Form 3160-3
(June 2015)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☐ DRILL ☐ REENTER

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

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

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

8. Lease Name and Well No.

2. Name of Operator

9. API Well No.
30-043-21529

3a. Address	3b. Phone No. *(include area code)*	10. Field and Pool, or Exploratory

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

At surface

At proposed prod. zone

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

14. Distance in miles and direction from nearest town or post office*	12. County or Parish	13. State

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file

21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration

24. Attachments

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

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

25. Signature	Name *(Printed/Typed)*	Date

Title

Approved by *(Signature)*	Name *(Printed/Typed)*	Date

Title	Office

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

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

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 08/12/2025

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: 08/12/2025

Additional Operator Remarks

Location of Well

0. SHL: NENE / 977 FNL / 251 FEL / TWSP: 23N / RANGE: 6W / SECTION: 19 / LAT: 36.215355 / LONG: -107.501281 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 0 FNL / 0 FWL / TWSP: 23N / RANGE: 6W / SECTION: 21 / LAT: 36.21621 / LONG: -107.500106 (TVD: 5604 feet, MD: 6046 feet)

PPP: NWNW / 660 FNL / 100 FWL / TWSP: 23N / RANGE: 6W / SECTION: 20 / LAT: 36.21621 / LONG: -107.500106 (TVD: 5604 feet, MD: 6046 feet)

PPP: NENW / 0 FNL / 0 FWL / TWSP: 23N / RANGE: 6W / SECTION: 21 / LAT: 36.21621 / LONG: -107.500106 (TVD: 5604 feet, MD: 6046 feet)

PPP: SENE / 0 FNL / 0 FWL / TWSP: 23N / RANGE: 6W / SECTION: 21 / LAT: 36.21621 / LONG: -107.500106 (TVD: 5604 feet, MD: 6046 feet)

BHL: NENE / 660 FNL / 100 FEL / TWSP: 23N / RANGE: 6W / SECTION: 21 / LAT: 36.215808 / LONG: -107.465008 (TVD: 5669 feet, MD: 16402 feet)

BLM Point of Contact

Name: CHRISTOPHER P WENMAN
Title: Natural Resource Specialist
Phone: (505) 564-7727
Email: cwenman@blm.gov

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.

Conditions of Approval

Operator:	Coleman Oil and Gas, Inc.
Well Names:	Lybrook Fed Com 23-6-19 EV #001H, EV #002H, GP #001H, GP #002H
Legal Location:	NENE, Sec 19, Twn 23 N, R 06 W, Sandoval County, NM
NEPA Log Number:	DOI-BLM-NM-F010-2025-0036-EA
Inspection Date:	July 6, 2023
Lease Number:	NMNM117564, NMNM112953

The following conditions of approval will apply to Coleman – Lybrook Federal Com 23-6-19 EV #001H Oil and Natural Gas Wells Project, and other associated facilities, unless a particular Surface Managing Agency or private surface owner has supplied to Bureau of Land Management and the operator a contradictory environmental stipulation. The failure of the operator to comply with these requirements may result in an assessment or civil penalties pursuant to 43 CFR 3163.1 or 3163.2.

Disclaimers: BLM's approval of the APD does not relieve the lessee and operator from obtaining any other authorizations that may be required by the BIA, Navajo Tribe, State, or other jurisdictional entities.

Copy of Plans: A complete copy of the APD package, including Surface Use Plan of Operations, Bare Soil Reclamation Plan, Plan of Development (if required), Conditions of Approval, Cultural Resource Record of Review, Cultural Resources Compliance Form (if required), and Project Stipulations (if required) shall be at the project area at all times and available to all persons.

Cultural Resources: Cultural resource protection stipulations are provided, see attached Cultural Record of Review.

Review of NEPA documents: It is the responsibility of the operator to follow all the design features, best management practices, and mitigation measures as contained in the Environmental Assessment DOI-BLM-NM-F010-2025-0036-EA, which contains additional design features and best management practices that must be followed. Copies of the EA, Decision Record, and Finding of No Significant Impact may be obtained from the BLM FFO public room, or online at: EplanningUi (blm.gov).

Best Management Practices (BMPs): Farmington Field Office established environmental Best Management Practices (BMP's) will be followed during construction and reclamation of well site pads, access roads, pipeline ties, facility placement or any other surface disturbing activity associated with this project. Bureau wide standard BMPs are found in the Gold Book, Fourth Edition-Revised 2007. Farmington Field Office BMPs are integrated into the Environmental Assessment, Surface Use Plan of Operations, Bare Soil Reclamation Plan, and COAs.

Construction, Production, Facilities, Reclamation & Maintenance

Construction & Reclamation Notification: The operator or their contractor will contact the Bureau of Land Management, Farmington Field Office Surface and Environmental Protection Staff (505) 564-7600 or by email, at least 48 hours prior to any construction or reclamation on this project.

Production Facilities: design and layout of facilities will be deferred until an onsite with BLM-FFO surface protection staff is conducted to determine the best location. Coleman or their contractor will contact the Bureau of Land Management, Farmington Field Office, Surface, and Environmental Protection Staff (505) 564-7600 to schedule a facility layout onsite.

Staking: The holder shall place slope stakes, culvert location and grade stakes, and other construction control stakes as deemed necessary by the authorized officer to ensure construction in accordance with the plan of development. If stakes are disturbed, they shall be replaced before proceeding with construction.

Weather: No construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support construction equipment. If such equipment creates ruts more than 6 inches deep, the soil shall be deemed too wet.

Stockpile of Soil: The top 6 inches of soil material will be stripped and stockpiled in the construction zones around the pad [construction zones may be restricted or deleted to provide resource avoidance]. The stockpiled soil will be free of brush and tree limbs, trunks, and roots. The stockpiled soil material will be spread on the reclaimed portions of the pad [including the reserve pit, cut and fill slopes] prior to re-seeding. Spreading shall not be done when the ground or topsoil is frozen or wet.

Painting of Equipment: Within 90 days of installation, all above ground structures not subject to safety requirements shall be painted by the Holder to blend with the natural color of the landscape. A reflective material may be used to reduce hazards that may occur when such structures are near roads. Otherwise, the paint use shall be a non-glare, non-reflective, non-chalking color of: Federal 595a-34127 (Juniper Green).

Storage Tanks: All open top permanent production or storage tanks regardless of diameter made of fiberglass, steel, or other material used for the containment of oil, condensate, produced water and or other production waste shall be screened, netted, or otherwise covered to protect migratory birds and other wildlife from access.

Compressors: Compressor units on this well location not equipped with a drip pan for containment of fluids shall be lined with an impervious material at least 8 mils thick and a 12-inch berm. The compressor will be painted to match the well facilities. Any variance to this will

be approved by the Authorized Officer (AO). Noise mitigation may be required at the time of compressor installation.

Culverts: Silt Traps/Bell Holes will be built upstream of all culvert locations.

Driving Surface Area: All activities associated within the construction, operation, maintenance, and abandonment of the well location is limited to areas approved in the APD or ROW permit. During the production of the well, vehicular traffic is limited to the daily driving surface area established during interim reclamation construction operations. This area typically forms a keyhole or teardrop driving surface from which all production facilities may be serviced or inspected. A v-type ditch will be constructed on the outside of the driving surface to further define the driving surface and to deter vehicular traffic from entering onto the interim reclamation areas.

Contouring of Cut and Fill Slopes: The interim cut and fill slope grade shall be as close to the original contour as possible. To obtain this ratio, pits and slopes shall be back sloped into the pad during interim reclamation. Only subsurface soil and material shall be utilized in the contouring of the cut and fill slopes. Under no circumstances shall topsoil be utilized as substrate material for contouring of cut and fill slopes.

Maintenance: In order to perform subsequent well operations, right-of-way (ROW) operations, or install new/additional equipment, it may be necessary to drive, park, and operate on restored, interim vegetation within the previously disturbed area. This is generally acceptable provided damage is promptly repaired and reclaimed following use. Where vehicular travel has occurred as a "convenience" and interim reclamation/vegetation has been compromised, immediate remediation of the affected areas is required. Additionally, where erosion has occurred and compromised the reclamation of the well location, the affected area must be promptly remediated so that future erosion is prevented, and the landform is stabilized.

Layflat Lines: Layflat lines used for development of the wells may be on the ground for a maximum of 6 months and shall be retrieved within 30 days immediately following completion operations. If the layflat lines are needed for longer than 6 months or cannot be retrieved within 30 days of completion operations ending, a Sundry NOI shall be submitted to the BLM FFO for review and decision that includes a rationale for the time extension.

"Hotwork" and Construction Affecting Fire Safety: The holder or its contractors will notify the BLM of any fires and comply with all rules and regulations administered by the BLM concerning the use, prevention and suppression of fires on federal lands, including any fire prevention orders that may be in effect at the time of the permitted activity. The holder or its contractors may be held liable for the cost of fire suppression, stabilization and rehabilitation. In the event of a fire, personal safety will be the first priority of the holder or its contractors.

The holder or its contractors shall:

1. Operate all internal and external combustion engines (including off-highway vehicles, chainsaws, generators, heavy equipment, etc.) with a qualified spark arrester. Qualified spark arresters are maintained and not modified and meet the Society of Automotive Engineers (SAE) Recommended Practices J335 or J350. Refer to 43 CFR §8343.1.
    a. *Refueling of any combustible engine equipment must be minimum of 3 meters away from any ignition source (open flame, smoking, etc.).*
2. Maintain and clean all equipment regularly to remove flammable debris buildup and prevent fluid leaks that can lead to ignitions.
3. Carry at least one shovel or wildland fire hand tool (combi, Pulaski, McLeod) per person working, minimum 5 gallons of water, and a fire extinguisher rated at a minimum as ABC - 10 pound on each piece of equipment and each vehicle.
4. When conducting "hotwork" such as, but not limited to welding, grinding, cutting, spark-producing work with metal, work that creates hot material or slag; choose an area large enough to contain all hot material that is naturally free of all flammable vegetation or remove the flammable vegetation in a manner compliant with the permitted activity. If adequate clearance cannot be made, wet an area large enough to contain all hot material prior to the activity and periodically throughout the activity to reduce the risk of wildfire ignition. Regardless of clearance, maintain readiness to respond to an ignition at all times. In addition, keep one hand tool per person and at least one fire extinguisher ready, minimum, as specified earlier (#3) during this activity.
5. Keep apprised of current and forecasted weather at https://www.weather.gov/abq/forecasts-fireweather-links and fire conditions at www.wfas.net and take additional fire precautions when fire danger is rated High or greater. Red Flag Warnings are issued by the National Weather Service when fire conditions are most dangerous, and ignitions escape control quickly. Extra precautions are required during these warnings such as additional water, designate a fire watch/patrol and tools. If work is being conducted in an area that is not clear of vegetation within 50 feet of work area; then, when fire danger is rated High or greater and 1. There is a predicted Red Flag warning for your area or 2. If winds are predicted to be greater than 10 mph, stop all hotwork activities for the day at 10 am.
6. In the event of an ignition, initiate fire suppression actions in the work area to prevent fire spread to or on federally administered lands. If a fire spreads beyond the capability of workers with the stipulated tools, all will cease fire suppression action and leave the area immediately via pre-identified escape routes.
7. Call **911** or the **Taos Interagency Fire Dispatch Center (575-758-6208)** immediately of the location and status of any fire.

AND

Notify the respective BLM field office for which the permit or contract was issued immediately of the incident.
Farmington Field Office at 505-564-7600

Noxious Weeds

Inventory the proposed site for the presence of noxious and invasive weeds. Noxious weeds are those listed on the New Mexico Noxious Weed List and USDA's Federal Noxious Weed List. The New Mexico Noxious Weed List or USDA's Noxious Weed List can be updated at any time and should be regularly check for any changes. Invasive species may or may not be listed as a noxious weed but have been identified to likely cause economic or environmental harm or harm to human health. The following noxious weeds have been identified as occurring on lands within the boundaries of the Farmington Field Office (FFO). There are numerous invasive species on the FFO such as Russian thistle (*Salsola spp.)* and field bindweed (*Convolvulus arvensis*).

Russian Knapweed (*Centaurea repens*)	Musk Thistle (*Carduss nutans*)
Bull Thistle (*Cirsium vulgare*)	Canada Thistle (*Cirsium arvense*)
Scotch Thistle (*Onopordum acanthium)*	Hoary Cress (*Cardaria draba*)
Perennial Pepperweed (*Lepdium latiofolfium*)	Halogeton (*Halogeton glomeratus*)
Spotted Knapweed (*Centaurea maculosa*)	Dalmation Toadflax (*Linaria genistifolia*)
Yellow Toadflax (*Linaria vulgaris*)	Camelthorn (*Alhagi pseudalhagi*)
African Rue (*Penganum harmala*)	Salt Cedar (*Tamarix spp*.)
Diffuse Knapweed (*Centaurea diffusa*)	Leafy Spurge (*Euphorbia esula*)

a. Identified weeds will be treated prior to new surface disturbance if determined by the FFO Noxious Weed Coordinator. A Pesticide Use Proposal (PUP) must be submitted to and approved by the FFO Noxious Weed Coordinator prior to application of pesticide. The FFO Noxious Weeds Coordinator (505-564-7600) can provide assistance in the development of the PUP.

b. Vehicles and equipment should be inspected and cleaned prior to coming onto the work site. This is especially important on vehicles from out of state or if coming from a weed-infested site.

c. Fill dirt or gravel may be needed for excavation, road construction/repair, or for spill remediation. If fill dirt or gravel will be required, the source shall be noxious weed free and approved by the FFO Noxious Weed Coordinator.

d. The site shall be monitored for the life of the project for the presence of noxious weeds (includes maintenance and construction activities). If weeds are found the FFO Coordinator shall be notified at (505) 564-7600 and provided with a Weed Management Plan and if necessary, a Pesticide Use Proposal (PUP). The FFO Coordinator can provide assistance developing the Weed Management Plan and/or the Pesticide Use Proposal.

e. Only pesticides authorized for use on BLM lands would be used and applied by a licensed pesticide applicator. The use of pesticides would comply with federal and

state laws and used only in accordance with their registered use and limitations. Coleman's weed-control contractor would contact the BLM-FFO prior to using these chemicals.

f. Noxious/invasive weed treatments must be reported to the FFO Noxious Weed Coordinator. A Pesticide Use Report (PUR) is required to report any mechanical, chemical, biological, or cultural treatments used to eradicate, and/or control noxious or invasive species. Reporting will be required quarterly and annually or per request from the FFO Noxious Weed Coordinator.

Bare ground vegetation trim-out: If bare ground vegetation treatment (trim-out) is desired around facility structures, the operator will submit a bare ground/trim-out design included in their Surface Use Plan of Operations (SUPO). The design will address vegetation safety concerns of the operator and BLM while minimizing impacts to interim reclamation efforts. The design must include what structures to be treated and buffer distances of trim-out. Pesticide use for vegetation control around anchor structures is not approved. If pesticides are used for bare ground trim-out, the trim-out will not exceed three feet from the edge of any eligible permanent structure (i.e., well heads, fences, tanks). Additional distance/areas may be requested and must be approved by the FFO authorized officer. The additional information below must also be provided to the FFO:

a. Pesticide use for trim out will require a Pesticide Use Proposal (PUP). A PUP is required ***prior*** to any treatment and must be approved by the FFO Noxious Weed Coordinator. Only pesticides authorized for use on BLM lands would be used and applied by a licensed pesticide applicator. The use of pesticides would comply with federal and state laws and used only in accordance with their registered use and limitations. Coleman's weed-control contractor would contact the BLM-FFO prior to using these chemicals and provide Pesticide Use Reports (PURs) post treatment.

b. A Pesticide Use Report (PUR), or a Biological Use Report (BUR) is required to report any chemical, or biological treatments used to eradicate, or control vegetation on site. Reporting will be required quarterly and annually or per request from the FFO Noxious Weed Coordinator.

Paleontology

Desktop Review Required: A desktop review by a contracted paleontologist will be required prior to any ground disturbing activity, and pending results of the desktop review, a contracted paleontologist may be required to monitor all ground disturbing activities. For questions contact the BLM FFO paleontological program coordinator at (505) 564-7712. If the paleo coordinator can't be reached contact the Surface and Environmental Protection staff for next steps.

Accidental Discovery: Any paleontological resource discovered by the Operator, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written

authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the AO to determine appropriate actions to prevent the loss of significant scientific values. The Holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the AO after consulting with the Holder.

Visual Resources

Dark Sky COAs need to be applied to existing lighting, which is not dark sky friendly and to any additional lights added as part of pad expansion. All permanent lighting will use full cutoff luminaires, which are fully shielded (i.e., not emitting direct or indirect light above an imaginary horizontal plane passing through the lowest part of the light source). All permanent lighting will be pointed straight down at the ground in order to prevent light spill to the sides. All permanent lighting will be 4000° Kelvin or less with 3000° Kelvin preferred. Warmer light colors are less noticeable by humans and cause less impact to wildlife. All permanent lighting will be controlled by a switch and/or timer which allows the lights to be turned on when workers are on location during dark periods but will keep the lights off the majority of the time.

Wildlife and T&E Species

Hazards: Wildlife hazards associated with the proposed project would be fenced, covered, and/or contained in storage tanks, as necessary. Once drilling and completion activities are complete, any open water that could be harmful to birds and wildlife. must be covered, screened, or netted to prevent entry.

Threatened, Endangered or Sensitive Species: If, in operations the operator/holder discovers any Threatened, Endangered, or Sensitive species, work in the vicinity of the discovery will be suspended and the discovery promptly reported to the BLM-FFO T&E specialist at (505) 564-7600. The BLM-FFO will then specify what action is to be taken. Failure to notify the BLM-FFO about a discovery may result in civil or criminal penalties in accordance with The Endangered Species Act (as amended).

Migratory Bird Survey: A migratory bird nest survey conducted by a BLM FFO authorized biologist is required prior to any ground-disturbing activity between 5/15 and 7/31.

Pinyon Jay Survey: A pinyon jay nest survey conducted by a BLM FFO authorized biologist is required prior to any ground-disturbing activity between 4/1 and 7/31.

Nesting: If a bird nest containing eggs or young is encountered in the path of construction the operator will cease construction and consult with BLM to determine appropriate actions.

Soil, Air, Water

Land Farming: No excavation, remediation or closure activities will be authorized without prior approval, on any federal or Indian mineral estate, federal surface, or federal ROW. A Sundry

Notice (DOI, BLM Form 3160-5) must be submitted with an explanation of the remediation or closure plan for on-lease actions.

Emission Control Standard: Compressor engines 300 horsepower or less used during well production must be rated by the manufacturer as emitting NOx at 2 grams per horsepower hour or less to comply with the New Mexico Environmental Department, Air Quality Bureau's guidance.

Waste Disposal: All fluids (i.e., scrubber cleaners) used during washing of production equipment, including compressors, will be properly disposed of to avoid ground contamination, or hazard to livestock or wildlife.

Cultural Resources

Non-Permitted Disturbance: Construction, construction maintenance or any other activity outside the areas permitted by the APD will require additional approval and may require a new cultural survey and clearance.

Employee Education: All employees of the project, including the Project Sponsor and its contractors and sub-contractors will be informed that cultural sites are to be avoided by all personnel, personal vehicles, and company equipment. They will also be notified that it is illegal to collect, damage, or disturb cultural resources, and that such activities are punishable by criminal and or administrative penalties under the provisions of the Archaeological Resources Protection Act (16 U.S.C. 470aa-mm) when on federal land and the New Mexico Cultural Properties Act NMSA 1978 when on state land.

Discovery of Cultural Resources during Monitoring: If monitoring confirms the presence of previously unidentified historic or prehistoric cultural resources, then work in the vicinity of the discovery will be suspended and the monitor will promptly report the discovery to the BLM Field Manager. BLM will then specify what action is to be taken. If there is an approved "discovery plan" in place for the project, then the plan will be executed. In the absence of an approved plan, the BLM will evaluate the significance of the discovery in accordance with 36 CFR Section 800.13, in consultation with the appropriate State or Tribal Historic Preservation Officer(s) and Indian tribe(s) that might attach religious and cultural significance to the affected property, or in accordance with an approved program alternative. Minor recordation, stabilization, or data recovery may be performed by BLM or a third party acting on its behalf, such as a permitted cultural resources consultant. If warranted, more extensive archaeological or alternative mitigation, likely implemented by a permitted cultural resources consultant, may be required of the operator/holder prior to allowing the project to proceed. Further damage to significant cultural resources will not be allowed until any mitigations determined appropriate through the agency's Section 106 consultation are completed.

Discovery of Cultural Resources in the Absence of Monitoring: If, in its operations, operator/holder discovers any previously unidentified historic or prehistoric cultural resources,

then work in the vicinity of the discovery the operator will suspend work, and the discovery will be promptly reported to BLM Field Manager. The same procedures to remedy the discovery in above section will be adhered to. Failure to notify the BLM about a discovery may result in civil or criminal penalties in accordance with the Archeological Resources Protection Act (ARPA) of 1979, as amended, the Native American Graves Protection and Repatriation Act (NAGPRA) of 1990, as amended, and other applicable laws.

Damage to Sites: If, in its operations, operator/holder damages, or is found to have damaged any previously documented or undocumented historic or prehistoric cultural resources, excluding "discoveries" as noted above, the operator/holder agrees at his/her expense to have a permitted cultural resources consultant prepare a BLM approved damage assessment and/or data recovery plan. The operator/holder agrees at his/her expense to implement a mitigation that the agency finds appropriate given the significance of the site, which the agency determines in consultation with the appropriate State or Tribal Historic Preservation Officer(s) and Indian tribe(s) that might attach religious and cultural significance to the affected property. This mitigation may entail execution of the data recovery plan by a permitted cultural resource consultant and/or alternative mitigation. Damage to cultural resources may result in civil or criminal penalties in accordance with the Archeological Resources Protection Act (ARPA) of 1979, as amended, the Native American Graves Protection and Repatriation Act (NAGRPA) of 1990, as amended, and other applicable laws.

See below for additional cultural stipulations.

BLM Report Number: 2024(III)002F
USGS Map: Lybrook, NM
Activity Code: 1310
NMCRIS No: 154820

CULTURAL RESOURCE RECORD OF REVIEW

BUREAU OF LAND MANAGEMENT
FARMINGTON FIELD OFFICE

1. Description of Report/Project:

Project Name: A 19 2306 Well Pad Project
Project Sponsor: Walsh Engineering and Production Corp. for JMJ Ventures.
Arch. Firm & Report No.: Adkins Consulting, Inc.; Adkins Report No. ACI(F)106.
Location: T23N R6W Sections 18, 19, & 20.

Well Footages: See plats
Split Estate: No
Project Dimensions: 500 ft x 500 ft – irregular shaped well pad (600 ft x 600 ft w/ 50 ft construction zone).
268 ft x 40 ft – access road.
4,986 ft x 40 ft – pipeline.
225 ft x 222 ft – irregularly shaped TUA
320 ft x 40 ft – Layflat
150 ft x 20 ft – (3X) pullouts

Sites Located: LA79046/NM-01-36766 (NRHP: Eligible; Update; Avoided; No Further Work).
LA79049/NM-01-36783 (NRHP: Eligible; Update; Avoided; No Further Work).
LA204209/NM-01-49567 (NRHP: Not Eligible; Avoided; No Further Work).
LA204210/NM-01-49568 (NRHP: Not Determined; Avoided).
LA204211/NM-210-49569 (NRHP: Eligible; Avoided).
LA204212/NM-210-49570 (NRHP: Not Determined; Avoided).

Determination: No Effect to Historic Properties.

2. Field Check: none.
3. Cultural ACEC: No.
4. Sensitive Cultural Area: No.
5. Recommendation: *PROCEED WITH ACTION:* X *STIPULATIONS ATTACHED*: _X_
6. Reviewer /Archaeologist: Kim Adams **Date**: 4/8/2024

Report Summary	BLM	Other	Total
Acres Inventoried	43.02	0.00	43.02
Sites Recorded	4	0	4
Prev. Recorded Sites	2	0	2
Sites Avoided	6	0	6
Sites Treated	0	0	0

Discovery of Cultural Resources in the Presence or Absence of Monitoring: If any previously unidentified historic or prehistoric cultural resources are discovered during construction or project operations, work in the vicinity of the discovery will be suspended and the discovery will promptly

be reported to the BLM Field Manager.

Note: If there are questions about these stipulations, contact Kim Adams (BLM) at 505.564.7683 or kadams@blm.gov.

CULTURAL RESOURCE STIPULATIONS
Farmington Field Office
BLM Report Number: 2024(III)002F

Project Name: A 19 2306 Well Pad Project
Project Sponsor: Walsh Engineering and Production Corp. for JMJ Ventures.

1. SITE PROTECTION AND EMPLOYEE EDUCATION:
All employees of the project, including the Project Sponsor and its contractors and sub-contractors will be informed that cultural sites are to be avoided by all personnel, personal vehicles and company equipment. They will also be notified that it is illegal to collect, damage, or disturb cultural resources, and that such activities are punishable by criminal and or administrative penalties under the provisions of the Archaeological Resources Protection Act (16 U.S.C. 470aa-mm) when on federal land and the New Mexico Cultural Properties Act NMSA 1978 when on state land.

2. ARCHAEOLOGICAL MONITORING IS REQUIRED:
A copy of these stipulations will be supplied to the archeological monitor at least two working days prior to the start of construction activities. No construction activities, including vegetation removal, may begin before the arrival of the archaeological monitor.
The monitor will:

- Ensure that the site protection barriers are located as indicated on the attached maps in the vicinity of LA204210, & LA204212.
- Ensure a wire and t post barrier is erected as indicated on the attached map in the vicinity of LA204211.
- Inform BLM-FFO archaeologists that monitoring will be occurring within 24 hours of the scheduled monitoring.
- Observe all construction activities within 100'of LA204210. LA204211, & LA204212.
- Submit a report of the monitoring activities within 30 days of completion of monitoring unless other arrangements are made with the BLM. These stipulations must be attached to the report.

3. SITE PROTECTION BARRIER:

- The temporary site protection barriers will be erected prior to the start of construction. The barriers will consist of upright wooden survey lath spaced no more than 10 feet apart and marked with blue flagging or blue paint. The barriers will remain in place through reclamation and reseeding and shall be promptly removed after reclamation.
- The barriers will be placed as indicated on the attached map.
- There will be no surface-disturbing activities or vehicle traffic past the barriers.
- The Wire and T Post Barrier will also be erected prior to the start of construction. This barrier will also be marked with blue flagging or blue paint and **will remain in place**

until the well pad is plugged and abandoned. This barrier will be maintained throughout the lifespan of the well pad.

Note: If there are questions about these stipulations, contact Kim Adams (BLM) at 505.564.7683 or kadams@blm.gov.

For Official Use Only: Disclosure of site locations prohibited (43 CFR 7.18)
CULTURAL RESOURCE STIPULATIONS
Farmington Field Office
BLM Report Number: 2024(III)002F

Project Name: A 19 2306 Well Pad Project
Project Sponsor: Walsh Engineering and Production Corp. for JMJ Ventures.
MONITOR ZONE =  TEMPORARY FENCING =

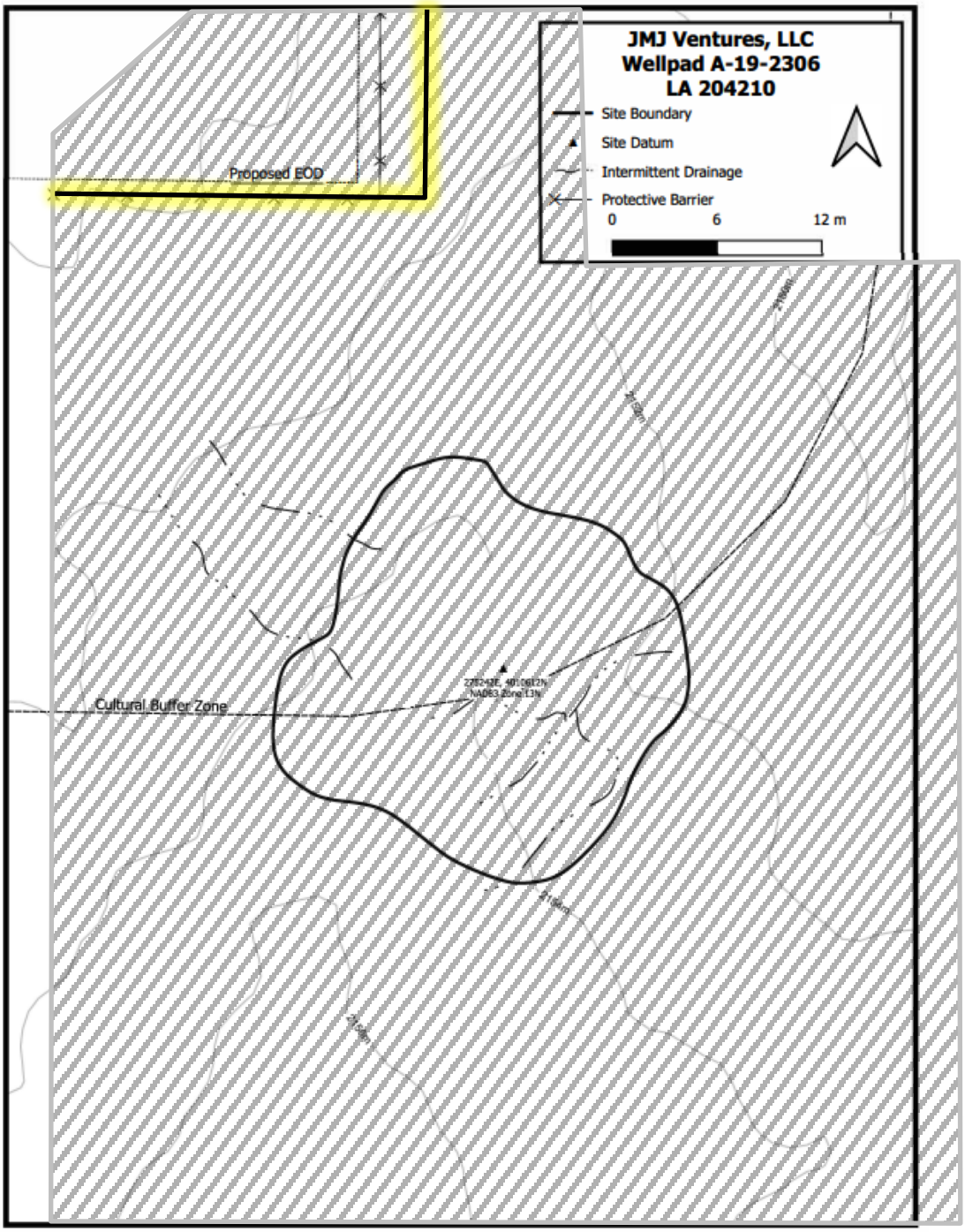


Figure 14. Site map, LA 204210

For Official Use Only: Disclosure of site locations prohibited (43 CFR 7.18)

CULTURAL RESOURCE STIPULATIONS
Farmington Field Office
BLM Report Number: 2024(III)002F

Project Name: A 19 2306 Well Pad Project

Approval Date: 08/12/2025

Project Sponsor: Walsh Engineering and Production Corp. for JMJ Ventures.

T POST and WIRE FENCING =

MONITOR ZONE =

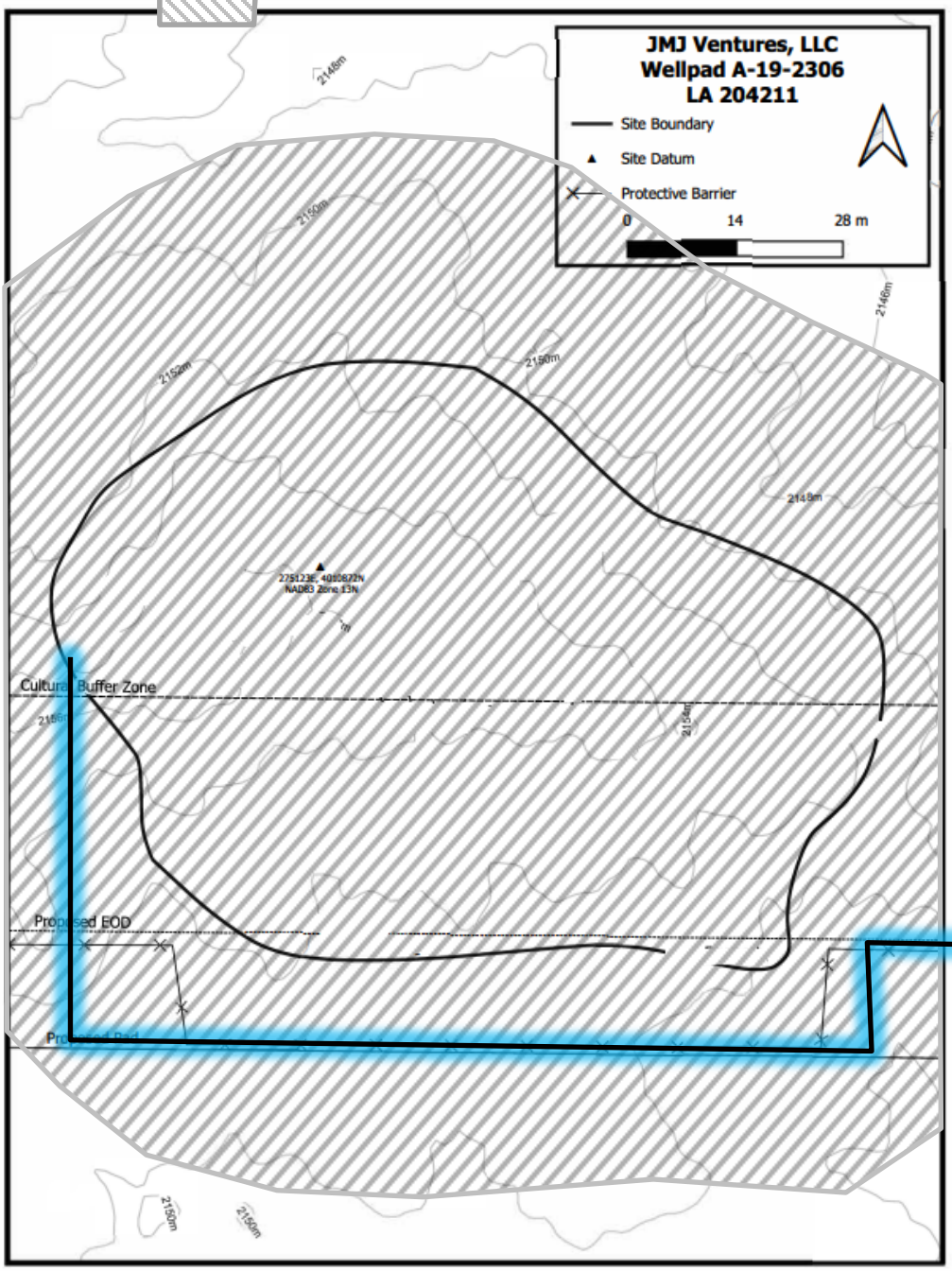


Figure 30. Site map, LA 204211

For Official Use Only: Disclosure of site locations prohibited (43 CFR 7.18)

CULTURAL RESOURCE STIPULATIONS

Farmington Field Office

BLM Report Number: 2024(III)002F

Approval Date: 08/12/2025

Project Name: A 19 2306 Well Pad Project
Project Sponsor: Walsh Engineering and Production Corp. for JMJ Ventures.
MONITOR ZONE = TEMPORARY FENCING =

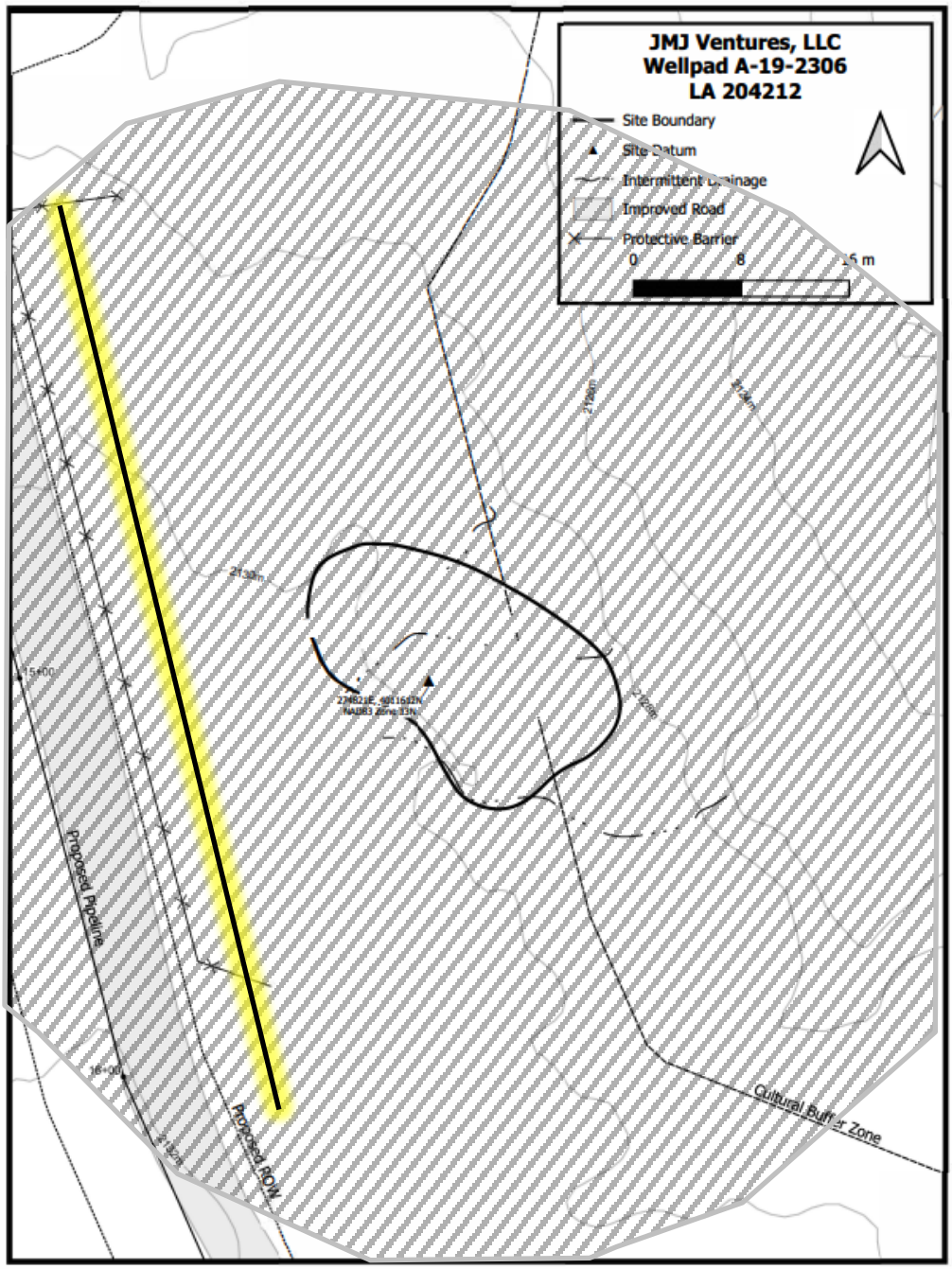


Figure 34. Site map, LA 204212

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Farmington District Office
6251 College Blvd, Suite A
Farmington, New Mexico 87402

In Reply Refer To:
3162.3-1(NMF0110)

* COLEMAN OIL & GAS INCORPORATED

#001H LYBOOK FED COM 23-6-19 GP

Lease: NMNM112953
Agreement: TBD
SH: NE¼NE¼ Section 19, T. 23 N., R. 6 W.
Sandoval County, New Mexico
BH: NE¼NE¼ Section 21, T.23 N., R. 6 W.
Sandoval County, New Mexico
***Above Data Required on Well Sign**

GENERAL REQUIREMENTS FOR OIL AND GAS OPERATIONS ON FEDERAL AND INDIAN LEASES

The following special requirements apply and are effective when **checked**:

A. ☒ Note all surface/drilling conditions of approval attached.

B. ☒ The required wait on cement (WOC) time will be a minimum of 500 psi compressive strength at 60 degrees. Blowout preventor (BOP) nipple-up operations may then be initiated

C. ☒ Test all casing strings below the conductor casing to .22 psi/ft. of casing string length or 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield (burst) for a minimum of 30 minutes. If pressure declines more than 10 percent in 30 minutes, corrective action shall be taken.

D. ☒ Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the Bureau of Land Management, New Mexico State Office, Reservoir Management Group, 301 Dinosaur Trail, Santa Fe, New Mexico 87508.
The effective date of the agreement must be **prior** to any sales.

E. ☐ The use of co-flex hose is authorized contingent upon the following:
1. From the BOP to the choke manifold: the co-flex hose must be hobbled on both ends and saddle to prevent whip.
2. From the choke manifold to the discharge tank: the co-flex hoses must be as straight as practical, hobbled on both ends and anchored to prevent whip.
3. The co-flex hose pressure rating must be at least commensurate with approved BOPE.

Approval Date: 08/12/2025

I. GENERAL

A. Full compliance with all applicable laws and regulations, with the approved Permit to drill, and with the approved Surface Use and Operations Plan is required. Lessees and/or operators are fully accountable for the actions of their contractors and subcontractors. Failure to comply with these requirements and the filing of required reports will result in strict enforcement pursuant to 43 CFR 3163.1 or 3163.2.

B. Each well shall have a well sign in legible condition from spud date to final abandonment. The sign should show the operator's name, lease serial number, or unit name, well number, location of the well, and whether lease is Tribal or Allotted, (See 43 CFR 3162.6(b)).

C. A complete copy of the approved Application for Permit to Drill, along with any conditions of approval, shall be available to authorized personnel at the drill site whenever active drilling operations are under way.

D. For Wildcat wells only, a drilling operations progress report is to be submitted, to the BLM-Field Office, weekly from the spud date until the well is completed and the Well Completion Report is filed. The report should be on 8-1/2 x 11 inch paper, and each page should identify the well by; operator's name, well number, location and lease number.

E. As soon as practical, notice is required of all blowouts, fires and accidents involving life-threatening injuries or loss of life. (See NTL-3A).

F. BOP equipment (except the annular preventer) shall be tested utilizing a test plug to full working pressure for 10 minutes. No bleed-off of pressure is acceptable. (See 43 CFR 3172.6(b)(9)(ii)).

G. The operator shall have sufficient weighting materials and lost circulation materials on location in the event of a pressure kick or in the event of lost circulation. (See 43 CFR 3172.8(a)).

H. The flare line(s) discharge shall be located not less than 100 feet from the well head, having straight lines unless turns are targeted with running tees, and shall be positioned downwind of the prevailing wind direction and shall be anchored. The flare system shall have an effective method for ignition. Where noncombustible gas is likely or expected to be vented, the system shall be provided supplemental fuel for ignition and to maintain a continuous flare. (See 43 CFR 3172.8(b)(7)).

I. Prior approval by the BLM-Authorized Office (Drilling and Production Section) is required for variance from the approved drilling program and before commencing plugging operations, plug back work, casing repair work, corrective cementing operations, or suspending drilling operations indefinitely. Emergency approval may be obtained orally, but such approval is contingent upon filing of a Notice of Intent sundry within three business days. **Any changes to the approved plan or any questions regarding drilling operations should be directed to BLM during regular business hours at 505-564-7600. Emergency program changes after hours should be directed to Virgil Lucero at 505-793-1836.**

J. The Inspection and Enforcement Section (I&E), phone number (505-564-7750) is to be notified at least 24 hours in advance of BOP test, spudding, cementing, or plugging operations so that a BLM representative may witness the operations.

K. From the time drilling operations are initiated and until drilling operations are completed, a member of the drilling crew or the tool pusher shall maintain rig surveillance at all times, unless the well is secured with blowout preventers or cement plugs.

L. If for any reason, drilling operations are suspended for more than 90 days, a written notice must be provided to this office outlining your plans for this well.

M. **Commingling**: No production (oil, gas, and water) from the subject well should start until Sundry Notices (if necessary) granting variances from applicable regulations as related to commingling and off-lease measurement are approved by this office. (See 43 CFR 3173.14)

II. REPORTING REQUIREMENTS

A. For reporting purposes, all well Sundry notices, well completion and other well actions shall be referenced by the appropriate lease, communitization agreement and/or unit agreement numbers.

B. The following reports shall be filed with the BLM-Authorized Officer online through AFMSS 2 within 30 days after the work is completed.

1. Provide complete information concerning.

   a. Setting of each string of casing. Show size and depth of hole, grade and weight of casing, depth set, depth of all cementing tools that are used, amount (in cubic feet) and types of cement used, whether cement circulated to surface and all cement tops in the casing annulus, casing test method and results, and the date work was done. Show spud date on first report submitted.

   b. Intervals tested, perforated (include size, number and location of perforations), acidized, or fractured; and results obtained. Provide date work was done on well completion report and completion sundry notice.

   c. Subsequent Report of Abandonment, show the way the well was plugged, including depths where casing was cut and pulled, intervals (by depths) where cement plugs were replaced, and dates of the operations.

2. Well Completion Report will be submitted with 30 days after well has been completed.

   a. Initial Bottom Hole Pressure (BHP) for the producing formations. Show the BHP on the completion report. The pressure may be: 1) measured with a bottom hole bomb, or; 2) calculated based on shut in surface pressures (minimum seven day buildup) and fluid level shot.

3. Submit a cement evaluation log if cement is not circulated to surface.

C. Production Startup Notification is required no later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site or resumes production in the case of a well which has been off production for more than 90 days. The operator shall notify the Authorized Officer by letter or Sundry Notice, Form 3160-5, or orally to be followed by a letter or Sundry Notice, of the date on which such production has begun or resumed. CFR 43 3162.4-1(c).

III. DRILLER'S LOG

The following shall be entered in the daily driller's log: 1) Blowout preventer pressures tests, including test pressures and results, 2) Blowout preventer tests for proper functioning, 3) Blowout prevention drills conducted, 4) Casing run, including size, grade, weight, and depth set, 5) How pipe was cemented, including amount of cement, type, whether cement circulated to surface, location of cementing tools, etc., 6) Waiting on cement time for each casing string, 7) Casing pressure tests after cementing, including test pressure and results, and 8) Estimated amounts of oil and gas recovered and/or produced during drill stem test.

IV. GAS FLARING

Gas produced from this well may not be vented or flared beyond an initial, authorized test period of * Days, 20 MMCF following its (completion)(recompletion), or flowback has been routed to the production separator, whichever first occurs, without the prior, written approval of the authorized officer in accordance with 43 CFR 3179.81. Should gas be vented or flared without approval beyond the test period authorized above, you may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted. You shall be required to compensate the lessor for the portion of the gas vented or flared without approval which is determined to have been avoidably lost.

*30 days, unless a longer test period is specifically approved by the authorized officer. The 30-day period will commence upon the beginning of flowback following completion or recompletion.

V. SAFETY

A. All rig heating stoves are to be of the explosion-proof type.

B. Rig safety lines are to be installed.

C. Hard hats and other Personal Protective Equipment (PPE) must be utilized.

VI. CHANGE OF PLANS OR ABANDONMENT

A. Any changes of plans required to mitigate unanticipated conditions encountered during drilling operations, will require approval as set forth in Section 1.I.

B. If the well is dry, it is to be plugged in accordance with 43 CFR 3162.3-4, approval of the proposed plugging program is required as set forth in Section 1.I. The report should show the total depth reached, the reason for plugging, and the proposed intervals, by depths, where cement plugs are to be placed, type of plugging mud, etc. A Subsequent Report of Abandonment is required as set forth in Section II.B.1c.

C. Unless a well has been properly cased and cemented, or properly plugged, the drilling rig must not be moved from the drill site without prior approval from the BLM-Authorized Officer.

VII. PHONE NUMBERS

A. For BOPE tests, cementing, and plugging operations the phone number is 505-564-7750 and must be called 24 hours in advance in order that a BLM representative may witness the operations.

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

Operator Certification Data Report

08/12/2025

Operator

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

NAME: ARLEEN SMITH **Signed on:** 12/02/2024

Title: Regulatory Specialist

Street Address: 332 RD 3100

City: AZTEC **State:** NM **Zip:** 87410

Phone: (505)327-4892

Email address: ARLEEN@WALSHENG.NET

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

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

Application Data
08/12/2025

APD ID: 10400094254
Submission Date: 12/02/2024
Operator Name: COLEMAN OIL & GAS INCORPORATED
Well Name: LYBROOK FED COM 23-6-19 GP
Well Number: 001H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes
Show Final Text

Section 1 - General

APD ID: 10400094254
Tie to previous NOS? Y
Submission Date: 12/02/2024
BLM Office: Farmington
User: ARLEEN SMITH
Title: Regulatory Specialist
Federal/Indian APD: FED
Is the first lease penetrated for production Federal or Indian? FED
Lease number: NMNM112953
Lease Acres:
Surface access agreement in place?
Allotted?
Reservation:
Agreement in place? NO
Federal or Indian agreement:
Agreement number:
Agreement name:
Keep application confidential? Y
Permitting Agent? YES
APD Operator: COLEMAN OIL & GAS INCORPORATED
Operator letter of

Operator Info

Operator Organization Name: COLEMAN OIL & GAS INCORPORATED
Operator Address: P.O. BOX 3337
Zip: 87499
Operator PO Box: P.O. BOX 3337
Operator City: FARMINGTON
State: NM
Operator Phone: (505)327-0356
Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? EXISTING
Master Development Plan name: Lybrook Fed Com 23-6-19
Well in Master SUPO?
Master SUPO name:
Well in Master Drilling Plan?
Master Drilling Plan name:
Well Name: LYBROOK FED COM 23-6-19 GP
Well Number: 001H
Well API Number:
Field/Pool or Exploratory? Field and Pool
Field Name: BASIN MANCOS
Pool Name:

Operator Name: COLEMAN OIL & GAS INCORPORATED

Well Name: LYBROOK FED COM 23-6-19 GP **Well Number:** 001H

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?** Y **New surface disturbance?** Y

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: Lybrook Fed Com 23-6-19 GP, Lybrook Fed Com 23-6-19 EV **Number:** 002H, 001H, 002H

Well Class: HORIZONTAL

Number of Legs: 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: EXPLORATORY (WILDCAT)

Describe sub-type:

Distance to town: 42 Miles **Distance to nearest well:** 606 FT **Distance to lease line:** 100 FT

Reservoir well spacing assigned acres Measurement: 640 Acres

Well plat: LYBROOK_FED_COM_23_6_19_GP_001H_Plat_20241125111210.pdf

Well work start Date: 04/15/2024 **Duration:** 45 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 **Vertical Datum:** NAVD88

Survey number: 15703 **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
SHL Leg #1	977	FNL	251	FEL	23N	6W	19	Aliquot NENE	36.215355	-107.501281	SAN DOVAL	NEW MEXICO	NEW MEXICO	F	NMSF078360	7048			N
KOP Leg #1	977	FNL	251	FEL	23N	6W	19	Aliquot NENE	36.215355	-107.501281	SAN DOVAL	NEW MEXICO	NEW MEXICO	F	NMSF078360	2160	4925	4888	N

Operator Name: COLEMAN OIL & GAS INCORPORATED

Well Name: LYBROOK FED COM 23-6-19 GP **Well Number:** 001H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
PPP Leg #1-1	660	FNL	100	FWL	23N	6W	20	Aliquot NWNW	36.21621	-107.500106	SANDOVAL	NEW MEXICO	NEW MEXICO	F	FEE	1444	6046	5604	N
PPP Leg #1-2	0	FNL	0	FWL	23N	6W	21	Aliquot NWNW	36.21621	-107.500106	SANDOVAL	NEW MEXICO	NEW MEXICO	F	FEE	1444	6046	5604	N
PPP Leg #1-3	0	FNL	0	FWL	23N	6W	21	Aliquot NENW	36.21621	-107.500106	SANDOVAL	NEW MEXICO	NEW MEXICO	F	NMNM 112953	1444	6046	5604	N
PPP Leg #1-4	0	FNL	0	FWL	23N	6W	21	Aliquot SENE	36.21621	-107.500106	SANDOVAL	NEW MEXICO	NEW MEXICO	F	NMNM 42933	1444	6046	5604	N
EXIT Leg #1	660	FNL	100	FEL	23N	6W	21	Aliquot NENE	36.215808	-107.465008	SANDOVAL	NEW MEXICO	NEW MEXICO	F	NMNM 42933	1379	16402	5669	Y
BHL Leg #1	660	FNL	100	FEL	23N	6W	21	Aliquot NENE	36.215808	-107.465008	SANDOVAL	NEW MEXICO	NEW MEXICO	F	NMNM 42933	1379	16402	5669	Y

Form C-102	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024
Submit Electronically Via OCD Permitting		Submittal Type: ☒ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-043-21529	97232	BASIN MANCOS

Property Code	Property Name	Well Number
337737	LYBROOK FED COM 23-6-19 GP	001H

OGRID No.	Operator Name	Ground Level Elevation
4838	COLEMAN OIL & GAS, INC.	7048

Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Mineral Owner: ☐ State ☒ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Feet from N/S	Ft from E/W	Latitude	Longitude	County
A	19	23N	6W		977 NORTH	251 EAST	36.215355°N NAD83	107.501281°W NAD83	SANDOVAL

Bottom Hole Location

UL	Section	Township	Range	Lot	Feet from N/S	Ft from E/W	Latitude	Longitude	County
A	21	23N	6W		660 NORTH	100 EAST	36.215808°N NAD83	107.465008°W NAD83	SANDOVAL

Dedicated Acres:	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
SEC 20: N2/N2 (320 ACRES) SEC 21: N2/N2 (320 ACRES) = 640 ACRES			N	

Order Numbers:

Well setbacks are under Common Ownerships: ☐ Yes ☐ No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet from N/S	Ft from E/W	Latitude	Longitude	County
D	20	23N	6W		660 NORTH	100 WEST	36.216210°N NAD83	107.500106°W NAD83	SANDOVAL

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet from N/S	Ft from E/W	Latitude	Longitude	County
D	20	23N	6W		660 NORTH	100 WEST	36.216210°N NAD83	107.500106°W NAD83	SANDOVAL

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet from N/S	Ft from E/W	Latitude	Longitude	County
A	21	23N	6W		660 NORTH	100 EAST	36.215808°N NAD83	107.465008°W NAD83	SANDOVAL

Unitized Area or Area of Uniform Interest	Spacing Unit Type: ☒ Horizontal ☐ Vertical	Ground Floor Elevation:

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I futher certify that this organization has received the concent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool of formation) in which any part of the well's completed interval will be located of obtained a compulsory pooling order from the division.

Shawna Martinez 11/22/2024

Signature Date

Shawna Martinez

Printed Name

Shawna@walsheng.net

E-mail Address

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.

GLEN W. RUSSELL NEW MEXICO 15703 LICENSED PROFESSIONAL SURVEYOR

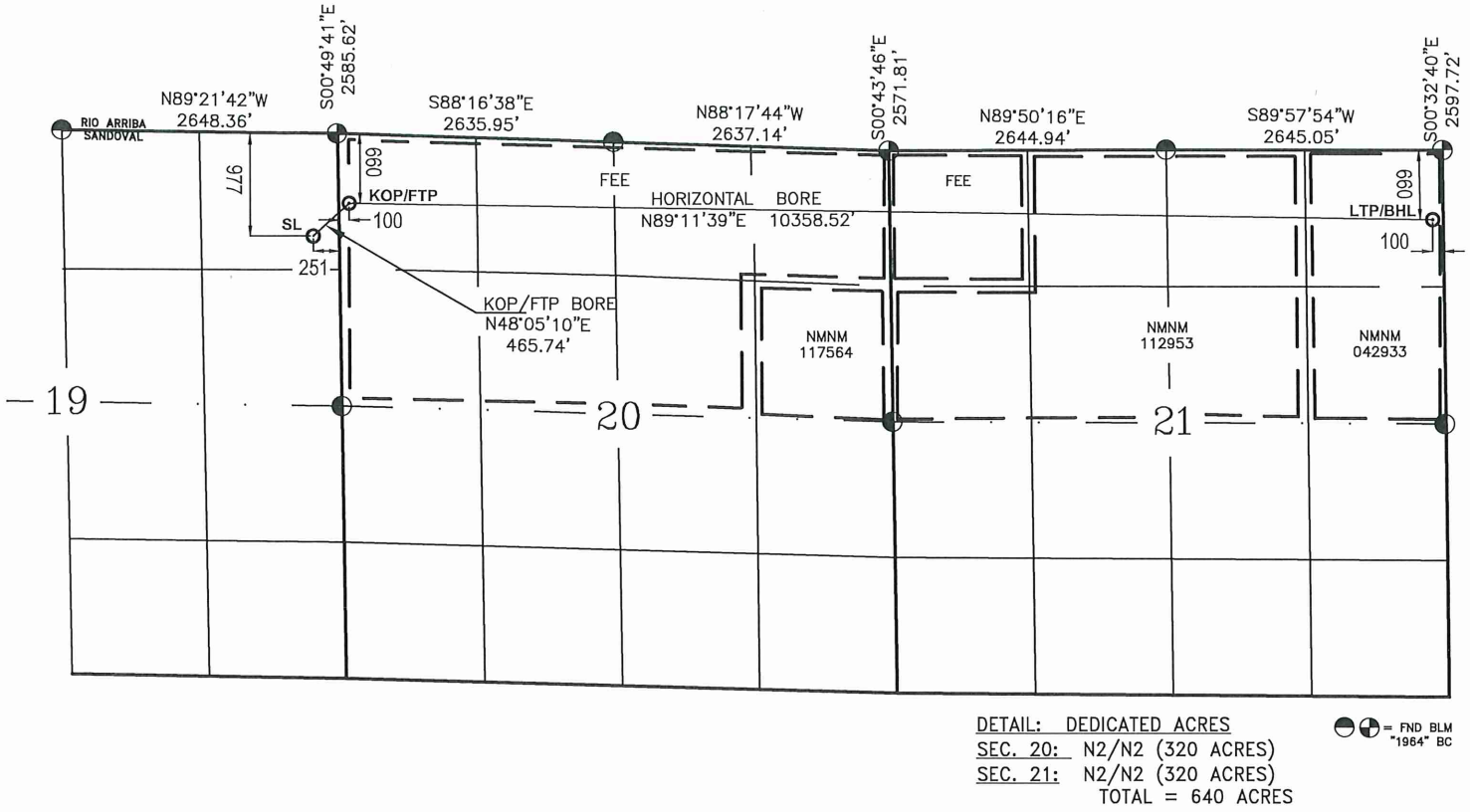
GLEN W. RUSSELL

Signature and Seal of Professional Surveyor:

Certificate Number	Date of Survey
15703	NOVEMBER 19, 2024

Note: 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.

COLEMAN OIL & GAS, INC.
LYBROOK FED COM 23-6-19 GP #001H



DETAIL: DEDICATED ACRES
SEC. 20: N2/N2 (320 ACRES)
SEC. 21: N2/N2 (320 ACRES)
TOTAL = 640 ACRES

= FND BLM "1964" BC

SURFACE (SL)
977' FNL, 251' FEL SEC. 19
LAT: 36.215355° N
LONG: 107.501281° W NAD83

FIRST TAKE POINT (FTP)
660' FNL, 100' FWL SEC. 20
LAT: 36.216210° N
LONG: 107.500106° W NAD83

BOTTOM HOLE (BHL)
660' FNL, 100' FEL SEC.21
LAT: 36.216808° N
LONG: 107.465008° W NAD83

KICK OFF POINT (KOP)
660' FNL, 100' FWL SEC. 20
LAT: 36.216210° N
LONG: 107.500106° W NAD83

LAST TAKE POINT (LTP)
660' FNL, 100' FEL SEC.21
LAT: 36.216808° N
LONG: 107.465008° W NAD83

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

Drilling Plan Data Report
08/12/2025

APD ID: 10400094254
Submission Date: 12/02/2024

Operator Name: COLEMAN OIL & GAS INCORPORATED

Well Name: LYBROOK FED COM 23-6-19 GP
Well Number: 001H

Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
16211551	NACIMIENTO	7048	0	0	SANDSTONE, SHALE	NONE	N
16211539	OJO ALAMAO	5589	1459	1461	SANDSTONE, SHALE	NONE	N
16211540	KIRTLAND	5491	1557	1560	SANDSTONE, SHALE	NONE	N
16211541	FRUITLAND COAL	5295	1753	1760	COAL, SANDSTONE, SHALE	NATURAL GAS	N
16211542	PICTURED CLIFFS	5024	2024	2034	SANDSTONE, SHALE	NATURAL GAS	N
16211543	LEWIS	4935	2113	2124	SHALE	NATURAL GAS	N
16211544	CHACRA	4155	2893	2915	SANDSTONE	NATURAL GAS	N
16211545	CLIFFHOUSE	3524	3524	3555	SANDSTONE	NATURAL GAS	N
16211546	MENEFEE	3495	3553	3585	COAL, SANDSTONE, SHALE	NONE	N
16211547	POINT LOOKOUT	2751	4297	4334	SANDSTONE, SHALE	NATURAL GAS	N
16211548	MANCOS	2555	4493	4530	SANDSTONE, SHALE, SILTSTONE	NATURAL GAS, OIL	N
16211538	GALLUP	1444	5604	6046	SANDSTONE, SHALE, SILTSTONE	NATURAL GAS, OIL	N
16211550		0					

Section 2 - Blowout Prevention

Operator Name: COLEMAN OIL & GAS INCORPORATED

Well Name: LYBROOK FED COM 23-6-19 GP **Well Number:** 001H

Pressure Rating (PSI): 5M **Rating Depth:** 10000

Equipment: The BOP system shall have two (2) independent power sources (electric and air) available for powering the closing unit pumps. Sufficient nitrogen bottles are suitable as a backup power source only, and shall be recharged when the pressure falls below manufacturers specification. A valve shall be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve shall be maintained in the open position and shall be closed only when the power source for the accumulator system is inoperative. All BOP equipment will be hydraulically operated with controls accessible both on the rig floor. The wellhead BOP equipment will be nippled-up on the 9-5/8 x 11 5,000 psi WP casing head prior to drilling out from under surface casing. All ram preventers and related equipment will be tested to 5,000 psi for 10 minutes.

Requesting Variance? NO

Variance request:

Testing Procedure: Surface casing will be tested to 70% of internal yield pressure. All preventers and surface casing will be tested before drilling out of surface casing. BOP equipment will be tested every 14 days, after any repairs are made to the BOP equipment, and after the BOP equipment is subjected to pressure. Annular preventers will be functionally operated at least once per week. Pipe rams will be activated daily and blind rams shall be activated each trip or at least weekly. The New Mexico Oil & Gas Conservation Commission and the BLM will be notified 24 hours in advance of testing of BOPE and 9 5/8 slip-on / welded x 11 5,000 psi casing head.

Choke Diagram Attachment:

BOP_Choke__Diagram_20241125111306.pdf

BOP Diagram Attachment:

BOP_Choke__Diagram_20241125111314.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	12.25	9.5	NEW	API	N	0	500	0	500	7048	6548	500	K-55	36	LT&C	1.125	1	BUOY	1.6	BUOY	1.6
2	INTERMEDIATE	8.75	7.0	NEW	API	N	0	6046	0	5604	7049	1444	6046	J-55	26	LT&C	1.125	1	BUOY	1.6	BUOY	1.6
3	LINER	6.125	4.5	NEW	API	N	5946	16402	5604	5670	1444	1378	10456	P-110	11.6	LT&C	1.125	1	BUOY	1.6	BUOY	1.6

Casing Attachments

Operator Name: COLEMAN OIL & GAS INCORPORATED

Well Name: LYBROOK FED COM 23-6-19 GP **Well Number:** 001H

Casing Attachments

Casing ID: 1 **String** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assumption_Worksheet_submitted_under_Section_8_20250116144448.pdf

Casing ID: 2 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assumption_Worksheet_submitted_under_Section_8_20250116144522.pdf

Casing ID: 3 **String** LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assumption_Worksheet_submitted_under_Section_8_20250116144505.pdf

Section 4 - Cement

Operator Name: COLEMAN OIL & GAS INCORPORATED

Well Name: LYBROOK FED COM 23-6-19 GP **Well Number:** 001H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	500	60	2.99	11.5	179.4	125	Varicem	0.125# Poly-E-Flake 0.25# Kwick Seal
SURFACE	Tail		0	500	100	1.83	13.5	183.1	125	Varicem	0.125# Poly-E-Flake 0.25# Kwick Seal
INTERMEDIATE	Lead		0	6108	350	2.99	11.5	1046.5	100	Varicem	0.125# Poly-E-Flake 0.25# Kwick Seal
INTERMEDIATE	Tail		0	6108	392	1.97	12	772.24	100	Halcem	0.05% sa-1015 5 LBM Kol-Seal 0.125 Poly-E-Flake
LINER	Lead		6008	16458	561	2.63	11.5	1475.43	50	Varicem	0.125# Poly-E-Flake 0.25# Kwick Seal

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 43 CFR 3172:

Diagram of the equipment for the circulating system in accordance with 43 CFR 3172:

Describe what will be on location to control well or mitigate other conditions: There will be sufficient mud on location to control a blowout should one occur.

Describe the mud monitoring system utilized: Mud flow and volume will be monitored both visually and with electronic pit volume totalizers. Mud tests shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and PH.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	500	SPUD MUD	8.3	9.4							
500	6046	LOW SOLIDS NON-DISPERSED (LSND)	8.3	9.5							

Operator Name: COLEMAN OIL & GAS INCORPORATED

Well Name: LYBROOK FED COM 23-6-19 GP **Well Number:** 001H

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
6046	16402	LOW SOLIDS NON-DISPERSED (LSND)	8.3	9.5				15			

Section 6 - Test, Logging, Coring

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

Reference Drilling OPS Plan

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

CEMENT BOND LOG,GAMMA RAY LOG,

Coring operation description for the well:

No Coring.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 2000 **Anticipated Surface Pressure:** 752

Anticipated Bottom Hole Temperature(F): 185

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? NO

Hydrogen sulfide drilling operations

Operator Name: COLEMAN OIL & GAS INCORPORATED

Well Name: LYBROOK FED COM 23-6-19 GP **Well Number:** 001H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Directional_Drlg_Plans_LYBROOK_FED_COM_23_6_19_GP_001H_Design_1_Plot_20230905115419.pdf

LYBROOK_FED_COM_23_6_19_GP_001H_Standard_Planning_RPT_20250129135219.pdf

Other proposed operations facets description:

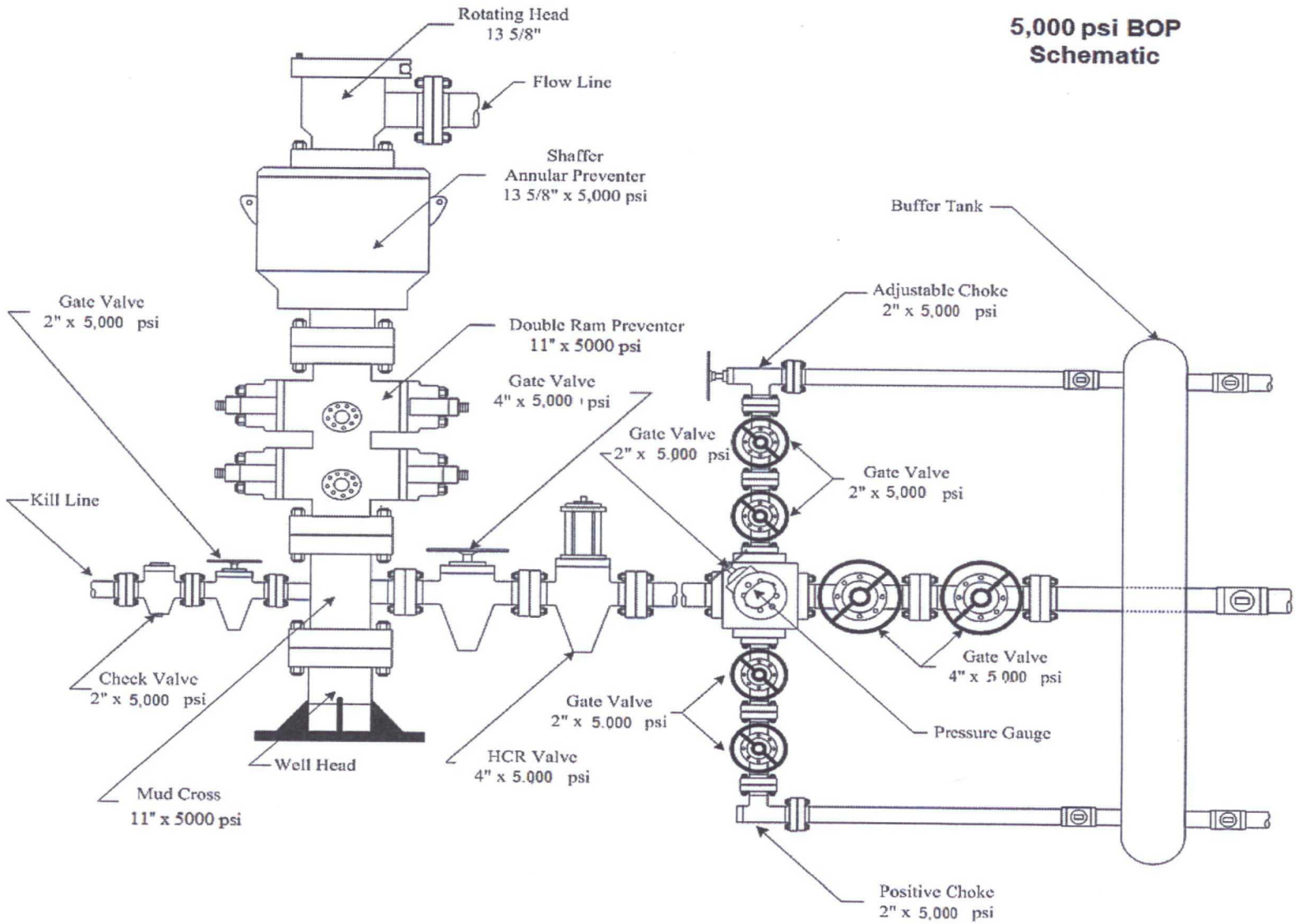
Other proposed operations facets attachment:

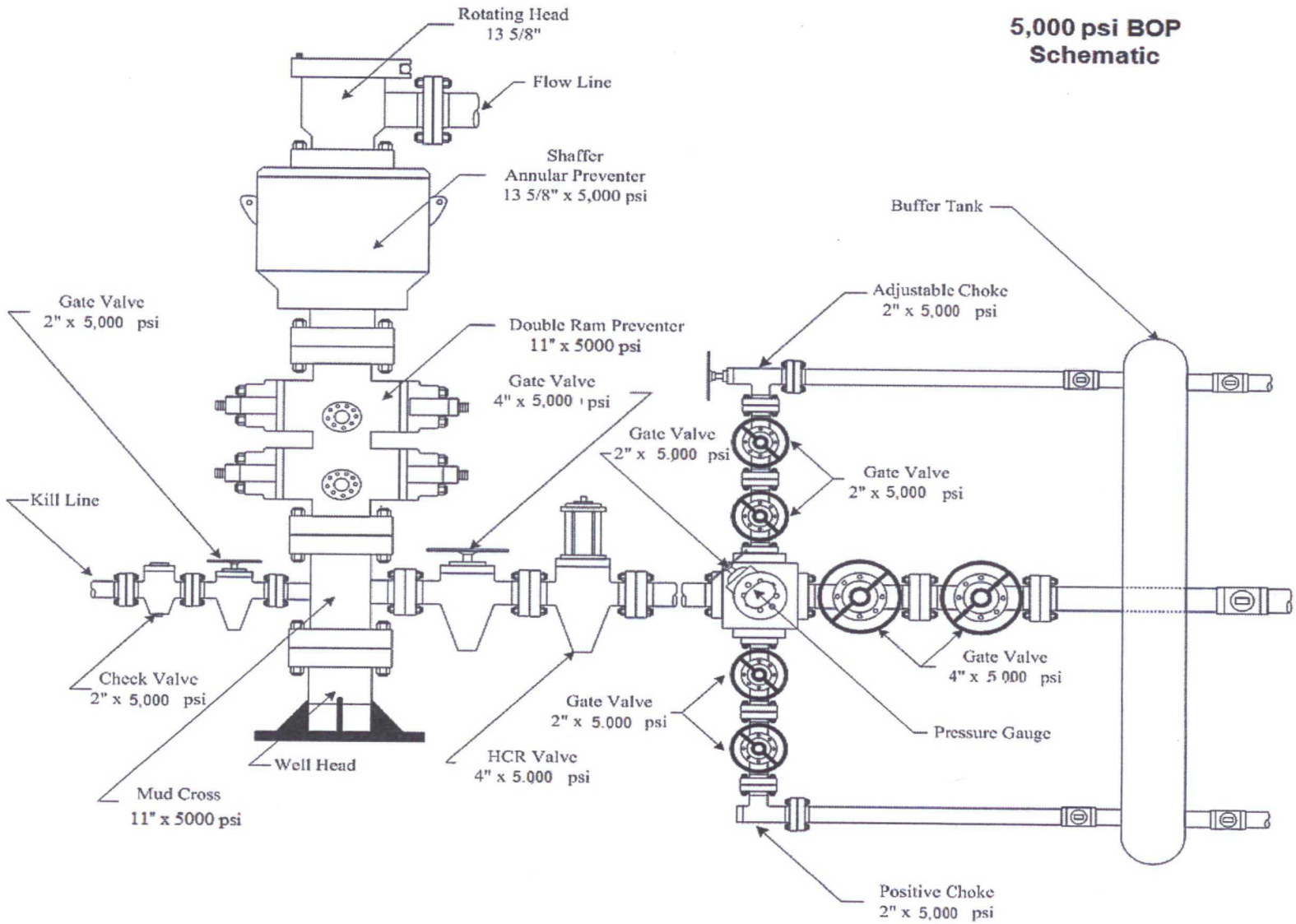
Lybrook_Fed_Com_23_6_19_GP_001H_Drilling_Plan_20250320110426.pdf

Lybrook_Fed_Com_23_6_19_NGMP_20250320110446.pdf

Other Variance request(s)?: N

Other Variance attachment:


5,000 psi BOP
Schematic
Rotating Head
13 5/8"
Flow Line
Shaffer
Annular Preventer
13 5/8" x 5,000 psi
Buffer Tank
Adjustable Choke
2" x 5,000 psi
Gate Valve
2" x 5,000 psi
Double Ram Preventer
11" x 5000 psi
Gate Valve
4" x 5,000 psi
Gate Valve
2" x 5,000 psi
Gate Valve
2" x 5,000 psi
Kill Line
Gate Valve
4" x 5,000 psi
Check Valve
2" x 5,000 psi
Gate Valve
2" x 5,000 psi
Pressure Gauge
Well Head
HCR Valve
4" x 5,000 psi
Mud Cross
11" x 5000 psi
Positive Choke
2" x 5,000 psi


5,000 psi BOP
Schematic
Rotating Head
13 5/8"
Flow Line
Shaffer
Annular Preventer
13 5/8" x 5,000 psi
Buffer Tank
Adjustable Choke
2" x 5,000 psi
Gate Valve
2" x 5,000 psi
Double Ram Preventer
11" x 5000 psi
Gate Valve
4" x 5,000 psi
Gate Valve
2" x 5,000 psi
Gate Valve
2" x 5,000 psi
Kill Line
Gate Valve
4" x 5,000 psi
Check Valve
2" x 5,000 psi
Gate Valve
2" x 5,000 psi
Pressure Gauge
Well Head
HCR Valve
4" x 5,000 psi
Mud Cross
11" x 5000 psi
Positive Choke
2" x 5,000 psi

Casing Design Assumption Worksheet submitted under Section 8 – Other Information.

Casing Design Assumption Worksheet submitted under Section 8 – Other Information.

Casing Design Assumption Worksheet submitted under Section 8 – Other Information.

Coleman Oil & Gas

Well: LYBROOK FED COM 23-6-19 GP 001H	Field: Sandoval County, NM	Site: 23N 06W SEC 19	Rig: TBD KB 26Ft North Ref Grid North
Well Information Borehole: OWB VS Azm: 89.85deg Plan: Design #1 Drawn Date: 04-16-2023	Well Reference: Datum: US State Plane 1983 KB Ref: 7074ft Zone: New Mexico Central Zone GL: 7048.00ft	Surface Location: Latitude: 36.215355 Longitude: -107.501281 Northing: 1900036.85 Easting: 1271309.64	Magnetic Data: Model: IGRF2020 Date: 16-Apr-23 DEC: 8.50° DIP: 62.74° FieldStr: 49142 GridCorr.: -0.74

Plan: Design #1

Critical Points

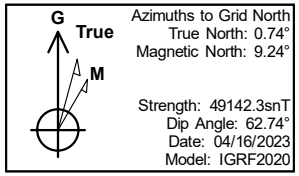
Sec MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	Build 2°/100 DLS
1479.02	9.58	312.03	1476.79	26.75	-29.68	2.00	312.03	-29.61	Hold Tangent
3679.33	9.58	312.03	3646.41	271.92	-301.70	0.00	0.00	-300.97	Drop 1°/100 DLS
4637.38	0.00	91.50	4600.00	325.42	-361.06	1.00	180.00	-360.18	Vertical Point
4925.18	0.00	91.50	4887.81	325.42	-361.06	0.00	91.50	-360.18	KOP, Build 8°/100 DLS
6045.69	89.64	91.53	5603.99	306.42	350.38	8.00	91.53	351.21	Landing Tgt
16401.74	89.64	91.54	5669.00	28.82	10702.51	0.00	86.72	10702.55	PBHL/TD

Target Details

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LFC GP 1H FTP	5604.00	306.78	350.64	1900343.63	1271660.28	36.216210	-107.500106
LFC GP 1H PBHL	5669.00	28.82	10702.51	1900065.67	1282012.13	36.215808	-107.465008

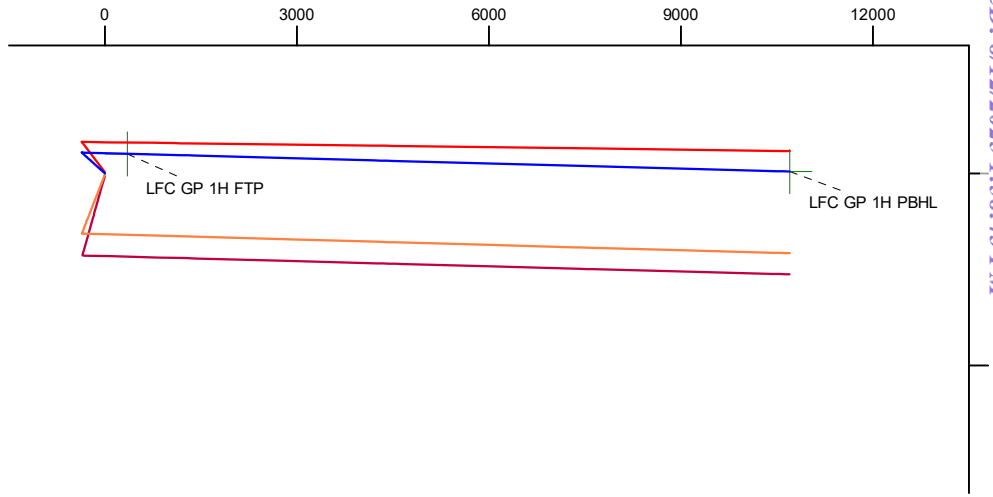
Formation Top Details

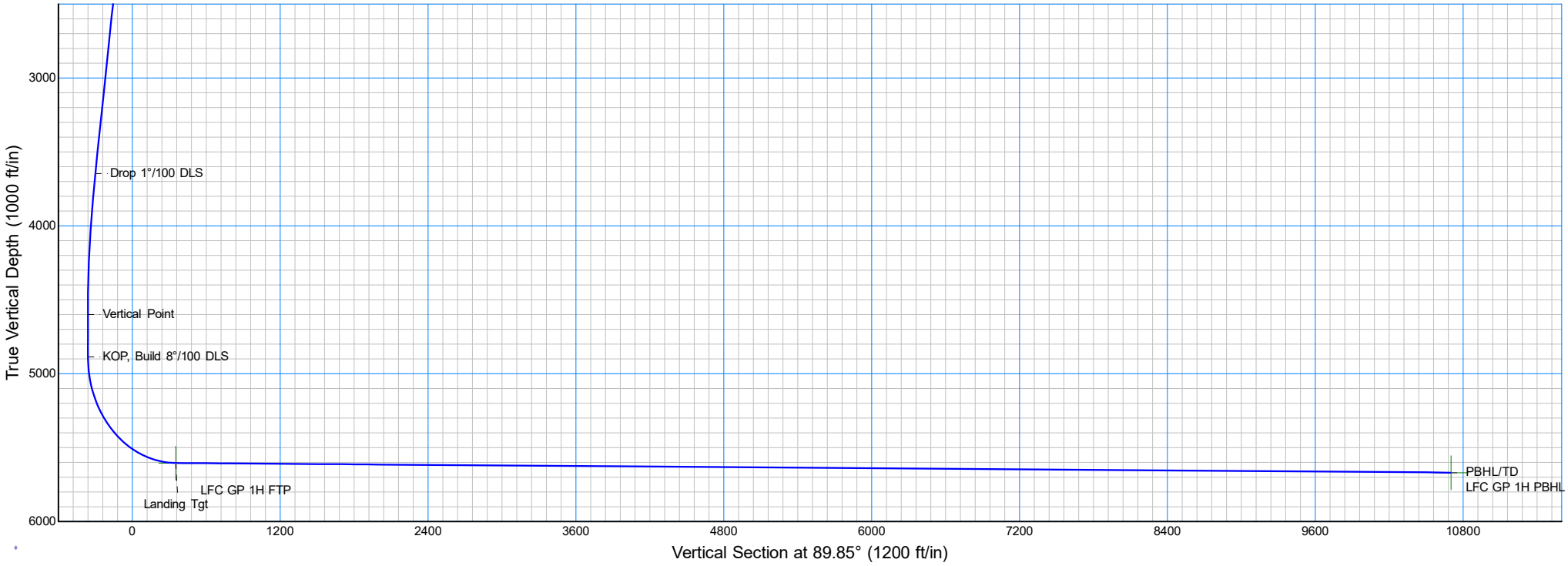
TVDPath	MDPath	Formation
1459.00	1460.99	OjoAlamo
1557.00	1560.36	Kirtland
1753.00	1759.14	Fruitland
2024.00	2033.97	Pi ctured Cliffs Ss
2113.00	2124.23	Lewis Sh
2893.00	2915.26	Chacra Ss
3524.00	3555.19	Cliff House Ss
3553.00	3584.60	Menefee
4297.00	4334.23	Point Lookout Ss
4493.00	4530.37	Mancos Sh
5361.00	5442.10	El Vado BSs
5537.00	5737.91	Gallup Ss



Azimuths to Grid North
True North: 0.74°
Magnetic North: 9.24°

Strength: 49142.3snT
Dip Angle: 62.74°
Date: 04/16/2023
Model: IGRF2020





Coleman Oil & Gas

Sandoval County, NM
23N 06W SEC 19
LYBROOK FED COM 23-6-19 GP 001H

OWB

Plan: Design #1

Standard Planning Report

16 April, 2023

Coleman Oil & Gas

Well: LYBROOK FED COM 23-6-19 GP 001H	Field: Sandoval County, NM	Site: 23N 06W SEC 19	Rig: TBD KB 26Ft North Ref Grid North
Well Information Borehole: OWB VS Azm: 89.85deg Plan: Design #1 Drawn Date: 04-16-2023	Well Reference: Datum: US State Plane 1983 KB Ref: 7074ft Zone: New Mexico Central Zone GL: 7048.00ft	Surface Location: Latitude: 36.215355 Longitude: -107.501281 Northing: 1900036.85 Easting: 1271309.64	Magnetic Data: Model: IGRF2020 Date: 16-Apr-23 DEC: 8.50° DIP: 62.74° FieldStr: 49142 GridCorr.: -0.74

Plan: Design #1

Critical Points

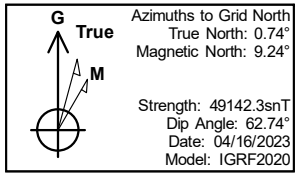
Sec MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	Build 2°/100 DLS
1479.02	9.58	312.03	1476.79	26.75	-29.68	2.00	312.03	-29.61	Hold Tangent
3679.33	9.58	312.03	3646.41	271.92	-301.70	0.00	0.00	-300.97	Drop 1°/100 DLS
4637.38	0.00	91.50	4600.00	325.42	-361.06	1.00	180.00	-360.18	Vertical Point
4925.18	0.00	91.50	4887.81	325.42	-361.06	0.00	91.50	-360.18	KOP, Build 8°/100 DLS
6045.69	89.64	91.53	5603.99	306.42	350.38	8.00	91.53	351.21	Landing Tgt
16401.74	89.64	91.54	5669.00	28.82	10702.51	0.00	86.72	10702.55	PBHL/TD

Target Details

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LFC GP 1H FTP	5604.00	306.78	350.64	1900343.63	1271660.28	36.216210	-107.500106
LFC GP 1H PBHL	5669.00	28.82	10702.51	1900065.67	1282012.13	36.215808	-107.465008

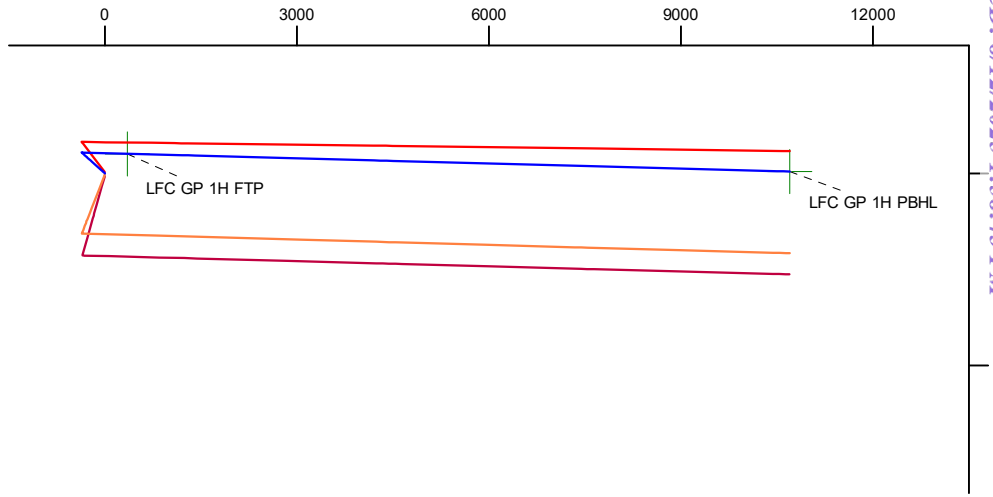
Formation Top Details

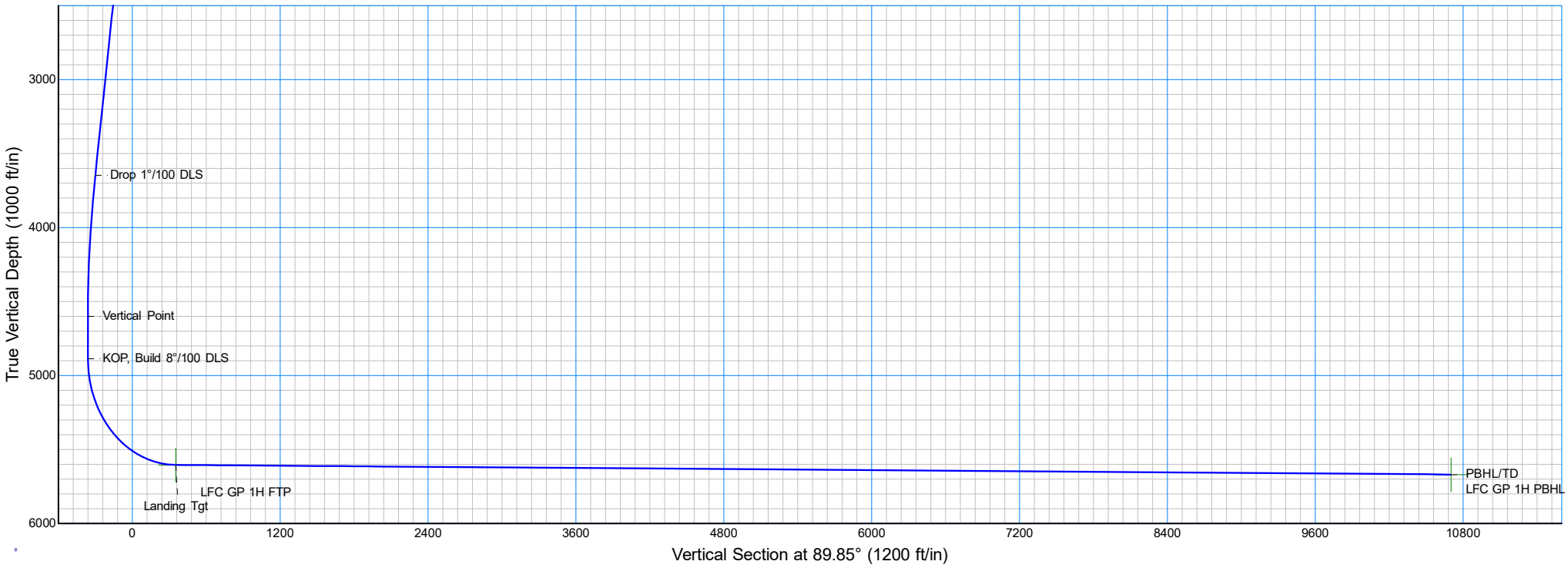
TVDPath	MDPath	Formation
1459.00	1460.99	OjoAlamo
1557.00	1560.36	Kirtland
1753.00	1759.14	Fruitland
2024.00	2033.97	Pi ctured Cliffs Ss
2113.00	2124.23	Lewis Sh
2893.00	2915.26	Chacra Ss
3524.00	3555.19	Cliff House Ss
3553.00	3584.60	Menefee
4297.00	4334.23	Point Lookout Ss
4493.00	4530.37	Mancos Sh
5361.00	5442.10	El Vado BSs
5537.00	5737.91	Gallup Ss



Azimuths to Grid North
True North: 0.74°
Magnetic North: 9.24°

Strength: 49142.3snT
Dip Angle: 62.74°
Date: 04/16/2023
Model: IGRF2020





Planning Report

Database:	EDM 5000.1 Seideltech	**Local Co-ordinate Reference:**	Well LYBROOK FED COM 23-6-19 GP 001H
Company:	Coleman Oil & Gas	**TVD Reference:**	KB 26Ft @ 7074.00ft (TBD)
Project:	Sandoval County, NM	**MD Reference:**	KB 26Ft @ 7074.00ft (TBD)
Site:	23N 06W SEC 19	**North Reference:**	Grid
Well:	LYBROOK FED COM 23-6-19 GP 001H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Design #1		

Project	Sandoval County, NM		
Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Central Zone		

Site	23N 06W SEC 19				
Site Position:		**Northing:**	1,900,056.88 usft	**Latitude:**	36.215410
From:	Lat/Long	**Easting:**	1,271,309.60 usft	**Longitude:**	-107.501282
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	-0.74 °

Well	LYBROOK FED COM 23-6-19 GP 001H, 23N 06W SEC 19 NENE A					
Well Position	**+N/-S**	-20.03 ft	**Northing:**	1,900,036.85 usft	**Latitude:**	36.215355
	+E/-W	0.04 ft	**Easting:**	1,271,309.64 usft	**Longitude:**	-107.501281
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	7,048.00 ft	**Ground Level:**	7,048.00 ft

Wellbore	OWB			
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2020	04/16/23	8.50	62.74	49,142

Design	Design #1			
Audit Notes:				
Version:	**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**
	0.00	0.00	0.00	89.85

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,479.02	9.58	312.03	1,476.79	26.75	-29.68	2.00	2.00	0.00	312.03	
3,679.33	9.58	312.03	3,646.41	271.92	-301.70	0.00	0.00	0.00	0.00	
4,637.38	0.00	91.50	4,600.00	325.42	-361.06	1.00	-1.00	0.00	180.00	
4,925.18	0.00	91.50	4,887.81	325.42	-361.06	0.00	0.00	0.00	91.50	
6,045.69	89.64	91.53	5,603.99	306.42	350.38	8.00	8.00	0.00	91.53	
16,401.74	89.64	91.54	5,669.00	28.82	10,702.51	0.00	0.00	0.00	86.72	LFC GP 1H PBHL

Planning Report

Database:	EDM 5000.1 Seideltech	**Local Co-ordinate Reference:**	Well LYBROOK FED COM 23-6-19 GP 001H
Company:	Coleman Oil & Gas	**TVD Reference:**	KB 26Ft @ 7074.00ft (TBD)
Project:	Sandoval County, NM	**MD Reference:**	KB 26Ft @ 7074.00ft (TBD)
Site:	23N 06W SEC 19	**North Reference:**	Grid
Well:	LYBROOK FED COM 23-6-19 GP 001H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Design #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
Build 2°/100 DLS									
1,100.00	2.00	312.03	1,099.98	1.17	-1.30	-1.29	2.00	2.00	0.00
1,200.00	4.00	312.03	1,199.84	4.67	-5.18	-5.17	2.00	2.00	0.00
1,300.00	6.00	312.03	1,299.45	10.51	-11.66	-11.63	2.00	2.00	0.00
1,400.00	8.00	312.03	1,398.70	18.67	-20.71	-20.66	2.00	2.00	0.00
1,460.99	9.22	312.03	1,459.00	24.78	-27.49	-27.42	2.00	2.00	0.00
OjoAlamo									
1,479.02	9.58	312.03	1,476.79	26.75	-29.68	-29.61	2.00	2.00	0.00
Hold Tangent									
1,500.00	9.58	312.03	1,497.48	29.09	-32.27	-32.19	0.00	0.00	0.00
1,560.36	9.58	312.03	1,557.00	35.81	-39.74	-39.64	0.00	0.00	0.00
Kirtland									
1,600.00	9.58	312.03	1,596.09	40.23	-44.64	-44.53	0.00	0.00	0.00
1,700.00	9.58	312.03	1,694.69	51.37	-57.00	-56.86	0.00	0.00	0.00
1,759.14	9.58	312.03	1,753.00	57.96	-64.31	-64.15	0.00	0.00	0.00
Fruitland									
1,800.00	9.58	312.03	1,793.30	62.52	-69.36	-69.19	0.00	0.00	0.00
1,900.00	9.58	312.03	1,891.90	73.66	-81.72	-81.53	0.00	0.00	0.00
2,000.00	9.58	312.03	1,990.51	84.80	-94.09	-93.86	0.00	0.00	0.00
2,033.97	9.58	312.03	2,024.00	88.59	-98.29	-98.05	0.00	0.00	0.00
Pi ctured Cliffs Ss									
2,100.00	9.58	312.03	2,089.11	95.94	-106.45	-106.19	0.00	0.00	0.00
2,124.23	9.58	312.03	2,113.00	98.64	-109.45	-109.18	0.00	0.00	0.00
Lewis Sh									
2,200.00	9.58	312.03	2,187.72	107.09	-118.81	-118.52	0.00	0.00	0.00
2,300.00	9.58	312.03	2,286.33	118.23	-131.18	-130.86	0.00	0.00	0.00
2,400.00	9.58	312.03	2,384.93	129.37	-143.54	-143.19	0.00	0.00	0.00
2,500.01	9.58	312.03	2,483.54	140.51	-155.90	-155.52	0.00	0.00	0.00
2,600.01	9.58	312.03	2,582.14	151.66	-168.27	-167.86	0.00	0.00	0.00
2,700.01	9.58	312.03	2,680.75	162.80	-180.63	-180.19	0.00	0.00	0.00
2,800.01	9.58	312.03	2,779.35	173.94	-192.99	-192.52	0.00	0.00	0.00
2,900.01	9.58	312.03	2,877.96	185.08	-205.35	-204.85	0.00	0.00	0.00
2,915.26	9.58	312.03	2,893.00	186.78	-207.24	-206.74	0.00	0.00	0.00
Chacra Ss									
3,000.01	9.58	312.03	2,976.56	196.23	-217.72	-217.19	0.00	0.00	0.00
3,100.01	9.58	312.03	3,075.17	207.37	-230.08	-229.52	0.00	0.00	0.00
3,200.01	9.58	312.03	3,173.77	218.51	-242.44	-241.85	0.00	0.00	0.00
3,300.01	9.58	312.03	3,272.38	229.65	-254.81	-254.19	0.00	0.00	0.00
3,400.01	9.58	312.03	3,370.99	240.80	-267.17	-266.52	0.00	0.00	0.00
3,500.01	9.58	312.03	3,469.59	251.94	-279.53	-278.85	0.00	0.00	0.00
3,555.19	9.58	312.03	3,524.00	258.09	-286.35	-285.66	0.00	0.00	0.00
Cliff House Ss									

Planning Report

Database:	EDM 5000.1 Seideltech	**Local Co-ordinate Reference:**	Well LYBROOK FED COM 23-6-19 GP 001H
Company:	Coleman Oil & Gas	**TVD Reference:**	KB 26Ft @ 7074.00ft (TBD)
Project:	Sandoval County, NM	**MD Reference:**	KB 26Ft @ 7074.00ft (TBD)
Site:	23N 06W SEC 19	**North Reference:**	Grid
Well:	LYBROOK FED COM 23-6-19 GP 001H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Design #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,584.60	9.58	312.03	3,553.00	261.36	-289.99	-289.28	0.00	0.00	0.00
Menefee									
3,600.01	9.58	312.03	3,568.20	263.08	-291.89	-291.18	0.00	0.00	0.00
3,679.33	9.58	312.03	3,646.41	271.92	-301.70	-300.97	0.00	0.00	0.00
Drop 1°/100 DLS									
3,700.01	9.37	312.03	3,666.81	274.20	-304.23	-303.49	1.00	-1.00	0.00
3,800.01	8.37	312.03	3,765.61	284.53	-315.69	-314.92	1.00	-1.00	0.00
3,900.01	7.37	312.03	3,864.67	293.70	-325.86	-325.07	1.00	-1.00	0.00
4,000.01	6.37	312.03	3,963.95	301.71	-334.75	-333.94	1.00	-1.00	0.00
4,100.01	5.37	312.03	4,063.42	308.56	-342.36	-341.52	1.00	-1.00	0.00
4,200.01	4.37	312.03	4,163.06	314.25	-348.67	-347.82	1.00	-1.00	0.00
4,300.01	3.37	312.03	4,262.83	318.77	-353.68	-352.82	1.00	-1.00	0.00
4,334.23	3.03	312.03	4,297.00	320.05	-355.10	-354.24	1.00	-1.00	0.00
Point Lookout Ss									
4,400.01	2.37	312.03	4,362.70	322.13	-357.41	-356.54	1.00	-1.00	0.00
4,500.01	1.37	312.03	4,462.65	324.32	-359.84	-358.96	1.00	-1.00	0.00
4,530.37	1.07	312.03	4,493.00	324.75	-360.32	-359.44	1.00	-1.00	0.00
Mancos Sh									
4,600.01	0.37	312.03	4,562.63	325.34	-360.97	-360.09	1.00	-1.00	0.00
4,637.38	0.00	91.50	4,600.00	325.42	-361.06	-360.18	1.00	-1.00	0.00
Vertical Point									
4,700.01	0.00	91.50	4,662.63	325.42	-361.06	-360.18	0.00	0.00	0.00
4,800.01	0.00	91.50	4,762.63	325.42	-361.06	-360.18	0.00	0.00	0.00
4,900.01	0.00	91.50	4,862.63	325.42	-361.06	-360.18	0.00	0.00	0.00
4,925.18	0.00	91.50	4,887.81	325.42	-361.06	-360.18	0.00	0.00	0.00
KOP, Build 8°/100 DLS									
5,000.01	5.99	91.53	4,962.50	325.32	-357.16	-356.28	8.00	8.00	0.00
5,100.01	13.99	91.53	5,060.90	324.85	-339.84	-338.96	8.00	8.00	0.00
5,200.01	21.99	91.53	5,155.94	324.03	-308.99	-308.12	8.00	8.00	0.00
5,300.01	29.99	91.53	5,245.76	322.86	-265.23	-264.36	8.00	8.00	0.00
5,400.01	37.99	91.53	5,328.61	321.37	-209.40	-208.53	8.00	8.00	0.00
5,442.10	41.35	91.53	5,361.00	320.65	-182.54	-181.68	8.00	8.00	0.00
El Vado BSs									
5,500.01	45.99	91.53	5,402.88	319.58	-142.58	-141.72	8.00	8.00	0.00
5,600.01	53.99	91.53	5,467.12	317.54	-66.08	-65.22	8.00	8.00	0.00
5,700.01	61.99	91.53	5,520.09	315.28	18.61	19.46	8.00	8.00	0.00
5,737.91	65.02	91.53	5,537.00	314.37	52.51	53.36	8.00	8.00	0.00
Gallup Ss									
5,800.01	69.99	91.53	5,560.76	312.84	109.85	110.69	8.00	8.00	0.00
5,900.01	77.99	91.53	5,588.32	310.28	205.86	206.69	8.00	8.00	0.00
6,000.01	85.99	91.53	5,602.25	307.64	304.77	305.59	8.00	8.00	0.00
6,045.69	89.64	91.53	5,603.99	306.42	350.38	351.21	8.00	8.00	0.00
Landing Tgt									
6,100.01	89.64	91.53	5,604.34	304.97	404.69	405.51	0.00	0.00	0.00
6,200.01	89.64	91.53	5,604.96	302.30	504.65	505.46	0.00	0.00	0.00
6,300.01	89.64	91.53	5,605.59	299.63	604.62	605.42	0.00	0.00	0.00
6,400.01	89.64	91.53	5,606.22	296.96	704.58	705.37	0.00	0.00	0.00
6,500.01	89.64	91.53	5,606.85	294.28	804.54	805.33	0.00	0.00	0.00
6,600.01	89.64	91.53	5,607.48	291.61	904.50	905.28	0.00	0.00	0.00
6,700.01	89.64	91.53	5,608.10	288.94	1,004.47	1,005.24	0.00	0.00	0.00
6,800.01	89.64	91.53	5,608.73	286.27	1,104.43	1,105.19	0.00	0.00	0.00
6,900.01	89.64	91.53	5,609.36	283.60	1,204.39	1,205.15	0.00	0.00	0.00
7,000.01	89.64	91.53	5,609.99	280.93	1,304.35	1,305.10	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.1 Seideltech	**Local Co-ordinate Reference:**	Well LYBROOK FED COM 23-6-19 GP 001H
Company:	Coleman Oil & Gas	**TVD Reference:**	KB 26Ft @ 7074.00ft (TBD)
Project:	Sandoval County, NM	**MD Reference:**	KB 26Ft @ 7074.00ft (TBD)
Site:	23N 06W SEC 19	**North Reference:**	Grid
Well:	LYBROOK FED COM 23-6-19 GP 001H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Design #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,100.01	89.64	91.53	5,610.62	278.26	1,404.32	1,405.06	0.00	0.00	0.00
7,200.01	89.64	91.53	5,611.25	275.58	1,504.28	1,505.01	0.00	0.00	0.00
7,300.01	89.64	91.53	5,611.87	272.91	1,604.24	1,604.97	0.00	0.00	0.00
7,400.01	89.64	91.53	5,612.50	270.24	1,704.20	1,704.92	0.00	0.00	0.00
7,500.02	89.64	91.53	5,613.13	267.57	1,804.17	1,804.88	0.00	0.00	0.00
7,600.02	89.64	91.53	5,613.76	264.89	1,904.13	1,904.83	0.00	0.00	0.00
7,700.02	89.64	91.53	5,614.39	262.22	2,004.09	2,004.79	0.00	0.00	0.00
7,800.02	89.64	91.53	5,615.01	259.55	2,104.05	2,104.74	0.00	0.00	0.00
7,900.02	89.64	91.53	5,615.64	256.87	2,204.02	2,204.70	0.00	0.00	0.00
8,000.02	89.64	91.53	5,616.27	254.20	2,303.98	2,304.65	0.00	0.00	0.00
8,100.02	89.64	91.53	5,616.90	251.52	2,403.94	2,404.61	0.00	0.00	0.00
8,200.02	89.64	91.53	5,617.53	248.85	2,503.90	2,504.56	0.00	0.00	0.00
8,300.02	89.64	91.53	5,618.16	246.18	2,603.87	2,604.52	0.00	0.00	0.00
8,400.02	89.64	91.53	5,618.78	243.50	2,703.83	2,704.47	0.00	0.00	0.00
8,500.02	89.64	91.53	5,619.41	240.83	2,803.79	2,804.43	0.00	0.00	0.00
8,600.02	89.64	91.53	5,620.04	238.15	2,903.75	2,904.38	0.00	0.00	0.00
8,700.02	89.64	91.53	5,620.67	235.48	3,003.72	3,004.34	0.00	0.00	0.00
8,800.02	89.64	91.53	5,621.30	232.80	3,103.68	3,104.29	0.00	0.00	0.00
8,900.02	89.64	91.53	5,621.92	230.12	3,203.64	3,204.25	0.00	0.00	0.00
9,000.02	89.64	91.53	5,622.55	227.45	3,303.60	3,304.20	0.00	0.00	0.00
9,100.02	89.64	91.53	5,623.18	224.77	3,403.56	3,404.16	0.00	0.00	0.00
9,200.02	89.64	91.53	5,623.81	222.10	3,503.53	3,504.11	0.00	0.00	0.00
9,300.02	89.64	91.53	5,624.44	219.42	3,603.49	3,604.07	0.00	0.00	0.00
9,400.02	89.64	91.53	5,625.06	216.74	3,703.45	3,704.02	0.00	0.00	0.00
9,500.02	89.64	91.53	5,625.69	214.07	3,803.41	3,803.98	0.00	0.00	0.00
9,600.02	89.64	91.53	5,626.32	211.39	3,903.38	3,903.93	0.00	0.00	0.00
9,700.02	89.64	91.53	5,626.95	208.71	4,003.34	4,003.89	0.00	0.00	0.00
9,800.02	89.64	91.53	5,627.57	206.03	4,103.30	4,103.84	0.00	0.00	0.00
9,900.02	89.64	91.53	5,628.20	203.36	4,203.26	4,203.80	0.00	0.00	0.00
10,000.02	89.64	91.53	5,628.83	200.68	4,303.23	4,303.75	0.00	0.00	0.00
10,100.02	89.64	91.53	5,629.46	198.00	4,403.19	4,403.71	0.00	0.00	0.00
10,200.02	89.64	91.53	5,630.09	195.32	4,503.15	4,503.66	0.00	0.00	0.00
10,300.02	89.64	91.53	5,630.71	192.64	4,603.11	4,603.62	0.00	0.00	0.00
10,400.02	89.64	91.54	5,631.34	189.96	4,703.08	4,703.57	0.00	0.00	0.00
10,500.02	89.64	91.54	5,631.97	187.29	4,803.04	4,803.53	0.00	0.00	0.00
10,600.02	89.64	91.54	5,632.60	184.61	4,903.00	4,903.48	0.00	0.00	0.00
10,700.02	89.64	91.54	5,633.23	181.93	5,002.96	5,003.43	0.00	0.00	0.00
10,800.02	89.64	91.54	5,633.85	179.25	5,102.93	5,103.39	0.00	0.00	0.00
10,900.02	89.64	91.54	5,634.48	176.57	5,202.89	5,203.34	0.00	0.00	0.00
11,000.02	89.64	91.54	5,635.11	173.89	5,302.85	5,303.30	0.00	0.00	0.00
11,100.02	89.64	91.54	5,635.74	171.21	5,402.81	5,403.25	0.00	0.00	0.00
11,200.02	89.64	91.54	5,636.36	168.53	5,502.77	5,503.21	0.00	0.00	0.00
11,300.02	89.64	91.54	5,636.99	165.85	5,602.74	5,603.16	0.00	0.00	0.00
11,400.02	89.64	91.54	5,637.62	163.17	5,702.70	5,703.12	0.00	0.00	0.00
11,500.02	89.64	91.54	5,638.25	160.49	5,802.66	5,803.07	0.00	0.00	0.00
11,600.02	89.64	91.54	5,638.87	157.80	5,902.62	5,903.03	0.00	0.00	0.00
11,700.02	89.64	91.54	5,639.50	155.12	6,002.59	6,002.98	0.00	0.00	0.00
11,800.02	89.64	91.54	5,640.13	152.44	6,102.55	6,102.94	0.00	0.00	0.00
11,900.02	89.64	91.54	5,640.76	149.76	6,202.51	6,202.89	0.00	0.00	0.00
12,000.02	89.64	91.54	5,641.39	147.08	6,302.47	6,302.85	0.00	0.00	0.00
12,100.02	89.64	91.54	5,642.01	144.40	6,402.43	6,402.80	0.00	0.00	0.00
12,200.02	89.64	91.54	5,642.64	141.71	6,502.40	6,502.76	0.00	0.00	0.00
12,300.02	89.64	91.54	5,643.27	139.03	6,602.36	6,602.71	0.00	0.00	0.00
12,400.03	89.64	91.54	5,643.90	136.35	6,702.32	6,702.66	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.1 Seideltech	**Local Co-ordinate Reference:**	Well LYBROOK FED COM 23-6-19 GP 001H
Company:	Coleman Oil & Gas	**TVD Reference:**	KB 26Ft @ 7074.00ft (TBD)
Project:	Sandoval County, NM	**MD Reference:**	KB 26Ft @ 7074.00ft (TBD)
Site:	23N 06W SEC 19	**North Reference:**	Grid
Well:	LYBROOK FED COM 23-6-19 GP 001H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Design #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,500.03	89.64	91.54	5,644.52	133.66	6,802.28	6,802.62	0.00	0.00	0.00
12,600.03	89.64	91.54	5,645.15	130.98	6,902.25	6,902.57	0.00	0.00	0.00
12,700.03	89.64	91.54	5,645.78	128.30	7,002.21	7,002.53	0.00	0.00	0.00
12,800.03	89.64	91.54	5,646.41	125.61	7,102.17	7,102.48	0.00	0.00	0.00
12,900.03	89.64	91.54	5,647.03	122.93	7,202.13	7,202.44	0.00	0.00	0.00
13,000.03	89.64	91.54	5,647.66	120.25	7,302.09	7,302.39	0.00	0.00	0.00
13,100.03	89.64	91.54	5,648.29	117.56	7,402.06	7,402.35	0.00	0.00	0.00
13,200.03	89.64	91.54	5,648.92	114.88	7,502.02	7,502.30	0.00	0.00	0.00
13,300.03	89.64	91.54	5,649.54	112.19	7,601.98	7,602.26	0.00	0.00	0.00
13,400.03	89.64	91.54	5,650.17	109.51	7,701.94	7,702.21	0.00	0.00	0.00
13,500.03	89.64	91.54	5,650.80	106.82	7,801.91	7,802.17	0.00	0.00	0.00
13,600.03	89.64	91.54	5,651.43	104.14	7,901.87	7,902.12	0.00	0.00	0.00
13,700.03	89.64	91.54	5,652.05	101.45	8,001.83	8,002.07	0.00	0.00	0.00
13,800.03	89.64	91.54	5,652.68	98.77	8,101.79	8,102.03	0.00	0.00	0.00
13,900.03	89.64	91.54	5,653.31	96.08	8,201.75	8,201.98	0.00	0.00	0.00
14,000.03	89.64	91.54	5,653.94	93.40	8,301.72	8,301.94	0.00	0.00	0.00
14,100.03	89.64	91.54	5,654.56	90.71	8,401.68	8,401.89	0.00	0.00	0.00
14,200.03	89.64	91.54	5,655.19	88.02	8,501.64	8,501.85	0.00	0.00	0.00
14,300.03	89.64	91.54	5,655.82	85.34	8,601.60	8,601.80	0.00	0.00	0.00
14,400.03	89.64	91.54	5,656.44	82.65	8,701.57	8,701.76	0.00	0.00	0.00
14,500.03	89.64	91.54	5,657.07	79.96	8,801.53	8,801.71	0.00	0.00	0.00
14,600.03	89.64	91.54	5,657.70	77.27	8,901.49	8,901.67	0.00	0.00	0.00
14,700.03	89.64	91.54	5,658.33	74.59	9,001.45	9,001.62	0.00	0.00	0.00
14,800.03	89.64	91.54	5,658.95	71.90	9,101.41	9,101.57	0.00	0.00	0.00
14,900.03	89.64	91.54	5,659.58	69.21	9,201.38	9,201.53	0.00	0.00	0.00
15,000.03	89.64	91.54	5,660.21	66.52	9,301.34	9,301.48	0.00	0.00	0.00
15,100.03	89.64	91.54	5,660.84	63.84	9,401.30	9,401.44	0.00	0.00	0.00
15,200.03	89.64	91.54	5,661.46	61.15	9,501.26	9,501.39	0.00	0.00	0.00
15,300.03	89.64	91.54	5,662.09	58.46	9,601.22	9,601.35	0.00	0.00	0.00
15,400.03	89.64	91.54	5,662.72	55.77	9,701.19	9,701.30	0.00	0.00	0.00
15,500.03	89.64	91.54	5,663.34	53.08	9,801.15	9,801.26	0.00	0.00	0.00
15,600.03	89.64	91.54	5,663.97	50.39	9,901.11	9,901.21	0.00	0.00	0.00
15,700.03	89.64	91.54	5,664.60	47.70	10,001.07	10,001.16	0.00	0.00	0.00
15,800.03	89.64	91.54	5,665.23	45.01	10,101.03	10,101.12	0.00	0.00	0.00
15,900.03	89.64	91.54	5,665.85	42.32	10,201.00	10,201.07	0.00	0.00	0.00
16,000.03	89.64	91.54	5,666.48	39.63	10,300.96	10,301.03	0.00	0.00	0.00
16,100.03	89.64	91.54	5,667.11	36.94	10,400.92	10,400.98	0.00	0.00	0.00
16,200.03	89.64	91.54	5,667.74	34.25	10,500.88	10,500.94	0.00	0.00	0.00
16,300.03	89.64	91.54	5,668.36	31.56	10,600.84	10,600.89	0.00	0.00	0.00
16,400.03	89.64	91.54	5,668.99	28.87	10,700.81	10,700.85	0.00	0.00	0.00
16,401.74	89.64	91.54	5,669.00	28.82	10,702.51	10,702.55	0.01	0.00	0.01
PBHL/TD									

Planning Report

Database:	EDM 5000.1 Seideltech	**Local Co-ordinate Reference:**	Well LYBROOK FED COM 23-6-19 GP 001H
Company:	Coleman Oil & Gas	**TVD Reference:**	KB 26Ft @ 7074.00ft (TBD)
Project:	Sandoval County, NM	**MD Reference:**	KB 26Ft @ 7074.00ft (TBD)
Site:	23N 06W SEC 19	**North Reference:**	Grid
Well:	LYBROOK FED COM 23-6-19 GP 001H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	Design #1		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LFC GP 1H FTP - plan misses target center by 0.37ft at 6045.93ft MD (5604.00 TVD, 306.41 N, 350.63 E) - Point	0.00	0.00	5,604.00	306.78	350.64	1,900,343.64	1,271,660.28	36.216210	-107.500106
LFC GP 1H PBHL - plan hits target center - Point	0.00	360.00	5,669.00	28.82	10,702.51	1,900,065.67	1,282,012.13	36.215808	-107.465008

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,460.99	1,460.00	OjoAlamo			
1,560.36	1,558.00	Kirtland			
1,759.14	1,754.00	Fruitland			
2,033.97	2,025.00	Pi ctured Cliffs Ss			
2,124.23	2,114.00	Lewis Sh			
2,915.26	2,894.00	Chacra Ss			
3,555.19	3,525.00	Cliff House Ss			
3,584.60	3,554.00	Menefee			
4,334.23	4,298.00	Point Lookout Ss			
4,530.37	4,494.00	Mancos Sh			
5,442.10	5,362.00	El Vado BSs			
5,737.91	5,538.00	Gallup Ss			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
1,000.00	1,000.00	0.00	0.00	Build 2°/100 DLS
1,479.02	1,476.79	26.75	-29.68	Hold Tangent
3,679.33	3,646.41	271.92	-301.70	Drop 1°/100 DLS
4,637.38	4,600.00	325.42	-361.06	Vertical Point
4,925.18	4,887.81	325.42	-361.06	KOP, Build 8°/100 DLS
6,045.69	5,603.99	306.42	350.38	Landing Tgt
16,401.74	5,669.00	28.82	10,702.51	PBHL/TD

Attachment To Application For Permit To Drill.
Drilling program

Coleman Oil & Gas

Lybrook Fed Com 23-6-19 GP 001H

Horizontal – Gallup Oil and Gas Well
Surface Location: 977' FNL – 251' FEL
Section 19, T23N, R6W
Ungraded GL Elev = 7048'
Lat. = 36.215355 deg N
Long. = -107.501281 deg W
Bottom Hole Location: 660' FNL – 100' FEL
Section 21, T23N, R6W
Lat. = 36.215808 deg N
Long. = -107.465008 W
NAD1983
Sandoval County, New Mexico

Drilling program written in compliance with onshore Oil and Gas Order No. 1
(001 III.D.3, effective May 2007) and Onshore Order No. 2 Dated November 18,1988

Driving Directions to Location:

From the intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM, travel Southward on US Hwy 64 to Mile Marker 101 on left-hand side; Go left (Southward) on well access road and take the immediate left (Easterly) on well access road for 0.9 miles, Stay left to the newly staked location.

1. **ESTIMATED TOPS FOR IMPORTANT GEOLOGICAL FORMATIONS**

Formation Tops	Surface (TVD)	MD
Nacimiento	0	0
Build 2˚/100'	**1,000**	**1,000**
Ojo Alamo	1,459	1,461
Hold Tangent	**1,477**	**1,479**
Kirtland	1,557	1,560
Fruitland Coal	1,753	1,760
Pictured Cliffs	2,024	2,034
Lewis	2,113	2,124
Chacra	2,893	2,915
Cliff House	3,524	3,555
Menefee	3,553	3,585
Drop 1˚/100'	**3,646**	**3,679**
Point Lookout	4,297	4,334
Mancos	4,493	4,530
Hold Vertical Drop to KOP	**4,600**	**4,637**
KOP	**4,888**	**4,925**
El Vado	5,361	5,442
Gallup Ss	5,537	5,738
Gallup Ss (TARGET) 7" CSG PT	**5,604**	**6,046**
FTP	5,604	6,046
PBHL/TD	5,669	16,402
Total Depth	**5,669'**	**16,402**

Drilling Plan

Drill 12 ¼" hole to 500' then set 9 5/8" casing. Drill 8-3/4" vertical hole with fresh water mud system to 2˚/100' build point at ~ 1,000'. Build angle to 1,479' MD/ 1,477' TVD and hold tangent to 3,679' MD/ 3,646 TVD, then drop 1˚/100' back to vertical at 4,637' MD/ 4,600' TVD. Drill vertical to KOP at 4,925' MD/ 4,888' TVD, then build 90˚ turn to casing point at 6,046' MD/ 5,604' TVD. Drill 6-1/8" lateral hole to a TD of 16,402' MD/TVD 5,669'and set 4-1/2" liner. Plan to cement all casing strings to surface and liner back to 7" casing.

2. **ANTICIPATED DEPTHS OF PROSPECTIVE OIL GAS AND OTHER HYDROCARBONS**

Primary objective is the Gallup Sandstone formation encountered first at 5,537' TVD.

Substance	Formation	Top Surface (TVD)
Water/Gas	Fruitland Coal	1,753
Oil/Gas	Pictured Cliffs	2,024
Oil/Gas	Cliffhouse	3,524
Gas	Menefee	3,553
Gas	Point Lookout	4,297
Oil/Gas	Mancos	4,493
Oil/Gas	El Vado	5,361
Oil/Gas	Gallup	5,537

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

3. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL EQUIPMENT

A. Wellhead Equipment 5,000 PSI System (See Exhibit A)

1. 9 5/8" slip-on / welded x 11" 5,000 psi casing head.
2. One 11" 5,000 psi WP double-ram preventer with one (1) set of blind rams on top & one (1) set of pipe rams on bottom complete with hand wheels and extension arms.
3. The choke and kill lines will be connected to outlets between the bottom and top rams, utilizing either the ram body outlet or a drilling spool with side outlets for 2" kill line and minimum 3" choke line
4. One 11" x 5,000 psi WP Hydril GK (or equivalent) annular preventer.
5. Accumulator - Four Station Koomey (or equivalent) 120 gallon closing unit with remote, backup. The accumulator shall have sufficient capacity to open the hydraulically-controlled gate valve and close all rams plus the annular preventer, with a 50% safety factor and retain a minimum of 200 psi above the precharge on the closing manifold without the use of the closing unit pumps. The reservoir capacity shall be double the usable accumulator capacity, and the fluid level shall be maintained at the manufacturer's recommendations.
6. The BOP system shall have two (2) independent power sources (electric and air) available for powering the closing unit pumps. Sufficient nitrogen bottles are suitable as a backup power source only, and shall be recharged when the pressure falls below manufacturer's specification.
7. A valve shall be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve shall be maintained in the open position and shall be closed only when the power source for the accumulator system is inoperative.

All BOP equipment will be hydraulically operated with controls accessible both on the rig floor.

The wellhead BOP equipment will be nippled-up on the 9-5/8" x 11" 5,000 psi WP casing head prior to drilling out from under surface casing. All ram preventers and related equipment will be tested to 5,000 psi for 10 minutes. Annular preventers will be tested to 50% of rated working pressure for 10 minutes. Surface casing will be tested to 70% of internal yield pressure. All preventers and surface casing will be tested before drilling out of surface casing. BOP equipment will be tested every 14 days, after any repairs are made to the BOP equipment, and after the BOP equipment is subjected to pressure. Annular preventers will be functionally operated at least once per week. Pipe rams will be activated daily and blind rams shall be activated each trip or at least weekly. The New Mexico Oil & Gas Conservation Commission and the BLM will be notified 24 hours in advance of testing of BOPE and 9 5/8" slip-on / welded x 11" 5,000 psi casing head.

4. PROPOSED BIT AND CASING PROGRAM

A. Bit Program
26" Conductor = surface to 60'
12-1/4" Surface Hole = Surface to 500'
8-3/4" Intermediate = Surface to 6,046' MD
6-1/8" Production Liner = 5,946' to 16,402' MD

B. Casing Program – all casing stings are new casing

Casing & Hole Size	Weight	Grade	Coupling	Setting Depth (MD)	Comments
16" Conductor (26")	65 ppf	H-40	ST&C	0' - 60-ft BGL	New casing.
9-5/8" (12 1/4")	36 ppf	K-55	LT&C	0' - 500'	New casing. Cement to surface.
7" (8-3/4")	26 ppf	J55	LT&C	0' – 6,046'	New Casing. Cement to surface.
4-1/2" (6-1/8")	11.6 ppf	P110	LT&C	5,946' – 16,402'	New Casing Cement back to Intermediate

Casing strings below the conductor casing will be tested to .22 psi per foot of

casing string length or 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield.

Minimum casing design factors used:	Collapse -	1.125
	Burst -	1.0
	Jt. Strength -	1.60

5. PROPOSED CEMENTING PROGRAM

The proposed cementing program has been designed to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones, abnormally pressured zones, and any prospectively valuable deposits of minerals. Any isolating medium other than cement shall receive approval prior to use. The casing setting depth shall be calculated to position the casing seat opposite a competent formation which will contain the maximum pressure to which it will be exposed during normal drilling operations. All indications of useable water shall be reported. Actual volumes will be calculated and determined by conditions onsite. All cement slurries will meet or exceed minimum BLM and New Mexico Oil Conservation Division requirements. Slurries used will be the slurries listed or equivalent slurries depending on service provider selected for cement operations. Actual cement yields may change depending on slurries selected. All waiting on cement times shall be a minimum of 8 hours or adequate to achieve minimum of 500 psi compressive strength at the casing shoe prior to drilling out.

a) The proposed cementing program is as follows:

Top plugs shall be used to reduce contamination of cement by displacement fluid. A bottom plug or other acceptable technique, such as a pre-flush fluid, inner string cement method, etc. shall be utilized to help isolate the cement from contamination by the mud fluid being displaced ahead of the cement slurry.

Conductor Casing Single Stage Job (0-60')
100 sx of Type I Neat 16 ppg (1.38 cuft/sx)

Surface Casing Single Stage Job – (0-500'):
Excess – 125% over gauge hole – 12-1/4" hole and 9-5/8" casing (0.3132 cf/ft)
Top of Cement - Surface

Lead – 60 sx (179 cf)– 11.5 ppg, conventional cement containing:
Cement – Halliburton VARICEM CEMENT
0.125# Poly-E-Flake
0.25# Kwick Seal
Yield – 2.989 cuft/sx

Tail - 100 sx (183 cf) – 13.5 ppg, conventional cement containing:
Cement – Halliburton VARICEM CEMENT
0.125# Poly-E-Flake
0.25# Kwick Seal
Yield – 1.831 cuft/sx

Compressive strength: 24 hr – 1000+ psi

Total sacks of cement pumped = 160 sx (360 cf)

Intermediate – Single Stage Job (0-6,046'):
Excess – 100% over gauge hole – 8-3/4" hole and 7" casing (0.1503 ft3/ft)
Top of Cement – Surface.

1st Stage

Lead - (3,500' – Surf'): 350 sx (1,052 cf) – 11.5 ppg, conventional cement containing:
Cement – Halliburton VARICEM CEMENT
0.125# Poly-E-Flake
0.25# Kwick Seal
Yield – 2.989 cuft/sx

Compressive strength: 24 hr – 1000+ psi

Tail - (6,046' – 3,500'): 382 sx (765 cf) – 12.0 ppg, conventional cement containing:
Cement – Halliburton HALCEM
0.05% sa-1015
5 LBM Kol-Seal
0.125 Poly-E-Flake
Yield – 1.97 ft3/sx,
Compressive strength: 24 hr – 1500+ psi

Total sacks of cement pumped = 732 sx (1,818 cf).

Production Liner – Single Stage Job (5,946' - 16,402'):
Excess – 50% over gauge hole – 6-1/8" hole and 4-1/2" casing (0.0942 ft3/ft)
Top of Cement – Liner Hanger

561 sx (1,478 cf) – 11.5 ppg, conventional cement containing:
Cement – Halliburton VARICEM CEMENT
0.125# Poly-E-Flake
0.25# Kwick Seal
Yield – 2.63 cuft/sx
Compressive strength: 24 hr – 1000+ psi

6. PROPOSED DRILLING FLUIDS PROGRAM

a) Surface through intermediate casing point

Hole Size (in)	TVD/MD (ft)	Mud Type	Density (lb/gal)	Viscosity (sec/qt)	Fluid Loss (cc)
12 1/4"	0-500'	Fresh Water	8.3-9.4	28-42	NC
8-3/4"	500'-5,604'/6,046'	Fresh Water LSND	8.3-9.5	40 – 50	6-8.5

b) Intermediate casing point to TD.

Hole Size (in)	TVD/MD (ft)	Mud Type	Density (lb/gal)	Viscosity (sec/qt)	Fluid Loss (cc)
6-1/8"	5,604'/6,046' – 5,670'/16,402'	Fresh Water LSND	8.3-9.5	15-25	6 - 8

c) There will be sufficient mud on location to control a blowout should one occur. Mud flow and volume will be monitored both visually and with electronic pit volume totalizers. Mud tests shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH.

d) A closed-loop system will be used to recover drilling fluid and dry cuttings in both phases of the well and on all hole intervals. Above-ground tanks will be utilized to hold cuttings and fluids for rig operations. A frac tank will be on location to store fresh water. Drill cuttings will be dried and stored onsite until they are hauled to an NMOCD approved facility for disposal. Any wastewater not utilized in the drilling process will be disposed of properly at TnT Environmental Disposal facility or any other approved disposal facility.

7. TESTING, CORING and LOGGING

a) Drill Stem Testing - None anticipated
b) Coring - None anticipated.
c) Mud Logging – Mud loggers will be on location from surface casing point to TD.
d) Logging Program: 8-3/4" section only. CBL/GR for Depth Control

8. ABNORMAL PRESSURES & HYDROGEN SULFIDE

The maximum anticipated bottom hole pressure is +/- 2,000 psi based on a 9.0 ppg at 5,670' (Total Depth - TVD). No abnormal pressure or temperatures are anticipated.

No hydrogen sulfide gas is anticipated, however, if H_2S is encountered, the guidelines in Onshore Order No. 6 will be followed.

9. COMPLETION AND PRODUCTION PLANS

Frac: Lateral will be hydraulically fractured in approximately 65 plug and perf stages with approximately 90,000 bbls of gelled water in 70 Quality Nitrogen Foam and 8,400,000 lbs of proppant (actual design will be modified once the lateral has been drilled, cased and cemented).

Flowback: Well will be flowed back through tubing and captured at the surface via sand separators, flowback manifolds, flowback tanks and related surface equipment, designed to minimize emissions and waste.

Production: Well will be produced up production tubing via gas lift into the permanent production and storage facilities.

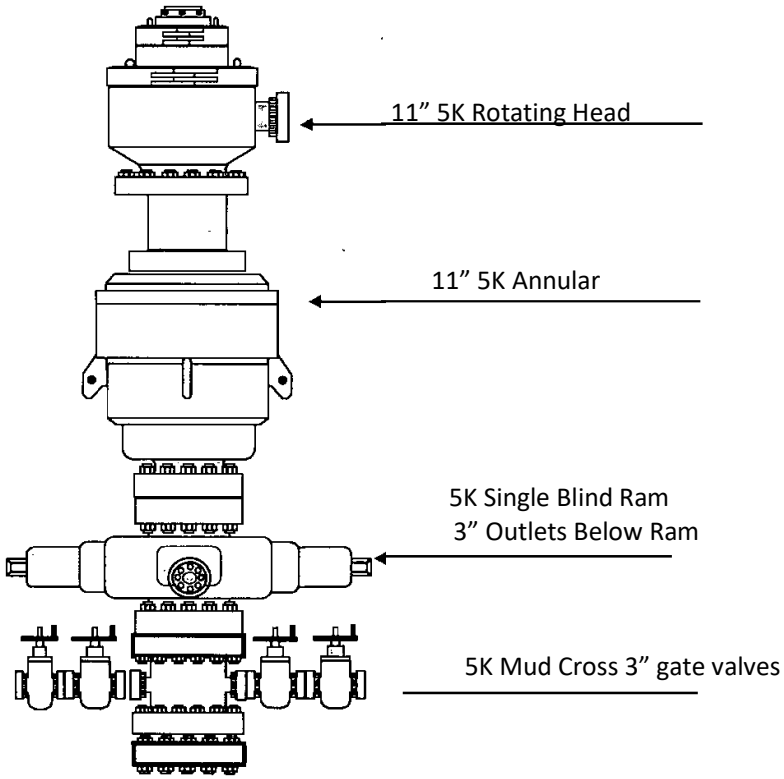
10. ANTICIPATED START DATE AND DURATION OF OPERATIONS

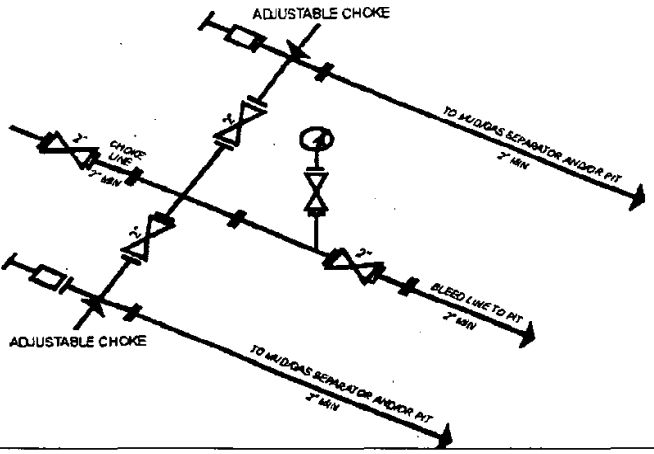
Drilling is estimated to commence on June 15, 2024. It is anticipated that completion operations will begin within 30 days after the well has been drilled depending on fracture treatment schedules with various pumping service companies.

It is anticipated that the drilling of this well will take approximately 17 days.

Exhibit A

WELLHEAD BLOWOUT CONTROL SYSTEM





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: __, Coleman Oil & Gas, Inc **OGRID:** 24561 **Date:** 02/04/2025

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
Lybrook Fed Com 23-6-19 EV 001H	TBD	A-19-23N-06W	957 FNL x 251 FEL	200	2000	20
Lybrook Fed Com 23-6-19 EV 002H	TBD	A-19-23N-06W	996 FNL x 252 FEL	200	2000	20
Lybrook Fed Com 23-6-19 GP 001H	TBD	A-19-23N-06W	977 FNL x 251 FEL	156	1550	10
Lybrook Fed Com 23-6-19 GP 002H	TBD	A-19-23N-06W	1015 FNL x 252 FEL	156	1550	10

IV. Central Delivery Point Name: Lybrook Fed Com 23-6-19 [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
Lybrook Fed Com 23-6-19 EV 001H	TBD	4/30/2025	5/15/2025	7/05/2025	8/15/2025	8/15/2025
Lybrook Fed Com 23-6-19 EV 002H	TBD	05/16/2025	6/01/2025	7/15/2025	8/20/2025	8/20/2025
Lybrook Fed Com 23-6-19 GP 001H	TBD	06/02/2025	06/15/2025	07/25/2025	08/25/2025	08/25/2025
Lybrook Fed Com 23-6-19 GP 002H	TBD	06/16/2025	07/01/2025	08/05/2025	08/30/2025	08/30/2025

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: Arleen Smith
Printed Name: Arleen Smith
Title: Regulatory
E-mail Address: arleen@walsheng.net
Date: 02/04/2025
Phone: 505-327-4892

OIL CONSERVATION DIVISION **(Only applicable when submitted as a standalone form)**
Approved By:
Title:
Approval Date:
Conditions of Approval:

COLEMAN RESOURCES - Operator

NGMP for New Drill HZ Mancos Shale Gas and/or Oil wells
Lybrook Federal Com 23-6-19 El Vado and Gallup 4-well pad
Updated January, 2025

In compliance with Section VI. Separation Equipment:

The operator will select separation equipment for the maximum anticipated throughput and pressure to optimize gas and liquid capture. Separation equipment is sized according to manufacturer's design specifications. Separation vessels are built following the A.S.M.E. section VII division 1 codes for pressure vessel design, fabrication, inspection, testing and certification. Anticipated well pressures and production rates are evaluated to select separation equipment according to the equipment's designed operating pressure and throughput.

After completion, the operator utilizes flowback equipment, including separators, to manage wellbore fluids and solids during the initial separation period. After the initial flowback period is complete the operator utilizes iterative facility separation equipment to ensure that optimal separation is achieved.

In compliance with Section VII. Operational Practices 19.15.27.8 NMAC A through F:

A. The operator will maximize the recovery of natural gas and minimize the amount of gas vented or flared when technically and safely feasible as further described and detailed within the following subsections (B-F of 19.15.27.8). In all cases where natural gas venting and flaring requires regulatory reporting, reporting will be submitted accurately and within the required time frames.
B. Venting and flaring during drilling operations:
    a. The operator drills wells in the area by utilizing a balanced mud to safely drill the wellbore. This technique prevents gas from coming to surface during the drilling process. If there is an emergency or malfunction and natural gas does come to surface the natural gas will be captured and routed to sales if technically and safely feasible.
C. Venting and flaring during completion or recompletion operations:
    a. The operator's facilities are designed to handle the maximum throughput and pressures from the newly drilled and completed wellbores. The amount of gas vented and flared will be minimized when technically and safely feasible. During initial flowback and initial separation flowback the operator will utilize contracted flowback equipment, including separators, to manage wellbore fluids and solids. The initial flowback period will be minimized and flow will be sent to separation equipment as soon as possible to reduce the amount of gas that is vented to atmosphere. The natural gas will be utilized on site as needed for fuel gas and natural gas will be sold.

D. Venting and flaring during production operations:
    a. The operator's facilities are designed to handle the maximum throughput and pressures from producing wellbores. The amount of gas vented and flared will be minimized when technically and safely feasible.

Operations will effectively manage the following scenarios to minimize the quantity of natural gas that is vented or flared:

(a) If there is an emergency or malfunction vented or flared natural gas will be reported, if required, and the emergency or malfunction will be resolved as soon as technically and safely feasible.
(b) If the wellbore needs to be unloaded to atmosphere the operator will not vent the well after the well has achieved a stabilized rate and pressure. The operator will remain on site during unloading. Plunger lift systems will be optimized to reduce the amount of natural gas venting. Downhole maintenance, such as workovers, swabbing, etc. will only be conducted as needed and best management practices will be utilized to reduce venting of natural gas.
(c) The operator will minimize the amount of time that natural gas is vented to atmosphere from gauging and sampling a storage tank or low-pressure vessel, automatic tank gauges will be the primary means of gauging. The formation is only anticipated to produce water and therefore tank emissions are anticipated to be negligible.
(d) The operator will reduce the amount of time needed for loading out liquids from a storage tanks or other low-pressure vessels whenever feasible. Operations will always utilize the water transfer and/or LACT systems and when available. Water loading emissions are anticipated to be negligible.
(e) Equipment will be repaired and maintained routinely to minimize the venting or flaring of natural gas. Repairs and maintenance will be conducted in a manner that minimizes the amount of natural gas vented to atmosphere through the isolation of the equipment that is being repaired or maintained.
(f) Electric controllers and pumps will be installed to replace pneumatic controllers whenever feasible. Pneumatic controllers and pumps will be inspected frequently to ensure that no excess gas is vented to atmosphere.
(g) No dehydration or amine units are anticipated to be set on location.
(h) Compressors, compressor engines, turbines, flanges, connectors, valves, storage tanks, and other low-pressure vessels and flanges will be routinely inspected to ensure that no excess venting occurs outside of normal operations.
(i) Regulatory required testing, such as bradenhead and packer testing will be performed in a manner that minimizes the amount of natural gas vented to atmosphere.
(j) If natural gas does not meet gathering pipeline specifications gas samples will be collected twice per week to determine when pipeline specification gas content has been achieved. During this time frame gas will be flared and not vented to atmosphere. Natural gas that meets

pipeline specifications will be sold via pipeline and natural gas that can be utilized for fuel gas will be used during this time.

(k) If pipeline, equipment, or facilities need purged of impurities gas losses will be minimized as much as technically and safely feasible.

E. Performance standards:
   a. The production facilities are designed to handle the maximum throughput and pressures from producing wellbores and will be designed to minimize waste. The amount of gas vented and flared will be minimized when technically and safely feasible.
   b. All tanks that are routed to a control device will have an automatic gauging system to minimize the amount of vented natural gas.
   c. If a flare stack is installed or replaced it will be equipped with an automatic ignitor or continuous pilot. The flare stack will be properly sized and designed to ensure proper combustion efficiency. The flare stack will be located 100 feet away from the nearest wellhead or storage tank.
   d. AVO inspections will be conducted weekly for the year after completion and for all wells producing greater than 60,000 cubic feet of natural gas daily. The AVO inspection will include all components, including flare stacks, thief hatches, closed vent systems, pumps, compressors, pressure relief devices, valves, lines, flanges, connectors, and associated pipeline to identify any leaks and releases by comprehensive auditory, visual, and olfactory inspection. The AVO inspection records will be maintained for 5 years which will be available at the department's request. Identified leaks will be repaired as soon as feasible to minimize the amount of vented natural gas.

F. Measurement or estimation of vented and flared natural gas.
   a. The volume of natural gas that is vented, flared or consumed for beneficial use will be measured when possible, or estimated, during drilling, completions, or production operations.
   b. Equipment will be installed to measure the volume of natural gas flared for all APD's issued on facilities that will have an average daily gas rate greater than 60,000 cubic feet of natural gas. Measurement equipment will conform to API MPMS Chapter 14.10 regulations. The measurement equipment will not have a manifold that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing the measurement equipment. If metering is not practical then the volume of gas will be estimated.

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

SUPO Data Report
08/12/2025

APD ID: 10400094254
Submission Date: 12/02/2024
Operator Name: COLEMAN OIL & GAS INCORPORATED
Well Name: LYBROOK FED COM 23-6-19 GP
Well Number: 001H
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:

Access_Road_Map_20241112090104.pdf

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

ROW ID(s)

ID:

Do the existing roads need to be improved? YES

Existing Road Improvement Description: The existing road requires upgrades including culverts.

Existing Road Improvement Attachment:

Access_Easement_Survey_20231102131742.pdf
Road_Map_20241112075409.pdf

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

New_Access_Road_Map_20241112091443.pdf

New road type: RESOURCE

Length: 268 Feet
Width (ft.): 50

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

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: BMPs for dust abatement and erosion control will be utilized along the road to reduce fugitive dust for the life of the project. Water applications using a rear-spraying truck or other suitable means, will be the primary method of dust suppression along the road. Any additional erosion-control practices, such as the application of magnesium chloride, organic-based compounds, or polymer compounds

Operator Name: COLEMAN OIL & GAS INCORPORATED

Well Name: LYBROOK FED COM 23-6-19 GP **Well Number:** 001H

to the road, will be included in the COAs attached to the approved APD.

New road access plan or profile prepared? N

New road access plan

Access road engineering design? N

Access road engineering design

Turnout? Y

Access surfacing type: GRAVEL

Access topsoil source: ONSITE

Access surfacing type description:

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: 6

Access other construction information:

Access miscellaneous information:

Number of access turnouts: 4

Access turnout map:

Temporary_Use_Area_20241111111006.pdf

Drainage Control

New road drainage crossing: CULVERT

Drainage Control comments: The proposed access road would be constructed within in 14-foot wide corridor to accommodate clearing, cut-and-fill slopes, and drainage ditches.
Road Drainage Control Structures (DCS) description: The proposed access road would be constructed within in 14-foot wide corridor to accommodate clearing, cut-and-fill slopes, and drainage ditches.
Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Existing Well map Attachment:

Lybrook_Fed_Com_23_6_19_GP_001H_Existing_Wells_20241125111443.pdf

Operator Name: COLEMAN OIL & GAS INCORPORATED

Well Name: LYBROOK FED COM 23-6-19 GP **Well Number:** 001H

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

Submit or defer a Proposed Production Facilities plan? DEFER

Estimated Production Facilities description: Production facilities for the Lybrook Fed Com 23-6-19 GP #001H would be located within a 240-by 80-foot facility area on the north-northwest end of proposed well pad to allow for maximum interim reclamation and revegetation of the well location.

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: RAW PRODUCED

Water source use type: SURFACE CASING
INTERMEDIATE/PRODUCTION CASING
STIMULATION

Source latitude: 36.22609 **Source longitude:** -107.50803

Source datum: NAD83

City:

Water source permit type: PRIVATE CONTRACT

Water source transport method: PIPELINE

Source land ownership: OTHER **Describe land ownership:** Existing 6" Produced Wate

Source transportation land ownership: OTHER **Describe transportation land ownership:** Existing 6"

Water source volume (barrels): 124133.878815 **Source volume (acre-feet):** 16

Source volume (gal): 5213616

Water source and transportation

Water_Source_Map_20230927100655.pdf
Lybrook_Fed_Com_23_6_19_GP_001H_Water_Supply_Map_20250129135334.pdf
Water_Supply_Map_Community_Water_COOP_20250220124706.pdf
Water_Supply_Map_Smelser_Water_Hole_20250220124720.pdf

Water source comments:

New water well? N

New Water Well Info

Operator Name: COLEMAN OIL & GAS INCORPORATED

Well Name: LYBROOK FED COM 23-6-19 GP **Well Number:** 001H

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

Well target aquifer:

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

Aquifer comments:

Aquifer documentation:

Well 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: All surface infrastructure would be constructed utilizing native borrow within the permitted area to create a balanced working surface. Surfacing material of fill material, such as sandstone, gravel, pit run, or road base would be used if needed and economically viable and would be obtained from an approved location. Coleman will maximize the use of native material within the proposed project area to reduce or eliminate the need to haul in foreign materials. Material may be imported and used for any of the following reasons: low water crossings (pit run and road base), road surfacing (road base, gravel or sandstone), erosion control (riprap cobble stone), barricades (boulders), under and surrounding equipment (gravel), and filling soft or muddy areas (sandstone, pit run, road base or gravel). A map of borrow pit location where Coleman Oil & Gas may obtain material can be found in Appendix F.

Construction Materials source location

Lybrook_Fed_Com_23_6_19_GP__001H_Constuction_Material_Map_20241125111517.pdf

Section 7 - Methods for Handling

Waste type: GARBAGE

Waste content description: All garbage and trash would be placed in enclosed metal trash containers. The trash and garbage would be hauled off site and dumped in an approved landfill, as needed.
Amount of waste:

Waste disposal frequency : One Time Only

Safe containment description: Metal trash containers

Safe containmant attachment:

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

Operator Name: COLEMAN OIL & GAS INCORPORATED

Well Name: LYBROOK FED COM 23-6-19 GP **Well Number:** 001H

Disposal type description:

Disposal location description: Approved Disposal Facility Site

Waste type: SEWAGE

Waste content description: Portable toilets would be provided and maintained as needed during construction, drilling and completions operations.

Amount of waste:

Waste disposal frequency : One Time Only

Safe containment description: Portable toilets

Safe containmant attachment:

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

Disposal type description:

Disposal location description: Approved Disposal Facility Site

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 1. Drilling operations would utilize a closed-loop system. Drilling of the horizontal laterals would be accomplished with water-based mud. Oil based mud could be used contingent on formation properties encountered. All cuttings would be placed in roll-off bins and hauled to a commercial disposal facility or land farm. Coleman Oil & Gas would follow Onshore Oil and Gas Order No. 1 regarding the placement, operation, and removal of closed-loop systems. No blow pit would be used. 2. Closed-loop tanks would be adequately sized for containment of all fluids.

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?

Cuttings area liner

Operator Name: COLEMAN OIL & GAS INCORPORATED

Well Name: LYBROOK FED COM 23-6-19 GP **Well Number:** 001H

Cuttings area liner specifications and installation description

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

Lybrook_Federal_23_6_19_Production_Facility_Layout_20250116144133.pdf

Comments: Topsoil removal, storage, and protection is described in detail in the Surface Reclamation Plan (Appendix A). During construction, the proposed well pad would be leveled to provide adequate space and a level working surface for vehicles and equipment. Excavated materials from cuts would be used on fill portions of the well pad to level the surface. The approximate cuts, fills, and well pad orientation is shown on the cut/fill worksheet and cross section diagrams in the survey plats found in Appendix C. Additionally, please see Appendix G for the proposed Well Pad Facility Diagram showing long term well pad layout, reclamation areas, and disturbance acreage; Well Pad Drilling Diagrams showing the location and orientation of the drill rig; and the Well Pad Completion Diagram, showing the location and orientation of the completion equipment. Drilling of the proposed well would require an expansion of 500-foot by 500-foot well pad (4.85 acres). A 50-foot construction zone is proposed on the west, north and east sides of the proposed pad. This entire area would be utilized during construction, setting of production equipment, drilling and completion phases.

Section 10 - Plans for Surface

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: Lybrook Fed Com 23-6-19 GP, Lybrook Fed Com 23-6-19 EV
Multiple Well Pad Number: 002H, 001H, 002H

Recontouring

Lybrook_Fed_Com_23_6_19_GP__001H_Constuction_Material_Map_20241125111821.pdf

Drainage/Erosion control construction: The BLM representative and the Coleman Oil & Gas representative would work in collaboration to develop site-specific erosion control or water management features and to identify installation locations. Potential erosion control or water management features that may be used include (but are not limited to) water bars or rolling dips for roads, sediment basins or sediment traps, check dams, silt fencing, bellholes upstream of culverts, outlet protection for culverts, erosion control blankets, straw bales, and straw wattles. A culvert would be installed at the intersection with the existing roadway to allow for sufficient drainage within the disturbance. A minimum of one (1) 24-inch culvert would be placed at the topographically low area that intersects the new access road. Additional culverts would be added every 200 feet or as needed.

Drainage/Erosion control reclamation: During interim reclamation, areas of the project that are not needed for long term well operations and maintenance will be recontoured to re-establish disturbed terrain and blend into the surrounding landscape. The natural drainage network would be re-established as practicable with necessary diversions and silt traps around the long-term project footprint.

Operator Name: COLEMAN OIL & GAS INCORPORATED

Well Name: LYBROOK FED COM 23-6-19 GP **Well Number:** 001H

Well pad proposed disturbance (acres): 7.61	**Well pad interim reclamation (acres):** 4.29	**Well pad long term disturbance (acres):** 2.79
Road proposed disturbance (acres): 0.18	**Road interim reclamation (acres):** 0.1	**Road long term disturbance (acres):** 0.08
Powerline proposed disturbance (acres): 0	**Powerline interim reclamation (acres):** 0	**Powerline long term disturbance (acres):** 0
Pipeline proposed disturbance (acres): 4.58	**Pipeline interim reclamation (acres):** 4.58	**Pipeline long term disturbance (acres):** 0
Other proposed disturbance (acres): 1.183	**Other interim reclamation (acres):** 0.333	**Other long term disturbance (acres):** 0.85
Total proposed disturbance: 13.553	**Total interim reclamation:** 9.302999999999999	**Total long term disturbance:** 3.72

Disturbance Comments:

Reconstruction method: For cut and fill slopes, initial seedbed preparation will consist of pushing (dozer)/excavation (excavator)/hauling (belly scraper) the unneeded fill slope material and placing it within the cut slopes. Natural rolling contours would be implemented to break up the surface and aid in removing signs of the sharp well pad corners once vegetation established. Emphasis would be placed on restoration of the existing drainage patterns and landforms to preconstruction conditions, to the extent practicable. Within areas that would be reseeded, stockpiled topsoil would be evenly redistributed prior to final seedbed preparation. Seedbed preparation within compacted areas will be ripped to a minimum depth of 18 inches, with a maximum furrow spacing of 2 feet. Where practicable, ripping will be conducted in two passes at perpendicular directions. If large clumps/clods result from the ripping process, disking would be conducted perpendicular to slopes in order to provide terracing and minimize runoff and erosion. Final seedbed preparation would consist of raking or harrowing the spread topsoil prior to seeding to promote a firm (but not compacted) seedbed without surface crusting. Seedbed preparation may not be necessary for topsoil storage piles or other areas of temporary seeding.

Topsoil redistribution: The upper six inches of topsoil (if available) would be stripped following vegetation mulching. Topsoil would not be mixed with the underlying subsoil horizons and would be stockpiled as a berm/windrow along the interior perimeter of the construction buffer zone. Topsoil and sub-surface soils would be replaced in the proper order, prior to final seedbed preparation. Redistribution of topsoil shall not be done when the ground or topsoil is wet. Vehicle/equipment traffic would not be allowed to cross topsoil stockpiles. If topsoil is stored for a length of time such that nutrients are depleted from the topsoil, amendments would be added to the topsoil as advised by the Coleman Oil & Gas environmental scientist or appropriate agent/contractor.

Soil treatment: Soil amendments would be added to the topsoil, if needed, as advised by the Coleman Oil & Gas environmental scientist or an appropriate surface managing agency.
Existing Vegetation at the well pad: Based on observations made during the pre-disturbance site visit, it has been determined that the vegetation community which best represents the proposed project area is classified as Pinyon and Juniper Woodland community.
Existing Vegetation at the well pad

Existing Vegetation Community at the road: Based on observations made during the pre-disturbance site visit, it has been determined that the vegetation community which best represents the proposed project area is classified as Pinyon and Juniper Woodland community.
Existing Vegetation Community at the road

Existing Vegetation Community at the pipeline: Based on observations made during the pre-disturbance site visit, it has been determined that the vegetation community which best represents the proposed project area is classified as Pinyon and Juniper Woodland community.
Existing Vegetation Community at the pipeline

Existing Vegetation Community at other disturbances: Based on observations made during the pre-disturbance site visit, it has been determined that the vegetation community which best represents the proposed project area is classified as Pinyon and Juniper Woodland community.
Existing Vegetation Community at other disturbances

Operator Name: COLEMAN OIL & GAS INCORPORATED

Well Name: LYBROOK FED COM 23-6-19 GP **Well Number:** 001H

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

Seed Table

Seed type: ANNUAL GRASS **Seed source:** COMMERCIAL

Seed name: Indian Ricegrass

Source name: **Source address:**

Source phone:

Seed cultivar:

Seed use location: OTHER,WELL PAD

PLS pounds per acre: 3 **Proposed seeding season:** SPRING

Seed type: ANNUAL GRASS **Seed source:** COMMERCIAL

Seed name: Western Wheatgrass

Source name: **Source address:**

Source phone:

Seed cultivar:

Seed use location: OTHER,WELL PAD

PLS pounds per acre: 2 **Proposed seeding season:** AUTUMN

Seed type: SHRUB **Seed source:** COMMERCIAL

Seed name: Mountain Mahogany

Source name: **Source address:**

Source phone:

Seed cultivar:

Seed use location: OTHER,WELL PAD

Operator Name: COLEMAN OIL & GAS INCORPORATED

Well Name: LYBROOK FED COM 23-6-19 GP **Well Number:** 001H

PLS pounds per acre: 2 **Proposed seeding season:** SPRING

Seed type: ANNUAL GRASS **Seed source:** COMMERCIAL

Seed name: Bottlebrush suirreltrain

Source name: **Source address:**

Source phone:

Seed cultivar:

Seed use location: OTHER,WELL PAD

PLS pounds per acre: 3 **Proposed seeding season:** AUTUMN

Seed type: ANNUAL GRASS **Seed source:** COMMERCIAL

Seed name: Prairie Junegrass

Source name: **Source address:**

Source phone:

Seed cultivar:

Seed use location: OTHER,WELL PAD

PLS pounds per acre: 2 **Proposed seeding season:** AUTUMN

Seed type: OTHER **Seed source:** COMMERCIAL

Seed name: Scarlet Globemallow

Source name: **Source address:**

Source phone:

Seed cultivar:

Seed use location: OTHER,WELL PAD

PLS pounds per acre: 0 **Proposed seeding season:** SPRING

Seed Summary

Total pounds/Acre: 12

Seed Type	Pounds/Acre
OTHER	0
SHRUB	2
ANNUAL GRASS	10

Seed reclamation

Operator Contact/Responsible Official

First Name: **Last Name:**

Phone: **Email:**

Seedbed prep: For cut and fill slopes, initial seedbed preparation will consist of pushing (dozer)/excavation (excavator)/hauling (belly scraper) the unneeded fill slope material and placing it within the cut slopes. Natural rolling contours would be implemented to break up the surface and aid in removing signs of the

Operator Name: COLEMAN OIL & GAS INCORPORATED

Well Name: LYBROOK FED COM 23-6-19 GP **Well Number:** 001H

sharp well pad corners once vegetation established. Emphasis would be placed on restoration of the existing drainage patterns and landforms to preconstruction conditions, to the extent practicable. Within areas that would be reseeded, stockpiled topsoil would be evenly redistributed prior to final seedbed preparation. Seedbed preparation within compacted areas will be ripped to a minimum depth of 18 inches, with a maximum furrow spacing of 2 feet. Where practicable, ripping will be conducted in two passes at perpendicular directions. If large clumps/clods result from the ripping process, disking would be conducted perpendicular to slopes in order to provide terracing and minimize runoff and erosion. Final seedbed preparation would consist of raking or harrowing the spread topsoil prior to seeding to promote a firm (but not compacted) seedbed without surface crusting. Seedbed preparation may not be necessary for topsoil storage piles or other areas of temporary seeding.

Seed BMP: The upper six inches of topsoil (if available) would be stripped following vegetation mulching. Topsoil would not be mixed with the underlying subsoil horizons and would be stockpiled as a berm/windrow along the interior perimeter of the construction buffer zone. Topsoil and sub-surface soils would be replaced in the proper order, prior to final seedbed preparation. Redistribution of topsoil shall not be done when the ground or topsoil is wet. Vehicle/equipment traffic would not be allowed to cross topsoil stockpiles. If topsoil is stored for a length of time such that nutrients are depleted from the topsoil, amendments would be added to the topsoil as advised by the Coleman Oil & Gas environmental scientist or appropriate agent/contractor.

Seed method: The seed mix chosen for this project is listed in Table 2. Seeding would occur at the time of interim and final reclamation. A disc-type seed drill or modified rangeland drill that allows for seeding species from different seed boxes at different planting depths will be used to seed the disturbed areas of the project area. Coleman Oil & Gas or its reclamation contractor will ensure that perennial grasses and shrubs are planted at the appropriate depth. Larger seeds (such as Indian ricegrass) would be planted at a depth of one to two inches, Intermediate size seeds (such as wheatgrasses and shrubs) will be planted at a depth of 0.5 inch and small seeds (such as alkali sacaton and sand drop seed) will be planted at a depth of 0.25 inch. In situations where differing planting depths are not practicable using available equipment, the entire seed mix will be planted no deeper than 0.25 inch. A drag, packer, or roller would follow the seeder to ensure uniform seed coverage and adequate compaction. Seed would be drilled perpendicular to slopes at practical in order to minimize runoff and erosion. Drill seeding may be used on well-packed and stable soils that occur on gentler slopes and where equipment and drills can safely operate. Where drill seeding is not practicable due to topography, the reclamation contractor will hand-broadcast seed using a cyclone hand seeder or similar broadcast seeder. Seeds like Galleta (with florets) and winter fat (with fine hairs) may also be broadcast as they do not flow well through a seeder. Broadcast application of seed requires a doubling of the drill-seeding rate. The seed will then be raked into the ground, so the seed is planted no deeper than 0.25 inch below the surface.

Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment

Weed treatment plan description: Should any noxious or invasive weeds be documented on any portion of the action area located on BLM-managed lands after earthwork and seeding activities, the BLM-FFO Coordinator will be notified and Coleman Oil & Gas will provide a Weed Management Plan and if necessary, a Pesticide Use Proposal. Only pesticides authorized for use on BLM lands would be used and applied by a licensed pesticide applicator. The use of pesticides would comply with federal and state laws and used only in accordance with their registered use and limitations. Coleman Oil & Gas weed-control contractor would contact the BLM-FFO prior to using these chemicals.

Weed treatment plan

Monitoring plan description: Monitoring activities will be initiated after the project is completed, during the post-disturbance earthwork and seeding inspection process. Operator will contact BLM/BIA when ready for Final Abandonment Notice (FAN) inspection. Post-Reclamation Monitoring Initiation After the well has been plugged and the reclamation work and seeding have been completed, a post-disturbance inspection at the project site will occur. The operator will contact BLM to initiate an onsite inspection. Annual Monitoring If needed, Coleman Oil & Gas will begin annual monitoring of the photo points and the vegetation line point intercept transects 2 calendar years after the completion and approval of the final earthwork and seeding. Monitoring may occur any time of the year. A completed monitoring report of the permanent photo points will be submitted by Coleman Oil & Gas to Bureau Land Management by December 31of the year the site is monitored. Within 60 days after receipt, the Bureau Land Management will

Operator Name: COLEMAN OIL & GAS INCORPORATED

Well Name: LYBROOK FED COM 23-6-19 GP **Well Number:** 001H

acknowledge that the report has been received and evaluated. Vegetation line point intercept transects will be monitored annually until attainment of vegetation reclamation cover standards have been met. Colman Oil & Gas will keep a record of the monitoring for future submittal to the Bureau Land Management at reclamation attainment.

Monitoring plan

Success standards: Requirements for determining reclamation and if it is successfully completed for the selected vegetation community are determined by the reclamation percent cover standards for the community, as outline in Table 3. These standards must be met during post-disturbance monitoring procedures in order for the Bureau of Land Management to sign off on the attainment of vegetation reclamation standards.

Pit closure description: No reserve pit will be utilized.

Pit closure attachment:

Section 11 - Surface

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

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

Section 12 - Other

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

ROW Type(s):

Operator Name: COLEMAN OIL & GAS INCORPORATED

Well Name: LYBROOK FED COM 23-6-19 GP **Well Number:** 001H

ROW

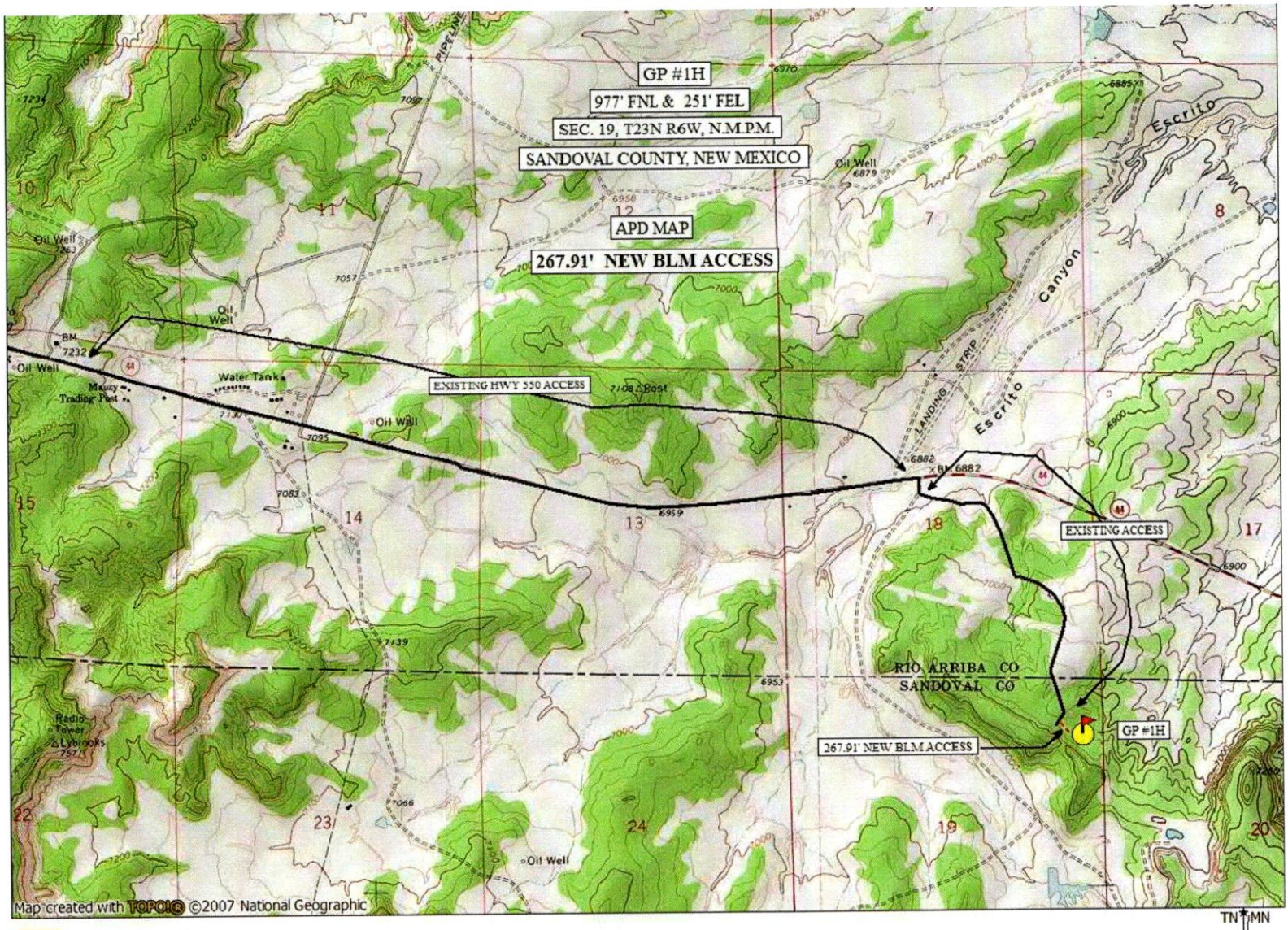
SUPO Additional Information:

Use a previously conducted onsite? Y

Previous Onsite information: Onsite was conducted on 07/06/2023

Other SUPO

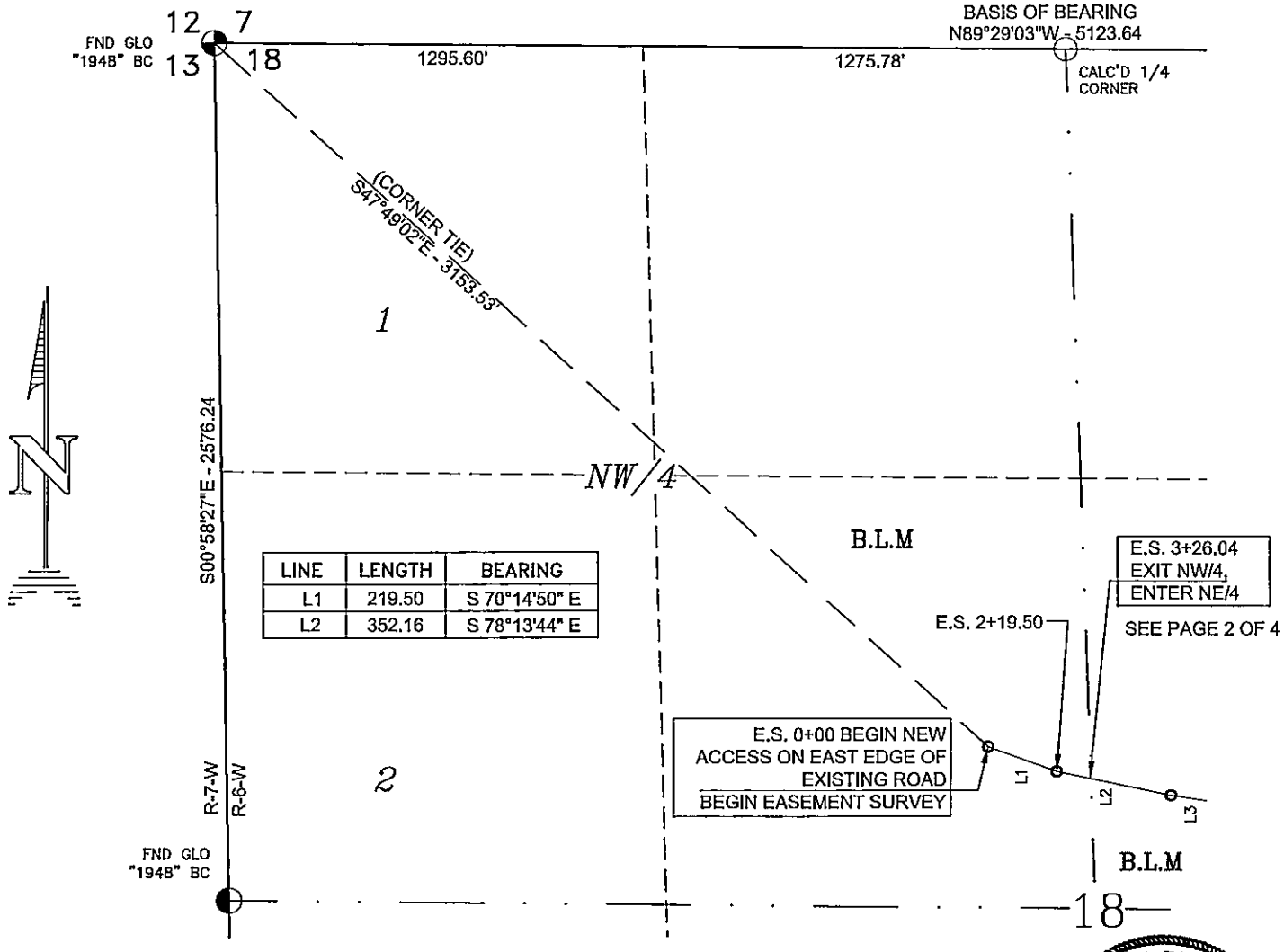
Lybrook_Fed_Com_23_6_19_GP__1H_SUPO_revised_080525_20250806093725.pdf


GP #1H
977' FNL & 251' FEL
SEC. 19, T23N R6W, N.M.P.M.
SANDOVAL COUNTY, NEW MEXICO
APD MAP
267.91' NEW BLM ACCESS
EXISTING HWY 550 ACCESS
EXISTING ACCESS
267.91' NEW BLM ACCESS
GP #1H
RIO ARRIBA CO
SANDOVAL CO
Escrito Canyon
LANDING STRIP
Water Tanks
Oil Well
Radio Tower
Map created with TOPO! ©2007 National Geographic
NATIONAL GEOGRAPHIC
0.0 0.5 1.0 miles
0.0 0.5 1.0 1.5 km
TN MN
8½°

Directions from the Intersection of Highway 550 and Highway 64 in Bloomfield, NM
to
GP #1H
977' FNL 251' FEL,
Section 19, T23N, R6W, N.M.P.M.,
Sandoval County, New Mexico
Latitude: 36° 12' 55.279" N
Longitude: 107° 30' 04.610" W
Nad 1983

From the Intersection of Highway 550 & Highway 64
Go South on Hwy 550 for 51.1 miles
3.2 miles West of Counselor, NM
Turn rt (southerly) 300'
Turn left (easterly then southerly) 1.1 miles
To the beginning of new access
on the left (east) side of the field road
which begins and continues
southeasterly for 267.91' to the new location.

ACCESS EASEMENT SURVEY FOR
A19 2306 WELL SITE
LOCATED IN THE NW/4 OF SEC. 18, T-23-N, R-6-W, N.M.P.M.
RIO ARRIBA COUNTY, NEW MEXICO



LINE	LENGTH	BEARING
L1	219.50	S 70°14'50" E
L2	352.16	S 78°13'44" E

GLEN W. RUSSELL NEW MEXICO 15703 LICENSED PROFESSIONAL SURVEYOR

NOTES:

1.) LOCATION OF UNDERGROUND UTILITIES DEPICTED ARE APPROXIMATE. PRIOR TO EXCAVATION UNDERGROUND UTILITIES SHOULD BE FIELD VERIFIED. ALL CONSTRUCTION ACTIVITIES SHOULD BE FIELD VERIFIED WITH NEW MEXICO ONE-CALL AUTHORITIES AT LEAST 2 WORKING DAYS PRIOR TO CONSTRUCTION.

2.) THIS IS NOT A BOUNDARY SURVEY.

PAGE 1 OF 4

OWNERSHIP

LOCATION	OWNER	STATION	FT./RODS
NW/4 SEC. 18	BLM	E.S. 0+00 TO E.S. 3+26.04	326.04/19.76

BASIS OF BEARING: AS MEASURED BY GPS BETWEEN FOUND MONUMENTS AT THE NORTHWEST CORNER AND NORTHEAST CORNER OF SECTION 18, TOWNSHIP 23 NORTH, RANGE 6 WEST, N.M.P.M., RIO ARRIBA COUNTY, NEW MEXICO. BEARS N89°29'03"W, A DISTANCE OF 5123.64' AS MEASURED BY G.P.S. LOCAL GRID NAD83.

DATE OF SURVEY:	GWR	DRAWN BY:	AMR
SURVEY CREW:	5/25/22	DATE:	9/7/22

REV. 1
REV. 2

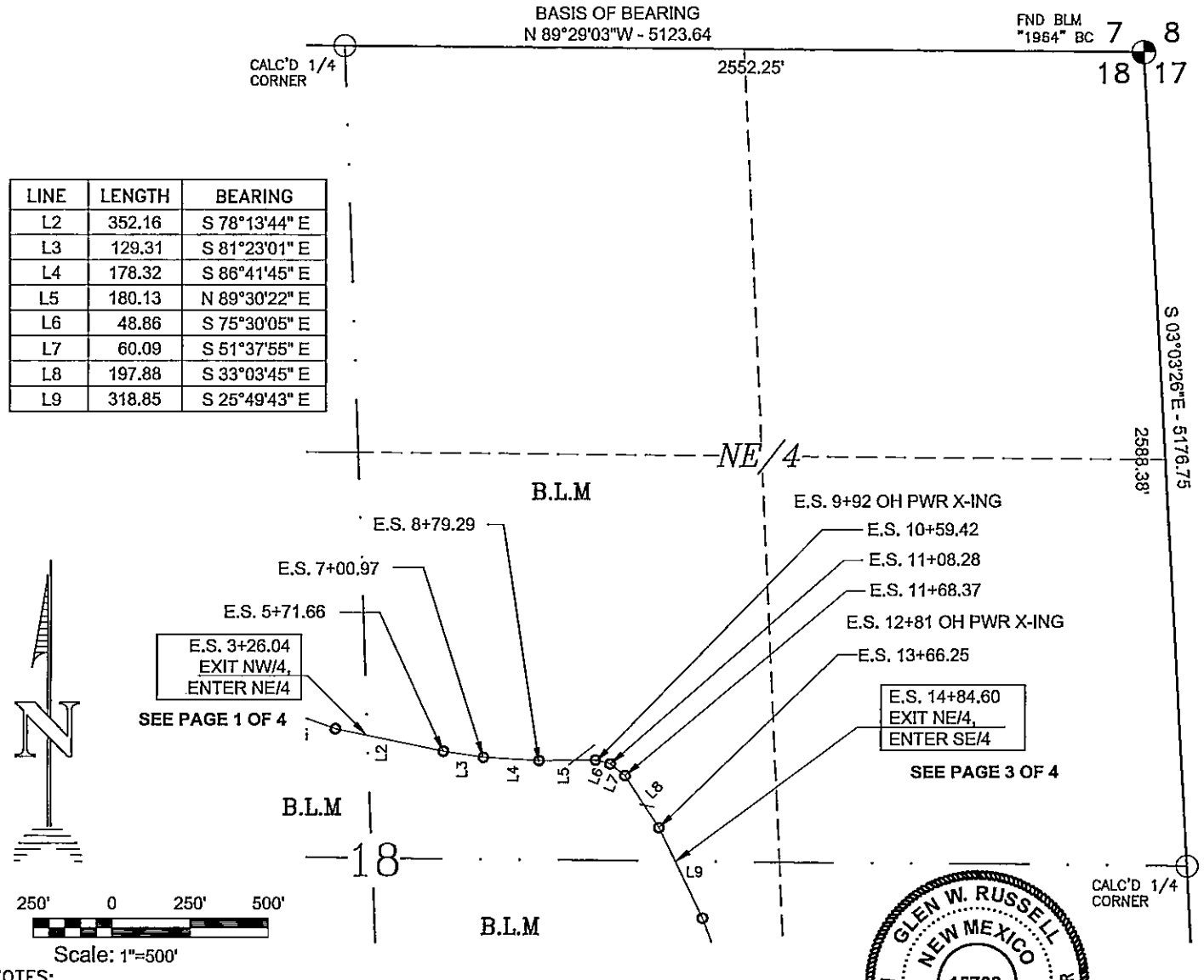
I, GLEN W. RUSSELL, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

GLEN W. RUSSELL DATE SEPTEMBER 14, 2022
GLEN W. RUSSELL, PLS
NEW MEXICO L.S. #15703

VECTOR SURVEYS, LLC
Professional Land Surveys, Mapping,
GPS Surveys & Oil Field Services
122 N Wall Avenue, Farmington, NM 87401
Phone (505) 320-9595
E-Mail: vectorgr001@msn.com

WORK ORDER NO.:	JMJ006	CAD FILE:	A19 2306 AE

ACCESS EASEMENT SURVEY FOR
A19 2306 WELL SITE
LOCATED IN THE NE/4 OF SEC. 18, T-23-N, R-6-W, N.M.P.M.
RIO ARRIBA COUNTY, NEW MEXICO



LINE	LENGTH	BEARING
L2	352.16	S 78°13'44" E
L3	129.31	S 81°23'01" E
L4	178.32	S 86°41'45" E
L5	180.13	N 89°30'22" E
L6	48.86	S 75°30'05" E
L7	60.09	S 51°37'55" E
L8	197.88	S 33°03'45" E
L9	318.85	S 25°49'43" E

NOTES:

1.) LOCATION OF UNDERGROUND UTILITIES DEPICTED ARE APPROXIMATE. PRIOR TO EXCAVATION UNDERGROUND UTILITIES SHOULD BE FIELD VERIFIED. ALL CONSTRUCTION ACTIVITIES SHOULD BE FIELD VERIFIED WITH NEW MEXICO ONE-CALL AUTHORITIES AT LEAST 2 WORKING DAYS PRIOR TO CONSTRUCTION.

2.) THIS IS NOT A BOUNDARY SURVEY.

GLEN W. RUSSELL NEW MEXICO 15703 LICENSED PROFESSIONAL SURVEYOR

PAGE 2 OF 4

OWNERSHIP			
LOCATION	OWNER	STATION	FT./RODS
NE/4 SEC. 18	BLM	E.S. 3+26.04 TO E.S. 14+84.60	1158.56/70.22

BASIS OF BEARING: AS MEASURED BY GPS BETWEEN FOUND MONUMENTS AT THE NORTHWEST CORNER AND NORTHEAST CORNER OF SECTION 18, TOWNSHIP 23 NORTH, RANGE 6 WEST, N.M.P.M., RIO ARRIBA COUNTY, NEW MEXICO. BEARS N89°29'03"W, A DISTANCE OF 5123.64' AS MEASURED BY G.P.S. LOCAL GRID NAD83.

DATE OF SURVEY:	GWR	DRAWN BY:	AMR
SURVEY CREW:	5/25/22	DATE:	9/7/22
REV. 1			
REV. 2			

I, GLEN W. RUSSELL, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

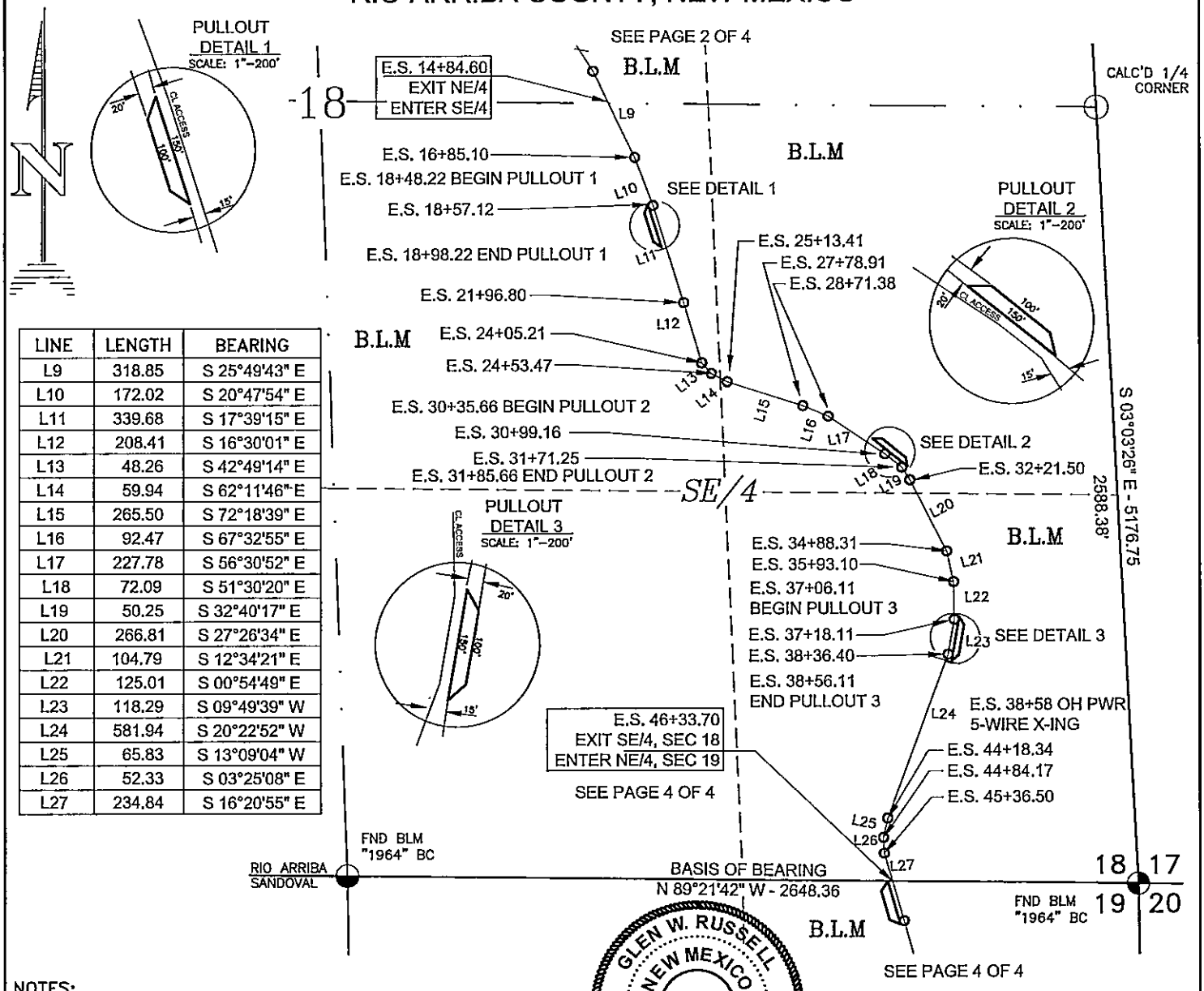
GLEN W. RUSSELL DATE SEPTEMBER 14, 2022

GLEN W. RUSSELL, PLS
NEW MEXICO L.S. #15703

VECTOR SURVEYS, LLC
Professional Land Surveys, Mapping,
GPS Surveys & Oil Field Services
122 N Wall Avenue, Farmington, NM 87401
Phone (505) 320-9595
E-Mail: vectorgr001@msn.com

WORK ORDER NO.:	JMJ006	CAD FILE:	A19 2306 AE

ACCESS EASEMENT SURVEY FOR
A19 2306 WELL SITE
LOCATED IN THE SE/4 OF SEC. 18, T-23-N, R-6-W, N.M.P.M.
RIO ARRIBA COUNTY, NEW MEXICO



LINE	LENGTH	BEARING
L9	318.85	S 25°49'43" E
L10	172.02	S 20°47'54" E
L11	339.68	S 17°39'15" E
L12	208.41	S 16°30'01" E
L13	48.26	S 42°49'14" E
L14	59.94	S 62°11'46" E
L15	265.50	S 72°18'39" E
L16	92.47	S 67°32'55" E
L17	227.78	S 56°30'52" E
L18	72.09	S 51°30'20" E
L19	50.25	S 32°40'17" E
L20	266.81	S 27°26'34" E
L21	104.79	S 12°34'21" E
L22	125.01	S 00°54'49" E
L23	118.29	S 09°49'39" W
L24	581.94	S 20°22'52" W
L25	65.83	S 13°09'04" W
L26	52.33	S 03°25'08" E
L27	234.84	S 16°20'55" E

NOTES:

1.) LOCATION OF UNDERGROUND UTILITIES DEPICTED ARE APPROXIMATE. PRIOR TO EXCAVATION UNDERGROUND UTILITIES SHOULD BE FIELD VERIFIED. ALL CONSTRUCTION ACTIVITIES SHOULD BE FIELD VERIFIED WITH NEW MEXICO ONE-CALL AUTHORITIES AT LEAST 2 WORKING DAYS PRIOR TO CONSTRUCTION.

2.) THIS IS NOT A BOUNDARY SURVEY.

GLEN W. RUSSELL NEW MEXICO 15703 LICENSED PROFESSIONAL SURVEYOR

250' 0 250' 500'

Scale: 1"=500'

PAGE 3 OF 4

OWNERSHIP			
LOCATION	OWNER	STATION	FT./RODS
SE/4 SEC. 18	BLM	E.S. 14+84.60 TO E.S. 46+33.70	3149.10/190.85

BASIS OF BEARING: AS MEASURED BY GPS BETWEEN FOUND MONUMENTS AT THE SOUTH QUARTER CORNER AND SOUTHEAST CORNER OF SECTION 18, TOWNSHIP 23 NORTH, RANGE 6 WEST, N.M.P.M., RIO ARRIBA COUNTY, NEW MEXICO. BEARS N89°21'42"W, A DISTANCE OF 2648.36' AS MEASURED BY G.P.S. LOCAL GRID NAD83.

DATE OF SURVEY:	GWR	DRAWN BY:	AMR
SURVEY CREW:	5/25/22	DATE:	9/9/22
REV. 1	10/10/23 ADDED PULLOUT		
REV. 2			

I, GLEN W. RUSSELL, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

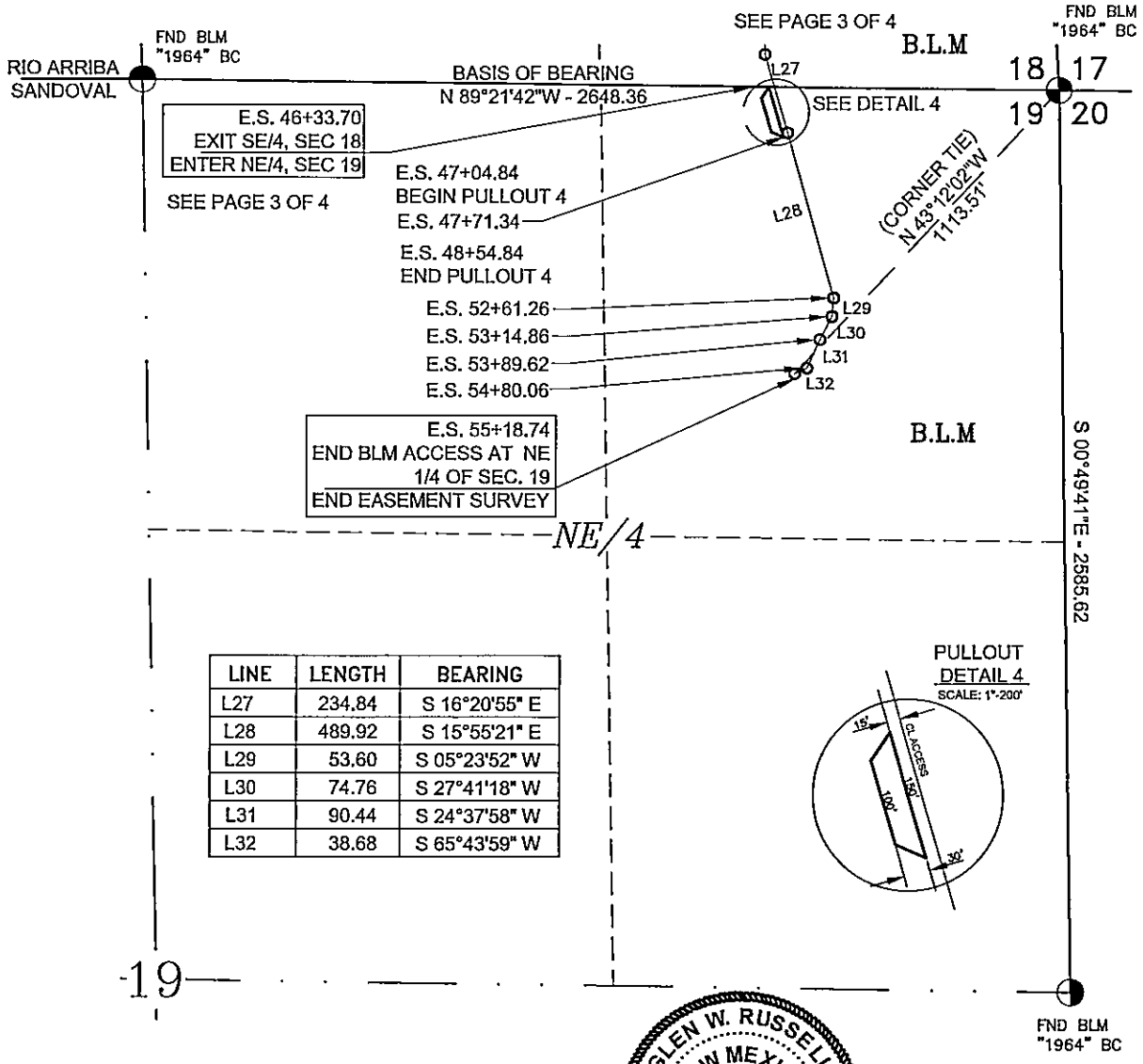
GLEN W. RUSSELL DATE OCTOBER 23, 2023

GLEN W. RUSSELL, PLS
NEW MEXICO L.S. #15703

VECTOR SURVEYS, LLC
Professional Land Surveys, Mapping,
GPS Surveys & Oil Field Services
122 N Wall Avenue, Farmington, NM 87401
Phone (505) 320-9595
E-Mail: vectorgr001@msn.com

WORK ORDER NO.:	JMJ007	CAD FILE:	A19 2306 AE

ACCESS EASEMENT SURVEY FOR
A19 2306 WELL SITE
LOCATED IN THE NE/4 OF SEC. 19, T-23-N, R-6-W, N.M.P.M.
SANDOVAL COUNTY, NEW MEXICO



LINE	LENGTH	BEARING
L27	234.84	S 16°20'55" E
L28	489.92	S 15°55'21" E
L29	53.60	S 05°23'52" W
L30	74.76	S 27°41'18" W
L31	90.44	S 24°37'58" W
L32	38.68	S 65°43'59" W

GLEN W. RUSSELL NEW MEXICO 15703 LICENSED PROFESSIONAL SURVEYOR

250' 0 250' 500'

Scale: 1"=500'

NOTES:

1.) LOCATION OF UNDERGROUND UTILITIES DEPICTED ARE APPROXIMATE. PRIOR TO EXCAVATION UNDERGROUND UTILITIES SHOULD BE FIELD VERIFIED. ALL CONSTRUCTION ACTIVITIES SHOULD BE FIELD VERIFIED WITH NEW MEXICO ONE-CALL AUTHORITIES AT LEAST 2 WORKING DAYS PRIOR TO CONSTRUCTION.

2.) THIS IS NOT A BOUNDARY SURVEY.

PAGE 4 OF 4

OWNERSHIP

LOCATION	OWNER	STATION	FT./RODS
NE/4 SEC. 19	BLM	E.S. 46+33.70 TO E.S. 55+18.74	885.04/53.64

BASIS OF BEARING: AS MEASURED BY GPS BETWEEN FOUND MONUMENTS AT THE NORTH QUARTER CORNER AND NORTHEAST CORNER OF SECTION 19, TOWNSHIP 23 NORTH, RANGE 6 WEST, N.M.P.M., SANDOVAL COUNTY, NEW MEXICO. BEARS N89°21'42"W, A DISTANCE OF 2648.36' AS MEASURED BY G.P.S. LOCAL GRID NAD83.

DATE OF SURVEY:	GWR	DRAWN BY:	AMR
SURVEY CREW:	5/25/22	DATE:	9/9/22
REV. 1	10/10/23 ADDED PULLOUT		
REV. 2			

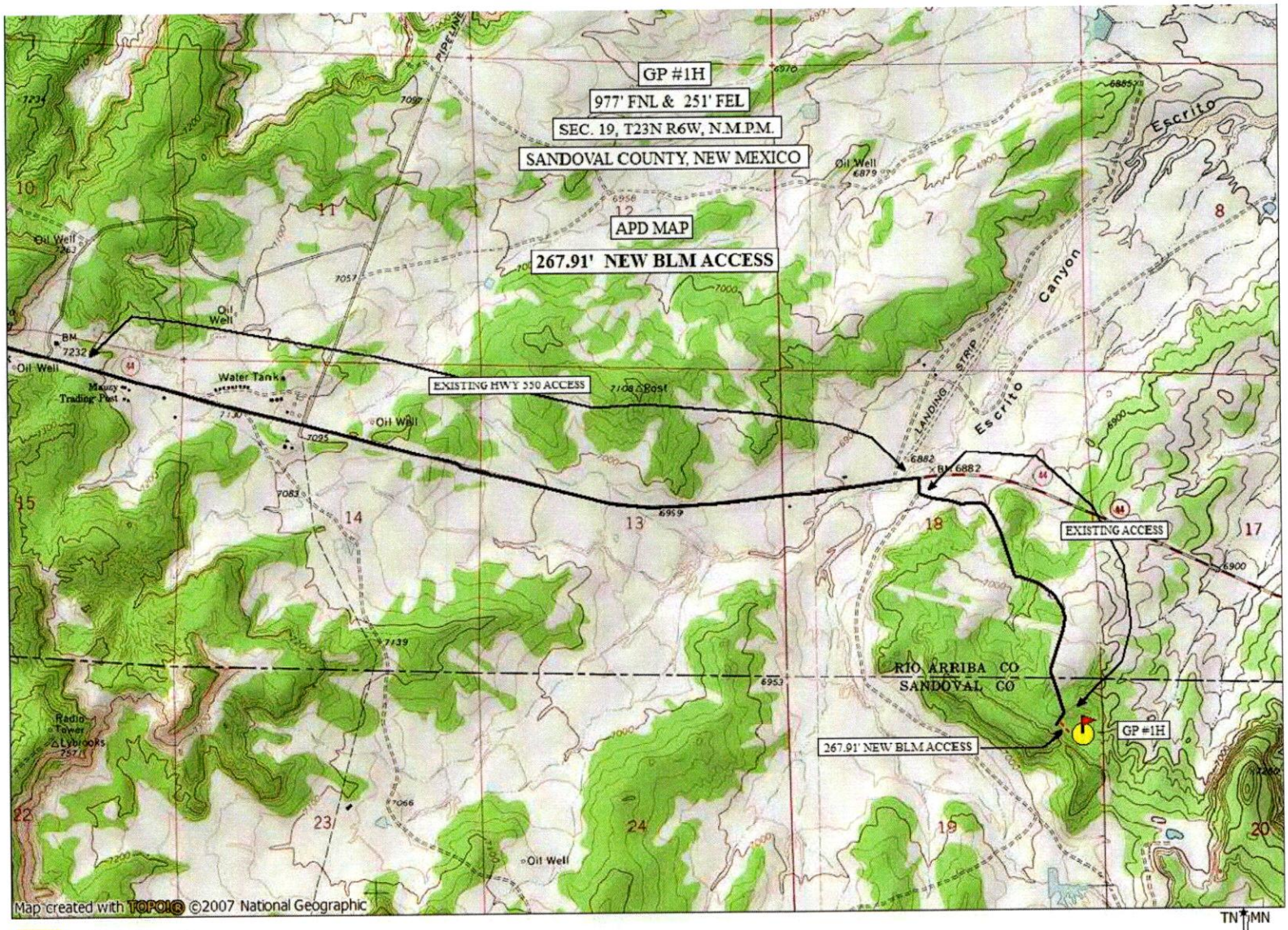
I, GLEN W. RUSSELL, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

GLEN W. RUSSELL DATE OCTOBER 23, 2023

GLEN W. RUSSELL, PLS
NEW MEXICO L.S. #15703

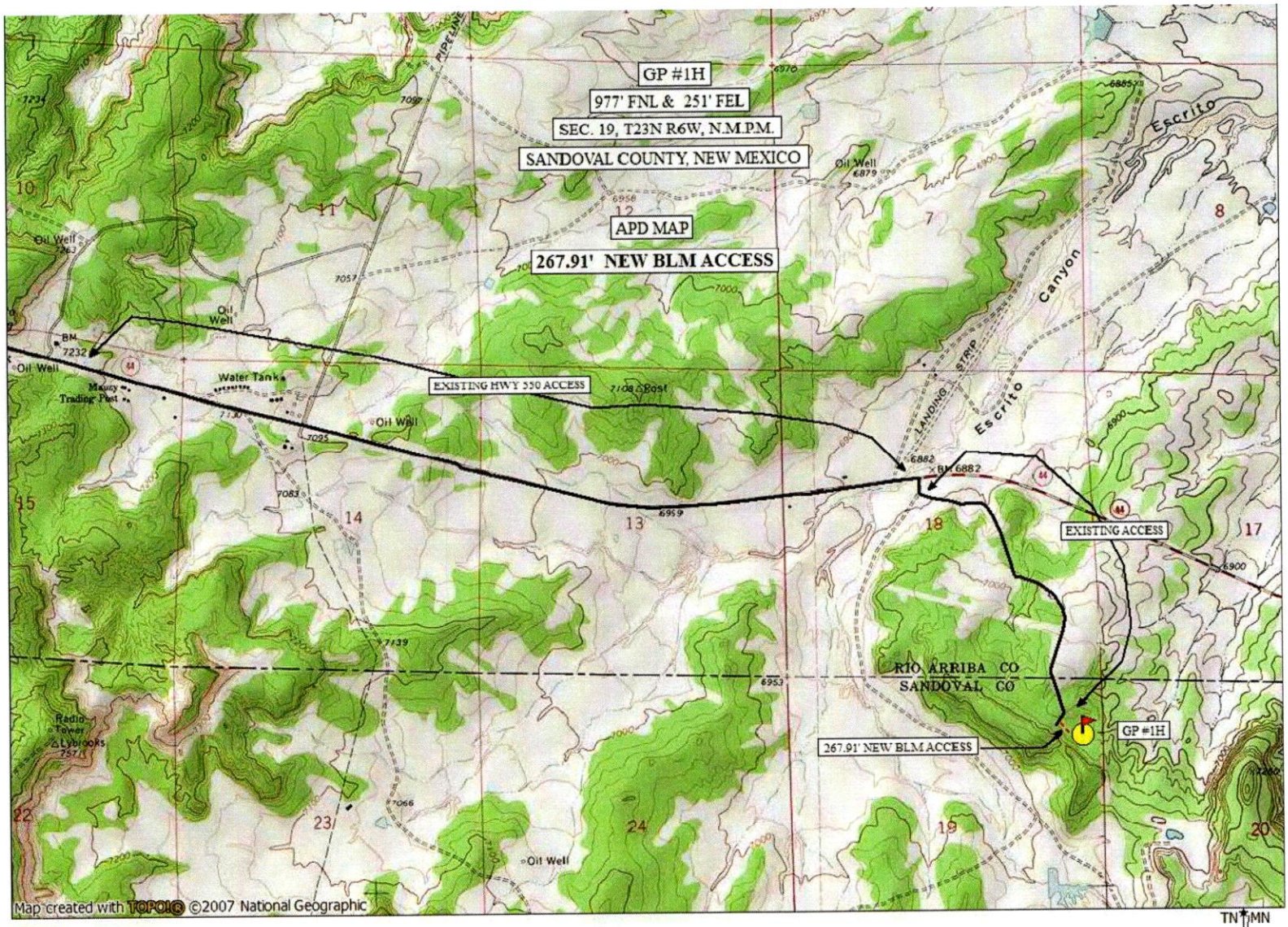
VECTOR SURVEYS, LLC
Professional Land Surveys, Mapping,
GPS Surveys & Oil Field Services
122 N Wall Avenue, Farmington, NM 87401
Phone (505) 320-9595
E-Mail: vectorgr001@msn.com

WORK ORDER NO.:	JMJ007	CAD FILE:	A19 2306 AE


GP #1H
977' FNL & 251' FEL
SEC. 19, T23N R6W, N.M.P.M.
SANDOVAL COUNTY, NEW MEXICO
APD MAP
267.91' NEW BLM ACCESS
EXISTING HWY 550 ACCESS
EXISTING ACCESS
267.91' NEW BLM ACCESS
GP #1H
RIO ARRIBA CO
SANDOVAL CO
Escrito Canyon
LANDING STRIP
Water Tanks
Oil Well
Radio Tower
Map created with TOPO! ©2007 National Geographic
NATIONAL GEOGRAPHIC
0.0 0.5 1.0 miles
0.0 0.5 1.0 1.5 km
TN MN
8½°

Directions from the Intersection of Highway 550 and Highway 64 in Bloomfield, NM
to
GP #1H
977' FNL 251' FEL,
Section 19, T23N, R6W, N.M.P.M.,
Sandoval County, New Mexico
Latitude: 36° 12' 55.279" N
Longitude: 107° 30' 04.610" W
Nad 1983

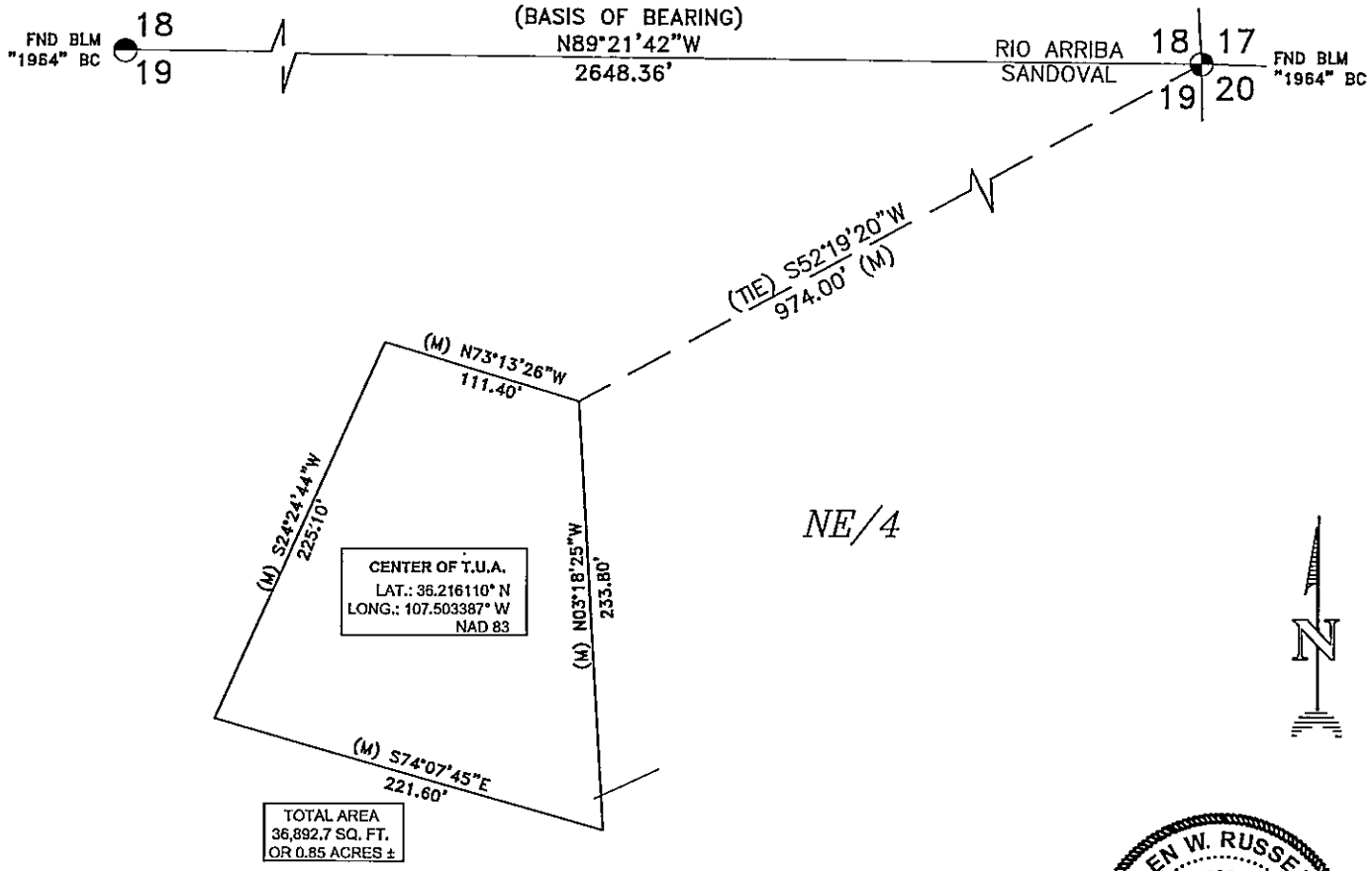
From the Intersection of Highway 550 & Highway 64
Go South on Hwy 550 for 51.1 miles
3.2 miles West of Counselor, NM
Turn rt (southerly) 300'
Turn left (easterly then southerly) 1.1 miles
To the beginning of new access
on the left (east) side of the field road
which begins and continues
southeasterly for 267.91' to the new location.


GP #1H
977' FNL & 251' FEL
SEC. 19, T23N R6W, N.M.P.M.
SANDOVAL COUNTY, NEW MEXICO
APD MAP
267.91' NEW BLM ACCESS
EXISTING HWY 550 ACCESS
EXISTING ACCESS
267.91' NEW BLM ACCESS
GP #1H
RIO ARRIBA CO
SANDOVAL CO
Escrito Canyon
LANDING STRIP
Water Tanks
Oil Well
Radio Tower
Map created with TOPO! ©2007 National Geographic
NATIONAL GEOGRAPHIC
0.0 0.5 1.0 miles
0.0 0.5 1.0 1.5 km
TN MN
8½°

Directions from the Intersection of Highway 550 and Highway 64 in Bloomfield, NM
to
GP #1H
977' FNL 251' FEL,
Section 19, T23N, R6W, N.M.P.M.,
Sandoval County, New Mexico
Latitude: 36° 12' 55.279" N
Longitude: 107° 30' 04.610" W
Nad 1983

From the Intersection of Highway 550 & Highway 64
Go South on Hwy 550 for 51.1 miles
3.2 miles West of Counselor, NM
Turn rt (southerly) 300'
Turn left (easterly then southerly) 1.1 miles
To the beginning of new access
on the left (east) side of the field road
which begins and continues
southeasterly for 267.91' to the new location.

TEMPORARY USE AREA
FOR
A19 2309 WELL SITE
LOCATED IN THE
NE/4 SECTION 19, T-23-N, R-6-W, NMPM, SANDOVAL COUNTY, NM



GLEN W. RUSSELL
NEW MEXICO
15703
LICENSED PROFESSIONAL SURVEYOR

50' 0 50' 100'
Scale: 1"=100'

NOTES:

1.) VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

2.) THIS IS NOT A BOUNDARY SURVEY.

BASIS OF BEARING:

BETWEEN FOUND MONUMENTS AT THE NORTHEAST CORNER AND THE NORTH QUARTER CORNER OF SECTION 19, TOWNSHIP 23 NORTH, RANGE 6 WEST, N.M.P.M., SANDOVAL COUNTY, NEW MEXICO.

LINE BEARS N89°21'42"W A DISTANCE OF 2648.36 FEET AS MEASURED BY G.P.S. LOCAL GRID NAD 83.

I, GLEN W. RUSSELL, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

GLEN W. RUSSELL DATE OCTOBER 23, 2023

GLEN W. RUSSELL, PLS
NEW MEXICO L.S. #15703

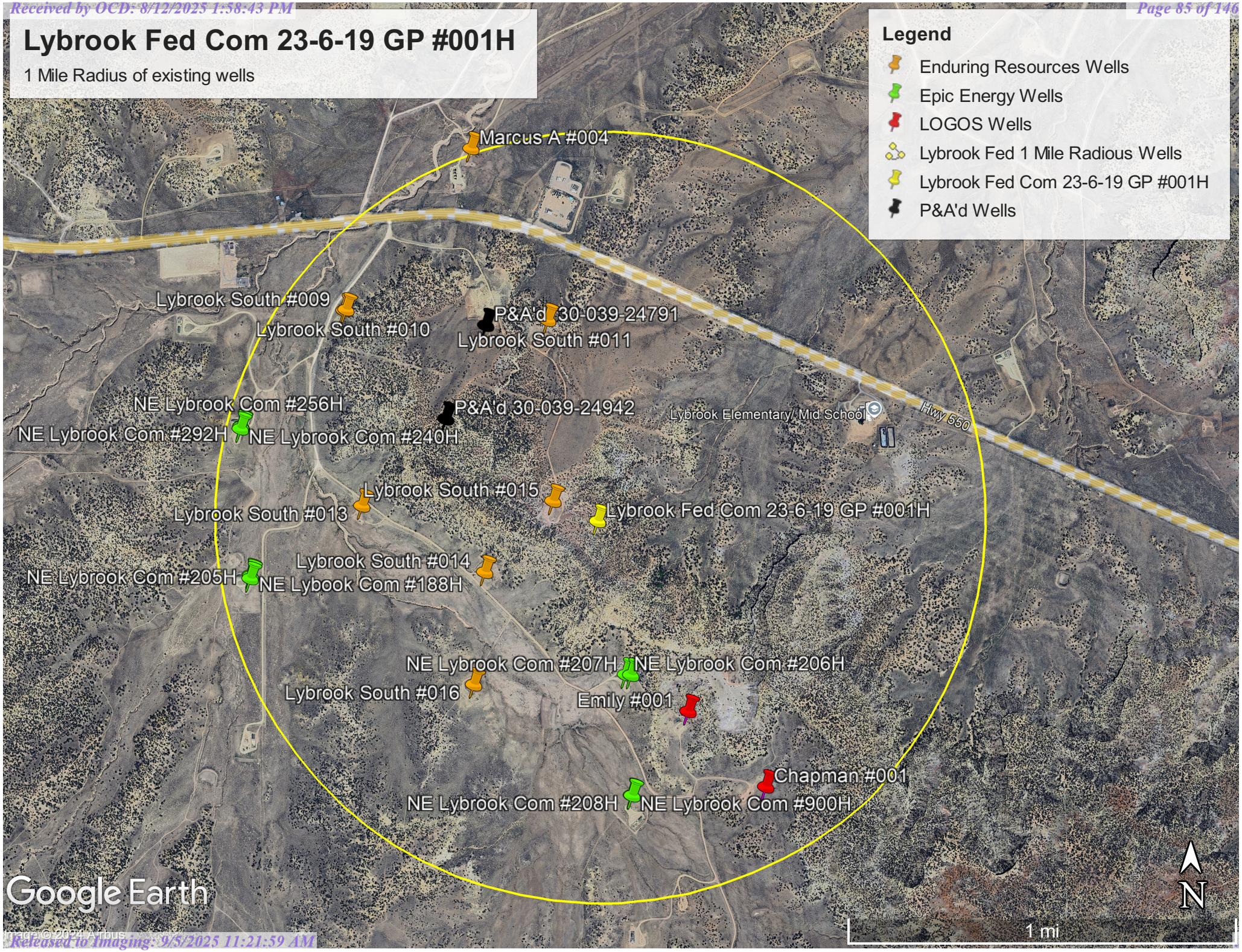
DATE OF SURVEY:	10/10/23	DRAWN BY:	AMF
SURVEY CREW:	GWR	DATE:	10/19/23

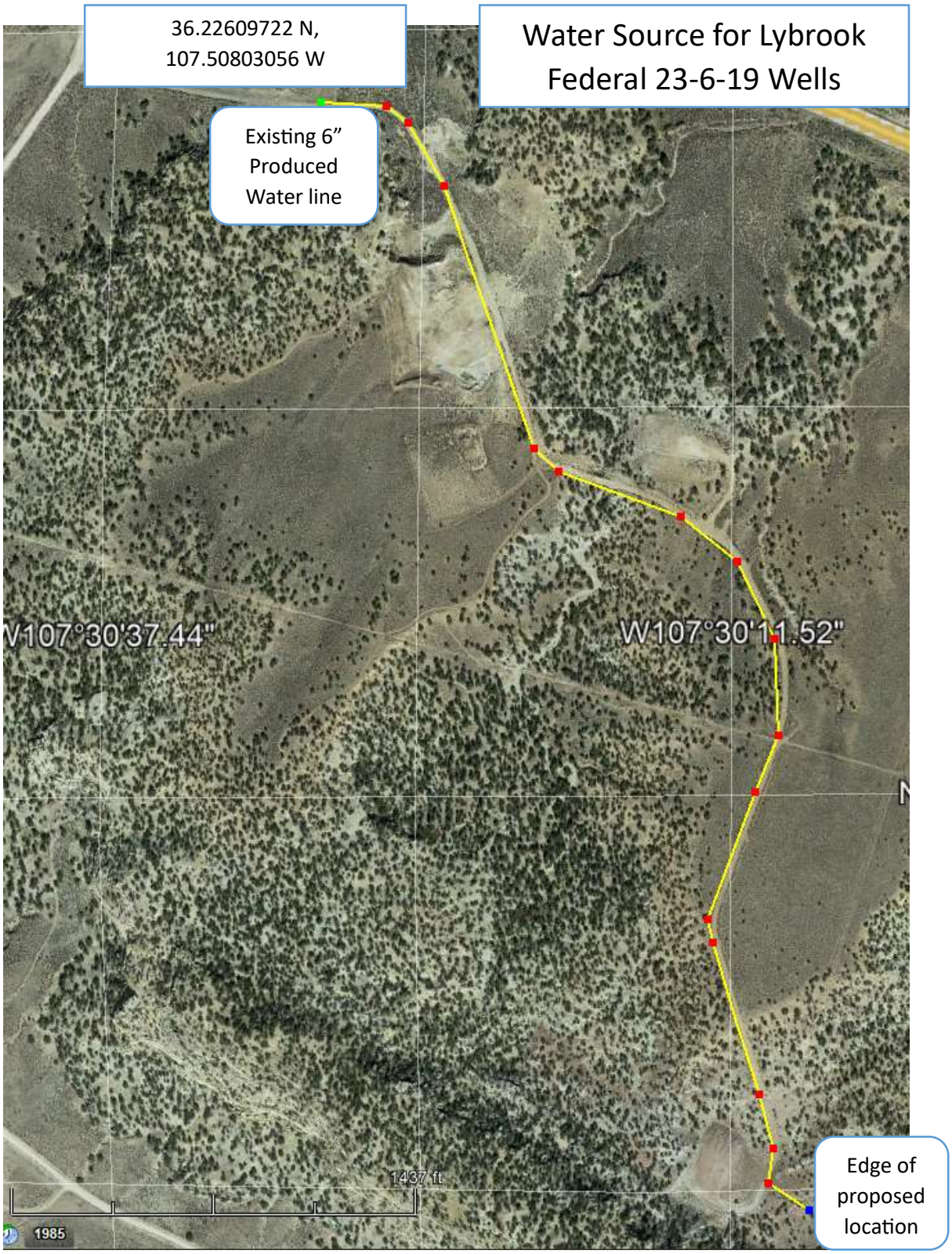
VECTOR SURVEYS, LLC
Professional Land Surveys, Mapping,
GPS Surveys & Oil Field Services
122 N. Wall Avenue, Farmington, NM 87401
Phone (505) 320-9595
E-Mail: vectorgr001@msn.com

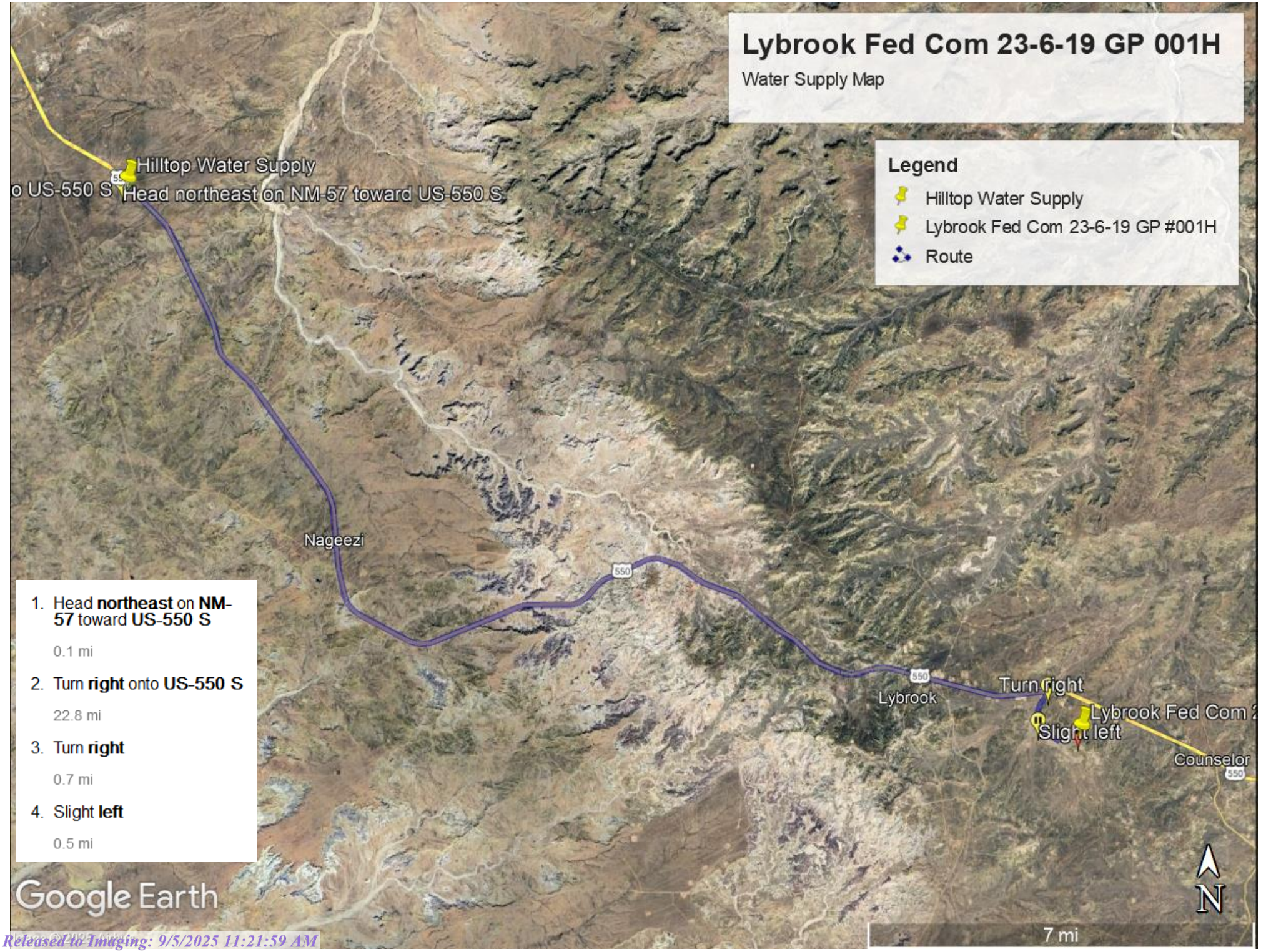
WORK ORDER NO.:	JMJ007	CAD FILE:	A19 2306 TUA

Lybrook Fed Com 23-6-19 GP #001H

1 Mile Radius of existing wells




36.22609722 N,
107.50803056 W
Water Source for Lybrook Federal 23-6-19 Wells
Existing 6” Produced Water line
W107°30'37.44"
W107°30'11.52"
1437 ft
1985
Edge of proposed location


Lybrook Fed Com 23-6-19 GP 001H
Water Supply Map
Legend
Hilltop Water Supply
Lybrook Fed Com 23-6-19 GP #001H
Route
Hilltop Water Supply
o US-550 S
Head northeast on NM-57 toward US-550 S
Nageezi
550
Lybrook
Turn right
Slight left
Lybrook Fed Com 2
Counselor
1. Head northeast on NM-57 toward US-550 S
0.1 mi
2. Turn right onto US-550 S
22.8 mi
3. Turn right
0.7 mi
4. Slight left
0.5 mi
Google Earth
N
7 mi

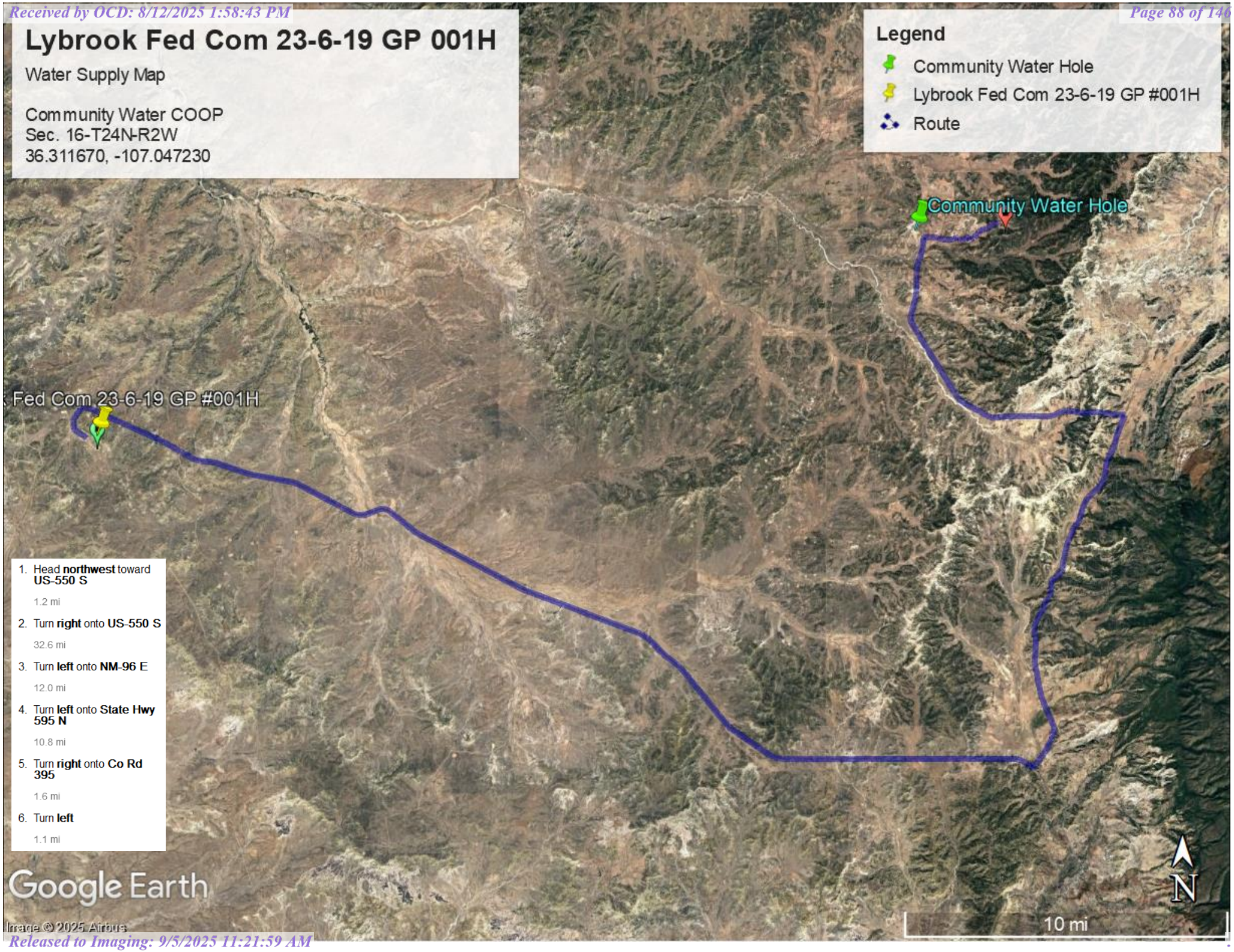
Lybrook Fed Com 23-6-19 GP 001H

Water Supply Map

Community Water COOP
Sec. 16-T24N-R2W
36.311670, -107.047230

Legend

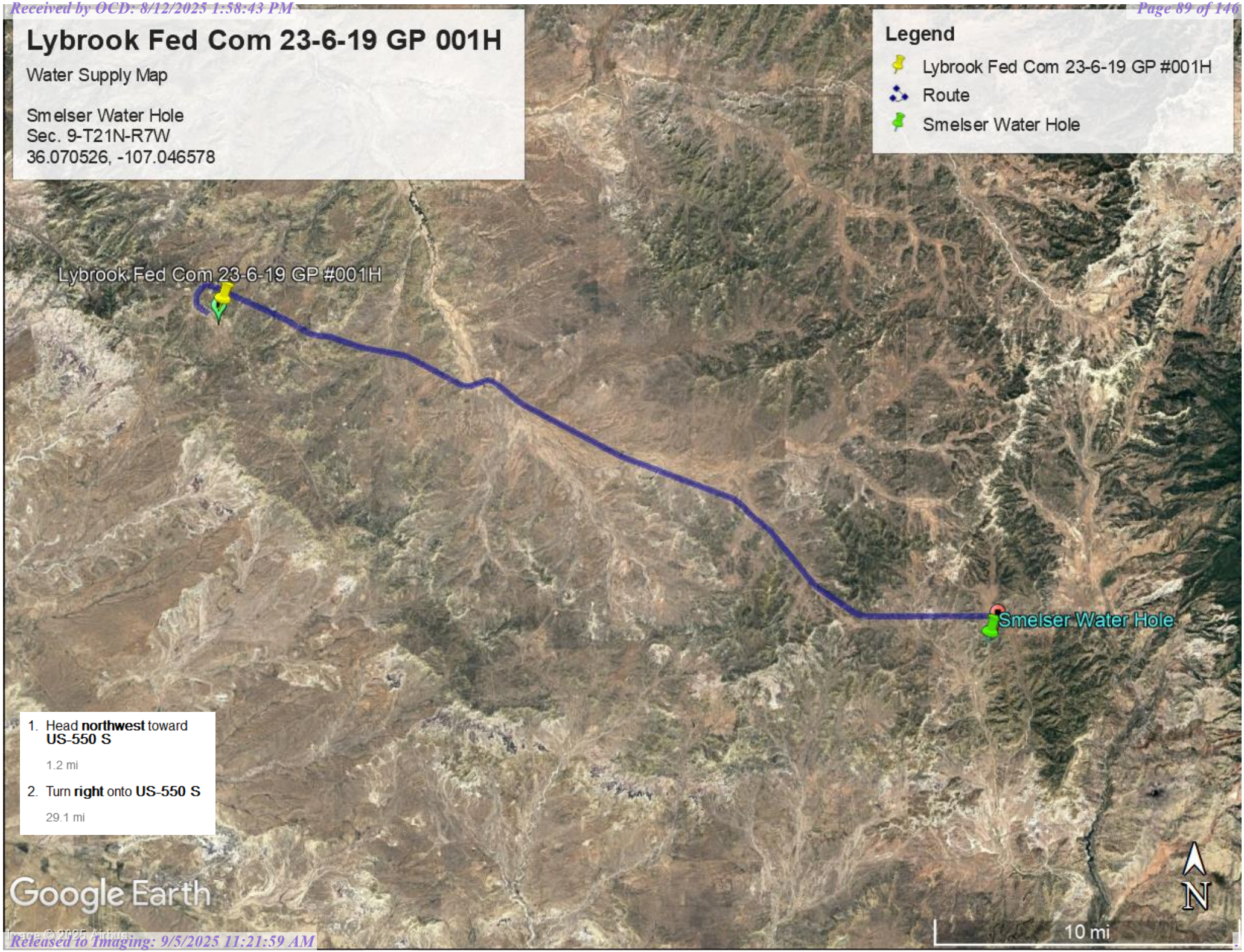
- Community Water Hole
- Lybrook Fed Com 23-6-19 GP #001H
- Route

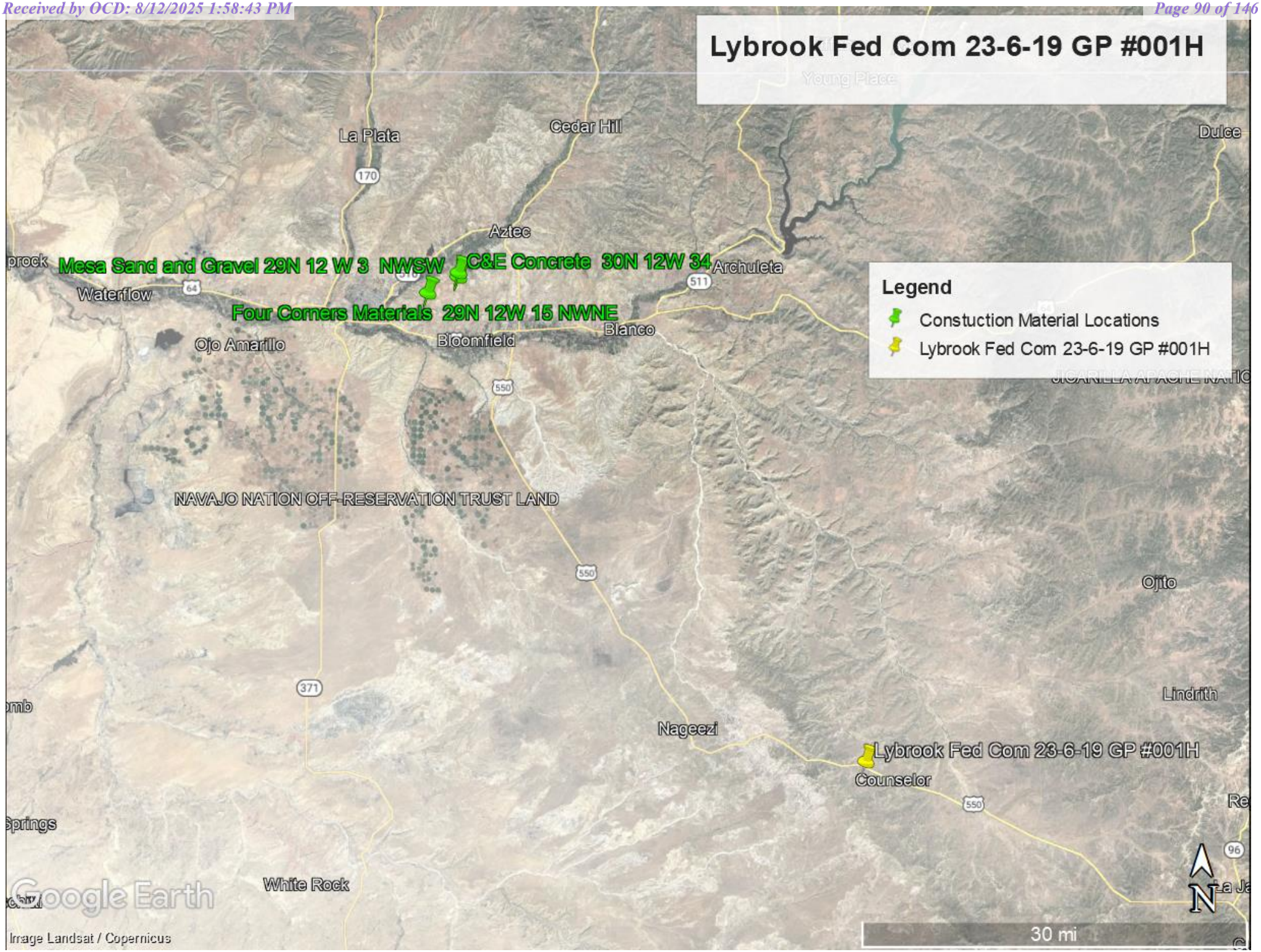


Lybrook Fed Com 23-6-19 GP 001H

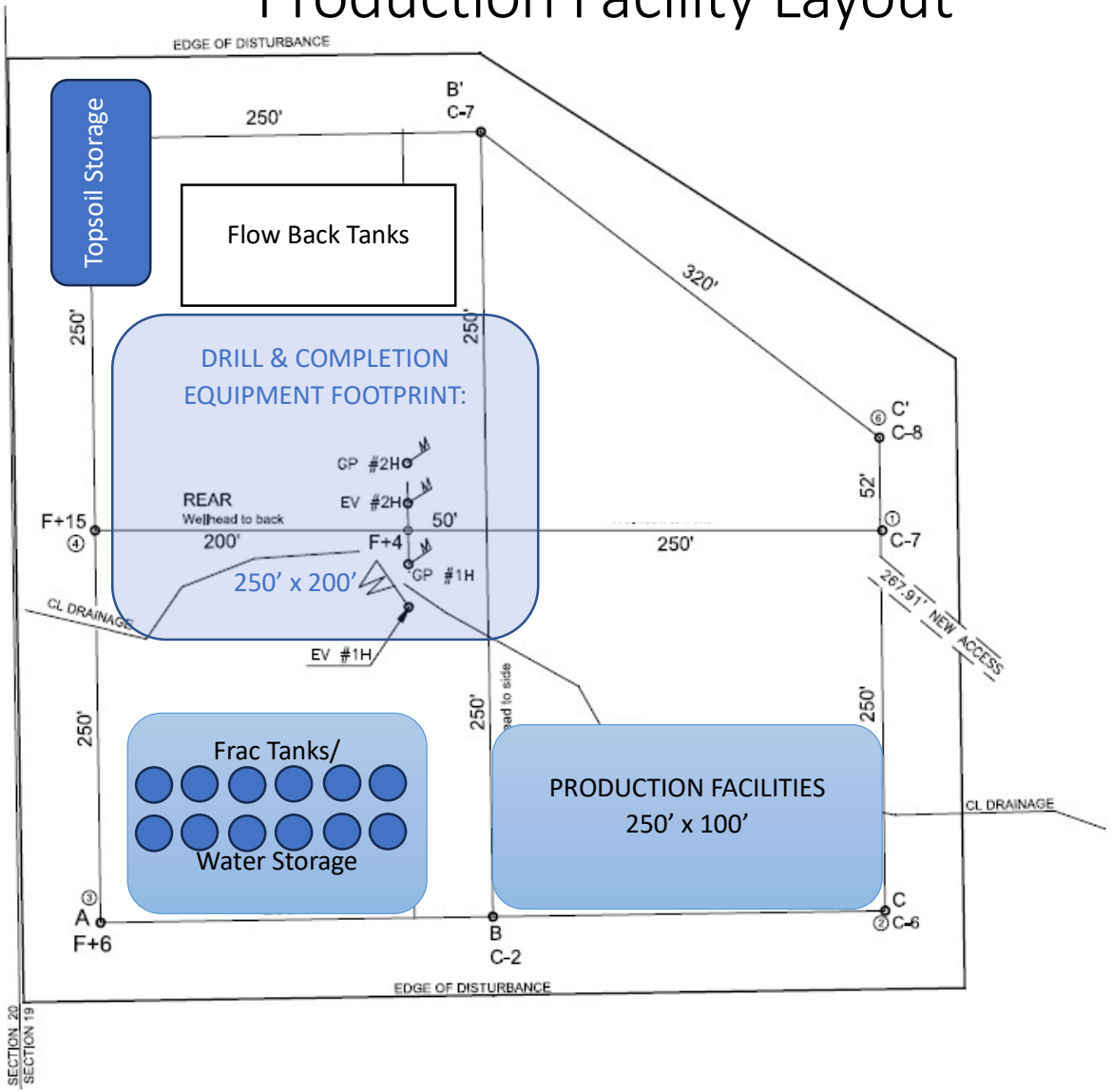
Water Supply Map

Smelser Water Hole
Sec. 9-T21N-R7W
36.070526, -107.046578

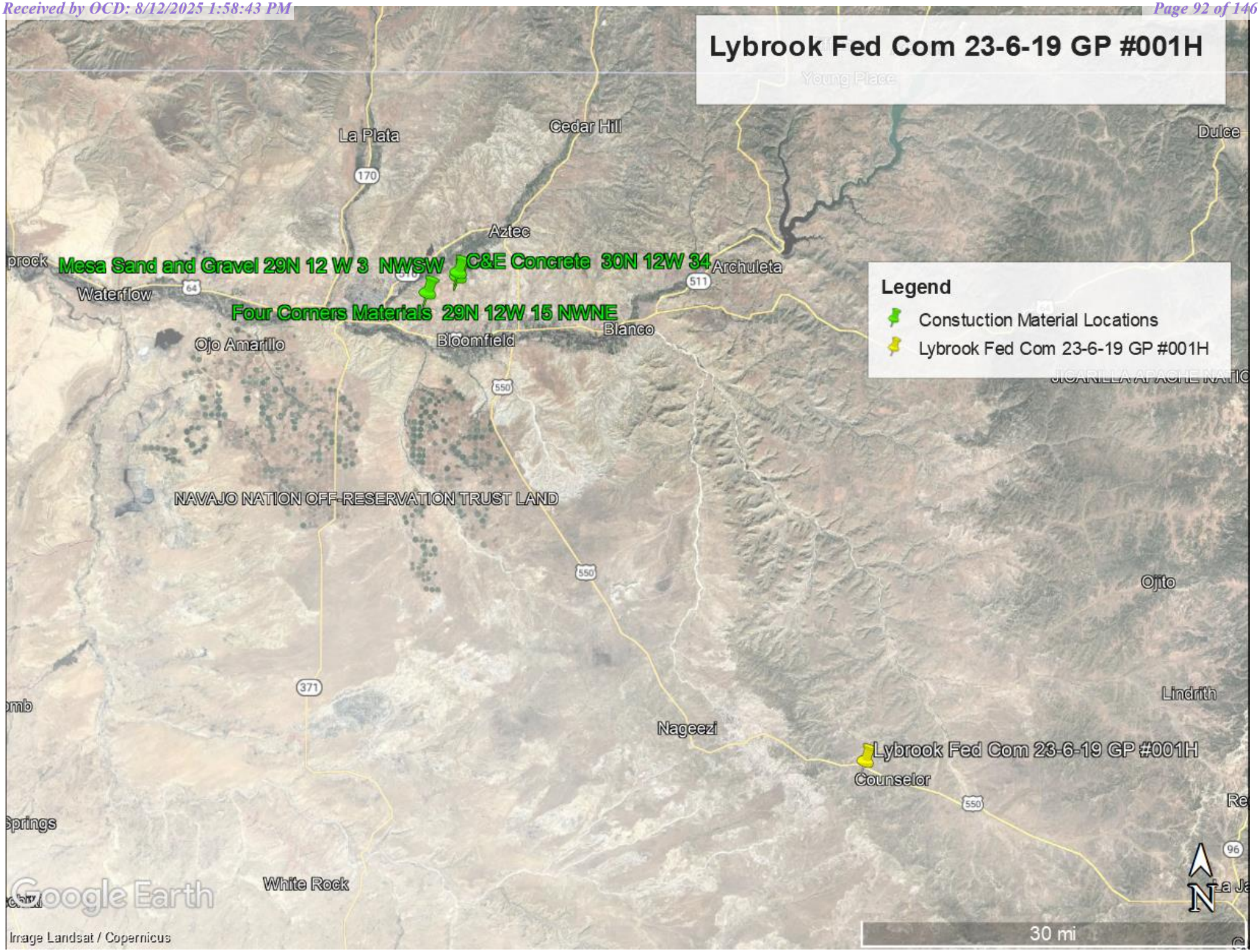



Lybrook Fed Com 23-6-19 GP #001H
La Plata
Cedar Hill
Dulce
Aztec
Mesa Sand and Gravel 29N 12 W 3 NWSW
C&E Concrete 30N 12W 34
Archuleta
Waterflow
Four Corners Materials 29N 12W 15 NWNE
Blanco
Bloomfield
Ojo Amarillo
NAVAJO NATION OFF-RESERVATION TRUST LAND
Ojito
Lindrith
Nageezi
Lybrook Fed Com 23-6-19 GP #001H
Counselor
White Rock
Legend
Constuction Material Locations
Lybrook Fed Com 23-6-19 GP #001H
Google Earth
Image Landsat / Copernicus
30 mi
N

Lybrook Federal 23-6-19 Pad
Production Facility Layout



NOTES:


Lybrook Fed Com 23-6-19 GP #001H
Mesa Sand and Gravel 29N 12 W 3 NWSW
C&E Concrete 30N 12W 34
Four Corners Materials 29N 12W 15 NWNE
Legend
Constuction Material Locations
Lybrook Fed Com 23-6-19 GP #001H
La Plata
Cedar Hill
Dulce
Aztec
Archuleta
Waterflow
Bloomfield
Blanco
Ojo Amarillo
NAVAJO NATION OFF-RESERVATION TRUST LAND
Ojito
Lindrith
Nageezi
Counselor
White Rock
Google Earth
Image Landsat / Copernicus
30 mi
N

SURFACE USE PLAN OF OPERATION

for

LYBROOK FED COM 23-6-19 GP #001H
977' FNL & 251' FEL
Sec 19, T23N, R6W
Sandoval County, New Mexico

Prepared for

Coleman Oil & Gas, Inc
PO Drawer 3337
Farmington, NM 87499

SEPTEMBER 2023

332 Rd 3100
Aztec, New Mexico 87410
Phone: (505) 327-4892

TABLE OF CONTENTS

Pursuant to Onshore Oil and Gas Order No. 1 (43 CFR 3160), this Surface Use Plan of Operations (SUPO) has been prepared for Coleman Oil & Gas, Inc (Coleman) proposed Lybrook Fed Com 23-6-19 GP #001H Application for Permit to Drill (APDs). This SUPO is in accordance with Onshore Oil and Gas Order No. 1, 43 Code of Federal Regulation (CFR) 2804.12 and 43 CFR 2884.11. The below information is provided to the surface management agency to give an accurate account of the proposed action for National Environmental Policy Act (NEPA) disclosure.

Coleman Oil & Gas will comply with all applicable laws, regulations, Onshore Orders, Conditions of Approvals (COA) attached to the approved APD's and this SUPO. No additional surface disturbance beyond that authorized by the approved APDs will be initiated without prior approval by the Authorized Officer (AO). Coleman Oil & Gas may utilize any of their existing well locations or water recycling facility locations as staging areas during project construction, drilling, and completion phases. Any damage incurred to previously interim reclaimed surfaces, as a result of staging, would be promptly repaired and reclaimed following use.

1. EXISITNG ROAD

A. The project area is located in Sandoval County, New Mexico. To access the project area from the intersection of U.S. Highway 550 & U.S. Highway 64. Travel south on Hwy 550 for 51.1 miles, 3.2 miles West of Counselor, NM, turn Right (Southerly) 300'. Turn left (easterly then southerly) 1.1 miles. The beginning of new access on the left (East) side of the filed road which begins and continues southeasterly for 267.91' to the new location (Appendix H).

B. For existing County Roads or roads that are considered collector roads, Coleman Oil & Gas will defer to the county or to the Roads Committee, when formed, for maintenance determinations. Road will be maintained to the same or better conditions as existed prior to the commencement of operations, and maintenance will continue until final abandonment of the well location and associated facilities.

C. Best Management practices (BMPs) for dust abatement would be utilized along the roads to reduce fugitive dust during construction, drilling, completion, and any other heavy traffic activities during the life of the project. Water application using a rear- spraying truck or other suitable means would be primary method of dust suppression along the roads. Any additional erosion-control practices, such as the application of magnesium chloride, organic-based compounds, or polymer compounds to the roads, will be included in the COAs attached to the approved APDs.

D. No routine maintenance activities would be performed during periods when the soil is too wet to adequately support construction equipment. If

equipment creates ruts deeper than six inches, the soil would be deemed too wet for construction or maintenance.

E. The access road will be maintained as outlined in the Road Maintenance Plan (Appendix B). At final abandonment, the access road will be reclaimed as described in the Reclamation Plan.

2. NEW OR RECONSTRUCTED ACCESS ROADS

A. Coleman Oil & Gas would construct approximately 267.91-feet of road to access the well pad location. The access was identified as a Resources Road during the on-site visit. The proposed road is shown on Appendix H.
B. The proposed 267.91-foot access road would be designed and maintained in accordance with the Gold Book: Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development and BLM Manual 9113, Sections 1 and 2.
C. The proposed access road would be constructed within a 30-foot-wide ROW with a running 14-foot-wide corridor to accommodate clearing, cut-and-fill slopes, and drainage ditches. The proposed access road would be built up to 18 to 24 inches following The Gold Book and BLM Handbook 9113 standards. The road would be constructed to meet the standards for anticipated traffic flow and all-weather requirements. Surfacing material would be used, if economically viable. The maximum road grade would be no greater than 8 percent, unless specified by the BLM.
D. No construction or routine maintenance activities will be performed during periods when the soil is too wet to adequately support construction equipment. If equipment creates ruts deeper than 6 inches, the soil will be deemed too wet for construction or maintenance.
E. BMPs for dust abatement and erosion control will be utilized along the road to reduce fugitive dust for the life of the project. Water applications using a rear-spraying truck or other suitable means, will be the primary method of dust suppression along the road. Any additional erosion-control practices, such as the application of magnesium chloride, organic-based compounds, or polymer compounds to the road, will be included in the COAs attached to the approved APD.
F. The access road will be maintained as outlined in the Road Maintenance Plan (Appendix B). At final abandonment, the access road will be reclaimed as described in the Reclamation Plan (Appendix A).

3. LOCATION OF EXISTING WELLS

Water wells and oil and gas wells (plugged and abandoned, active, proposed) within a one-mile radius of the Lybrook Fed Com 23-6-19 GP #001H project are depicted in Appendix D. There are 0 water wells and 22 oil and gas wells

(plugged and abandoned, active, proposed within a mile radius of the proposed well pad location.

4. LOCATION OF EXISTING OR PROPOSED PRODUCTION FACILITIES

A. Survey Monuments

1. Coleman Oil & Gas would protect all survey monuments, witness corners, and reference monuments during construction, operation, maintenance, and termination of the facilities. The BLM Authorized Officer will be immediately notified in the event that any corners, monuments, or markers are disturbed or anticipated to be disturbed. Coleman Oil & Gas will secure the services of a Registered Land Surveyor to restore any corners, monuments, or markers in the event the disturbance does occur. The surveyor will use procedures found in the Manuel of Surveying Instructions for the Survey of Public Lands in the United States. Recordation of the survey will be in compliance with State of New Mexico regulations.

B. Pipeline

1. Coleman Oil & Gas will mark the exterior boundaries of the proposed pipeline ROW with stake and/or lath at 100-to-200-foot intervals. The stakes and/or laths will be flagged in a distinctive color as determined by the holder. The survey station numbers will be marked on the boundary stakes and/or laths at the entrance to and the exit from BLM lands. The holder shall maintain all boundary stakes and/or laths in place until the final cleanup and restoration is completed and approved by the BLM-FFO. The stakes and/or laths will then be removed.
2. The connection ends of the pipelines and waterline would be located at the intersection of the existing road and well gathering system owned by Whiptail in Section 18, Township 23 North, Range 06 West and at the proposed well pad in Section 19 Township 23 North Range 06 West.

C. Production Facility

1. Production facilities for the Lybrook Fed Com 23-6-19 GP #001H would be located within a 250-foot by 100-foot facility area on the north-northwest end of the proposed well pad. (Appendix G) to allow for maximum interim reclamation and revegetation of the well location.

5 . LOCATION AND TYPES OF WATER SUPPLY

Lybrook Fed Com 23-6-19 GP #001H well will be horizontally drilled and completions will include well stimulation (hydraulic fracturing). Produced, recycled, non-portable, and fresh water might all be used. Coleman Oil & Gas would ensure that all water would be obtained legally and that all required permits would be completed prior to obtaining water.

Fresh water will be used as a supplement only if necessary and will be sourced from commercially available sources such as the Hilltop supply, Smesler Water Hole (RG-68550-POD1 – POD2) and/or Community Water COOP (SJ 02559) locations indicated on the attached map (Appendix E). Produced water sources will be tied via pipeline to the location and be the primary water source.

Coleman OIL & Gas proposes utilizing produced water for drilling. Use of produced water from existing wells for drilling fluid is authorized under New Mexico State Regulations (NMAC 19.15.2.52). Approximately 2500-3500 barrels of water is estimated to be needed for drilling each well. Coleman Oil & Gas may choose to use fresh water for drilling if sufficient produced water is not available.

It is estimated that 600,000 barrels (+/- 15%) of produced water (or fresh if required to make volume) would be required for completion of each well. Approximately 10% of the produced water from completions may be recovered for reuse for subsequent operations if the program allows.

Pumping is expected to operate up to 24 hours per day for up to 90+ days or until sufficient water volume is achieved. Temporary lines may be used from the proposed TUA to the pad (319.92' along road ROW) and would be in place to accommodate well completions. Coleman Oil & Gas' current plan to complete four wells simultaneously could take up to 37 days, if done individually, completion should take approximately 15-20 days.

Flowback fluids and unused water would be pumped via the proposed waterline to the produced water disposal system this pipeline ties into.

6. CONSTRUCTION MATERIALS

All surface infrastructure would be constructed utilizing native borrow within the permitted area to create a balanced working surface. Surfacing material of fill material, such as sandstone, gravel, pit run, or road base would be used if needed and economically viable and would be obtained from an approved location. Coleman will maximize the use of native material within the proposed project area to reduce or eliminate the need to haul in foreign materials.

Material may be imported and used for any of the following reasons: low water crossings (pit run and road base), road surfacing (road base, gravel or sandstone), erosion control (riprap cobble stone), barricades (boulders), under and surrounding equipment (gravel), and filling soft or muddy areas (sandstone, pit run, road base or gravel).

A map of borrow pit location where Coleman Oil & Gas may obtain material can be found in Appendix F. The borrow pits are labeled with operating company name if applicable and legal location to the quarter-quarter.

A. Access Road

1. The access road will be designed and constructed in accordance with The Gold Book: Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development and BLM Manual 9113. The proposed access

road will be crowned and ditched or sloped and dipped, and water turnouts installed as necessary to provide proper drainage.

2. At the onsite, it was determined that not cattle guards or fences will be required.
3. Any needed culverts will be installed where needed as needed.
4. Any additional need for water-control features, such as diversions and/or silt traps, will be determined at interim reclamation.
5. All construction materials for the access road will consist of native borrow and subsoils from road and well pad construction.
6. All Coleman Oil & Gas approved locations may be utilized for staging.
7. Construction and maintenance activities will cease when soil and road surfaces become saturated to the extent that construction equipment is unable to stay within the project area and/or when activities cause irreparable harm to roads, soils, or streams.

B. Pipeline

1. The proposed pipeline system will consist of one trench hosting one steel natural gas line up to 16-inches, one 4-inch Hydrocarbons (oil) pipeline and one 4-inch waterline.
2. The proposed well-connect pipeline would be 4,986-feet in length. The pipeline does not parallel the access road for the entire distance to minimize the amount of disturbance area; therefore, it would be constructed within a 40-foot-wide pipeline corridor encompassing 4.58 acres. Overall disturbance is reduced by portions of the well-connect pipeline paralleling, overlapping, or crossing existing disturbance.
3. Prior to construction, the pipeline ROW will be re-staked at 100-to-200-foot intervals and, when applicable, BLM boundaries will be marked with station numbers at the entrance to and exit from BLM lands.
4. Soils will be excavated from the well-connect pipeline trenches using a trencher, backhoe, or excavator. The bottom of the trench will be dug at a depth of 4-feet. The trench will be a minimum of 32-inches in width to accommodate all 3 lines. Soft plugs will be placed within the trenches every ¼ mile. When stinging pipe, one joint of pipe will be set back every ¼ mile. After a pipe has been welded and coated, a side-boom tractor will be used to place the pipe into the trench.
5. All pipelines will be buried to a depth of 4-feet except at road crossings where they will be buried to a depth greater than 4-feet. In areas where the pipeline crosses and existing road, Colemand Oil & Gas will utilize the following backfill method. The pipeline trench will be backfilled with soil halfway and compacted, then whole intact sacks of Quickrete will be placed

side by side along the length of the trench across the road. The sacks will be placed with approximately 3 to 4 inches spacing between each sack. The road base will then be backfilled and compacted to the surface. This method has been shown to provide the best road stabilization and to alleviate potholes and depressions that often occur over the pipeline trench after backfill material settles over time.

6. Backfilling operations will be performed within a reasonable amount of time to ensure that the trenches are not left open for more than 24 hours. If a trench is left open overnight, it will be temporarily fenced, or a night watchman will be utilized. The excavated soils will be returned to the trenches, atop the pipe, and compacted to prevent subsidence. The trenches will be compacted after approximately 2-feet of fill is placed over the pipe and after the ground surface has been leveled.
7. Prior to the well-connected pipelines being placed in service, the pipes will be pressure tested.
8. Earthen berms will be constructed at each end of the ROW where it is separated from the road. The berms will be a minimum of 4-feet high with a 1-foot cut at the base facing away from the ROW (towards the direction of potential traffic).
9. Following construction, pipeline markers will be installed along the well-connect pipeline corridor within the line of sight. These markers will not create safety hazards.

A. Surface Pipelines
    1. Lay flat surface waterlines would be temporarily installed to transport water from the proposed TUA approximately 319.92’ to the proposed well pad for well stimulation.
    2. All lines in service will be inspected every day, several times a day.
    3. All temporary lines would be removed following well stimulation activities.

B. Well Pad
    1. The construction phase of the project will commence upon receipt of the approved APDs or as logistics, planning, and commodity prices allow.
    2. Vegetation and topsoil removal, storage, and protection are described in detail in the Reclamation Plan (Appendix A).
    3. The well pad will be leveled to provide space and a level surface for vehicles and equipment. Excavated materials from cuts will be used on fill portions of the well pad to level the pad. Construction will require a maximum fill of approximately 6-feet

on the north and west corners (corner 5 and 3 respectively), and a cut of 9 feet on the south corner (corner 2) to create a level well pad. The pad will have a slight slope toward the natural drainage direction to mitigate water collection on the pad surface. No additional surfacing materials will be required for construction.

4. As determined during the onsite on July 6, 2023, the following best management practices will be implemented:
    a. Culverts will be installed where needed as needed.
    b. Any additional need for water control features such as diversions and/or silt traps will be determined at interim reclamation.
    c. Diversions will be installed upon reclamation
    d. No additional fill would be required to construct the pad.
    e. Facilities will be painted Juniper Green
    f. Upon site clearing, vegetation including trees that measure less than 3-inches in diameter (at ground level) and slash/brush, will be chipped or mulched and incorporated into the topsoil as additional organic matter. If trees are present, all trees 3-inches in diameter or greater (at ground level) will be cut to ground level and delimbed.
    g. The top six (6) inches of topsoil will be stripped (if available) and stored separately on the construction buffer zone.
5. All project activities will be confined to permitted areas only.
6. Construction equipment may include chain saws, a brush hog, scraper, maintainer, excavator, trencher, backhoe, and a dozer.
7. One or more lake tanks up to 60,000-barrel capacity would be installed at the TUA, or on the proposed well pad for short term storage of water needed for well completions. Only fresh water would be stored in the lake tank(s).
8. Extra storage tanks could also be installed for storage of additional fresh water and/or produced water if needed for completions as well as for produced water for drilling and for storage of frac flowback. All water remaining in these tanks after completions would be hauled away by truck for reuse in other oil and gas operations or for disposal at permitted locations.
9. Stormwater Best Management Practices (BMPs) would be installed and maintained as necessary.
10. If drilling has not been initiated on the well pad within 120 days of the well pad being constructed, the operator will consult with the BLM to address a site-stabilization plan.

C. Production Facilities
   1. As practical, access will be a teardrop-shaped road through the production area to allow for maximum revegetation during interim reclamation.
   2. Within 90 days of installation, production facilities would be painted Juniper Green to blend with the natural color of the landscape and would be located, to the extent practical, to reasonably minimize visual impact.
   3. Berms will be constructed around all storage facilities sufficient in size to contain the storage capacity of tanks. Berm walls will be compacted with appropriate equipment to assure containment.
   4. After the completion phases and pipeline installation, portions of the project area not needed for operation will be reclaimed. When the well is plugged, final reclamation will occur within the remainder of the project area. Reclamation is described in detail in the Reclamation Plan (Appendix A).

7. METHODS FOR HANDLING WASTE

A. Cuttings
   1. Drilling operations would utilize a closed-loop system. Drilling of the horizontal laterals would be accomplished with water-based mud. Oil based mud could be used contingent on formation properties encountered. All cuttings would be placed in roll-off bins and hauled to a commercial disposal facility or land farm. Coleman Oil & Gas will follow Onshore Oil and Gas Order No. 1 regarding the placement, operation, and removal of closed-loop systems. No blow pit would be used.
   2. Closed-loop tanks would be adequately sized for containment of all fluids.

B. Drilling Fluids
   1. Drilling fluids would be stored onsite in above-ground storage tanks. Upon termination of drilling operations, the drilling fluids would be recycled and transferred to other permitted closed-loop systems or disposed of at one of the locations specified below in part H.

C. Spills
   1. Any spills of non-freshwater fluids would be immediately cleaned up and removed to an approved disposal site.

D. Sewage
   1. Portable toilets would be provided and maintained as needed during

construction, drilling and completions operations.

E. Garbage and other waste material
1. All garbage and trash would be placed in enclosed metal trash containers. The trash and garbage would be hauled off site and dumped in an approved landfill, as needed.

F. Hazardous Waste
1. No chemicals subject to reporting under Superfund Amendments and Reauthorization Act Title Ill in an amount equal to or greater than 10,000 pounds would be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completion of these wells.
2. No extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities would be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of these wells.
3. All fluids (i.e., scrubber cleaners) used during washing of production equipment would be properly disposed of to avoid ground contamination or hazard to livestock or wildlife.

G. Flowback:
1. Flowback transported off location will consist of approximately 2500 bbls of produced water per day for approximately 30 days.
2. Flowback fluid would be gathered, recycled, and reused as described in Section 5. If there are no foreseen drilling and completion operations, flowback would be disposed of at one of the disposal wells listed below.

H. Produced Water:
1. Coleman Oil & Gas would dispose of produced water via the produced water gathering system that the proposed waterline ties into. Produced water may be gathered and used in future drilling and completion operations as an alternative disposal method.

8. ANCILLARY FACILITIES

Standard drilling operation equipment that will be on location includes drilling rig with associated equipment, temporary trailers equipped with sleeping quarters necessary for company personnel, toilet facilities, and trash containers.

9. WELL SITE LAYOUT

Topsoil removal, storage, and protection is described in detail in the Surface Reclamation Plan (Appendix A). During construction, the proposed well pad would be leveled to provide adequate space and a level working surface for vehicles and equipment. Excavated materials from cuts would be used on fill portions of the well pad to level the surface. The approximate cuts, fills, and well pad orientation is shown on the cut/fill worksheet and cross section diagrams in the survey plats found in Appendix C. Additionally, please see Appendix G for the proposed Well Pad Facility Diagram showing long term well pad layout, reclamation areas, and disturbance acreage; Well Pad Drilling Diagrams showing the location and orientation of the drill rig; and the Well Pad Completion Diagram, showing the location and orientation of the completion equipment.

Drilling of the proposed well would require the construction of a 500-foot by 500-foot well pad (5.55 acres). A 50-foot construction zone is proposed on the west, north and east sides of the proposed pad (2.06 acres). This entire area would be utilized during construction, setting of production equipment, drilling and completion phases.

10. PLANS FOR SURFACE RECLAMATION

A Reclamation Plan was prepared in accordance with Procedure B of the BLM-FFO Bare Soil Reclamation Procedures. Procedures B is required for surface disturbing actions, grants, or permits authorized by the BLM-FFO resulting in bare mineral soil across an area greater than or equal to 1 ace, not including a BLM-FFO approved working area. Based on observations made during the pre-disturbance site visit, the BLM-FFO representative has determined that the vegetation community which best represents the proposed project area is Pinyon-Juniper Community.

The noxious weed pre-construction survey results and methods for controlling and preventing noxious weeds are provided in the Reclamation Plan (Appendix A). Prior to construction equipment entering the project area, operators will use BMPs for noxious weeds. The operator will comply with applicable federal and state laws and regulations concerning the use of pesticides. The operator will acquire approval from the BLM-FFO prior to the use of pesticides.

11. SURFACE OWNERSHIP

The project is located on BLM-managed land. The field office contact information is:

Bureau of Land Management
Farmington Field Office
6251 College Blvd Suite A
Farmington, NM 87402
(505) 564-7600

12. OTHER INFORMATION

1. Construction contractors will call New Mexico One-Call (or equivalent) to identify the location of any marked or unmarked pipelines or cables located in proximity to the proposed well pad, access road, and pipeline at least two working days prior to ground disturbance.
2. The project area has been surveyed by Adkins Environmental Consultants. The cultural survey report will be submitted directly to the surface managing agencies. Cultural mitigation, monitoring, and implementation of site protection barriers would occur if stipulated in the COAs attached to the approved APDs.
3. All activities associated within the construction, use/operation, maintenance, and abandonment or termination of the Lybrook Pad are limited to areas approved in the Lybrook Fed Com 23-6-19 GP #001H APD.
4. All Coleman Oil & Gas approved locations may be utilized for staging. All BLM-FFO general COAs will apply to this.

APPENDIX A

SURFACE RECLAMATION PLAN

RECLAMATION PLAN

for

LYBROOK FED COM 23-6-19 GP #001H
977' FNL & 251' FEL
Sec 19, T23N, R6W
Sandoval County, New Mexico

Prepared for

Coleman Oil & Gas
PO Drawer 3337
Farmington, NM 874099

September 2023

332 Rd 3100
Aztec, New Mexico 87410
Phone: (505) 327-4892

Table of Contents

Applicant	Coleman Oil & Gas
Project Type	Reclamation of a natural gas well site.
Well, Oil and Gas Lease, or Right-of-Way (ROW) Name	Lybrook Fed Com 23-6-19 GP #001H
Legal Location	977' FNL 251' FEL Section 19, Township 23 North, Range 06 West Sandoval County, NM
Lease Number(s)	

1. INTRODUCTION

Coleman Oil & Gas is providing this Revegetation Plan to the Bureau of Land Management – Farmington Field Office (BLM-FFO) for the Lybrook Fed Com 23-6-19 GP #001H. During interim and final reclamation, Coleman Oil & Gas will meet the reclamation standards provided in this plan to re-establish vegetation and control noxious weeds and erosion. This reclamation plan has been prepared to meet the requirements and guidelines of the Bureau of Land Management (BLM) Farmington Field Office (FFO) Bare Soil Reclamation Procedures (BLM 2013a) and Onshore Oil and Gas Order No. 1. Coleman Oil & Gas will be responsible for all surface disturbance authorized by the approved APDs until the permits are transferred or they obtain a Final Abandonment Notice (FAN) or relinquishment from the BLM-FFO

Coleman Oil & Gas may submit a request to the BLM/FFO to revise the Reclamation Plan at any time during the life of the project in accordance to page 44 of the Gold Book (USDI-USDA 2007). Coleman Oil & Gas will include justification for the revision request.

Coleman Oil & Gas contact person for this Reclamation Plan is:

Arleen Smith, Regulatory
Walsh Engineering & Production
332 Road 3100
Aztec, New Mexico 87410
Phone: (505) 327-4892

2. PROJECT DESCRIPTION

The project area is located in Sandoval County, New Mexico. To access the project area from the intersection of U.S. Highway 550 & U.S. Highway 64. Travel south on Hwy 550 for 51.1 miles, 3.2 miles West of Counselor, NM, turn Right (Southerly) 300'. Turn left (easterly then southerly) 1.1 miles. The beginning of new access on the left (East) side of the filed road which begins and continues southeasterly for 267.91' to the new location.

2.1 Estimated Total Area of Disturbance

The Lybrook Fed Com 23-6-19 GP #001H well location would be 7.61 acres in size, which included a maximum 50-foot (ft) wide construction zone around the well pad location, to accommodate cuts and fills. TUA acreage is 4 turnouts = 0.26 acres and 0.85-acre existing pad. In addition, there would be a 267.91 ft by 30 ft (0.18 acre) access road. The proposed road would connect to an existing road, and a 4,986 x 40 ft (4.58 acres) pipeline corridor and a 319.92' x 10' (0.073 acre) of temporary lay flat line. The corridor would connect the Lybrook Fed Com 23-6-19

GP #001H well location, via a buried natural gas, oil, and water pipeline, to an existing gathering pipeline system. Total surface disturbance associated with the proposed well location, road, and pipeline corridor is 13.55 acres. (Table 1)

Table 1. Project Disturbance Estimates for the Proposed Project

Feature	Total Disturbance	New Disturbance	Fully Reclaimed	Interim Reclamation	Long-term Disturbance
Well Pad	7.61	7.61	4.29	.53	2.79
Access Road	0.18	0.18	0.10		0.08
Pipeline Corridor	4.58	4.58	4.58		
Temporary Lay Flat Line	0.073	0.073	0.073		
TUA	1.11	0.26	0.26	0.85	
Total:	**13.55**	**12.70**	**9.30**	**1.38**	**2.87**

3. PRE-DISTURBANCE SITE VISIT

The disturbance site visit occurred on July 06, 2023. The following persons were present at the site visit (Table 1).

Table 1. Site Visit Attendees

Name	Affiliation	Phone:
Dusty Mars	Walsh Engineering	970-759-2480
Michael Prop	ACI	505-604-1057
Carly Bentley	ACI (Bio)	970-769-0922
Brent	KOSF	505-419-2325
Emmanuel Adeloye	BLM	505-564-7665
Matt Strickler	JMJ/Coleman	405-306-6081
Glenn Russell	Vector Surveys	505-320-9595

3.1 Vegetation Community

Based on observations made during the pre-disturbance site visit, it has been determined that the vegetation community which best represents the proposed project area is classified as Pinyon and Juniper Woodland community.

3.2 Proposed Reclamation Seed Mix

Disturbance will be re-contoured, and topsoil will be redistributed and prepared for seeding by the construction contractor. Ripping, disking, and seeding of the site will be done by Coleman Oil & Gas construction contractor using the BLM-approved seed mix which is shown in Table 2. The proposed reclamation seed mix considers the existing vegetation on the proposed project site.

Table 2. BLM Farmington Field Office Pinyon Juniper Community Seed Mix

Pinyon-juniper community menu-based seed mix by habitat type for reclamation (minimum requirement) **

Common Name	*Scientific Names*	*Variety*	*Season*	*Form*	*PLS lbs/acre**
Plant one of the following:					
Mountain mahogany	*Cercocarpus montanus*	VNS	Warm	Shrub	2.0
Antelope bitterbrush	*Purshia tridentata*	VNS	Cool	Shrub	2.0
and two of the following:					
Western wheatgrass	*Pascopyrum smithii*	Arriba	Cool	Sod	2.0
Bottlebrush squirreltail	*Elymus elymoides*	Tusas or VNS	Cool	Bunch	3.0
Needleandthread	*Hesperostipa comata*	VNS	Cool	Bunch	3.0
and three of the following:					
Indian ricegrass	*Achnatherum hymenoides*	Paloma or Rimrock	Warm	Bunch	3.5
Blue grama	*Bouteloua gracilis*	Alma or Hachita	Warm	Bunch	2.0
Sand dropseed	*Sporobolus cryptandrus*	VNS	Warm	Bunch	0.5
Prairie Junegrass	*Koeleria macrantha*	VNS	Cool	Bunch	2.0
Muttongrass	*Poa fendleriana*	VNS	Cool	Bunch	2.0
and one of the following:					
Scarlet globemallow	*Sphaeralcea coccinea*	VNS	Warm	Forb	0.25
Utah sweetvetch	*Hedysarum boreale*	VNS	Warm	Forb	0.25

****Based on 60 pure live seeds (PLS) per square foot, drill seeded. Double this rate (120 PLS per square foot) if broadcast or hydroseeded.**

3.3 Vegetation Reclamation Standards

Requirements for determining reclamation and if it is successfully completed for the selected vegetation community are determined by the reclamation percent cover standards for the community, as outline in Table 3. These standards must be met during post-disturbance monitoring procedures in order for the Bureau of Land Management to sign off on the attainment of vegetation reclamation standards.

Table 3. Reclamation Goal for Juniper Woodland Community

Functional Group	*Percent (%) Foliar Cover*	*Common Species*
Trees/Shrubs/Grasses/Forbs	≥35	Utah juniper, Pinyon pine; big sagebrush, four-wing saltbrush, Antelope bitterbrush, alkali sacaton, western wheatgrass, Indian ricegrass, galleta, sand dropseed, scarlet globmallow, wooly Indianwheat, fleabane, Penstemon spp., buckwheat, threadleaf groundsel
Invasive/undesirables 10% allowed toward meeting standard of 35%.	≤10	Plants that have the potential to become a dominant species on a site where its presence is a detriment to revegetation efforts or the native plant community. Examples of invasive species include cheatgrass, Russian thistle, kochia.

3.4 Weed Survey

During the site visit, the proposed action area was surveyed for noxious weeds listed on the New Mexico Department of Agriculture's Class A and Class B list. During the survey, no noxious weeds were found.

3.5 Soil Evaluation

Unless any stained soil is discovered during the surface reclamation, no soil testing will be necessary.

4. RECLMATION TECHNIQUES FOR SUCCESSFUL REVEGETATION

All activities with the construction, use/operation, maintenance and abandonment or termination of Lybrook Fed Com 23-6-19 GP #001H well project would be limited to areas approved in the APD. After the well is plugged and abandoned, a steel marker not less than four inches in diameter is set in cement and extends at least four feet above ground level. The operator's name, lease name and well number and location, including unit letter, section, township and range, shall be welded, stamped or otherwise permanently engraved into the marker's metal. All rig anchors and oil and gas equipment will be removed. All surface disturbance will be associated with the well location, access road, pipeline corridor, and ancillary facilities would be reclaimed and returned to as natural condition as possible.

4.1 Vegetation and Site Clearing

Vegetation removed during construction, including trees (if applicable) that measure less than three inches in diameter (at ground level) and slash/brush, would be chipped or mulched and incorporated into the topsoil as additional organic matter. If trees are present, all trees three inches in diameter or greater (at ground level) would be cut to ground level and delimbed. Tree trunks (left whole) and cut limbs would be stacked and made available to the public. The subsurface portion of trees (tree stumps) would be disposed of appropriately.

4.2 Topsoil Replacement

The upper six inches of topsoil (if available) would be stripped following vegetation mulching. Topsoil would not be mixed with the underlying subsoil horizons and would be stockpiled as a berm/windrow along the interior perimeter of the construction buffer zone. Topsoil and sub-surface soils would be replaced in the proper order, prior to final seedbed preparation. Redistribution of topsoil shall not be done when the ground or topsoil is wet. Vehicle/equipment traffic would not be allowed to cross topsoil stockpiles. If topsoil is stored for a length of time such that nutrients are depleted from the topsoil, amendments would be added to the topsoil as advised by the Coleman Oil & Gas environmental scientist or appropriate agent/contractor.

4.3 Water Management/Erosion Control Features

The BLM representative and the Coleman Oil & Gas representative would work in collaboration to develop site-specific erosion control or water management features and to identify installation locations. Potential erosion control or water management features that may be used include (but are not limited to) water bars or rolling dips for roads, sediment basins or sediment traps, check dams, silt fencing, bellholes upstream of culverts, outlet protection for culverts, erosion control blankets, straw bales, and straw wattles.

- A culvert would be installed at the intersection with the existing roadway to allow for sufficient drainage within the disturbance.
- A minimum of one (1) 24-inch culvert would be placed at the topographically low area that intersects the new access road. Additional culverts would be added as needed.

During interim reclamation, areas of the project that are not needed for long term well operations and maintenance will be recontoured to re-establish disturbed terrain and blend into the surrounding landscape. The natural drainage network would be re-established as practicable with necessary diversions and silt traps around the long-term project footprint.

4.4 Seedbed Preparation

For cut and fill slopes, initial seedbed preparation will consist of pushing (dozer)/excavation (excavator)/hauling (belly scraper) the unneeded fill slope material and placing it within the cut slopes. Natural rolling contours would be implemented to break up the surface and aid in removing signs of the sharp well pad corners once vegetation is established. Emphasis would be placed on restoration of the existing drainage patterns and landforms to preconstruction conditions, to the extent practicable.

Within areas that would be reseeded, stockpiled topsoil would be evenly redistributed prior to final seedbed preparation. Seedbed preparation within compacted areas will be ripped to a minimum depth of 18 inches, with a maximum furrow spacing of 2 feet. Where practicable, ripping will be conducted in two passes at perpendicular directions. If large clumps/clods result from the ripping process, disking would be conducted perpendicular to slopes in order to provide terracing and minimize runoff and erosion. Final seedbed preparation would consist of raking or harrowing the spread topsoil prior to seeding to promote a firm (but not compacted) seedbed without surface crusting. Seedbed preparation may not be necessary for topsoil

storage piles or other areas of temporary seeding.

4.5 Soil Amendments

Soil amendments would be added to the topsoil, if needed, as advised by the Coleman Oil & Gas environmental scientist or appropriate surface managing agency.

4.6 Seeding

The seed mix chosen for this project is listed in Table 2. Seeding would occur at the time of interim and final reclamation.

A disc-type seed drill or modified rangeland drill that allows for seeding species from different seed boxes at different planting depths will be used to seed the disturbed areas of the project area. Coleman Oil & Gas or its reclamation contractor will ensure that perennial grasses and shrubs are planted at the appropriate depth. Larger seeds (such as Indian ricegrass) would be planted at a depth of one to two inches, Intermediate size seeds (such as wheatgrasses and shrubs) will be planted at a depth of 0.5 inch and small seeds (such as alkali sacaton and sand drop seed) will be planted at a depth of 0.25 inch. In situations where differing planting depths are not practicable using available equipment, the entire seed mix will be planted no deeper than 0.25 inch. A drag, packer, or roller would follow the seeder to ensure uniform seed coverage and adequate compaction. Seed would be drilled perpendicular to slopes at practical in order to minimize runoff and erosion.

Drill seeding may be used on well-packed and stable soils that occur on gentler slopes and where equipment and drills can safely operate. Where drill seeding is not practicable due to topography, the reclamation contractor will hand-broadcast seed using a “cyclone” hand seeder or similar broadcast seeder. Seeds like Galleta (with florets) and winter fat (with fine hairs) may also be broadcast as they do not flow well through a seeder. Broadcast application of seed requires a doubling of the drill-seeding rate. The seed will then be raked into the ground, so the seed is planted no deeper than 0.25-inches below the surface.

4.7 Mulching

Based on the onsite, mulching should not be necessary but if needed hand seeding with hydro-mulch, excelsior netting, and/or mulch with netting could be utilized on cut and fill slopes. Mulch should be grass or straw spread at 2,000 to 3,000 pounds per acre, or approximately 1 to 2-inches deep. Mulching will consist of crimping certified weed-free straw or certified weed-free native grass hay into the soil.

Straw or native grass hay mulch can be applied by hand broadcasting or blowing to a relatively uniform depth of 2 to 3-inches, equivalent to a rate of approximately 2 tons per acre (one 74-pound bale per 800 square feet). When applied properly, approximately 20 to 40 percent of the original ground surface will be visible.
Straw or native grass hay mulch will then be anchored using one of the following methods:

Hand Punching - a spade or shovel is used to punch mulch into the topsoil at 1-foot intervals until all areas have mulch standing perpendicular to the slope and the mulch is embedded at least 4-inches into the soil.
Roller Punching - a roller is used to spread mulch over an area; the roller is equipped with

straight studs not less than 6-inches long, from 4 to 6-inches wide, and approximately 1 inch thick. Crimper Punching - similar to roller punching, a crimper is used over the soil. The crimper has serrated disk blades about 4 to 8-inches apart that force the mulch into the soil. Crimping should be done in two directions with the final pass across the slope. Mulch applications in extremely clayey soils should be evaluated carefully to avoid developing an adobe mixture. In these cases, a soil amendment may be beneficial.

4.8 Noxious and Invasive Weed Control

Should noxious or invasive weeds be documented on any portion of the action area location on BLM managed lands after earthwork and seeding activities, the BLM-FFO coordinator will be notified and Coleman Oil & Gas will provide a weed management plan and if necessary, a pesticide use proposal, only pesticides authorized for use on BLM lands would be used and applied by a licensed pesticide applicator. The use of pesticides would comply with federal and state laws and be used only in accordance with their registered use and limitations. Colemand Oil & Gas weed-control contractor would contact the BLM-FFO prior to using these chemicals,

4.9 Revegetation Success for Final Abandonment

In order to reach a final abandonment status for disturbance and reclamation on BLM-manages lands, reclamation efforts must reach a uniform vegetative cover of native plant species. Requirements for determining reclamation and its successful completion of the selected vegetation community on BLM lands is determined by the reclamation percent cover standards for the community, as outlined previously in Table 3. These standards must be met on BLM managed lands during post-disturbance monitoring procedures in order for the BLM-FFO to sign off on the attainment of vegetation reclamation standards.

Revegetation percent cover standards will be attained, documented, and submitted to the BLM-FFO by Coleman Oil & Gas, or an exception granted before the BLM-FFO will approve a final abandonment notice (FAN) or relinquishment.

5. MONITORING REQUIREMENTS

Monitoring activities will be initiated after the project is completed, during the post-disturbance earthwork and seeding inspection process. Operator will contact BLM/BIA when ready for Final Abandonment Notice (FAN) inspection.

5.1 Post-Reclamation Monitoring Initiation

After the well has been plugged and the reclamation work and seeding have been completed, a post-disturbance inspection at the project site will occur. The operator will contact BLM to initiate an onsite inspection.

5.2 Annual Monitoring

If needed, Coleman Oil & Gas will begin annual monitoring of the photo points, and the

vegetation line point intercept transects 2 calendar years after the completion and approval of the final earthwork and seeding. Monitoring may occur any time of the year. A completed monitoring report of the permanent photo points will be submitted by Coleman Oil & Gas to Bureau Land Management by December 31of the year the site is monitored. Within 60 days after receipt, the Bureau Land Management will acknowledge that the report has been received and evaluated. Vegetation line point intercept transects will be monitored annually until attainment of vegetation reclamation cover standards have been met. Colman Oil & Gas will keep a record of the monitoring for future submittal to the Bureau Land Management at reclamation attainment.

5.3 Attainment of Vegetation Reclamation Standards

When vegetation on a reclaimed site appears to meet the required percent revegetation standard, Coleman Oil & Gas will submit to the Bureau Land Management a written request for concurrence that revegetation standards have been attained. The request will include all annual transect data sheets and a current set of monitoring photographs. The Bureau Land Management will review the request and approve or deny the request within 60 days of receipt. If the request is denied, the Bureau Land Management may initiate a site inspection within 60 days of the denial to analyze the site and determine if remedy actions may be appropriate.

5.4 Long-Term Monitoring

If needed, after the required percentage revegetation standard has been attained, Coleman Oil & Gas will begin long-term monitoring per BLM directions.

5.5 Final Abandonment

Revegetation percent cover standards will be attained, documented, and submitted to the Bureau Land Management by Coleman Oil & Gas or an exception granted before the Bureau Land Management will approve a final abandonment notice (FAN) or relinquishment.

Upon final reclamation, the location will be returned to pre-disturbance conditions as practicable.

5.6 Cessation of Monitoring

Monitoring requirements will remain in effect as long as the permit, grant, or authorization remains in effect and until all infrastructure or associated facilities are abandoned by established BLM procedure and a FAN or relinquishment is issued by the Bureau Land Management. Coleman Oil & Gas will document that percent cover standards have been attained when submitting a request for a FAN or relinquishment.

6. REFERNCES

43 CFR Part 3160, "Onshore Oil and Gas Order No. 1; Onshore Oil and Gas Operations; Federal and Indian Oil and Gas Leases; approval of Operations," 72 Federal Register 44 (March 2007), pp. 10328- 10338.

U.S. Department of the Interior, U.S. Department of Agriculture (USDI, USDA). 2007. Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development. BLM/WO/ST-06/021+307/REV07. Bureau of Land Management, Denver, Colorado. 8

APPENDIX B

ROAD MAINTENANCE PLAN

ROAD MAINTENANCE PLAN

for

LYBROOK FED COM 23-6-19 GP #001H
977' FNL & 251' FEL
Sec 19, T23N, R6W
Sandoval County, New Mexico

Prepared for
Coleman Oil & Gas, Inc
PO Drawer 3337
Farmington, NM 87499

SEPTEMBER 2023

WALSH ENGINEERING & PRODUCTION CORP.

332 Rd 3100
Aztec, New Mexico 87410
Phone: (505) 327-4892

1. INTRODUCTION

The following Road Maintenance Plan will be implemented and followed by Coleman Oil & Gas, Inc. for roads utilized in its San Juan Basin Operations. All roads will be constructed and maintained to meet the Bureau of Land Management (BLM) Gold Book Standards and BLM Manuals 9113-1 (Road Design Handbook) and BLM Manuals 9113-2 (Roads National Inventory and Condition Assessment Guidance and Instructions Handbook).

2. ROAD INSPECTIONS

Coleman Oil & Gas, Inc Representatives will formally inspect the road biannually, in the spring and fall, to assess the condition of the road. The formal road inspection will be recorded on a Road Inspection Form (blank form attached to this Plan). Completed Road Inspection Forms will be kept on file at Coleman Oil & Gas, Inc and can be provided to the BLM-FFO, if requested.

Additionally, outside of the formal inspection period, Coleman Oil & Gas, Inc Representatives driving to/from the project area **will** assess the condition of the road and notify the San Juan Resources, Inc Construction Supervisor if maintenance is needed.

Road maintenance activities will be documented at Coleman Oil & Gas, Inc. and can be provided to the BLM-FFO, if requested.

3. ROAD MAINTENANCE

The following maintenance may be performed on an as needed basis:

- Water control structures (such as culverts, ditches, and silt traps) and/or cattle guards may be cleaned. If this occurs, the soil/sediment material will be spread to area roads or locations.
- Bar ditches may be pulled.
- Low water crossings and drainage dips may be cleared and/or repaired.
- Crowning may be repaired
- Litter may be collected
- Noxious weeds may be treated or controlled following the BLM-FFO noxious weed guidelines.
- The access road may be bladed.

ROAD INSPECTION FORM

Road Name:	County:
Date:	Time:
Weather:	
Inspector(s):	
Road Surface Type:	

Road Condition Inspection Items	Road Condition		
	Good	Poor	Comment
Water Control Structure(s)			
Low Water Crossing(s)			
Road Crowning/Ruts/Potholes			
Road Surfacing			
Cattle Guard(s)			
Litter			
Noxious Weeds Within/Adjacent to Roadway			
Vegetation Within Roadway			

Additional Site-Specific Inspection Notes:

APPENDIX C

SURVEY PLATS

Form C-102	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024
Submit Electronically Via OCD Permitting		Submittal Type: ☒ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
	97232	BASIN MANCOS

Property Code	Property Name	Well Number
	LYBROOK FED COM 23-6-19 GP	001H

OGRID No.	Operator Name	Ground Level Elevation
4838	COLEMAN OIL & GAS, INC.	7048

Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal | Mineral Owner: ☐ State ☒ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Feet from N/S	Ft from E/W	Latitude	Longitude	County
A	19	23N	6W		977 NORTH	251 EAST	36.215355°N NAD83	107.501281°W NAD83	SANDOVAL

Bottom Hole Location

UL	Section	Township	Range	Lot	Feet from N/S	Ft from E/W	Latitude	Longitude	County
A	21	23N	6W		660 NORTH	100 EAST	36.215808°N NAD83	107.465008°W NAD83	SANDOVAL

Dedicated Acres: SEC 20: N2/N2 (320 ACRES) SEC 21: N2/N2 (320 ACRES) = 640 ACRES	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
			N	

Order Numbers: | Well setbacks are under Common Ownerships: ☐ Yes ☐ No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet from N/S	Ft from E/W	Latitude	Longitude	County
D	20	23N	6W		660 NORTH	100 WEST	36.216210°N NAD83	107.500106°W NAD83	SANDOVAL

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet from N/S	Ft from E/W	Latitude	Longitude	County
D	20	23N	6W		660 NORTH	100 WEST	36.216210°N NAD83	107.500106°W NAD83	SANDOVAL

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet from N/S	Ft from E/W	Latitude	Longitude	County
A	21	23N	6W		660 NORTH	100 EAST	36.215808°N NAD83	107.465008°W NAD83	SANDOVAL

Unitized Area or Area of Uniform Interest	Spacing Unit Type: ☒ Horizontal ☐ Vertical	Ground Floor Elevation:

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I futher certify that this organization has received the concent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool of formation) in which any part of the well's completed interval will be located of obtained a compulsory pooling order from the division.

Shawna Martinez 11/22/2024
Signature Date

Shawna Martinez
Printed Name

Shawna@walsheng.net
E-mail Address

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.

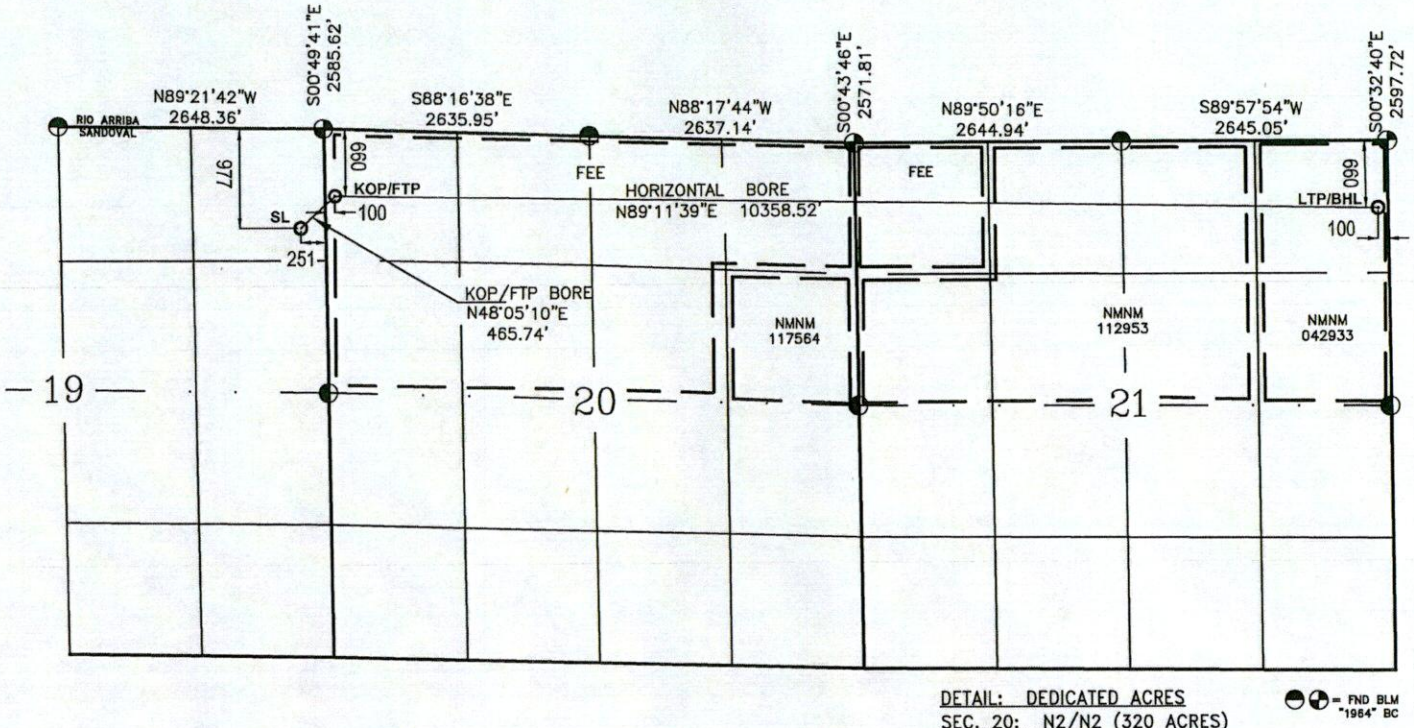
GLEN W. RUSSELL NEW MEXICO 15703 LICENSED PROFESSIONAL SURVEYOR

GLEN W. RUSSELL
Signature and Seal of Professional Surveyor:

Certificate Number	Date of Survey
15703	NOVEMBER 19, 2024

Note: 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.

COLEMAN OIL & GAS, INC.
LYBROOK FED COM 23-6-19 GP #001H



DETAIL: DEDICATED ACRES
SEC. 20: N2/N2 (320 ACRES)
SEC. 21: N2/N2 (320 ACRES)
TOTAL = 640 ACRES

= FND BLM "1964" BC

SURFACE (SL)
977' FNL, 251' FEL SEC. 19
LAT: 36.215355° N
LONG: 107.501281° W NAD83

FIRST TAKE POINT (FTP)
660' FNL, 100' FWL SEC. 20
LAT: 36.216210° N
LONG: 107.500106° W NAD83

BOTTOM HOLE (BHL)
660' FNL, 100' FEL SEC.21
LAT: 36.216808° N
LONG: 107.465008° W NAD83

KICK OFF POINT (KOP)
660' FNL, 100' FWL SEC. 20
LAT: 36.216210° N
LONG: 107.500106° W NAD83

LAST TAKE POINT (LTP)
660' FNL, 100' FEL SEC.21
LAT: 36.216808° N
LONG: 107.465008° W NAD83

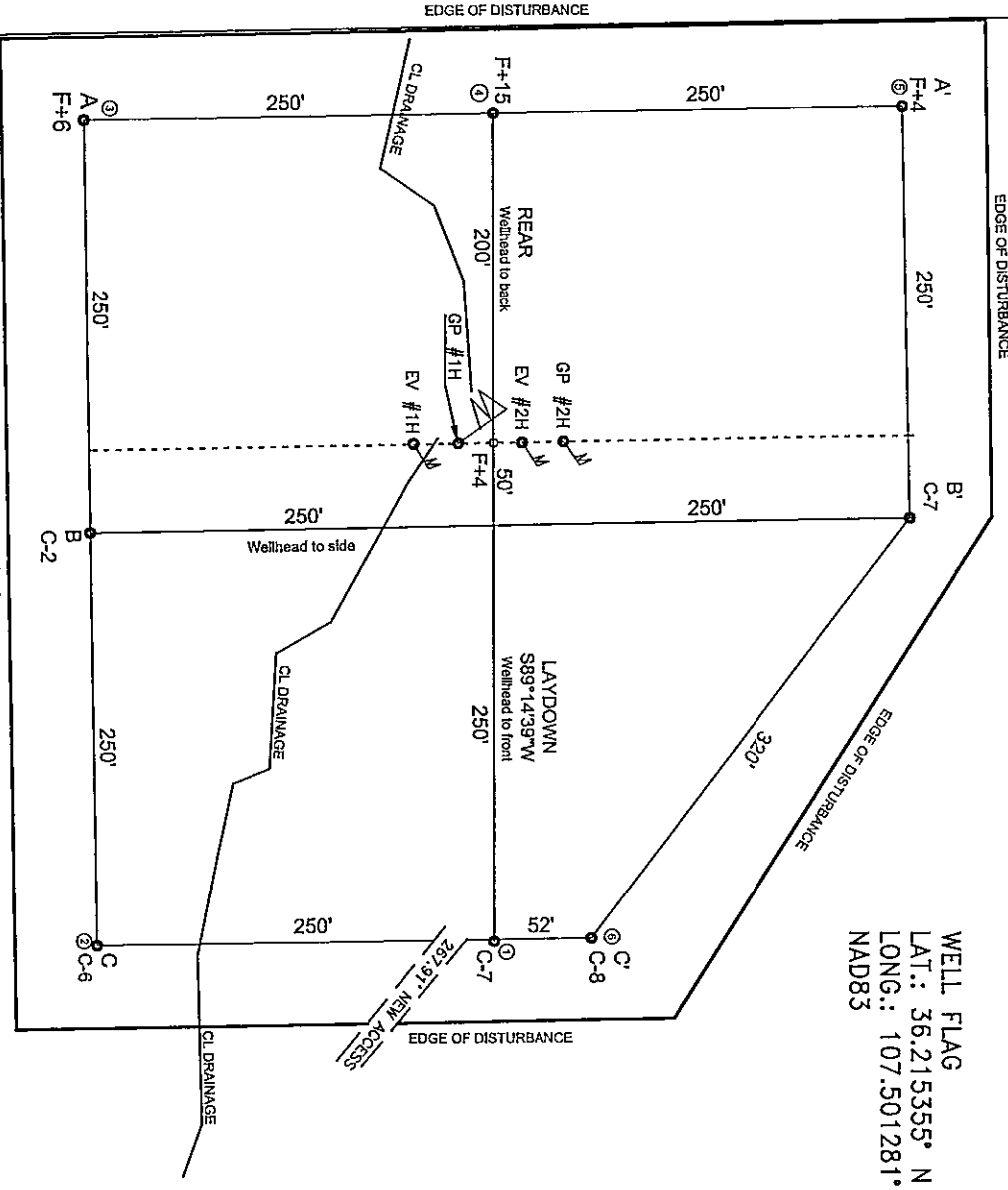
GP #1H

977' FNL & 251' FEL

SECTION 19, T-23-N, R-6-W, NMPM, SANDOVAL COUNTY, NM

GROUND ELEVATION: 7048', DATE: MAY 25, 2022

FINISHED PAD ELEVATION: 7053'



WELL FLAG
LAT.: 36.215355° N
LONG.: 107.501281° W
NAD83

TRUE NORTH

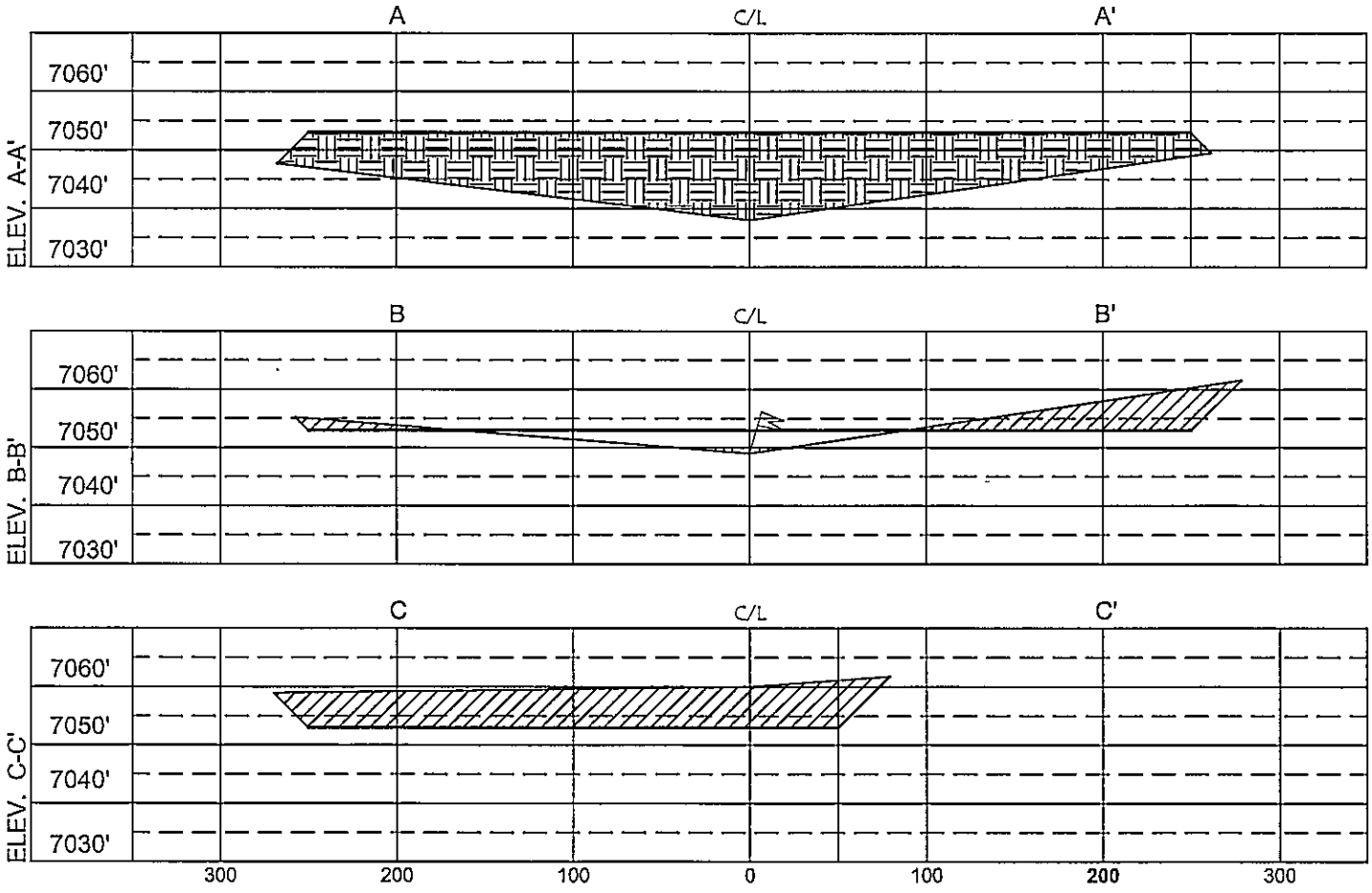
Scale: 1" = 500'

250' 0 250' 500'

NOTES:

1. VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

GP #1H
977' FNL & 251' FEL
SECTION 19, T-23-N, R-6-W, NMPM, SANDOVAL COUNTY, NM
GROUND ELEVATION: 7048', DATE: MAY 25, 2022
FINISHED PAD ELEVATION: 7053'

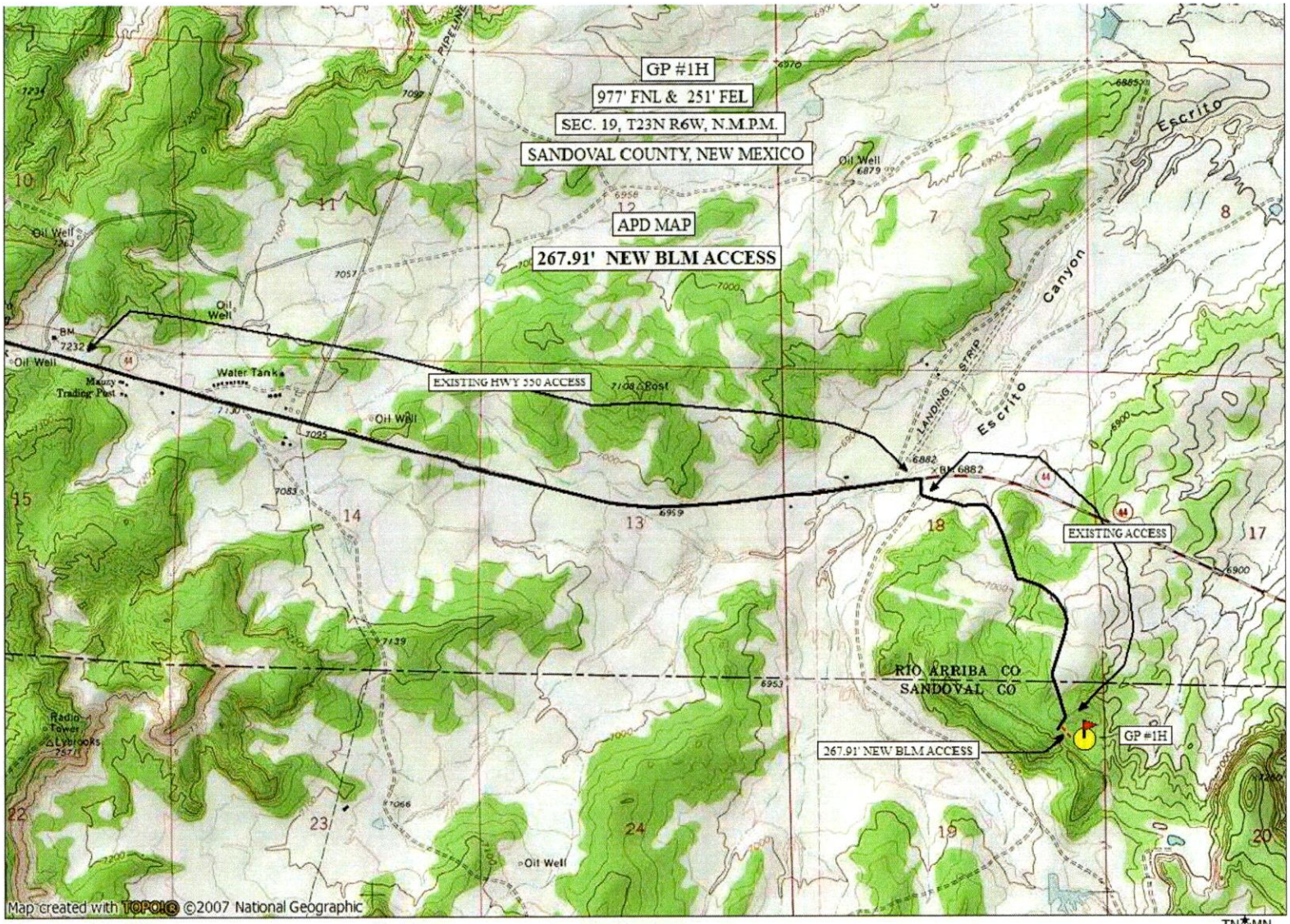


HORIZ. SCALE: 1" = 100'
VERT. SCALE: 1" = 33.3'

NOTE:
VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

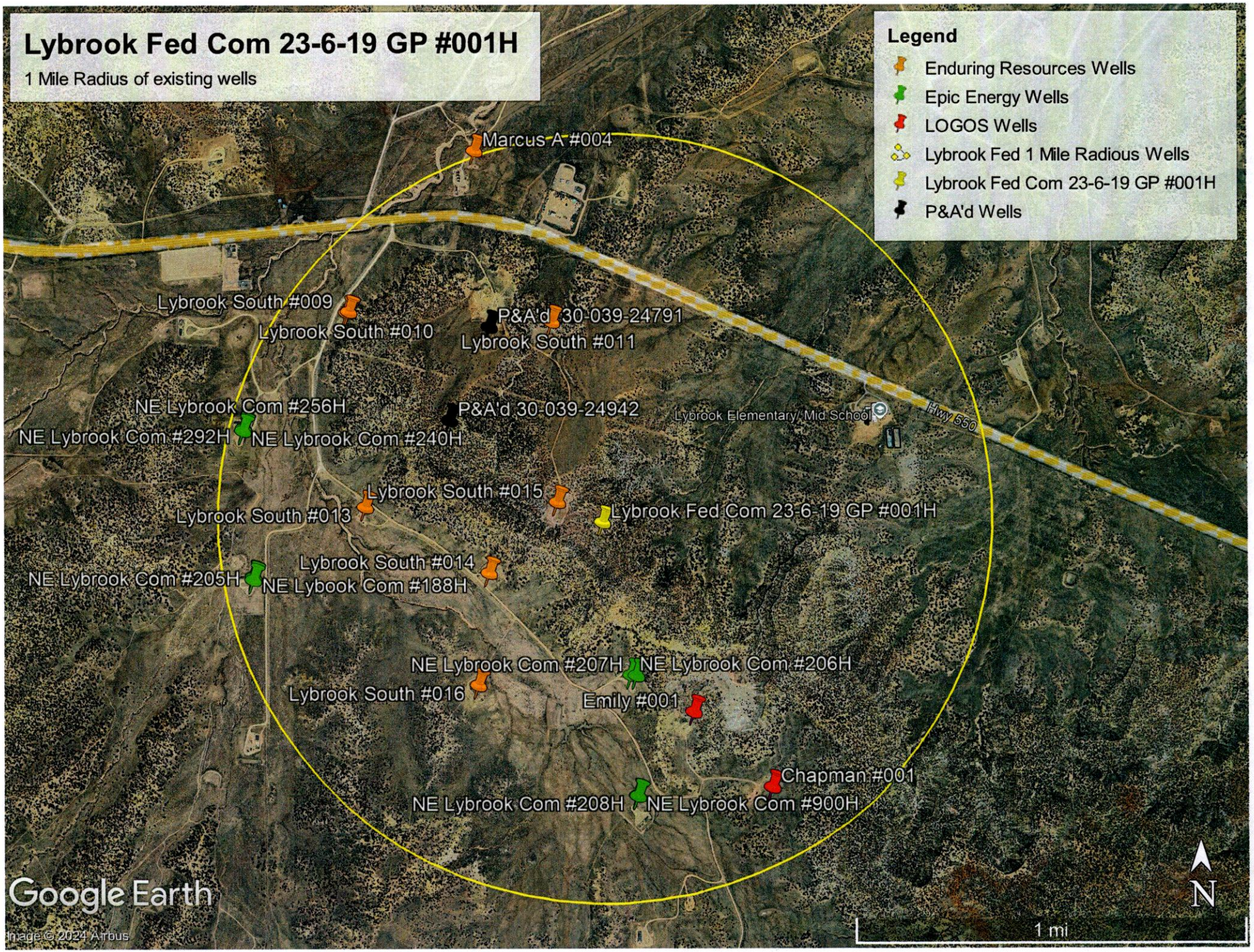
Directions from the Intersection of Highway 550 and Highway 64 in Bloomfield, NM
to
GP #1H
977' FNL 251' FEL,
Section 19, T23N, R6W, N.M.P.M.,
Sandoval County, New Mexico
Latitude: 36° 12' 55.279" N
Longitude: 107° 30' 04.610" W
Nad 1983

From the Intersection of Highway 550 & Highway 64
Go South on Hwy 550 for 51.1 miles
3.2 miles West of Counselor, NM
Turn rt (southerly) 300'
Turn left (easterly then southerly) 1.1 miles
To the beginning of new access
on the left (east) side of the field road
which begins and continues
southeasterly for 267.91' to the new location.


GP #1H
977' FNL & 251' FEL
SEC. 19, T23N R6W, N.M.P.M.
SANDOVAL COUNTY, NEW MEXICO
APD MAP
267.91' NEW BLM ACCESS
EXISTING HWY 550 ACCESS
EXISTING ACCESS
RIO ARRIBA CO
SANDOVAL CO
GP #1H
267.91' NEW BLM ACCESS
Escrito Canyon
LANDING STRIP
Escrito
Oil Well
Water Tank
Maxey Trading Post
Radio Tower
Lybrooks
BM 7232
BM 6882
Map created with TOPO! ©2007 National Geographic
NATIONAL GEOGRAPHIC
0.0 0.5 1.0 miles
0.0 0.5 1.0 1.5 km
TN MN
8½°

APPENDIX D

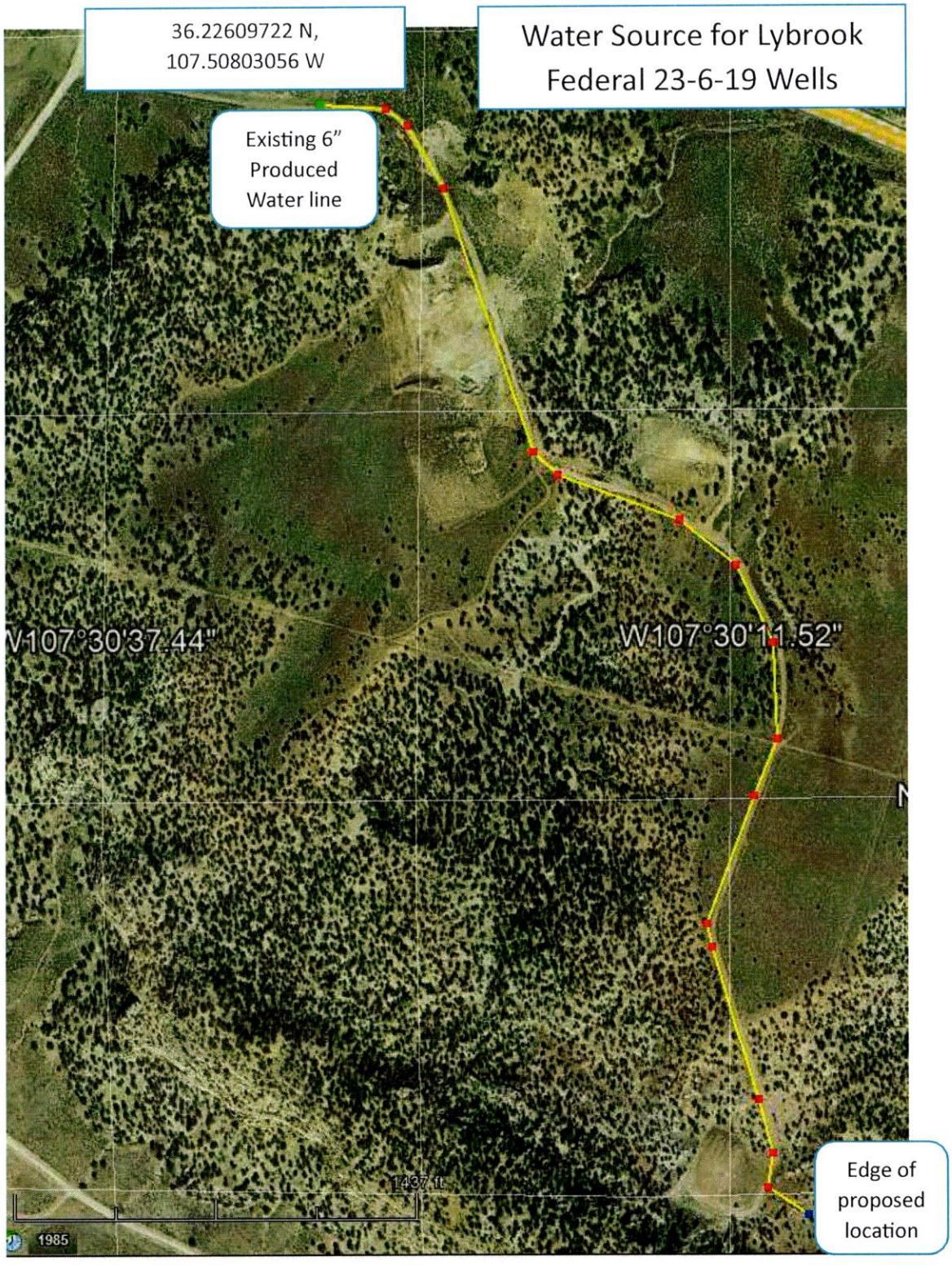
EXISTING WELLS WITHIN 1-MILE



APPENDIX E

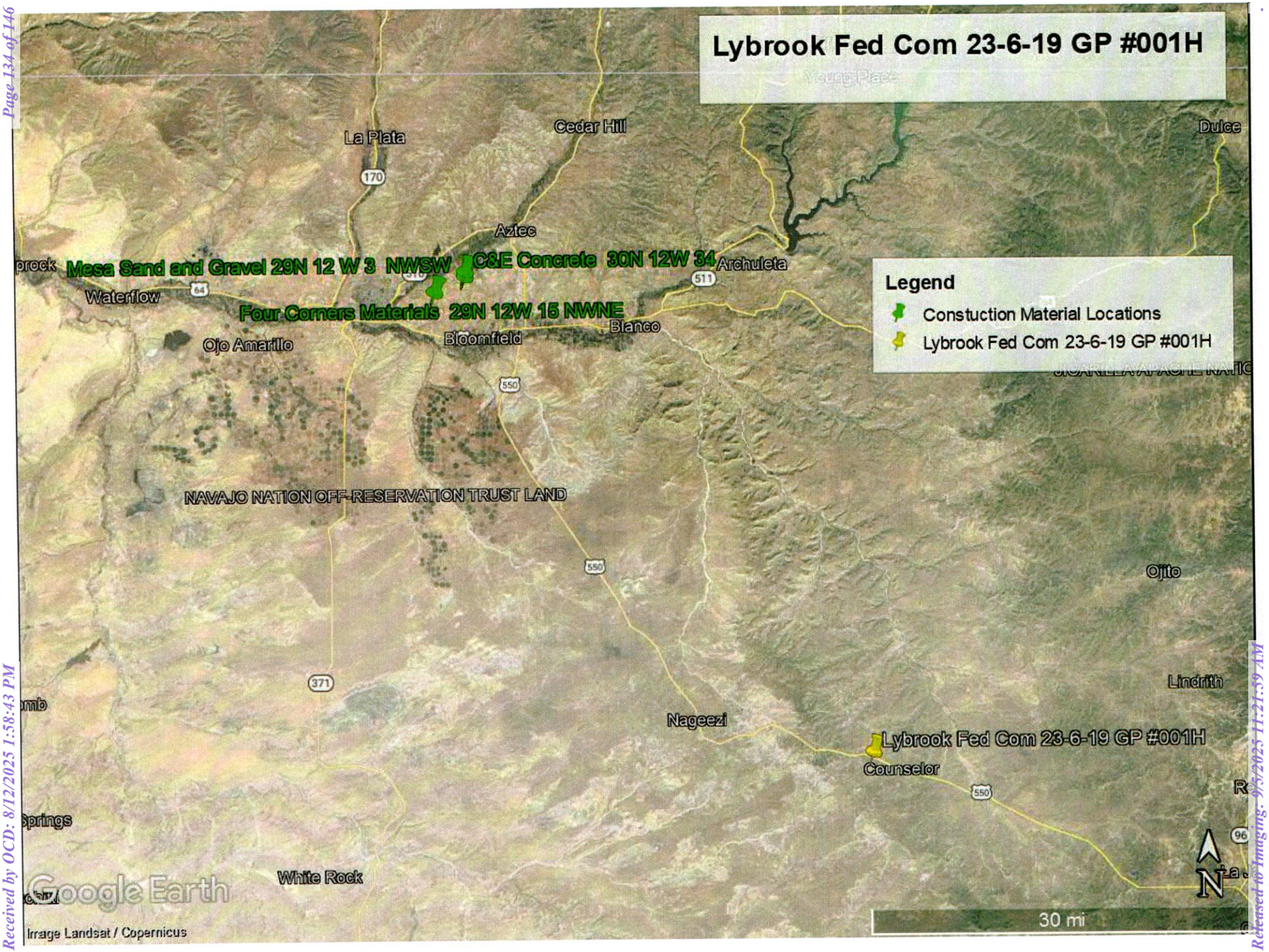
WATER SOURCE MAP

WATER SUPPLY MAP


36.22609722 N,
107.50803056 W
Water Source for Lybrook
Federal 23-6-19 Wells
Existing 6"
Produced
Water line
W107°30'37.44"
W107°30'11.52"
1437 ft
1985
Edge of
proposed
location

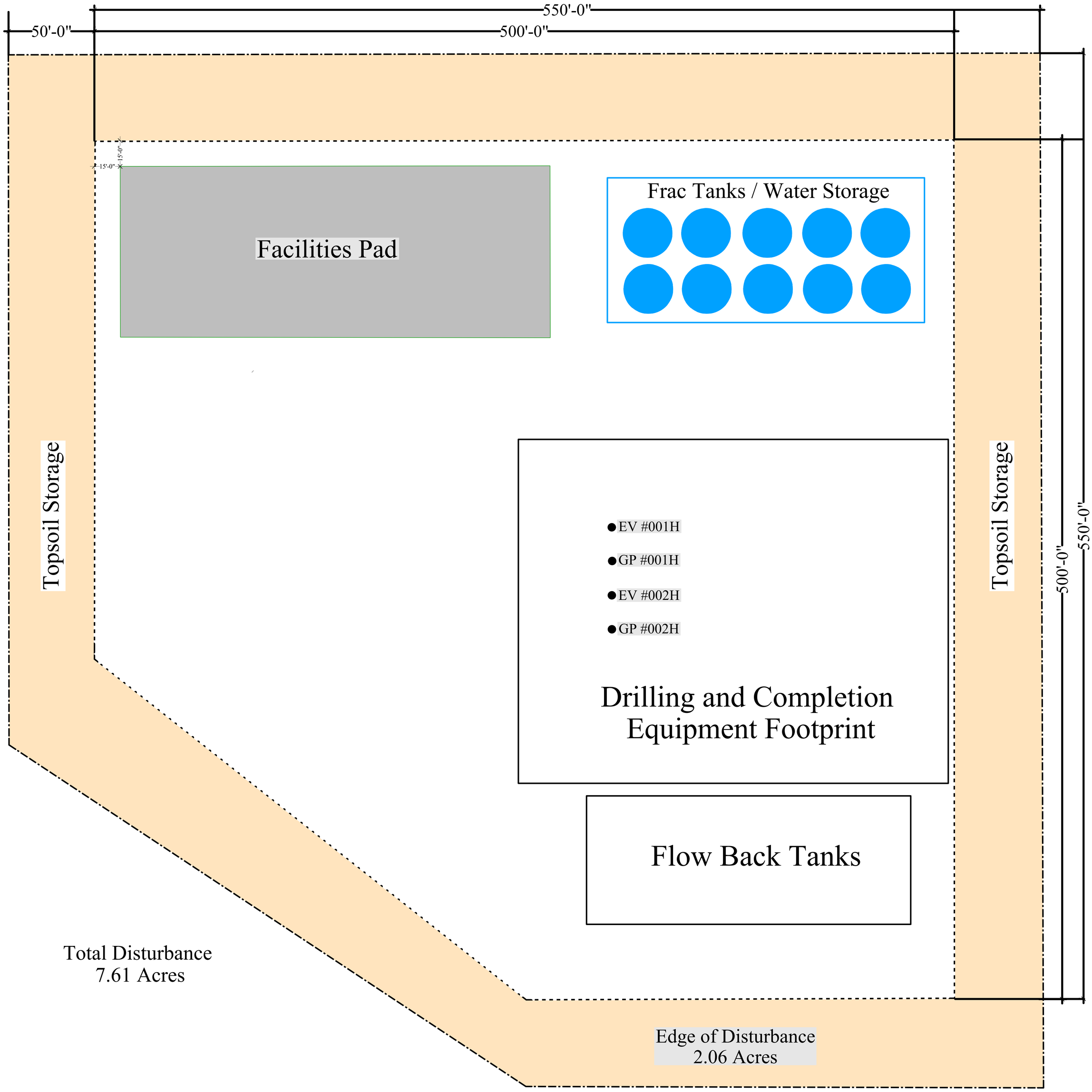
APPENDIX F

CONSTRUCTION MATERIALS MAP



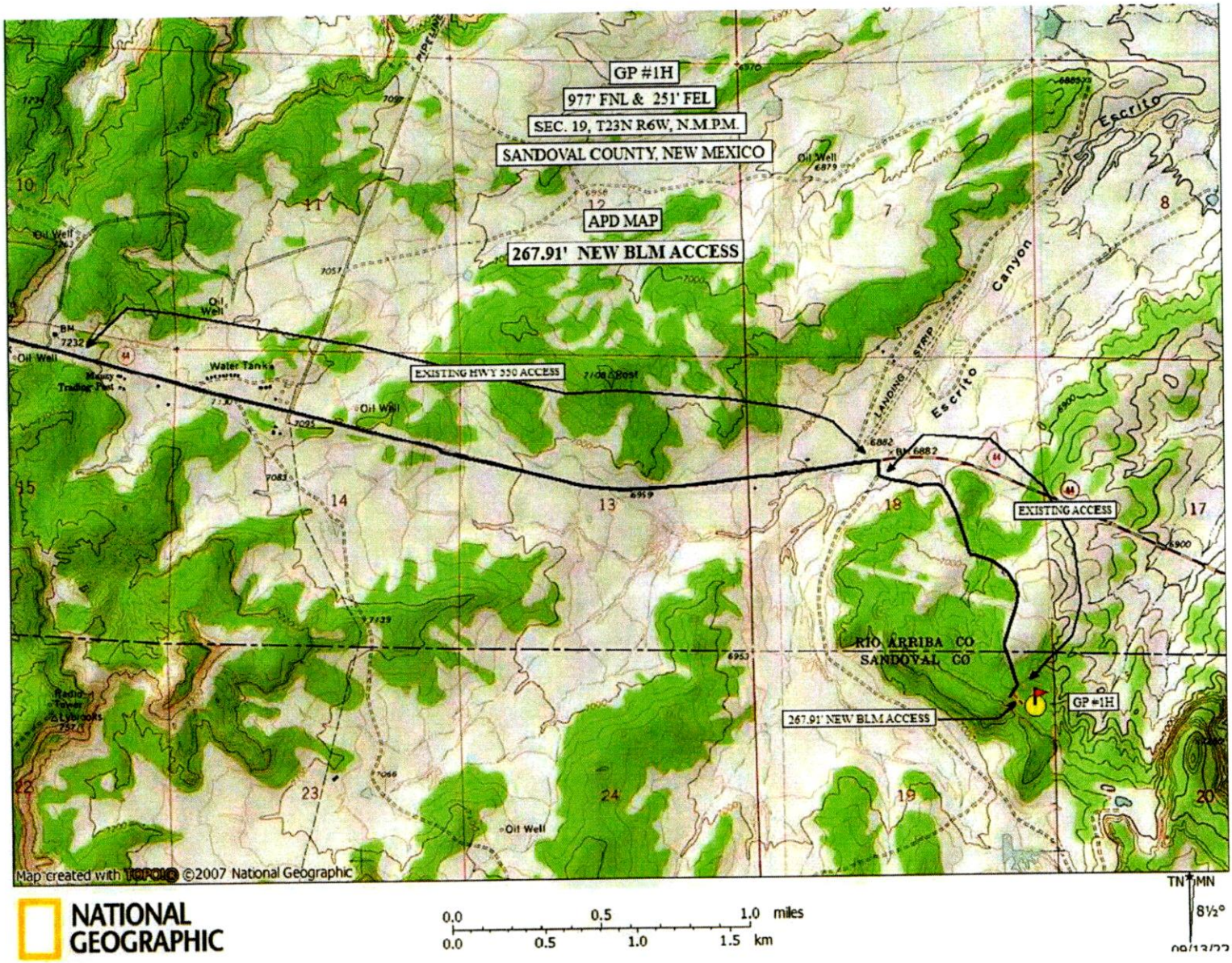
APPENDIX G

WELL PAD LAYOUT DIAGRAMS


550'-0"
50'-0"
500'-0"
15'-0"
15'-0"
Facilities Pad
Frac Tanks / Water Storage
Topsoil Stockpile Storage
EV #001H
GP #001H
EV #002H
GP #002H
Drilling and Completion Equipment Footprint
Flow Back Tanks
Topsoil Stockpile Storage
500'-0"
550'-0"
Total Disturbance
7.61 Acres
Edge of Disturbance
2.06 Acres

APPENDIX H

ACCESS ROAD MAP


GP #1H
977' FNL & 251' FEL
SEC. 19, T23N R6W, N.M.P.M.
SANDOVAL COUNTY, NEW MEXICO
APD MAP
267.91' NEW BLM ACCESS
EXISTING HWY 550 ACCESS
EXISTING ACCESS
RIO ARRIBA CO
SANDOVAL CO
GP #1H
267.91' NEW BLM ACCESS
Escrito Canyon
Escrito Landing Strip
Map created with TOPO! ©2007 National Geographic
NATIONAL GEOGRAPHIC
0.0 0.5 1.0 miles
0.0 0.5 1.0 1.5 km
TN MN
8½°

Directions from the Intersection of Highway 550 and Highway 64 in Bloomfield, NM
to
GP #1H
977' FNL 251' FEL,
Section 19, T23N, R6W, N.M.P.M.,
Sandoval County, New Mexico
Latitude: 36° 12' 55.279" N
Longitude: 107° 30' 04.610" W
Nad 1983

From the Intersection of Highway 550 & Highway 64
Go South on Hwy 550 for 51.1 miles
3.2 miles West of Counselor, NM
Turn rt (southerly) 300'
Turn left (easterly then southerly) 1.1 miles
To the beginning of new access
on the left (east) side of the field road
which begins and continues
southeasterly for 267.91' to the new location.

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

PWD Data Report
08/12/2025

APD ID: 10400094254 **Submission Date:** 12/02/2024

Operator Name: COLEMAN OIL & GAS INCORPORATED

Well Name: LYBROOK FED COM 23-6-19 GP **Well Number:** 001H

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

Section 1 - General

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

Section 2 - Lined

Would you like to utilize Lined Pit PWD options? N

Produced Water Disposal (PWD) Location:

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

Other PWD Surface Owner Description:

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit

Pit liner description:

Pit liner manufacturers

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule

Lined pit reclamation description:

Lined pit reclamation

Leak detection system description:

Leak detection system

Operator Name: COLEMAN OIL & GAS INCORPORATED

Well Name: LYBROOK FED COM 23-6-19 GP **Well Number:** 001H

Lined pit Monitor description:

Lined pit Monitor

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information

Section 3 - Unlined

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

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

Other PWD Surface Owner Description:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule

Unlined pit reclamation description:

Unlined pit reclamation

Unlined pit Monitor description:

Unlined pit Monitor

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

Beneficial use user

Estimated depth of the shallowest aquifer (feet):

Precipitated Solids Permit

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

Operator Name: COLEMAN OIL & GAS INCORPORATED

Well Name: LYBROOK FED COM 23-6-19 GP **Well Number:** 001H

State

Unlined Produced Water Pit Estimated

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

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information

Section 4 -

Would you like to utilize Injection PWD options? N

Produced Water Disposal (PWD) Location:

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

Other PWD Surface Owner Description:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

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

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

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection

Underground Injection Control (UIC) Permit?

UIC Permit

Section 5 - Surface

Would you like to utilize Surface Discharge PWD options? N

Produced Water Disposal (PWD) Location:

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

Other PWD Surface Owner Description :

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:

Operator Name: COLEMAN OIL & GAS INCORPORATED

Well Name: LYBROOK FED COM 23-6-19 GP **Well Number:** 001H

Section 6 -

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

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

PWD Surface Owner Description:

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements

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

Bond Info Data
08/12/2025

APD ID: 10400094254
Submission Date: 12/02/2024
Operator Name: COLEMAN OIL & GAS INCORPORATED
Well Name: LYBROOK FED COM 23-6-19 GP
Well Number: 001H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes
Show Final Text

Bond

Federal/Indian APD: FED

BLM Bond number: NMB001509

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 amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

ACKNOWLEDGMENTS

Operator: COLEMAN OIL & GAS INC P.O. Drawer 3337 Farmington, NM 87499	OGRID: 4838
	Action Number: 495202
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

☐	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Operator:	OGRID:
COLEMAN OIL & GAS INC P.O. Drawer 3337 Farmington, NM 87499	4838
	Action Number: 495202
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
arleens	Cement is required to circulate on both surface and intermediate1 strings of casing.	8/12/2025
arleens	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	8/12/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	9/5/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	9/5/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	9/5/2025
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	9/5/2025
ward.rikala	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.	9/5/2025