**	**COMPANY**	**NUMBER**
Centennial Contacts			
Ronny Hise	Drilling Engineer	CDEV	432-770-4786
Jason Fritzgerald	Superintendent	CDEV	318-347-3916
Brett Thompson	Drilling Manager	CDEV	720-656-7027
Derrick Melton	HSE Manager	CDEV	432-296-8720
Company man	Drilling Supervisor	CDEV	432-538-3343
Local Emergency Response			
Fire Department			575-395-2511
Jal Community Hospital			505-395-2511
State Police			505-827-9000
Lea County Sheriff			575-396-3611
Safety Contractor			
Advanced Safety	Office	Advanced Safety	833-296-3913
Joe Gadway	Permian Supervisor	Advanced Safety	318-446-3716
Clint Hudson	Operations Manager	Advanced Safety	337-552-8330
Well Control Company			
Wild Well Control			866-404-9564
Contractors			
Tommy E Lee	Pump Trucks		432-813-7140
Kevin Reed	Drilling Fluids	AES	575-441-6646
Compass Coordinators	Cement	Compass	432-561-5970

CENTENNIAL
RESOURCE DEVELOPMENT, INC

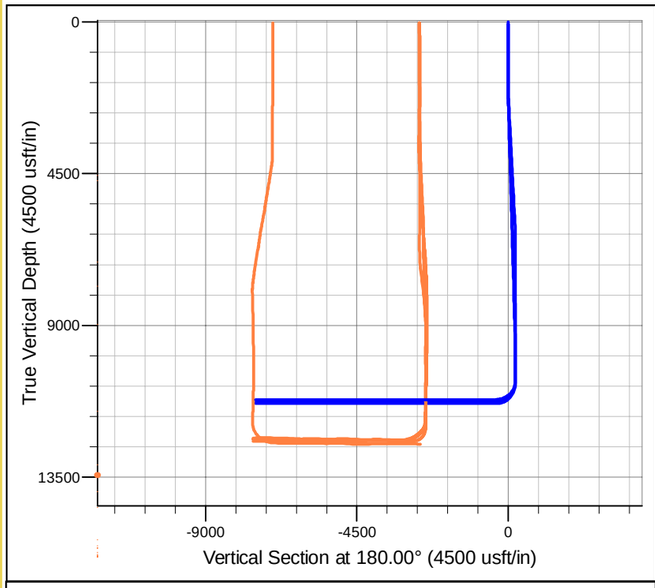
SOLOMON FED COM 505H_SHEBA FED COM 506H_507H

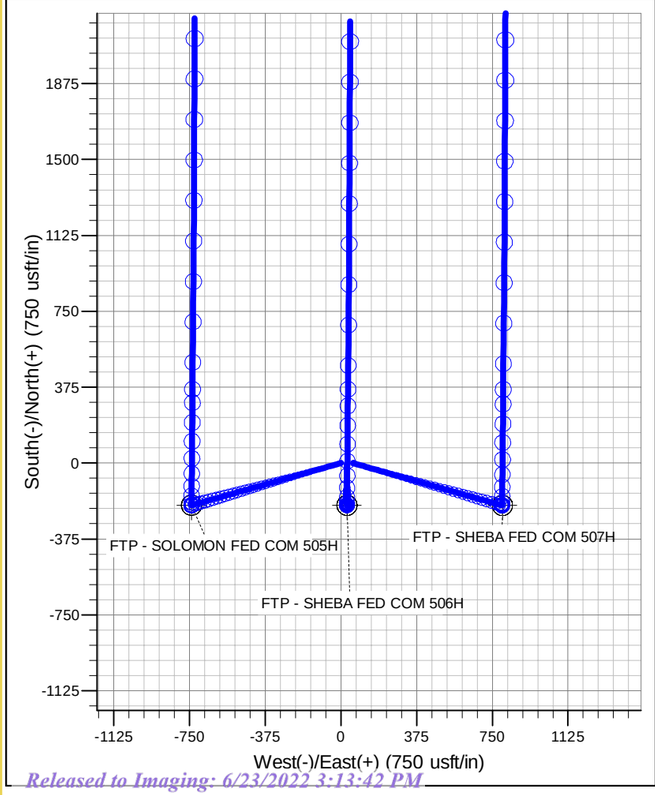
PROJECT DETAILS: LEA COUNTY	
Geodetic System:	Universal Transverse Mercator (US Survey Feet)
Datum:	North American Datum 1983
Ellipsoid:	GRS 1980
Zone:	Zone 13N (108 W to 102 W)
System Datum:	Mean Sea Level

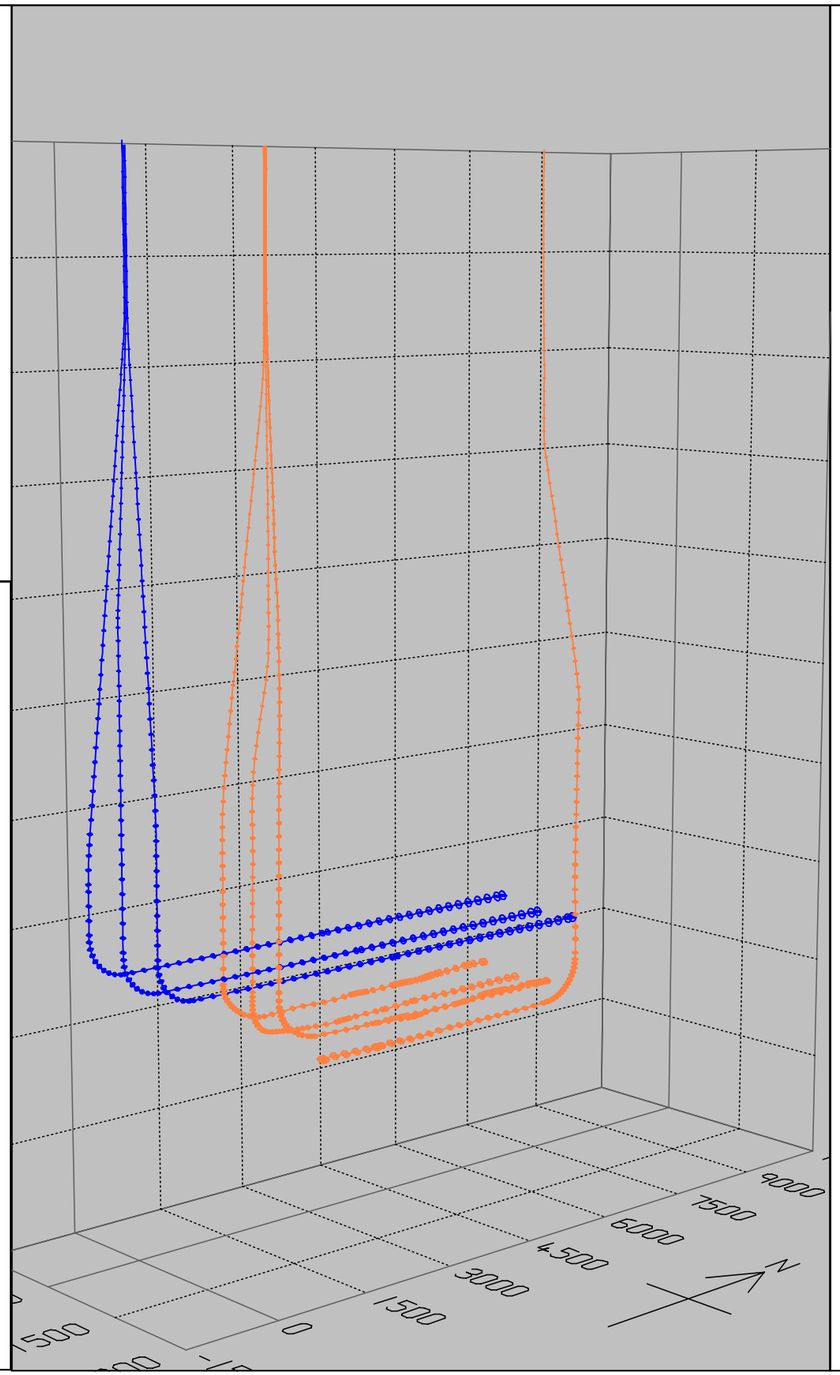
T M

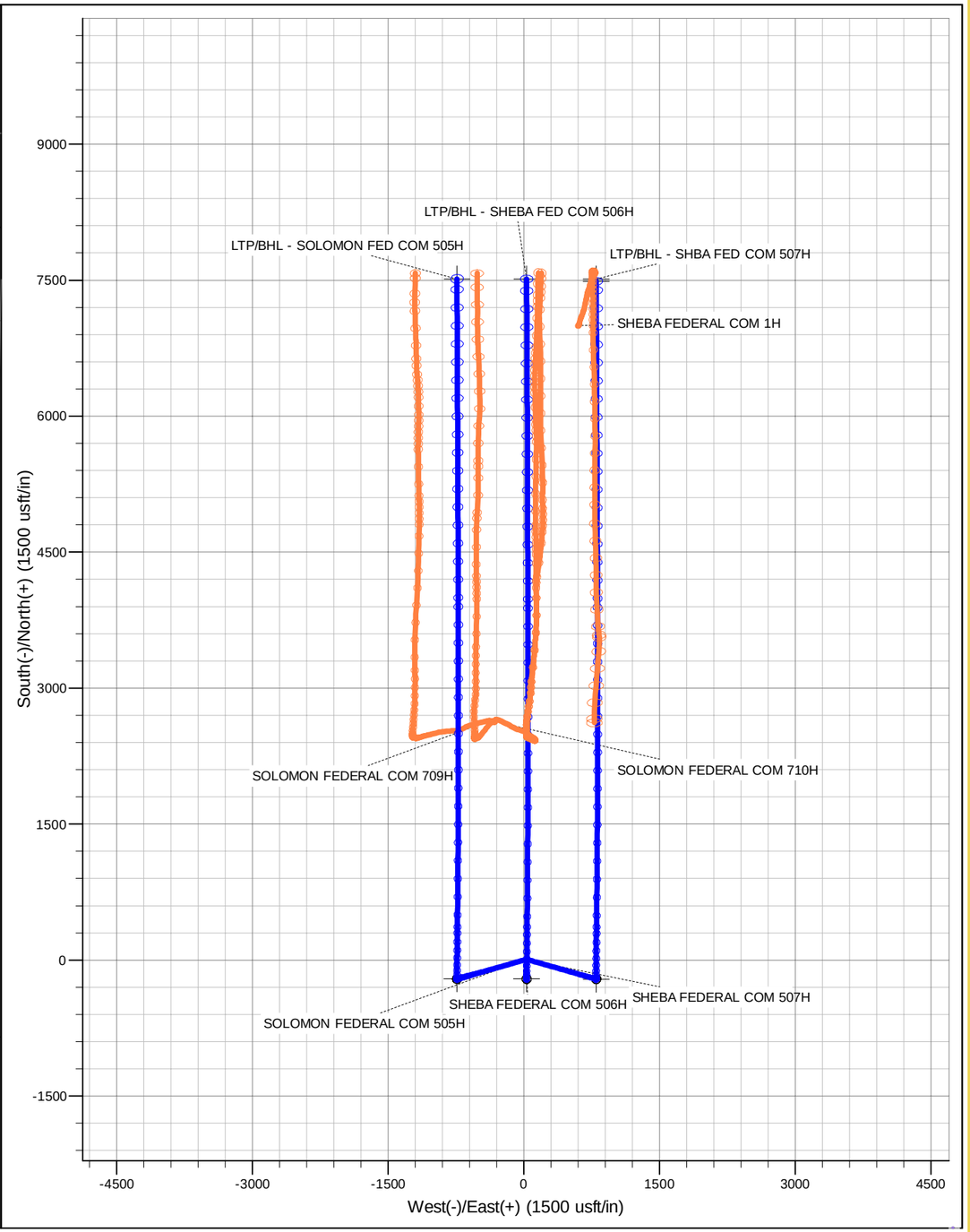
Azimuths to True North
Magnetic North: 7.69°

Magnetic Field
Strength: 48784.8nT
Dip Angle: 60.23°
Date: 11/6/2018
Model: IGRF200510









NEW MEXICO

LEA
SOLOMON FEDERAL
SHEBA FEDERAL COM 507H

SHEBA FEDERAL COM 507H

Plan: PWP0

Survey Report - Geographic

27 April, 2020

Centennial Resource Dev

Survey Report - Geographic

Company:	NEW MEXICO	**Local Co-ordinate Reference:**	Well SHEBA FEDERAL COM 507H
Project:	LEA	**TVD Reference:**	RKB=3460.9+25 @ 3485.9usft
Site:	SOLOMON FEDERAL	**MD Reference:**	RKB=3460.9+25 @ 3485.9usft
Well:	SHEBA FEDERAL COM 507H	**North Reference:**	True
Wellbore:	SHEBA FEDERAL COM 507H	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP0	**Database:**	Compass

Project LEA

Map System:	Universal Transverse Mercator (US Survey Feet)	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Zone 13N (108 W to 102 W)		

Site SOLOMON FEDERAL

Site Position:		**Northing:**	0.00 usft	**Latitude:**	0° 0' 0.000 N
From:	Map	**Easting:**	0.00 usft	**Longitude:**	109° 29' 19.478 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.00 °

Well SHEBA FEDERAL COM 507H

Well Position	**+N/-S**	0.0 usft	**Northing:**	11,687,881.31 usft	**Latitude:**	32° 11' 21.661 N
	+E/-W	0.0 usft	**Easting:**	2,118,937.86 usft	**Longitude:**	103° 27' 9.864 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,460.9 usft

Wellbore SHEBA FEDERAL COM 507H

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.69	60.23	48,784.82662776

Design PWP0

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	5.65

Survey Tool Program **Date** 1/13/2020

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	18,697.0	PWP0 (SHEBA FEDERAL COM 507H)	MWD+IFR1+MS	OWSG_Rev2_ MWD + IFR1 + Multi-Station Correction

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	11,687,881.31	2,118,937.86	32° 11' 21.661 N	103° 27' 9.864 W
2,000.0	0.00	0.00	2,000.0	0.0	0.0	11,687,881.31	2,118,937.86	32° 11' 21.661 N	103° 27' 9.864 W
2,700.0	7.00	105.80	2,698.3	-11.6	41.1	11,687,870.28	2,118,979.11	32° 11' 21.546 N	103° 27' 9.386 W
8,300.0	7.00	105.80	8,256.5	-197.5	697.8	11,687,693.92	2,119,638.40	32° 11' 19.707 N	103° 27' 1.744 W
9,000.0	0.00	0.00	8,954.8	-209.1	738.9	11,687,682.89	2,119,679.66	32° 11' 19.592 N	103° 27' 1.265 W
10,672.0	0.00	0.00	10,626.8	-209.1	738.9	11,687,682.89	2,119,679.66	32° 11' 19.592 N	103° 27' 1.265 W
11,572.4	90.00	0.53	11,200.0	364.1	744.2	11,688,256.10	2,119,676.71	32° 11' 25.265 N	103° 27' 1.204 W
15,192.1	90.00	359.79	11,200.0	3,983.7	754.2	11,691,875.47	2,119,634.62	32° 12' 1.086 N	103° 27' 1.086 W
18,697.0	90.00	359.79	11,200.0	7,488.6	741.1	11,695,379.84	2,119,571.10	32° 12' 35.773 N	103° 27' 1.237 W

Centennial Resource Dev

Survey Report - Geographic

Company:	NEW MEXICO	**Local Co-ordinate Reference:**	Well SHEBA FEDERAL COM 507H
Project:	LEA	**TVD Reference:**	RKB=3460.9+25 @ 3485.9usft
Site:	SOLOMON FEDERAL	**MD Reference:**	RKB=3460.9+25 @ 3485.9usft
Well:	SHEBA FEDERAL COM 507H	**North Reference:**	True
Wellbore:	SHEBA FEDERAL COM 507H	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP0	**Database:**	Compass

Project	LEA		
Map System:	Universal Transverse Mercator (US Survey Feet)	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Zone 13N (108 W to 102 W)		

Site	SOLOMON FEDERAL				
Site Position:		**Northing:**	0.00 usft	**Latitude:**	0° 0' 0.000 N
From:	Map	**Easting:**	0.00 usft	**Longitude:**	109° 29' 19.478 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.00 °

Well	SHEBA FEDERAL COM 507H					
Well Position	**+N/-S**	0.0 usft	**Northing:**	11,687,881.31 usft	**Latitude:**	32° 11' 21.661 N
	+E/-W	0.0 usft	**Easting:**	2,118,937.86 usft	**Longitude:**	103° 27' 9.864 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,460.9 usft

Wellbore	SHEBA FEDERAL COM 507H			
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF200510	12/31/2009	7.69	60.23	48,784.82662776

Design	PWP0				
Audit Notes:					
Version:		**Phase:**	PLAN	**Tie On Depth:**	0.0
Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**	
	0.0	0.0	0.0	5.65	

Survey Tool Program **Date** 1/13/2020

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	18,697.0	PWP0 (SHEBA FEDERAL COM 507H)	MWD+IFR1+MS	OWSG_Rev2_ MWD + IFR1 + Multi-Station Correction

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	11,687,881.31	2,118,937.86	32° 11' 21.661 N	103° 27' 9.864 W
100.0	0.00	0.00	100.0	0.0	0.0	11,687,881.31	2,118,937.86	32° 11' 21.661 N	103° 27' 9.864 W
200.0	0.00	0.00	200.0	0.0	0.0	11,687,881.31	2,118,937.86	32° 11' 21.661 N	103° 27' 9.864 W
300.0	0.00	0.00	300.0	0.0	0.0	11,687,881.31	2,118,937.86	32° 11' 21.661 N	103° 27' 9.864 W
400.0	0.00	0.00	400.0	0.0	0.0	11,687,881.31	2,118,937.86	32° 11' 21.661 N	103° 27' 9.864 W
500.0	0.00	0.00	500.0	0.0	0.0	11,687,881.31	2,118,937.86	32° 11' 21.661 N	103° 27' 9.864 W
600.0	0.00	0.00	600.0	0.0	0.0	11,687,881.31	2,118,937.86	32° 11' 21.661 N	103° 27' 9.864 W
700.0	0.00	0.00	700.0	0.0	0.0	11,687,881.31	2,118,937.86	32° 11' 21.661 N	103° 27' 9.864 W
800.0	0.00	0.00	800.0	0.0	0.0	11,687,881.31	2,118,937.86	32° 11' 21.661 N	103° 27' 9.864 W
900.0	0.00	0.00	900.0	0.0	0.0	11,687,881.31	2,118,937.86	32° 11' 21.661 N	103° 27' 9.864 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	11,687,881.31	2,118,937.86	32° 11' 21.661 N	103° 27' 9.864 W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	11,687,881.31	2,118,937.86	32° 11' 21.661 N	103° 27' 9.864 W

Centennial Resource Dev

Survey Report - Geographic

Company:	NEW MEXICO	**Local Co-ordinate Reference:**	Well SHEBA FEDERAL COM 507H
Project:	LEA	**TVD Reference:**	RKB=3460.9+25 @ 3485.9usft
Site:	SOLOMON FEDERAL	**MD Reference:**	RKB=3460.9+25 @ 3485.9usft
Well:	SHEBA FEDERAL COM 507H	**North Reference:**	True
Wellbore:	SHEBA FEDERAL COM 507H	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP0	**Database:**	Compass

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,200.0	0.00	0.00	1,200.0	0.0	0.0	11,687,881.31	2,118,937.86	32° 11' 21.661 N	103° 27' 9.864 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	11,687,881.31	2,118,937.86	32° 11' 21.661 N	103° 27' 9.864 W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	11,687,881.31	2,118,937.86	32° 11' 21.661 N	103° 27' 9.864 W
1,500.0	0.00	0.00	1,500.0	0.0	0.0	11,687,881.31	2,118,937.86	32° 11' 21.661 N	103° 27' 9.864 W
1,600.0	0.00	0.00	1,600.0	0.0	0.0	11,687,881.31	2,118,937.86	32° 11' 21.661 N	103° 27' 9.864 W
1,700.0	0.00	0.00	1,700.0	0.0	0.0	11,687,881.31	2,118,937.86	32° 11' 21.661 N	103° 27' 9.864 W
1,800.0	0.00	0.00	1,800.0	0.0	0.0	11,687,881.31	2,118,937.86	32° 11' 21.661 N	103° 27' 9.864 W
1,900.0	0.00	0.00	1,900.0	0.0	0.0	11,687,881.31	2,118,937.86	32° 11' 21.661 N	103° 27' 9.864 W
2,000.0	0.00	0.00	2,000.0	0.0	0.0	11,687,881.31	2,118,937.86	32° 11' 21.661 N	103° 27' 9.864 W
2,100.0	1.00	105.80	2,100.0	-0.2	0.8	11,687,881.09	2,118,938.70	32° 11' 21.659 N	103° 27' 9.854 W
2,200.0	2.00	105.80	2,200.0	-1.0	3.4	11,687,880.41	2,118,941.23	32° 11' 21.652 N	103° 27' 9.825 W
2,300.0	3.00	105.80	2,299.9	-2.1	7.6	11,687,879.28	2,118,945.44	32° 11' 21.640 N	103° 27' 9.776 W
2,400.0	4.00	105.80	2,399.7	-3.8	13.4	11,687,877.70	2,118,951.34	32° 11' 21.624 N	103° 27' 9.708 W
2,500.0	5.00	105.80	2,499.4	-5.9	21.0	11,687,875.68	2,118,958.92	32° 11' 21.603 N	103° 27' 9.620 W
2,600.0	6.00	105.80	2,598.9	-8.5	30.2	11,687,873.20	2,118,968.18	32° 11' 21.577 N	103° 27' 9.513 W
2,700.0	7.00	105.80	2,698.3	-11.6	41.1	11,687,870.28	2,118,979.11	32° 11' 21.546 N	103° 27' 9.386 W
2,800.0	7.00	105.80	2,797.5	-14.9	52.8	11,687,867.13	2,118,990.89	32° 11' 21.514 N	103° 27' 9.250 W
2,900.0	7.00	105.80	2,896.8	-18.3	64.5	11,687,863.98	2,119,002.66	32° 11' 21.481 N	103° 27' 9.113 W
3,000.0	7.00	105.80	2,996.0	-21.6	76.3	11,687,860.83	2,119,014.43	32° 11' 21.448 N	103° 27' 8.977 W
3,100.0	7.00	105.80	3,095.3	-24.9	88.0	11,687,857.68	2,119,026.21	32° 11' 21.415 N	103° 27' 8.840 W
3,200.0	7.00	105.80	3,194.5	-28.2	99.7	11,687,854.53	2,119,037.98	32° 11' 21.382 N	103° 27' 8.704 W
3,300.0	7.00	105.80	3,293.8	-31.5	111.5	11,687,851.38	2,119,049.75	32° 11' 21.349 N	103° 27' 8.567 W
3,400.0	7.00	105.80	3,393.0	-34.9	123.2	11,687,848.23	2,119,061.53	32° 11' 21.316 N	103° 27' 8.431 W
3,500.0	7.00	105.80	3,492.3	-38.2	134.9	11,687,845.08	2,119,073.30	32° 11' 21.284 N	103° 27' 8.294 W
3,600.0	7.00	105.80	3,591.6	-41.5	146.6	11,687,841.93	2,119,085.07	32° 11' 21.251 N	103° 27' 8.158 W
3,700.0	7.00	105.80	3,690.8	-44.8	158.4	11,687,838.78	2,119,096.84	32° 11' 21.218 N	103° 27' 8.021 W
3,800.0	7.00	105.80	3,790.1	-48.1	170.1	11,687,835.63	2,119,108.62	32° 11' 21.185 N	103° 27' 7.885 W
3,900.0	7.00	105.80	3,889.3	-51.4	181.8	11,687,832.49	2,119,120.39	32° 11' 21.152 N	103° 27' 7.748 W
4,000.0	7.00	105.80	3,988.6	-54.8	193.5	11,687,829.34	2,119,132.16	32° 11' 21.119 N	103° 27' 7.612 W
4,100.0	7.00	105.80	4,087.8	-58.1	205.3	11,687,826.19	2,119,143.94	32° 11' 21.087 N	103° 27' 7.475 W
4,200.0	7.00	105.80	4,187.1	-61.4	217.0	11,687,823.04	2,119,155.71	32° 11' 21.054 N	103° 27' 7.339 W
4,300.0	7.00	105.80	4,286.3	-64.7	228.7	11,687,819.89	2,119,167.48	32° 11' 21.021 N	103° 27' 7.202 W
4,400.0	7.00	105.80	4,385.6	-68.0	240.4	11,687,816.74	2,119,179.26	32° 11' 20.988 N	103° 27' 7.066 W
4,500.0	7.00	105.80	4,484.8	-71.4	252.2	11,687,813.59	2,119,191.03	32° 11' 20.955 N	103° 27' 6.930 W
4,600.0	7.00	105.80	4,584.1	-74.7	263.9	11,687,810.44	2,119,202.80	32° 11' 20.922 N	103° 27' 6.793 W
4,700.0	7.00	105.80	4,683.4	-78.0	275.6	11,687,807.29	2,119,214.57	32° 11' 20.890 N	103° 27' 6.657 W
4,800.0	7.00	105.80	4,782.6	-81.3	287.4	11,687,804.14	2,119,226.35	32° 11' 20.857 N	103° 27' 6.520 W
4,900.0	7.00	105.80	4,881.9	-84.6	299.1	11,687,800.99	2,119,238.12	32° 11' 20.824 N	103° 27' 6.384 W
5,000.0	7.00	105.80	4,981.1	-87.9	310.8	11,687,797.84	2,119,249.89	32° 11' 20.791 N	103° 27' 6.247 W
5,100.0	7.00	105.80	5,080.4	-91.3	322.5	11,687,794.69	2,119,261.67	32° 11' 20.758 N	103° 27' 6.111 W
5,200.0	7.00	105.80	5,179.6	-94.6	334.3	11,687,791.55	2,119,273.44	32° 11' 20.725 N	103° 27' 5.974 W
5,300.0	7.00	105.80	5,278.9	-97.9	346.0	11,687,788.40	2,119,285.21	32° 11' 20.693 N	103° 27' 5.838 W
5,400.0	7.00	105.80	5,378.1	-101.2	357.7	11,687,785.25	2,119,296.99	32° 11' 20.660 N	103° 27' 5.701 W
5,500.0	7.00	105.80	5,477.4	-104.5	369.4	11,687,782.10	2,119,308.76	32° 11' 20.627 N	103° 27' 5.565 W
5,600.0	7.00	105.80	5,576.6	-107.9	381.2	11,687,778.95	2,119,320.53	32° 11' 20.594 N	103° 27' 5.428 W
5,700.0	7.00	105.80	5,675.9	-111.2	392.9	11,687,775.80	2,119,332.30	32° 11' 20.561 N	103° 27' 5.292 W
5,800.0	7.00	105.80	5,775.2	-114.5	404.6	11,687,772.65	2,119,344.08	32° 11' 20.528 N	103° 27' 5.155 W
5,900.0	7.00	105.80	5,874.4	-117.8	416.3	11,687,769.50	2,119,355.85	32° 11' 20.495 N	103° 27' 5.019 W
6,000.0	7.00	105.80	5,973.7	-121.1	428.1	11,687,766.35	2,119,367.62	32° 11' 20.463 N	103° 27' 4.882 W
6,100.0	7.00	105.80	6,072.9	-124.4	439.8	11,687,763.20	2,119,379.40	32° 11' 20.430 N	103° 27' 4.746 W
6,200.0	7.00	105.80	6,172.2	-127.8	451.5	11,687,760.05	2,119,391.17	32° 11' 20.397 N	103° 27' 4.610 W
6,300.0	7.00	105.80	6,271.4	-131.1	463.2	11,687,756.90	2,119,402.94	32° 11' 20.364 N	103° 27' 4.473 W
6,400.0	7.00	105.80	6,370.7	-134.4	475.0	11,687,753.76	2,119,414.72	32° 11' 20.331 N	103° 27' 4.337 W
6,500.0	7.00	105.80	6,469.9	-137.7	486.7	11,687,750.61	2,119,426.49	32° 11' 20.298 N	103° 27' 4.200 W
6,600.0	7.00	105.80	6,569.2	-141.0	498.4	11,687,747.46	2,119,438.26	32° 11' 20.266 N	103° 27' 4.064 W

Centennial Resource Dev

Survey Report - Geographic

Company:	NEW MEXICO	**Local Co-ordinate Reference:**	Well SHEBA FEDERAL COM 507H
Project:	LEA	**TVD Reference:**	RKB=3460.9+25 @ 3485.9usft
Site:	SOLOMON FEDERAL	**MD Reference:**	RKB=3460.9+25 @ 3485.9usft
Well:	SHEBA FEDERAL COM 507H	**North Reference:**	True
Wellbore:	SHEBA FEDERAL COM 507H	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP0	**Database:**	Compass

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,700.0	7.00	105.80	6,668.4	-144.4	510.2	11,687,744.31	2,119,450.04	32° 11' 20.233 N	103° 27' 3.927 W
6,800.0	7.00	105.80	6,767.7	-147.7	521.9	11,687,741.16	2,119,461.81	32° 11' 20.200 N	103° 27' 3.791 W
6,900.0	7.00	105.80	6,867.0	-151.0	533.6	11,687,738.01	2,119,473.58	32° 11' 20.167 N	103° 27' 3.654 W
7,000.0	7.00	105.80	6,966.2	-154.3	545.3	11,687,734.86	2,119,485.35	32° 11' 20.134 N	103° 27' 3.518 W
7,100.0	7.00	105.80	7,065.5	-157.6	557.1	11,687,731.71	2,119,497.13	32° 11' 20.101 N	103° 27' 3.381 W
7,200.0	7.00	105.80	7,164.7	-161.0	568.8	11,687,728.56	2,119,508.90	32° 11' 20.069 N	103° 27' 3.245 W
7,300.0	7.00	105.80	7,264.0	-164.3	580.5	11,687,725.41	2,119,520.67	32° 11' 20.036 N	103° 27' 3.108 W
7,400.0	7.00	105.80	7,363.2	-167.6	592.2	11,687,722.26	2,119,532.45	32° 11' 20.003 N	103° 27' 2.972 W
7,500.0	7.00	105.80	7,462.5	-170.9	604.0	11,687,719.11	2,119,544.22	32° 11' 19.970 N	103° 27' 2.835 W
7,600.0	7.00	105.80	7,561.7	-174.2	615.7	11,687,715.97	2,119,555.99	32° 11' 19.937 N	103° 27' 2.699 W
7,700.0	7.00	105.80	7,661.0	-177.5	627.4	11,687,712.82	2,119,567.77	32° 11' 19.904 N	103° 27' 2.562 W
7,800.0	7.00	105.80	7,760.2	-180.9	639.1	11,687,709.67	2,119,579.54	32° 11' 19.871 N	103° 27' 2.426 W
7,900.0	7.00	105.80	7,859.5	-184.2	650.9	11,687,706.52	2,119,591.31	32° 11' 19.839 N	103° 27' 2.290 W
8,000.0	7.00	105.80	7,958.8	-187.5	662.6	11,687,703.37	2,119,603.08	32° 11' 19.806 N	103° 27' 2.153 W
8,100.0	7.00	105.80	8,058.0	-190.8	674.3	11,687,700.22	2,119,614.86	32° 11' 19.773 N	103° 27' 2.017 W
8,200.0	7.00	105.80	8,157.3	-194.1	686.1	11,687,697.07	2,119,626.63	32° 11' 19.740 N	103° 27' 1.880 W
8,300.0	7.00	105.80	8,256.5	-197.5	697.8	11,687,693.92	2,119,638.40	32° 11' 19.707 N	103° 27' 1.744 W
8,400.0	6.00	105.80	8,355.9	-200.5	708.7	11,687,691.00	2,119,649.34	32° 11' 19.677 N	103° 27' 1.617 W
8,500.0	5.00	105.80	8,455.4	-203.1	717.9	11,687,688.52	2,119,658.60	32° 11' 19.651 N	103° 27' 1.510 W
8,600.0	4.00	105.80	8,555.1	-205.3	725.4	11,687,686.49	2,119,666.18	32° 11' 19.630 N	103° 27' 1.422 W
8,700.0	3.00	105.80	8,654.9	-206.9	731.3	11,687,684.91	2,119,672.07	32° 11' 19.613 N	103° 27' 1.353 W
8,800.0	2.00	105.80	8,754.8	-208.1	735.5	11,687,683.79	2,119,676.29	32° 11' 19.602 N	103° 27' 1.304 W
8,900.0	1.00	105.80	8,854.8	-208.8	738.0	11,687,683.11	2,119,678.82	32° 11' 19.595 N	103° 27' 1.275 W
9,000.0	0.00	0.00	8,954.8	-209.1	738.9	11,687,682.89	2,119,679.66	32° 11' 19.592 N	103° 27' 1.265 W
9,100.0	0.00	0.00	9,054.8	-209.1	738.9	11,687,682.89	2,119,679.66	32° 11' 19.592 N	103° 27' 1.265 W
9,200.0	0.00	0.00	9,154.8	-209.1	738.9	11,687,682.89	2,119,679.66	32° 11' 19.592 N	103° 27' 1.265 W
9,300.0	0.00	0.00	9,254.8	-209.1	738.9	11,687,682.89	2,119,679.66	32° 11' 19.592 N	103° 27' 1.265 W
9,400.0	0.00	0.00	9,354.8	-209.1	738.9	11,687,682.89	2,119,679.66	32° 11' 19.592 N	103° 27' 1.265 W
9,500.0	0.00	0.00	9,454.8	-209.1	738.9	11,687,682.89	2,119,679.66	32° 11' 19.592 N	103° 27' 1.265 W
9,600.0	0.00	0.00	9,554.8	-209.1	738.9	11,687,682.89	2,119,679.66	32° 11' 19.592 N	103° 27' 1.265 W
9,700.0	0.00	0.00	9,654.8	-209.1	738.9	11,687,682.89	2,119,679.66	32° 11' 19.592 N	103° 27' 1.265 W
9,800.0	0.00	0.00	9,754.8	-209.1	738.9	11,687,682.89	2,119,679.66	32° 11' 19.592 N	103° 27' 1.265 W
9,900.0	0.00	0.00	9,854.8	-209.1	738.9	11,687,682.89	2,119,679.66	32° 11' 19.592 N	103° 27' 1.265 W
10,000.0	0.00	0.00	9,954.8	-209.1	738.9	11,687,682.89	2,119,679.66	32° 11' 19.592 N	103° 27' 1.265 W
10,100.0	0.00	0.00	10,054.8	-209.1	738.9	11,687,682.89	2,119,679.66	32° 11' 19.592 N	103° 27' 1.265 W
10,200.0	0.00	0.00	10,154.8	-209.1	738.9	11,687,682.89	2,119,679.66	32° 11' 19.592 N	103° 27' 1.265 W
10,300.0	0.00	0.00	10,254.8	-209.1	738.9	11,687,682.89	2,119,679.66	32° 11' 19.592 N	103° 27' 1.265 W
10,400.0	0.00	0.00	10,354.8	-209.1	738.9	11,687,682.89	2,119,679.66	32° 11' 19.592 N	103° 27' 1.265 W
10,500.0	0.00	0.00	10,454.8	-209.1	738.9	11,687,682.89	2,119,679.66	32° 11' 19.592 N	103° 27' 1.265 W
10,600.0	0.00	0.00	10,554.8	-209.1	738.9	11,687,682.89	2,119,679.66	32° 11' 19.592 N	103° 27' 1.265 W
10,672.0	0.00	0.00	10,626.8	-209.1	738.9	11,687,682.89	2,119,679.66	32° 11' 19.592 N	103° 27' 1.265 W
10,700.0	2.80	0.53	10,654.8	-208.4	738.9	11,687,683.57	2,119,679.66	32° 11' 19.599 N	103° 27' 1.265 W
10,800.0	12.79	0.53	10,753.7	-194.8	739.0	11,687,697.12	2,119,679.59	32° 11' 19.733 N	103° 27' 1.264 W
10,900.0	22.79	0.53	10,848.8	-164.3	739.3	11,687,727.63	2,119,679.43	32° 11' 20.035 N	103° 27' 1.261 W
11,000.0	32.78	0.53	10,937.2	-117.8	739.7	11,687,774.19	2,119,679.19	32° 11' 20.496 N	103° 27' 1.256 W
11,100.0	42.78	0.53	11,016.1	-56.6	740.3	11,687,835.38	2,119,678.88	32° 11' 21.101 N	103° 27' 1.249 W
11,200.0	52.78	0.53	11,083.2	17.4	741.0	11,687,909.34	2,119,678.50	32° 11' 21.833 N	103° 27' 1.241 W
11,300.0	62.77	0.53	11,136.5	101.9	741.7	11,687,993.83	2,119,678.06	32° 11' 22.669 N	103° 27' 1.232 W
11,400.0	72.77	0.53	11,174.3	194.3	742.6	11,688,086.27	2,119,677.59	32° 11' 23.584 N	103° 27' 1.222 W
11,500.0	82.76	0.53	11,195.4	291.9	743.5	11,688,183.88	2,119,677.09	32° 11' 24.550 N	103° 27' 1.211 W
11,572.4	90.00	0.53	11,200.0	364.1	744.2	11,688,256.10	2,119,676.71	32° 11' 25.265 N	103° 27' 1.204 W
11,600.0	90.00	0.52	11,200.0	391.7	744.4	11,688,283.68	2,119,676.57	32° 11' 25.538 N	103° 27' 1.201 W
11,700.0	90.00	0.50	11,200.0	491.7	745.3	11,688,383.68	2,119,676.03	32° 11' 26.527 N	103° 27' 1.190 W
11,800.0	90.00	0.48	11,200.0	591.7	746.2	11,688,483.68	2,119,675.45	32° 11' 27.517 N	103° 27' 1.180 W
11,900.0	90.00	0.46	11,200.0	691.7	747.0	11,688,583.68	2,119,674.84	32° 11' 28.507 N	103° 27' 1.170 W

Centennial Resource Dev

Survey Report - Geographic

Company:	NEW MEXICO	**Local Co-ordinate Reference:**	Well SHEBA FEDERAL COM 507H
Project:	LEA	**TVD Reference:**	RKB=3460.9+25 @ 3485.9usft
Site:	SOLOMON FEDERAL	**MD Reference:**	RKB=3460.9+25 @ 3485.9usft
Well:	SHEBA FEDERAL COM 507H	**North Reference:**	True
Wellbore:	SHEBA FEDERAL COM 507H	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP0	**Database:**	Compass

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
12,000.0	90.00	0.44	11,200.0	791.7	747.8	11,688,683.68	2,119,674.19	32° 11' 29.496 N	103° 27' 1.161 W
12,100.0	90.00	0.42	11,200.0	891.7	748.6	11,688,783.67	2,119,673.50	32° 11' 30.486 N	103° 27' 1.152 W
12,200.0	90.00	0.40	11,200.0	991.7	749.3	11,688,883.67	2,119,672.78	32° 11' 31.476 N	103° 27' 1.144 W
12,300.0	90.00	0.38	11,200.0	1,091.7	750.0	11,688,983.67	2,119,672.03	32° 11' 32.465 N	103° 27' 1.136 W
12,400.0	90.00	0.36	11,200.0	1,191.7	750.6	11,689,083.67	2,119,671.23	32° 11' 33.455 N	103° 27' 1.129 W
12,500.0	90.00	0.34	11,200.0	1,291.7	751.2	11,689,183.66	2,119,670.40	32° 11' 34.445 N	103° 27' 1.121 W
12,600.0	90.00	0.32	11,200.0	1,391.7	751.8	11,689,283.66	2,119,669.54	32° 11' 35.434 N	103° 27' 1.115 W
12,700.0	90.00	0.30	11,200.0	1,491.7	752.3	11,689,383.66	2,119,668.64	32° 11' 36.424 N	103° 27' 1.108 W
12,800.0	90.00	0.28	11,200.0	1,591.7	752.8	11,689,483.65	2,119,667.70	32° 11' 37.413 N	103° 27' 1.103 W
12,900.0	90.00	0.26	11,200.0	1,691.7	753.3	11,689,583.65	2,119,666.73	32° 11' 38.403 N	103° 27' 1.097 W
13,000.0	90.00	0.24	11,200.0	1,791.7	753.7	11,689,683.64	2,119,665.72	32° 11' 39.393 N	103° 27' 1.092 W
13,100.0	90.00	0.22	11,200.0	1,891.7	754.1	11,689,783.64	2,119,664.68	32° 11' 40.382 N	103° 27' 1.087 W
13,200.0	90.00	0.20	11,200.0	1,991.7	754.5	11,689,883.63	2,119,663.60	32° 11' 41.372 N	103° 27' 1.083 W
13,300.0	90.00	0.17	11,200.0	2,091.7	754.8	11,689,983.62	2,119,662.48	32° 11' 42.362 N	103° 27' 1.079 W
13,400.0	90.00	0.15	11,200.0	2,191.7	755.1	11,690,083.62	2,119,661.33	32° 11' 43.351 N	103° 27' 1.076 W
13,500.0	90.00	0.13	11,200.0	2,291.7	755.3	11,690,183.61	2,119,660.14	32° 11' 44.341 N	103° 27' 1.073 W
13,600.0	90.00	0.11	11,200.0	2,391.7	755.6	11,690,283.60	2,119,658.92	32° 11' 45.331 N	103° 27' 1.071 W
13,700.0	90.00	0.09	11,200.0	2,491.7	755.7	11,690,383.59	2,119,657.66	32° 11' 46.320 N	103° 27' 1.068 W
13,800.0	90.00	0.07	11,200.0	2,591.7	755.9	11,690,483.59	2,119,656.37	32° 11' 47.310 N	103° 27' 1.067 W
13,900.0	90.00	0.05	11,200.0	2,691.7	756.0	11,690,583.58	2,119,655.04	32° 11' 48.300 N	103° 27' 1.065 W
14,000.0	90.00	0.03	11,200.0	2,791.7	756.1	11,690,683.57	2,119,653.67	32° 11' 49.289 N	103° 27' 1.065 W
14,100.0	90.00	0.01	11,200.0	2,891.7	756.1	11,690,783.56	2,119,652.27	32° 11' 50.279 N	103° 27' 1.064 W
14,200.0	90.00	359.99	11,200.0	2,991.7	756.1	11,690,883.55	2,119,650.83	32° 11' 51.269 N	103° 27' 1.064 W
14,300.0	90.00	359.97	11,200.0	3,091.7	756.1	11,690,983.54	2,119,649.35	32° 11' 52.258 N	103° 27' 1.064 W
14,400.0	90.00	359.95	11,200.0	3,191.7	756.0	11,691,083.53	2,119,647.84	32° 11' 53.248 N	103° 27' 1.065 W
14,500.0	90.00	359.93	11,200.0	3,291.7	755.9	11,691,183.51	2,119,646.30	32° 11' 54.238 N	103° 27' 1.066 W
14,600.0	90.00	359.91	11,200.0	3,391.7	755.7	11,691,283.50	2,119,644.72	32° 11' 55.227 N	103° 27' 1.068 W
14,700.0	90.00	359.89	11,200.0	3,491.7	755.6	11,691,383.49	2,119,643.10	32° 11' 56.217 N	103° 27' 1.070 W
14,800.0	90.00	359.87	11,200.0	3,591.7	755.3	11,691,483.47	2,119,641.44	32° 11' 57.207 N	103° 27' 1.073 W
14,900.0	90.00	359.85	11,200.0	3,691.7	755.1	11,691,583.46	2,119,639.76	32° 11' 58.196 N	103° 27' 1.076 W
15,000.0	90.00	359.83	11,200.0	3,791.7	754.8	11,691,683.44	2,119,638.03	32° 11' 59.186 N	103° 27' 1.079 W
15,100.0	90.00	359.81	11,200.0	3,891.7	754.5	11,691,783.43	2,119,636.27	32° 12' 0.175 N	103° 27' 1.083 W
15,192.1	90.00	359.79	11,200.0	3,983.7	754.2	11,691,875.47	2,119,634.62	32° 12' 1.086 N	103° 27' 1.086 W
15,200.0	90.00	359.79	11,200.0	3,991.7	754.1	11,691,883.41	2,119,634.47	32° 12' 1.165 N	103° 27' 1.087 W
15,300.0	90.00	359.79	11,200.0	4,091.7	753.8	11,691,983.40	2,119,632.66	32° 12' 2.155 N	103° 27' 1.091 W
15,400.0	90.00	359.79	11,200.0	4,191.7	753.4	11,692,083.38	2,119,630.85	32° 12' 3.144 N	103° 27' 1.095 W
15,500.0	90.00	359.79	11,200.0	4,291.7	753.0	11,692,183.36	2,119,629.04	32° 12' 4.134 N	103° 27' 1.100 W
15,600.0	90.00	359.79	11,200.0	4,391.7	752.6	11,692,283.35	2,119,627.22	32° 12' 5.124 N	103° 27' 1.104 W
15,700.0	90.00	359.79	11,200.0	4,491.7	752.3	11,692,383.33	2,119,625.41	32° 12' 6.113 N	103° 27' 1.108 W
15,800.0	90.00	359.79	11,200.0	4,591.7	751.9	11,692,483.31	2,119,623.60	32° 12' 7.103 N	103° 27' 1.113 W
15,900.0	90.00	359.79	11,200.0	4,691.7	751.5	11,692,583.30	2,119,621.79	32° 12' 8.093 N	103° 27' 1.117 W
16,000.0	90.00	359.79	11,200.0	4,791.7	751.1	11,692,683.28	2,119,619.97	32° 12' 9.082 N	103° 27' 1.121 W
16,100.0	90.00	359.79	11,200.0	4,891.7	750.8	11,692,783.27	2,119,618.16	32° 12' 10.072 N	103° 27' 1.126 W
16,200.0	90.00	359.79	11,200.0	4,991.7	750.4	11,692,883.25	2,119,616.35	32° 12' 11.062 N	103° 27' 1.130 W
16,300.0	90.00	359.79	11,200.0	5,091.7	750.0	11,692,983.23	2,119,614.54	32° 12' 12.051 N	103° 27' 1.134 W
16,400.0	90.00	359.79	11,200.0	5,191.7	749.6	11,693,083.22	2,119,612.73	32° 12' 13.041 N	103° 27' 1.138 W
16,500.0	90.00	359.79	11,200.0	5,291.7	749.3	11,693,183.20	2,119,610.91	32° 12' 14.031 N	103° 27' 1.143 W
16,600.0	90.00	359.79	11,200.0	5,391.7	748.9	11,693,283.18	2,119,609.10	32° 12' 15.020 N	103° 27' 1.147 W
16,700.0	90.00	359.79	11,200.0	5,491.7	748.5	11,693,383.17	2,119,607.29	32° 12' 16.010 N	103° 27' 1.151 W
16,800.0	90.00	359.79	11,200.0	5,591.7	748.2	11,693,483.15	2,119,605.48	32° 12' 16.999 N	103° 27' 1.156 W
16,900.0	90.00	359.79	11,200.0	5,691.7	747.8	11,693,583.13	2,119,603.66	32° 12' 17.989 N	103° 27' 1.160 W
17,000.0	90.00	359.79	11,200.0	5,791.7	747.4	11,693,683.12	2,119,601.85	32° 12' 18.979 N	103° 27' 1.164 W
17,100.0	90.00	359.79	11,200.0	5,891.7	747.0	11,693,783.10	2,119,600.04	32° 12' 19.968 N	103° 27' 1.169 W
17,200.0	90.00	359.79	11,200.0	5,991.6	746.7	11,693,883.08	2,119,598.23	32° 12' 20.958 N	103° 27' 1.173 W
17,300.0	90.00	359.79	11,200.0	6,091.6	746.3	11,693,983.07	2,119,596.42	32° 12' 21.948 N	103° 27' 1.177 W

Centennial Resource Dev

Survey Report - Geographic

Company:	NEW MEXICO	**Local Co-ordinate Reference:**	Well SHEBA FEDERAL COM 507H
Project:	LEA	**TVD Reference:**	RKB=3460.9+25 @ 3485.9usft
Site:	SOLOMON FEDERAL	**MD Reference:**	RKB=3460.9+25 @ 3485.9usft
Well:	SHEBA FEDERAL COM 507H	**North Reference:**	True
Wellbore:	SHEBA FEDERAL COM 507H	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP0	**Database:**	Compass

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
17,400.0	90.00	359.79	11,200.0	6,191.6	745.9	11,694,083.05	2,119,594.60	32° 12' 22.937 N	103° 27' 1.182 W
17,500.0	90.00	359.79	11,200.0	6,291.6	745.5	11,694,183.04	2,119,592.79	32° 12' 23.927 N	103° 27' 1.186 W
17,600.0	90.00	359.79	11,200.0	6,391.6	745.2	11,694,283.02	2,119,590.98	32° 12' 24.917 N	103° 27' 1.190 W
17,700.0	90.00	359.79	11,200.0	6,491.6	744.8	11,694,383.00	2,119,589.17	32° 12' 25.906 N	103° 27' 1.195 W
17,800.0	90.00	359.79	11,200.0	6,591.6	744.4	11,694,482.99	2,119,587.36	32° 12' 26.896 N	103° 27' 1.199 W
17,900.0	90.00	359.79	11,200.0	6,691.6	744.1	11,694,582.97	2,119,585.54	32° 12' 27.886 N	103° 27' 1.203 W
18,000.0	90.00	359.79	11,200.0	6,791.6	743.7	11,694,682.95	2,119,583.73	32° 12' 28.875 N	103° 27' 1.207 W
18,100.0	90.00	359.79	11,200.0	6,891.6	743.3	11,694,782.94	2,119,581.92	32° 12' 29.865 N	103° 27' 1.212 W
18,200.0	90.00	359.79	11,200.0	6,991.6	742.9	11,694,882.92	2,119,580.11	32° 12' 30.855 N	103° 27' 1.216 W
18,300.0	90.00	359.79	11,200.0	7,091.6	742.6	11,694,982.90	2,119,578.29	32° 12' 31.844 N	103° 27' 1.220 W
18,400.0	90.00	359.79	11,200.0	7,191.6	742.2	11,695,082.89	2,119,576.48	32° 12' 32.834 N	103° 27' 1.225 W
18,500.0	90.00	359.79	11,200.0	7,291.6	741.8	11,695,182.87	2,119,574.67	32° 12' 33.824 N	103° 27' 1.229 W
18,600.0	90.00	359.79	11,200.0	7,391.6	741.4	11,695,282.86	2,119,572.86	32° 12' 34.813 N	103° 27' 1.233 W
18,697.0	90.00	359.79	11,200.0	7,488.6	741.1	11,695,379.84	2,119,571.10	32° 12' 35.773 N	103° 27' 1.237 W

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LTP/BHL - SHBA FED C	0.00	0.00	11,200.0	7,513.1	741.0	11,695,404.29	2,119,570.66	32° 12' 36.015 N	103° 27' 1.239 W
- plan misses target center by 24.5usft at 18697.0usft MD (11200.0 TVD, 7488.6 N, 741.1 E)									
- Point									
AC - LTP/BHL - SHE	0.00	0.00	11,200.0	7,488.6	741.1	11,695,379.84	2,119,571.10	32° 12' 35.773 N	103° 27' 1.237 W
- plan hits target center									
- Point									
FTP - SHEBA FED COM	0.00	0.00	11,253.5	-209.1	740.3	11,687,682.92	2,119,681.10	32° 11' 19.592 N	103° 27' 1.249 W
- plan misses target center by 276.1usft at 11146.7usft MD (11049.0 TVD, -23.5 N, 740.6 E)									
- Circle (radius 50.0)									

Checked By: _____ Approved By: _____ Date: _____

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

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

Submit Original to Appropriate District Office

GAS CAPTURE PLAN

Date: 6/04/2020

☐ Original
☒ Amended - Reason for Amendment: New APD

Operator & OGRID No.: Centennial Resource Production, LLC #372165

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Juliet Federal Pad Facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
Sheba Federal Com 506H	Pending	H-27-24S-34E	2339 FNL & 1100 FEL	2220 MCF/D	Neither	New Well
Sheba Federal Com 507H	Pending	H-27-24S-34E	2339 FNL & 1070 FEL	2200 MCF/D	Neither	New Well
Sheba Federal Com 306H	Pending	H-27-24S-34E	2189 FNL & 1070 FEL	1900 MCF/D	Neither	New Well

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to Lucid Energy and will be connected to Lucid's low/high pressure gathering system located in Lea County, New Mexico. It will require 0' of new pipeline to connect the facility to low/high pressure gathering system. Centennial Resource Production, LLC provides (periodically) to Lucid a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, Centennial Resource Production, LLC and Lucid Energy have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Lucid's Red Hills Processing Plant located in Sec. 13, Twn. 24S, Rng. 33E, Lea County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on Lucid's system at that time. Based on current information, it is Centennial's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
  - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease

- Gas flared would be minimal, but might be uneconomical to operate when gas volume declines

- NGL Removal – On lease
  - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

Centennial Resource Development
New Mexico Multi-Well Pad Drilling
Batch Setting Procedures

➢ Avalon and Bone Springs Formations

13-3/8" Surface Casing - CRD intends to preset 13-3/8" casing to a depth approved in the APD. 17-1/2" Surface Holes will be batch drilled by a Surface Preset rig. Appropriate notifications will be made prior to spudding the well, running and cementing casing and prior to skidding to the rig to the next well on pad.

1. Drill 17-1/2" Surface hole to Approved Depth with Surface Preset Rig and perform wellbore cleanup cycles. Trip out and rack back drilling BHA.
2. Run and land 13-3/8" 54.5# J55 BTC casing to depth approved in APD.
3. Cement 13-3/8" casing with cement to surface and floats holding.
4. Cut / Dress 20" Conductor and 13-3/8" casing as needed, weld on Cameron Multi-bowl system with baseplate supported by 20" conductor (see Illustration 1-1 Below). Weld performed per Cameron weld procedure.
5. Test Weld to 70% of 13-3/8" casing collapse or ~ 790psi.
6. Install nightcap with Pressure Gauge on wellhead. Nightcap is shown on final wellhead Stack up Illustration #2-2 page 3.
7. Skid Rig to adjacent well to drill Surface hole.
8. Surface casing test will be performed by the Big Rig in order to allow ample time for Cement to develop 500psi compressive strength. Casing test to 0.22 psi/ft or 1500 psi whichever is greater - not to exceed 70% casing burst.

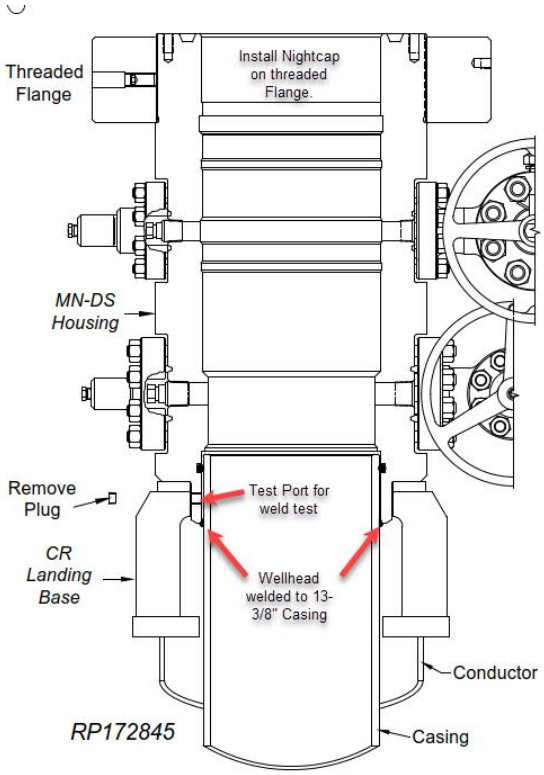


Illustration 1-1

- Intermediate and Production Casing – For all subsequent Intermediate and Production Casing Strings, the Big Rig will remove the nightcap and install and test BOPE. Prior to drill out the 13-3/8" Casing will be tested to 0.22psi/ft or 1500psi whichever is greater. The well will be drilled below 13-3/8" to its intended final TD in the Avalon or Bonesprings formations. Batch drilling will not be executed for casing strings below the 13-3/8". Appropriate notifications will be made prior Testing BOPE, and prior to running/cementing all casing strings. The

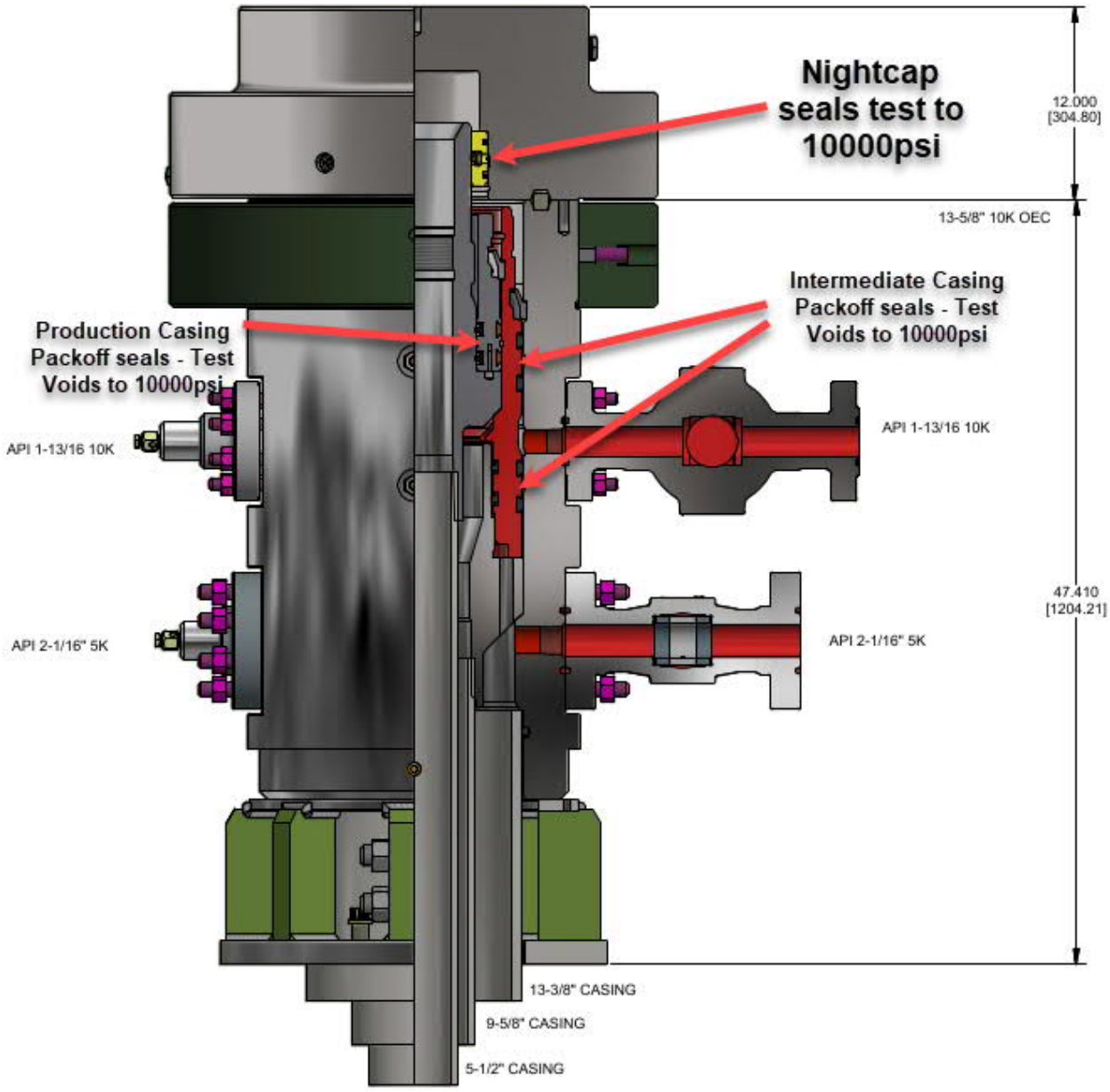
➢ Wolfcamp Formations

13-3/8" Surface Casing - CRD intends to preset 13-3/8" casing to a depth approved in the APD. Surface Holes will be batch set by a Surface Preset rig. Appropriate notifications will be made prior to spudding the well, running and cementing casing and prior to skidding to the rig to the next well on pad.

1. Drill 17-1/2" Surface hole to Approved Depth with Surface Preset Rig and perform wellbore cleanup cycles. Trip out and rack back drilling BHA.
2. Run and land 13-3/8" 54.5# J55 BTC casing to depth approved in APD.
3. Cement 13-3/8" casing with cement to surface and floats holding.
4. Cut / Dress 20" Conductor and 13-3/8" casing as needed, weld on Cameron Multi-bowl system with baseplate supported by 20" conductor (see Illustration 1-1). Weld performed per Cameron weld procedure.
5. Test Weld to 70% of 13-3/8" casing collapse or ~ 790psi.
6. Install nightcap with Pressure Gauge on wellhead. Nightcap is shown on final wellhead Stack up Illustration #2-2 on page 3.
7. Subsequent casing test will be performed by the Big Rig in order to allow ample time for Cement to develop 500psi compressive strength. Casing test to 0.22 psi/ft or 1500 psi whichever is greater - not to exceed 70% casing burst.

Intermediate Casing – CRD intends to Batch set all intermediate casing strings to a depth approved in the APD, typically set 100' above KOP in the 3rd Bonesprings Carbonate. For the last intermediate section drilled on pad, the associated production interval will immediately follow. Appropriate notifications will be made prior Testing BOPE, and prior to running/cementing all casing strings.

1. Big Rig will remove the nightcap and install and test BOPE.
2. Test Surface casing per COA WOC timing (.22 psi/ft or 1500 psi whichever is greater) - not to exceed 70% casing burst. Cement must have achieved 500psi compressive strength prior to test.
3. Install wear bushing then drill out 13-3/8" shoe-track plus 20' and conduct FIT to minimum of the MW equivalent anticipated to control the formation pressure to the next casing point.
4. Drill Intermediate hole to approved casing point. Trip out of hole with BHA to run Casing.
5. Remove wear bushing then run and land Intermediate Casing with mandrel hanger in wellhead.
6. Cement casing to surface with floats holding.
7. Washout stack then run wash tool in wellhead and wash hanger and pack-off setting area.
8. Install pack-off and test void to 10000 psi for 15 minutes. Nightcap shown on final wellhead stack up illustration 2-2 on page 3.
9. Test casing per COA WOC timing (.22 psi/ft or 1500 psi whichever is greater) - not to exceed 70% casing burst. Cement must have achieved 500psi compressive strength prior to test.
10. Install nightcap – skid rig to adjacent well to drill Intermediate hole.



WITH CAP

Illustration 2-2

Production Casing – CRD intends to Batch set all Production casings, except for the last intermediate hole. In this case the production interval will immediately follow the intermediate section on that well. Appropriate notifications will be made prior Testing BOPE, and prior to running/cementing all casing strings.

1. Big Rig will remove the nightcap and install and test BOPE.
2. Install wear bushing then drill Intermediate shoe-track plus 20' and conduct FIT to minimum MW equivalent to control the formation pressure to TD of well.
3. Drill Vertical hole to KOP – Trip out for Curve BHA.
4. Drill Curve, landing in production interval – Trip for Lateral BHA.

5. Drill Lateral / Production hole to Permitted BHL, perform cleanup cycles and trip out to run 5-1/2" Production Casing.
6. Remove wear bushing then run 5-1/2" production casing to TD landing casing mandrel in wellhead.
7. Cement 5-1/2" Production string to surface with floats holding.
8. Run in with wash tool and wash wellhead area – install pack-off and test void to 10000psi for 15 minutes.
9. Install BPV in 5-1/2" mandrel hanger – Nipple down BOPE and install nightcap.
10. Test nightcap void to 10000psi for 30 minutes per illustration 2-2 page 3.
11. Skid rig to adjacent well on pad to drill production hole.

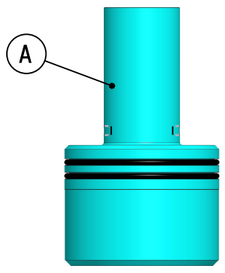
Sheba Fed Com 306H

Centennial Drilling Plan for 3-Casing String Bone Spring

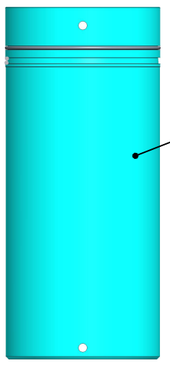
13-3/8" x 9-5/8" x 5-1/2" Casing Design

1. Drill 17-1/2" surface hole to Total Depth with Spudder Rig and perform wellbore cleanup cycles.
2. Run and land 13-3/8" casing to Depth.
3. Cement 13-3/8" casing – cement to surface.
4. Cut / Dress Conductor and 13-3/8" casing as needed, weld on Multi-bowl system with baseplate supported by 20" conductor.
5. Test Weld to 70% of 13-3/8" casing collapse. Place nightcap with Pressure Gauge on wellhead and test seals to 70% of Casing Collapse.
6. Bleed Pressure if necessary and remove nightcap. Nipple up and test BOPE with test plug per Onshore Order 2.
7. Test casing per COA WOC timing (.22 psi/ft or 1500 psi whichever is greater) - not to exceed 70% casing burst. Cement must have achieved 500psi compressive strength prior to test.
8. Install wear bushing then drill out 13-3/8" shoe-track plus 20' and conduct FIT to minimum of the MW equivalent anticipated to control the formation pressure to the next casing point.
9. Drill 12-1/4" Intermediate hole to 9-5/8" casing point.
10. Remove wear bushing then run and land 9-5/8" Intermediate Casing with mandrel hanger in wellhead.
11. Cement 9-5/8 casing – cement to surface.
12. Washout stack then run wash tool in wellhead and wash hanger and pack-off setting area.
13. Install pack-off and test to 5000 psi for 15 minutes.
    a. Test casing per COA WOC timing (.22 psi/ft or 1500 psi whichever is greater) - not to exceed 70% casing burst. Cement must have achieved 500psi compressive strength prior to test.
14. Install wear bushing then drill out 9-5/8" shoe-track plus 20' and conduct FIT to minimum MW equivalent to control the formation pressure to TD of well.
15. Drill 8-3/4" Vertical hole to KOP – Trip out for Curve BHA.
16. Drill 8-3/4" Curve, landing in production interval – Trip for Lateral BHA.
17. Drill 8-1/2" Lateral to Permitted BHL, perform cleanup cycles and trip out to run 5-1/2" Production Casing.
18. Remove wear bushing then run 5-1/2" production casing to TD landing casing mandrel in wellhead.
19. Cement 5-1/2" Production string to surface.
20. Run in with wash tool and wash wellhead area – install pack-off and test to 5000psi for 15 minutes.
21. Install BPV in 5-1/2" mandrel hanger – Nipple down BOPE and install nightcap.
22. Test nightcap void to 5000psi for 30 minutes.

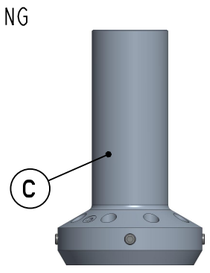
CENTENNIAL
RESOURCE DEVELOPMENT, INC

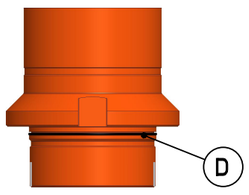


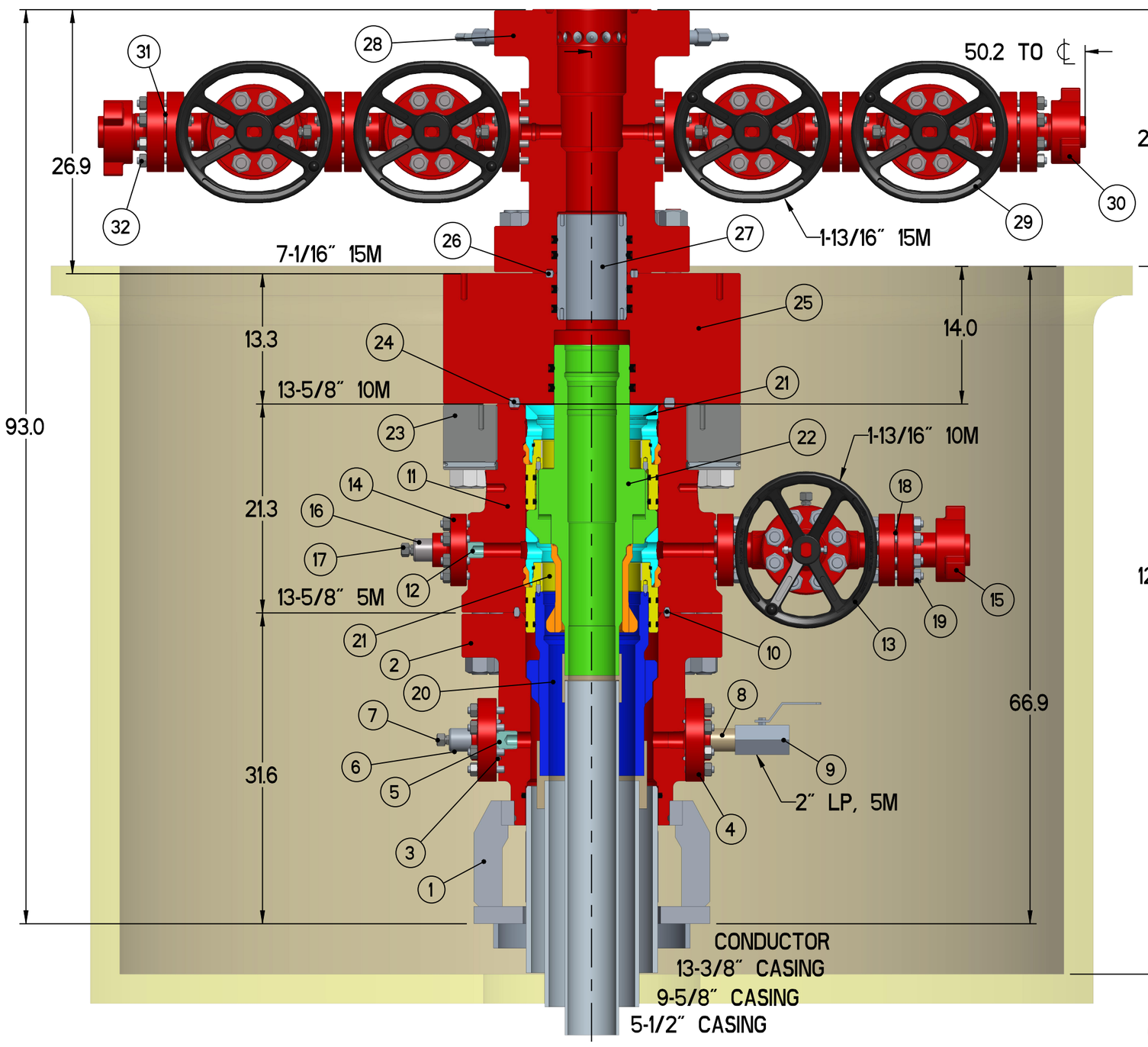
1st STAGE
10K TEST PLUG
(INITIAL TEST)

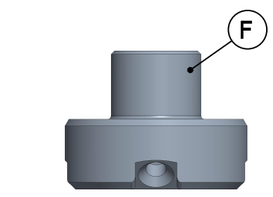


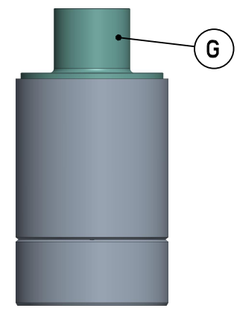
1st STAGE
WEAR BUSHING

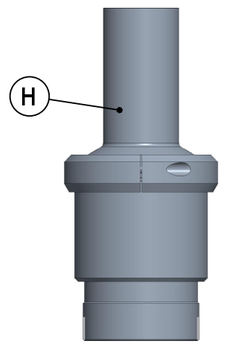


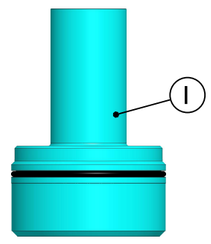




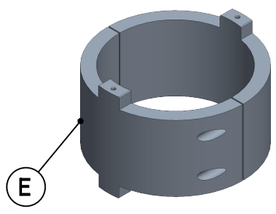


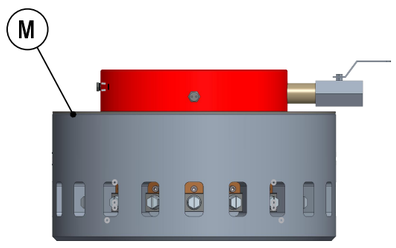


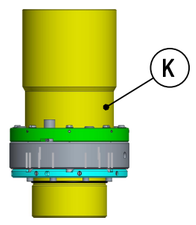


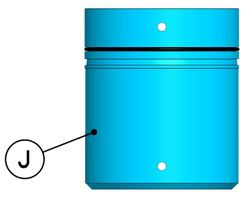


2nd STAGE
10K TEST PLUG
(AFTER INT HANGER SET)









2nd STAGE
WEAR BUSHING
(AFTER INT HANGER SET)

NOTE:
1. ALL DIMENSIONS ARE APPROXIMATE.

ITEM	PARTS DESCRIPTION	PART NUMBERS
1	LANDING BASE ASSEMBLY 24.00 X 18.00 X 1.75	LB-1338CSGX24-03
2	CASING HEAD CC-22 13-5/8 5M X 13-3/8 SOW	CC-CH135X1338SOWSV-00-2
3	RING GASKET OVAL R-24	RG-R24MS
4	COMPANION FLANGE 2-1/16 5000 X 2 LP	CF-25X2LP-2-00-OS
5	VALVE REMOVAL PLUG 10000 PSI	VRP-1900-6A-DD-OS
6	BULLPLUG 2 LP X 1/2 LP	BP-2X12XXH
7	GREASE FITTING 1/2 NPT	GF-12-4140
8	NIPPLE SEAMLESS 2 NPTX 2 NPT X 6.00	NIP-2X6XXH
9	BALL VALVE 2 LP 5000 PSI	B/V-25-CS-OS
10	RING GASKET BX-160	RG-BX160MS
11	INTERMEDIATE HEAD CFB-T 13-5/8 5M X 13-5/8 10M RSF	CFB-IHT135X1310SV-00-2
12	VALVE REMOVAL PLUG 10000 PSI	VRP-1660-6A-DD-OS
13	GATE VALVE 1-13/16 10000 FLANGED	175G-52SB100-LE-OS
14	COMPANION FLANGE 1-13/16 10M X 2 LP	CF-13410X2LP-2-OS
15	FLANGE ADAPTER 1-13/16 10M X 2 FIG 1502	AF-13410X21502-01-2-OS
16	BULLPLUG 2 LP X 1/2 LP	BP-2X12XXH
17	GREASE FITTING 1/2 NPT	GF-12-4140
18	RING GASKET BX-151	RG-BX151MS
19	STUD AND NUT SET 3/4 10UNC X 5-1/4 FULL	S-B7-34X514 / N-2H-34
20	CSG HGR MANDREL CFB 13-5/8 X 9-5/8 PIN BTM	CFB-CHL13X958LC-04
21	PACKOFF BUSHING CFB 13-5/8 X 11.500	CFB-PB13X11050-01-2
22	CSG HGR CFB 13-5/8 X 5-1/2 PIN BTM	CFB-CHU13X512TCBCBPV-00-2
23	THREADED FLANGE RING RSF 13-5/8 10M	RSF-TF1310X1950A-00-2
24	RING GASKET BX-159	RG-BX159MS
25	PACKOFF FLANGE FS 13-5/8 10M X 7-1/16 15M	FS-AF1310X715X758X7-00-3
26	RING GASKET BX-156	RG-BX156MS
27	SEAL-OFF NIPPLE SLICK OD 7.07 X 5.25	SN-707X525-00-3
28	TBG HEAD CTCM-15 7-1/16 15M X 7-1/16 15M	CTCM-TH715X715SVFS7-00-2
29	GATE VALVE 1-13/16 15000 FLANGED	175G-52SB150-T25-3-OS
30	ADAPTER FLANGE 1-13/16 15M X 2 FIG 1502	AF-13415X21502-01-3-OS
31	RING GASKET BX-151	RG-BX151MS
32	STUD AND NUT SET 7/8 9UNC X 6	S-B7-78X6-BSL1 / N-2H-78-BSL1
ITEM	RENTAL TOOLS - PARTS DESCRIPTION	PART NUMBERS
A	RENTAL TEST PLUG CFB 13-5/8 X 4-1/2 IF	L-CFB-TP13X412IF-03
B	RENTAL BORE PROTECTOR CFB 13-5/8	L-CFB-BP13X12053-3075-01
C	RENTAL RETRIEVING TOOL 13-5/8 X 4-1/2 IF	L-CC-RT13-00
D	RENTAL RUNNING TOOL CFB 13-5/8	L-CFB-RT9750AX958BC-00
E	RENTAL TORQUE SLEEVE CFB 13.44X 11.62 X 9.12	L-CFB-RT-TS13-00
F	RENTAL WASH-OUT TOOL 13-5/8 X 4-1/2 IF	L-MW-WT13X412-00
G	RENTAL WASHOUT TOOL CFB 13-5/8 X4-1/2 IF	L-CFB-WT13X412IF-01
H	RENTAL RUNNING AND RETRIEVING TOOL CFB	L-CFB-RT10125AX412IF-00
I	RENTAL TEST PLUG CFB 13-5/8 4-1/2 IF	L-CFB-TP13X412IF-04
J	RENTAL BORE PROTECTOR CFB 13-5/8	L-CFB-BP13X9056-1575-00
K	RENTAL RUNNING TOOL CFB-RT-TT FOR 11 / 13 HGR	CFB-RT-TT512AX512TCBC-00
L	RENTAL THREADED SHOULDER RING RSF	L-RSF-SR1310BX-00-2
M	RSF CAPPING FLANGE	RSF-CF1310BX0ECX9CPX2LP-00

CENTENNIAL RESOURCE PRODUCTION, LLC
13-3/8" X 9-5/8" X 5-1/2" , 15M
CFB-T WELLHEAD SYSTEM
QUOTE: HOU - 151185

DWN	CB	12/16/19	
CHK			
APPR			
	BY	DATE	

Worldwide Expertise - Global Strength

DRAWING NUMBER
WH-20235

REF: | COMMONSPACE | PROJ: X | MODEL: WH-20235-BOM | DWG: WH-20235-BOM

CENTENNIAL | WBD

Well : Sheba Federal Com 306H
Area : Solomon **FM tgt:** 1st BSS
County : Lea **State** : NM
Location : Lot H Section 27, T24S, R34E; 2,189' FNL & 1,070' FEL
BHL : Lot A, Section 27, T24S, R34E; 100' FNL & 330' FWL
KB Elev : 3,486.7' MSL **KB** : 25' AGL **GL Elev** : 3,461.7' MSL

CENTENNIAL RESOURCE DEVELOPMENT, INC

Surface Casing
Lead 100% Excess - TOC 0' 13.5ppg w/680 sx
Tail 100% Excess – TOC 850' 14.8ppg w/525sx

TUBULAR DETAIL

	Size	Lbs./ft	Grade	Cxn	From	To	Burst	Cllps
Conductor	20"	94	H-40		0'	120'	1,530	520
Surface	13.375"	54.5	J-55	BTC	0'	1,175'	2,730	1,130
Intermediate 1	9.625"	40	J-55	LTC	0'	5,500'	3,950	2,570
Production	5.5"	20.0	P110 RY	TCBC-HT	0'	TD	12,640	12,780

17 ½"

12 ¼" PDC

8 ¾" PDC

8 ½" PDC

1,079' **Surface** — TD at 1,175'

1,334' Rustler

Salado

Int.1
I1 Lead 150% Excess – TOC 0' 10.7ppg w/ 1,150sx
I1 Tail 20% Excess – TOC 4,847' 14.8ppg w/ 150sx

5,479' **Intermediate #1** — TD at 5,500' MD

Lamar

6,421' Cherry Canyon

7,894' Brushy Canyon

9,351' Bone Spring Lime

9,377' Avalon Shale

10,339' First Bone Spring Sand

KOP at 9,900.5' MD / 9,931' TVD

EOB 10,890.5' MD / 10,514' TVD
90.0° INC

TD at 17,656.3' MD / 10,514' TVD

1,175' to 5,500'
10.0 ppg
28-32 vis
Brine

5,500' to 7,900'
8.8 – 9.2 ppg
28-30 vis
Cut brine

7,900' to 10,682'
9.0 – 9.4 ppg
28-30 vis
Cut brine

10,682' to TD
9.2 – 9.8 ppg
OBM

Production
Lead 30% Excess – TOC 0' 10.6ppg w/ 1,050 sx
Tail 25% Excess – TOC KOP 10,666' 14.2ppg w/ 1,900sx

GEOLOGIC PROG

CENTENNIAL RESOURCE DEVELOPMENT, LLC

WELL NAME	Sheeba Federal Com 306H				8/26/2020			
AREA	Solomon			API				
HZ TARGET	SBSG Sand			WI %				
LAT LENGTH	7,700			AFE#				
TRRC PERMIT				COUNTY	Lea			

	TWNP	RNG	SECTION	FOOTAGE	COMMENT
SHL	24S	34E	27	2189' FNL, 1070' FEL	On lease. Drill S to N.
FTP/PP	24S	34E	27	2548' FNL, 1070' FEL	
LTP	24S	34E	22	100' FNL, 330' FEL	
BHL	24S	34E	22	100' FNL, 330' FEL	

GROUND LEVEL	3,464'	RIG KB	25'	KB ELEV	3,489'		
GEOLOGIST	Isabel Harper	isabel.harper@cdevinc.com	(303) 589-8841				

LOGGING	No open hole logging. MWD GR from drill out of surface casing to TD.
MUDLOGGING	Standard mud logging and mud gas detection. Mud loggers on from drill out of surface casing to TD.

FORMATION	TVD	SSTVD	THICKNESS	FINAL MD	FINAL TVD	DELTA
Rustler	1,079'	2,410'	4,375'			
Salado	1,334'	2,155'	4,145'			
Lamar	5,454'	-1,965'	25'			
Bell Canyon	5,479'	-1,990'	942'			
Cherry Canyon	6,421'	-2,932'	240'			
Manzanita Lime	6,661'	-3,172'	1,233'			
Brushy Canyon	7,894'	-4,405'	1,457'			
Bone Spring Lime	9,351'	-5,862'	26'			
Avalon	9,377'	-5,888'	962'			
FBSG Sand	10,339'	-6,850'	221'			
SBSG Shale	10,560'	-7,071'	383'			
SBSG Sand	10,943'	-7,454'	448'			
TBSG Carb	11,391'	-7,902'				
Target Top at 0'VS	10,490'	-7,001'	47'			
Target Base at 0' VS	10,537'	-7,048'				
HZ TARGET AT 0' VS	10,514'	-7,025'				

TARGET: KBTVD = at 10,514' VS, INC = 90.0 deg
Target Window +10/-10'

COMMENT:

GEOLOGIC PROG

OFFSET TYPE WELLS

CENTENNIAL RESOURCE DEVELOPMENT, LLC

	DRILLING WELL	Sheeba Federal Com 306H			8/26/2020	
	HZ TARGET	SBSG Sand		AREA	Solomon	
	PRIMARY TYPE LOG				SECONDARY TYPE LOG	
	Buff '22' 1				Solomon Fed Com 709H	
	30-025-28235				30-025-45375	
LOCATION	24S/34E/22;1980' FSL/1980' FWL				24S/34E/22; 300' FSL/1505' FEL	
DISTANCE	5100' NW of SHL				2610' N of SHL	
DIRECTION SURVEY	N				N	
KB ELEV	3,551'				3,518'	
FORMATION	TVD	SSTVD	DELTA		TVD	SSTVD	DELTA
Lamar	5,440'	-1,889'			5,443'	-1,925'	
Bell Canyon	5,488'	-1,937'	906'		5,468'	-1,950'	942'
Cherry Canyon	6,394'	-2,843'	221'		6,410'	-2,892'	240'
Manzanita Lime	6,615'	-3,064'	1,210'		6,650'	-3,132'	1,233'
Brushy Canyon	7,825'	-4,274'	1,452'		7,883'	-4,365'	1,457'
Bone Spring Lime	9,277'	-5,726'	31'		9,340'	-5,822'	26'
Avalon	9,308'	-5,757'	1,033'		9,366'	-5,848'	962'
FBSG Sand	10,341'	-6,790'	231'		10,328'	-6,810'	221'
SBSG Shale	10,572'	-7,021'	357'		10,549'	-7,031'	383'
SBSG Sand	10,929'	-7,378'	458'		10,932'	-7,414'	448'
TBSG Carb	11,387'	-7,836'	800'		11,380'	-7,862'	948'
WFMP	12,187'	-8,636'	221'		12,328'	-8,810'	
WFMP A	12,408'	-8,857'					
Casing Details							
13 3/8	604'						
9 5/8	5,304'						
7	13,282'						
Reservoir Top	10,490'	-6,939'	60'		10,479'	-6,961'	47'
Reservoir Base	10,550'	-6,999'			10,526'	-7,008'	

Comments

GEOLOGIC PROG

OFFSET TYPE WELLS

CENTENNIAL RESOURCE DEVELOPMENT, LLC	DRILLING WELL	Sheeba Federal Com 306H		8/26/2020
	HZ TARGET	SBSG Sand	AREA	Solomon
	PRIMARY TYPE LOG		SECONDARY TYPE LOG	
	Buff '22' 1		Solomon Fed Com 709H	
	30-025-28235		30-025-45375	
LOCATION	24S/34E/22;1980' FSL/1980' FWL		24S/34E/22; 300' FSL/1505' FEL	
DISTANCE	5100' NW of SHL		2610' N of SHL	
DIRECTION SURVEY	N		N	
KB ELEV	3,551'		3,518'	

LOCATION & STRUCTURE MAP

WFMP SS Structure Map

GEOLOGIC PROG

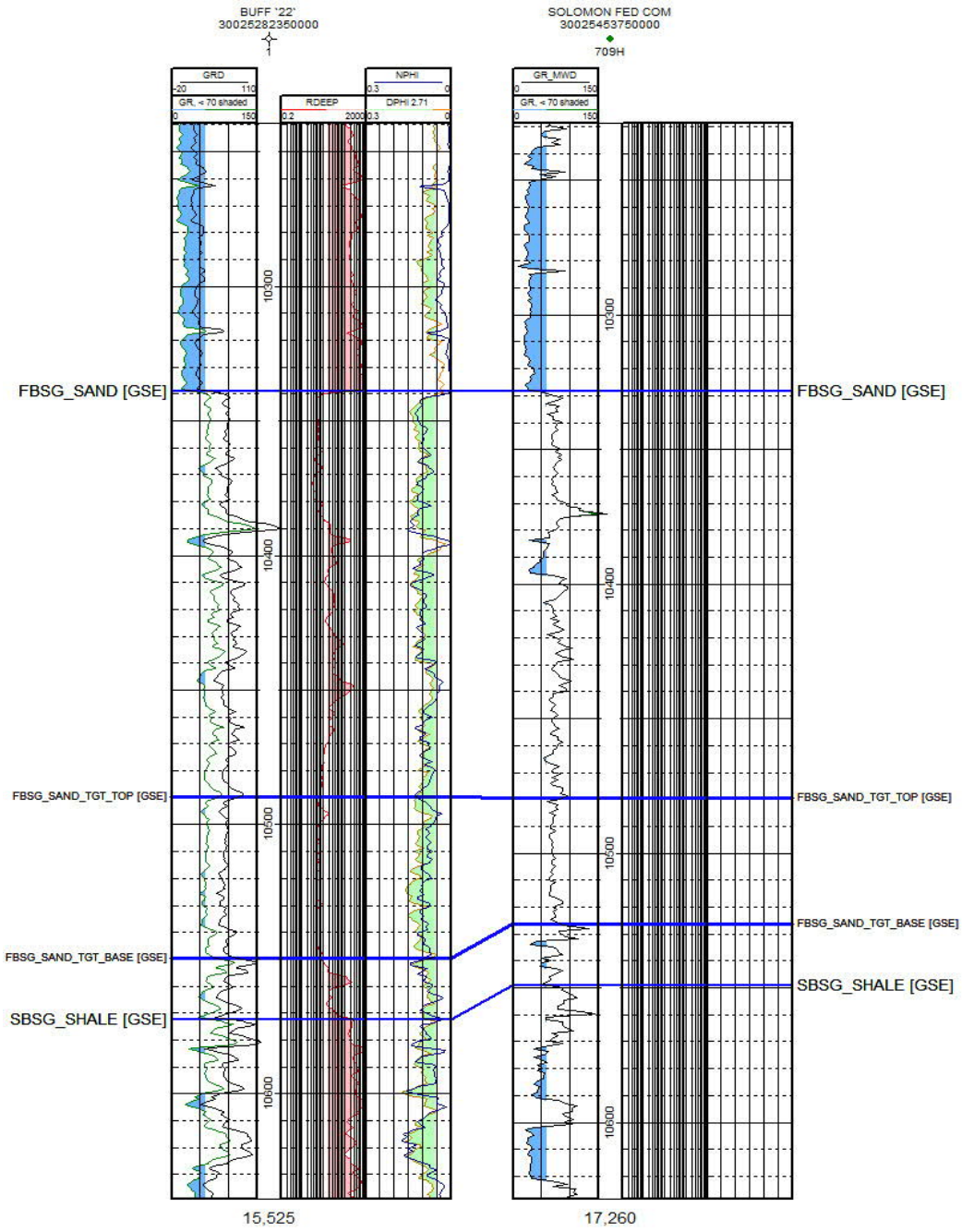
OFFSET TYPE SECTION

CENTENNIAL RESOURCE DEVELOPMENT, LLC

DRILLING WELL	Sheeba Federal Com 306H		8/26/2020
HZ TARGET	SBSG Sand	AREA	SBSG Sand

	PRIMARY TYPE LOG	SECONDARY TYPE LOG
	Buff '22' 1	Solomon Fed Com 709H
	30-025-28235	30-025-45375
LOCATION	24S/34E/22;1980' FSL/1980' FWL	24S/34E/22; 300' FSL/1505' FEL
DISTANCE	5100' NW of SHL	2610' N of SHL
DIRECTION SURVEY	N	N
KB ELEV	3,551'	3,518'

Type Log and Targer Zone



GEOLOGIC PROG

MUD LOG DISTRIBUTION DETAILS

CENTENNIAL RESOURCE DEVELOPMENT, LLC

WELL NAME	Sheeba Federal Com 306H			8/26/2020
AREA	Solomon		API	
HZ TARGET	SBSG Sand		WI %	
LAT LENGTH	7700		AFE#	
TRRC PERMIT			COUNTY	Lea

GEOLOGIST	Isabel Harper	isabel.harper@cdevinc.com	(303) 589-8841

Mud Logging Company		
TBD		
TBD	TBD	TBD
Contact 2	email	phone
Contact 3	email	phone

Daily distribution data requirements and protocol

geodata@cdevinc.com; joe.woodske@cdevinc.com; drilling@cdevinc.com; dawn.billesbach@cdevinc.com, Andrew.welshhans@cdevinc.com; nick.daniele@cdevinc.com;Isabel.Harper@cdevinc.com

Daily email distribution list

Final distribution data requirements

Final distribution list

Contact Information	Reports	Hard Copies	Digital data	Cuttings
Centennial Resource Development, c/o Joe Woodske, 1001 17th street, Suite 1800,	email final set	2 copies of 5" MD Vertical, 2 copies of 5" Horizontal and	email final set	
SCAL, Inc., 2613 South County Road 1257, Midland, TX 79706				No Dried Samples to be Collected
MWD Only: Centennial Resource Development, c/o Sarah Ferreyros, 1001 17th street, Suite 1800, Denver, CO, 80202	email final set	2 copies of the 5" MD vertical logs 2 copies of the 5" horizontal logs	email final set	

Project Geologist:	Isabel Harper	Production:	Brandon Morin
Operations Geologist:	Joe Woodske	Surface Land:	Bailey Joplim
Drilling:	Ronny Hise	Mineral Land:	Gavin Smith

Centennial Resource Development - Well Control Plan

A. Component and Preventer Compatibility Table

Component	OD (inches)	Preventer	RWP
Drillpipe	5	Upper VBR: 3.5 – 5.5 Lower VBR: 3.5 – 5.5	10M
Heavyweight Drillpipe	5	Upper VBR: 3.5 – 5.5 Lower VBR: 3.5 – 5.5	10M
Drill collars and MWD tools	6 ¾	Annular	5M
Mud Motor	6 ¾	Annular	5M
Production Casing	5-1/2	Upper VBR: 3.5 – 5.5 Lower VBR: 3.5 – 5.5	10M
All	0 – 13 5/8	Annular	5M
Open-hole	-	Blind rams	10M

VBR = Variable Bore Rams

RWP = Rated Working Pressure

MWD = Measurement While Drilling (directional tools)

B. Well Control Procedures

I. General Procedures While Drilling:

1. Sound alarm (alert crew).
2. Space out drill-string.
3. Shut down pumps and stop rotary.
4. Open HCR
5. Shut-in well – utilizing upper VBRs.
6. Close choke
7. Confirm shut-in.
8. Notify rig manager and Centennial company representative.
9. Call Centennial drilling engineer
10. Read and record
    - I. Shut-in drillpipe pressure (SIDPP) and shut-in casing pressure (SCIP).
    - II. Pit gain
    - III. Time
11. Regroup, identify forward plan

II. General Procedure While Tripping

1. Sound alarm (alert crew).
2. Stab full opening safety valve and close
3. Space out drillstring.
4. Open HCR
5. Shut-in well – utilizing upper VBRs
6. Close choke
7. Confirm shut-in.
8. Notify rig manager and Centennial company representative.
9. Call Centennial drilling engineer
10. Read and record:
    I. SIDPP AND SICP
    II. Pit gain
    III. Time
11. Regroup and identify forward plan.

III. General Procedure While Running Casing

1. Sound alarm (alert crew)
2. Stab full opening safety valve and close
3. Space out string.
4. Open HCR
5. Shut-in well – utilizing upper VBRs.
6. Close choke
7. Confirm shut-in.
8. Notify rig manager and Centennial company representative.
9. Call Centennial drilling engineer
10. Read and record:
    I. SIDPP AND SICP
    II. Pit gain
    III. Time
11. Regroup and identify forward plan.

IV. General Procedure With No Pipe In Hole (Open Hole)

1. Sound alarm (alert crew)
2. Open HCR
3. Shut-in with blind rams
4. Close choke
5. Confirm shut-in
6. Notify rig manager and Centennial company representative.
7. Call Centennial drilling engineer
8. Read and record:
    I. SIDPP AND SICP
    II. Pit gain
    III. Time
9. Regroup and identify forward plan.

V. General Procedures While Pulling BHA Thru BOP Stack

1. **Prior to pulling last joint of drillpipe thru stack**:
   - I. Perform flow check, if flowing
     - a. Sound alarm, alert crew
     - b. Stab full opening safety valve and close
     - c. Space out drillstring with tool joint just beneath the upper pipe ram.
     - d. Open HCR
     - e. Shut-in utilizing upper VBRs
     - f. Close choke
     - g. Confirm shut-in
     - h. Notify rig manager and Centennial company representative.
     - i. Call Centennial drilling engineer
     - j. Read and record:
       - i. SIDPP and SICP
       - ii. Pit gain
       - iii. Time
   - II. Regroup and identify forward plan

2. **With BHA in the BOP stack and compatible ram preventer and pipe combo immediately available**:
   - a. Sound alarm, alert crew
   - b. Stab full opening safety valve and close
   - c. Space out drillstring with tool joint just beneath the upper pipe ram.
   - d. Open HCR
   - e. Shut-in utilizing upper VBRs
   - f. Close choke
   - g. Confirm shut-in
   - h. Notify rig manager and Centennial company representative.
   - i. Call Centennial drilling engineer
   - j. Read and record:
     - i. SIDPP and SICP
     - ii. Pit gain
     - iii. Time
   - II. Regroup and identify forward plan

3. **With BHA in the BOP stack and no compatible ram preventer and pipe combo immediately availiable**:
    I. Sound alarm, alert crew.
    II. If possible to pick up high enough, pull string clear of the stack and follow Open Hole (III) scenario.
    III. If impossible to pick up high enough to pull the string clear of the stack:
        a. Stab crossover, make up one joint/stand of drill pipe and full opening safety valve and close.
        b. Space out drillstring with tool joint just beneath the upper pipe ram.
        c. Open HCR
        d. Shut-in utilizing upper VBRs.
        e. Close choke
        f. Confirm shut-in
        g. Notify rig manager and Centennial company representative.
        h. Call Centennial drilling engineer
        i. Read and record:
            i. SIDPP and SICP
            ii. Pit gain
            iii. Time
    IV. Regroup and identify forward plan.

** **If annular is used to shut-in well and pressure builds to OR is expected to get to 50% of RWP, confirm space-out and swap to upper VBRs for shut-in.**

Continental
ContiTech

CONTITECH RUBBER Industrial Kft.	No:QC-DB- 210/ 2014
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QUALITY CONTROL INSPECTION AND TEST CERTIFICATE					CERT. N°:	504	
PURCHASER:	ContiTech Oil & Marine Corp.				P.O. N°:	4500409659	
CONTITECH RUBBER order N°:	538236		HOSE TYPE:	3" ID		Choke and Kill Hose	
HOSE SERIAL N°:	67255		NOMINAL / ACTUAL LENGTH:			10,67 m / 10,77 m	
W.P. 68,9 MPa	10000 psi		T.P. 103,4 MPa	15000 psi	Duration:	60	min.

Pressure test with water at
ambient temperature

See attachment. (1 page)

↑ 10 mm = 10 Min.
→ 10 mm = 20 MPa

COUPLINGS Type	Serial N°		Quality	Heat N°
3" coupling with	9251	9254	AISI 4130	A0579N
4 1/16" 10K API b.w. Flange end			AISI 4130	035608

Not Designed For Well Testing **API Spec 16 C**

Temperature rate:"B"

All metal parts are flawless

WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.

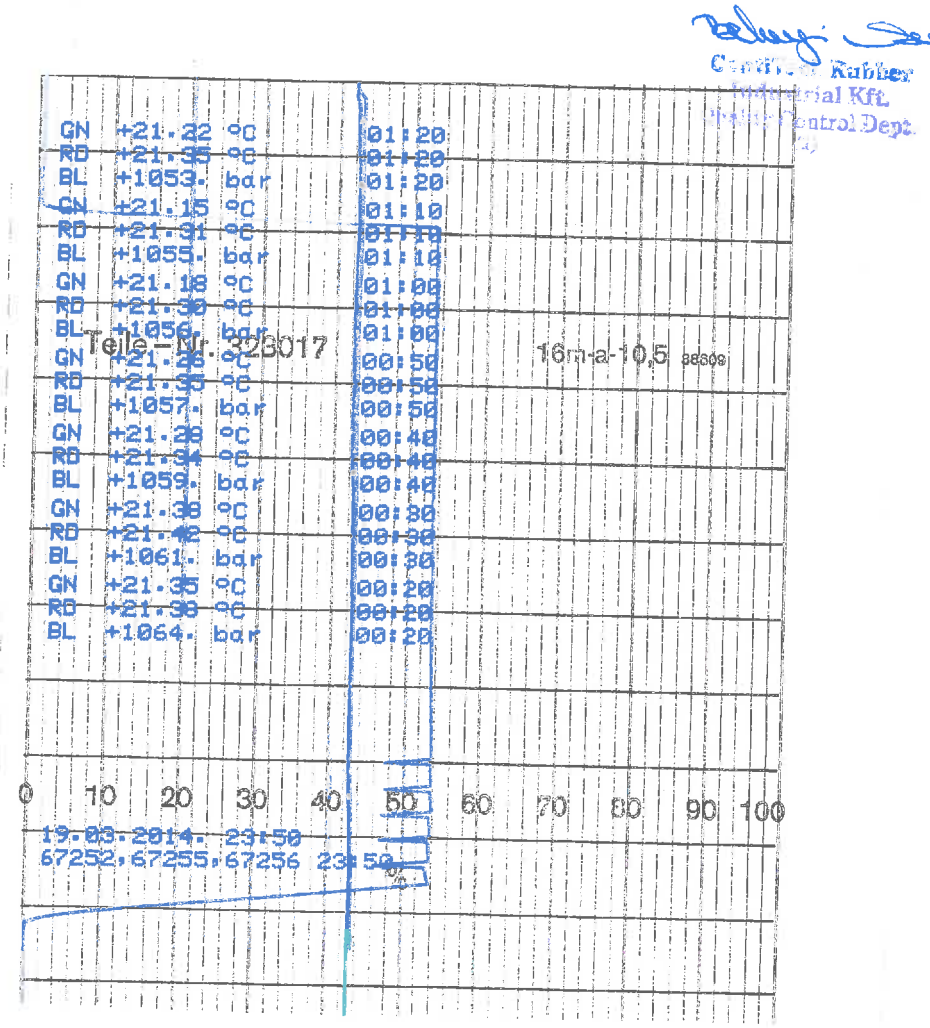
STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.

COUNTRY OF ORIGIN HUNGARY/EU

Date:	Inspector	Quality Control
20. March 2014.		ContiTech Rubber Industrial Kft. Quality Control Dept.

ATTACHMENT OF QUALITY CONTROL INSPECTION AND TEST CERTIFICATE No: 501, 504, 505

Page: 1 / 1



Hose Data Sheet

CRI Order No.	538236
Customer	ContiTech Oil & Marine Corp.
Customer Order No	4500409659
Item No.	1
Hose Type	Flexible Hose
Standard	**API SPEC 16 C**
Inside dia in inches	3
Length	35 ft
Type of coupling one end	FLANGE 4.1/16" 10K API SPEC 6A TYPE 6BX FLANGE C/W BX155 R.GR.SOUR
Type of coupling other end	FLANGE 4.1/16" 10K API SPEC 6A TYPE 6BX FLANGE C/W BX155 R.GR.SOUR
H2S service NACE MR0175	Yes
Working Pressure	10 000 psi
Design Pressure	10 000 psi
Test Pressure	15 000 psi
Safety Factor	2,25
Marking	USUAL PHOENIX
Cover	NOT FIRE RESISTANT
Outside protection	St.steel outer wrap
Internal stripwound tube	No
Lining	OIL + GAS RESISTANT SOUR
Safety clamp	No
Lifting collar	No
Element C	No
Safety chain	No
Safety wire rope	No
Max.design temperature [°C]	100
Min.design temperature [°C]	-20
Min. Bend Radius operating [m]	0,90
Min. Bend Radius storage [m]	0,90
Electrical continuity	The Hose is electrically continuous
Type of packing	WOODEN CRATE ISPM-15

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

SUPO Data Report
03/02/2022

APD ID: 10400057754 **Submission Date:** 06/05/2020

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: SHEBA FEDERAL COM **Well Number:** 306H

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:

Existing_Roads_Map_20200226105357.pdf

Existing Road Purpose: ACCESS **Row(s) Exist?** YES

ROW ID(s)

ID:

Do the existing roads need to be improved? YES

Existing Road Improvement Description: - The operator will improve or maintain existing road in a condition the same as or better than before operations begin. The operator will repair pot holes, clear ditches, repair the crown, etc. All existing structures o the entire access route such as cattle guards, other range improvement projects, culverts, etc. will be properly repaired or replaced if they are damaged or have deteriorated beyond practical use. We will prevent and abate fugitive dust as needed, whether created by vehicular traffic, equipment operations, or wind events. BLM written approval will be acquired before application of surfactants, binding agents, or the dust suppression chemicals on roadways.

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

New_Roads_Maps_20200226124556.pdf

New road type: COLLECTOR

Length: 1663 Feet **Width (ft.):** 65

Max slope (%): 2 **Max grade (%):** 8

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 20

New road access erosion control: Drainage and erosion will be constantly monitored to prevent compromising the road integrity and to protect the surrounding native topography.

New road access plan or profile prepared? Y

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: SHEBA FEDERAL COM **Well Number:** 306H

New road access plan attachment:

New_Roads_Maps_20200226134855.pdf

Access road engineering design? N

Access road engineering design attachment:

Turnout? N

Access surfacing type: OTHER

Access topsoil source: BOTH

Access surfacing type description: Caliche

Access onsite topsoil source depth: 4

Offsite topsoil source description: - Caliche will be hauled from the existing Concho pit located in {SE4 NW4, Sec 6, T24S, R35E}. Pit has been identified for use in the attached exhibit. - Any native caliche on the proposed site can be used by "flipping" the location and using all native soils.
Onsite topsoil removal process: Native soils will be used in the initial construction of the well pad;; Pad will be compacted using fresh water, dust control measures will be implemented as needed; Topsoil will be stored along the East edge of the pad site
Access other construction information:

Access miscellaneous information:

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

Drainage Control

New road drainage crossing: CULVERT

Drainage Control comments: Will be monitored and repaired as necessary

Road Drainage Control Structures (DCS) description: Drainage and erosion will be constantly monitored to prevent compromising the well site integrity, and to protect the surrounding native topography
Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Solomon_Federal_Com_505H___Sheba_506H__507H__306H___405H_SUPO_20200305131233.pdf
Well_Proximity_Map_20200226141533.pdf

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: SHEBA FEDERAL COM **Well Number:** 306H

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:

Juliet_Romeo_Solomon_Package_CTB_1_Comingle_FAC_Layout_20200226145020.pdf
Location_Layout_Plats_20200226144803.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: OTHER

Describe type: Private

Water source use type: STIMULATION

Source latitude: **Source longitude:**

Source datum:

Water source permit type: PRIVATE CONTRACT

Water source transport method: PIPELINE

Source land ownership: PRIVATE

Source transportation land ownership: PRIVATE

Water source volume (barrels): 35000 **Source volume (acre-feet):** 4.51125837

Source volume (gal): 1470000

Water source and transportation map:

Water_Source_and_Transportation_Map_20200226150053.pdf

Water source comments:

New water well? N

New Water Well Info

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

Well target aquifer:

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

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: SHEBA FEDERAL COM **Well Number:** 306H

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: Concho Caliche Pit in the SENW of Sec. 6, T25S, 35E

Construction Materials source location attachment:

Caliche_Source_and_Route_Map_20200226150354.pdf

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: drill cuttings (12261 cubic feet/well)

Amount of waste: 12261 gallons

Waste disposal frequency : One Time Only

Safe containment description: Drill cuttings will be properly disposed of into steel tanks and taken to an NMOCD approved disposal facility

Safe containmant attachment:

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

Disposal type description:

Disposal location description: NMOCD approved disposal facility (Sundance or R360 Environmental)

Waste type: DRILLING

Waste content description: Brine water based drilling fluid

Amount of waste: 1500 barrels

Waste disposal frequency : Monthly

Safe containment description: steel tanks with plastic-lined containment berms

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: SHEBA FEDERAL COM **Well Number:** 306H

Safe containmant attachment:

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

Disposal location description: state approved disposal facility (Sundance services or R360 Environmental)

Waste type: DRILLING

Waste content description: Fresh water based drilling fluid

Amount of waste: 1500 barrels

Waste disposal frequency : Weekly

Safe containment description: Steel tanks with plastic-lined containment berms

Safe containmant attachment:

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

Disposal location description: NMOCD approved disposal facility, Any public disposal (SWD).

Waste type: SEWAGE

Waste content description: Grey water/human waste

Amount of waste: 5000 gallons

Waste disposal frequency : Weekly

Safe containment description: Approved waste storage tanks with containment

Safe containmant attachment:

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

Disposal location description: Using water fleet to process sewage; the disposal fluid will go to any public disposal, state approved disposal facility

Waste type: GARBAGE

Waste content description: General trash/garbage

Amount of waste: 5000 pounds

Waste disposal frequency : Weekly

Safe containment description: Enclosed trash trailer (Lea County Landfill, outside of Eunice)

Safe containmant attachment:

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

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: SHEBA FEDERAL COM **Well Number:** 306H

Disposal location description: state approved disposal facility

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? Y

Description of cuttings location Drill cuttings will be properly disposed of into a steel tank and taken to an NMOCD approved disposal facility.

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

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

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

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Location_Layout_Plats_20200226151303.pdf

Comments: o Exterior well pad dimensions are 565 x 900. o Interior well pad dimensions from point of entry (well head) of the westernmost well are N-800, S-175, W-265, E-300. The length to the east includes 30 spacing for next well on multi-well

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: SHEBA FEDERAL COM **Well Number:** 306H

pad (three wells). Total disturbance area needed for construction of well pad will be 12.5 acres. o Top soil placement is on the south side of pad. Interim reclamation is planned to be completed upon completion of well and evaluation of best management practices. (Reclamation plat attached.

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: Solomon/Sheba Federal

Multiple Well Pad Number: 1

Recontouring attachment:

Reclamation_Plat_20200227141337.pdf

Drainage/Erosion control construction: Drainage and erosion will be constantly monitored to prevent compromising the well site integrity, and to protect the surrounding native topography.

Drainage/Erosion control reclamation: Upon reclamation, well site will be returned to its native contour. Water breaks will be added if needed, to prevent unnatural erosion and loss of vegetation.

Well pad proposed disturbance (acres): 12.862

Well pad interim reclamation (acres): 5.047

Well pad long term disturbance (acres): 7.815

Road proposed disturbance (acres): 0.9814

Road interim reclamation (acres): 0.6002

Road long term disturbance (acres): 0.3812

Powerline proposed disturbance (acres): 0

Powerline interim reclamation (acres): 0

Powerline long term disturbance (acres): 0

Pipeline proposed disturbance (acres):

Pipeline interim reclamation (acres): 0

Pipeline long term disturbance (acres): 0

Other proposed disturbance (acres): 0

Other interim reclamation (acres): 0

Other long term disturbance (acres): 0

Total proposed disturbance: 13.8434

Total interim reclamation: 5.6472

Total long term disturbance: 8.196200000000001

Disturbance Comments:

Reconstruction method: Come back in with heavy equipment, remove caliche in the reclamation area, and replace with native topsoil. Reconstruction of pad will occur once all wells on location have been drilled and completed.

Topsoil redistribution: Surface disturbance will be limited to well site surveyed dimensions. Topsoil will be stored along the East edge of the pad site.

Soil treatment: Native soils will be used in the initial construction of the well pad. Pad will be compacted using fresh water, dust control measures will be implemented as needed.

Existing Vegetation at the well pad: Mesquite, shrubs, and grass (needle-grass, burro grass, dropseed). Surface disturbance will be limited to well site surveyed dimensions. Topsoil will be stored along the East edge of the pad site.

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: Mesquite, shrubs, and grass (needle-grass, burro grass, dropseed). Will be windrowed to the edge of the disturbance and be utilized as a barrier from water run-off.

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: Mesquite, shrubs, and grass (needle-grass, burro grass, dropseed).

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: Mesquite, shrubs, and grass (needle-grass, burro grass,

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: SHEBA FEDERAL COM **Well Number:** 306H

dropseed).

Existing Vegetation Community at other disturbances attachment:

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed Summary

Total pounds/Acre:

Seed Type	Pounds/Acre

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: Jamon **Last Name:** Hohensee

Phone: (432)315-0132 **Email:** jamon.hohensee@cdevinc.com

Seedbed prep: Prepare a 3-5 inch deep seedbed, with the top 3-4 inches consisting of topsoil.

Seed BMP: Seeding will be done in the proper season, and monitored for the re-establishment of native vegetation.

Seed method: Broadcast

Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: Spray for noxious weeds and bare ground as needed.

Weed treatment plan attachment:

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: SHEBA FEDERAL COM **Well Number:** 306H

Monitoring plan description: All disturbed areas will be closely monitored for any primary or secondary noxious weeds. Should any be found, chemical spraying in accordance with state regulations will be implemented.
Monitoring plan attachment:

Success standards: No primary or secondary noxious weeds will be allowed. Vegetation will be returned to its native standard.
Pit closure description: No open pits will be constructed.

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT,PRIVATE OWNERSHIP

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

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

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: PRIVATE OWNERSHIP

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: SHEBA FEDERAL COM **Well Number:** 306H

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

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

Fee Owner: Quail Ranch, LLC

Phone: (432)688-6631

Fee Owner Address: One Concho Center, 600 W. Illinois Ave.

Email: sspillers@concho.com

Surface use plan certification: NO

Surface use plan certification document:

Surface access agreement or bond: AGREEMENT

Surface Access Agreement Need description: Lea, NM County Clerk Book: 2144, Page 514

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Section 12 - Other Information

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

ROW Type(s):

ROW Applications

SUPO Additional Information:

Use a previously conducted onsite? N

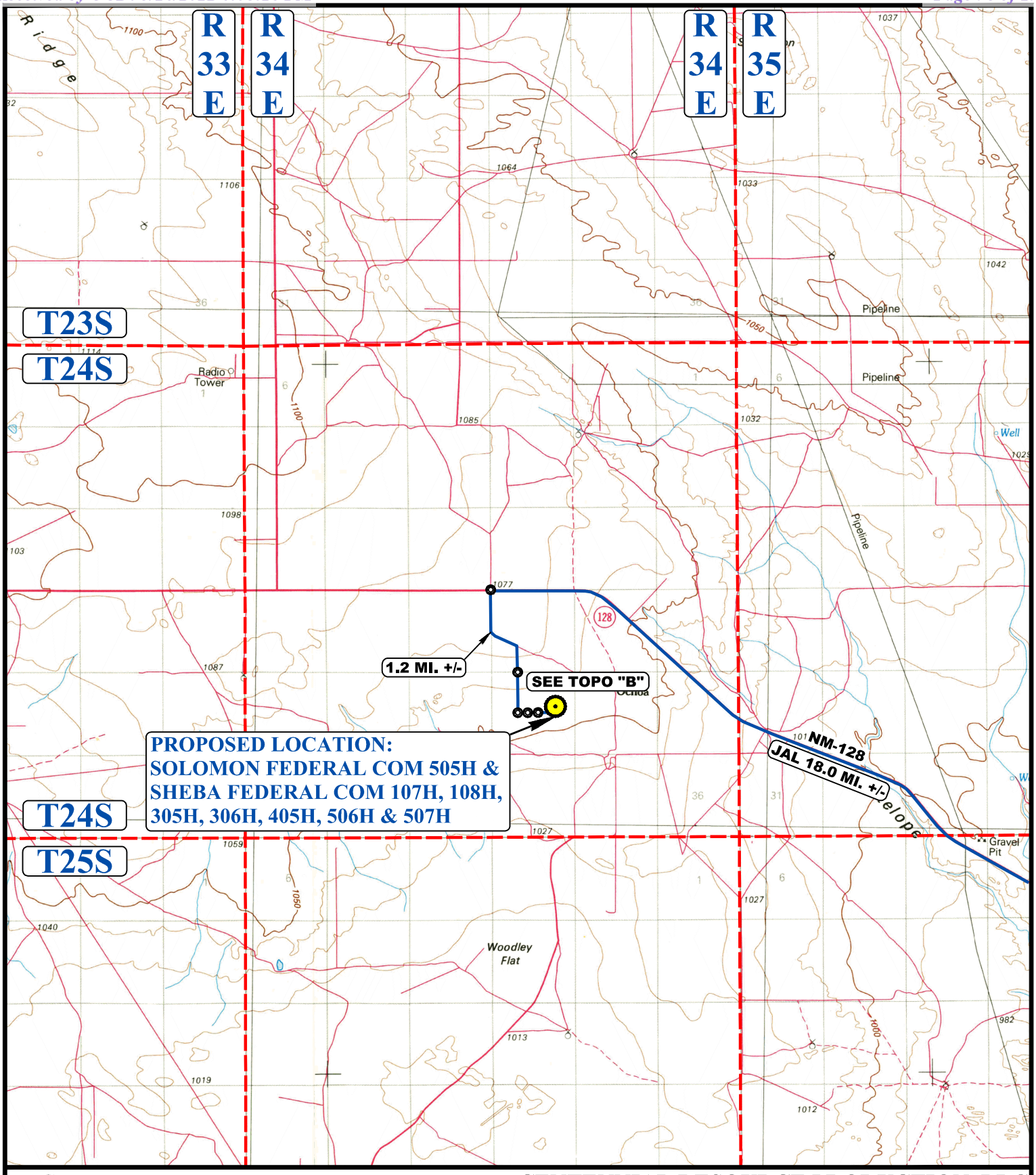
Previous Onsite information:

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: SHEBA FEDERAL COM **Well Number:** 306H

Other SUPO Attachment

Solomon_Federal_Com_505H___Sheba_506H__507H__306H___405H_SUPO_20200228142700.pdf



LEGEND:

PROPOSED LOCATION

N

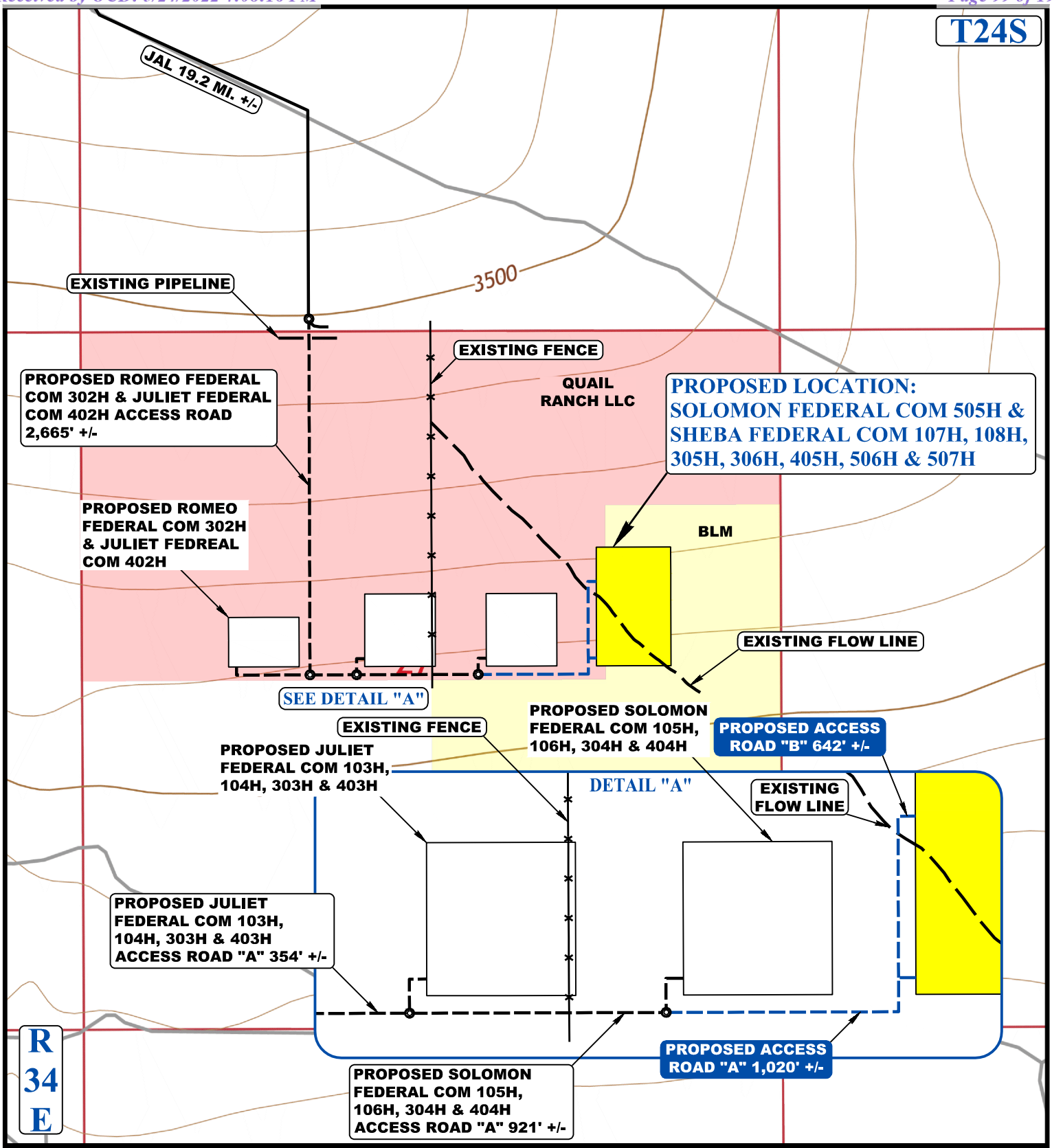
CENTENNIAL RESOURCE PRODUCTION, LLC

SOLOMON FEDERAL COM 505H & SHEBA FEDERAL
COM 107H, 108H, 305H, 306H, 405H, 506H & 507H
SE 1/4 NE 1/4, SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C.	08-23-19	SCALE
DRAWN BY	S.T.O.	09-12-19	1 : 100,000
ACCESS ROAD MAP			TOPO A

UINTAH ENGINEERING & LAND SURVEYING

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



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
- PROPOSED ROAD (SERVICING OTHER WELLS)
- EXISTING PIPELINE
- EXISTING FLOW LINE
- EXISTING FENCE

UINTAH ENGINEERING & LAND SURVEYING

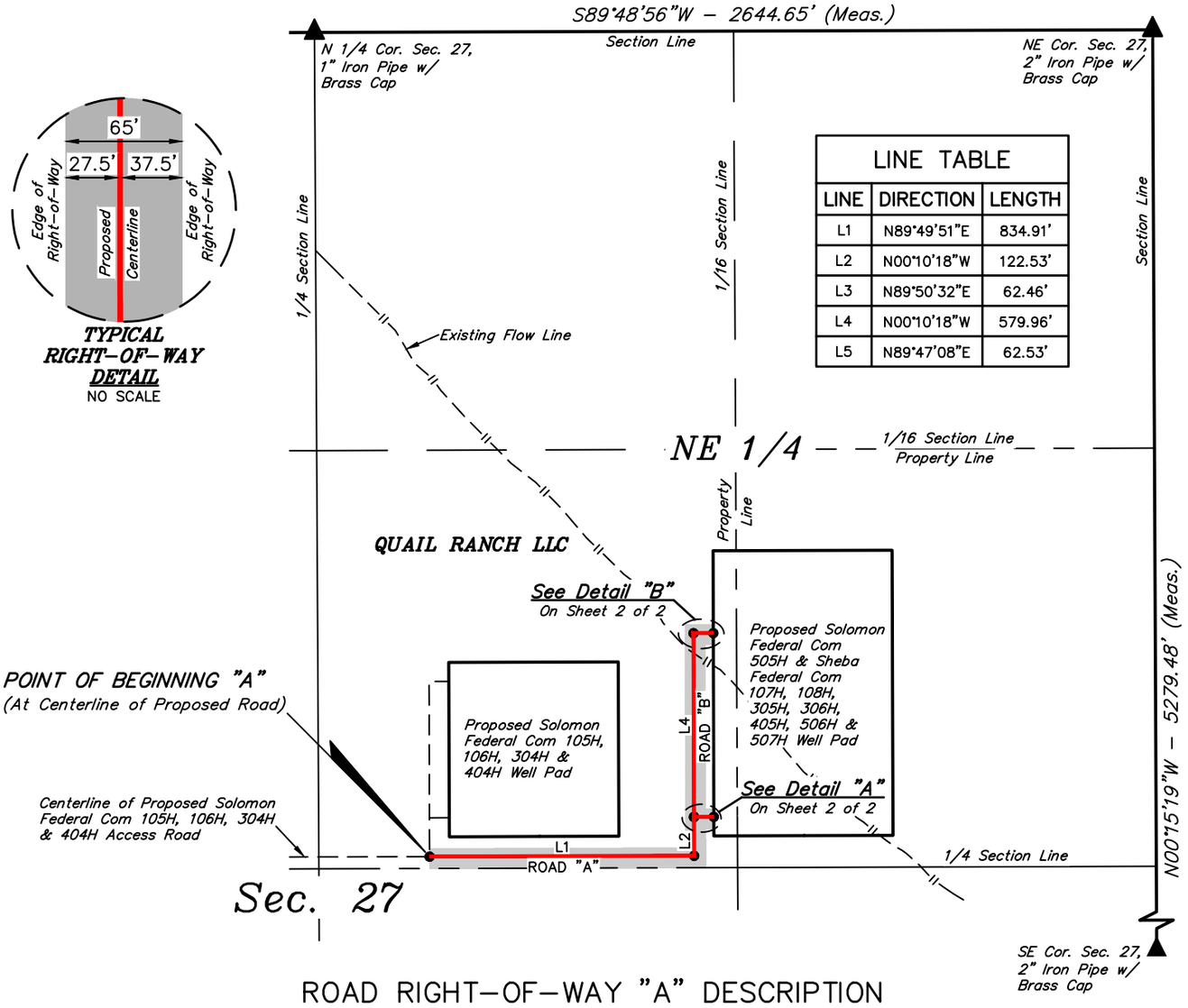
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

N

CENTENNIAL RESOURCE PRODUCTION, LLC

SOLOMON FEDERAL COM 505H & SHEBA FEDERAL COM 107H, 108H, 305H, 306H, 405H, 506H & 507H
SE 1/4 NE 1/4, SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C.	08-23-19	SCALE
DRAWN BY	S.T.O.	09-12-19	1 : 12,000
ACCESS ROAD MAP			TOPO B



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N89°49'51"E	834.91'
L2	N00°10'18"W	122.53'
L3	N89°50'32"E	62.46'
L4	N00°10'18"W	579.96'
L5	N89°47'08"E	62.53'

ROAD RIGHT-OF-WAY "A" DESCRIPTION

A 65' WIDE RIGHT-OF-WAY 37.5' ON THE RIGHT SIDE AND 27.5' ON THE LEFT SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE SW 1/4 NE 1/4 OF SECTION 27, T24S, R34E, N.M.P.M., WHICH BEARS S07°56'50"E 2625.69' FROM THE NORTH 1/4 CORNER OF SAID SECTION 27, THENCE N89°49'51"E 834.91'; THENCE N00°10'18"W 122.53'; THENCE N89°50'32"E 62.46' TO A POINT IN THE SW 1/4 NE 1/4 OF SAID SECTION 27 AND THE POINT OF TERMINATION, WHICH BEARS S26°58'41"E 2777.56' FROM THE NORTH 1/4 CORNER OF SAID SECTION 27. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A TRANSVERSE MERCATOR PROJECTION WITH A CENTRAL MERIDIAN OF W103°53'00". CONTAINS 1.522 ACRES MORE OR LESS.

ROAD RIGHT-OF-WAY "B" DESCRIPTION

A 65' WIDE RIGHT-OF-WAY 37.5' ON THE RIGHT SIDE AND 27.5' ON THE LEFT SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE SW 1/4 NE 1/4 OF SECTION 27, T24S, R34E, N.M.P.M., WHICH BEARS S25°49'00"E 2749.94' FROM THE NORTH 1/4 CORNER OF SAID SECTION 27, THENCE N00°10'18"W 579.96'; THENCE N89°47'08"E 62.53' TO A POINT IN THE SW 1/4 NE 1/4 OF SAID SECTION 27 AND THE POINT OF TERMINATION, WHICH BEARS S33°34'56"E 2274.99' FROM THE NORTH 1/4 CORNER OF SAID SECTION 27. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A TRANSVERSE MERCATOR PROJECTION WITH A CENTRAL MERIDIAN OF W103°53'00". CONTAINS 0.959 ACRES MORE OR LESS.

500' 250' 0' 500'

ACREAGE / LENGTH TABLE "A"		
FEET	RODS	ACRES
1019.91	61.81	1.522

ACREAGE / LENGTH TABLE "B"		
FEET	RODS	ACRES
642.50	38.94	0.959

▲ = 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.

NEW MEXICO 23782 PROFESSIONAL SURVEYOR
09-12-19

FILE: C-7112-A1

Sheet 1 of 2

NOTES:
- The maximum grade of existing ground for the proposed access road "A" is ±0.67%.
- The maximum grade of existing ground for the proposed access road "B" is ±1.48%.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00"

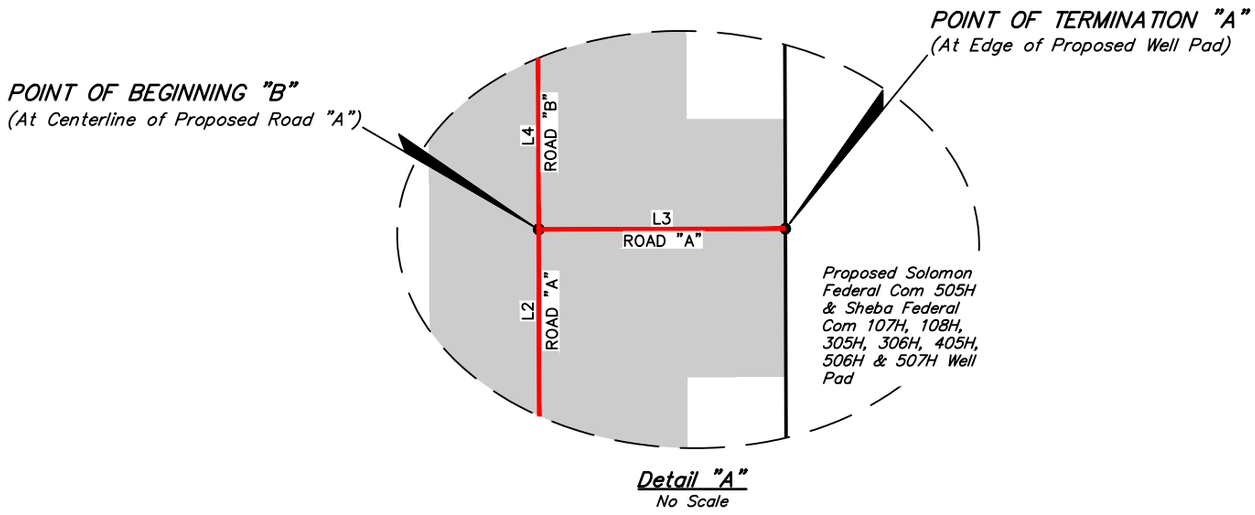
CENTENNIAL RESOURCE PRODUCTION, LLC

SOLOMON FEDERAL COM 505H & SHEBA FEDERAL COM 107H, 108H, 305H, 306H, 405H, 506H & 507H ON QUAIL RANCH LLC LANDS IN SECTION 27, T24S, R34E, N.M.P.M. LEA COUNTY, NEW MEXICO

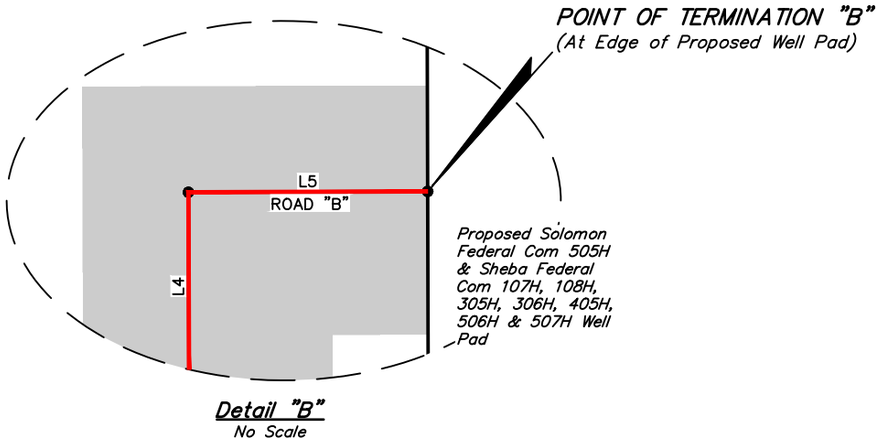
SURVEYED BY	R.C., M.D.	08-09-19	SCALE
DRAWN BY	S.M.R.	09-12-19	1" = 500'

ACCESS ROAD R-O-W

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



Detail "A"
No Scale



Detail "B"
No Scale

POINT OF BEGINNING "A" BEARS S07°56'50"E 2625.69' FROM THE NORTH 1/4 CORNER OF SECTION 27, T24S, R34E, N.M.P.M.

POINT OF TERMINATION "A" BEARS S26°58'41"E 2777.56' FROM THE NORTH 1/4 CORNER OF SECTION 27, T24S, R34E, N.M.P.M.

POINT OF BEGINNING "B" BEARS S25°49'00"E 2749.94' FROM THE NORTH 1/4 CORNER OF SECTION 27, T24S, R34E, N.M.P.M.

POINT OF TERMINATION "B" BEARS S33°34'56"E 2274.99' FROM THE NORTH 1/4 CORNER OF SECTION 27, T24S, R34E, N.M.P.M.

CERTIFICATE

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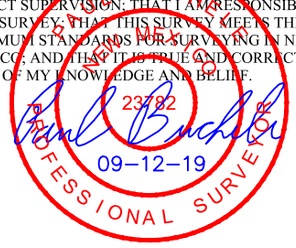


FILE: C-7112-A2

NOTES:

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

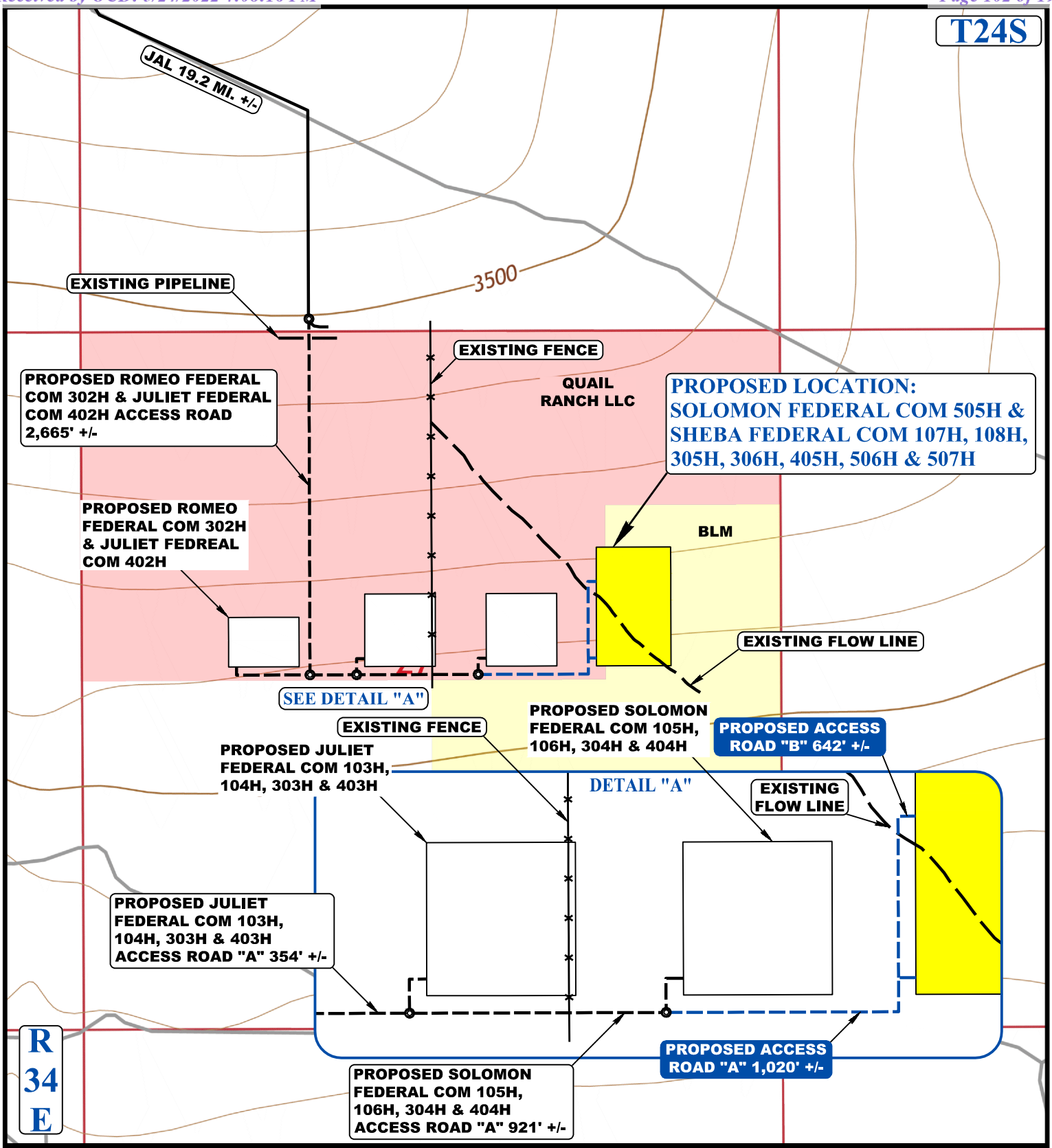
CENTENNIAL RESOURCE PRODUCTION, LLC

SOLOMON FEDERAL COM 505H & SHEBA FEDERAL COM 107H, 108H, 305H, 306H, 405H, 506H & 507H ON QUAIL RANCH LLC LANDS IN SECTION 27, T24S, R34E, N.M.P.M. LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., M.D.	08-09-19	SCALE
DRAWN BY	S.M.R.	09-12-19	N/A

ACCESS ROAD R-O-W

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



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
- PROPOSED ROAD (SERVICING OTHER WELLS)
- EXISTING PIPELINE
- EXISTING FLOW LINE
- EXISTING FENCE

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
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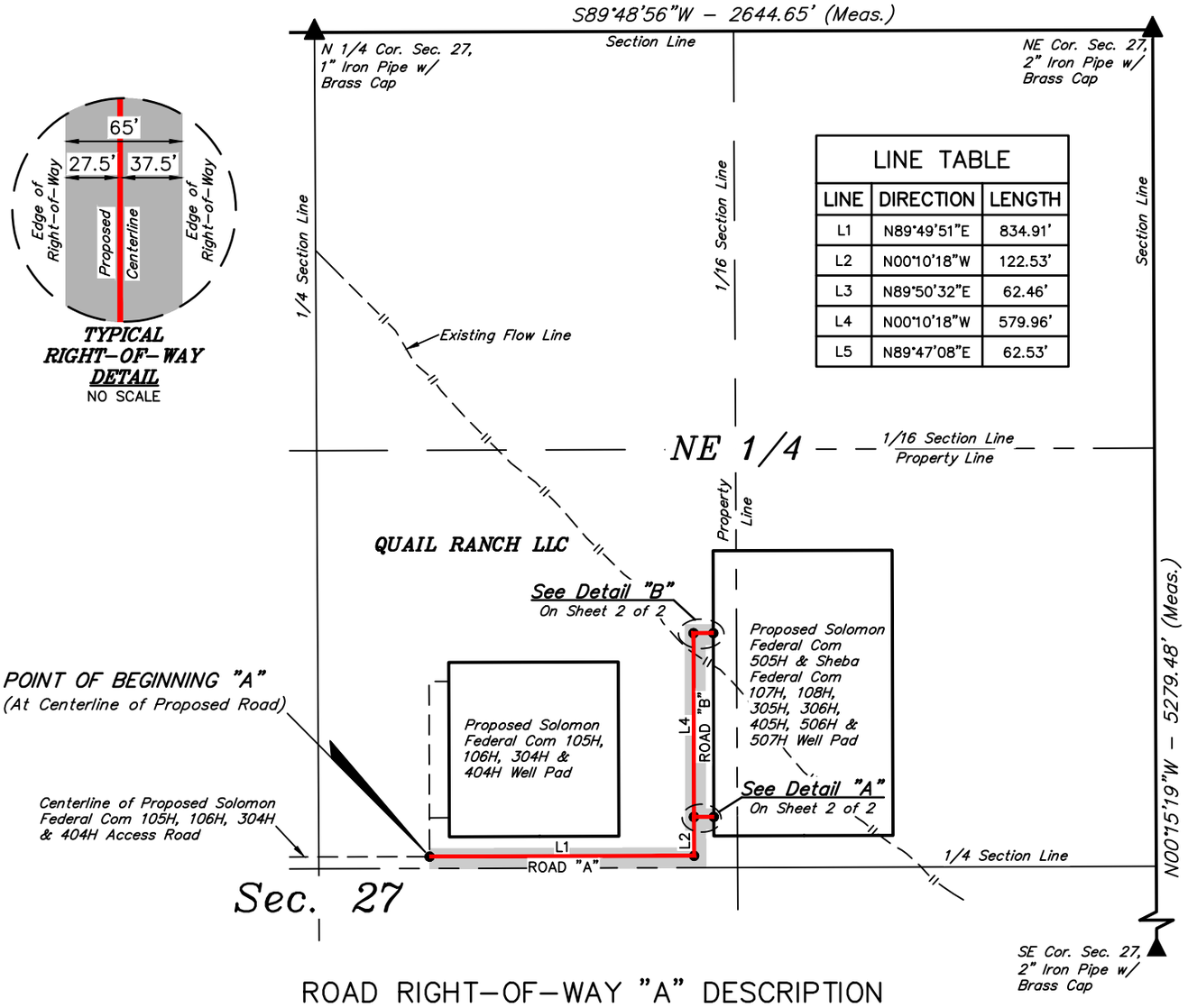
CENTENNIAL RESOURCE PRODUCTION, LLC

SOLOMON FEDERAL COM 505H & SHEBA FEDERAL COM 107H, 108H, 305H, 306H, 405H, 506H & 507H
SE 1/4 NE 1/4, SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C.	08-23-19	SCALE
DRAWN BY	S.T.O.	09-12-19	1 : 12,000
ACCESS ROAD MAP			TOPO B



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N89°49'51"E	834.91'
L2	N00°10'18"W	122.53'
L3	N89°50'32"E	62.46'
L4	N00°10'18"W	579.96'
L5	N89°47'08"E	62.53'

ROAD RIGHT-OF-WAY "A" DESCRIPTION

A 65' WIDE RIGHT-OF-WAY 37.5' ON THE RIGHT SIDE AND 27.5' ON THE LEFT SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE SW 1/4 NE 1/4 OF SECTION 27, T24S, R34E, N.M.P.M., WHICH BEARS S07°56'50"E 2625.69' FROM THE NORTH 1/4 CORNER OF SAID SECTION 27, THENCE N89°49'51"E 834.91'; THENCE N00°10'18"W 122.53'; THENCE N89°50'32"E 62.46' TO A POINT IN THE SW 1/4 NE 1/4 OF SAID SECTION 27 AND THE POINT OF TERMINATION, WHICH BEARS S26°58'41"E 2777.56' FROM THE NORTH 1/4 CORNER OF SAID SECTION 27. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A TRANSVERSE MERCATOR PROJECTION WITH A CENTRAL MERIDIAN OF W103°53'00". CONTAINS 1.522 ACRES MORE OR LESS.

ROAD RIGHT-OF-WAY "B" DESCRIPTION

A 65' WIDE RIGHT-OF-WAY 37.5' ON THE RIGHT SIDE AND 27.5' ON THE LEFT SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE SW 1/4 NE 1/4 OF SECTION 27, T24S, R34E, N.M.P.M., WHICH BEARS S25°49'00"E 2749.94' FROM THE NORTH 1/4 CORNER OF SAID SECTION 27, THENCE N00°10'18"W 579.96'; THENCE N89°47'08"E 62.53' TO A POINT IN THE SW 1/4 NE 1/4 OF SAID SECTION 27 AND THE POINT OF TERMINATION, WHICH BEARS S33°34'56"E 2274.99' FROM THE NORTH 1/4 CORNER OF SAID SECTION 27. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A TRANSVERSE MERCATOR PROJECTION WITH A CENTRAL MERIDIAN OF W103°53'00". CONTAINS 0.959 ACRES MORE OR LESS.

500' 250' 0' 500'

ACREAGE / LENGTH TABLE "A"		
FEET	RODS	ACRES
1019.91	61.81	1.522

ACREAGE / LENGTH TABLE "B"		
FEET	RODS	ACRES
642.50	38.94	0.959

▲ = SECTION CORNERS LOCATED.

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NEW MEXICO 23782 PROFESSIONAL SURVEYOR
09-12-19

FILE: C-7112-A1

Sheet 1 of 2

NOTES:
- The maximum grade of existing ground for the proposed access road "A" is ±0.67%.
- The maximum grade of existing ground for the proposed access road "B" is ±1.48%.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00"

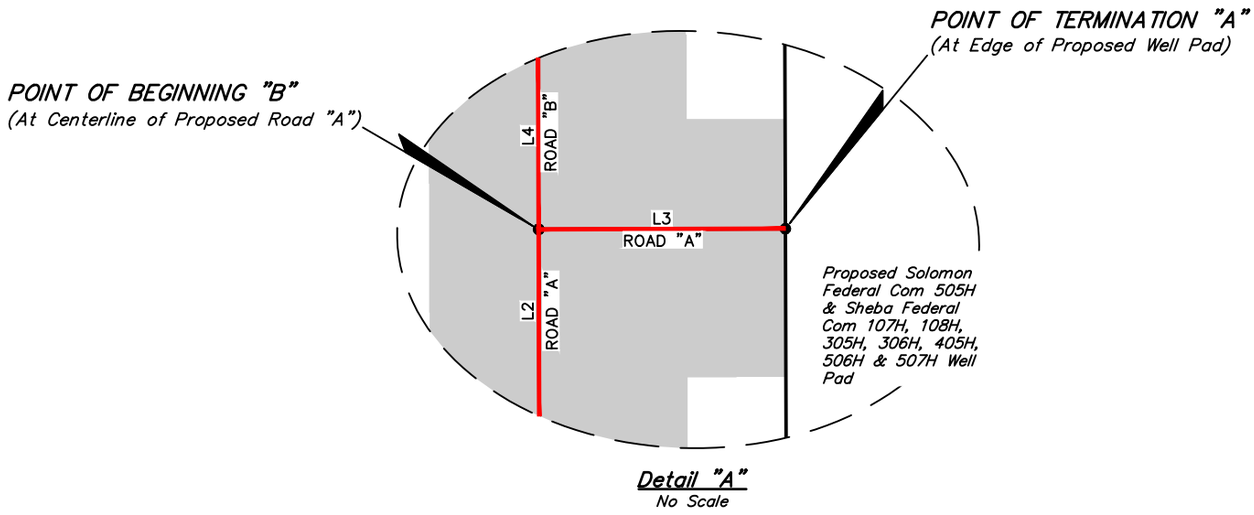
CENTENNIAL RESOURCE PRODUCTION, LLC

SOLOMON FEDERAL COM 505H & SHEBA FEDERAL COM 107H, 108H, 305H, 306H, 405H, 506H & 507H ON QUAIL RANCH LLC LANDS IN SECTION 27, T24S, R34E, N.M.P.M. LEA COUNTY, NEW MEXICO

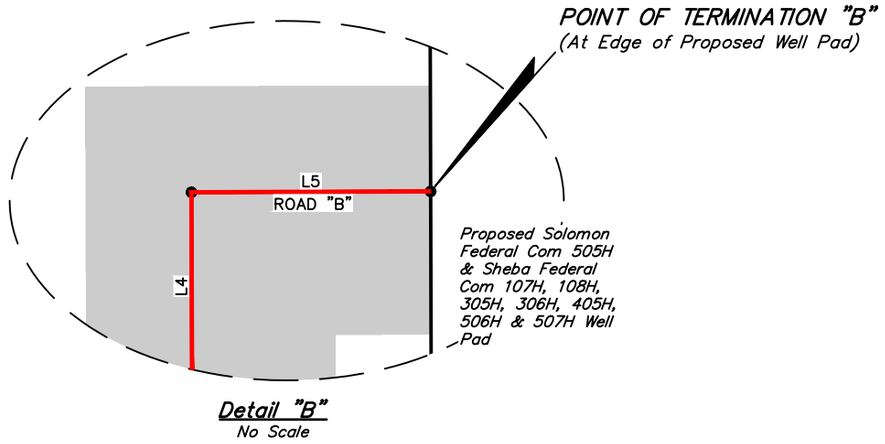
SURVEYED BY	R.C., M.D.	08-09-19	SCALE
DRAWN BY	S.M.R.	09-12-19	1" = 500'

ACCESS ROAD R-O-W

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



Detail "A"
No Scale



Detail "B"
No Scale

POINT OF BEGINNING "A" BEARS S07°56'50"E 2625.69' FROM THE NORTH 1/4 CORNER OF SECTION 27, T24S, R34E, N.M.P.M.

POINT OF TERMINATION "A" BEARS S26°58'41"E 2777.56' FROM THE NORTH 1/4 CORNER OF SECTION 27, T24S, R34E, N.M.P.M.

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FILE: C-7112-A2

NOTES:

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CENTENNIAL RESOURCE PRODUCTION, LLC

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ACCESS ROAD R-O-W

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SOLOMON FEDERAL COM 505H & SHEBA FED COM 506H, 507H, 306H & 405H

SURFACE USE PLAN

EXISTING ROADS (ROAD PLATS ATTACHED AS PLAT #1)

- The operator will improve or maintain existing road in a condition the same as or better than before operations begin. The operator will repair pot holes, clear ditches, repair the crown, etc. All existing structures o the entire access route such as cattle guards, other range improvement projects, culverts, etc. will be properly repaired or replaced if they are damaged or have deteriorated beyond practical use. We will prevent and abate fugitive dust as needed, whether created by vehicular traffic, equipment operations, or wind events. BLM written approval will be acquired before application of surfactants, binding agents, or the dust suppression chemicals on roadways.

DIRECTIONS (PLAT ATTACHED AS PLAT #2)

- BEGINNING AT THE JUNCTION OF MAIN ST. & NM-176 IN EUNICE, NEW MEXICO PROCEED IN A WESTERLY, THEN NORTHWESTERLY, THEN WESTERLY DIRECTION ALONG NM-176 APPROXIMATELY 20.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN LEFT AND PROCEED IN A SOUTHWESTERLY, THEN SOUTHERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 3.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN LEFT AND PROCEED IN A SOUTHWESTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 4.0 MILES TO THE JUNCTION OF THIS ROAD AND WILSON CAMP LANE TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY

DIRECTION APPROXIMATELY 0.9 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE SOUTH; FOLLOW ROAD FLAGS IN A SOUTHERLY DIRECTION APPROXIMATELY 350' TO THE PROPOSED LOCATION.
TOTAL DISTANCE FROM EUNICE, NEW MEXICO TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 29.0 MILES.

NEW OR RECONSTRUCTED ACCESS ROADS (WELL PLAT ATTACHED AS PLAT #3)

- There will be approximately 1,662.41’ of new road construction for the well pad and facilities.
- Road Width: The access roads shall have a driving surface that creates the smallest possible surface disturbance and does not exceed 65’. (see “Access Road ROW” plat attached)
- Maximum Grade: 8%
- Crown Design: Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2%. The road shall conform to cross section and plans for typical road construction found in the BLM Gold Book.
- Ditch Design: Ditching will be constructed on both sides of road.
- Cattle guards: None suggested.
- Major Cuts and Fills: 2:1 during drilling and completions. Cuts and fills taken back to 3:1 at interim.
- Type of surfacing Material: Caliche.

LOCATION OF EXISTING WELLS (DIAGRAM & SPREADSHEET ATTACHED AS PLAT #4)

- 1-mile radius map and well details attached.

LOCATION OF EXISTING AND/OR PROPOSED PRODUCTION FACILITIES (WORK AREA DETAIL MAP ATTACHED AS PLAT #5)

- Facilities:

- Production facility will be located on the of Sec. 27, T24S-R34E, offsite CTB, where oil and gas sales will take place. The facility is approximately 500' x 300'.
- We will tie into the existing pipeline, north of the pad.
- Open vent exhaust stacks will be modified to prevent birds or bats from entering, discourage perching, roosting and nesting.
- Facility will have a secondary containment 1.5 times the holding capacity of largest storage tank.
- All above ground structures will be painted non-reflective shale green for blending with the environment.
- The tank battery will be connected to the existing water gathering system in the field for permanent water disposal.

LOCATION OF PROPOSED ROW (WELL PLAT ATTACHED AS PLAT #6)

- Pipelines: [FEE SURFACE] 1 – buried SWD pipeline <12 ¾" OD, approximately 4,254' +/-, will be laid from the CTB in Section 27, going west to an existing SWD line that runs along the south line of section 27-T24S-R34E
  - A ROW will not be required for these pipelines.
  - All construction activity will be confined to the approved ROW.
  - Pipeline will run parallel to the road and will stay within approved ROW.
- Powerlines: [FEE SURFACE] A powerline, will be installed from the well location to an Xcel take point TBD within section 27-T24S-R34E. When Xcel approves the take point on lease, plats will be submitted in order to file a sundry for the OHE line.
  - A ROW will not be required for this OHE line.
  - All construction activity will be confined to the approved ROW.
  - Powerline will run parallel to the road and will stay within approved ROW.

LOCATION AND TYPES OF WATER (WORK AREA DETAILED MAP ATTACHED AS PLAT #7)

- Existing frac ponds in Sec 16, T24S-R34E will be utilized for fresh water and the source for recycled water is TBD.
- Fresh water will be obtained from a private water source.
- Temporary expanding water surface line will be used to transport water for drilling and completion operations from the pipeline to the Solomon location along existing lease road a total of approx. 15,470' from the well location to the existing frac pond in Sec 16.
    - Fresh water line will run parallel to the existing lease road, then north within an existing pipeline right of way.
    - A BLM ROW will not be required for the water transfer line.

CONSTRUCTION MATERIAL

- Caliche will be hauled from the existing Concho pit located in {SE4 NW4, Sec 6, T24S, R35E}. Pit has been identified for use in the attached exhibit.
- Any native caliche on the proposed site can be used by "flipping" the location and using all native soils.
    - Notification shall be given to the BLM two working days prior to commencing construction of access road and /or well pad.

METHODS FOR HANDLING WASTE

- Drilling fluids and produced oil and water from the well during drilling and completion operations will be stored safely and disposed of properly in an NMOCD approved disposal facility.
- Garbage and trash produced during drilling and completion operations will be collected in a trash container and disposed of properly at a state approved disposal facility. All trash on and around the well site will be collected for disposal.
- Human waste and grey water will be properly contained and disposed of properly at a state approve disposal facility.
- After drilling and completion operations, trash, chemicals, salts frac sand and other waste material will be removed and disposed of properly at a state approved disposal facility.

- The well will be drilled utilizing a closed loop system. Drill cuttings will be properly disposed of into steel tank and taken to an NMOCD approved disposal facility.

ANCILLARY FACILITIES

- None

WELL SITE LAYOUT (WELL SITE PLAT ATTACHED AS PLAT #8)

- Well Site Plat
  - Exterior well pad dimensions are 565' x 900'.
  - Interior well pad dimensions from point of entry (well head) of the westernmost well are N-800', S-175', W-265', E-300'. The length to the east includes 30' spacing for next well on multi-well pad (three wells). Total disturbance area needed for construction of well pad will be 12.5 acres.
  - Top soil placement is on the south side of pad. Interim reclamation is planned to be completed upon completion of well and evaluation of best management practices. (Reclamation plat attached.

PROPOSED PAD CUT & FILL (PLAT ATTACHED AS PLAT #9)

- Cut and fill: will be minimal.

RIG LAYOUT (ATTACHED AS PLAT #10)

PLANS FOR SURFACE RECLAMATION (RECLAMATION PLAT ATTACHED AS PLAT #11)

Reclamation Objectives

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

hydrologic systems, visual resources, and wildlife habitats. To ensure that the long-term objective will be reached through human and natural processes, actions will be taken to ensure standards are met for site stability, visual quality, hydrological functioning, and vegetative productivity.

- The BLM will be notified at least 3 days prior to commencement of any reclamation procedures.
- If circumstances allow, interim reclamation and/or final reclamation actions will be completed. We will gain written permission from the BLM if more time is needed.

Reclamation will be performed by using the following procedures:

Interim Reclamation Procedures

- Within 6 months, Centennial will contact BLM Surface Management Specialists to devise the best strategies to reduce the size of the location. Current plans for interim reclamation include reducing the pad size to approximately 3.989 acres from the proposed size of 4.870 acres. the well location and surrounding areas will be cleared of, and maintained free of, all materials, trash, and equipment not require for production. A plan will be submitted showing where interim reclamation will be completed to allow for safe operations, protection of the environment outside of drilled well, and following best Management practices found in the BLM “Gold Book”.
- In areas planned for interim reclamation, all the surfacing material will be removed and returned to the original mineral pit or recycled to repair or build roads and well pads.
- The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to res-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Notice: Constructed

slopes may be much steeper during drilling but will be recontoured to the above ratios during interim reclamation.
- Topsoil will be evenly re-spread and aggressively revegetated over the entire disturbed area not needed for all-weather operations including cuts & fills. To seed the area, the proper BLM seed mixture (BLM#2), free of noxious weeds, will be used.
- Proper erosion control methods will be used on the area to control erosion, runoff and siltation of the surrounding area.
- The interim reclamation will be monitored periodically to ensure that vegetation has reestablished.

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

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

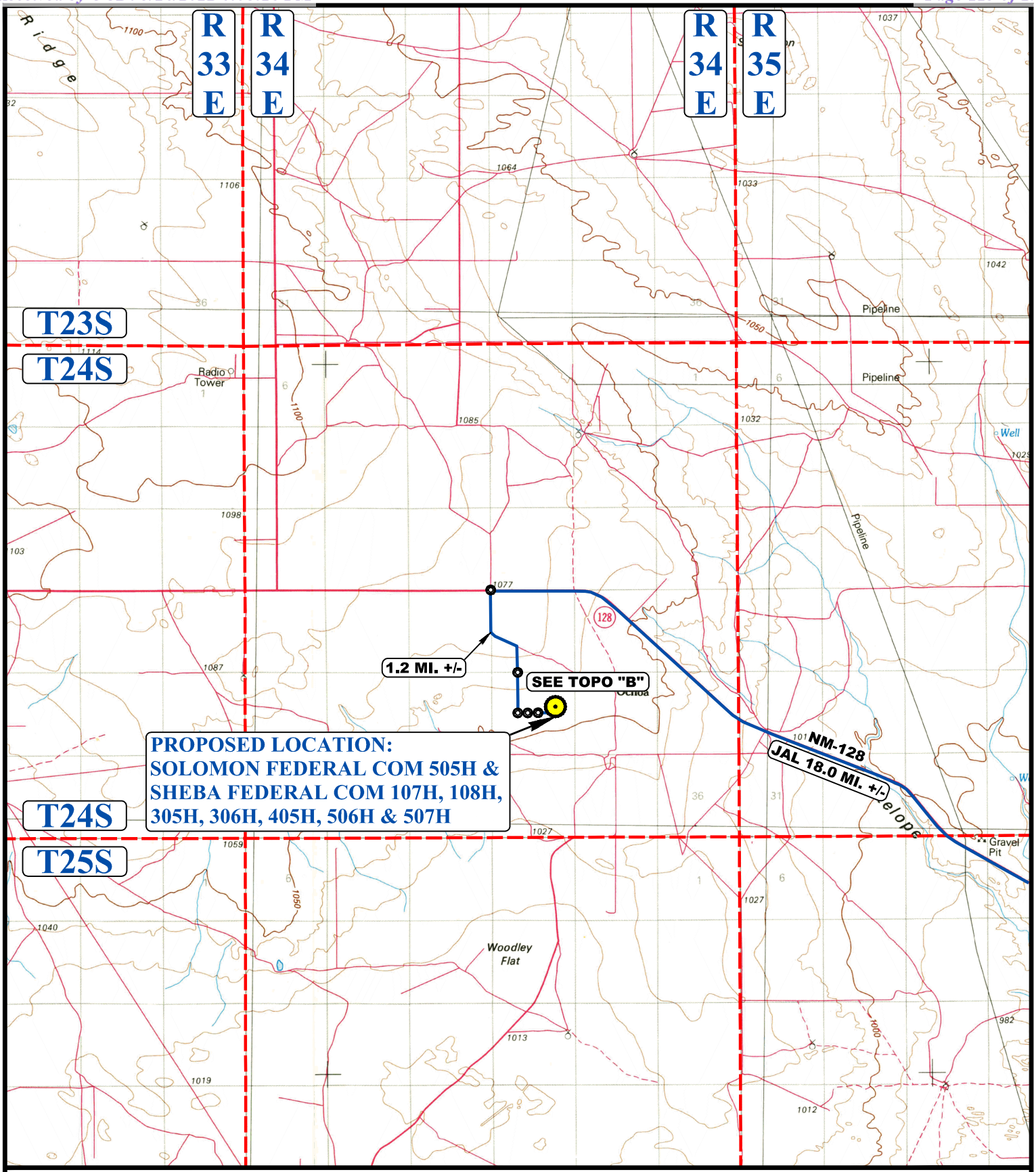
SURFACE OWNERSHIP

- Well pad and all other infrastructure is on Quail Ranch surface.

OTHER INFORMATION

- On-site performed by BLM NRS Paul Murphy 4/25/19

- Erosion / Drainage: Drainage control system shall be constructed on the entire length of road using any of the following: ditches, side hill out-sloping and in-sloping, lead-off ditched, culvert installation, or low water crossings.
- Enclosure fencing will be installed around open cellar to prevent livestock or large wildlife from being trapped after installation, or low water crossings.
- Enclosure fencing will be installed around open cellar to prevent livestock or large wildlife from being trapped after installation. Fencing will remain in place while no activity is present and until backfilling takes place.
- Terrain: Landscape is flat
- Soil: Sandy loam
- Vegetation: Vegetation present in surrounding area includes mesquite, shrubs, and grass (needle-grass, burro grass, dropseed).
- Wildlife: No wildlife observed, but it is likely that deer, rabbits, coyotes and rodents pass through the area.
- Surface Water: No surface water concerns.
- Cave Karst: Low Karst area with no cave or visual signs of caves found.
- Watershed Protection: The entire perimeter of the well pad will be bermed to prevent oil, salt and other chemical contaminates from leaving the well pad.



LEGEND:

PROPOSED LOCATION

N

CENTENNIAL RESOURCE PRODUCTION, LLC

SOLOMON FEDERAL COM 505H & SHEBA FEDERAL
COM 107H, 108H, 305H, 306H, 405H, 506H & 507H
SE 1/4 NE 1/4, SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C.	08-23-19	SCALE
DRAWN BY	S.T.O.	09-12-19	1 : 100,000
ACCESS ROAD MAP			TOPO A

UINTAH ENGINEERING & LAND SURVEYING

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

PROCEED IN A WESTERLY, THEN NORTHWESTERLY, THEN WESTERLY DIRECTION FROM JAL, NEW MEXICO ALONG NM-128 APPROXIMATELY 18.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 1.2 MILES TO THE BEGINNING OF THE PROPOSED ROMEO FEDERAL COM 302H & JULIET FEDERAL COM 402H ACCESS ROAD TO THE SOUTH; FOLLOW ROAD FLAGS IN A SOUTHERLY DIRECTION APPROXIMATELY 2,665' TO THE BEGINNING OF THE PROPOSED JULIET FEDERAL COM 103H, 104H, 303H & 403H ACCESS ROAD "A" TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY DIRECTION APPROXIMATELY 354' TO THE BEGINNING OF THE PROPOSED SOLOMON FEDERAL COM 105H, 106H, 304H & 404H ACCESS ROAD "A" TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY DIRECTION APPROXIMATELY 921' TO THE BEGINNING OF THE PROPOSED ACCESS ROAD "A" TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY, THEN NORTHERLY, EASTERLY DIRECTION APPROXIMATELY 1,020' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM JAL, NEW MEXICO TO THE PROPOSED LOCATION IS APPROXIMATELY 20.1 MILES.

CENTENNIAL RESOURCE PRODUCTION, LLC

SOLOMON FEDERAL COM 505H & SHEBA FEDERAL COM 107H, 108H, 305H, 306H, 405H, 506H & 507H
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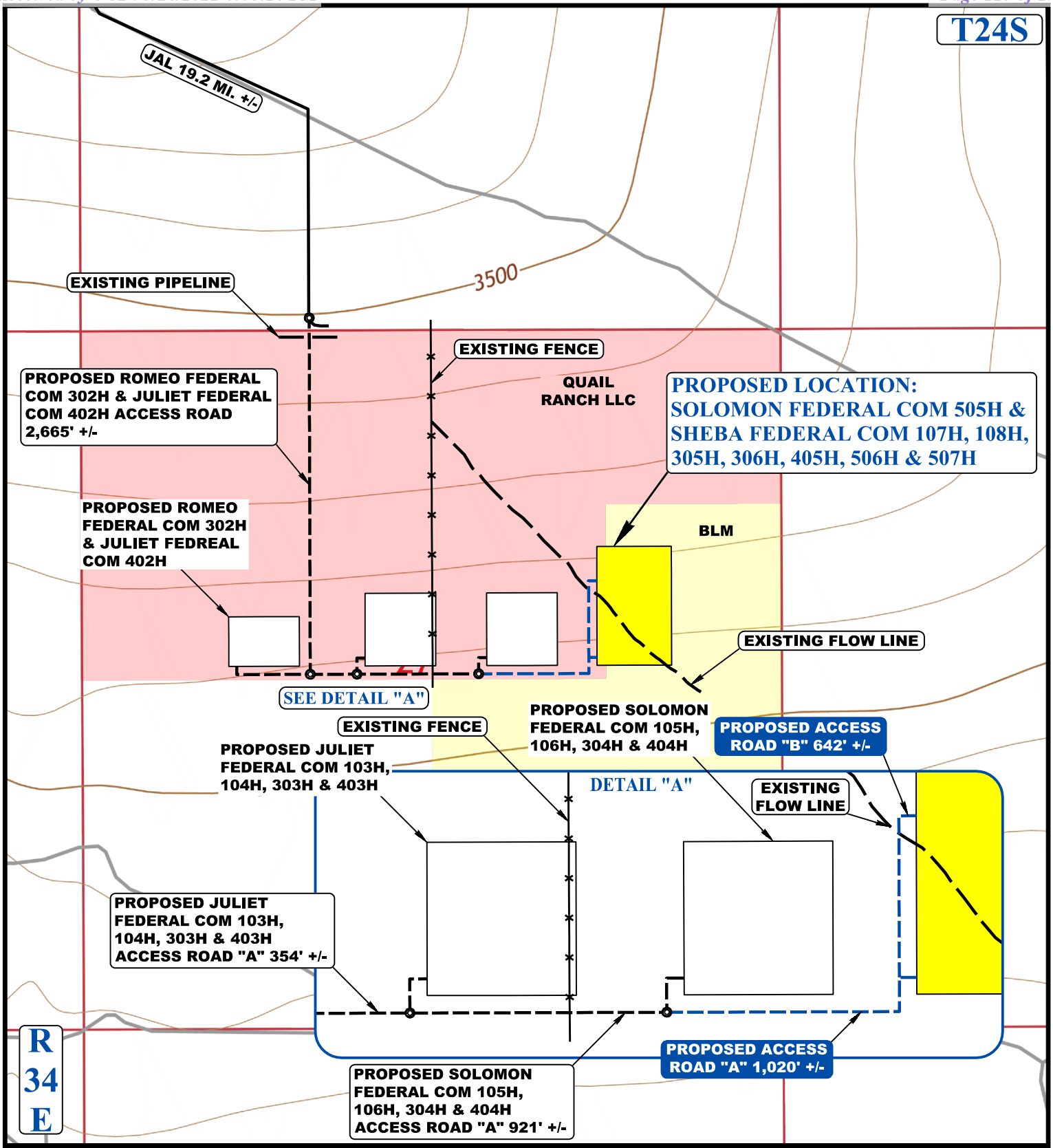
SURVEYED BY	B.B., R.C.	08-23-19	
DRAWN BY	S.T.O.	09-12-19	

ROAD DESCRIPTION



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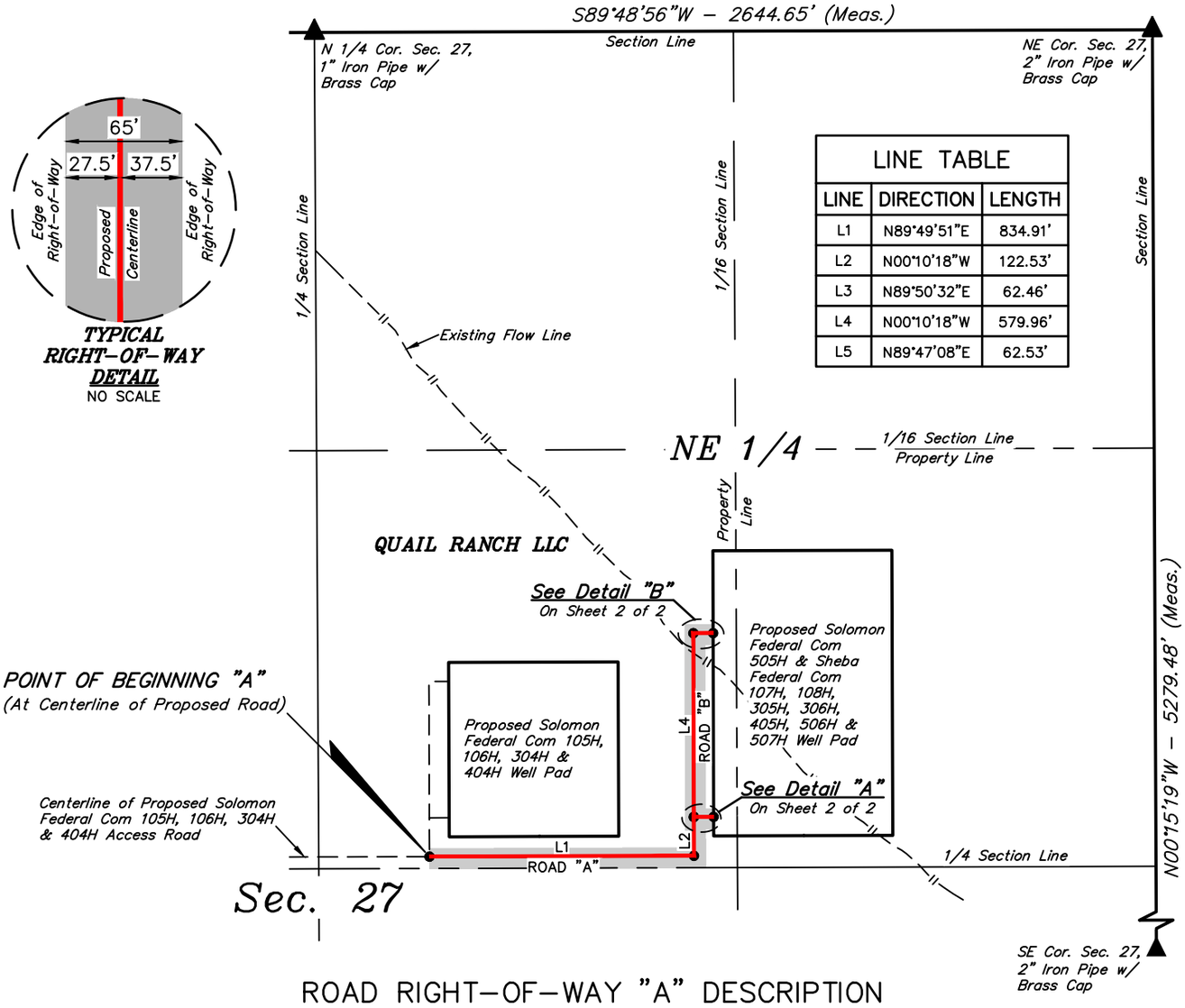
SURVEYED BY	B.B., R.C.	08-23-19	SCALE
DRAWN BY	S.T.O.	09-12-19	1 : 12,000
ACCESS ROAD MAP			TOPO B



LINE TABLE		
LINE	DIRECTION	LENGTH
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L2	N00°10'18"W	122.53'
L3	N89°50'32"E	62.46'
L4	N00°10'18"W	579.96'
L5	N89°47'08"E	62.53'

ROAD RIGHT-OF-WAY "A" DESCRIPTION

A 65' WIDE RIGHT-OF-WAY 37.5' ON THE RIGHT SIDE AND 27.5' ON THE LEFT SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE SW 1/4 NE 1/4 OF SECTION 27, T24S, R34E, N.M.P.M., WHICH BEARS S07°56'50"E 2625.69' FROM THE NORTH 1/4 CORNER OF SAID SECTION 27, THENCE N89°49'51"E 834.91'; THENCE N00°10'18"W 122.53'; THENCE N89°50'32"E 62.46' TO A POINT IN THE SW 1/4 NE 1/4 OF SAID SECTION 27 AND THE POINT OF TERMINATION, WHICH BEARS S26°58'41"E 2777.56' FROM THE NORTH 1/4 CORNER OF SAID SECTION 27. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A TRANSVERSE MERCATOR PROJECTION WITH A CENTRAL MERIDIAN OF W103°53'00". CONTAINS 1.522 ACRES MORE OR LESS.

ROAD RIGHT-OF-WAY "B" DESCRIPTION

A 65' WIDE RIGHT-OF-WAY 37.5' ON THE RIGHT SIDE AND 27.5' ON THE LEFT SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE SW 1/4 NE 1/4 OF SECTION 27, T24S, R34E, N.M.P.M., WHICH BEARS S25°49'00"E 2749.94' FROM THE NORTH 1/4 CORNER OF SAID SECTION 27, THENCE N00°10'18"W 579.96'; THENCE N89°47'08"E 62.53' TO A POINT IN THE SW 1/4 NE 1/4 OF SAID SECTION 27 AND THE POINT OF TERMINATION, WHICH BEARS S33°34'56"E 2274.99' FROM THE NORTH 1/4 CORNER OF SAID SECTION 27. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A TRANSVERSE MERCATOR PROJECTION WITH A CENTRAL MERIDIAN OF W103°53'00". CONTAINS 0.959 ACRES MORE OR LESS.

500' 250' 0' 500'

ACREAGE / LENGTH TABLE "A"		
FEET	RODS	ACRES
1019.91	61.81	1.522

ACREAGE / LENGTH TABLE "B"		
FEET	RODS	ACRES
642.50	38.94	0.959

▲ = 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.

NEW MEXICO 23782 PROFESSIONAL SURVEYOR
09-12-19

FILE: C-7112-A1

Sheet 1 of 2

NOTES:
- The maximum grade of existing ground for the proposed access road "A" is ±0.67%.
- The maximum grade of existing ground for the proposed access road "B" is ±1.48%.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00"

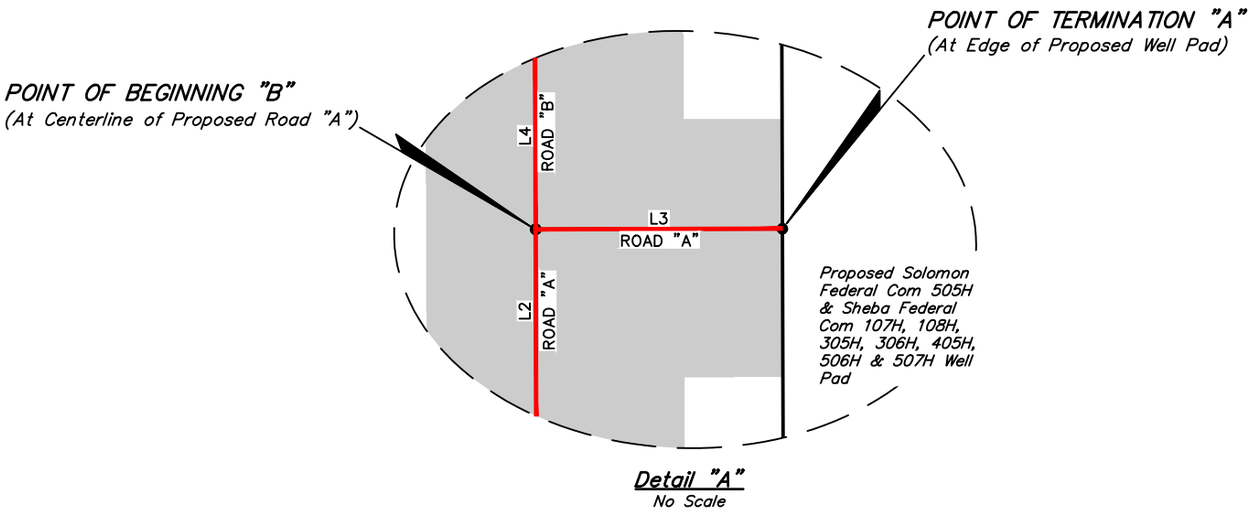
CENTENNIAL RESOURCE PRODUCTION, LLC

SOLOMON FEDERAL COM 505H & SHEBA FEDERAL COM 107H, 108H, 305H, 306H, 405H, 506H & 507H ON QUAIL RANCH LLC LANDS IN SECTION 27, T24S, R34E, N.M.P.M. LEA COUNTY, NEW MEXICO

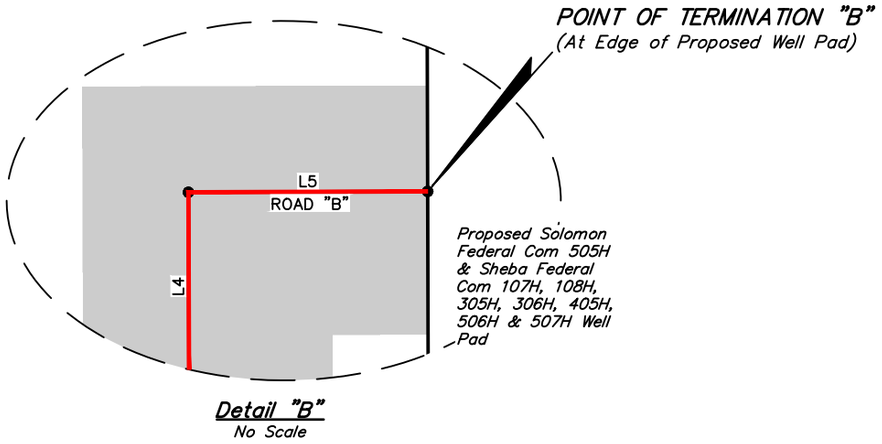
SURVEYED BY	R.C., M.D.	08-09-19	SCALE
DRAWN BY	S.M.R.	09-12-19	1" = 500'

ACCESS ROAD R-O-W

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

POINT OF BEGINNING "A" BEARS S07°56'50"E 2625.69' FROM THE NORTH 1/4 CORNER OF SECTION 27, T24S, R34E, N.M.P.M.

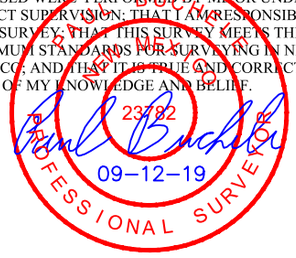
POINT OF TERMINATION "A" BEARS S26°58'41"E 2777.56' FROM THE NORTH 1/4 CORNER OF SECTION 27, T24S, R34E, N.M.P.M.

POINT OF BEGINNING "B" BEARS S25°49'00"E 2749.94' FROM THE NORTH 1/4 CORNER OF SECTION 27, T24S, R34E, N.M.P.M.

POINT OF TERMINATION "B" BEARS S33°34'56"E 2274.99' FROM THE NORTH 1/4 CORNER OF SECTION 27, T24S, R34E, 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.



FILE: C-7112-A2

Sheet 2 of 2

NOTES:

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

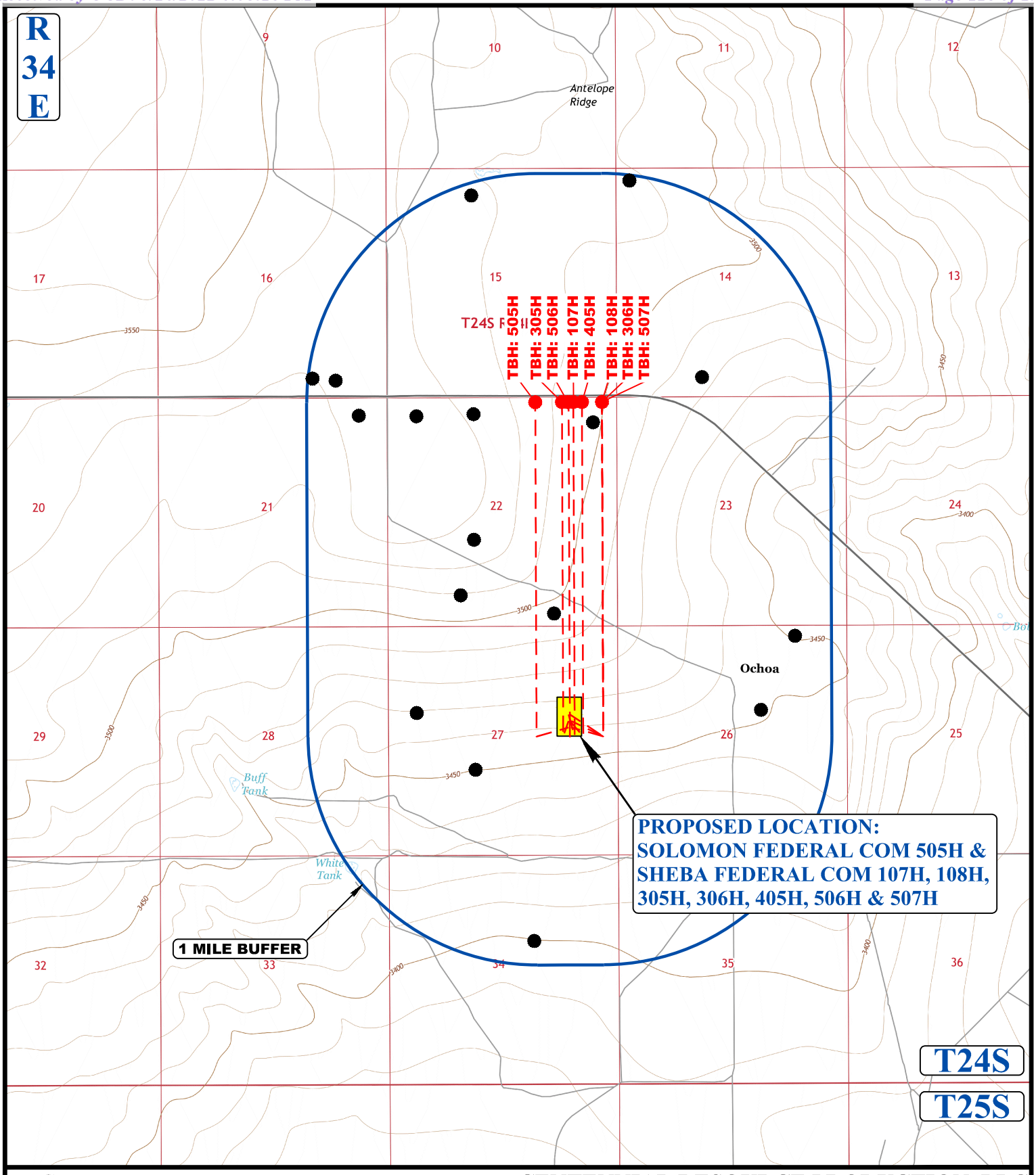
CENTENNIAL RESOURCE PRODUCTION, LLC

SOLOMON FEDERAL COM 505H & SHEBA FEDERAL COM 107H, 108H, 305H, 306H, 405H, 506H & 507H ON QUAIL RANCH LLC LANDS IN SECTION 27, T24S, R34E, N.M.P.M. LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., M.D.	08-09-19	SCALE
DRAWN BY	S.M.R.	09-12-19	N/A

ACCESS ROAD R-O-W

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



LEGEND:

● EXISTING WELLS

N

CENTENNIAL RESOURCE PRODUCTION, LLC

SOLOMON FEDERAL COM 505H & SHEBA FEDERAL COM 107H, 108H, 305H, 306H, 405H, 506H & 507H
SE 1/4 NE 1/4, SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C.	08-23-19	SCALE
DRAWN BY	S.T.O.	09-12-19	1 : 24,000
WELL PROXIMITY MAP			TOPO C

UINTAH ENGINEERING & LAND SURVEYING

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

JULIET FEDERAL COM 503H, 504H & SOLOMON FEDERAL COM 505H ON EXISTING JULIET FEDERAL COM 1H

SUPPLEMENTAL OIL & GAS SPREADSHEET TO TOPO "C"

DATE: 02-13-20 S.T.O.

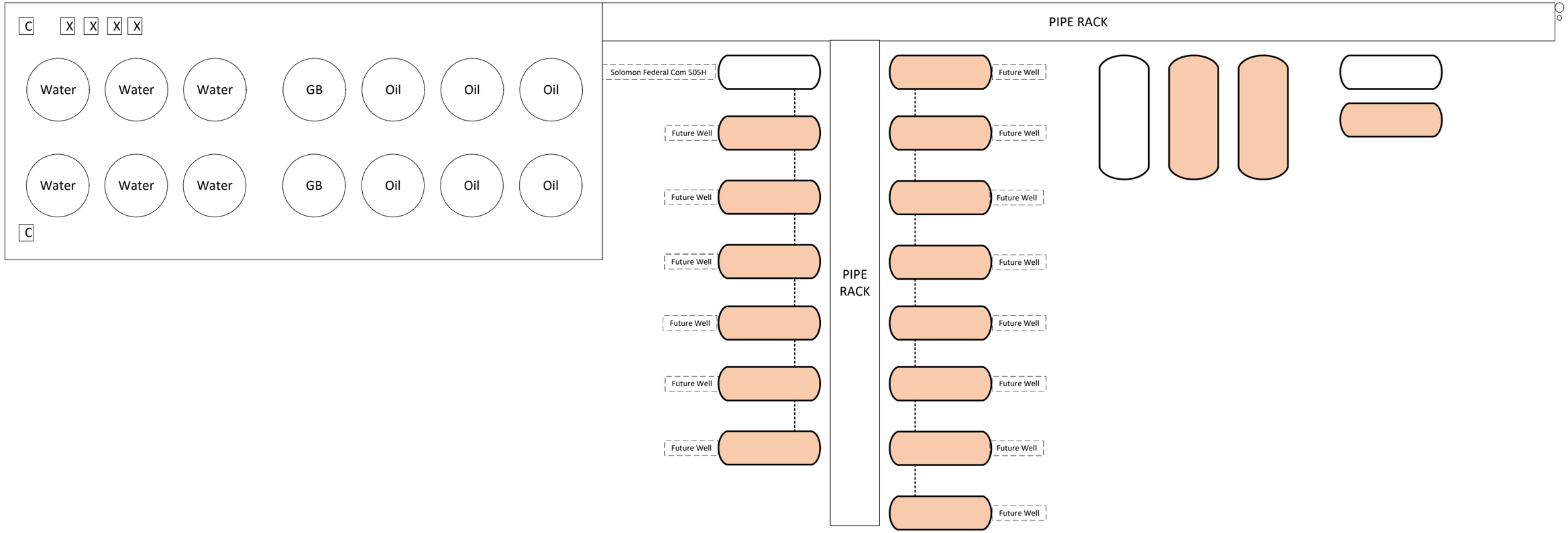
OBJECTID	API	OPERATOR	WELL NAME	WELL TYPE	WELL STATUS	UNIT LETTER-SECTION-TOWNSHIP-RANGE	NAD 83 LATITUDE	NAD 83 LONGITUDE
96265	30-025-42448	OWL SWD OPERATING LLC	MADERA SWD #001	Salt Water Disposal	Active	N-14-24S-34E	32.21148421	-103.44286420
29008	30-025-27572	STRATA PRODUCTION CO	BUCKEYE #001	Oil	Plugged (site released)	C-15-24S-34E	32.22302250	-103.45999150
97	30-025-45462	MARATHON OIL PERMIAN LLC	FLOWMASTER 15 FB FEE #016H	Oil	New	N-15-24S-34E	32.21200950	-103.45940230
118	30-025-45461	MARATHON OIL PERMIAN LLC	FLOWMASTER 15 WD FEE #012H	Gas	New	N-15-24S-34E	32.21200886	-103.45930510
138	30-025-44684	MARATHON OIL PERMIAN LLC	FLOWMASTER FEE 24 34 15 TB #010H	Oil	New	N-15-24S-34E	32.21190551	-103.46027630
139	30-025-44687	MARATHON OIL PERMIAN LLC	FLOWMASTER FEE 24 34 15 WA #014H	Oil	Active	N-15-24S-34E	32.21190496	-103.46017920
145	30-025-45460	MARATHON OIL PERMIAN LLC	FLOWMASTER 15 WB FEE #011H	Gas	New	N-15-24S-34E	32.21201081	-103.45963400
146	30-025-45463	MARATHON OIL PERMIAN LLC	FLOWMASTER 15 AV FEE #017H	Oil	New	N-15-24S-34E	32.21201020	-103.45949930
1404	30-025-44689	MARATHON OIL PERMIAN LLC	FLOWMASTER 15 WXY FEE #002H	Oil	Active	N-15-24S-34E	32.21190550	-103.46027630
63405	30-025-45965	MARATHON OIL PERMIAN LLC	FLOWMASTER 15 FB FEE #015H	Oil	Active	N-15-24S-34E	32.21190671	-103.46037340
66929	30-025-46000	MARATHON OIL PERMIAN LLC	WILL KANE 15 WXY FEE #010H	Gas	Active	O-15-24S-34E	32.21170309	-103.45357800
66945	30-025-45997	MARATHON OIL PERMIAN LLC	WILL KANE 15 WA FEE #006H	Oil	Active	O-15-24S-34E	32.21170365	-103.45367500
66946	30-025-45999	MARATHON OIL PERMIAN LLC	WILL KANE 15 WXY FEE #003H	Oil	Active	O-15-24S-34E	32.21170462	-103.45377180
66944	30-025-45998	MARATHON OIL PERMIAN LLC	WILL KANE 15 WA FEE #011H	Oil	Active	P-15-24S-34E	32.21170261	-103.45348100
99921	30-025-45380	EOG RESOURCES INC	JOLLY ROGER 16 STATE #708H	Oil	Active	N-16-24S-34E	32.21200450	-103.47698430
102603	30-025-45379	EOG RESOURCES INC	JOLLY ROGER 16 STATE #707H	Oil	Active	N-16-24S-34E	32.21200470	-103.47709100
1576	30-025-40566	CENTENNIAL RESOURCE PRODUCTION LLC	PIRATE STATE #001H	Oil	Active	O-16-24S-34E	32.21158600	-103.47171020
1615	30-025-43917	CENTENNIAL RESOURCE PRODUCTION LLC	PIRATE STATE #101H	Oil	Active	P-16-24S-34E	32.21130300	-103.46745800
1623	30-025-44426	CENTENNIAL RESOURCE PRODUCTION LLC	PIRATE STATE #301H	Oil	Active	P-16-24S-34E	32.21133500	-103.47020400
1546	30-025-43408	CENTENNIAL RESOURCE PRODUCTION LLC	RAIDER FEDERAL COM #101H	Oil	Active	A-21-24S-34E	32.20919490	-103.46850280
1620	30-025-43401	CENTENNIAL RESOURCE PRODUCTION LLC	RAIDER FEDERAL #301H	Oil	Active	B-21-24S-34E	32.20920340	-103.47431920
80563	30-025-08494	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	Plugged (site released)	B-21-24S-34E	32.20850750	-103.47277070
7664	30-025-46428	CENTENNIAL RESOURCE PRODUCTION LLC	RAIDER FEDERAL COM #702H	Oil	New	O-21-24S-34E	32.19661800	-103.47186700
9823	30-025-46427	CENTENNIAL RESOURCE PRODUCTION LLC	RAIDER FEDERAL COM #701H	Oil	New	O-21-24S-34E	32.19661900	-103.47196400
61398	30-025-28641	CIMAREX ENERGY CO. OF COLORADO	VACA RIDGE 21 FEDERAL COM #001	Gas	Plugged (site released)	O-21-24S-34E	32.19761660	-103.47274780
7665	30-025-46429	CENTENNIAL RESOURCE PRODUCTION LLC	RAIDER FEDERAL COM #703H	Oil	New	P-21-24S-34E	32.19661400	-103.46769700
17384	30-025-46301	CENTENNIAL RESOURCE PRODUCTION LLC	RAIDER FEDERAL COM #503H	Oil	New	P-21-24S-34E	32.19661600	-103.46963700
23892	30-025-46299	CENTENNIAL RESOURCE PRODUCTION LLC	RAIDER FEDERAL #501H	Oil	New	P-21-24S-34E	32.19661600	-103.46983100
23893	30-025-46300	CENTENNIAL RESOURCE PRODUCTION LLC	RAIDER FEDERAL COM #502H	Oil	New	P-21-24S-34E	32.19661600	-103.46973400
54010	30-025-46362	CENTENNIAL RESOURCE PRODUCTION LLC	RAIDER FEDERAL COM #704H	Oil	New	P-21-24S-34E	32.19661400	-103.46760000
1595	30-025-43358	CENTENNIAL RESOURCE PRODUCTION LLC	SHEBA FEDERAL COM #001H	Oil	Active	A-22-24S-34E	32.20858750	-103.45101130
1650	30-025-43414	CENTENNIAL RESOURCE PRODUCTION LLC	SOLOMON FEDERAL COM #001H	Oil	New	B-22-24S-34E	32.20918930	-103.45477590
1552	30-025-45577	CENTENNIAL RESOURCE PRODUCTION LLC	SOLOMON FEDERAL COM #505H	Oil	New	C-22-24S-34E	32.20918800	-103.45931000
1556	30-025-45554	CENTENNIAL RESOURCE PRODUCTION LLC	JULIET FEDERAL COM #503H	Oil	New	C-22-24S-34E	32.20919100	-103.46191900
1574	30-025-43385	CENTENNIAL RESOURCE PRODUCTION LLC	JULIET FEDERAL COM #001H	Oil	Active	C-22-24S-34E	32.20919210	-103.45996790
1636	30-025-45576	CENTENNIAL RESOURCE PRODUCTION LLC	JULIET FEDERAL COM #504H	Oil	New	C-22-24S-34E	32.20919000	-103.46182200
1555	30-025-45557	CENTENNIAL RESOURCE PRODUCTION LLC	ROMEO FEDERAL COM #705H	Oil	New	D-22-24S-34E	32.20919200	-103.46374900
1598	30-025-45556	CENTENNIAL RESOURCE PRODUCTION LLC	ROMEO FEDERAL COM #706H	Oil	New	D-22-24S-34E	32.20919200	-103.46365200
1642	30-025-45555	CENTENNIAL RESOURCE PRODUCTION LLC	JULIET FEDERAL COM #707H	Oil	New	D-22-24S-34E	32.20919200	-103.46355400
1651	30-025-42999	CENTENNIAL RESOURCE PRODUCTION LLC	ROMEO FEDERAL COM #001H	Oil	Active	D-22-24S-34E	32.20919210	-103.46423440
82319	30-025-28235	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	Plugged (site released)	K-22-24S-34E	32.20123670	-103.45995330
82643	30-025-30179	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	Plugged (site released)	N-22-24S-34E	32.19760510	-103.46101380
1541	30-025-45404	CENTENNIAL RESOURCE PRODUCTION LLC	SHEBA FEDERAL COM #506H	Oil	New	O-22-24S-34E	32.19660600	-103.45505300
1568	30-025-45374	CENTENNIAL RESOURCE PRODUCTION LLC	SHEBA FEDERAL COM #711H	Oil	Active	O-22-24S-34E	32.19660500	-103.45395400
1575	30-025-45405	CENTENNIAL RESOURCE PRODUCTION LLC	SHEBA FEDERAL COM #507H	Oil	New	O-22-24S-34E	32.19660600	-103.45495500
1604	30-025-45376	CENTENNIAL RESOURCE PRODUCTION LLC	SOLOMON FEDERAL COM #710H	Oil	Active	O-22-24S-34E	32.19660500	-103.45405100
1639	30-025-45375	CENTENNIAL RESOURCE PRODUCTION LLC	SOLOMON FEDERAL COM #709H	Oil	Active	O-22-24S-34E	32.19660500	-103.45414800
36790	30-025-46514	MATADOR PRODUCTION COMPANY	BRAD LUMMIS COM #122H	Oil	New	C-23-24S-34E	32.20946740	-103.44205830
43126	30-025-45441	MATADOR PRODUCTION COMPANY	BRAD LUMMIS COM #212H	Oil	Active	C-23-24S-34E	32.20945160	-103.44219270
43235	30-025-45440	MATADOR PRODUCTION COMPANY	BRAD LUMMIS COM #112H	Oil	New	C-23-24S-34E	32.20940110	-103.44211600
43102	30-025-45709	MATADOR PRODUCTION COMPANY	BRAD LUMMIS FEDERAL COM #221H	Oil	New	D-23-24S-34E	32.20911030	-103.44790930
43144	30-025-45513	MATADOR PRODUCTION COMPANY	BRAD LUMMIS FEDERAL COM #201H	Oil	New	D-23-24S-34E	32.20910250	-103.44781280
43146	30-025-45580	MATADOR PRODUCTION COMPANY	BRAD LUMMIS FEDERAL COM #131H	Oil	New	D-23-24S-34E	32.20909460	-103.44771620
43166	30-025-45581	MATADOR PRODUCTION COMPANY	BRAD LUMMIS FEDERAL COM #211H	Oil	Active	D-23-24S-34E	32.20907900	-103.44752290
43185	30-025-45511	MATADOR PRODUCTION COMPANY	BRAD LUMMIS FEDERAL COM #111H	Oil	Active	D-23-24S-34E	32.20919230	-103.44790010
45482	30-025-45512	MATADOR PRODUCTION COMPANY	BRAD LUMMIS FEDERAL COM #121H	Oil	New	D-23-24S-34E	32.20908680	-103.44761960
74548	30-025-46354	EOG RESOURCES INC	KESTREL 26 FEDERAL #702H	Oil	New	M-26-24S-34E	32.18246200	-103.44609640
85799	30-025-29917	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Gas	Plugged (site released)	E-27-24S-34E	32.19034960	-103.46420290
91224	30-025-28321	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	Plugged (site released)	K-27-24S-34E	32.18671420	-103.45993040
63442	30-025-45939	EOG RESOURCES INC	PEREGRINE 27 FEDERAL COM #311H	Oil	New	M-27-24S-34E	32.18350790	-103.46470040
63361	30-025-46105	EOG RESOURCES INC	PEREGRINE 27 FEDERAL COM #707H	Oil	New	O-27-24S-34E	32.18198700	-103.45526230
63339	30-025-46108	EOG RESOURCES INC	PEREGRINE 27 FEDERAL COM #710H	Oil	New	P-27-24S-34E	32.18181950	-103.45189810
63363	30-025-46107	EOG RESOURCES INC	PEREGRINE 27 FEDERAL COM #709H	Oil	New	P-27-24S-34E	32.18181950	-103.45200470

JULIET FEDERAL COM 503H, 504H & SOLOMON FEDERAL COM 505H ON EXISTING JULIET FEDERAL COM 1H

SUPPLEMENTAL OIL & GAS SPREADSHEET TO TOPO "C"

DATE: 02-13-20 S.T.O.

OBJECTID	API	OPERATOR	WELL NAME	WELL TYPE	WELL STATUS	UNIT LETTER-SECTION-TOWNSHIP-RANGE	NAD 83 LATITUDE	NAD 83 LONGITUDE
63365	30-025-46106	EOG RESOURCES INC	PEREGRINE 27 FEDERAL COM #708H	Oil	New	P-27-24S-34E	32.18181960	-103.45211140
99688	30-025-44875	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #314H	Oil	New	A-28-24S-34E	32.19524100	-103.46850600
99813	30-025-44874	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #313H	Oil	New	A-28-24S-34E	32.19524110	-103.46861270
103309	30-025-44930	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #715H	Oil	New	A-28-24S-34E	32.19524090	-103.46839930
99796	30-025-44929	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #712H	Oil	New	B-28-24S-34E	32.19524390	-103.47159960
99917	30-025-44873	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #308H	Oil	New	B-28-24S-34E	32.19524590	-103.47488510
99919	30-025-44928	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #711H	Oil	New	B-28-24S-34E	32.19524390	-103.47170620
102602	30-025-44926	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #309H	Oil	New	B-28-24S-34E	32.19524670	-103.47477840
103308	30-025-44927	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #710H	Oil	New	B-28-24S-34E	32.19524400	-103.47181290
99687	30-025-44872	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #707H	Oil	New	C-28-24S-34E	32.19524680	-103.47499170
99812	30-025-44871	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #706H	Oil	New	C-28-24S-34E	32.19524900	-103.47749650
99916	30-025-44870	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #705H	Oil	New	C-28-24S-34E	32.19524910	-103.47760310
103305	30-025-44869	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #704H	Oil	New	C-28-24S-34E	32.19524920	-103.47770980
102787	30-025-28488	EOG RESOURCES INC	PITCHFORK RANCH 28 FEDERAL COM #001	Gas	Active	G-28-24S-34E	32.19035720	-103.47274020
102847	30-025-27826	EOG RESOURCES INC	MADERA 28 FEDERAL COM #001	Gas	Active	N-28-24S-34E	32.18309780	-103.47696690
103009	30-025-29862	EOG RESOURCES INC	MADERA 28 FEDERAL COM #002	Gas	Plugged (site released)	N-28-24S-34E	32.18309780	-103.47625730
103281	30-025-29926	EOG RESOURCES INC	MADERA 33 FEDERAL COM #004	Gas	Plugged (site released)	J-33-24S-34E	32.17310330	-103.47270200
112204	30-025-28596	JOHNNY G JONES	MOORE 34 COM #001	Oil	Plugged (site released)	G-34-24S-34E	32.17582320	-103.45564270
99734	30-025-28002	EOG RESOURCES INC	PITCHFORK 34 FEDERAL COM #001	Gas	Active	L-34-24S-34E	32.17219160	-103.46417240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Solomon Federal Com 505H
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Future Well
PIPE RACK
Future Well
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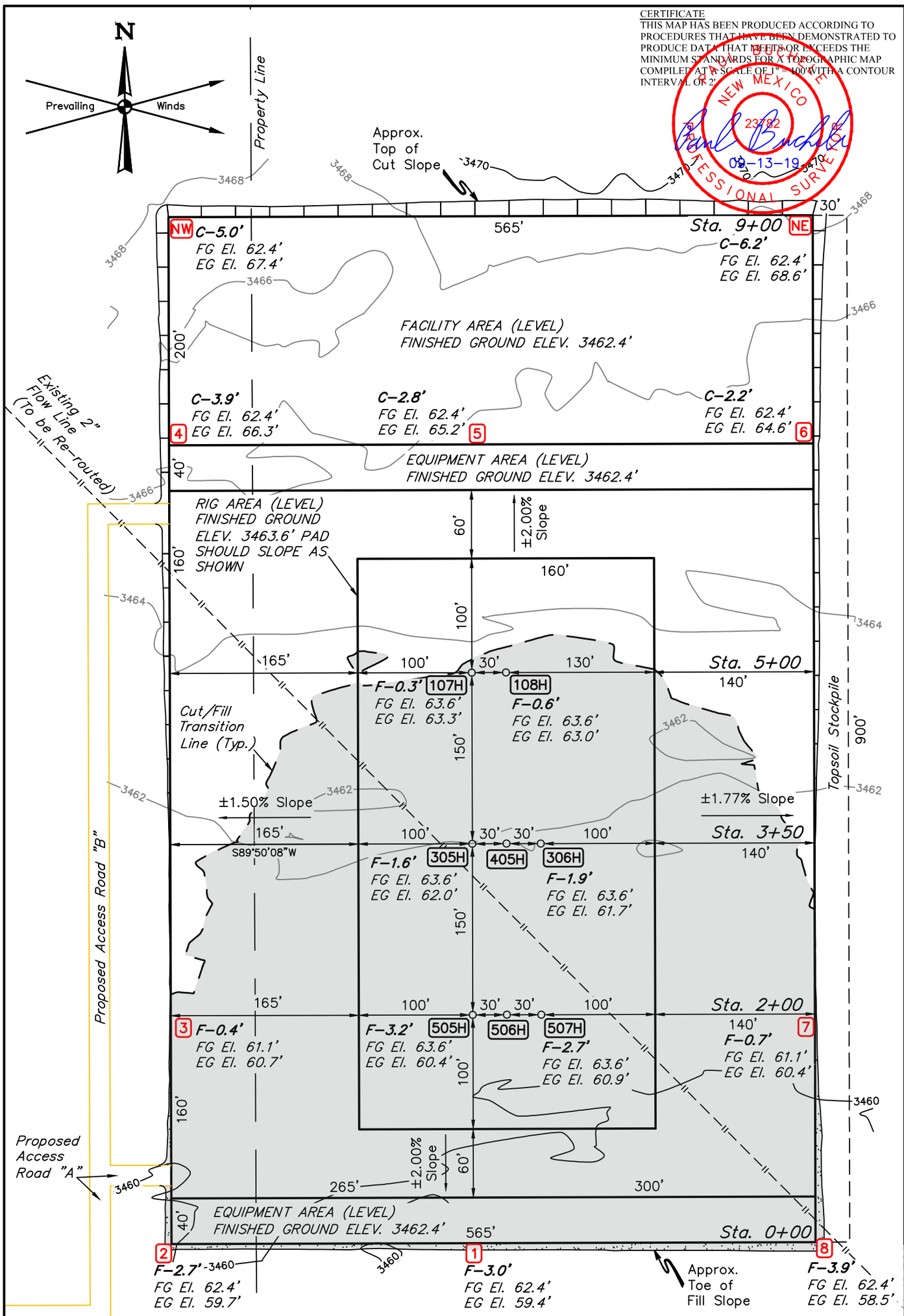
S
CTB Pad Dimensions: 500' x 300'
Access Road Entrance
Juliet/ Romeo/ Solomon CTB 1 Facilities



NOTE: Earthwork Calculations Require a Fill @ the Location Stakes 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:

- Contours shown at 2' intervals.
- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00"

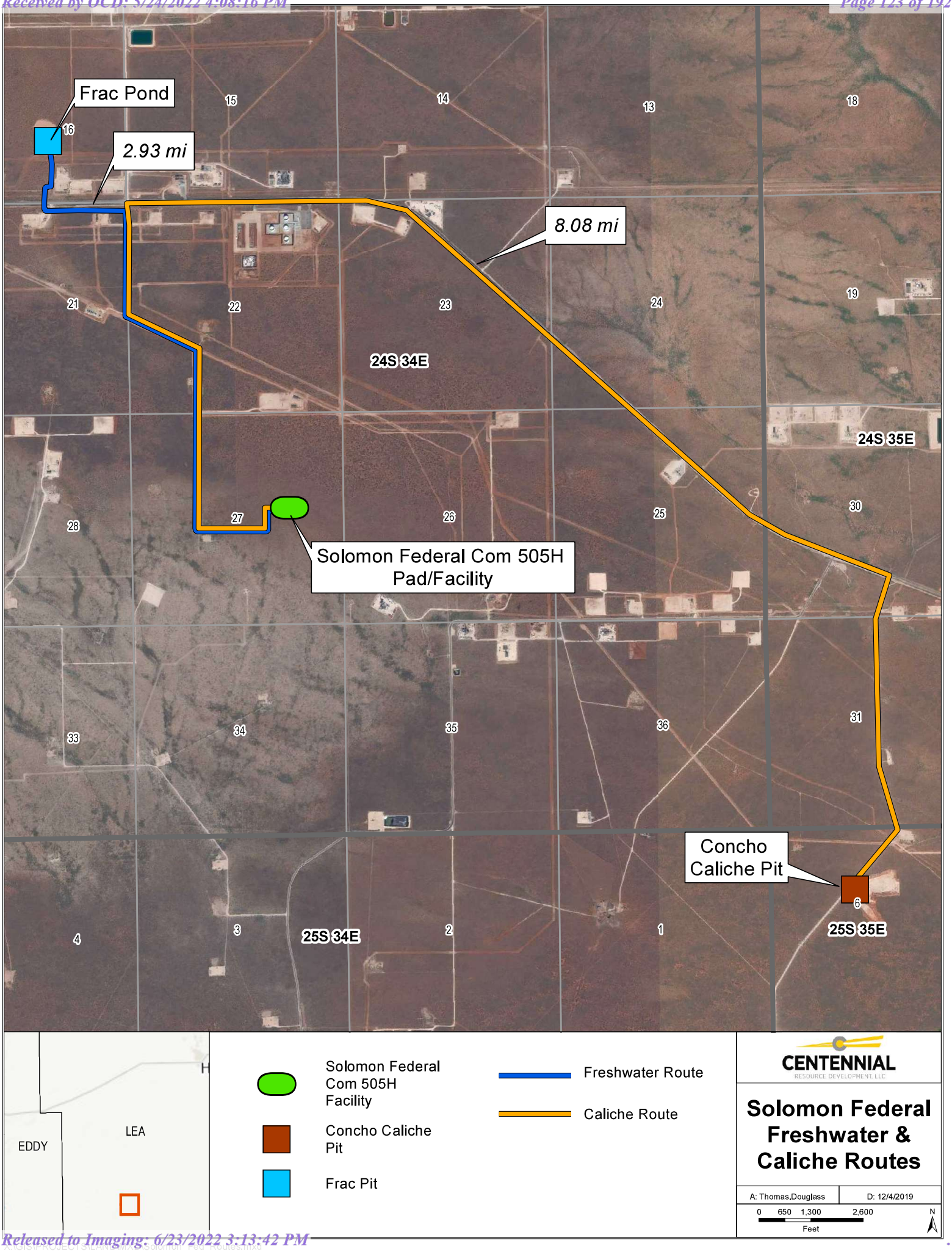
CENTENNIAL RESOURCE PRODUCTION, LLC

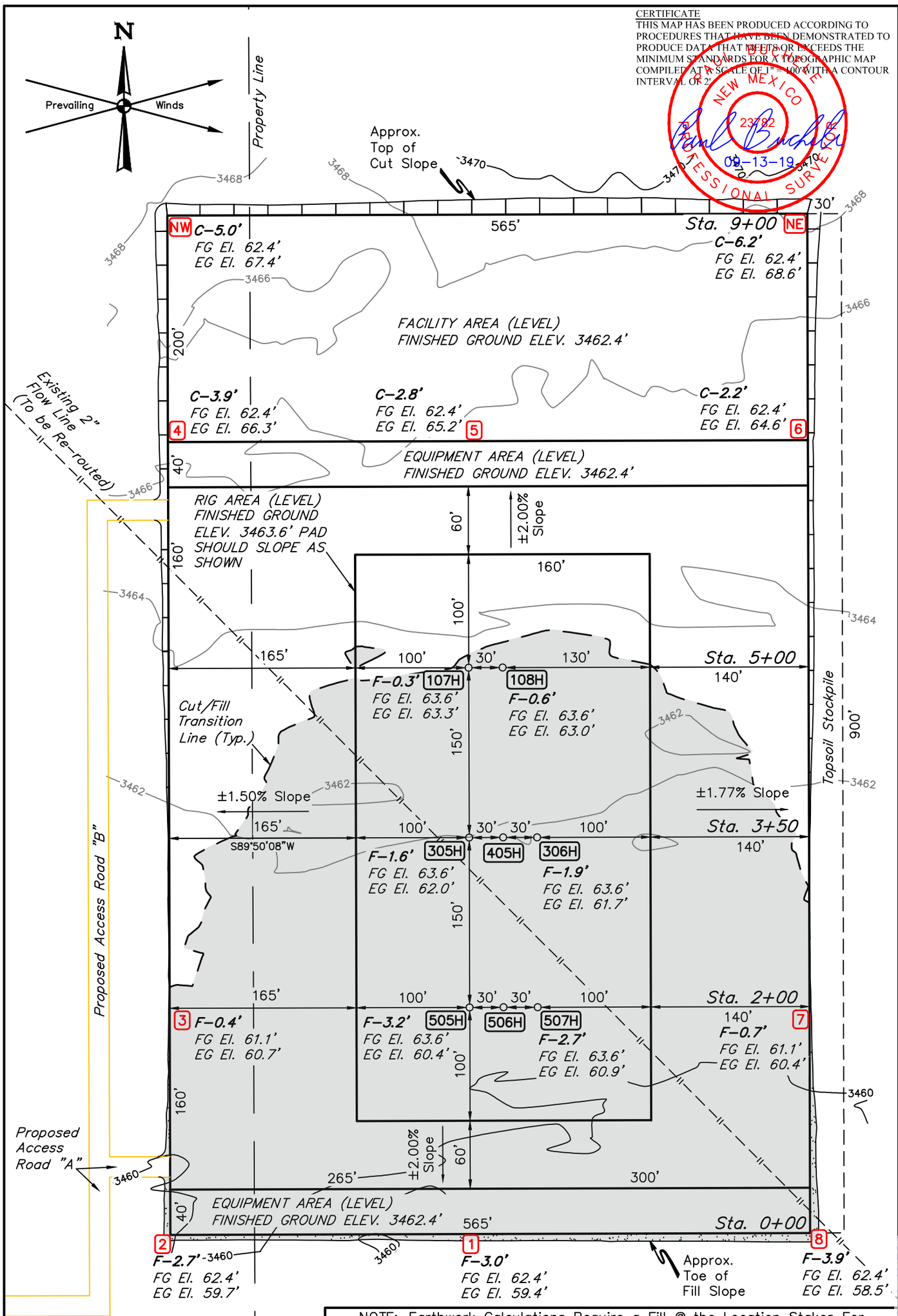
SOLOMON FEDERAL COM 505H & SHEBA FEDERAL COM 107H, 108H, 305H, 306H, 405H, 506H & 507H
SE 1/4 NE 1/4, SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C.	08-23-19	SCALE
DRAWN BY	D.J.S.	09-12-19	1" = 100'

LOCATION LAYOUT | **FIGURE #1**

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





NOTE: Earthwork Calculations Require a Fill @ the Location Stakes 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:

- Contours shown at 2' intervals.
- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00"

CENTENNIAL RESOURCE PRODUCTION, LLC

SOLOMON FEDERAL COM 505H & SHEBA FEDERAL COM 107H, 108H, 305H, 306H, 405H, 506H & 507H
SE 1/4 NE 1/4, SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

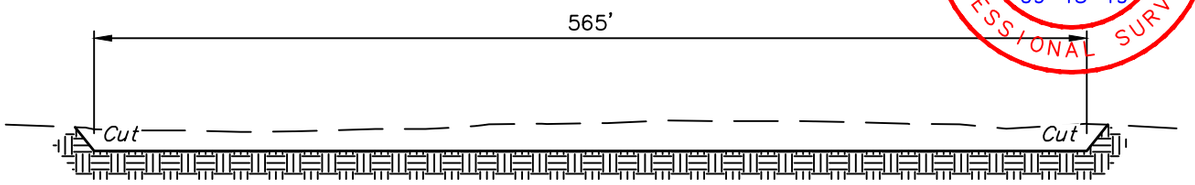
SURVEYED BY	B.B., R.C.	08-23-19	SCALE
DRAWN BY	D.J.S.	09-12-19	1" = 100'

LOCATION LAYOUT | **FIGURE #1**

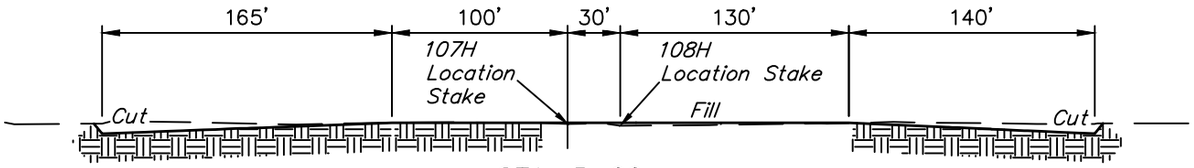
UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

1" = 40'
X-Section Scale
1" = 100'

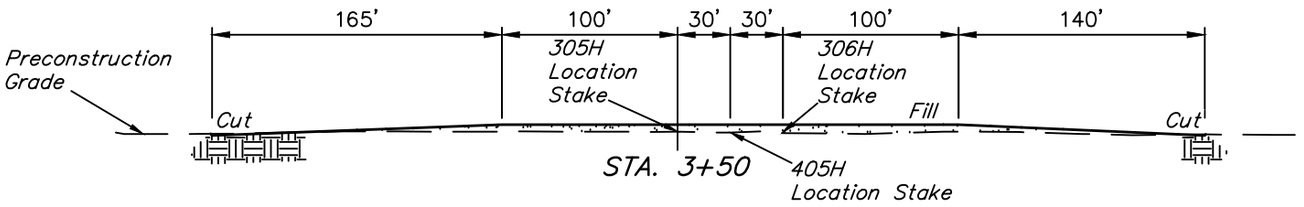
PAUL BUCHELE
NEW MEXICO
23782
09-13-19
PROFESSIONAL SURVEYOR



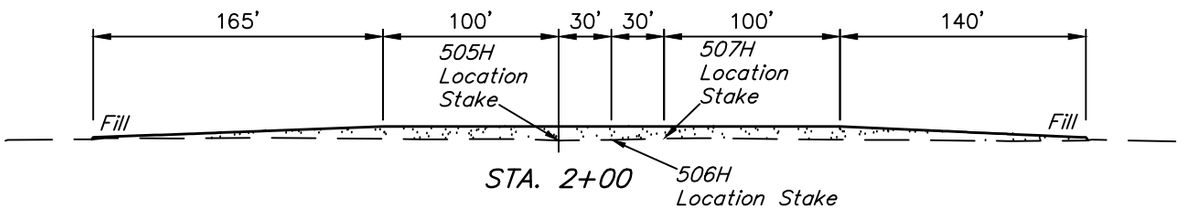
STA. 9+00



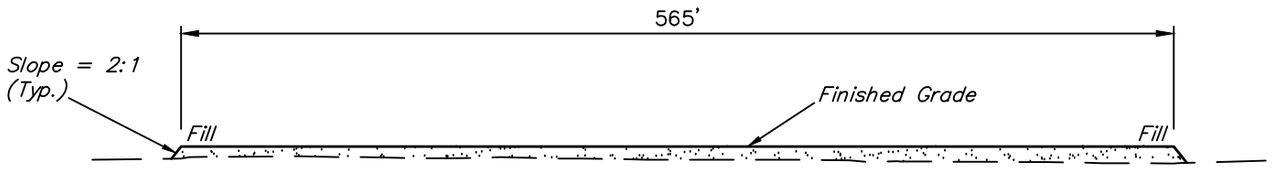
STA. 5+00



STA. 3+50



STA. 2+00



STA. 0+00

APPROXIMATE EARTHWORK QUANTITIES	
(4") TOPSOIL STRIPPING	6,510 Cu. Yds.
REMAINING LOCATION	23,890 Cu. Yds.
TOTAL CUT	**30,400 Cu. Yds.**
FILL	**23,890 Cu. Yds.**
EXCESS MATERIAL	6,510 Cu. Yds.
TOPSOIL	6,510 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	**0 Cu. Yds.**

APPROXIMATE SURFACE DISTURBANCE AREAS		
	DISTANCE	**ACRES**
SURFACE USE AREA (SEE ROMEO-JULIET-SOLOMON-SHEBA PADS "EXHIBIT A")	NA	±12.862
65' WIDE ACCESS ROAD "A" R-O-W DISTURBANCE	±1019.91'	±1.522
65' WIDE ACCESS ROAD "B" R-O-W DISTURBANCE	±642.50'	±0.959
TOTAL SURFACE USE AREA		**±15.343**

NOTES:

- Fill quantity includes 5% for compaction.

CENTENNIAL RESOURCE PRODUCTION, LLC

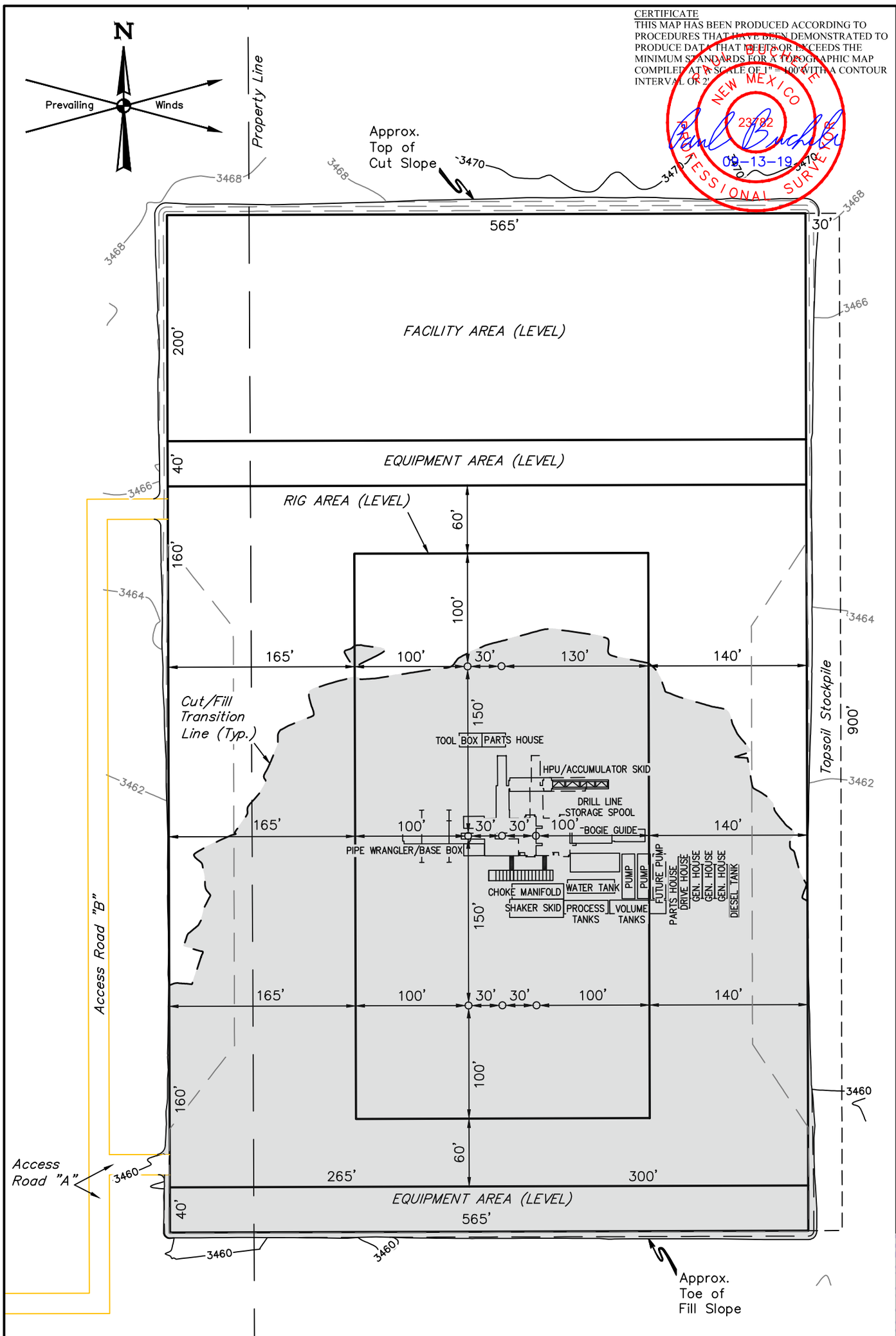
SOLOMON FEDERAL COM 505H & SHEBA FEDERAL COM 107H, 108H, 305H, 306H, 405H, 506H & 507H
SE 1/4 NE 1/4, SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C.	08-23-19	**SCALE**
DRAWN BY	D.J.S.	09-12-19	AS SHOWN

TYPICAL CROSS SECTIONS **FIGURE #2**

UINTAH ENGINEERING & LAND SURVEYING

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



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'.

STATE OF NEW MEXICO
23782
Paul Buchheit
08-13-19
PROFESSIONAL SURVEYOR

NOTES:

- Contours shown at 2' intervals.

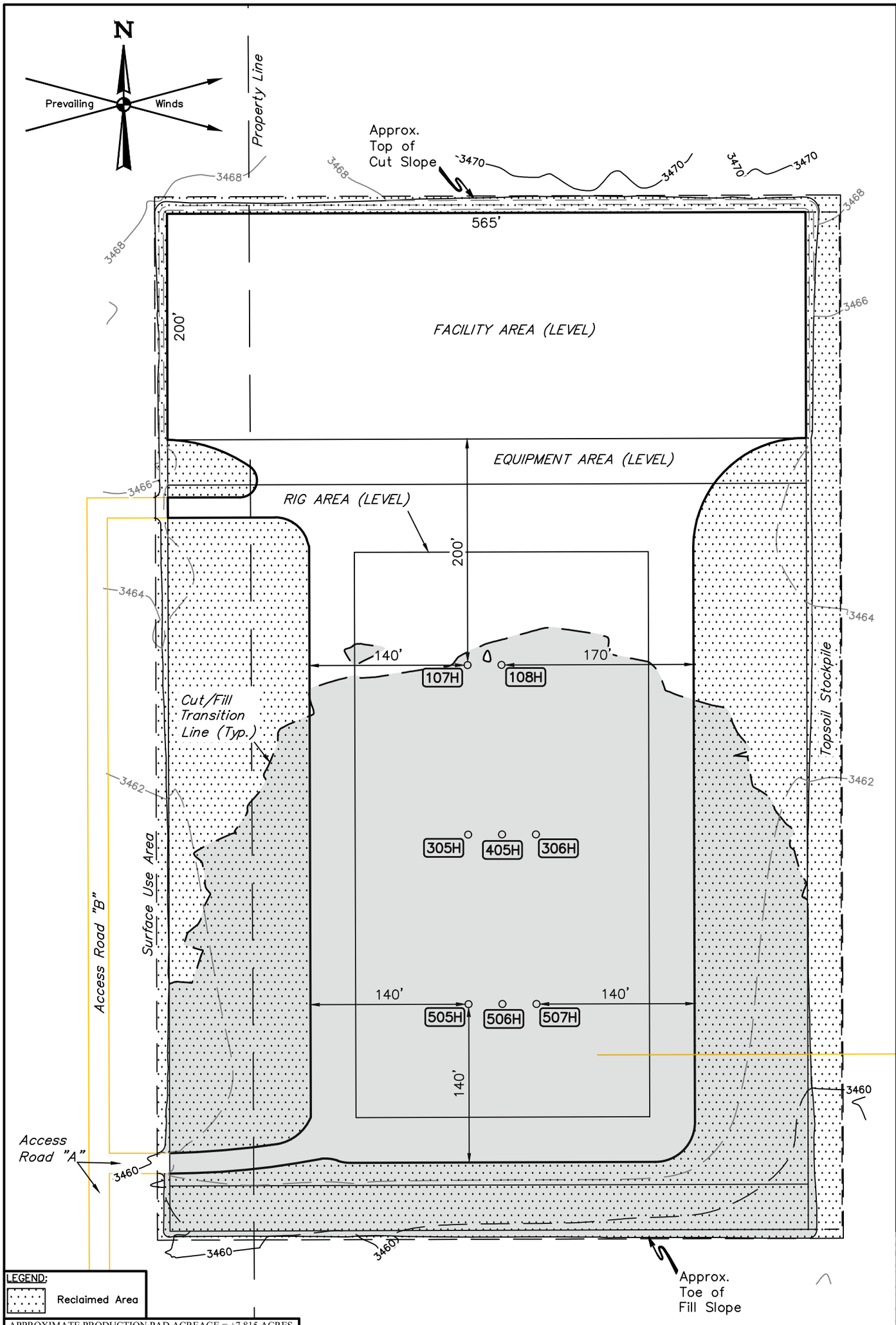
CENTENNIAL RESOURCE PRODUCTION, LLC

SOLOMON FEDERAL COM 505H & SHEBA FEDERAL COM 107H, 108H, 305H, 306H, 405H, 506H & 507H
SE 1/4 NE 1/4, SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C.	08-23-19	SCALE
DRAWN BY	D.J.S.	09-12-19	1" = 100'

TYPICAL RIG LAYOUT | **FIGURE #3**

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



LEGEND:

Reclaimed Area

APPROXIMATE PRODUCTION PAD ACREAGE = ±7.815 ACRES
APPROXIMATE RECLAIMED AREA ACREAGE = ±5.047 ACRES
TOTAL ACREAGE = ±12.862 ACRES

NOTES:

- Contours shown at 2' intervals.

CENTENNIAL RESOURCE PRODUCTION, LLC

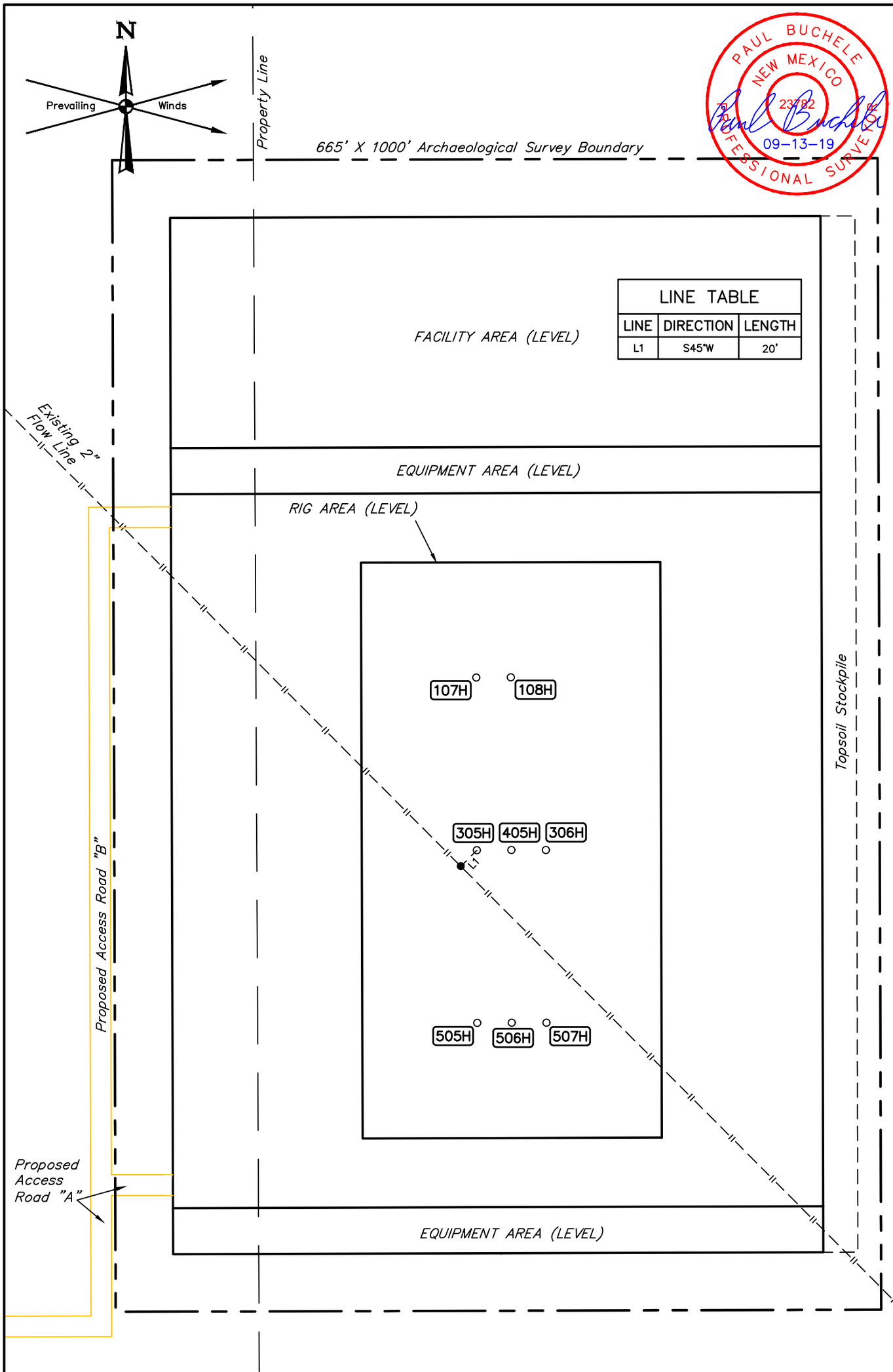
SOLOMON FEDERAL COM 505H & SHEBA FEDERAL COM 107H, 108H, 305H, 306H, 405H, 506H & 507H
SE 1/4 NE 1/4, SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C.	08-23-19	SCALE
DRAWN BY	D.J.S.	09-12-19	1" = 100'

RECLAMATION DIAGRAM | **FIGURE #4**

UINTAH ENGINEERING & LAND SURVEYING

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



NOTES:

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

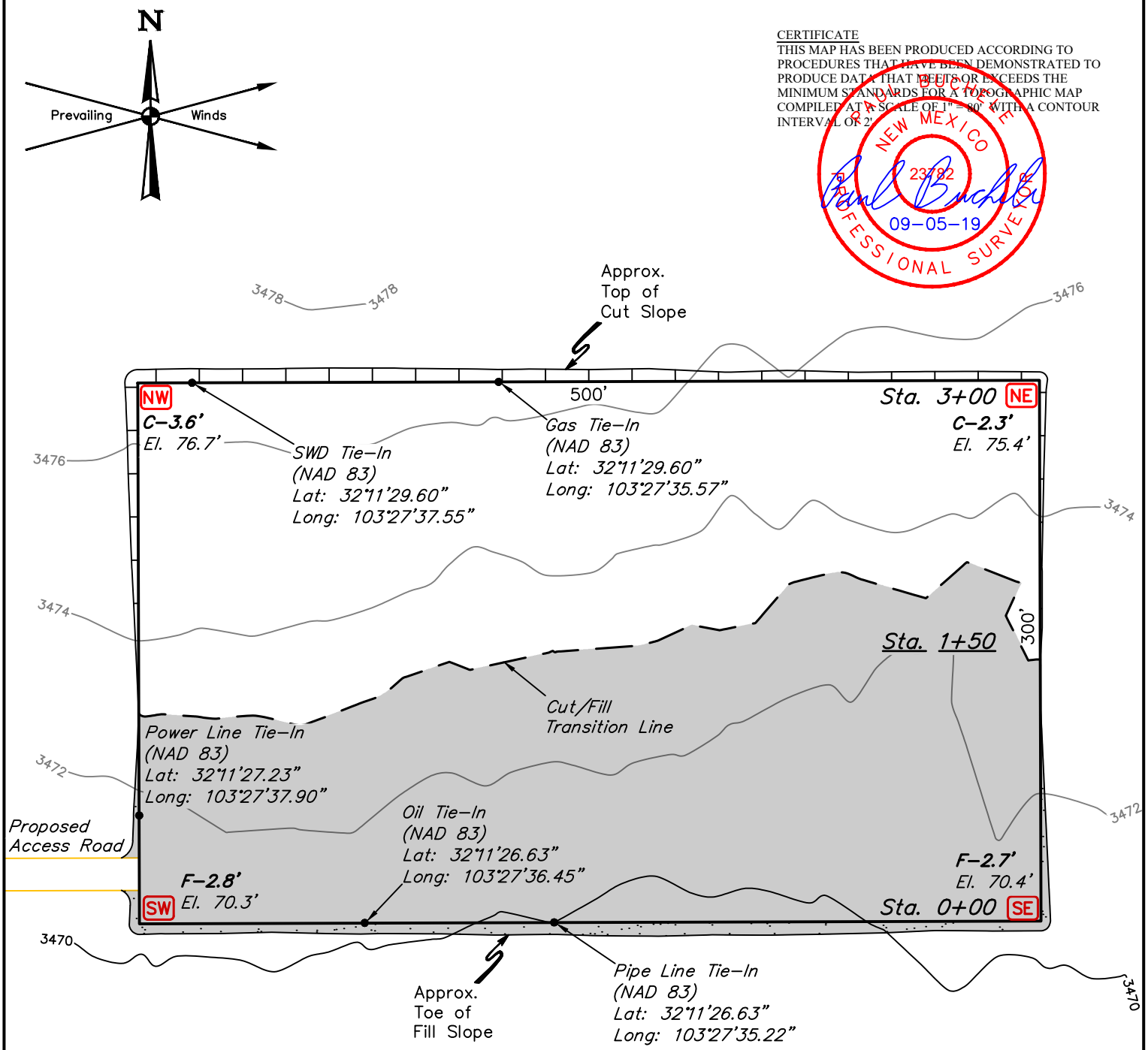
CENTENNIAL RESOURCE PRODUCTION, LLC

SOLOMON FEDERAL COM 505H & SHEBA FEDERAL COM 107H, 108H, 305H, 306H, 405H, 506H & 507H
SE 1/4 NE 1/4, SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C.	08-23-19	SCALE
DRAWN BY	D.J.S.	09-12-19	1" = 100'
ARCHAEOLOGICAL SURVEY BOUNDARY			FIGURE #5

UINTAH ENGINEERING & LAND SURVEYING

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



FINISHED GRADE ELEVATION = **3473.1'**

NOTES:

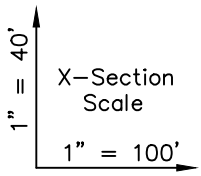
- Contours shown at 2' intervals.
- Cut/Fill slopes 2:1 (Typ.)
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00"

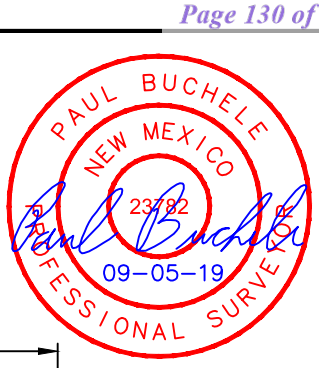
CENTENNIAL RESOURCE PRODUCTION, LLC

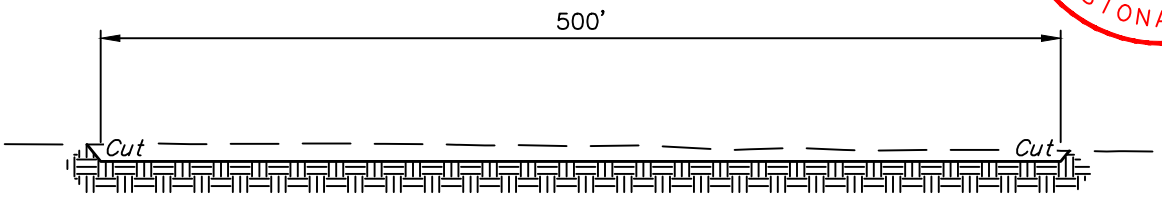
ROMEO-JULIET FEDERAL COM AREA CTB
SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

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

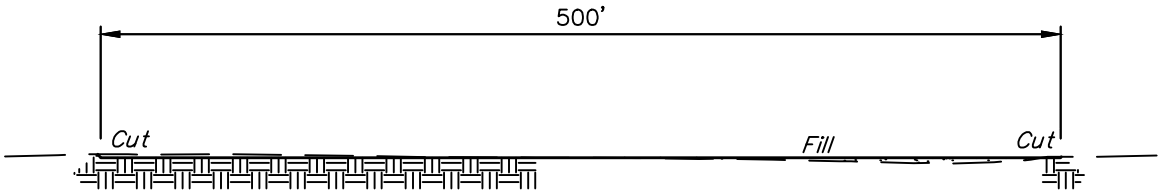
SURVEYED BY	B.B., R.C.	08-23-19	**SCALE**
DRAWN BY	R.J.	09-05-19	1" = 80'
LOCATION LAYOUT			**FIGURE #1**



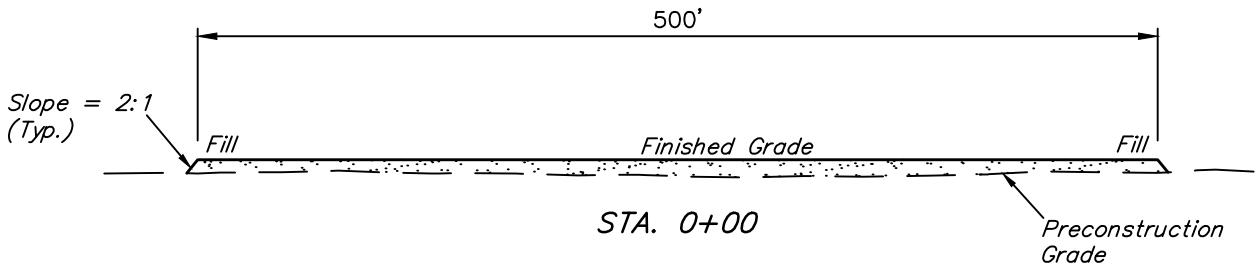




STA. 3+00



STA. 1+50



STA. 0+00

APPROXIMATE PAD EARTHWORK QUANTITIES	
CUT	4,430 Cu. Yds.
FILL	4,430 Cu. Yds.
TOTAL	**0 Cu. Yds.**

APPROXIMATE SURFACE DISTURBANCE AREAS		
	DISTANCE	**ACRES**
SURFACE USE AREA (SEE ROMEO-JULIET-SOLOMON-SHEBA PADS EXHIBIT "A")	NA	±3.741
65' WIDE ACCESS ROAD R-O-W DISTURBANCE	±87.48'	±0.131
TOTAL SURFACE USE AREA		**±3.872**

NOTES:

- Fill quantity includes 5% for compaction.
- Cut/Fill slopes 2:1 (Typ.)

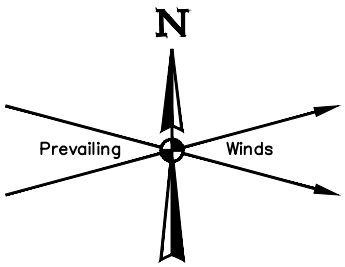
CENTENNIAL RESOURCE PRODUCTION, LLC

ROMEO-JULIET FEDERAL COM AREA CTB
SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

UINTAH ENGINEERING & LAND SURVEYING

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

SURVEYED BY	B.B., R.C.	08-23-19	SCALE
DRAWN BY	R.J.	09-05-19	AS SHOWN
TYPICAL CROSS SECTIONS			**FIGURE #2**



PAUL BUCHELE
NEW MEXICO
23782
PROFESSIONAL SURVEYOR
09-05-19

600' X 400'
Archaeological Survey Boundary

Proposed
Access Road

CENTENNIAL RESOURCE PRODUCTION, LLC

ROMEO-JULIET FEDERAL COM AREA CTB
SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

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

SURVEYED BY	B.B., R.C.	08-23-19	SCALE
DRAWN BY	R.J.	09-05-19	1" = 80'
ARCHAEOLOGICAL SURVEY BOUNDARY			FIGURE #5

PROCEED IN A WESTERLY, THEN NORTHWESTERLY, THEN WESTERLY DIRECTION FROM JAL, NEW MEXICO ALONG NM-128 APPROXIMATELY 18.0 MILES TO THE JUNCTION OF THIS ROAD AND COUNTY ROAD 2-B TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 1.2 MILES TO THE BEGINNING OF THE PROPOSED ROMEO FEDERAL COM 304H & JULIET FEDERAL COM 402H ACCESS ROAD TO THE SOUTH; FOLLOW ROAD FLAGS IN A SOUTHERLY DIRECTION APPROXIMATELY 1,875' TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY DIRECTION APPROXIMATELY 87' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM JAL, NEW MEXICO TO THE PROPOSED LOCATION IS APPROXIMATELY 19.6 MILES.

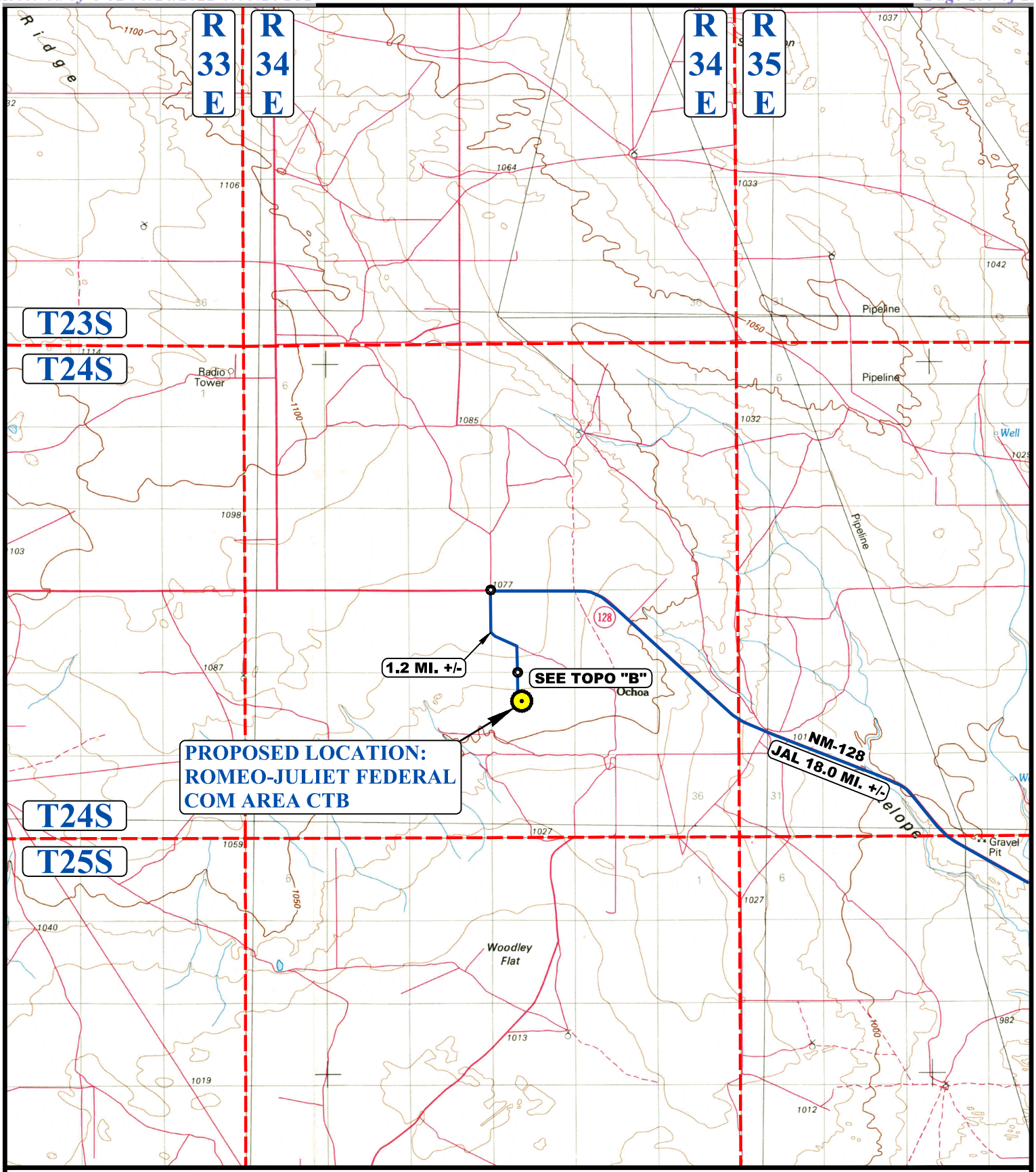
CENTENNIAL RESOURCE PRODUCTION, LLC

ROMEO-JULIET FEDERAL COM AREA CTB
SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

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

SURVEYED BY	B.B., R.C.	08-23-19	
DRAWN BY	S.T.O.	09-06-19	

ROAD DESCRIPTION



LEGEND:

PROPOSED LOCATION

N

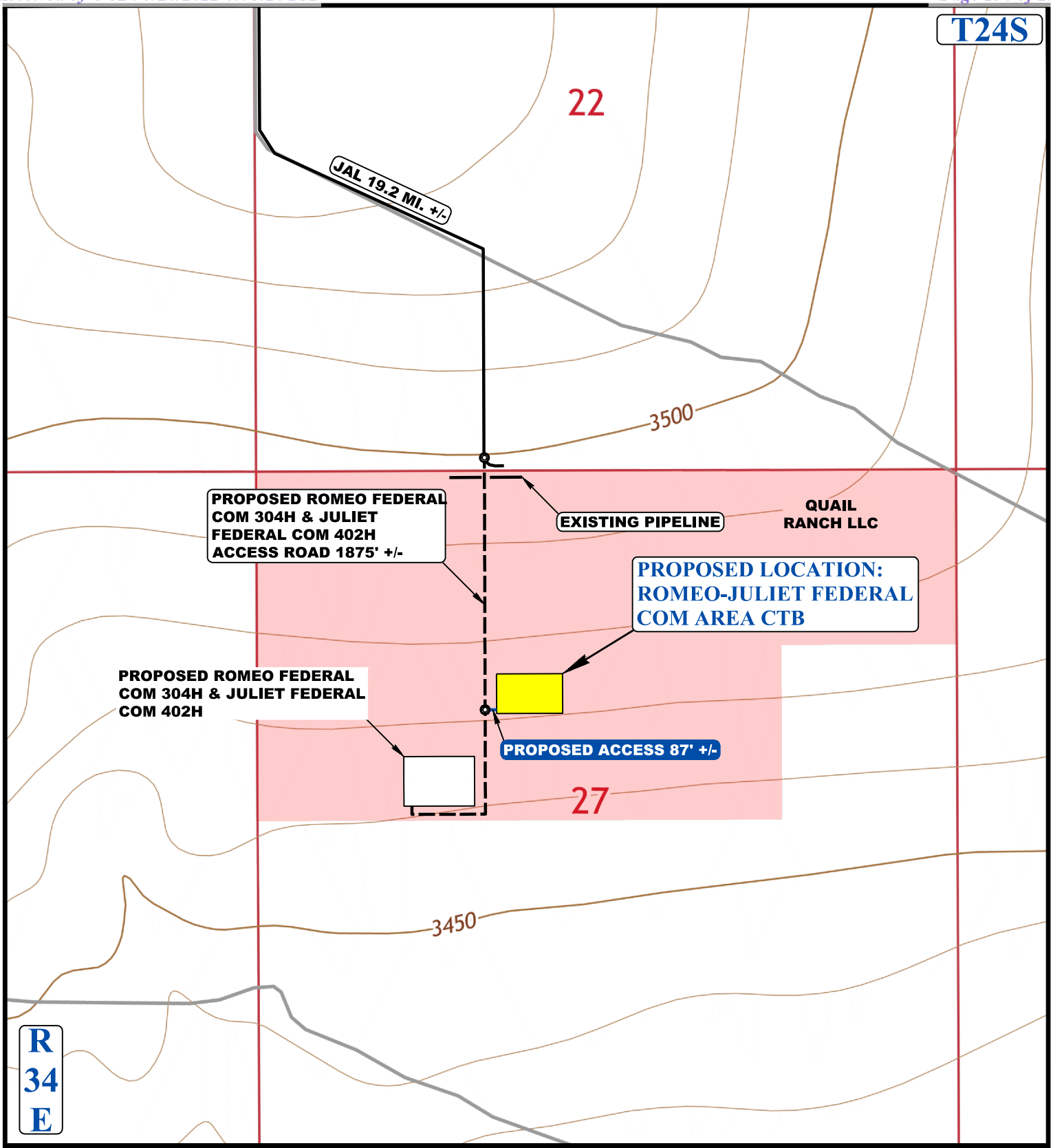
CENTENNIAL RESOURCE PRODUCTION, LLC

ROMEO-JULIET FEDERAL COM AREA CTB
SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C.	08-23-19	SCALE
DRAWN BY	S.T.O.	09-06-19	1 : 100,000
ACCESS ROAD MAP			TOPO A

UINTAH ENGINEERING & LAND SURVEYING

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



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
- PROPOSED ROAD (SERVICING OTHER WELLS)
- EXISTING PIPELINE

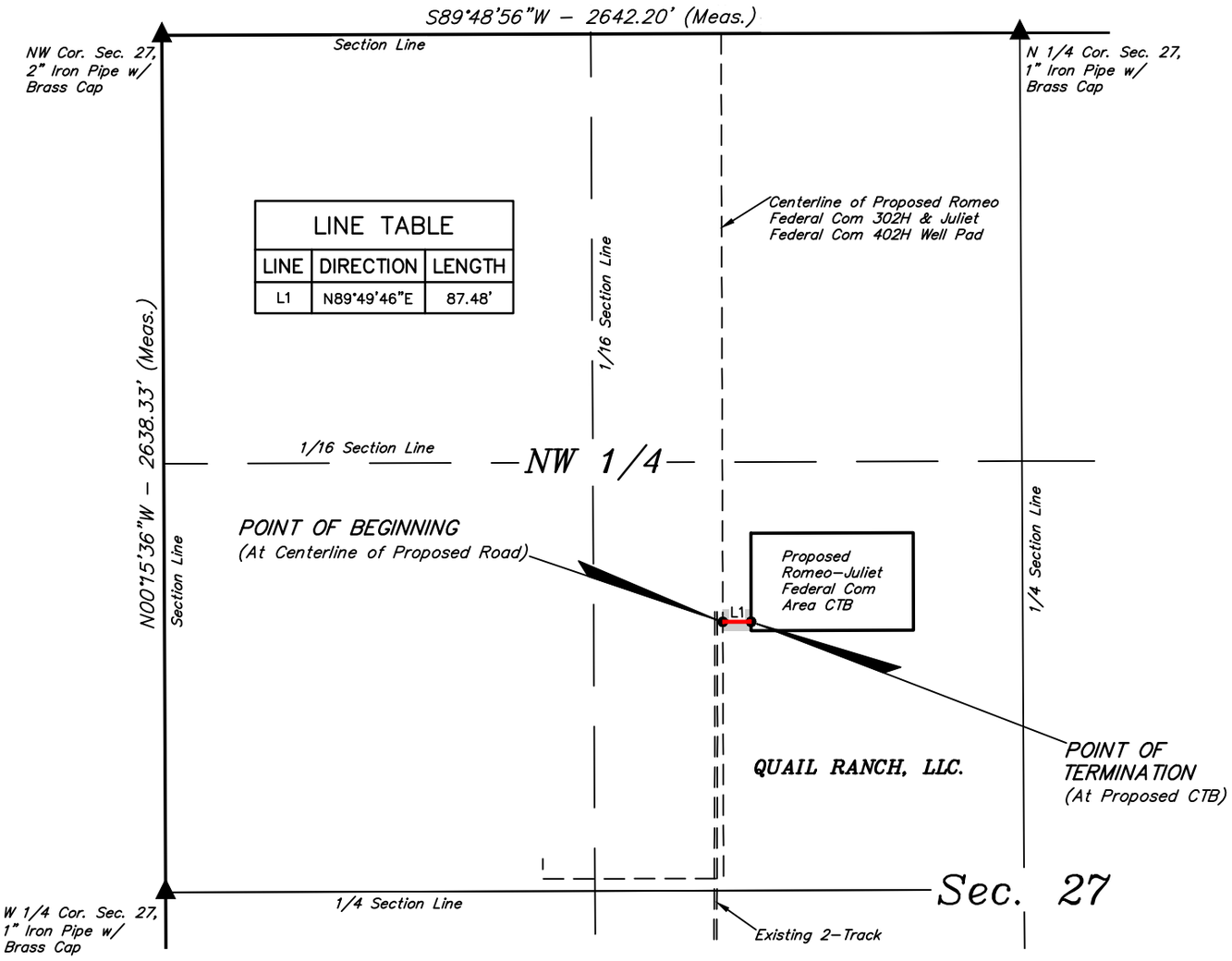
N

CENTENNIAL RESOURCE PRODUCTION, LLC

ROMEO-JULIET FEDERAL COM AREA CTB
SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C.	08-23-19	SCALE
DRAWN BY	S.T.O.	09-06-19	1 : 12,000
ACCESS ROAD MAP			TOPO B

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



PROPOSED ROAD RIGHT–OF–WAY DESCRIPTION

A 65' WIDE RIGHT–OF–WAY 37.5' ON THE LEFT SIDE AND 27.5' ON THE RIGHT SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE SE 1/4 NW 1/4 OF SECTION 27, T24S, R34E, N.M.P.M., WHICH BEARS N64°06'54"E 1907.01' FROM THE WEST 1/4 CORNER OF SAID SECTION 27, THENCE N89°49'46"E 87.48' TO A POINT IN THE SE 1/4 NW 1/4 OF SAID SECTION 27, AND THE POINT OF TERMINATION, WHICH BEARS N65°12'36"E 1986.18' FROM THE WEST 1/4 CORNER OF SAID SECTION 27. THE SIDE LINES OF SAID DESCRIBED RIGHT–OF–WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A TRANSVERSE MERCATOR PROJECTION WITH A CENTRAL MERIDIAN OF W103°53'00". CONTAINS 0.131 ACRES MORE OR LESS.

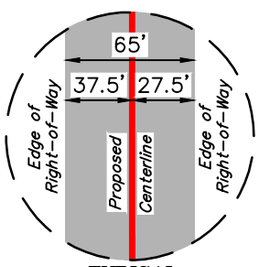
POINT OF BEGINNING BEARS N64°06'54"E 1907.01' FROM THE WEST 1/4 CORNER OF SECTION 27, T24S, R34E, N.M.P.M.

POINT OF TERMINATION BEARS N65°12'36"E 1986.18' FROM THE WEST 1/4 CORNER OF SECTION 27, T24S, R34E, N.M.P.M.

500' 250' 0' 500'

ACREAGE / LENGTH TABLE		
FEET	RODS	ACRES
87.48	5.30	0.131

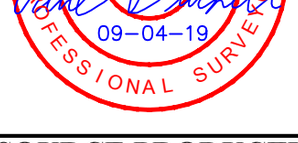
▲ = SECTION CORNERS LOCATED.



TYPICAL RIGHT–OF–WAY DETAIL
NO SCALE

FILE: C-7103

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.



NOTES:
- The maximum grade of existing ground for the proposed access road is ±0.13%.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00"

UINTAH ENGINEERING & LAND SURVEYING

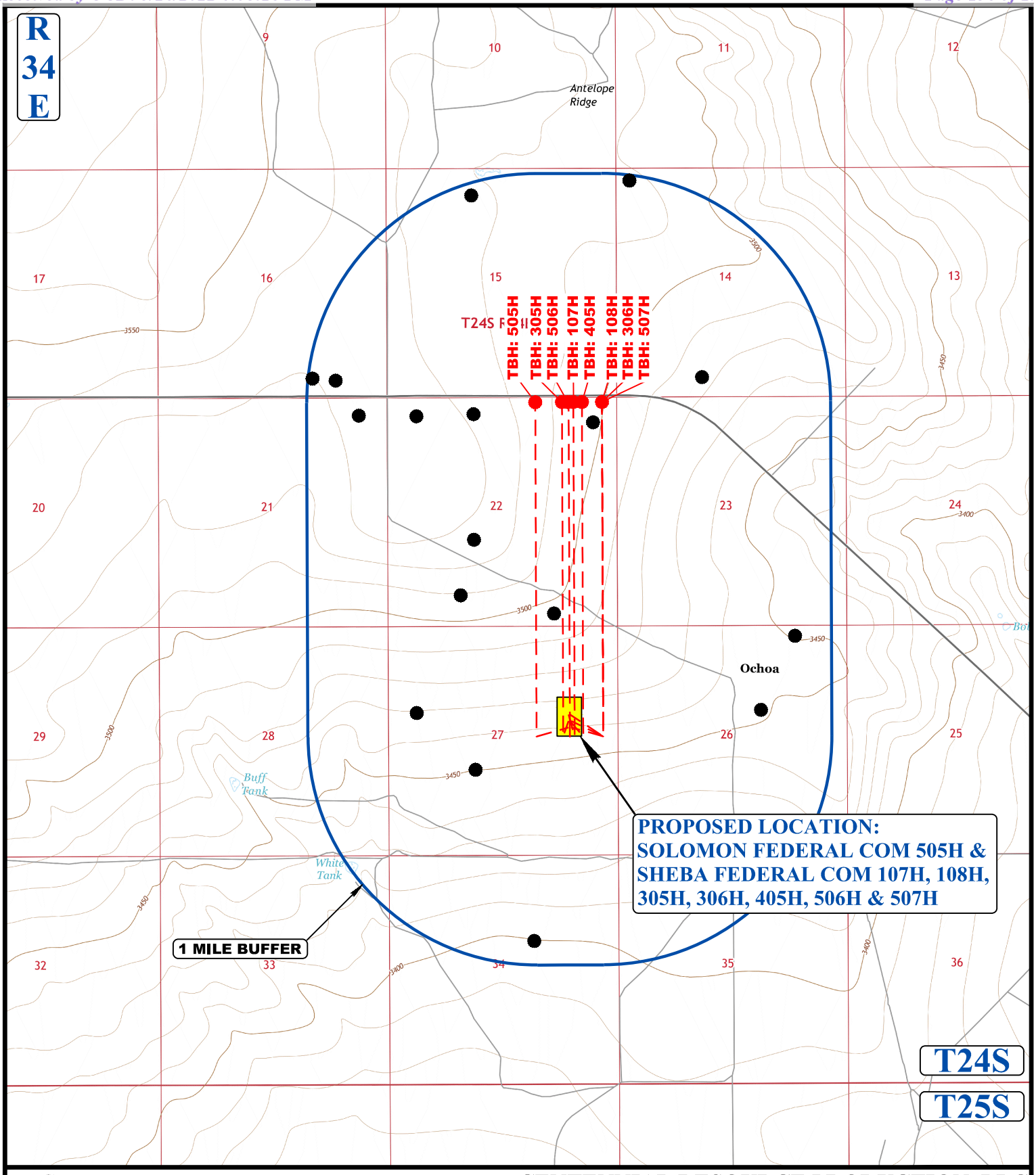
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

CENTENNIAL RESOURCE PRODUCTION, LLC

ROMEO-JULIET FEDERAL COM AREA CTB ON QUAIL RANCH, LLC. LANDS IN SECTION 27, T24S, R34E, N.M.P.M. REEVES COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C.	08-23-19	SCALE
DRAWN BY	A.G.	09-04-19	1" = 500'

PROPOSED ACCESS ROAD R-O-W



LEGEND:

● EXISTING WELLS

N

CENTENNIAL RESOURCE PRODUCTION, LLC

SOLOMON FEDERAL COM 505H & SHEBA FEDERAL COM 107H, 108H, 305H, 306H, 405H, 506H & 507H
SE 1/4 NE 1/4, SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C.	08-23-19	SCALE
DRAWN BY	S.T.O.	09-12-19	1 : 24,000
WELL PROXIMITY MAP			TOPO C

UINTAH ENGINEERING & LAND SURVEYING

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

JULIET FEDERAL COM 503H, 504H & SOLOMON FEDERAL COM 505H ON EXISTING JULIET FEDERAL COM 1H

SUPPLEMENTAL OIL & GAS SPREADSHEET TO TOPO "C"

DATE: 02-13-20 S.T.O.

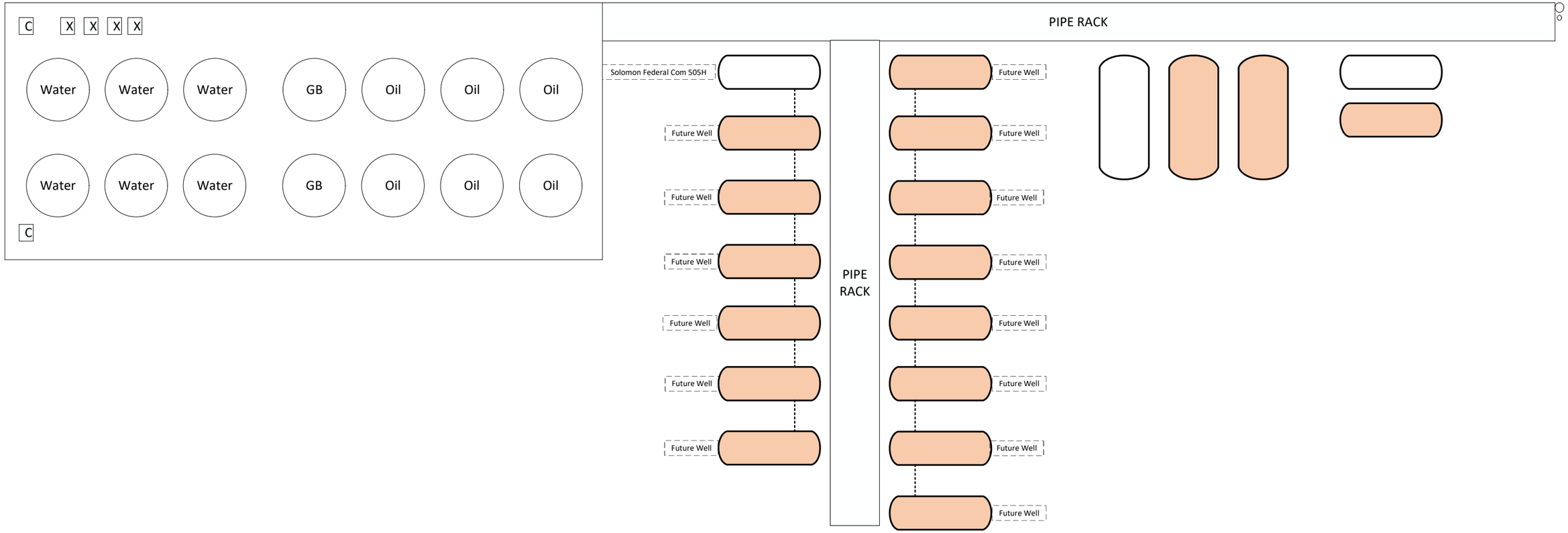
OBJECTID	API	OPERATOR	WELL NAME	WELL TYPE	WELL STATUS	UNIT LETTER-SECTION-TOWNSHIP-RANGE	NAD 83 LATITUDE	NAD 83 LONGITUDE
96265	30-025-42448	OWL SWD OPERATING LLC	MADERA SWD #001	Salt Water Disposal	Active	N-14-24S-34E	32.21148421	-103.44286420
29008	30-025-27572	STRATA PRODUCTION CO	BUCKEYE #001	Oil	Plugged (site released)	C-15-24S-34E	32.22302250	-103.45999150
97	30-025-45462	MARATHON OIL PERMIAN LLC	FLOWMASTER 15 FB FEE #016H	Oil	New	N-15-24S-34E	32.21200950	-103.45940230
118	30-025-45461	MARATHON OIL PERMIAN LLC	FLOWMASTER 15 WD FEE #012H	Gas	New	N-15-24S-34E	32.21200886	-103.45930510
138	30-025-44684	MARATHON OIL PERMIAN LLC	FLOWMASTER FEE 24 34 15 TB #010H	Oil	New	N-15-24S-34E	32.21190551	-103.46027630
139	30-025-44687	MARATHON OIL PERMIAN LLC	FLOWMASTER FEE 24 34 15 WA #014H	Oil	Active	N-15-24S-34E	32.21190496	-103.46017920
145	30-025-45460	MARATHON OIL PERMIAN LLC	FLOWMASTER 15 WB FEE #011H	Gas	New	N-15-24S-34E	32.21201081	-103.45963400
146	30-025-45463	MARATHON OIL PERMIAN LLC	FLOWMASTER 15 AV FEE #017H	Oil	New	N-15-24S-34E	32.21201020	-103.45949930
1404	30-025-44689	MARATHON OIL PERMIAN LLC	FLOWMASTER 15 WXY FEE #002H	Oil	Active	N-15-24S-34E	32.21190550	-103.46027630
63405	30-025-45965	MARATHON OIL PERMIAN LLC	FLOWMASTER 15 FB FEE #015H	Oil	Active	N-15-24S-34E	32.21190671	-103.46037340
66929	30-025-46000	MARATHON OIL PERMIAN LLC	WILL KANE 15 WXY FEE #010H	Gas	Active	O-15-24S-34E	32.21170309	-103.45357800
66945	30-025-45997	MARATHON OIL PERMIAN LLC	WILL KANE 15 WA FEE #006H	Oil	Active	O-15-24S-34E	32.21170365	-103.45367500
66946	30-025-45999	MARATHON OIL PERMIAN LLC	WILL KANE 15 WXY FEE #003H	Oil	Active	O-15-24S-34E	32.21170462	-103.45377180
66944	30-025-45998	MARATHON OIL PERMIAN LLC	WILL KANE 15 WA FEE #011H	Oil	Active	P-15-24S-34E	32.21170261	-103.45348100
99921	30-025-45380	EOG RESOURCES INC	JOLLY ROGER 16 STATE #708H	Oil	Active	N-16-24S-34E	32.21200450	-103.47698430
102603	30-025-45379	EOG RESOURCES INC	JOLLY ROGER 16 STATE #707H	Oil	Active	N-16-24S-34E	32.21200470	-103.47709100
1576	30-025-40566	CENTENNIAL RESOURCE PRODUCTION LLC	PIRATE STATE #001H	Oil	Active	O-16-24S-34E	32.21158600	-103.47171020
1615	30-025-43917	CENTENNIAL RESOURCE PRODUCTION LLC	PIRATE STATE #101H	Oil	Active	P-16-24S-34E	32.21130300	-103.46745800
1623	30-025-44426	CENTENNIAL RESOURCE PRODUCTION LLC	PIRATE STATE #301H	Oil	Active	P-16-24S-34E	32.21133500	-103.47020400
1546	30-025-43408	CENTENNIAL RESOURCE PRODUCTION LLC	RAIDER FEDERAL COM #101H	Oil	Active	A-21-24S-34E	32.20919490	-103.46850280
1620	30-025-43401	CENTENNIAL RESOURCE PRODUCTION LLC	RAIDER FEDERAL #301H	Oil	Active	B-21-24S-34E	32.20920340	-103.47431920
80563	30-025-08494	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	Plugged (site released)	B-21-24S-34E	32.20850750	-103.47277070
7664	30-025-46428	CENTENNIAL RESOURCE PRODUCTION LLC	RAIDER FEDERAL COM #702H	Oil	New	O-21-24S-34E	32.19661800	-103.47186700
9823	30-025-46427	CENTENNIAL RESOURCE PRODUCTION LLC	RAIDER FEDERAL COM #701H	Oil	New	O-21-24S-34E	32.19661900	-103.47196400
61398	30-025-28641	CIMAREX ENERGY CO. OF COLORADO	VACA RIDGE 21 FEDERAL COM #001	Gas	Plugged (site released)	O-21-24S-34E	32.19761660	-103.47274780
7665	30-025-46429	CENTENNIAL RESOURCE PRODUCTION LLC	RAIDER FEDERAL COM #703H	Oil	New	P-21-24S-34E	32.19661400	-103.46769700
17384	30-025-46301	CENTENNIAL RESOURCE PRODUCTION LLC	RAIDER FEDERAL COM #503H	Oil	New	P-21-24S-34E	32.19661600	-103.46963700
23892	30-025-46299	CENTENNIAL RESOURCE PRODUCTION LLC	RAIDER FEDERAL #501H	Oil	New	P-21-24S-34E	32.19661600	-103.46983100
23893	30-025-46300	CENTENNIAL RESOURCE PRODUCTION LLC	RAIDER FEDERAL COM #502H	Oil	New	P-21-24S-34E	32.19661600	-103.46973400
54010	30-025-46362	CENTENNIAL RESOURCE PRODUCTION LLC	RAIDER FEDERAL COM #704H	Oil	New	P-21-24S-34E	32.19661400	-103.46760000
1595	30-025-43358	CENTENNIAL RESOURCE PRODUCTION LLC	SHEBA FEDERAL COM #001H	Oil	Active	A-22-24S-34E	32.20858750	-103.45101130
1650	30-025-43414	CENTENNIAL RESOURCE PRODUCTION LLC	SOLOMON FEDERAL COM #001H	Oil	New	B-22-24S-34E	32.20918930	-103.45477590
1552	30-025-45577	CENTENNIAL RESOURCE PRODUCTION LLC	SOLOMON FEDERAL COM #505H	Oil	New	C-22-24S-34E	32.20918800	-103.45931000
1556	30-025-45554	CENTENNIAL RESOURCE PRODUCTION LLC	JULIET FEDERAL COM #503H	Oil	New	C-22-24S-34E	32.20919100	-103.46191900
1574	30-025-43385	CENTENNIAL RESOURCE PRODUCTION LLC	JULIET FEDERAL COM #001H	Oil	Active	C-22-24S-34E	32.20919210	-103.45996790
1636	30-025-45576	CENTENNIAL RESOURCE PRODUCTION LLC	JULIET FEDERAL COM #504H	Oil	New	C-22-24S-34E	32.20919000	-103.46182200
1555	30-025-45557	CENTENNIAL RESOURCE PRODUCTION LLC	ROMEO FEDERAL COM #705H	Oil	New	D-22-24S-34E	32.20919200	-103.46374900
1598	30-025-45556	CENTENNIAL RESOURCE PRODUCTION LLC	ROMEO FEDERAL COM #706H	Oil	New	D-22-24S-34E	32.20919200	-103.46365200
1642	30-025-45555	CENTENNIAL RESOURCE PRODUCTION LLC	JULIET FEDERAL COM #707H	Oil	New	D-22-24S-34E	32.20919200	-103.46355400
1651	30-025-42999	CENTENNIAL RESOURCE PRODUCTION LLC	ROMEO FEDERAL COM #001H	Oil	Active	D-22-24S-34E	32.20919210	-103.46423440
82319	30-025-28235	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	Plugged (site released)	K-22-24S-34E	32.20123670	-103.45995330
82643	30-025-30179	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	Plugged (site released)	N-22-24S-34E	32.19760510	-103.46101380
1541	30-025-45404	CENTENNIAL RESOURCE PRODUCTION LLC	SHEBA FEDERAL COM #506H	Oil	New	O-22-24S-34E	32.19660600	-103.45505300
1568	30-025-45374	CENTENNIAL RESOURCE PRODUCTION LLC	SHEBA FEDERAL COM #711H	Oil	Active	O-22-24S-34E	32.19660500	-103.45395400
1575	30-025-45405	CENTENNIAL RESOURCE PRODUCTION LLC	SHEBA FEDERAL COM #507H	Oil	New	O-22-24S-34E	32.19660600	-103.45495500
1604	30-025-45376	CENTENNIAL RESOURCE PRODUCTION LLC	SOLOMON FEDERAL COM #710H	Oil	Active	O-22-24S-34E	32.19660500	-103.45405100
1639	30-025-45375	CENTENNIAL RESOURCE PRODUCTION LLC	SOLOMON FEDERAL COM #709H	Oil	Active	O-22-24S-34E	32.19660500	-103.45414800
36790	30-025-46514	MATADOR PRODUCTION COMPANY	BRAD LUMMIS COM #122H	Oil	New	C-23-24S-34E	32.20946740	-103.44205830
43126	30-025-45441	MATADOR PRODUCTION COMPANY	BRAD LUMMIS COM #212H	Oil	Active	C-23-24S-34E	32.20945160	-103.44219270
43235	30-025-45440	MATADOR PRODUCTION COMPANY	BRAD LUMMIS COM #112H	Oil	New	C-23-24S-34E	32.20940110	-103.44211600
43102	30-025-45709	MATADOR PRODUCTION COMPANY	BRAD LUMMIS FEDERAL COM #221H	Oil	New	D-23-24S-34E	32.20911030	-103.44790930
43144	30-025-45513	MATADOR PRODUCTION COMPANY	BRAD LUMMIS FEDERAL COM #201H	Oil	New	D-23-24S-34E	32.20910250	-103.44781280
43146	30-025-45580	MATADOR PRODUCTION COMPANY	BRAD LUMMIS FEDERAL COM #131H	Oil	New	D-23-24S-34E	32.20909460	-103.44771620
43166	30-025-45581	MATADOR PRODUCTION COMPANY	BRAD LUMMIS FEDERAL COM #211H	Oil	Active	D-23-24S-34E	32.20907900	-103.44752290
43185	30-025-45511	MATADOR PRODUCTION COMPANY	BRAD LUMMIS FEDERAL COM #111H	Oil	Active	D-23-24S-34E	32.20919230	-103.44790010
45482	30-025-45512	MATADOR PRODUCTION COMPANY	BRAD LUMMIS FEDERAL COM #121H	Oil	New	D-23-24S-34E	32.20908680	-103.44761960
74548	30-025-46354	EOG RESOURCES INC	KESTREL 26 FEDERAL #702H	Oil	New	M-26-24S-34E	32.18246200	-103.44609640
85799	30-025-29917	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Gas	Plugged (site released)	E-27-24S-34E	32.19034960	-103.46420290
91224	30-025-28321	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	Plugged (site released)	K-27-24S-34E	32.18671420	-103.45993040
63442	30-025-45939	EOG RESOURCES INC	PEREGRINE 27 FEDERAL COM #311H	Oil	New	M-27-24S-34E	32.18350790	-103.46470040
63361	30-025-46105	EOG RESOURCES INC	PEREGRINE 27 FEDERAL COM #707H	Oil	New	O-27-24S-34E	32.18198700	-103.45526230
63339	30-025-46108	EOG RESOURCES INC	PEREGRINE 27 FEDERAL COM #710H	Oil	New	P-27-24S-34E	32.18181950	-103.45189810
63363	30-025-46107	EOG RESOURCES INC	PEREGRINE 27 FEDERAL COM #709H	Oil	New	P-27-24S-34E	32.18181950	-103.45200470

JULIET FEDERAL COM 503H, 504H & SOLOMON FEDERAL COM 505H ON EXISTING JULIET FEDERAL COM 1H

SUPPLEMENTAL OIL & GAS SPREADSHEET TO TOPO "C"

DATE: 02-13-20 S.T.O.

OBJECTID	API	OPERATOR	WELL NAME	WELL TYPE	WELL STATUS	UNIT LETTER-SECTION-TOWNSHIP-RANGE	NAD 83 LATITUDE	NAD 83 LONGITUDE
63365	30-025-46106	EOG RESOURCES INC	PEREGRINE 27 FEDERAL COM #708H	Oil	New	P-27-24S-34E	32.18181960	-103.45211140
99688	30-025-44875	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #314H	Oil	New	A-28-24S-34E	32.19524100	-103.46850600
99813	30-025-44874	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #313H	Oil	New	A-28-24S-34E	32.19524110	-103.46861270
103309	30-025-44930	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #715H	Oil	New	A-28-24S-34E	32.19524090	-103.46839930
99796	30-025-44929	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #712H	Oil	New	B-28-24S-34E	32.19524390	-103.47159960
99917	30-025-44873	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #308H	Oil	New	B-28-24S-34E	32.19524590	-103.47488510
99919	30-025-44928	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #711H	Oil	New	B-28-24S-34E	32.19524390	-103.47170620
102602	30-025-44926	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #309H	Oil	New	B-28-24S-34E	32.19524670	-103.47477840
103308	30-025-44927	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #710H	Oil	New	B-28-24S-34E	32.19524400	-103.47181290
99687	30-025-44872	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #707H	Oil	New	C-28-24S-34E	32.19524680	-103.47499170
99812	30-025-44871	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #706H	Oil	New	C-28-24S-34E	32.19524900	-103.47749650
99916	30-025-44870	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #705H	Oil	New	C-28-24S-34E	32.19524910	-103.47760310
103305	30-025-44869	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #704H	Oil	New	C-28-24S-34E	32.19524920	-103.47770980
102787	30-025-28488	EOG RESOURCES INC	PITCHFORK RANCH 28 FEDERAL COM #001	Gas	Active	G-28-24S-34E	32.19035720	-103.47274020
102847	30-025-27826	EOG RESOURCES INC	MADERA 28 FEDERAL COM #001	Gas	Active	N-28-24S-34E	32.18309780	-103.47696690
103009	30-025-29862	EOG RESOURCES INC	MADERA 28 FEDERAL COM #002	Gas	Plugged (site released)	N-28-24S-34E	32.18309780	-103.47625730
103281	30-025-29926	EOG RESOURCES INC	MADERA 33 FEDERAL COM #004	Gas	Plugged (site released)	J-33-24S-34E	32.17310330	-103.47270200
112204	30-025-28596	JOHNNY G JONES	MOORE 34 COM #001	Oil	Plugged (site released)	G-34-24S-34E	32.17582320	-103.45564270
99734	30-025-28002	EOG RESOURCES INC	PITCHFORK 34 FEDERAL COM #001	Gas	Active	L-34-24S-34E	32.17219160	-103.46417240


C
X
X
X
X
Water
Water
Water
GB
Oil
Oil
Oil
Water
Water
Water
GB
Oil
Oil
Oil
C
PIPE RACK
Solomon Federal Com 505H
Future Well
Future Well
Future Well
Future Well
Future Well
Future Well
Future Well
PIPE
RACK
Future Well
Future Well
Future Well
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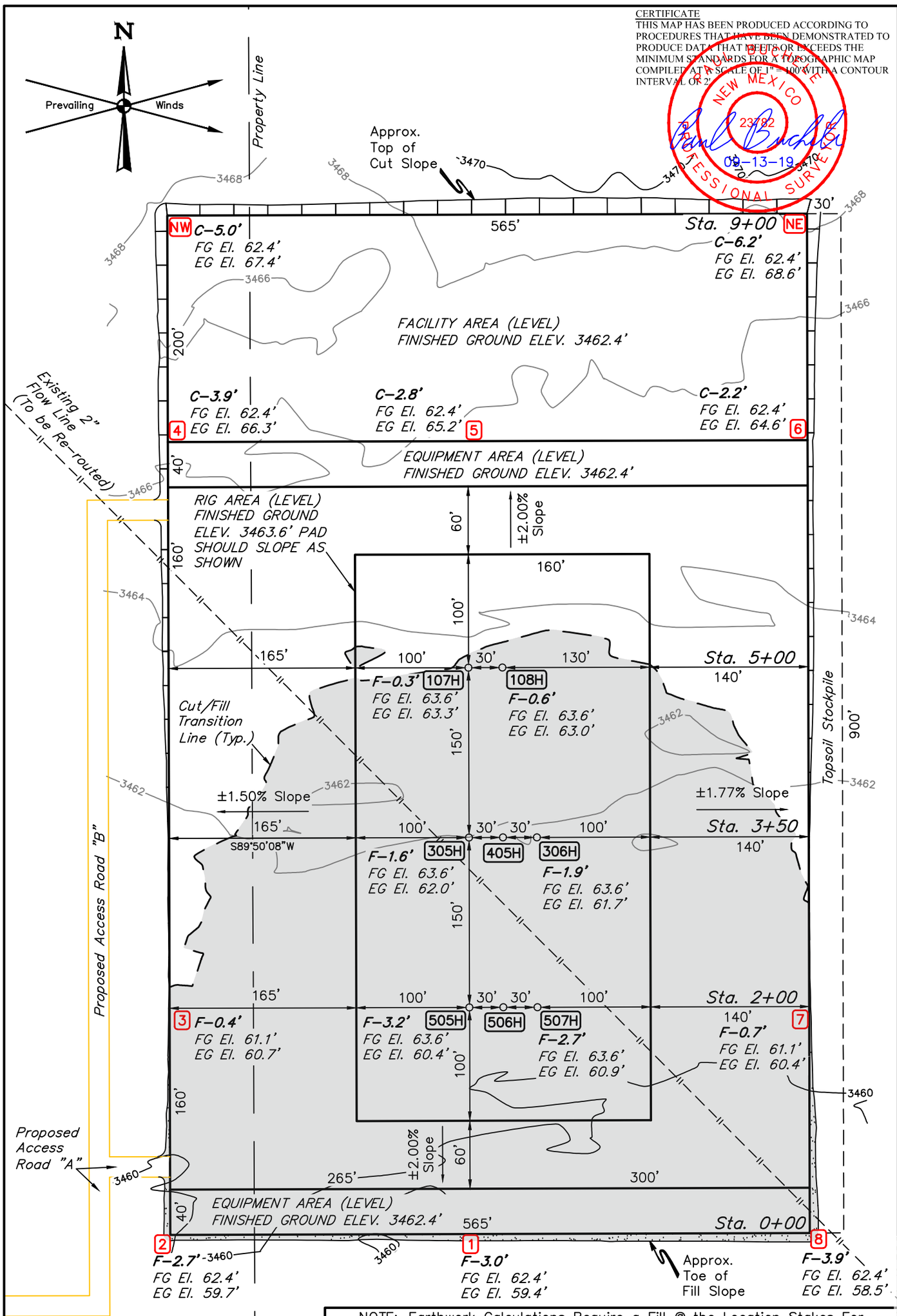
Future Well
Future Well
N
W
E
S
CTB Pad Dimensions: 500' x 300'
Access Road Entrance
Juliet/ Romeo/ Solomon CTB 1 Facilities



NOTE: Earthwork Calculations Require a Fill @ the Location Stakes 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:

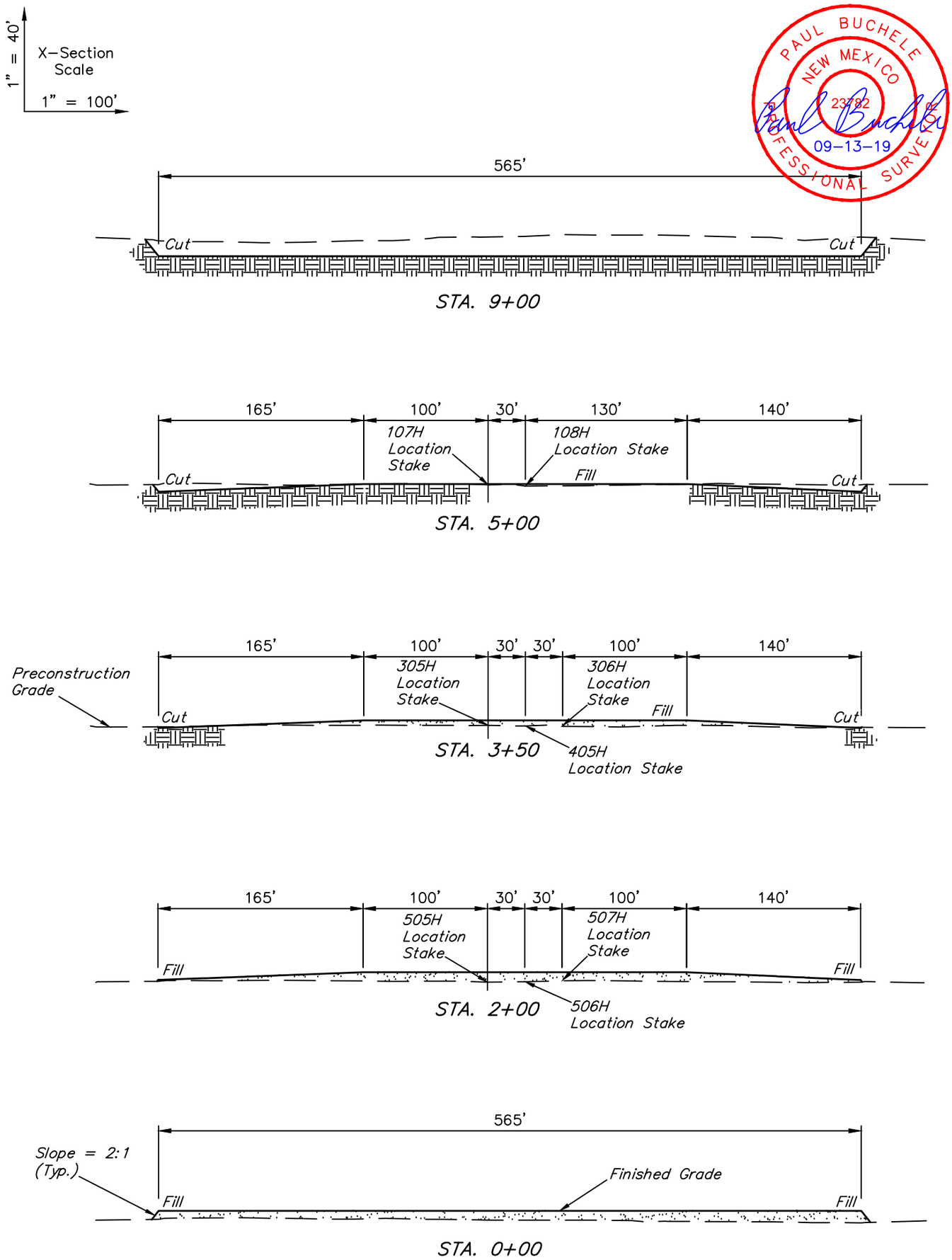
- Contours shown at 2' intervals.
- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00"

CENTENNIAL RESOURCE PRODUCTION, LLC

SOLOMON FEDERAL COM 505H & SHEBA FEDERAL COM 107H, 108H, 305H, 306H, 405H, 506H & 507H
SE 1/4 NE 1/4, SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C.	08-23-19	SCALE
DRAWN BY	D.J.S.	09-12-19	1" = 100'
LOCATION LAYOUT			FIGURE #1

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



APPROXIMATE EARTHWORK QUANTITIES	
(4") TOPSOIL STRIPPING	6,510 Cu. Yds.
REMAINING LOCATION	23,890 Cu. Yds.
TOTAL CUT	**30,400 Cu. Yds.**
FILL	**23,890 Cu. Yds.**
EXCESS MATERIAL	6,510 Cu. Yds.
TOPSOIL	6,510 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	**0 Cu. Yds.**

APPROXIMATE SURFACE DISTURBANCE AREAS		
	DISTANCE	**ACRES**
SURFACE USE AREA (SEE ROMEO-JULIET-SOLOMON-SHEBA PADS "EXHIBIT A")	NA	±12.862
65' WIDE ACCESS ROAD "A" R-O-W DISTURBANCE	±1019.91'	±1.522
65' WIDE ACCESS ROAD "B" R-O-W DISTURBANCE	±642.50'	±0.959
TOTAL SURFACE USE AREA		**±15.343**

NOTES:

- Fill quantity includes 5% for compaction.

CENTENNIAL RESOURCE PRODUCTION, LLC

SOLOMON FEDERAL COM 505H & SHEBA FEDERAL COM 107H, 108H, 305H, 306H, 405H, 506H & 507H
SE 1/4 NE 1/4, SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C.	08-23-19	**SCALE**
DRAWN BY	D.J.S.	09-12-19	AS SHOWN
TYPICAL CROSS SECTIONS			**FIGURE #2**

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

PROCEED IN A WESTERLY, THEN NORTHWESTERLY, THEN WESTERLY DIRECTION FROM JAL, NEW MEXICO ALONG NM-128 APPROXIMATELY 18.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 1.2 MILES TO THE BEGINNING OF THE PROPOSED ROMEO FEDERAL COM 302H & JULIET FEDERAL COM 402H ACCESS ROAD TO THE SOUTH; FOLLOW ROAD FLAGS IN A SOUTHERLY DIRECTION APPROXIMATELY 2,665' TO THE BEGINNING OF THE PROPOSED JULIET FEDERAL COM 103H, 104H, 303H & 403H ACCESS ROAD "A" TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY DIRECTION APPROXIMATELY 354' TO THE BEGINNING OF THE PROPOSED SOLOMON FEDERAL COM 105H, 106H, 304H & 404H ACCESS ROAD "A" TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY DIRECTION APPROXIMATELY 921' TO THE BEGINNING OF THE PROPOSED ACCESS ROAD "A" TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY, THEN NORTHERLY, EASTERLY DIRECTION APPROXIMATELY 1,020' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM JAL, NEW MEXICO TO THE PROPOSED LOCATION IS APPROXIMATELY 20.1 MILES.

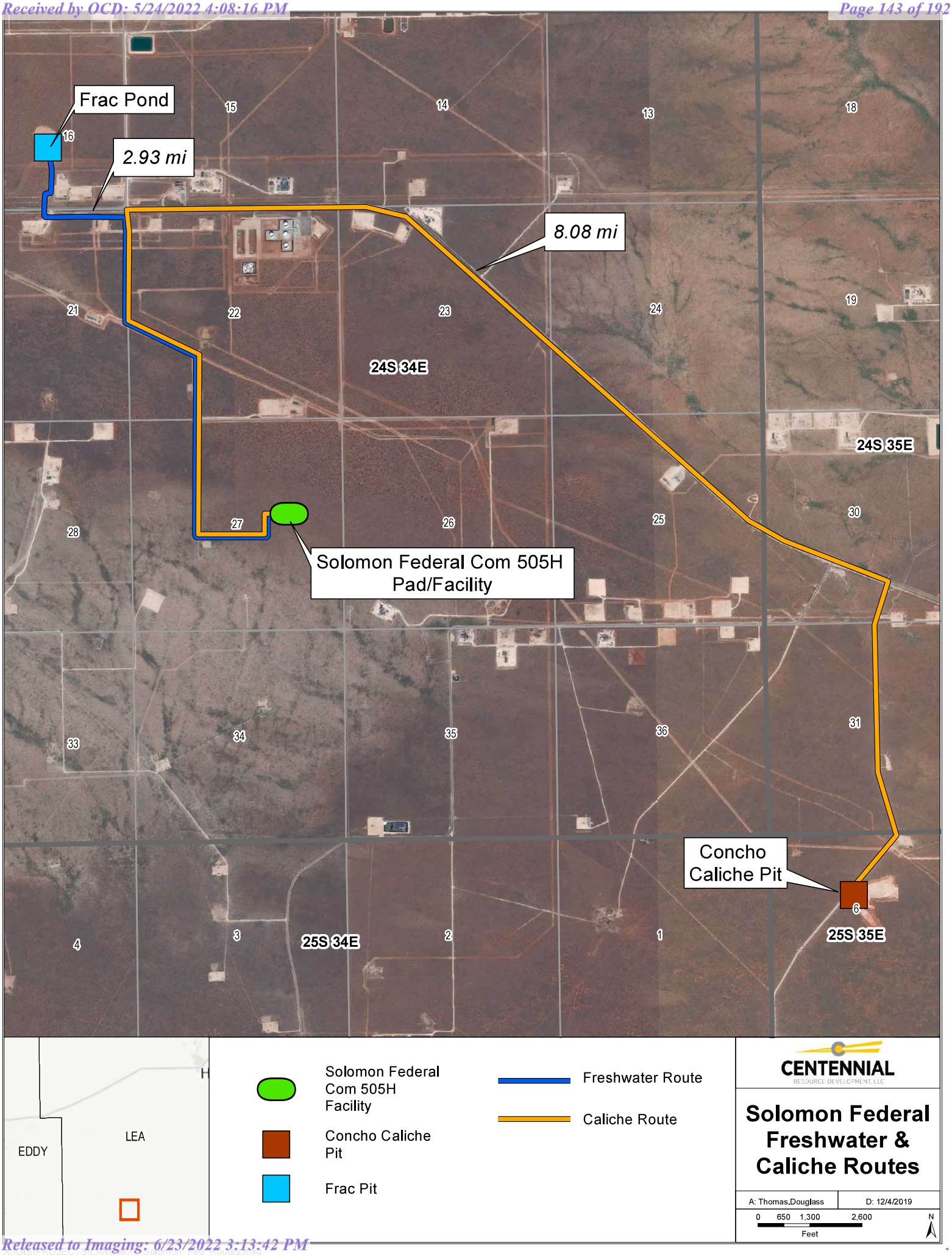
CENTENNIAL RESOURCE PRODUCTION, LLC

SOLOMON FEDERAL COM 505H & SHEBA FEDERAL COM 107H, 108H, 305H, 306H, 405H, 506H & 507H
SE 1/4 NE 1/4, SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

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

SURVEYED BY	B.B., R.C.	08-23-19	
DRAWN BY	S.T.O.	09-12-19	

ROAD DESCRIPTION


Frac Pond
2.93 mi
8.08 mi
Solomon Federal Com 505H
Pad/Facility
Concho
Caliche Pit
24S 34E
24S 35E
25S 34E
25S 35E
15
14
13
18
16
21
22
23
24
19
27
26
25
30
28
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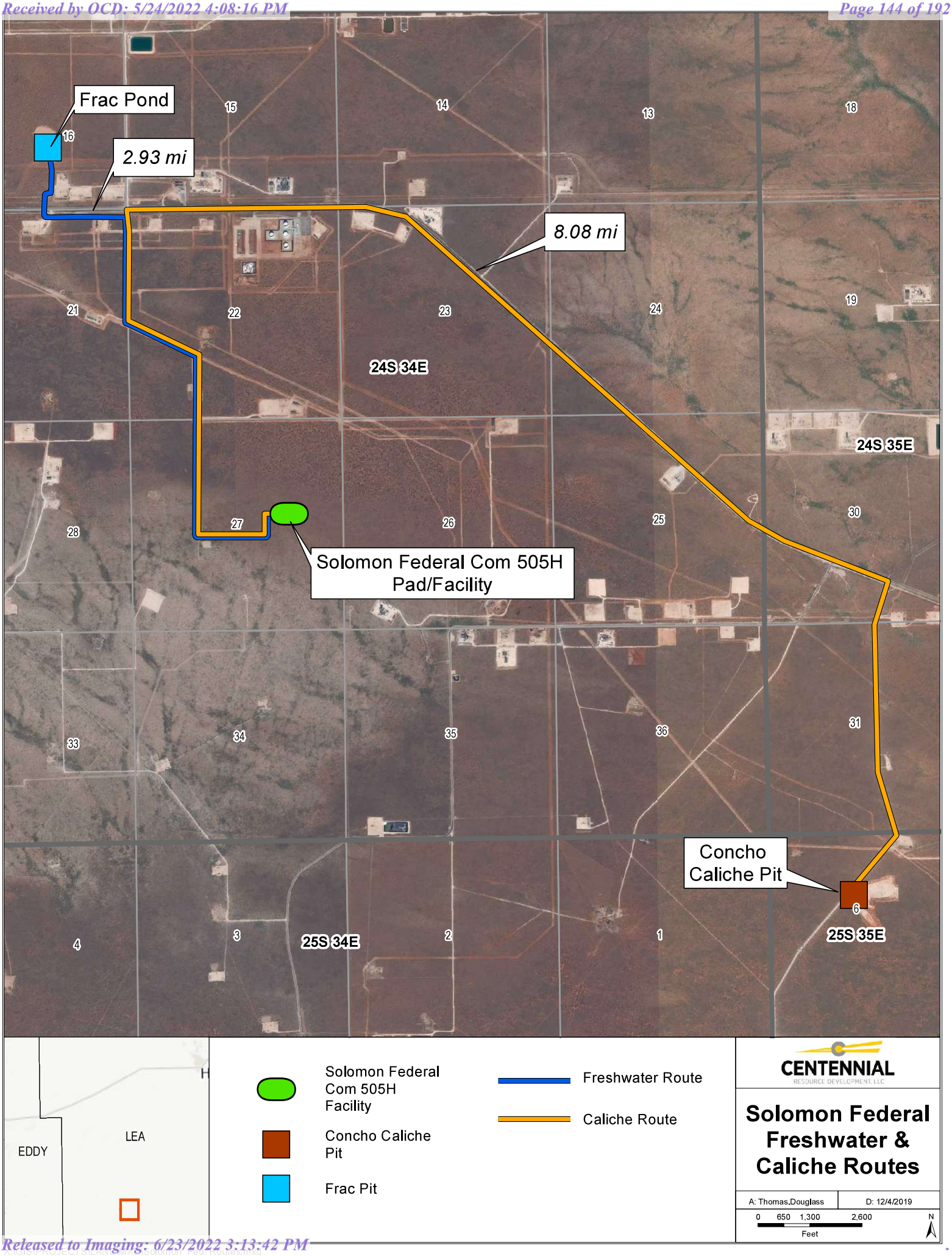
35
36
31
4
3
2
1
6
EDDY
LEA
Solomon Federal
Com 505H
Facility
Concho Caliche
Pit
Frac Pit
Freshwater Route
Caliche Route
CENTENNIAL
RESOURCE DEVELOPMENT, LLC
Solomon Federal
Freshwater &
Caliche Routes
A: Thomas.Douglass
D: 12/4/2019
0 650 1,300 2,600
Feet
N


Frac Pond
2.93 mi
8.08 mi
Solomon Federal Com 505H
Pad/Facility
Concho
Caliche Pit
24S 34E
24S 35E
25S 34E
25S 35E
15
14
13
18
16
21
22
23
24
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33
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3
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6
EDDY
LEA
Solomon Federal
Com 505H
Facility
Concho Caliche
Pit
Frac Pit
Freshwater Route
Caliche Route
CENTENNIAL
RESOURCE DEVELOPMENT, LLC
Solomon Federal
Freshwater &
Caliche Routes
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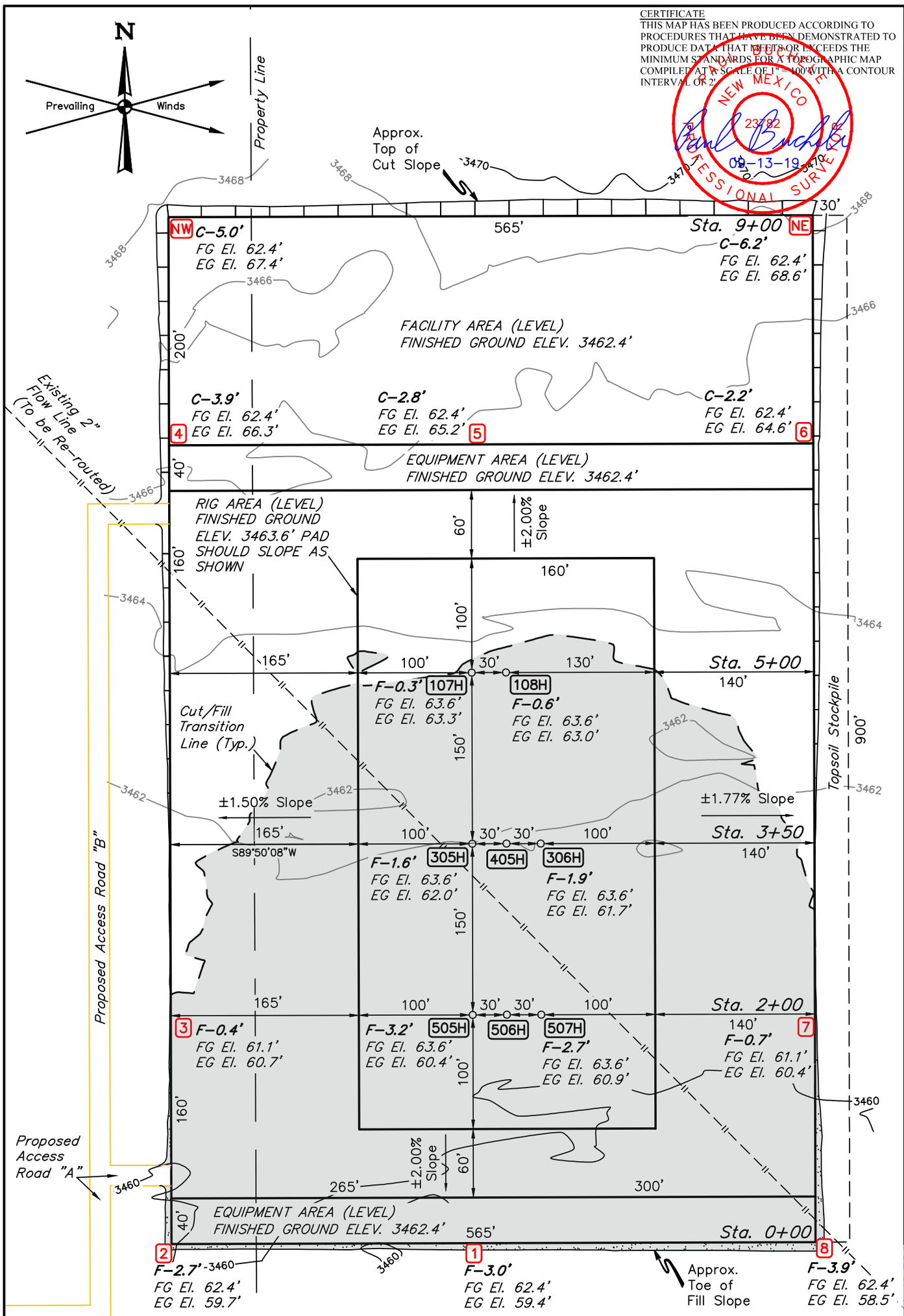
Feet
N



NOTE: Earthwork Calculations Require a Fill @ the Location Stakes 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:

- Contours shown at 2' intervals.
- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00"

CENTENNIAL RESOURCE PRODUCTION, LLC

SOLOMON FEDERAL COM 505H & SHEBA FEDERAL COM 107H, 108H, 305H, 306H, 405H, 506H & 507H
SE 1/4 NE 1/4, SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C.	08-23-19	SCALE
DRAWN BY	D.J.S.	09-12-19	1" = 100'
LOCATION LAYOUT			FIGURE #1

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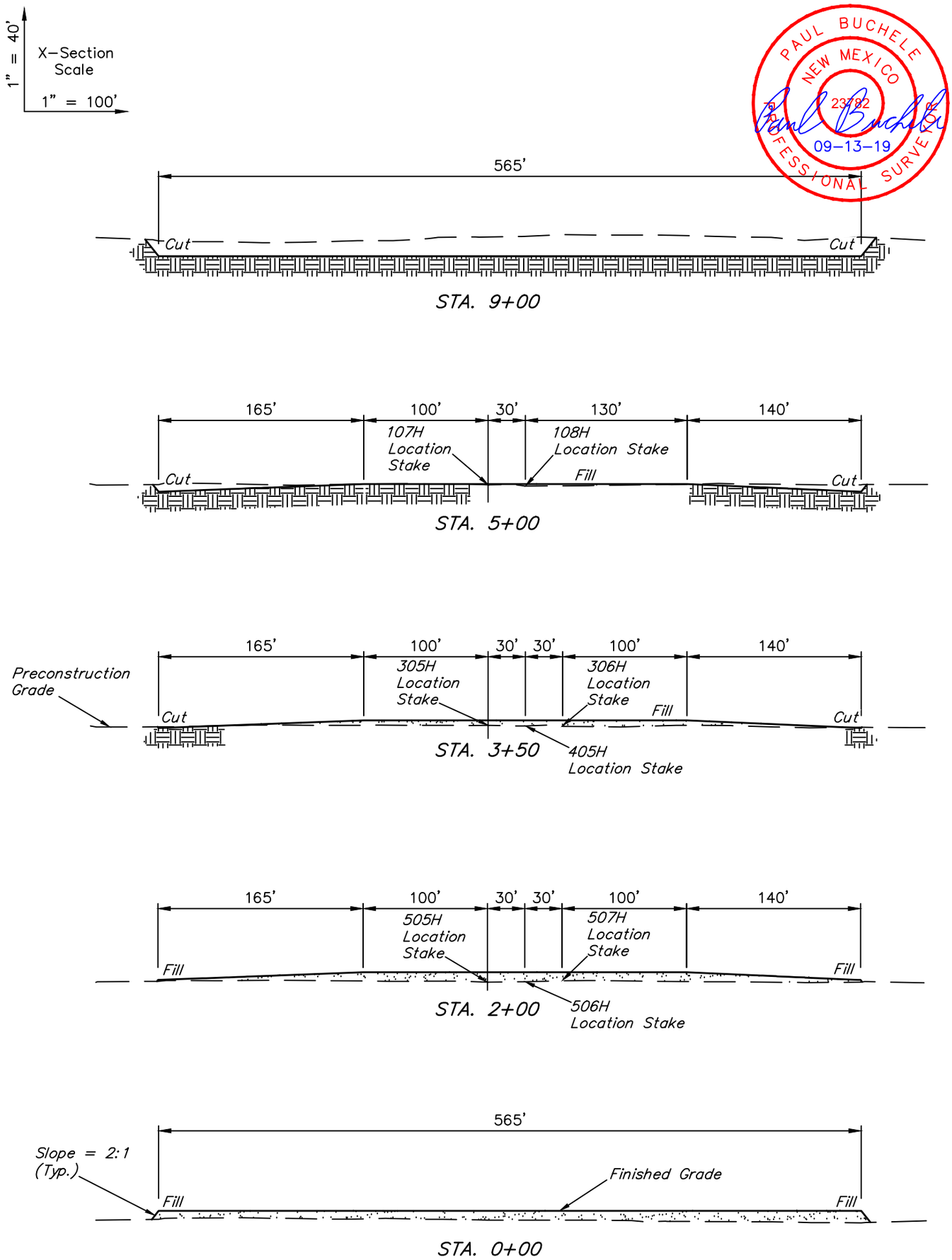
Vernal, UT 84078 * (435) 789-1017



PAUL BUCHELE
NEW MEXICO
23782
PROFESSIONAL SURVEYOR
09-13-19

APPROXIMATE EARTHWORK QUANTITIES	
(4") TOPSOIL STRIPPING	6,510 Cu. Yds.
REMAINING LOCATION	23,890 Cu. Yds.
TOTAL CUT	**30,400 Cu. Yds.**
FILL	**23,890 Cu. Yds.**
EXCESS MATERIAL	6,510 Cu. Yds.
TOPSOIL	6,510 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	**0 Cu. Yds.**

APPROXIMATE SURFACE DISTURBANCE AREAS		
	DISTANCE	**ACRES**
SURFACE USE AREA (SEE ROMEO-JULIET-SOLOMON-SHEBA PADS "EXHIBIT A")	NA	±12.862
65' WIDE ACCESS ROAD "A" R-O-W DISTURBANCE	±1019.91'	±1.522
65' WIDE ACCESS ROAD "B" R-O-W DISTURBANCE	±642.50'	±0.959
TOTAL SURFACE USE AREA		**±15.343**

NOTES:

- Fill quantity includes 5% for compaction.

CENTENNIAL RESOURCE PRODUCTION, LLC

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LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C.	08-23-19	**SCALE**
DRAWN BY	D.J.S.	09-12-19	AS SHOWN

TYPICAL CROSS SECTIONS **FIGURE #2**

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PROCEED IN A WESTERLY, THEN NORTHWESTERLY, THEN WESTERLY DIRECTION FROM JAL, NEW MEXICO ALONG NM-128 APPROXIMATELY 18.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 1.2 MILES TO THE BEGINNING OF THE PROPOSED ROMEO FEDERAL COM 302H & JULIET FEDERAL COM 402H ACCESS ROAD TO THE SOUTH; FOLLOW ROAD FLAGS IN A SOUTHERLY DIRECTION APPROXIMATELY 2,665' TO THE BEGINNING OF THE PROPOSED JULIET FEDERAL COM 103H, 104H, 303H & 403H ACCESS ROAD "A" TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY DIRECTION APPROXIMATELY 354' TO THE BEGINNING OF THE PROPOSED SOLOMON FEDERAL COM 105H, 106H, 304H & 404H ACCESS ROAD "A" TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY DIRECTION APPROXIMATELY 921' TO THE BEGINNING OF THE PROPOSED ACCESS ROAD "A" TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY, THEN NORTHERLY, EASTERLY DIRECTION APPROXIMATELY 1,020' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM JAL, NEW MEXICO TO THE PROPOSED LOCATION IS APPROXIMATELY 20.1 MILES.

CENTENNIAL RESOURCE PRODUCTION, LLC

SOLOMON FEDERAL COM 505H & SHEBA FEDERAL COM 107H, 108H, 305H, 306H, 405H, 506H & 507H
SE 1/4 NE 1/4, SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C.	08-23-19	
DRAWN BY	S.T.O.	09-12-19	

ROAD DESCRIPTION

UINTAH ENGINEERING & LAND SURVEYING
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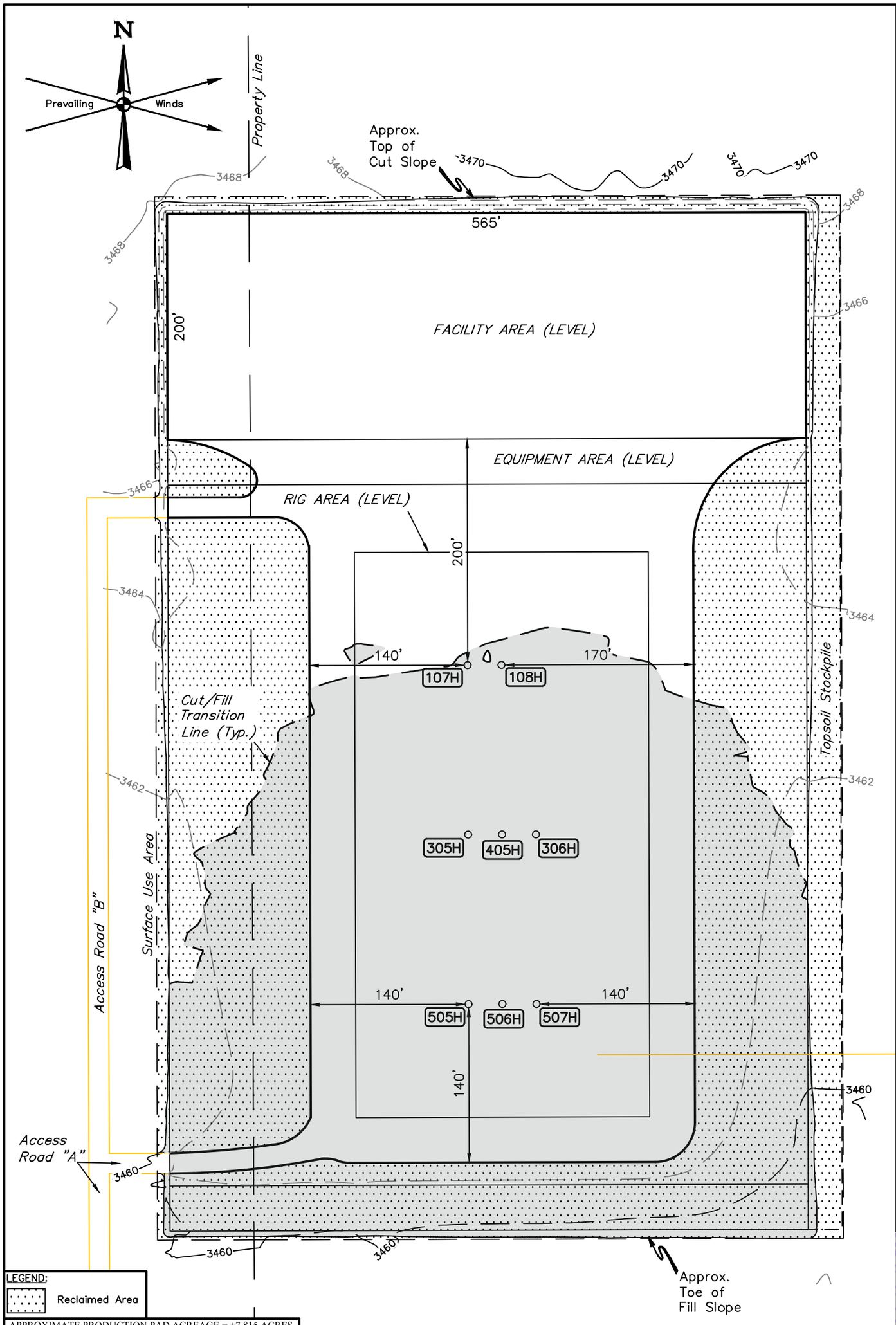

LEGEND:

Reclaimed Area

APPROXIMATE PRODUCTION PAD ACREAGE = ±7.815 ACRES
APPROXIMATE RECLAIMED AREA ACREAGE = ±5.047 ACRES
TOTAL ACREAGE = ±12.862 ACRES

NOTES:

- Contours shown at 2' intervals.

CENTENNIAL RESOURCE PRODUCTION, LLC

SOLOMON FEDERAL COM 505H & SHEBA FEDERAL COM 107H, 108H, 305H, 306H, 405H, 506H & 507H
SE 1/4 NE 1/4, SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C.	08-23-19	SCALE
DRAWN BY	D.J.S.	09-12-19	1" = 100'

RECLAMATION DIAGRAM | **FIGURE #4**

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

UINTAH ENGINEERING & LAND SURVEYING

SOLOMON FEDERAL COM 505H & SHEBA FED COM 506H, 507H, 306H & 405H

SURFACE USE PLAN

EXISTING ROADS (ROAD PLATS ATTACHED AS PLAT #1)

- The operator will improve or maintain existing road in a condition the same as or better than before operations begin. The operator will repair pot holes, clear ditches, repair the crown, etc. All existing structures o the entire access route such as cattle guards, other range improvement projects, culverts, etc. will be properly repaired or replaced if they are damaged or have deteriorated beyond practical use. We will prevent and abate fugitive dust as needed, whether created by vehicular traffic, equipment operations, or wind events. BLM written approval will be acquired before application of surfactants, binding agents, or the dust suppression chemicals on roadways.

DIRECTIONS (PLAT ATTACHED AS PLAT #2)

- BEGINNING AT THE JUNCTION OF MAIN ST. & NM-176 IN EUNICE, NEW MEXICO PROCEED IN A WESTERLY, THEN NORTHWESTERLY, THEN WESTERLY DIRECTION ALONG NM-176 APPROXIMATELY 20.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN LEFT AND PROCEED IN A SOUTHWESTERLY, THEN SOUTHERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 3.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN LEFT AND PROCEED IN A SOUTHWESTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 4.0 MILES TO THE JUNCTION OF THIS ROAD AND WILSON CAMP LANE TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY

DIRECTION APPROXIMATELY 0.9 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE SOUTH; FOLLOW ROAD FLAGS IN A SOUTHERLY DIRECTION APPROXIMATELY 350' TO THE PROPOSED LOCATION.
TOTAL DISTANCE FROM EUNICE, NEW MEXICO TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 29.0 MILES.

NEW OR RECONSTRUCTED ACCESS ROADS (WELL PLAT ATTACHED AS PLAT #3)

- There will be approximately 1,662.41’ of new road construction for the well pad and facilities.
- Road Width: The access roads shall have a driving surface that creates the smallest possible surface disturbance and does not exceed 65’. (see “Access Road ROW” plat attached)
- Maximum Grade: 8%
- Crown Design: Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2%. The road shall conform to cross section and plans for typical road construction found in the BLM Gold Book.
- Ditch Design: Ditching will be constructed on both sides of road.
- Cattle guards: None suggested.
- Major Cuts and Fills: 2:1 during drilling and completions. Cuts and fills taken back to 3:1 at interim.
- Type of surfacing Material: Caliche.

LOCATION OF EXISTING WELLS (DIAGRAM & SPREADSHEET ATTACHED AS PLAT #4)

- 1-mile radius map and well details attached.

LOCATION OF EXISTING AND/OR PROPOSED PRODUCTION FACILITIES (WORK AREA DETAIL MAP ATTACHED AS PLAT #5)

- Facilities:

- Production facility will be located on the of Sec. 27, T24S-R34E, offsite CTB, where oil and gas sales will take place. The facility is approximately 500' x 300'.
- We will tie into the existing pipeline, north of the pad.
- Open vent exhaust stacks will be modified to prevent birds or bats from entering, discourage perching, roosting and nesting.
- Facility will have a secondary containment 1.5 times the holding capacity of largest storage tank.
- All above ground structures will be painted non-reflective shale green for blending with the environment.
- The tank battery will be connected to the existing water gathering system in the field for permanent water disposal.

LOCATION OF PROPOSED ROW (WELL PLAT ATTACHED AS PLAT #6)

- Pipelines: [FEE SURFACE] 1 – buried SWD pipeline <12 ¾" OD, approximately 4,254' +/-, will be laid from the CTB in Section 27, going west to an existing SWD line that runs along the south line of section 27-T24S-R34E
  - A ROW will not be required for these pipelines.
  - All construction activity will be confined to the approved ROW.
  - Pipeline will run parallel to the road and will stay within approved ROW.
- Powerlines: [FEE SURFACE] A powerline, will be installed from the well location to an Xcel take point TBD within section 27-T24S-R34E. When Xcel approves the take point on lease, plats will be submitted in order to file a sundry for the OHE line.
  - A ROW will not be required for this OHE line.
  - All construction activity will be confined to the approved ROW.
  - Powerline will run parallel to the road and will stay within approved ROW.

LOCATION AND TYPES OF WATER (WORK AREA DETAILED MAP ATTACHED AS PLAT #7)

- Existing frac ponds in Sec 16, T24S-R34E will be utilized for fresh water and the source for recycled water is TBD.
- Fresh water will be obtained from a private water source.
- Temporary expanding water surface line will be used to transport water for drilling and completion operations from the pipeline to the Solomon location along existing lease road a total of approx. 15,470' from the well location to the existing frac pond in Sec 16.
    - Fresh water line will run parallel to the existing lease road, then north within an existing pipeline right of way.
    - A BLM ROW will not be required for the water transfer line.

CONSTRUCTION MATERIAL

- Caliche will be hauled from the existing Concho pit located in {SE4 NW4, Sec 6, T24S, R35E}. Pit has been identified for use in the attached exhibit.
- Any native caliche on the proposed site can be used by "flipping" the location and using all native soils.
    - Notification shall be given to the BLM two working days prior to commencing construction of access road and /or well pad.

METHODS FOR HANDLING WASTE

- Drilling fluids and produced oil and water from the well during drilling and completion operations will be stored safely and disposed of properly in an NMOCD approved disposal facility.
- Garbage and trash produced during drilling and completion operations will be collected in a trash container and disposed of properly at a state approved disposal facility. All trash on and around the well site will be collected for disposal.
- Human waste and grey water will be properly contained and disposed of properly at a state approve disposal facility.
- After drilling and completion operations, trash, chemicals, salts frac sand and other waste material will be removed and disposed of properly at a state approved disposal facility.

- The well will be drilled utilizing a closed loop system. Drill cuttings will be properly disposed of into steel tank and taken to an NMOCD approved disposal facility.

ANCILLARY FACILITIES

- None

WELL SITE LAYOUT (WELL SITE PLAT ATTACHED AS PLAT #8)

- Well Site Plat
  - Exterior well pad dimensions are 565' x 900'.
  - Interior well pad dimensions from point of entry (well head) of the westernmost well are N-800', S-175', W-265', E-300'. The length to the east includes 30' spacing for next well on multi-well pad (three wells). Total disturbance area needed for construction of well pad will be 12.5 acres.
  - Top soil placement is on the south side of pad. Interim reclamation is planned to be completed upon completion of well and evaluation of best management practices. (Reclamation plat attached.

PROPOSED PAD CUT & FILL (PLAT ATTACHED AS PLAT #9)

- Cut and fill: will be minimal.

RIG LAYOUT (ATTACHED AS PLAT #10)

PLANS FOR SURFACE RECLAMATION (RECLAMATION PLAT ATTACHED AS PLAT #11)

Reclamation Objectives

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

hydrologic systems, visual resources, and wildlife habitats. To ensure that the long-term objective will be reached through human and natural processes, actions will be taken to ensure standards are met for site stability, visual quality, hydrological functioning, and vegetative productivity.

- The BLM will be notified at least 3 days prior to commencement of any reclamation procedures.
- If circumstances allow, interim reclamation and/or final reclamation actions will be completed. We will gain written permission from the BLM if more time is needed.

Reclamation will be performed by using the following procedures:

Interim Reclamation Procedures

- Within 6 months, Centennial will contact BLM Surface Management Specialists to devise the best strategies to reduce the size of the location. Current plans for interim reclamation include reducing the pad size to approximately 3.989 acres from the proposed size of 4.870 acres. the well location and surrounding areas will be cleared of, and maintained free of, all materials, trash, and equipment not require for production. A plan will be submitted showing where interim reclamation will be completed to allow for safe operations, protection of the environment outside of drilled well, and following best Management practices found in the BLM “Gold Book”.
- In areas planned for interim reclamation, all the surfacing material will be removed and returned to the original mineral pit or recycled to repair or build roads and well pads.
- The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to res-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Notice: Constructed

slopes may be much steeper during drilling but will be recontoured to the above ratios during interim reclamation.
- Topsoil will be evenly re-spread and aggressively revegetated over the entire disturbed area not needed for all-weather operations including cuts & fills. To seed the area, the proper BLM seed mixture (BLM#2), free of noxious weeds, will be used.
- Proper erosion control methods will be used on the area to control erosion, runoff and siltation of the surrounding area.
- The interim reclamation will be monitored periodically to ensure that vegetation has reestablished.

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

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

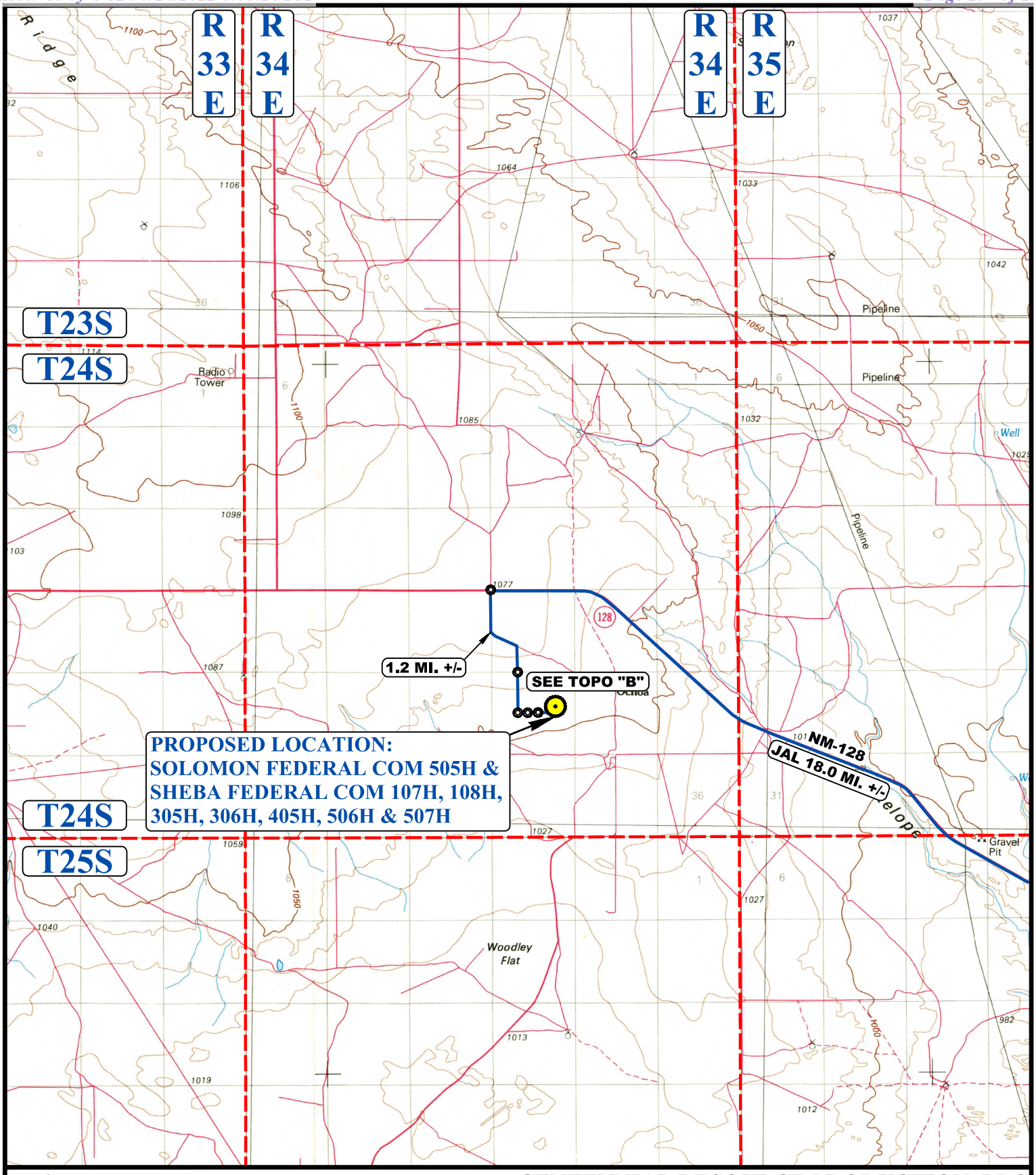
SURFACE OWNERSHIP

- Well pad and all other infrastructure is on Quail Ranch surface.

OTHER INFORMATION

- On-site performed by BLM NRS Paul Murphy 4/25/19

- Erosion / Drainage: Drainage control system shall be constructed on the entire length of road using any of the following: ditches, side hill out-sloping and in-sloping, lead-off ditched, culvert installation, or low water crossings.
- Enclosure fencing will be installed around open cellar to prevent livestock or large wildlife from being trapped after installation, or low water crossings.
- Enclosure fencing will be installed around open cellar to prevent livestock or large wildlife from being trapped after installation. Fencing will remain in place while no activity is present and until backfilling takes place.
- Terrain: Landscape is flat
- Soil: Sandy loam
- Vegetation: Vegetation present in surrounding area includes mesquite, shrubs, and grass (needle-grass, burro grass, dropseed).
- Wildlife: No wildlife observed, but it is likely that deer, rabbits, coyotes and rodents pass through the area.
- Surface Water: No surface water concerns.
- Cave Karst: Low Karst area with no cave or visual signs of caves found.
- Watershed Protection: The entire perimeter of the well pad will be bermed to prevent oil, salt and other chemical contaminates from leaving the well pad.



LEGEND:

PROPOSED LOCATION

N

CENTENNIAL RESOURCE PRODUCTION, LLC

SOLOMON FEDERAL COM 505H & SHEBA FEDERAL
COM 107H, 108H, 305H, 306H, 405H, 506H & 507H
SE 1/4 NE 1/4, SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C.	08-23-19	SCALE
DRAWN BY	S.T.O.	09-12-19	1 : 100,000
ACCESS ROAD MAP			TOPO A

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Vernal, UT 84078 * (435) 789-1017

PROCEED IN A WESTERLY, THEN NORTHWESTERLY, THEN WESTERLY DIRECTION FROM JAL, NEW MEXICO ALONG NM-128 APPROXIMATELY 18.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 1.2 MILES TO THE BEGINNING OF THE PROPOSED ROMEO FEDERAL COM 302H & JULIET FEDERAL COM 402H ACCESS ROAD TO THE SOUTH; FOLLOW ROAD FLAGS IN A SOUTHERLY DIRECTION APPROXIMATELY 2,665' TO THE BEGINNING OF THE PROPOSED JULIET FEDERAL COM 103H, 104H, 303H & 403H ACCESS ROAD "A" TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY DIRECTION APPROXIMATELY 354' TO THE BEGINNING OF THE PROPOSED SOLOMON FEDERAL COM 105H, 106H, 304H & 404H ACCESS ROAD "A" TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY DIRECTION APPROXIMATELY 921' TO THE BEGINNING OF THE PROPOSED ACCESS ROAD "A" TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY, THEN NORTHERLY, EASTERLY DIRECTION APPROXIMATELY 1,020' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM JAL, NEW MEXICO TO THE PROPOSED LOCATION IS APPROXIMATELY 20.1 MILES.

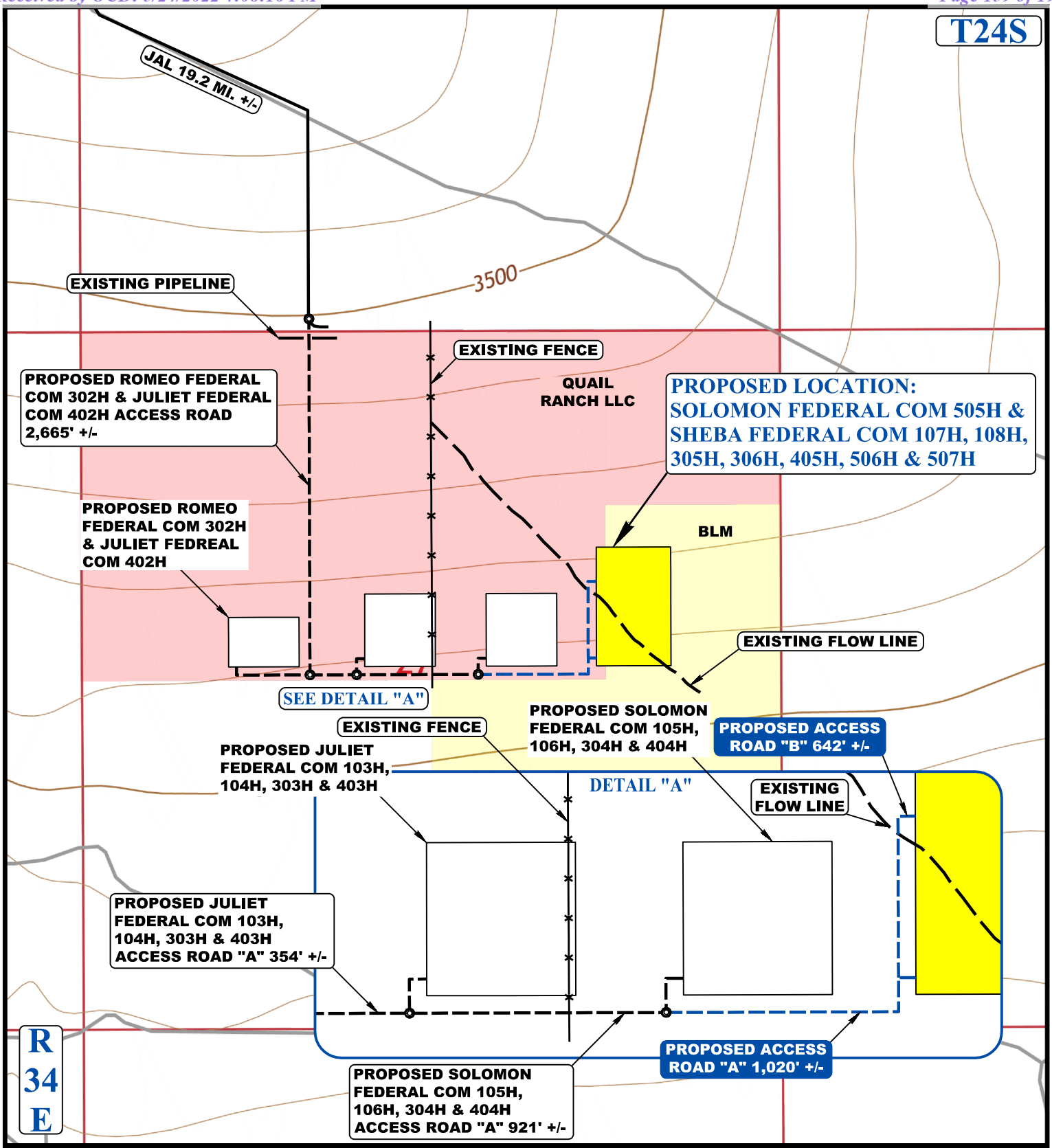
CENTENNIAL RESOURCE PRODUCTION, LLC

SOLOMON FEDERAL COM 505H & SHEBA FEDERAL COM 107H, 108H, 305H, 306H, 405H, 506H & 507H
SE 1/4 NE 1/4, SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

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

SURVEYED BY	B.B., R.C.	08-23-19	
DRAWN BY	S.T.O.	09-12-19	

ROAD DESCRIPTION



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
- PROPOSED ROAD (SERVICING OTHER WELLS)
- EXISTING PIPELINE
- EXISTING FLOW LINE
- EXISTING FENCE

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N

CENTENNIAL RESOURCE PRODUCTION, LLC

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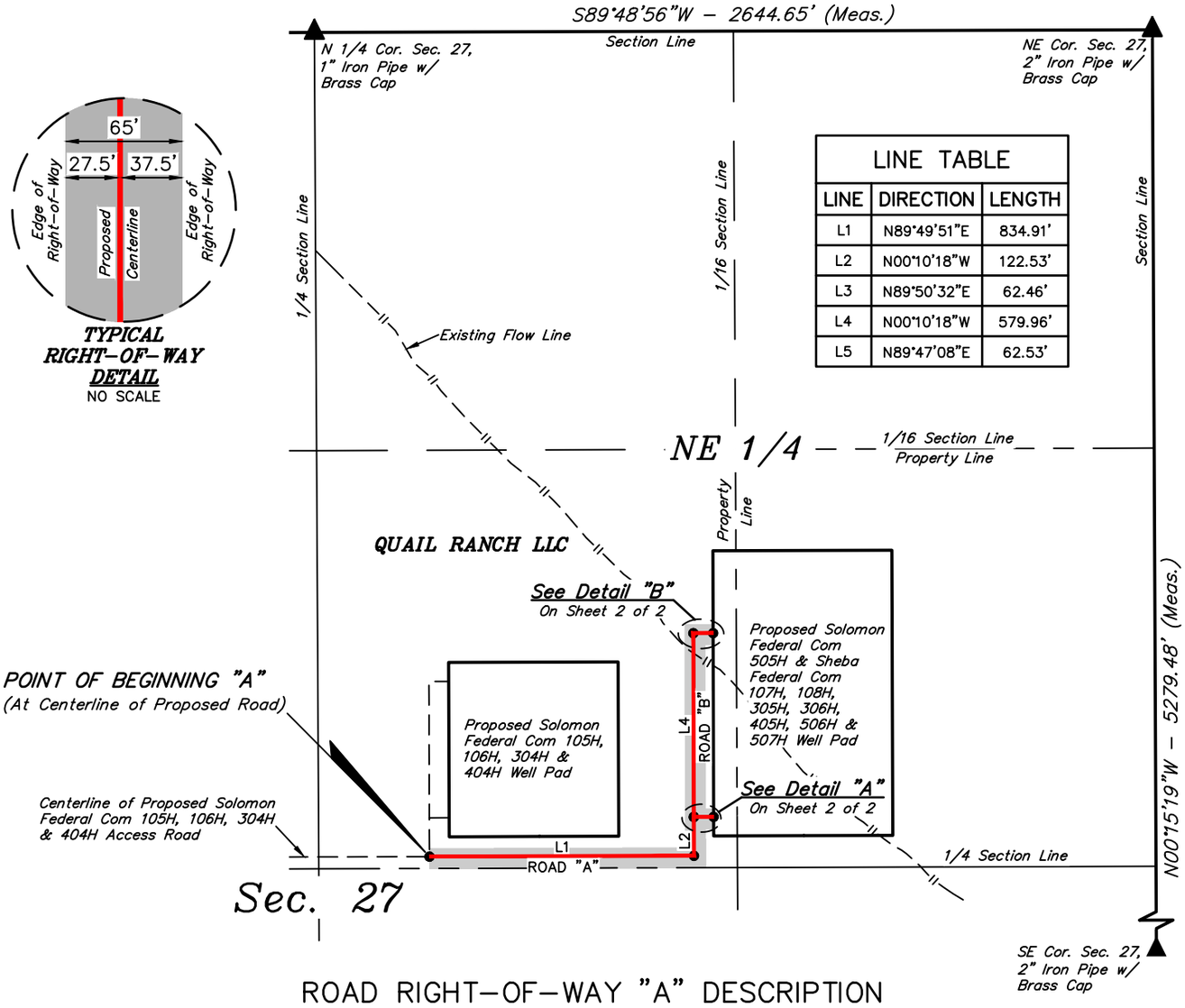
SE 1/4 NE 1/4, SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C.	08-23-19	SCALE
DRAWN BY	S.T.O.	09-12-19	1 : 12,000
ACCESS ROAD MAP			TOPO B



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N89°49'51"E	834.91'
L2	N00°10'18"W	122.53'
L3	N89°50'32"E	62.46'
L4	N00°10'18"W	579.96'
L5	N89°47'08"E	62.53'

ROAD RIGHT-OF-WAY "A" DESCRIPTION

A 65' WIDE RIGHT-OF-WAY 37.5' ON THE RIGHT SIDE AND 27.5' ON THE LEFT SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE SW 1/4 NE 1/4 OF SECTION 27, T24S, R34E, N.M.P.M., WHICH BEARS S07°56'50"E 2625.69' FROM THE NORTH 1/4 CORNER OF SAID SECTION 27, THENCE N89°49'51"E 834.91'; THENCE N00°10'18"W 122.53'; THENCE N89°50'32"E 62.46' TO A POINT IN THE SW 1/4 NE 1/4 OF SAID SECTION 27 AND THE POINT OF TERMINATION, WHICH BEARS S26°58'41"E 2777.56' FROM THE NORTH 1/4 CORNER OF SAID SECTION 27. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A TRANSVERSE MERCATOR PROJECTION WITH A CENTRAL MERIDIAN OF W103°53'00". CONTAINS 1.522 ACRES MORE OR LESS.

ROAD RIGHT-OF-WAY "B" DESCRIPTION

A 65' WIDE RIGHT-OF-WAY 37.5' ON THE RIGHT SIDE AND 27.5' ON THE LEFT SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE SW 1/4 NE 1/4 OF SECTION 27, T24S, R34E, N.M.P.M., WHICH BEARS S25°49'00"E 2749.94' FROM THE NORTH 1/4 CORNER OF SAID SECTION 27, THENCE N00°10'18"W 579.96'; THENCE N89°47'08"E 62.53' TO A POINT IN THE SW 1/4 NE 1/4 OF SAID SECTION 27 AND THE POINT OF TERMINATION, WHICH BEARS S33°34'56"E 2274.99' FROM THE NORTH 1/4 CORNER OF SAID SECTION 27. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A TRANSVERSE MERCATOR PROJECTION WITH A CENTRAL MERIDIAN OF W103°53'00". CONTAINS 0.959 ACRES MORE OR LESS.

500' 250' 0' 500'

ACREAGE / LENGTH TABLE "A"		
FEET	RODS	ACRES
1019.91	61.81	1.522

ACREAGE / LENGTH TABLE "B"		
FEET	RODS	ACRES
642.50	38.94	0.959

▲ = 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.

NEW MEXICO 23782 PROFESSIONAL SURVEYOR 09-12-19

FILE: C-7112-A1

Sheet 1 of 2

NOTES:
- The maximum grade of existing ground for the proposed access road "A" is ±0.67%.
- The maximum grade of existing ground for the proposed access road "B" is ±1.48%.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00"

CENTENNIAL RESOURCE PRODUCTION, LLC

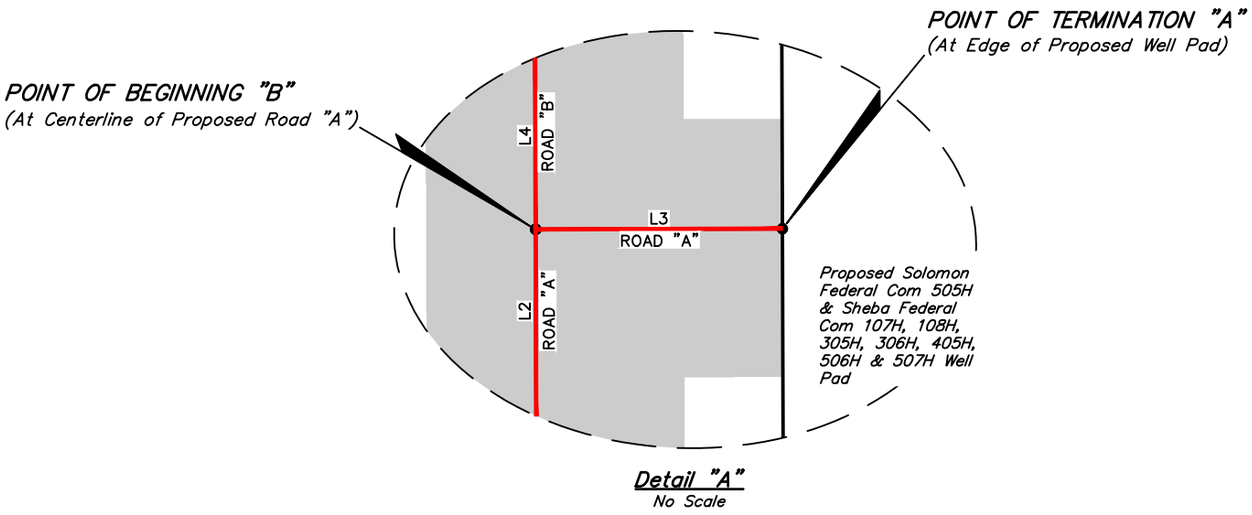
SOLOMON FEDERAL COM 505H & SHEBA FEDERAL COM 107H, 108H, 305H, 306H, 405H, 506H & 507H ON QUAIL RANCH LLC LANDS IN SECTION 27, T24S, R34E, N.M.P.M. LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., M.D.	08-09-19	SCALE
DRAWN BY	S.M.R.	09-12-19	1" = 500'

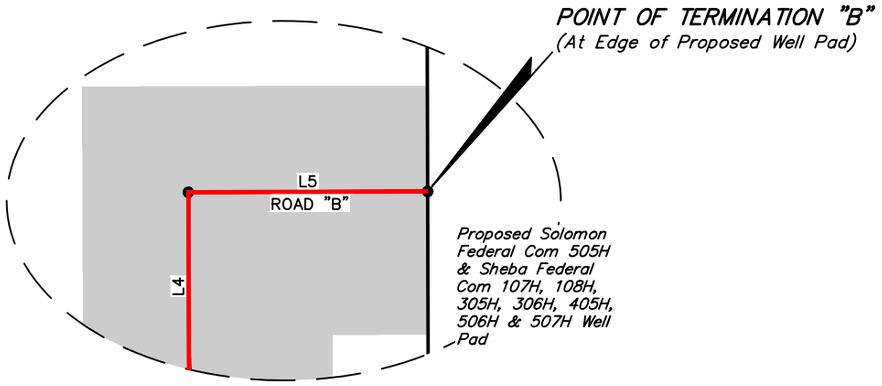
ACCESS ROAD R-O-W

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

N



Detail "A"
No Scale



Detail "B"
No Scale

POINT OF BEGINNING "A" BEARS S07°56'50"E 2625.69' FROM THE NORTH 1/4 CORNER OF SECTION 27, T24S, R34E, N.M.P.M.

POINT OF TERMINATION "A" BEARS S26°58'41"E 2777.56' FROM THE NORTH 1/4 CORNER OF SECTION 27, T24S, R34E, N.M.P.M.

POINT OF BEGINNING "B" BEARS S25°49'00"E 2749.94' FROM THE NORTH 1/4 CORNER OF SECTION 27, T24S, R34E, N.M.P.M.

POINT OF TERMINATION "B" BEARS S33°34'56"E 2274.99' FROM THE NORTH 1/4 CORNER OF SECTION 27, T24S, R34E, 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.

STATE OF NEW MEXICO
23782
PROFESSIONAL SURVEYOR
09-12-19

FILE: C-7112-A2

Sheet 2 of 2

NOTES:

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

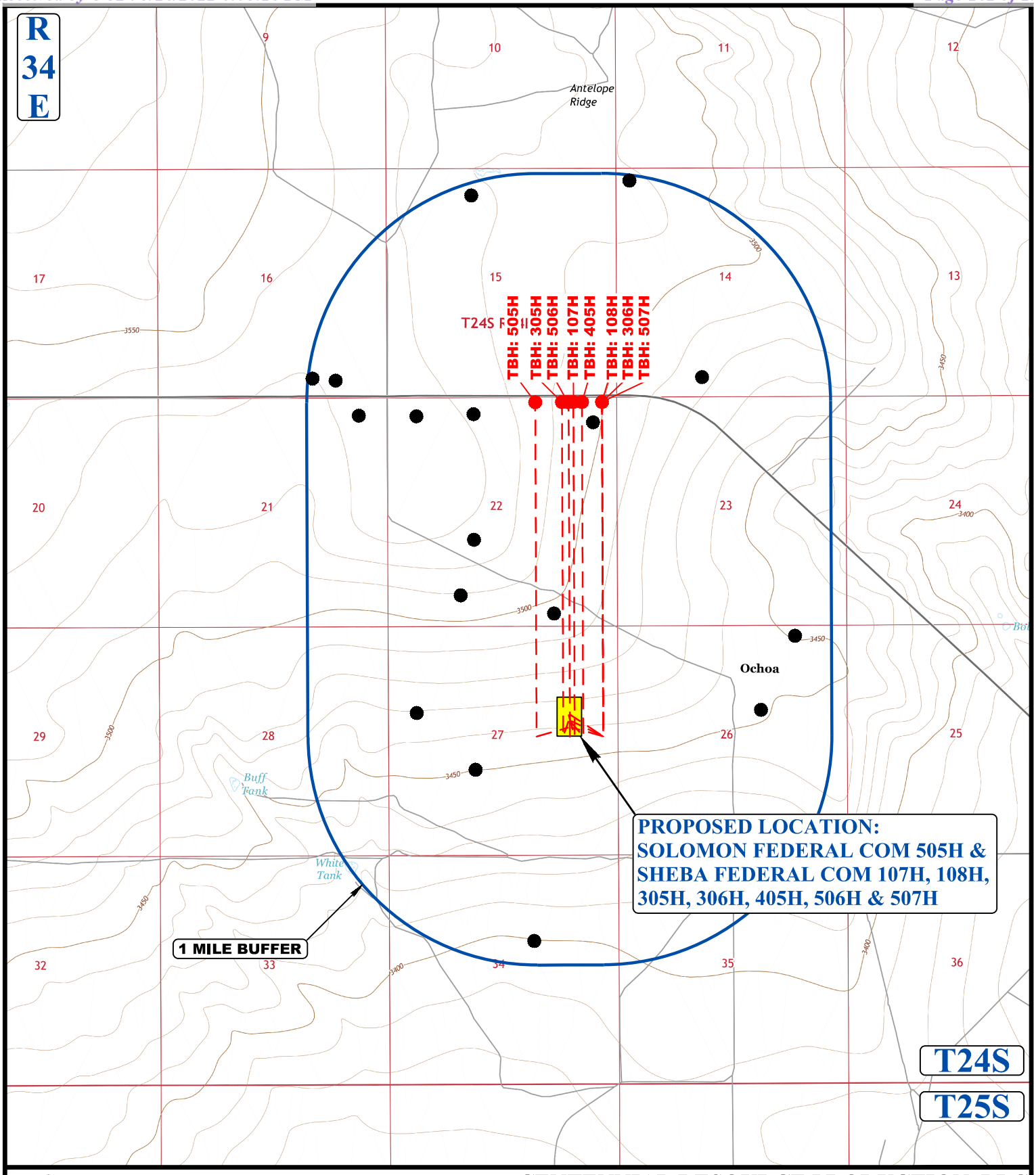
CENTENNIAL RESOURCE PRODUCTION, LLC

SOLOMON FEDERAL COM 505H & SHEBA FEDERAL COM 107H, 108H, 305H, 306H, 405H, 506H & 507H ON QUAIL RANCH LLC LANDS IN SECTION 27, T24S, R34E, N.M.P.M. LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., M.D.	08-09-19	SCALE
DRAWN BY	S.M.R.	09-12-19	N/A

ACCESS ROAD R-O-W

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



LEGEND:

● EXISTING WELLS

N

CENTENNIAL RESOURCE PRODUCTION, LLC

SOLOMON FEDERAL COM 505H & SHEBA FEDERAL COM 107H, 108H, 305H, 306H, 405H, 506H & 507H
SE 1/4 NE 1/4, SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C.	08-23-19	SCALE
DRAWN BY	S.T.O.	09-12-19	1 : 24,000
WELL PROXIMITY MAP			TOPO C

UINTAH ENGINEERING & LAND SURVEYING

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

JULIET FEDERAL COM 503H, 504H & SOLOMON FEDERAL COM 505H ON EXISTING JULIET FEDERAL COM 1H

SUPPLEMENTAL OIL & GAS SPREADSHEET TO TOPO "C"

DATE: 02-13-20 S.T.O.

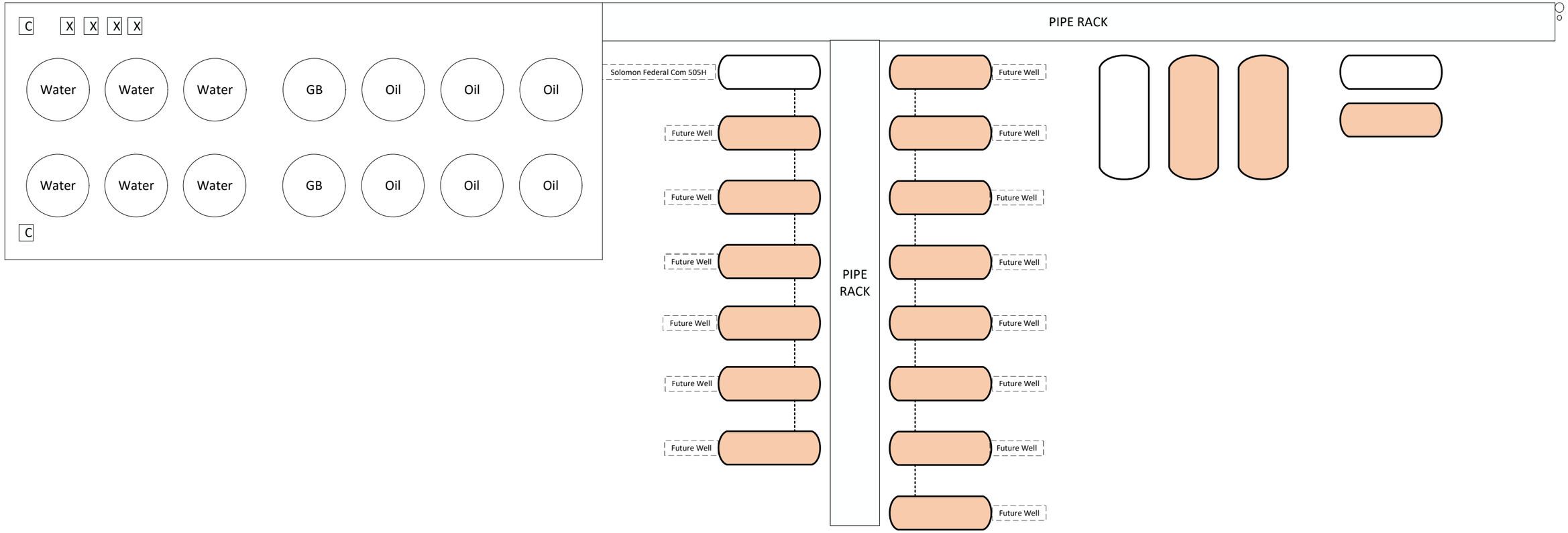
OBJECTID	API	OPERATOR	WELL NAME	WELL TYPE	WELL STATUS	UNIT LETTER-SECTION-TOWNSHIP-RANGE	NAD 83 LATITUDE	NAD 83 LONGITUDE
96265	30-025-42448	OWL SWD OPERATING LLC	MADERA SWD #001	Salt Water Disposal	Active	N-14-24S-34E	32.21148421	-103.44286420
29008	30-025-27572	STRATA PRODUCTION CO	BUCKEYE #001	Oil	Plugged (site released)	C-15-24S-34E	32.22302250	-103.45999150
97	30-025-45462	MARATHON OIL PERMIAN LLC	FLOWMASTER 15 FB FEE #016H	Oil	New	N-15-24S-34E	32.21200950	-103.45940230
118	30-025-45461	MARATHON OIL PERMIAN LLC	FLOWMASTER 15 WD FEE #012H	Gas	New	N-15-24S-34E	32.21200886	-103.45930510
138	30-025-44684	MARATHON OIL PERMIAN LLC	FLOWMASTER FEE 24 34 15 TB #010H	Oil	New	N-15-24S-34E	32.21190551	-103.46027630
139	30-025-44687	MARATHON OIL PERMIAN LLC	FLOWMASTER FEE 24 34 15 WA #014H	Oil	Active	N-15-24S-34E	32.21190496	-103.46017920
145	30-025-45460	MARATHON OIL PERMIAN LLC	FLOWMASTER 15 WB FEE #011H	Gas	New	N-15-24S-34E	32.21201081	-103.45963400
146	30-025-45463	MARATHON OIL PERMIAN LLC	FLOWMASTER 15 AV FEE #017H	Oil	New	N-15-24S-34E	32.21201020	-103.45949930
1404	30-025-44689	MARATHON OIL PERMIAN LLC	FLOWMASTER 15 WXY FEE #002H	Oil	Active	N-15-24S-34E	32.21190550	-103.46027630
63405	30-025-45965	MARATHON OIL PERMIAN LLC	FLOWMASTER 15 FB FEE #015H	Oil	Active	N-15-24S-34E	32.21190671	-103.46037340
66929	30-025-46000	MARATHON OIL PERMIAN LLC	WILL KANE 15 WXY FEE #010H	Gas	Active	O-15-24S-34E	32.21170309	-103.45357800
66945	30-025-45997	MARATHON OIL PERMIAN LLC	WILL KANE 15 WA FEE #006H	Oil	Active	O-15-24S-34E	32.21170365	-103.45367500
66946	30-025-45999	MARATHON OIL PERMIAN LLC	WILL KANE 15 WXY FEE #003H	Oil	Active	O-15-24S-34E	32.21170462	-103.45377180
66944	30-025-45998	MARATHON OIL PERMIAN LLC	WILL KANE 15 WA FEE #011H	Oil	Active	P-15-24S-34E	32.21170261	-103.45348100
99921	30-025-45380	EOG RESOURCES INC	JOLLY ROGER 16 STATE #708H	Oil	Active	N-16-24S-34E	32.21200450	-103.47698430
102603	30-025-45379	EOG RESOURCES INC	JOLLY ROGER 16 STATE #707H	Oil	Active	N-16-24S-34E	32.21200470	-103.47709100
1576	30-025-40566	CENTENNIAL RESOURCE PRODUCTION LLC	PIRATE STATE #001H	Oil	Active	O-16-24S-34E	32.21158600	-103.47171020
1615	30-025-43917	CENTENNIAL RESOURCE PRODUCTION LLC	PIRATE STATE #101H	Oil	Active	P-16-24S-34E	32.21130300	-103.46745800
1623	30-025-44426	CENTENNIAL RESOURCE PRODUCTION LLC	PIRATE STATE #301H	Oil	Active	P-16-24S-34E	32.21133500	-103.47020400
1546	30-025-43408	CENTENNIAL RESOURCE PRODUCTION LLC	RAIDER FEDERAL COM #101H	Oil	Active	A-21-24S-34E	32.20919490	-103.46850280
1620	30-025-43401	CENTENNIAL RESOURCE PRODUCTION LLC	RAIDER FEDERAL #301H	Oil	Active	B-21-24S-34E	32.20920340	-103.47431920
80563	30-025-08494	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	Plugged (site released)	B-21-24S-34E	32.20850750	-103.47277070
7664	30-025-46428	CENTENNIAL RESOURCE PRODUCTION LLC	RAIDER FEDERAL COM #702H	Oil	New	O-21-24S-34E	32.19661800	-103.47186700
9823	30-025-46427	CENTENNIAL RESOURCE PRODUCTION LLC	RAIDER FEDERAL COM #701H	Oil	New	O-21-24S-34E	32.19661900	-103.47196400
61398	30-025-28641	CIMAREX ENERGY CO. OF COLORADO	VACA RIDGE 21 FEDERAL COM #001	Gas	Plugged (site released)	O-21-24S-34E	32.19761660	-103.47274780
7665	30-025-46429	CENTENNIAL RESOURCE PRODUCTION LLC	RAIDER FEDERAL COM #703H	Oil	New	P-21-24S-34E	32.19661400	-103.46769700
17384	30-025-46301	CENTENNIAL RESOURCE PRODUCTION LLC	RAIDER FEDERAL COM #503H	Oil	New	P-21-24S-34E	32.19661600	-103.46963700
23892	30-025-46299	CENTENNIAL RESOURCE PRODUCTION LLC	RAIDER FEDERAL #501H	Oil	New	P-21-24S-34E	32.19661600	-103.46983100
23893	30-025-46300	CENTENNIAL RESOURCE PRODUCTION LLC	RAIDER FEDERAL COM #502H	Oil	New	P-21-24S-34E	32.19661600	-103.46973400
54010	30-025-46362	CENTENNIAL RESOURCE PRODUCTION LLC	RAIDER FEDERAL COM #704H	Oil	New	P-21-24S-34E	32.19661400	-103.46760000
1595	30-025-43358	CENTENNIAL RESOURCE PRODUCTION LLC	SHEBA FEDERAL COM #001H	Oil	Active	A-22-24S-34E	32.20858750	-103.45101130
1650	30-025-43414	CENTENNIAL RESOURCE PRODUCTION LLC	SOLOMON FEDERAL COM #001H	Oil	New	B-22-24S-34E	32.20918930	-103.45477590
1552	30-025-45577	CENTENNIAL RESOURCE PRODUCTION LLC	SOLOMON FEDERAL COM #505H	Oil	New	C-22-24S-34E	32.20918800	-103.45931000
1556	30-025-45554	CENTENNIAL RESOURCE PRODUCTION LLC	JULIET FEDERAL COM #503H	Oil	New	C-22-24S-34E	32.20919100	-103.46191900
1574	30-025-43385	CENTENNIAL RESOURCE PRODUCTION LLC	JULIET FEDERAL COM #001H	Oil	Active	C-22-24S-34E	32.20919210	-103.45996790
1636	30-025-45576	CENTENNIAL RESOURCE PRODUCTION LLC	JULIET FEDERAL COM #504H	Oil	New	C-22-24S-34E	32.20919000	-103.46182200
1555	30-025-45557	CENTENNIAL RESOURCE PRODUCTION LLC	ROMEO FEDERAL COM #705H	Oil	New	D-22-24S-34E	32.20919200	-103.46374900
1598	30-025-45556	CENTENNIAL RESOURCE PRODUCTION LLC	ROMEO FEDERAL COM #706H	Oil	New	D-22-24S-34E	32.20919200	-103.46365200
1642	30-025-45555	CENTENNIAL RESOURCE PRODUCTION LLC	JULIET FEDERAL COM #707H	Oil	New	D-22-24S-34E	32.20919200	-103.46355400
1651	30-025-42999	CENTENNIAL RESOURCE PRODUCTION LLC	ROMEO FEDERAL COM #001H	Oil	Active	D-22-24S-34E	32.20919210	-103.46423440
82319	30-025-28235	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	Plugged (site released)	K-22-24S-34E	32.20123670	-103.45995330
82643	30-025-30179	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	Plugged (site released)	N-22-24S-34E	32.19760510	-103.46101380
1541	30-025-45404	CENTENNIAL RESOURCE PRODUCTION LLC	SHEBA FEDERAL COM #506H	Oil	New	O-22-24S-34E	32.19660600	-103.45505300
1568	30-025-45374	CENTENNIAL RESOURCE PRODUCTION LLC	SHEBA FEDERAL COM #711H	Oil	Active	O-22-24S-34E	32.19660500	-103.45395400
1575	30-025-45405	CENTENNIAL RESOURCE PRODUCTION LLC	SHEBA FEDERAL COM #507H	Oil	New	O-22-24S-34E	32.19660600	-103.45495500
1604	30-025-45376	CENTENNIAL RESOURCE PRODUCTION LLC	SOLOMON FEDERAL COM #710H	Oil	Active	O-22-24S-34E	32.19660500	-103.45405100
1639	30-025-45375	CENTENNIAL RESOURCE PRODUCTION LLC	SOLOMON FEDERAL COM #709H	Oil	Active	O-22-24S-34E	32.19660500	-103.45414800
36790	30-025-46514	MATADOR PRODUCTION COMPANY	BRAD LUMMIS COM #122H	Oil	New	C-23-24S-34E	32.20946740	-103.44205830
43126	30-025-45441	MATADOR PRODUCTION COMPANY	BRAD LUMMIS COM #212H	Oil	Active	C-23-24S-34E	32.20945160	-103.44219270
43235	30-025-45440	MATADOR PRODUCTION COMPANY	BRAD LUMMIS COM #112H	Oil	New	C-23-24S-34E	32.20940110	-103.44211600
43102	30-025-45709	MATADOR PRODUCTION COMPANY	BRAD LUMMIS FEDERAL COM #221H	Oil	New	D-23-24S-34E	32.20911030	-103.44790930
43144	30-025-45513	MATADOR PRODUCTION COMPANY	BRAD LUMMIS FEDERAL COM #201H	Oil	New	D-23-24S-34E	32.20910250	-103.44781280
43146	30-025-45580	MATADOR PRODUCTION COMPANY	BRAD LUMMIS FEDERAL COM #131H	Oil	New	D-23-24S-34E	32.20909460	-103.44771620
43166	30-025-45581	MATADOR PRODUCTION COMPANY	BRAD LUMMIS FEDERAL COM #211H	Oil	Active	D-23-24S-34E	32.20907900	-103.44752290
43185	30-025-45511	MATADOR PRODUCTION COMPANY	BRAD LUMMIS FEDERAL COM #111H	Oil	Active	D-23-24S-34E	32.20919230	-103.44790010
45482	30-025-45512	MATADOR PRODUCTION COMPANY	BRAD LUMMIS FEDERAL COM #121H	Oil	New	D-23-24S-34E	32.20908680	-103.44761960
74548	30-025-46354	EOG RESOURCES INC	KESTREL 26 FEDERAL #702H	Oil	New	M-26-24S-34E	32.18246200	-103.44609640
85799	30-025-29917	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Gas	Plugged (site released)	E-27-24S-34E	32.19034960	-103.46420290
91224	30-025-28321	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL #001	Oil	Plugged (site released)	K-27-24S-34E	32.18671420	-103.45993040
63442	30-025-45939	EOG RESOURCES INC	PEREGRINE 27 FEDERAL COM #311H	Oil	New	M-27-24S-34E	32.18350790	-103.46470040
63361	30-025-46105	EOG RESOURCES INC	PEREGRINE 27 FEDERAL COM #707H	Oil	New	O-27-24S-34E	32.18198700	-103.45526230
63339	30-025-46108	EOG RESOURCES INC	PEREGRINE 27 FEDERAL COM #710H	Oil	New	P-27-24S-34E	32.18181950	-103.45189810
63363	30-025-46107	EOG RESOURCES INC	PEREGRINE 27 FEDERAL COM #709H	Oil	New	P-27-24S-34E	32.18181950	-103.45200470

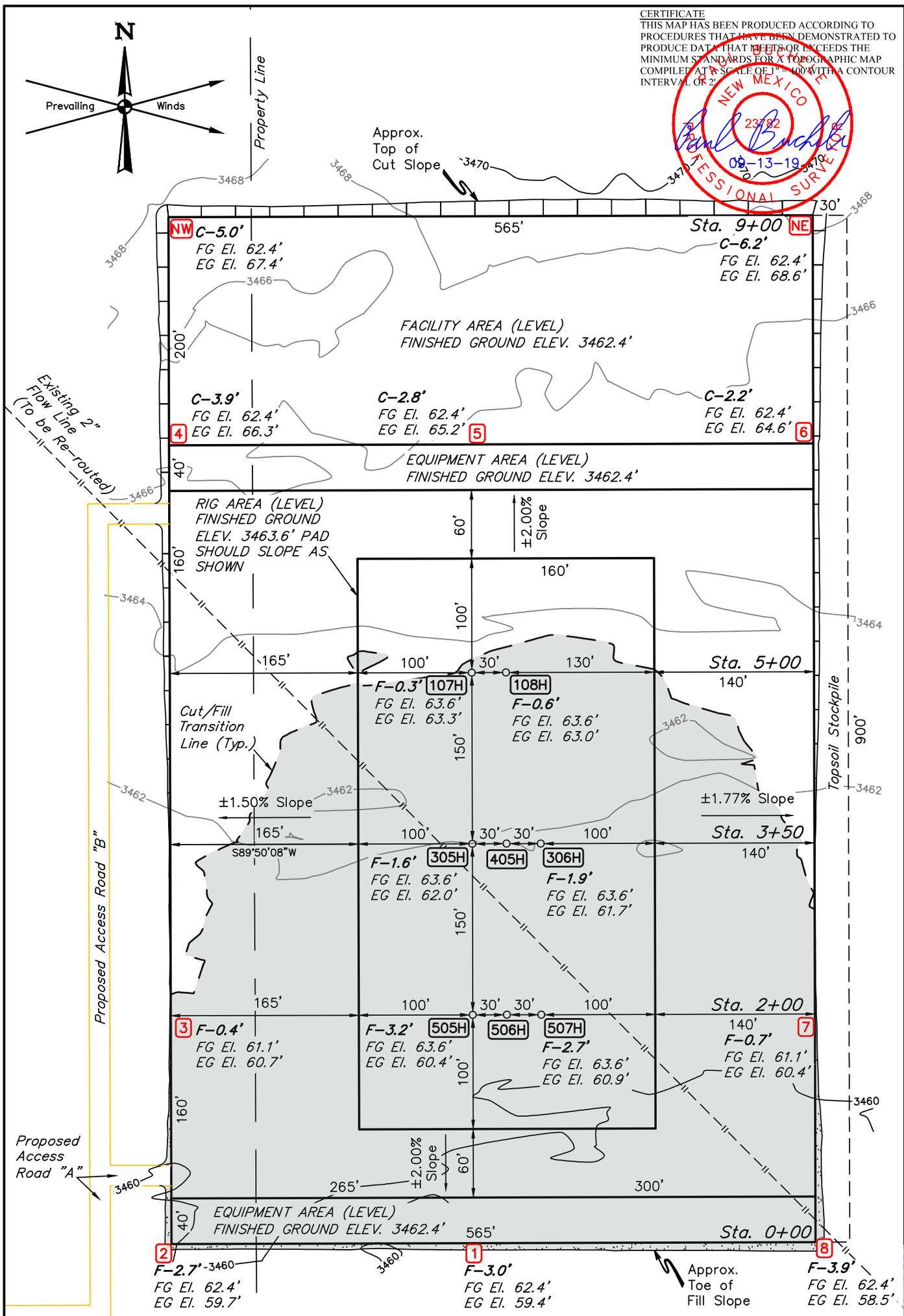
JULIET FEDERAL COM 503H, 504H & SOLOMON FEDERAL COM 505H ON EXISTING JULIET FEDERAL COM 1H

SUPPLEMENTAL OIL & GAS SPREADSHEET TO TOPO "C"

DATE: 02-13-20 S.T.O.

OBJECTID	API	OPERATOR	WELL NAME	WELL TYPE	WELL STATUS	UNIT LETTER-SECTION-TOWNSHIP-RANGE	NAD 83 LATITUDE	NAD 83 LONGITUDE
63365	30-025-46106	EOG RESOURCES INC	PEREGRINE 27 FEDERAL COM #708H	Oil	New	P-27-24S-34E	32.18181960	-103.45211140
99688	30-025-44875	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #314H	Oil	New	A-28-24S-34E	32.19524100	-103.46850600
99813	30-025-44874	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #313H	Oil	New	A-28-24S-34E	32.19524110	-103.46861270
103309	30-025-44930	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #715H	Oil	New	A-28-24S-34E	32.19524090	-103.46839930
99796	30-025-44929	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #712H	Oil	New	B-28-24S-34E	32.19524390	-103.47159960
99917	30-025-44873	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #308H	Oil	New	B-28-24S-34E	32.19524590	-103.47488510
99919	30-025-44928	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #711H	Oil	New	B-28-24S-34E	32.19524390	-103.47170620
102602	30-025-44926	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #309H	Oil	New	B-28-24S-34E	32.19524670	-103.47477840
103308	30-025-44927	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #710H	Oil	New	B-28-24S-34E	32.19524400	-103.47181290
99687	30-025-44872	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #707H	Oil	New	C-28-24S-34E	32.19524680	-103.47499170
99812	30-025-44871	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #706H	Oil	New	C-28-24S-34E	32.19524900	-103.47749650
99916	30-025-44870	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #705H	Oil	New	C-28-24S-34E	32.19524910	-103.47760310
103305	30-025-44869	EOG RESOURCES INC	STONEWALL 28 FEDERAL COM #704H	Oil	New	C-28-24S-34E	32.19524920	-103.47770980
102787	30-025-28488	EOG RESOURCES INC	PITCHFORK RANCH 28 FEDERAL COM #001	Gas	Active	G-28-24S-34E	32.19035720	-103.47274020
102847	30-025-27826	EOG RESOURCES INC	MADERA 28 FEDERAL COM #001	Gas	Active	N-28-24S-34E	32.18309780	-103.47696690
103009	30-025-29862	EOG RESOURCES INC	MADERA 28 FEDERAL COM #002	Gas	Plugged (site released)	N-28-24S-34E	32.18309780	-103.47625730
103281	30-025-29926	EOG RESOURCES INC	MADERA 33 FEDERAL COM #004	Gas	Plugged (site released)	J-33-24S-34E	32.17310330	-103.47270200
112204	30-025-28596	JOHNNY G JONES	MOORE 34 COM #001	Oil	Plugged (site released)	G-34-24S-34E	32.17582320	-103.45564270
99734	30-025-28002	EOG RESOURCES INC	PITCHFORK 34 FEDERAL COM #001	Gas	Active	L-34-24S-34E	32.17219160	-103.46417240





NOTE: Earthwork Calculations Require a Fill @ the Location Stakes 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:

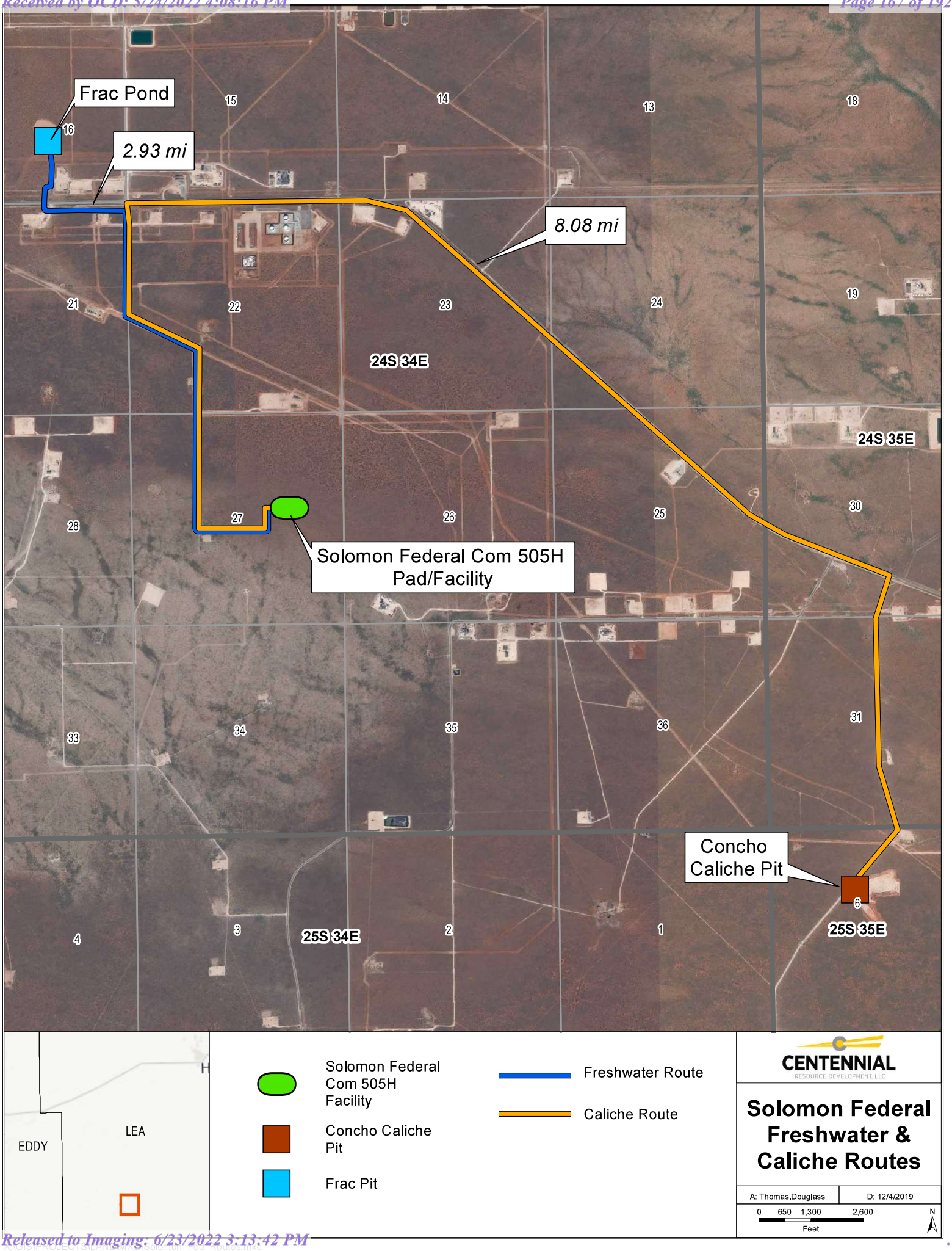
- Contours shown at 2' intervals.
- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00"

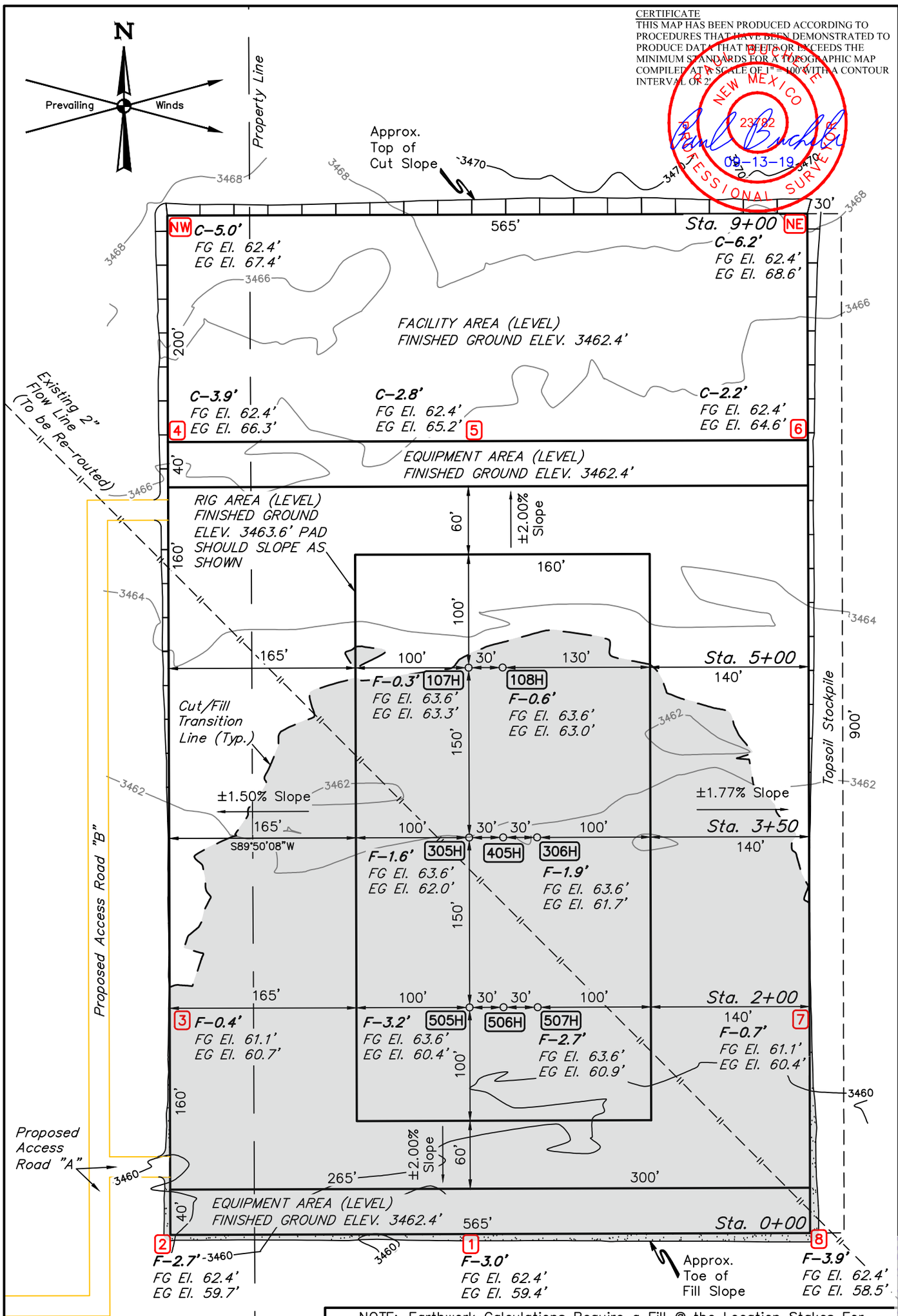
CENTENNIAL RESOURCE PRODUCTION, LLC

SOLOMON FEDERAL COM 505H & SHEBA FEDERAL COM 107H, 108H, 305H, 306H, 405H, 506H & 507H
SE 1/4 NE 1/4, SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C.	08-23-19	SCALE
DRAWN BY	D.J.S.	09-12-19	1" = 100'
LOCATION LAYOUT			FIGURE #1

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





NOTE: Earthwork Calculations Require a Fill @ the Location Stakes 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:

- Contours shown at 2' intervals.
- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00"

CENTENNIAL RESOURCE PRODUCTION, LLC

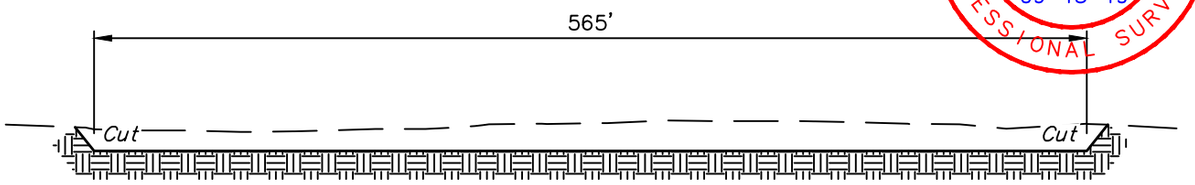
SOLOMON FEDERAL COM 505H & SHEBA FEDERAL COM 107H, 108H, 305H, 306H, 405H, 506H & 507H
SE 1/4 NE 1/4, SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C.	08-23-19	SCALE
DRAWN BY	D.J.S.	09-12-19	1" = 100'
LOCATION LAYOUT			FIGURE #1

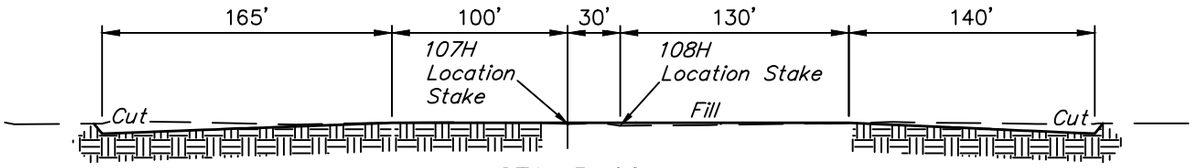
UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

1" = 40'
X-Section Scale
1" = 100'

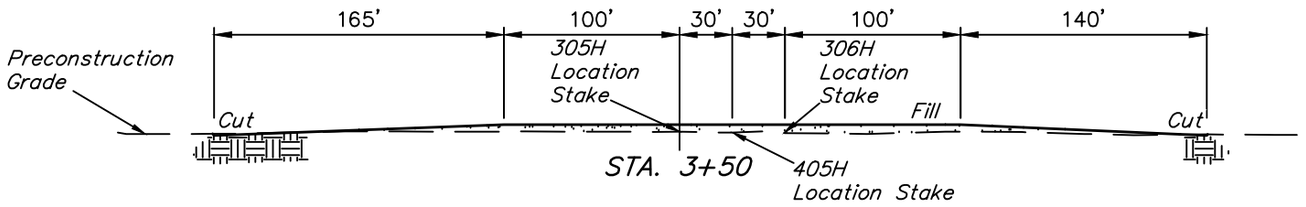
PAUL BUCHELE
NEW MEXICO
23782
09-13-19
PROFESSIONAL SURVEYOR



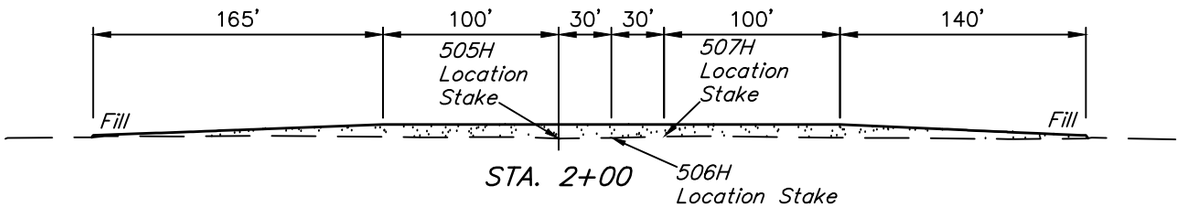
STA. 9+00



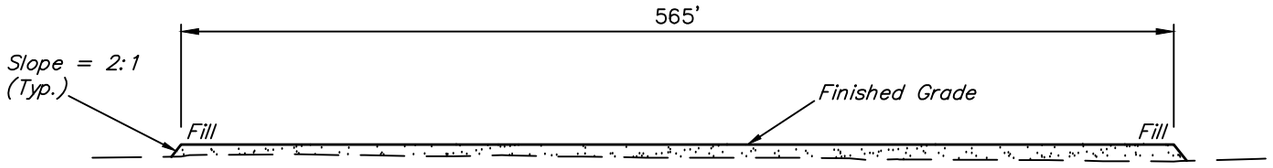
STA. 5+00



STA. 3+50



STA. 2+00



STA. 0+00

APPROXIMATE EARTHWORK QUANTITIES	
(4") TOPSOIL STRIPPING	6,510 Cu. Yds.
REMAINING LOCATION	23,890 Cu. Yds.
TOTAL CUT	**30,400 Cu. Yds.**
FILL	**23,890 Cu. Yds.**
EXCESS MATERIAL	6,510 Cu. Yds.
TOPSOIL	6,510 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	**0 Cu. Yds.**

APPROXIMATE SURFACE DISTURBANCE AREAS		
	DISTANCE	**ACRES**
SURFACE USE AREA (SEE ROMEO-JULIET-SOLOMON-SHEBA PADS "EXHIBIT A")	NA	±12.862
65' WIDE ACCESS ROAD "A" R-O-W DISTURBANCE	±1019.91'	±1.522
65' WIDE ACCESS ROAD "B" R-O-W DISTURBANCE	±642.50'	±0.959
TOTAL SURFACE USE AREA		**±15.343**

NOTES:

- Fill quantity includes 5% for compaction.

CENTENNIAL RESOURCE PRODUCTION, LLC

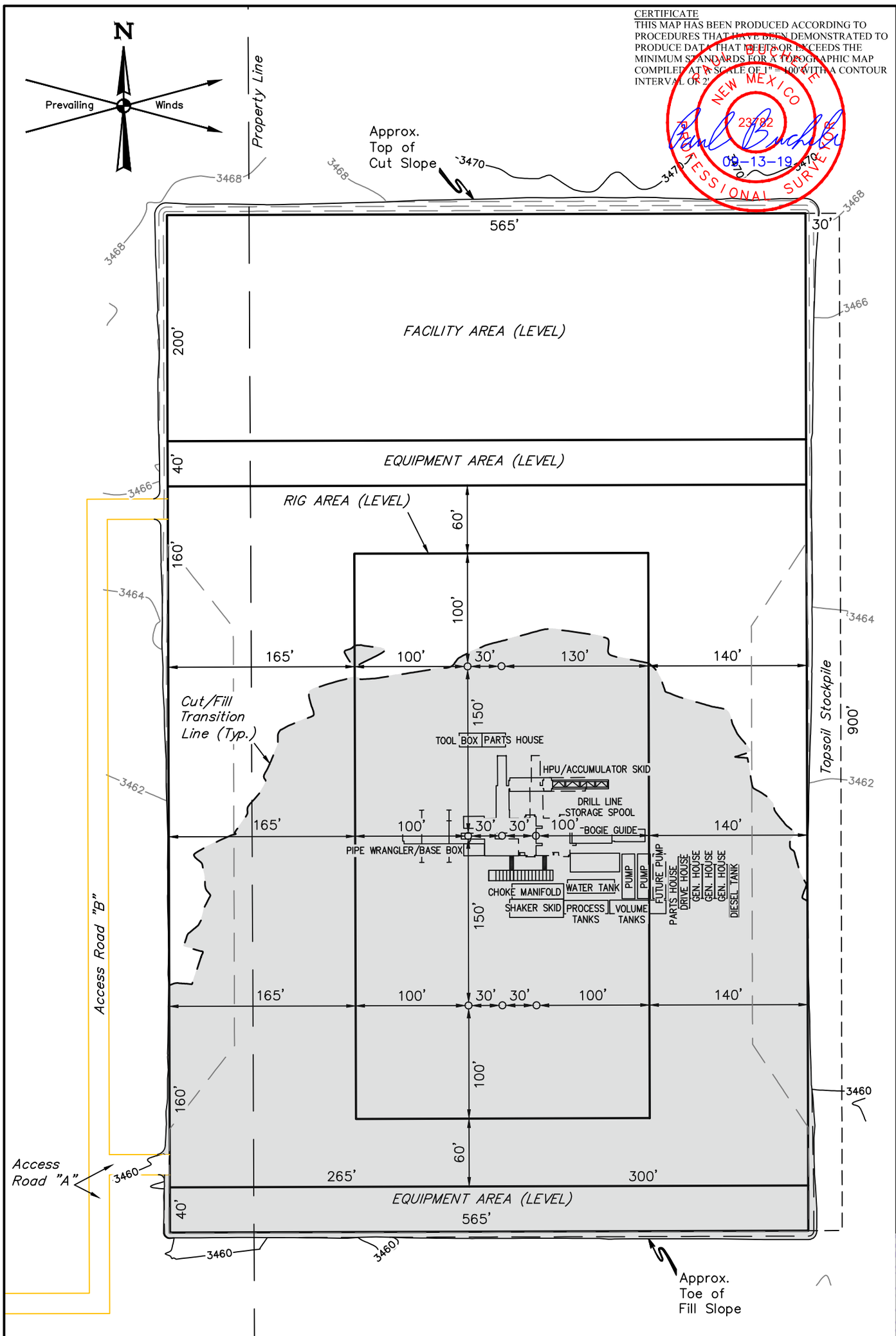
SOLOMON FEDERAL COM 505H & SHEBA FEDERAL COM 107H, 108H, 305H, 306H, 405H, 506H & 507H
SE 1/4 NE 1/4, SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C.	08-23-19	**SCALE**
DRAWN BY	D.J.S.	09-12-19	AS SHOWN

TYPICAL CROSS SECTIONS **FIGURE #2**

UINTAH ENGINEERING & LAND SURVEYING

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



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'.

STATE OF NEW MEXICO
23782
PROFESSIONAL SURVEYOR
09-13-19

NOTES:

- Contours shown at 2' intervals.

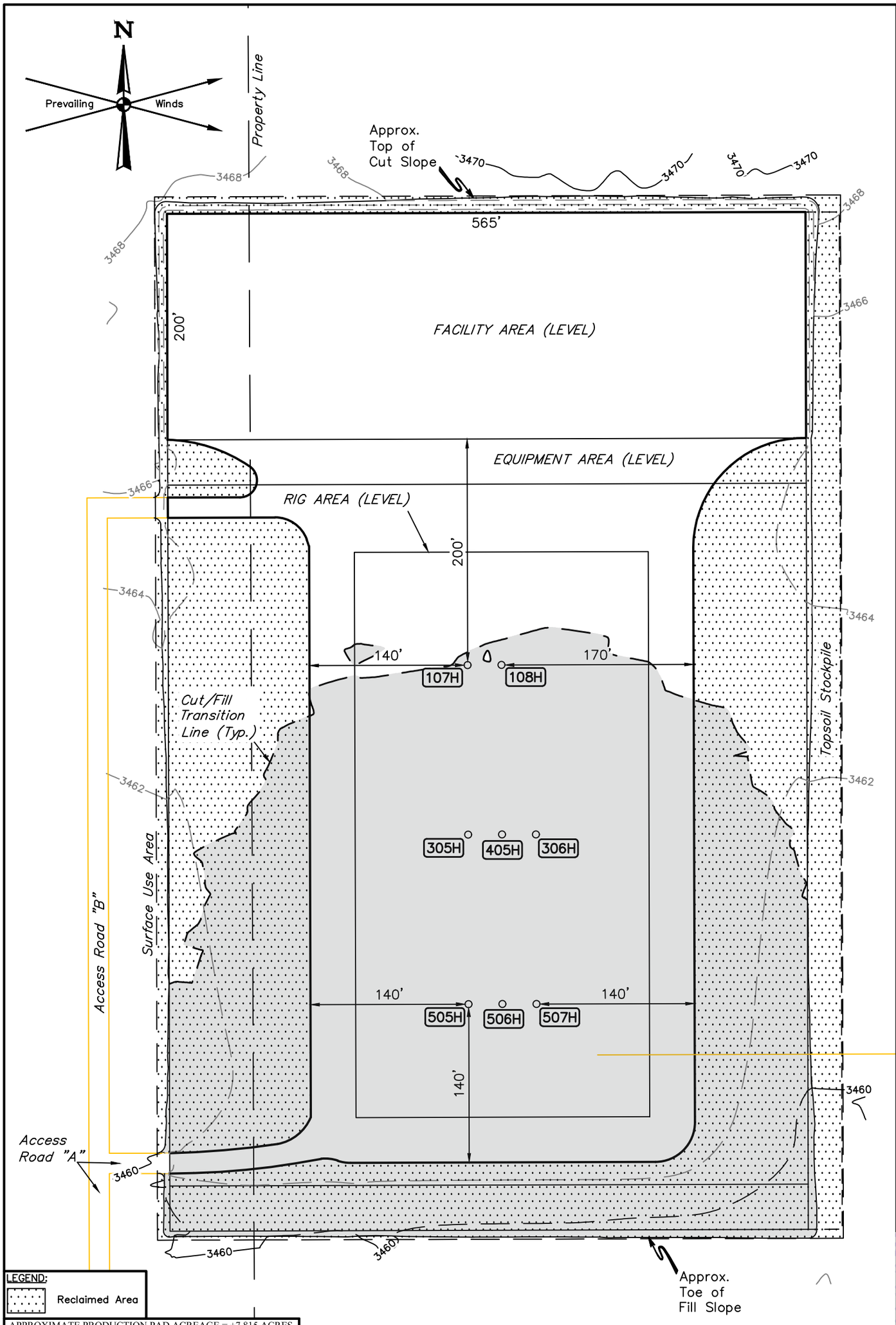
CENTENNIAL RESOURCE PRODUCTION, LLC

SOLOMON FEDERAL COM 505H & SHEBA FEDERAL COM 107H, 108H, 305H, 306H, 405H, 506H & 507H
SE 1/4 NE 1/4, SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C.	08-23-19	SCALE
DRAWN BY	D.J.S.	09-12-19	1" = 100'

TYPICAL RIG LAYOUT | **FIGURE #3**

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



LEGEND:

Reclaimed Area

APPROXIMATE PRODUCTION PAD ACREAGE = ±7.815 ACRES
APPROXIMATE RECLAIMED AREA ACREAGE = ±5.047 ACRES
TOTAL ACREAGE = ±12.862 ACRES

NOTES:

- Contours shown at 2' intervals.

CENTENNIAL RESOURCE PRODUCTION, LLC

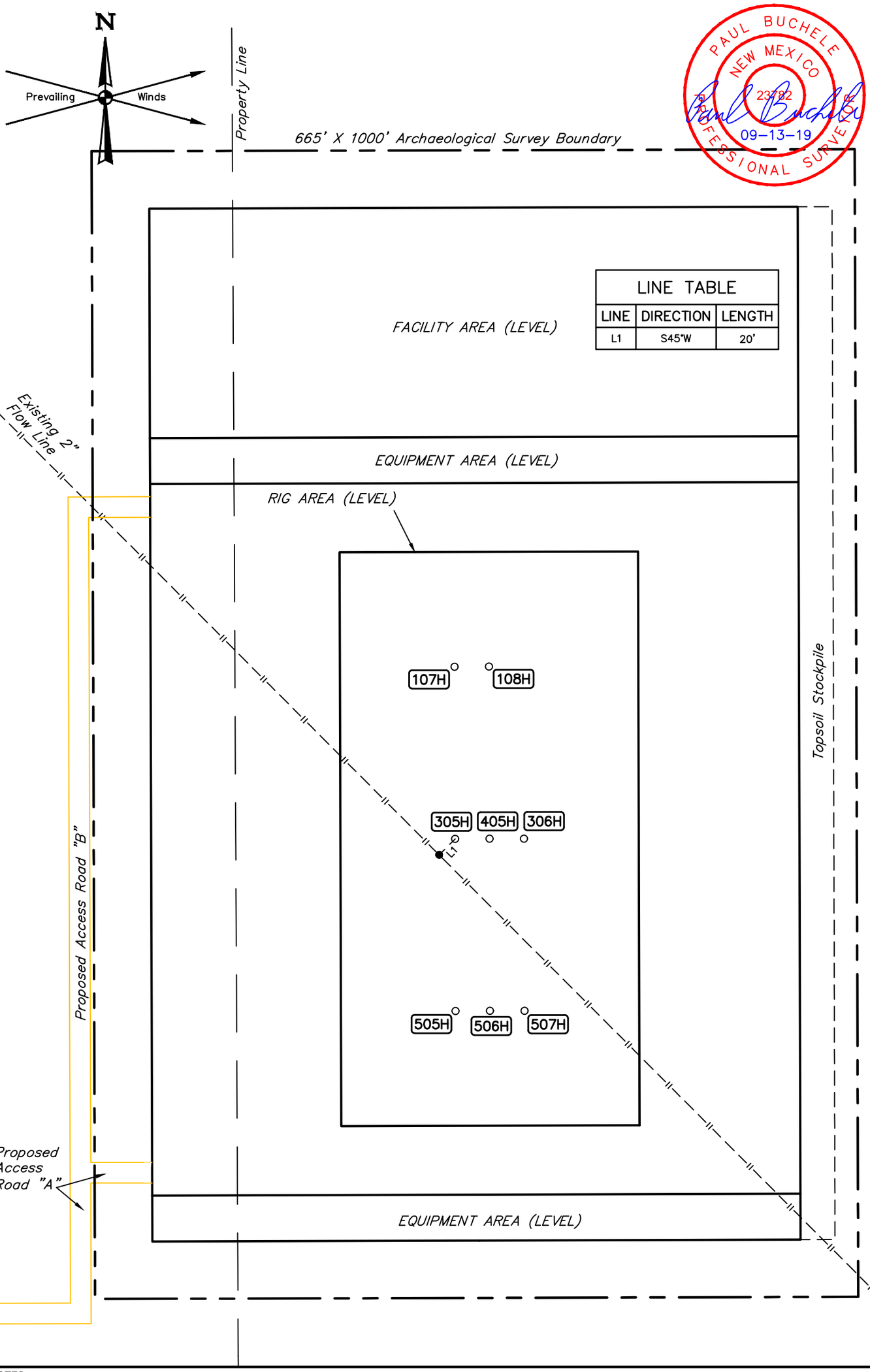
SOLOMON FEDERAL COM 505H & SHEBA FEDERAL COM 107H, 108H, 305H, 306H, 405H, 506H & 507H
SE 1/4 NE 1/4, SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C.	08-23-19	SCALE
DRAWN BY	D.J.S.	09-12-19	1" = 100'

RECLAMATION DIAGRAM | **FIGURE #4**

UINTAH ENGINEERING & LAND SURVEYING

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



NOTES:

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

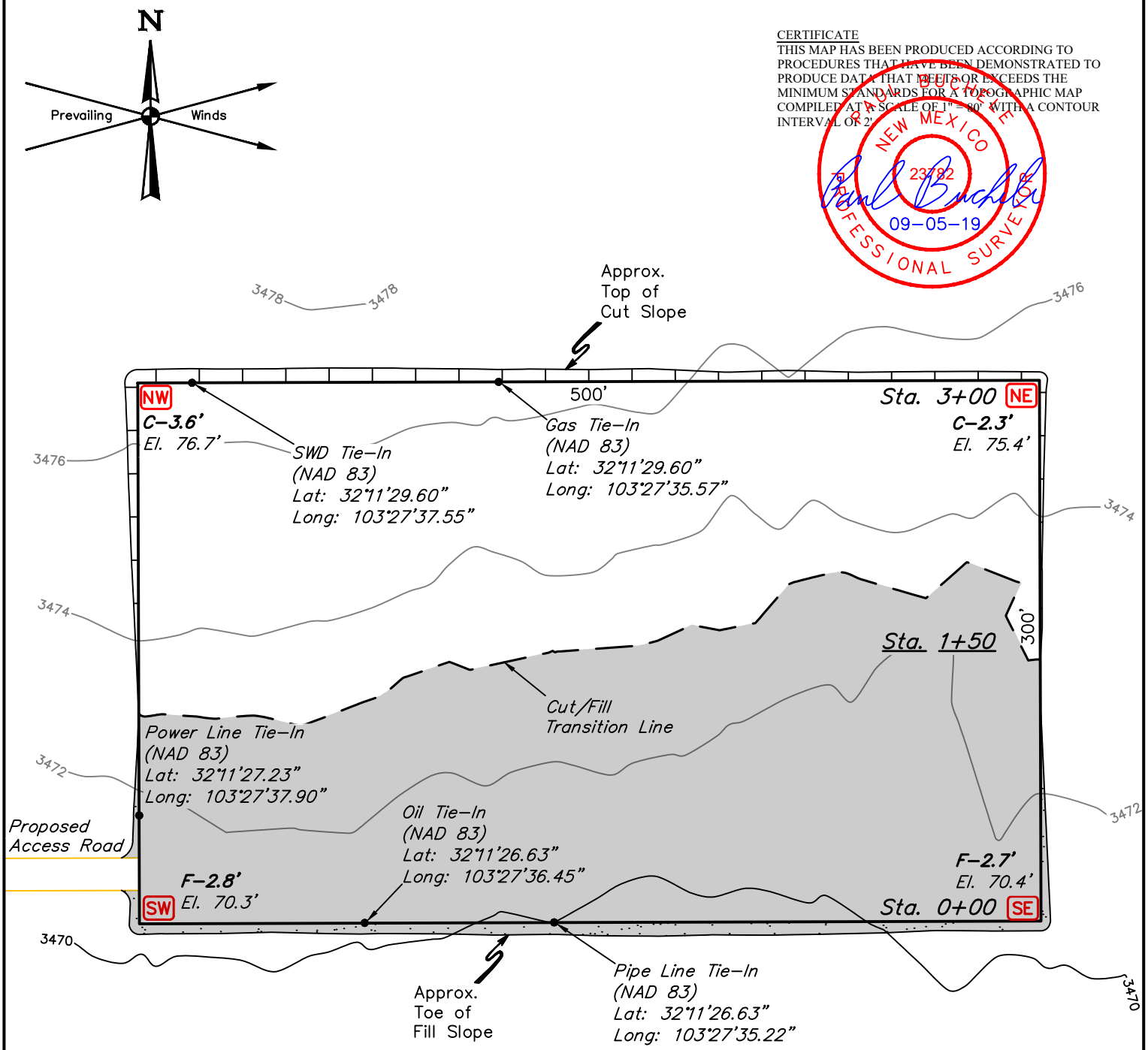
CENTENNIAL RESOURCE PRODUCTION, LLC

SOLOMON FEDERAL COM 505H & SHEBA FEDERAL COM 107H, 108H, 305H, 306H, 405H, 506H & 507H
SE 1/4 NE 1/4, SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C.	08-23-19	SCALE
DRAWN BY	D.J.S.	09-12-19	1" = 100'
ARCHAEOLOGICAL SURVEY BOUNDARY			FIGURE #5

UINTAH ENGINEERING & LAND SURVEYING

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



FINISHED GRADE ELEVATION = **3473.1'**

NOTES:

- Contours shown at 2' intervals.
- Cut/Fill slopes 2:1 (Typ.)
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00"

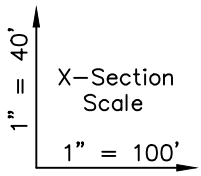
CENTENNIAL RESOURCE PRODUCTION, LLC

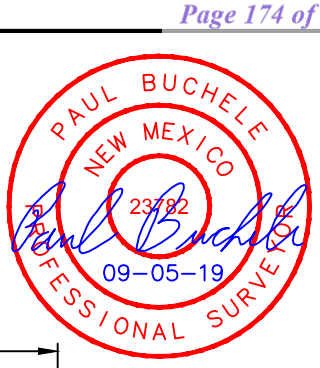
ROMEO-JULIET FEDERAL COM AREA CTB
SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

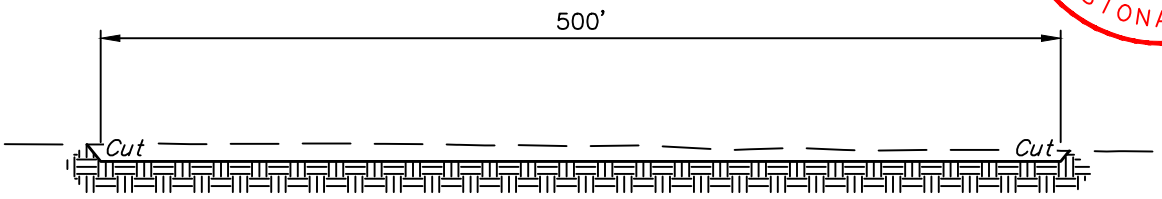
UINTAH ENGINEERING & LAND SURVEYING

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

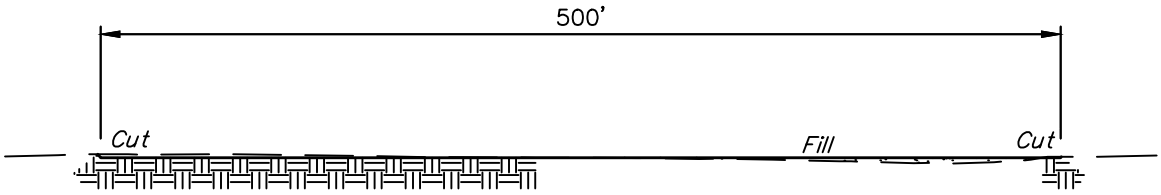
SURVEYED BY	B.B., R.C.	08-23-19	SCALE
DRAWN BY	R.J.	09-05-19	1" = 80'
LOCATION LAYOUT			FIGURE #1



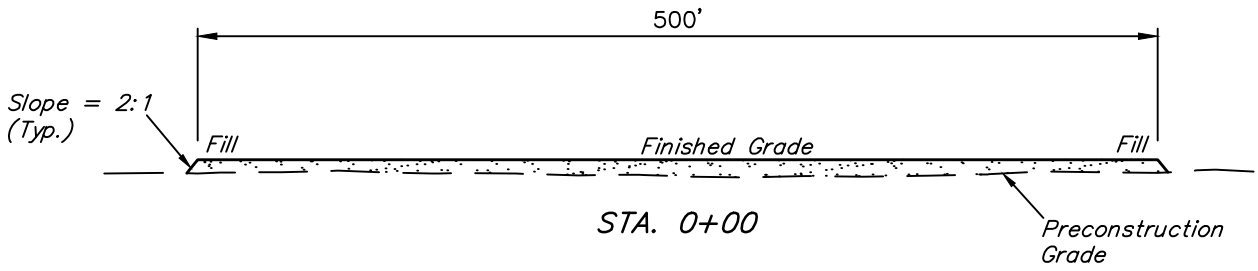




STA. 3+00



STA. 1+50



STA. 0+00

APPROXIMATE PAD EARTHWORK QUANTITIES	
CUT	4,430 Cu. Yds.
FILL	4,430 Cu. Yds.
TOTAL	**0 Cu. Yds.**

APPROXIMATE SURFACE DISTURBANCE AREAS		
	DISTANCE	**ACRES**
SURFACE USE AREA (SEE ROMEO-JULIET-SOLOMON-SHEBA PADS EXHIBIT "A")	NA	±3.741
65' WIDE ACCESS ROAD R-O-W DISTURBANCE	±87.48'	±0.131
TOTAL SURFACE USE AREA		**±3.872**

NOTES:

- Fill quantity includes 5% for compaction.
- Cut/Fill slopes 2:1 (Typ.)

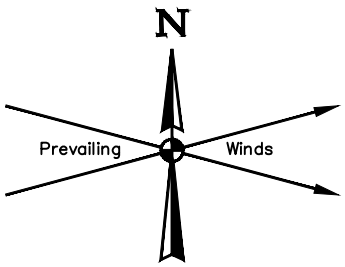
CENTENNIAL RESOURCE PRODUCTION, LLC

ROMEO-JULIET FEDERAL COM AREA CTB
SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

UINTAH ENGINEERING & LAND SURVEYING

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

SURVEYED BY	B.B., R.C.	08-23-19	SCALE
DRAWN BY	R.J.	09-05-19	AS SHOWN
TYPICAL CROSS SECTIONS			**FIGURE #2**



PAUL BUCHELE
NEW MEXICO
23782
PROFESSIONAL SURVEYOR
09-05-19

600' X 400'
Archaeological Survey Boundary

Proposed
Access Road

CENTENNIAL RESOURCE PRODUCTION, LLC

ROMEO-JULIET FEDERAL COM AREA CTB
SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

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

SURVEYED BY	B.B., R.C.	08-23-19	SCALE
DRAWN BY	R.J.	09-05-19	1" = 80'
ARCHAEOLOGICAL SURVEY BOUNDARY			FIGURE #5

PROCEED IN A WESTERLY, THEN NORTHWESTERLY, THEN WESTERLY DIRECTION FROM JAL, NEW MEXICO ALONG NM-128 APPROXIMATELY 18.0 MILES TO THE JUNCTION OF THIS ROAD AND COUNTY ROAD 2-B TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 1.2 MILES TO THE BEGINNING OF THE PROPOSED ROMEO FEDERAL COM 304H & JULIET FEDERAL COM 402H ACCESS ROAD TO THE SOUTH; FOLLOW ROAD FLAGS IN A SOUTHERLY DIRECTION APPROXIMATELY 1,875' TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY DIRECTION APPROXIMATELY 87' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM JAL, NEW MEXICO TO THE PROPOSED LOCATION IS APPROXIMATELY 19.6 MILES.

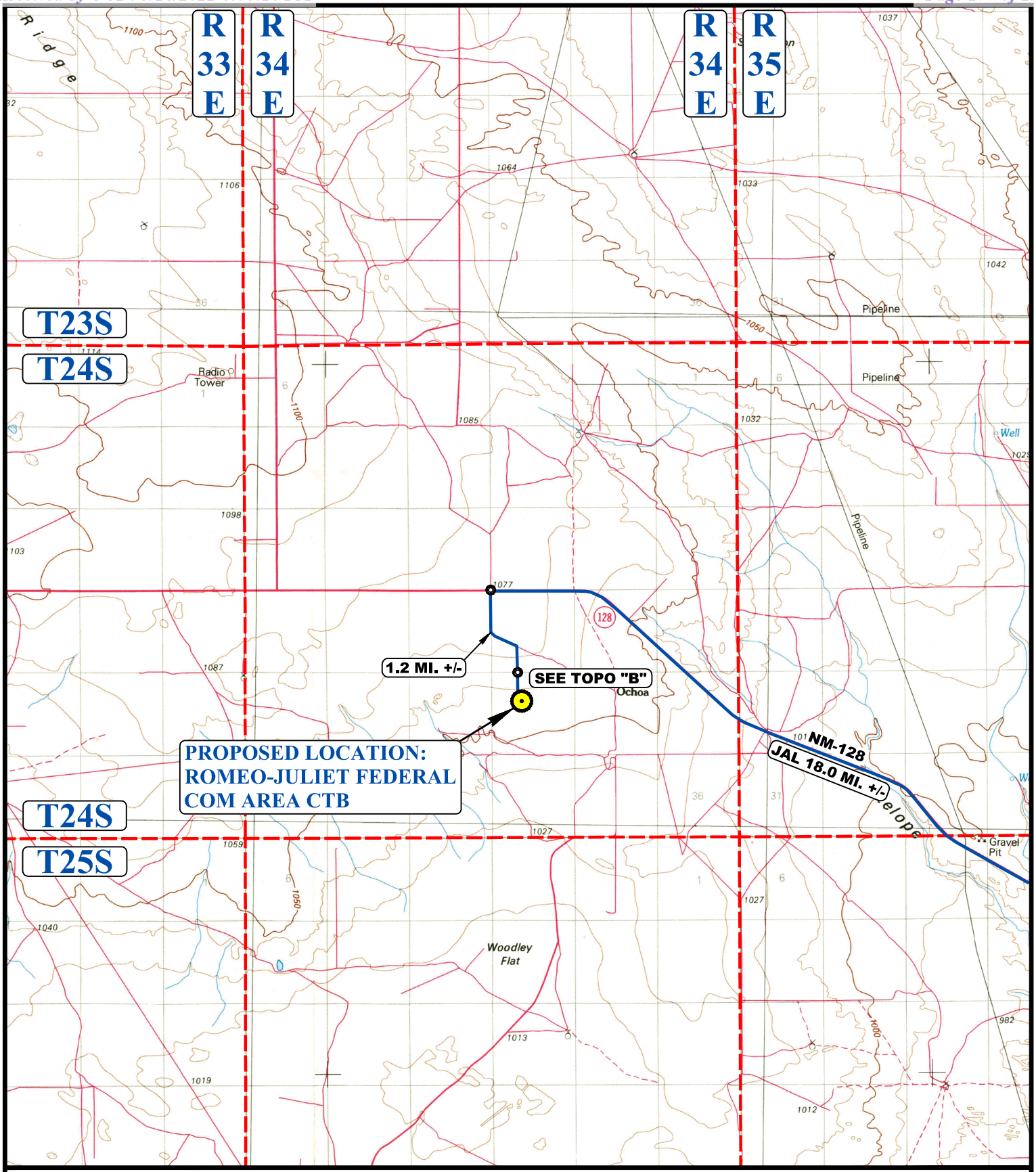
CENTENNIAL RESOURCE PRODUCTION, LLC

ROMEO-JULIET FEDERAL COM AREA CTB
SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

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

SURVEYED BY	B.B., R.C.	08-23-19	
DRAWN BY	S.T.O.	09-06-19	

ROAD DESCRIPTION



LEGEND:

PROPOSED LOCATION

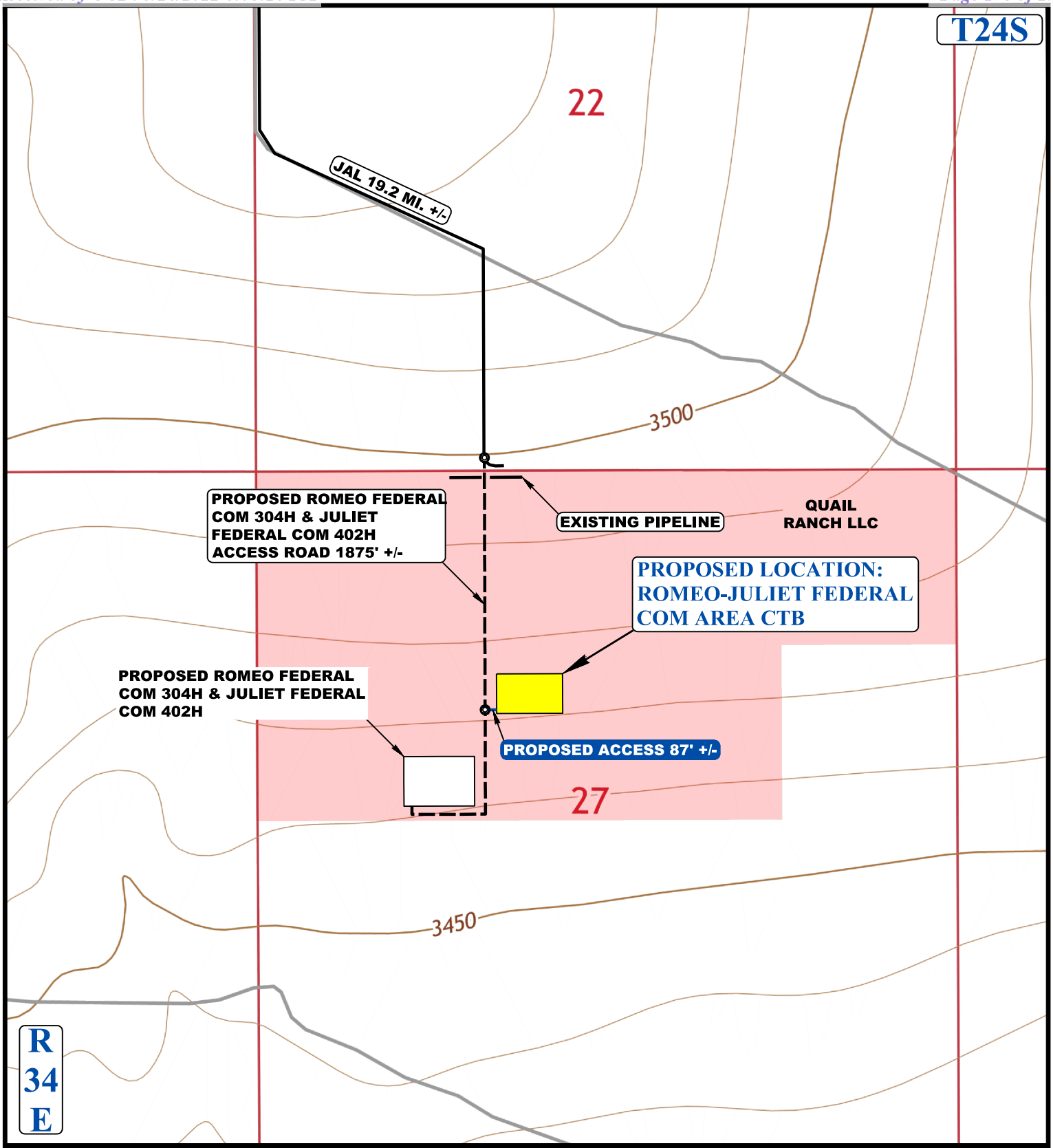
CENTENNIAL RESOURCE PRODUCTION, LLC

ROMEO-JULIET FEDERAL COM AREA CTB
SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C.	08-23-19	SCALE
DRAWN BY	S.T.O.	09-06-19	1 : 100,000
ACCESS ROAD MAP			TOPO A

UINTAH ENGINEERING & LAND SURVEYING

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



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
- PROPOSED ROAD (SERVICING OTHER WELLS)
- EXISTING PIPELINE

UINTAH ENGINEERING & LAND SURVEYING

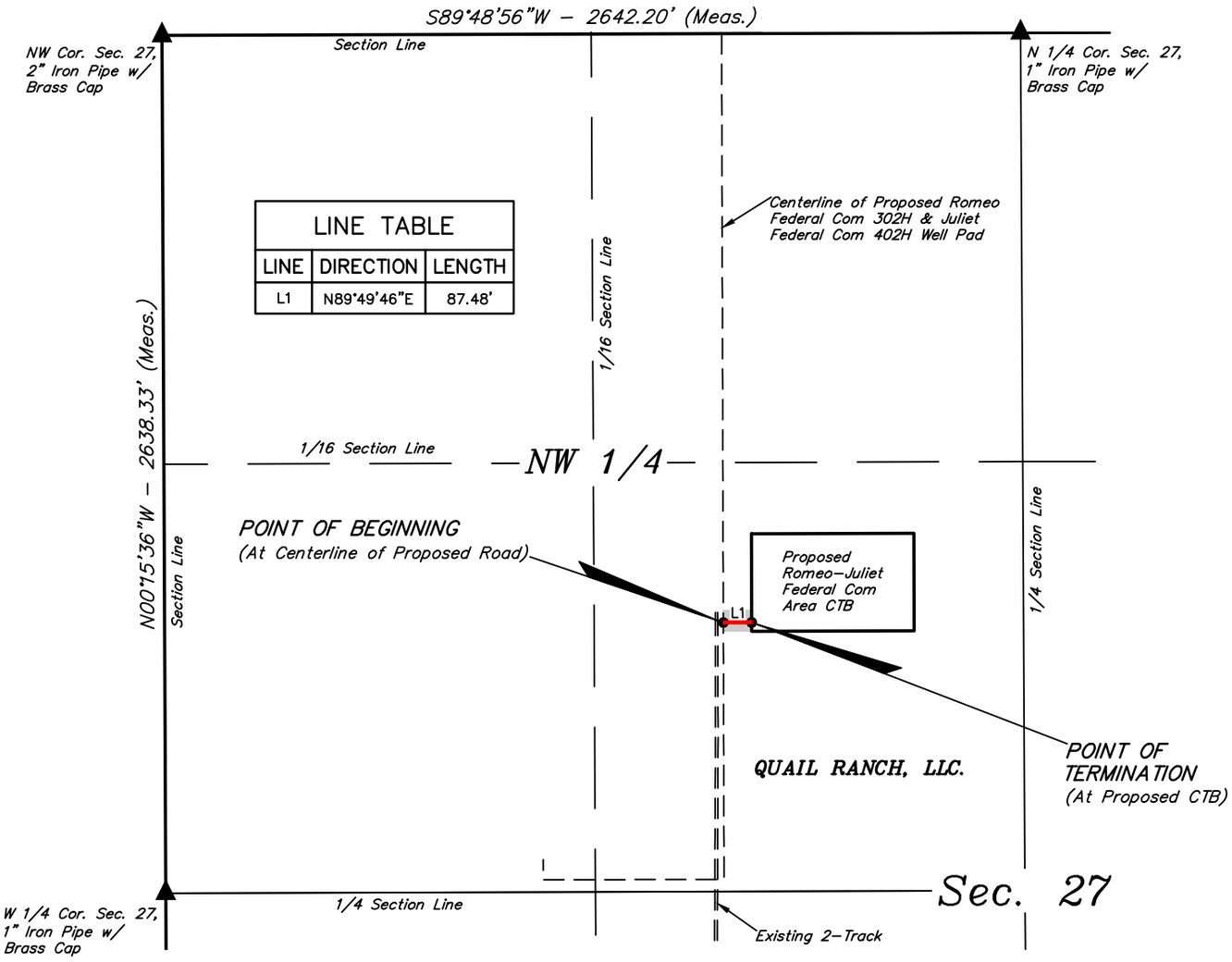
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

N

CENTENNIAL RESOURCE PRODUCTION, LLC

ROMEO-JULIET FEDERAL COM AREA CTB
SECTION 27, T24S, R34E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C.	08-23-19	SCALE
DRAWN BY	S.T.O.	09-06-19	1 : 12,000
ACCESS ROAD MAP			TOPO B



PROPOSED ROAD RIGHT–OF–WAY DESCRIPTION

A 65' WIDE RIGHT–OF–WAY 37.5' ON THE LEFT SIDE AND 27.5' ON THE RIGHT SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE SE 1/4 NW 1/4 OF SECTION 27, T24S, R34E, N.M.P.M., WHICH BEARS N64°06'54"E 1907.01' FROM THE WEST 1/4 CORNER OF SAID SECTION 27, THENCE N89°49'46"E 87.48' TO A POINT IN THE SE 1/4 NW 1/4 OF SAID SECTION 27, AND THE POINT OF TERMINATION, WHICH BEARS N65°12'36"E 1986.18' FROM THE WEST 1/4 CORNER OF SAID SECTION 27. THE SIDE LINES OF SAID DESCRIBED RIGHT–OF–WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A TRANSVERSE MERCATOR PROJECTION WITH A CENTRAL MERIDIAN OF W103°53'00". CONTAINS 0.131 ACRES MORE OR LESS.

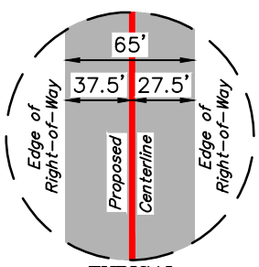
POINT OF BEGINNING BEARS N64°06'54"E 1907.01' FROM THE WEST 1/4 CORNER OF SECTION 27, T24S, R34E, N.M.P.M.

POINT OF TERMINATION BEARS N65°12'36"E 1986.18' FROM THE WEST 1/4 CORNER OF SECTION 27, T24S, R34E, N.M.P.M.

500' 250' 0' 500'

ACREAGE / LENGTH TABLE		
FEET	RODS	ACRES
87.48	5.30	0.131

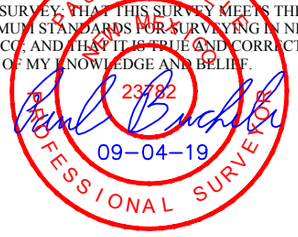
▲ = SECTION CORNERS LOCATED.



TYPICAL RIGHT–OF–WAY DETAIL
NO SCALE

FILE: C-7103

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.



NOTES:
- The maximum grade of existing ground for the proposed access road is ±0.13%.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00"

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

UINTAH ENGINEERING & LAND SURVEYING

N CENTENNIAL RESOURCE PRODUCTION, LLC

ROMEO-JULIET FEDERAL COM AREA CTB
ON QUAIL RANCH, LLC. LANDS IN
SECTION 27, T24S, R34E, N.M.P.M.
REEVES COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C.	08-23-19	SCALE
DRAWN BY	A.G.	09-04-19	1" = 500'

PROPOSED ACCESS ROAD R-O-W

AFMSS

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

PWD Data Report

03/02/2022

APD ID: 10400057754 **Submission Date:** 06/05/2020

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: SHEBA FEDERAL COM **Well Number:** 306H

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 Pits

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 specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: SHEBA FEDERAL COM **Well Number:** 306H

Lined pit Monitor description:

Lined pit Monitor attachment:

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? 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 specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

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

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

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

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

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

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: SHEBA FEDERAL COM **Well Number:** 306H

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? 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 attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

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 - Other

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: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: SHEBA FEDERAL COM **Well Number:** 306H

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:

AFMSS

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

Bond Info Data Report

03/02/2022

APD ID: 10400057754 **Submission Date:** 06/05/2020

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: SHEBA FEDERAL COM **Well Number:** 306H

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

Highlighted data reflects the most recent changes

Show Final Text

Bond Information

Federal/Indian APD: FED

BLM Bond number: NMB001841

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

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
30-025-50268	96434	Red Hills; Bone Spring, North

[4] Property Code	[5] Property Name	[6] Well Number
318028	SHEBA FEDERAL COM	306H

[7] OGRID No.	[8] Operator Name	[9] Elevation
372165	CENTENNIAL RESOURCE PRODUCTION, LLC	3461.7'

[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
H	27	24S	34E		2189	NORTH	1070	EAST	LEA

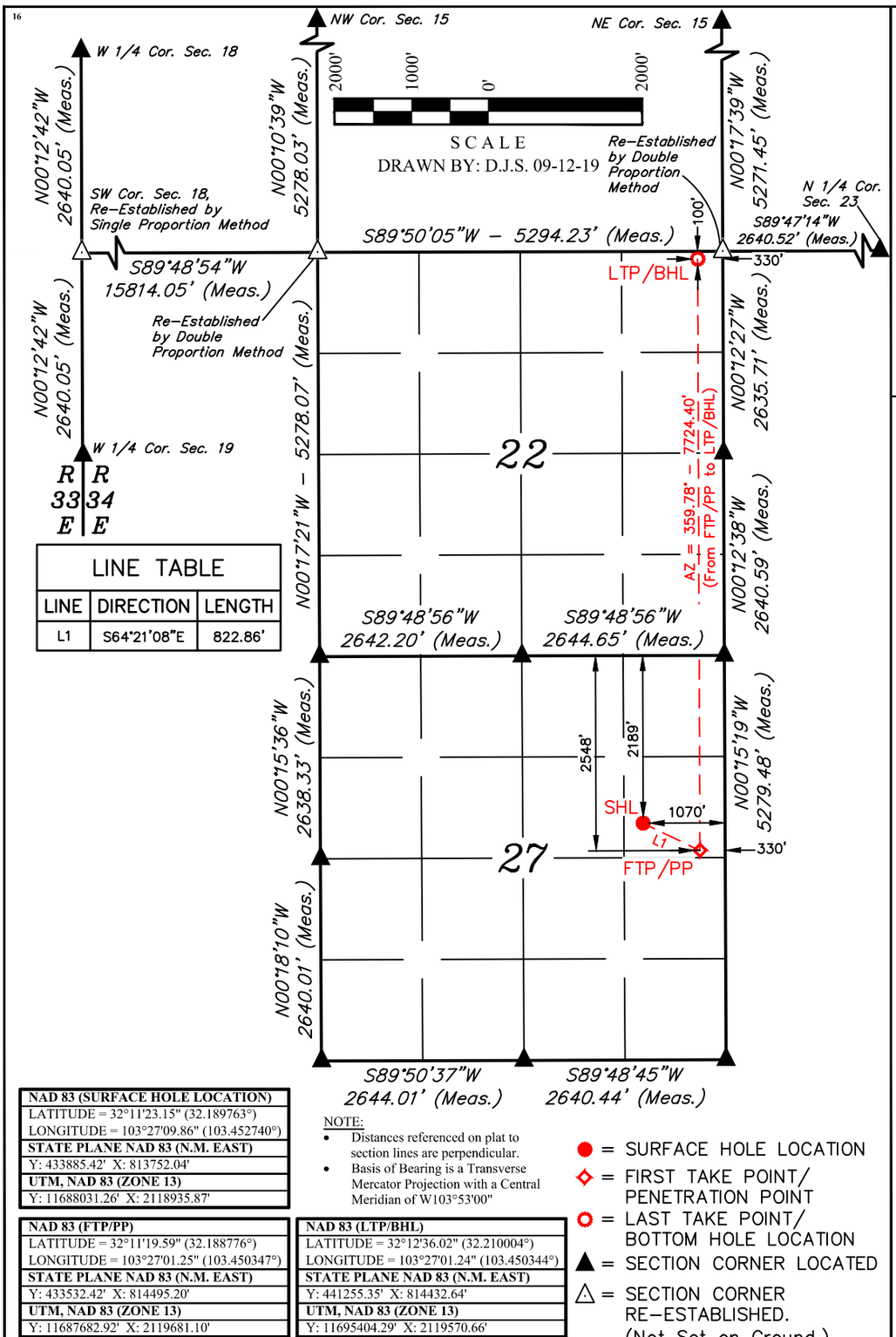
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	22	24S	34E		100	NORTH	330	EAST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
240			

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.

[16]



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S64°21'08"E	822.86'

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°11'23.15" (32.189763°)
LONGITUDE = 103°27'09.86" (103.452740°)
STATE PLANE NAD 83 (N.M. EAST)
Y: 433885.42' X: 813752.04'
UTM, NAD 83 (ZONE 13)
Y: 11688031.26' X: 2118935.87'

NAD 83 (FTP/PP)
LATITUDE = 32°11'19.59" (32.188776°)
LONGITUDE = 103°27'01.25" (103.450347°)
STATE PLANE NAD 83 (N.M. EAST)
Y: 433532.42' X: 814495.20'
UTM, NAD 83 (ZONE 13)
Y: 11687682.92' X: 2119681.10'

NAD 83 (LTP/BHL)
LATITUDE = 32°12'36.02" (32.210004°)
LONGITUDE = 103°27'01.24" (103.450344°)
STATE PLANE NAD 83 (N.M. EAST)
Y: 441255.35' X: 814432.64'
UTM, NAD 83 (ZONE 13)
Y: 11695404.29' X: 2119570.66'

NOTE:
- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearing is a Transverse Mercator Projection with a Central Meridian of W103°53'00"

● = SURFACE HOLE LOCATION
◇ = FIRST TAKE POINT/ PENETRATION POINT
○ = LAST TAKE POINT/ BOTTOM HOLE LOCATION
▲ = SECTION CORNER LOCATED
△ = SECTION CORNER RE-ESTABLISHED. (Not Set on Ground.)

[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

Meghan Twele
Printed Name

meghan.twele@cdevinc.com
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.

August 23, 2019
Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number:

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: Centennial Resource Prod, LLC **OGRID:** 372165 **Date:** 05 / 18 / 2022

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
Sheba Federal Com 305H		H-27-24S-34E	2299FNL&1160FEL	3600 BBL/D	4320 MCF/D	18000 BBL/D
Sheba Federal Com 306H	30-025-50268	H-27-24S-34E	2299FNL&1100FEL	3600 BBL/D	4320 MCF/D	18000 BBL/D

IV. Central Delivery Point Name: SOLOMON CDP [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
Sheba Federal Com 305H		11/05/2022	11/13/2022	12/17/2022	12/31/2022	12/31/2022
Sheba Federal Com 306H	30-025-50268	11/13/2022	11/21/2022	12/17/2022	12/31/2022	12/31/2022

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:	Stewart MacCallum
Printed Name:	Stewart MacCallum
Title:	Director of Marketing
E-mail Address:	Stewart.MacCallum@cdevinc.com
Date:	05/18/2022
Phone:	(720) 499-1458

OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)

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

Centennial Resource Production, LLC (372165)

Natural Gas Management Plan Descriptions

VI. Separation Equipment:

Centennial utilizes a production forecast from our Reservoir Engineering team to appropriately size each permanent, 3-phase separator and heater treater utilized for production operations. Our goal is to maintain 5 minutes of retention time in the test vessel and 20 minutes in the heater treater at peak production rates. The gas produced is routed from the separator to the gas sales line.

VII. Operational Practices:

Drilling

During Centennial's drilling operations it is uncommon for venting or flaring to occur. If flaring is needed due to safety concerns, gas will be routed to a flare and volumes will be estimated.

Flowback

During completion/recompletion flowback operations, after separation flowback begins and as soon as it is technically feasible, Centennial routes gas though a permanent separator and the controlled facility where the gas is either sold or flared through a high-pressure flare if needed.

Production

Per 19.15.27.8.D, Centennial's facilities are designed to minimize waste. Our produced gas will only be vented or flared in an emergency or malfunction situation, except as allowed for normal operations noted in 19.15.27.8.D(2) & (4). All gas that is flared is metered. All gas that may be vented will be estimated.

Performance Standards

Centennial utilizes a production forecast from our Reservoir Engineering team to appropriately size each permanent, 3-phase separator and heater treater utilized for production operations.

All of Centennial's permanent storage tanks associated with production operations which are routed to a flare or control device are equipped with an automatic gauging system.

All of Centennial's flare stacks, both currently installed and for future installation, are:

1) Appropriately sized and designed to ensure proper combustion efficiency.
2) Equipped with an automatic ignitor or continuous pilot.
3) Anchored and located at least 100 feet from the well and storage tanks.

Centennial's field operations and HSE teams have implemented an AVO inspection schedule that adheres to the requirements of 19.15.27.8.E(5).

All of our operations and facilities are designed to minimize waste. We routinely employ the following methods and practices:

- Closed-loop systems
- Enclosed and properly sized tanks

- Vapor recovery units to maximize recovery of low-pressure gas streams and potential unauthorized emissions
- Low-emitting or electric engines whenever practical
- Combustors and flare stacks in the event of a malfunction or emergency
- Routine facility inspections to identify leaking components, functioning control devices, such as flares and combustors, and repair / replacement of malfunctioning components where applicable

Measurement or estimation

Centennial measures or estimates the volumes of natural gas vented, flared and/or beneficially used for all of our drilling, completing and producing wells. We utilize accepted industry standards and methodology which can be independently verified. Annual GOR testing is completed on our wells and will be submitted as required by the OCD. None of our equipment is designed to allow diversion around metering elements except during inspection, maintenance and repair operations.

VIII. Best Management Practices:

Centennial utilizes the following BMPs to minimize venting during active and planned maintenance activities:

- Use a closed-loop process wherever possible during planned maintenance activities, such as blowdowns, liquid removal, and work over operations.
- Employ low-emitting or electric engines for equipment, such as compressors
- Adhere to a strict preventative maintenance program which includes routine facility inspections, identification of component malfunctions, and repairing or replacing components such as hatches, seals, valves, etc. where applicable
- Utilize vapor recovery units (VRU's) to maximize recovery of volumes of low-pressure gas streams and potential unauthorized emissions
- Route low pressure gas and emissions streams to a combustion device to prevent venting where necessary

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 110039

CONDITIONS

Operator: CENTENNIAL RESOURCE PRODUCTION, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 110039
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	6/23/2022
pkautz	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	6/23/2022
pkautz	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	6/23/2022
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	6/23/2022