Form 3160-3
(October 2024)

FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027

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.
30-045-38550

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: 04/29/2026

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: 04/29/2026

Additional Operator Remarks

Location of Well

0. SHL: LOT 12 / 1547 FSL / 459 FEL / TWSP: 32N / RANGE: 9W / SECTION: 12 / LAT: 36.995343 / LONG: -107.72275 (TVD: 0 feet, MD: 0 feet)

PPP: SESW / 1150 FSL / 619 FWL / TWSP: 32N / RANGE: 08W / SECTION: 7 / LAT: 36.994336 / LONG: -107.719301 (TVD: 3320 feet, MD: 11932 feet)

PPP: LOT 8 / 849 FSL / 1 FEL / TWSP: 32N / RANGE: 08W / SECTION: 8 / LAT: 36.993958 / LONG: -107.706521 (TVD: 3320 feet, MD: 11932 feet)

BHL: SESE / 783 FSL / 746 FEL / TWSP: 32N / RANGE: 08W / SECTION: 8 / LAT: 36.993509 / LONG: -107.691364 (TVD: 3320 feet, MD: 11932 feet)

BLM Point of Contact

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

Conditions of Approval

Operator:	Hilcorp Energy Company
Well Names:	Reese Mesa – Trail Canyon – San Juan 32-8 Fruitland Coal Wells Project
Legal Location:	Reese Mesa: T32N R8W Sec 11 San Juan County, NM
	San Juan 32-8: T32N R8W Sec 14 San Juan County, NM
	Trail Canyon: T32N R9W Sec 12 San Juan County, NM
NEPA Log Number:	DOI-BLM-NM-F010-2025-0059-EA
Onsite Date:	July 18, 2025
Lease Number:	NMNM078424X

The following conditions of approval will apply to Reese Mesa – Trail Canyon – San Juan 32-8 Fruitland Coal 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.

1. **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, and Cultural Resource Record of Review shall be at the project area at all times and available to all persons.

2. **Surface Owner:** Any agreement between the operator and fee land owner will take precedence over BLM surface stipulations unless (In reference to 43 CFR Part 3160) 1) BLM determines that the operator's actions will affect adjacent Federal or Indian surface, or 2) the operator does not maintain well area and lease premises in a workmanlike manner with due regard for safety, conservation and appearance, or 3) no such agreement exists, or 4) in the event of well abandonment, minimal Federal restoration requirements will be required. If surface owner changes any stipulations in the conditions of approval, the operator will contact the BLM authorized officer before implementing surface owner stipulation.

3. **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 ePlanning DOI-BLM-NM-F010-2025-0059-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: eplanning.blm.gov.

4. **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 BMP's are found in the Gold Book, Fourth Edition-Revised 2007. Farmington Field Office BMP's are

integrated into the Environmental Assessment, Surface Use Plan of Operations, Bare Soil Reclamation Plan, and COAs.

Construction, Production, Facilities, Reclamation & Maintenance

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

6. **Grazing Permittee Notification and Concerns:** The operator will notify the grazing lease operator(s) at least ten business days prior to beginning any construction activity to ensure there will be no conflicts between construction activities and livestock grazing operations. The operator is not obligated to cease or delay construction unless directed by the Authorized Officer (AO). Any range improvement (fences, pipelines, ponds, etc.) disturbed by construction activities will be repaired immediately following construction and will be repaired to the condition the improvement was in prior to disturbance. Cattle guards will be installed to replace any livestock fencing or gates removed for road construction.

7. **Cattleguards:** If applicable, cattle guards shall have grid identification marks welded into them indicating ownership, well name and number associated with the cattle guard, and foundation designs. Construction shall meet the American Association of State Highway and Transportation Officials (AASTHO) load rating H-20, although AASTHO U-80 rated grids shall be required where heavy loads, (exceeding H-20 loading) are anticipated. (See BLM standard drawings for cattle guards). Cattle guard grid width shall not be less than eight feet and length of not less than 14 feet. A wire gate with a minimum width of 16 feet will be provided on one side of the cattle guard.

8. **Cutting of Fences:** All cut fences are to be tied to H-braces prior to cutting. The opening will be protected as necessary during construction to prevent escape of livestock. A temporary closure will be installed on all cut fences the day the fence is cut. A sixteen-foot gate will be installed adjacent to the cattleguard. The holder shall minimize disturbance to existing fences and other improvements on public land. Holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them.

9. **Crossing Existing Improvements:** Prior to crossing, using or paralleling any improvement on public land, the operator shall contact the owner of the improvement to obtain mitigating measures to prevent damage to the improvements.

10. **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. Hilcorp 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. Production equipment [including any facilities associated with pipeline construction] shall be placed on location as not to interfere with reclaiming the cut and fill slopes to their proper ratio. If equipment is found to interfere with the proper reclamation of the slope, the company will be required to move the equipment so proper re-contouring can occur.

11. **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.

12. **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.

13. **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.

14. **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).

15. **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.

16. **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.

17. **Acquisition of Water:** Water acquired to construct, produce, and maintain actions authorized by this permit to drill must be acquired from permitted water sources, or water authorized for use by the New Mexico Oil Conservation Division (OCD). Upon request, the Authorized Officer shall be provided with documentation of water sources.

18. **New & Existing Access:** All sections of the proposed access road associated with this permit shall be sited, designed, constructed, upgraded and maintained utilizing standards, requirements, guidelines and instructions specified in BLM Manual 9113 “Roads”, BLM

Manual 9113-1" Roads Design Handbook", BLM Manual 9113-2 "Roads National Inventory and Condition Assessment Guidance & Instructions Handbook" and Surface Operations and Guidelines for Oil and Gas Exploration and Development "The Gold Book".

19. **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.

20. **Berms:** Berms or firewalls will be constructed around all storage facilities sufficient in size to contain the storage capacity of 110% of the largest tank, or 110% of the combined capacity of tanks if a rupture could drain more than one tank. Berm walls will be compacted with appropriate equipment to assure proper construction. Metal containment barriers, used for secondary containment, will be properly installed, per the manufacturer directions.

21. **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.

22. **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.

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

24. **"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
Taos Field Office at 575-758-8851

Approval Date: 04/29/2026

Noxious Weeds

25. 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*)

1. 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.
2. 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.
3. Construction 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.
4. 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.
5. 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.
6. 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. (Company Name)'s weed-control contractor would contact the BLM-FFO prior to using these chemicals.

7. Noxious/invasive weed treatments must be reported to the FFO Noxious Weed Coordinator. A Pesticide Application Record (PAR) 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.

26. **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:
    1. 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. Hilcorp's weed-control contractor would contact the BLM-FFO prior to using these chemicals and provide Pesticide Use Reports (PURs) post treatment.
    2. 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

27. **Unanticipated Paleontological Resources:** "If unanticipated paleontological resources are discovered during ground-disturbing activities, all ground-disturbing activity will immediately cease within 100 feet in all directions of the discovery. The discovery will be immediately reported to the appropriate construction personnel on site (e.g., construction superintendent/foreman, right-of-way inspectors) and other appropriate personnel involved with the project. The on-site personnel will immediately report the discovery to the Bureau of Land Management Paleontology Coordinator and a permitted paleontologist. The agency will evaluate, or will have evaluated, such discoveries as soon as possible, but not later than ten (10) working days after being notified. All ground-disturbing activities within 100 feet of the discovery will not resume until the agency has agreed that activities may resume, or within ten (10) days. A full-time monitor will be present for further ground-disturbing activities until it is determined that the likelihood of another discovery is negligible. The proponent will be responsible for the cost of evaluation and any mitigation measures required to protect the paleontological resource. The proponent may not be required to suspend all operations if activities can be adjusted to avoid further impacts to a discovered locality or be continued elsewhere."

28. 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 Authorized Officer 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 Authorized Officer after consulting with the Holder.

Wildlife Resources

29. **Wildlife:** The project is within the Rattlesnake Canyon Wildlife SDA. Hilcorp's APDs include a commitment to a closure period beginning December 1 and ending March 31 of each year. This closure period shall apply to construction, drilling, completions, and reclamation, but not standard or routine well maintenance.

30. **Hazards:** Wildlife hazards associated with the proposed project would be fenced, covered, and/or contained in storage tanks, as necessary.

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.

32. **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).

Soil, Air, Water

33. **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.

34. **Waste Disposal:** Waste materials produced during all phases of operation will be disposed of promptly in an approved manner so it will not impact the air, soil, water, vegetation or animals. "Waste" means all discarded matter including, but not limited to, human waste, trash, garbage, refuse, oil drums, petroleum products, ashes and equipment. All liquid waste, completion fluids and drilling products associated with oil and gas operations will be removed and deposited in an approved disposal site. Portable toilets will remain on site throughout well pad construction, drilling and reclamation. 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.

Construction sites shall be maintained in a sanitary condition at all times; waste materials at those sites shall be disposed of promptly at an appropriate waste disposal site. “Waste” means all discarded matter including, but not limited to, human waste, trash, garbage, refuse, oil drums, petroleum products, ashes and equipment.

Cultural Resources

35. **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 will be suspended and the discovery promptly reported to 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. 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.

36. **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.

37. **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 resources consultant and/or alternative mitigations. 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 (NAGPRA) of 1990, as amended, and other applicable laws.

38. **Employee Education:** All employees of the project, including the Project Sponsor and its contractors and sub-contractors will be informed and educated that cultural sites are to be avoided by all personnel, personal vehicles and company equipment. This includes personnel associated with construction, use, maintenance and abandonment of the well pad, well facilities, access and pipeline. They will also be notified that it is illegal to collect, damage, or disturb historic or prehistoric cultural resources, and that such activities are punishable by criminal and or administrative penalties under the provisions of the ARPA (16 U.S.C. 470aa-mm), NAGPRA (25 U.S.C. 3001-3013), and other laws, as applicable (for example, NM Stat. § 18-6-9 through § 18-6-11.2, as amended, and NM Stat. § 30-12-12, as amended).

See additional cultural resource protection requirements below.

BLM Report Number: 2025(IV)007F
USGS Map: Anastacio Spring, NM
Activity Code: 1310
NMCRIS No: 157843

CULTURAL RESOURCE RECORD OF REVIEW
BUREAU OF LAND MANAGEMENT
FARMINGTON FIELD OFFICE

1. **Description of Report/Project:**

Project Name: Reese Mesa 101 Federal Com #1H Well Pad Expansion Project.
Project Sponsor: Hilcorp Energy.
Arch. Firm & Report No.: SWCA Environmental; SWCA Report No. SWCA_ 25-228
Well Footages: See Plats
Split Estate: no
Project Dimensions: 350 ft x 225 ft – well pad (450 ft x 325 ft with a 50 ft construction zone).

Sites Located: None.

Determination: No Effect to Historic Properties.
2. **Field Check:** No
3. **Cultural ACEC:** No.
4. **Sensitive Cultural Area:** No.
5. **Recommendation:** *PROCEED WITH ACTION:* X *STIPULATIONS ATTACHED:* __
6. **Reviewer /Archaeologist:** Kim Adams **Date**: 6/24/2025

Report Summary	BLM	Other	Total
Acres Inventoried	7.64	0.00	7.64
Sites Recorded	0	0	0
Prev. Recorded Sites	0	0	0
Sites Avoided	0	0	0
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 505.215.4966 or kadams@blm.gov.

Approval Date: 04/29/2026

BLM Report Number: 2025(IV)008F
USGS Map: Anastacio Spring, NM
Activity Code: 1310
NMCRIS No: 157844

CULTURAL RESOURCE RECORD OF REVIEW
BUREAU OF LAND MANAGEMENT
FARMINGTON FIELD OFFICE

1. **Description of Report/Project:**

Project Name: Trail Canyon 100 Federal Com 1H Well Pad Expansion Project.
Project Sponsor: Hilcorp Energy.
Arch. Firm & Report No.: SWCA Environmental; SWCA Report No. SWCA_ 25-229
Well Footages: See Plats
Split Estate: no
Project Dimensions: 250 ft x 225 ft – well pad (350 ft x 325 ft with a 50 ft construction zone).

Sites Located: None.

Determination: No Effect to Historic Properties.
2. Field Check: No
3. Cultural ACEC: No.
4. Sensitive Cultural Area: No.
5. Recommendation: *PROCEED WITH ACTION:* X *STIPULATIONS ATTACHED:* __
6. Reviewer /Archaeologist: Kim Adams **Date**: 6/24/2025

Report Summary	BLM	Other	Total
Acres Inventoried	6.43	0.00	6.43
Sites Recorded	0	0	0
Prev. Recorded Sites	0	0	0
Sites Avoided	0	0	0
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 505.215.4966 or kadams@blm.gov.

Approval Date: 04/29/2026

BLM Report Number: 2025(IV)006F
USGS Map: NM Anastacio Spring
Activity Code: 1310
NMCRIS No: 157845

CULTURAL RESOURCE RECORD OF REVIEW
BUREAU OF LAND MANAGEMENT
FARMINGTON FIELD OFFICE

1. **Description of Report/Project:**

Project Name: San Juan 32-8 Unit 46H Well Pad Project.
Project Sponsor: Hilcorp Energy.
Arch. Firm & Report No.: SWCA Environmental; SWCA Report No. SWCA: 25-230
Location: T32N R8W Section 14
Well Footages: See Plats
Split Estate: no
Project Dimensions: 225 ft x 250 ft – well pad (325 ft x 350 ft with a 50 ft construction zone).

Sites Located: None.

Determination: No Effect to Historic Properties.
2. **Field Check:** No
3. **Cultural ACEC:** No.
4. **Sensitive Cultural Area:** No.
5. **Recommendation:** *PROCEED WITH ACTION:* X *STIPULATIONS ATTACHED:* __
6. **Reviewer /Archaeologist:** Kim Adams **Date:** 6/23/2025

Report Summary	BLM	Other	Total
Acres Inventoried	6.43	0.00	6.43
Sites Recorded	0	0	0
Prev. Recorded Sites	0	0	0
Sites Avoided	0	0	0
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 505.215.4966 or kadams@blm.gov.

Approval Date: 04/29/2026

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)

HILCORP ENERGY COMPANY
1H TRAIL CANYON 100 FEDERAL COM
APD ID: 10400107012

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.

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.

Approval Date: 04/29/2026

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

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-045-38550	71629	BASIN FRUITLAND COAL

Property Code	Property Name	Well Number
339403	TRAIL CANYON 100 FEDERAL COM	001H

OGRID No.	Operator Name	Ground Level Elevation
372171	HILCORP ENERGY COMPANY	6663'

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

Surface Location

UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W Line	Latitude	Longitude	County
I	12	32N	9W	12	1547' SOUTH	459' EAST	36.995343 °N	-107.722750 °W	SAN JUAN

Bottom Hole Location

UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W Line	Latitude	Longitude	County
P	8	32N	8W		783' SOUTH	746' EAST	36.993509 °N	-107.691364 °W	SAN JUAN

Dedicated Acres	Penetrated Spacing Unit	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit	Consolidation Code
588.80	S/2 - Section 7, T32N, R8W S/2 - Section 8, T32N, R8W	Defining		☐ Yes ☒ No	Com

Order Numbers
Well setbacks are under Common Ownership: ☒ Yes ☐ No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W Line	Latitude	Longitude	County
I	12	32N	9W	12	1547' SOUTH	459' EAST	36.995343 °N	-107.722750 °W	SAN JUAN

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W Line	Latitude	Longitude	County
N	7	32N	8W		1150' SOUTH	619' WEST	36.994336 °N	-107.719301 °W	SAN JUAN

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W Line	Latitude	Longitude	County
P	8	32N	8W		783' SOUTH	746' EAST	36.993509 °N	-107.691364 °W	SAN JUAN

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

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

Signature — Date: 8/15/2025

Amanda Walker
Printed Name

mwalker@hilcorp.com
E-mail Address

SURVEYOR CERTIFICATION

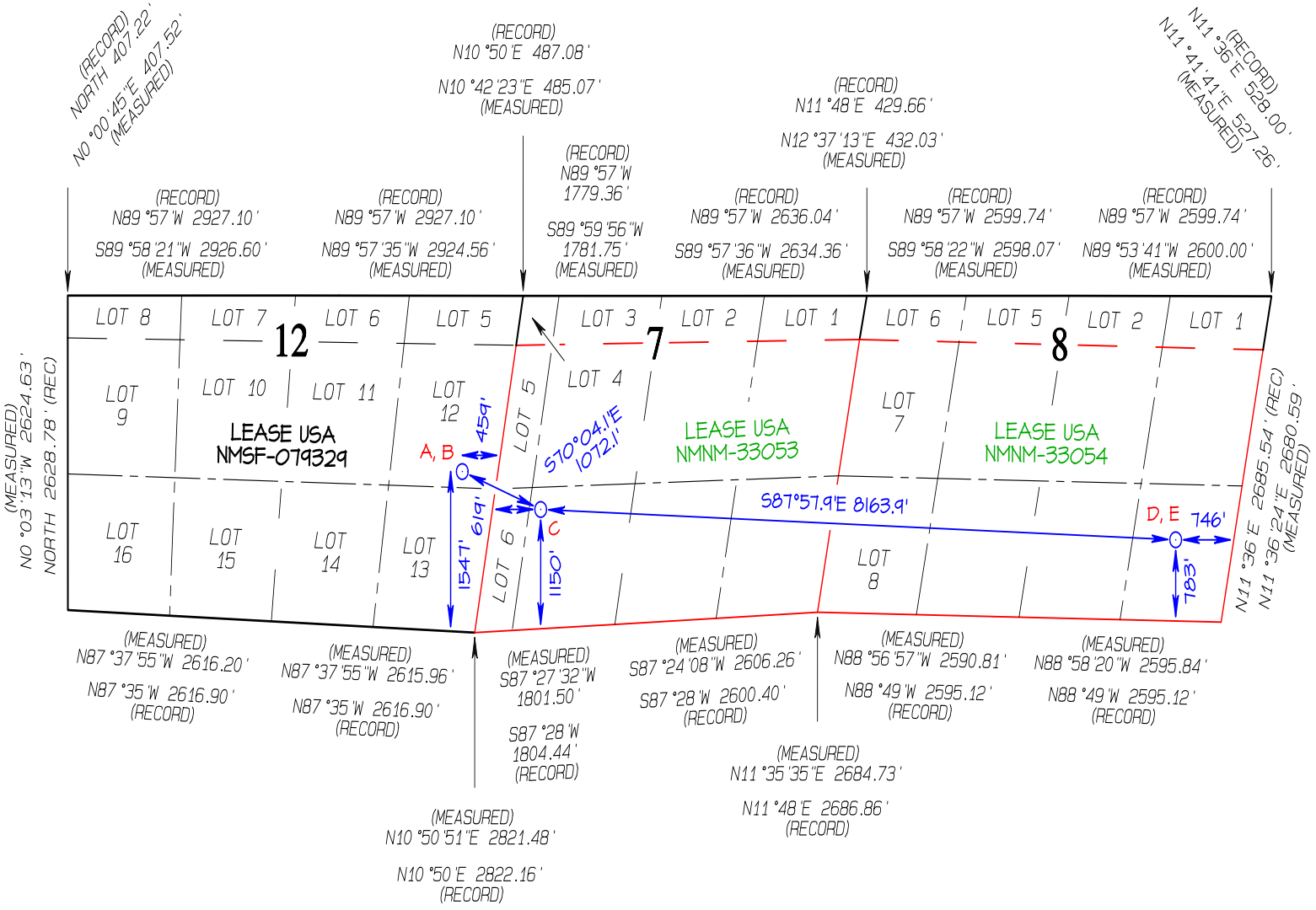
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

JASON C. EDWARDS
NEW MEXICO
15269
8/11/2025
REGISTERED PROFESSIONAL SURVEYOR

JASON C. EDWARDS
Signature and Seal of Professional Surveyor

Certificate Number	Date of Survey
15269	FEBRUARY 10, 2025

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.



SURFACE LOCATION (A)
1547' FSL 459' FEL
SECTION 12, T32N, R9W
LAT 36.995340 °N
LONG -107.722134 °W
DATUM: NAD1927

LAT 36.995343 °N
LONG -107.722750 °W
DATUM: NAD1983

KICK OFF POINT (B)
1547' FSL 459' FEL
SECTION 12, T32N, R9W
LAT 36.995340 °N
LONG -107.722134 °W
DATUM: NAD1927

LAT 36.995343 °N
LONG -107.722750 °W
DATUM: NAD1983

FIRST TAKE POINT (C)
1150' FSL 619' FWL
SECTION 7, T32N, R8W
LAT 36.994333 °N
LONG -107.718684 °W
DATUM: NAD1927

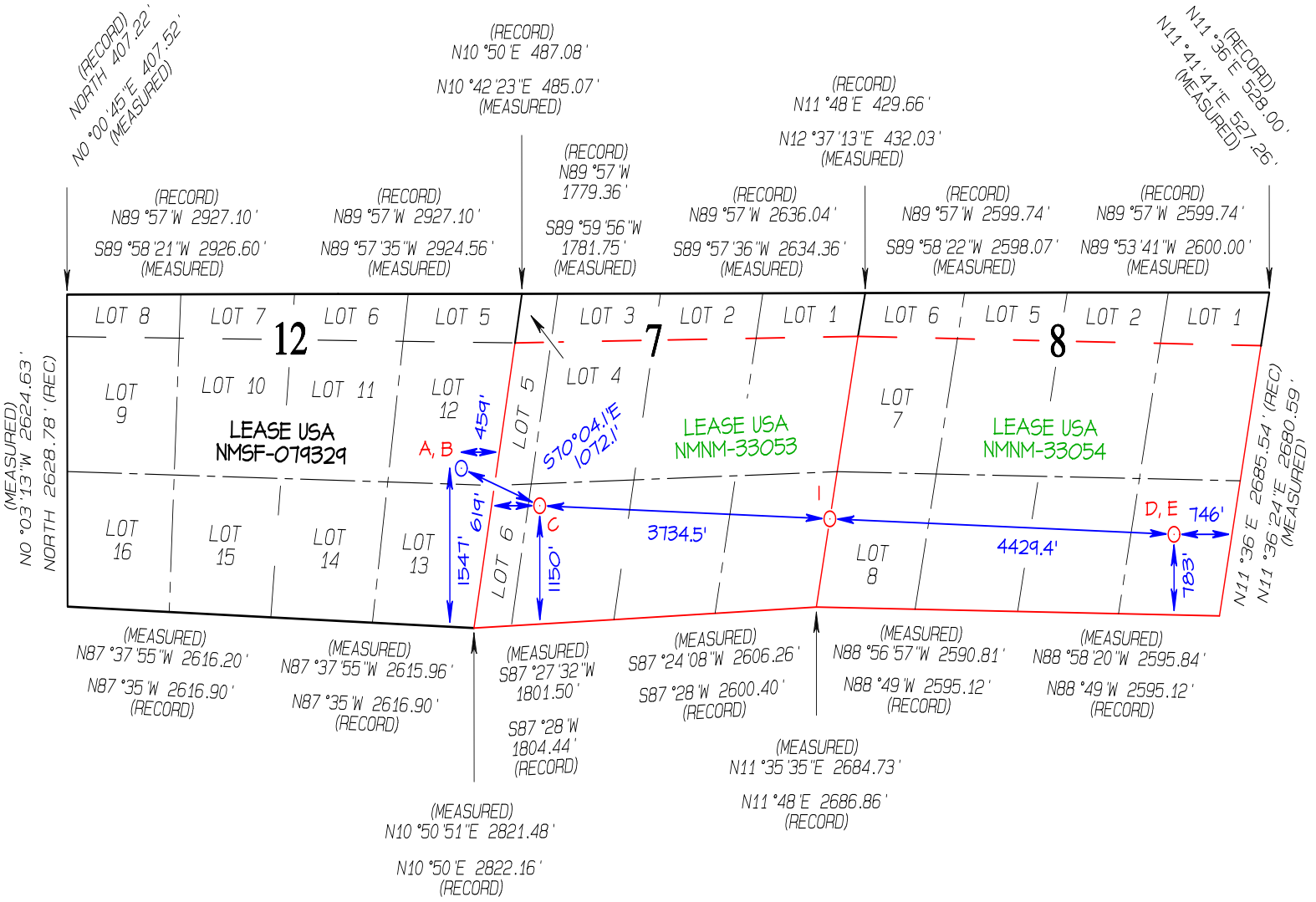
LAT 36.994336 °N
LONG -107.719301 °W
DATUM: NAD1983

LAST TAKE POINT (D)
783' FSL 746' FEL
SECTION 8, T32N, R8W
LAT 36.993506 °N
LONG -107.690749 °W
DATUM: NAD1927

LAT 36.993509 °N
LONG -107.691364 °W
DATUM: NAD1983

BOTTOM HOLE LOCATION (E)
783' FSL 746' FEL
SECTION 8, T32N, R8W
LAT 36.993506 °N
LONG -107.690749 °W
DATUM: NAD1927

LAT 36.993509 °N
LONG -107.691364 °W
DATUM: NAD1983



SURFACE LOCATION (A)
1547' FSL 459' FEL
SECTION 12, T32N, R9W
LAT 36.995340 °N
LONG -107.722134 °W
DATUM: NAD1927

LAT 36.995343 °N
LONG -107.722750 °W
DATUM: NAD1983

FIRST TAKE POINT (C)
1150' FSL 619' FWL
SECTION 7, T32N, R8W
LAT 36.994333 °N
LONG -107.718684 °W
DATUM: NAD1927

LAT 36.994336 °N
LONG -107.719301 °W
DATUM: NAD1983

LEASE X-ING (1)
849' FSL 0' FEL
SECTION 7, T32N, R8W
LAT 36.993955 °N
LONG -107.705905 °W
DATUM: NAD1927

LAT 36.993958 °N
LONG -107.706521 °W
DATUM: NAD1983

LAST TAKE POINT (D)
783' FSL 746' FEL
SECTION 8, T32N, R8W
LAT 36.993506 °N
LONG -107.690749 °W
DATUM: NAD1927

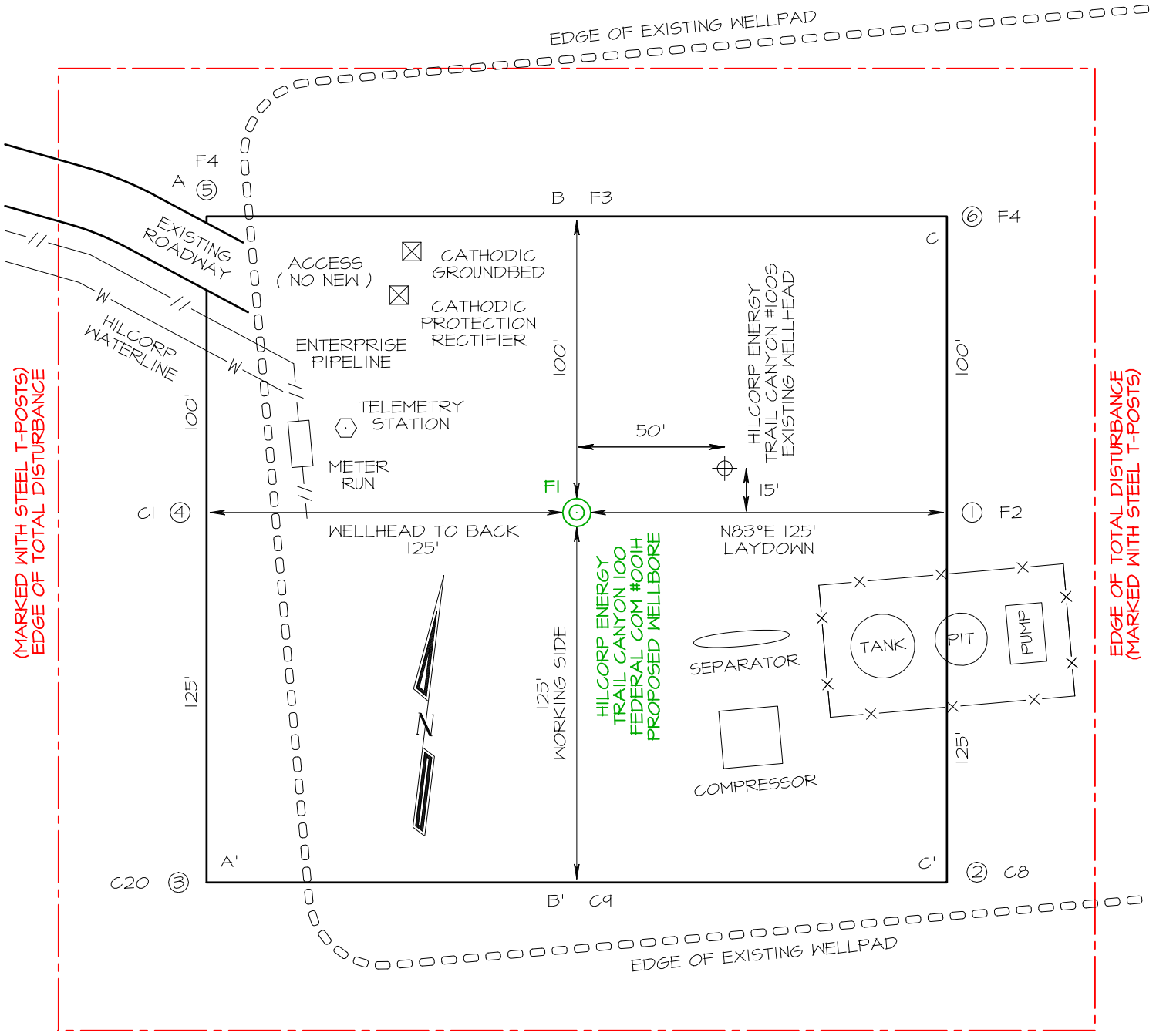
LAT 36.993509 °N
LONG -107.691364 °W
DATUM: NAD1983

BOTTOM HOLE LOCATION (E)
783' FSL 746' FEL
SECTION 8, T32N, R8W
LAT 36.993506 °N
LONG -107.690749 °W
DATUM: NAD1927

LAT 36.993509 °N
LONG -107.691364 °W
DATUM: NAD1983

Released to Imaging: 7/15/2026 1:03:52 PM

HILCORP TRAIL CANYON 100 FEDERAL COM #001H
1547' FSL & 459' FEL, SECTION 12, T32N, R9W, NMPM
SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6663'
LAT 36.995343°N LONG -107.722750°W DATUM NAD1983



Area of Total Disturbance
350' X 325' = 2.61 Acres

GRAPHIC SCALE 1"=50'

0 50 100

~ SURFACE OWNER ~

Bureau of Land Management

Steel T-Posts have been set to define Edge of Disturbance limits which are 50' offset from edge of wellpad.

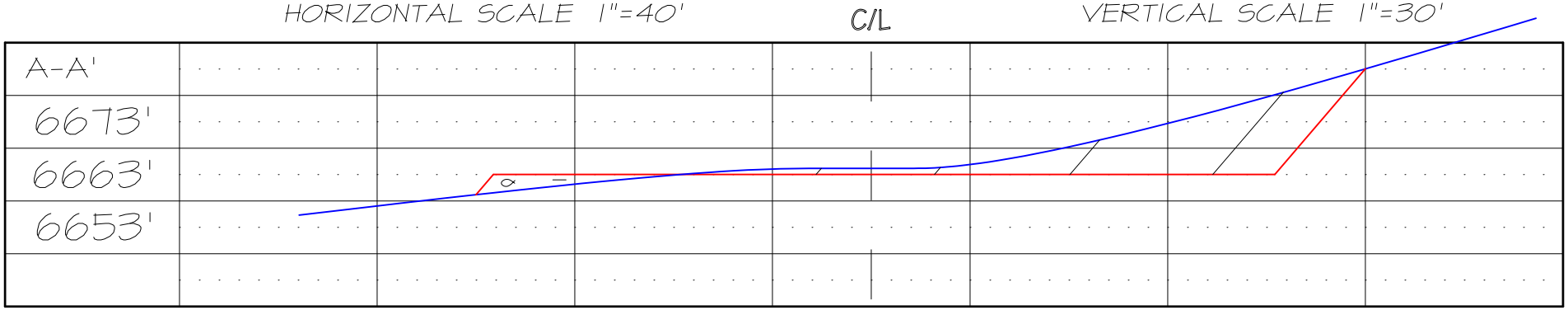
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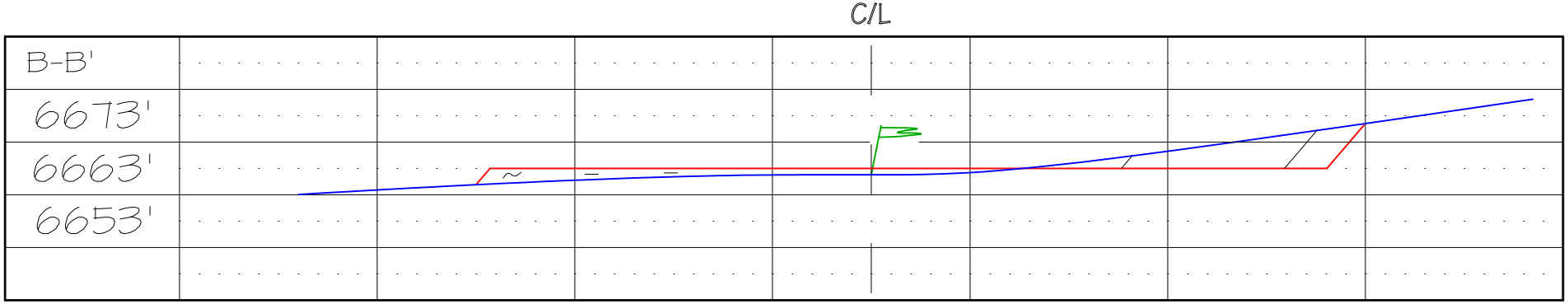
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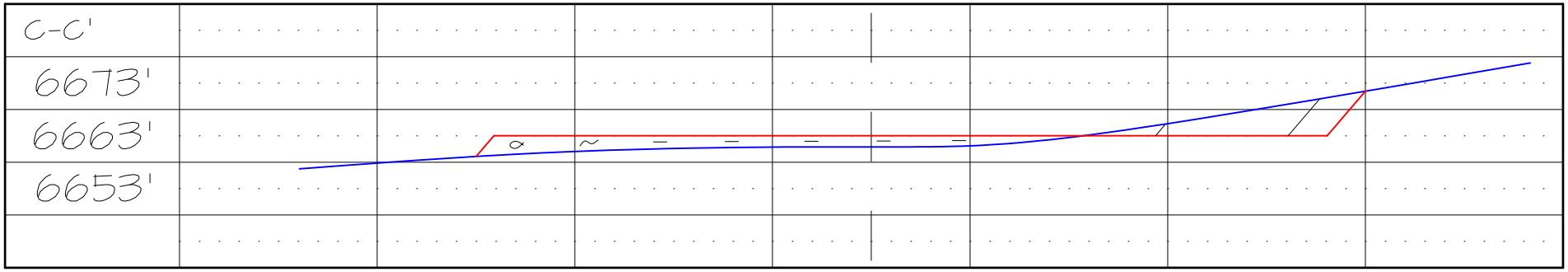
Received by OCD: 4/30/2026 9:03:44 AM

HILCORP TRAIL CANYON 100 FEDERAL COM #001H
1547' FSL & 459' FEL, SECTION 12, T32N, R9W, NMPM
SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6663'

HORIZONTAL SCALE 1"=40' VERTICAL SCALE 1"=30'





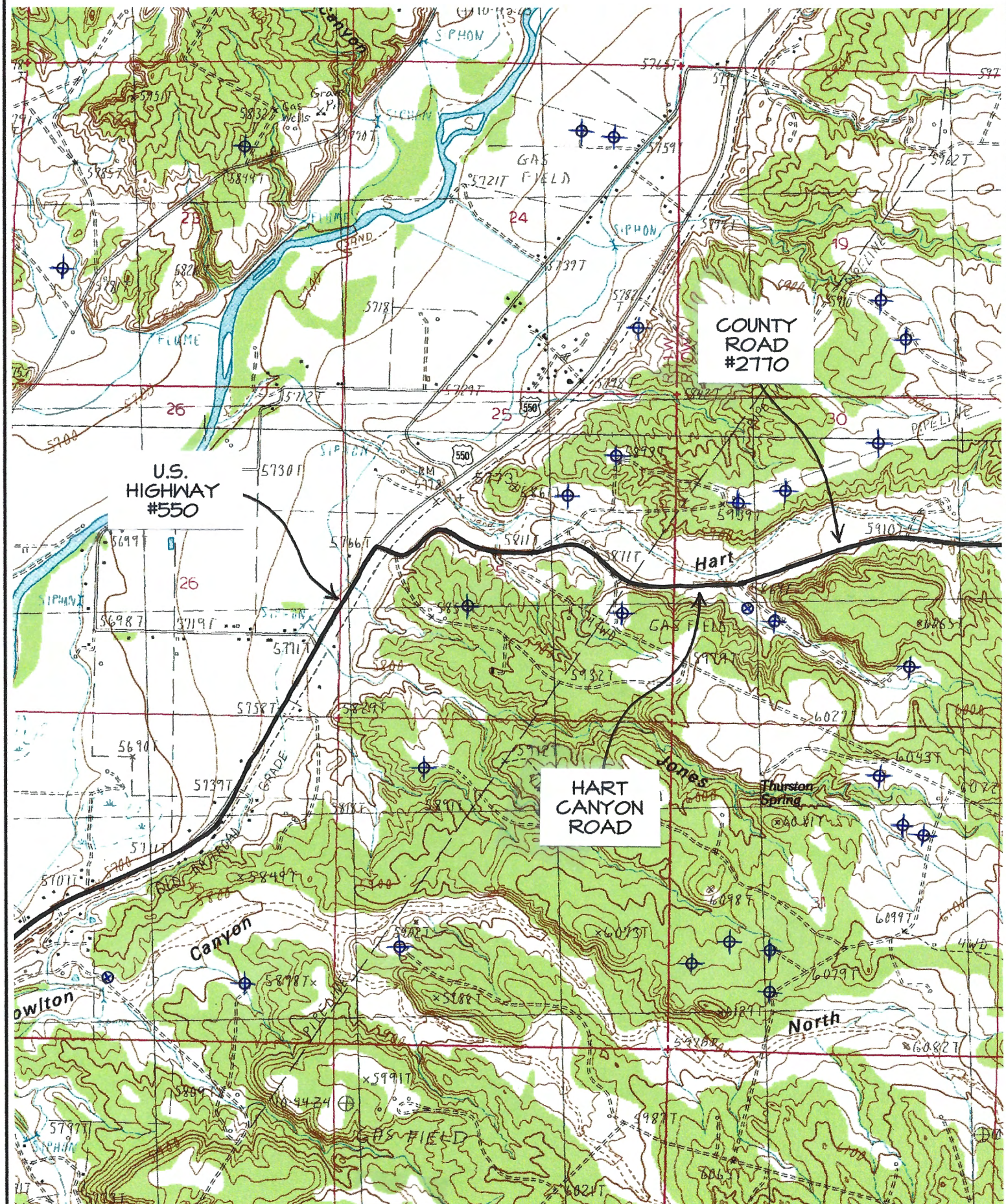


EDWARDS SURVEYING, INC. IS NOT LIABLE FOR LOCATION OF UNDERGROUND UTILITIES OR PIPELINES.

CONTRACTOR SHOULD CONTACT ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED UNDERGROUND UTILITIES OR PIPELINES ON WELLPAD AND/OR ACCESS ROAD AT LEAST TWO WORKING DAYS PRIOR TO CONSTRUCTION.

HILCORP ENERGY COMPANY TRAIL CANYON 100 FEDERAL COM #001H

1547' FSL & 459' FEL, SECTION 12, T32N, R9W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO

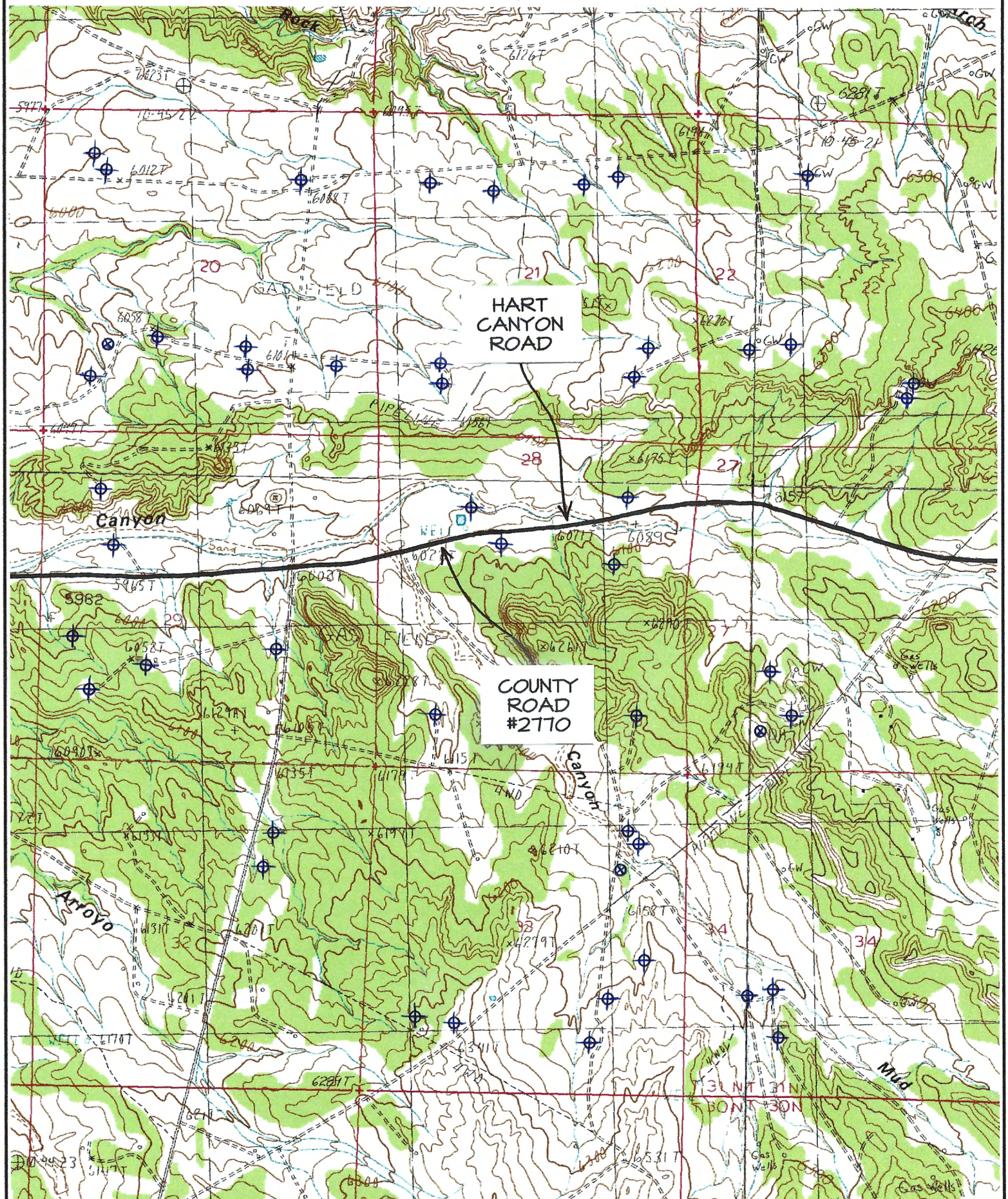


TOPO NAMES : AZTEC & CEDAR HILL ⊕ PRODUCING WELL ⊗ PLUGGED & ABANDONED WELL

Received by OCD: 4/30/2026 9:03:11 AM

HILCORP ENERGY COMPANY TRAIL CANYON 100 FEDERAL COM #001H

1547' FSL & 459' FEL, SECTION 12, T32N, R9W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO

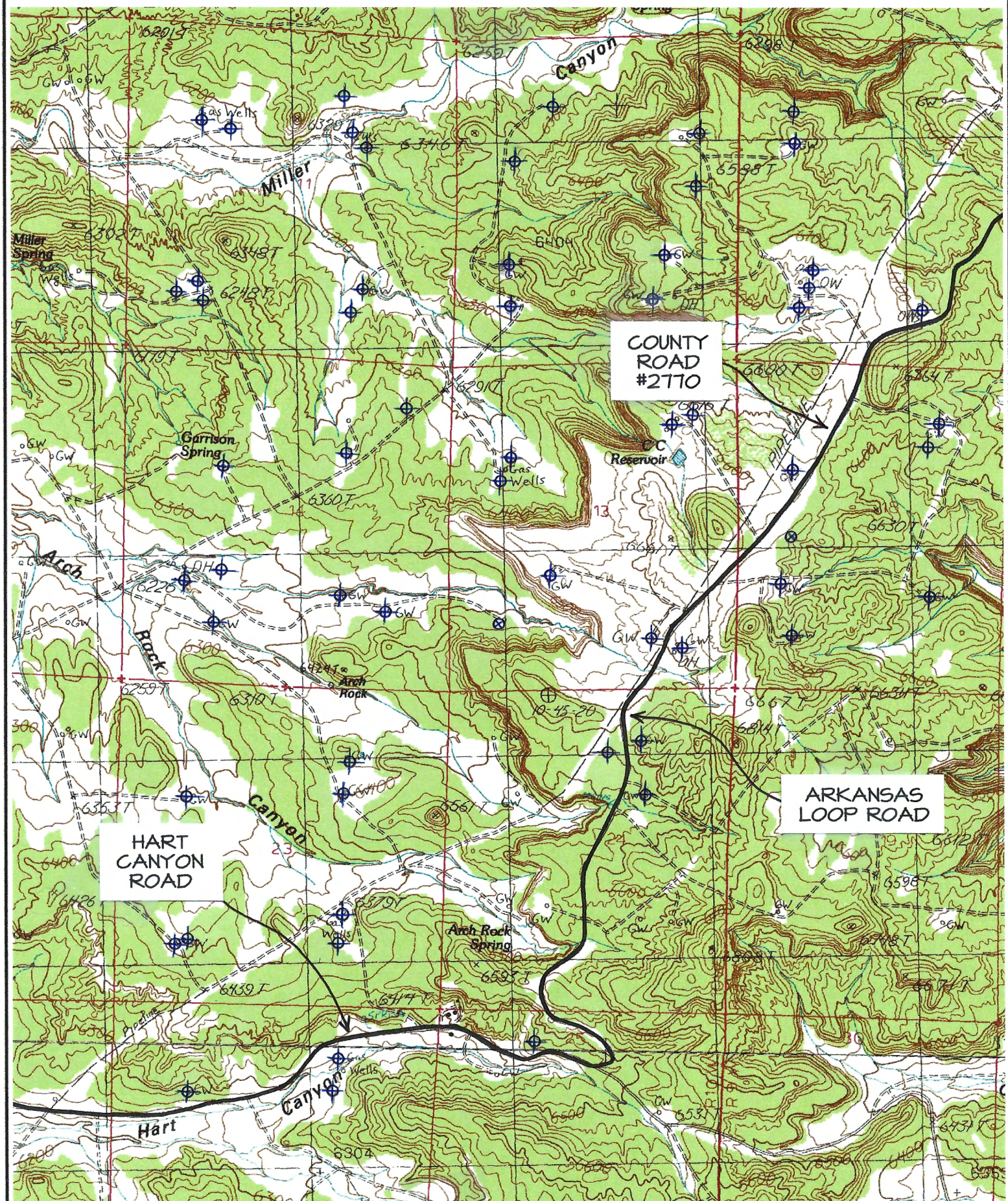


TOPO NAMES : AZTEC & CEDAR HILL ⊕ PRODUCING WELL ⊗ PLUGGED & ABANDONED WELL

Received by OCD: 4/30/2026 9:03:44 AM

HILCORP ENERGY COMPANY TRAIL CANYON 100 FEDERAL COM #001H

1547' FSL & 459' FEL, SECTION 12, T32N, R9W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO

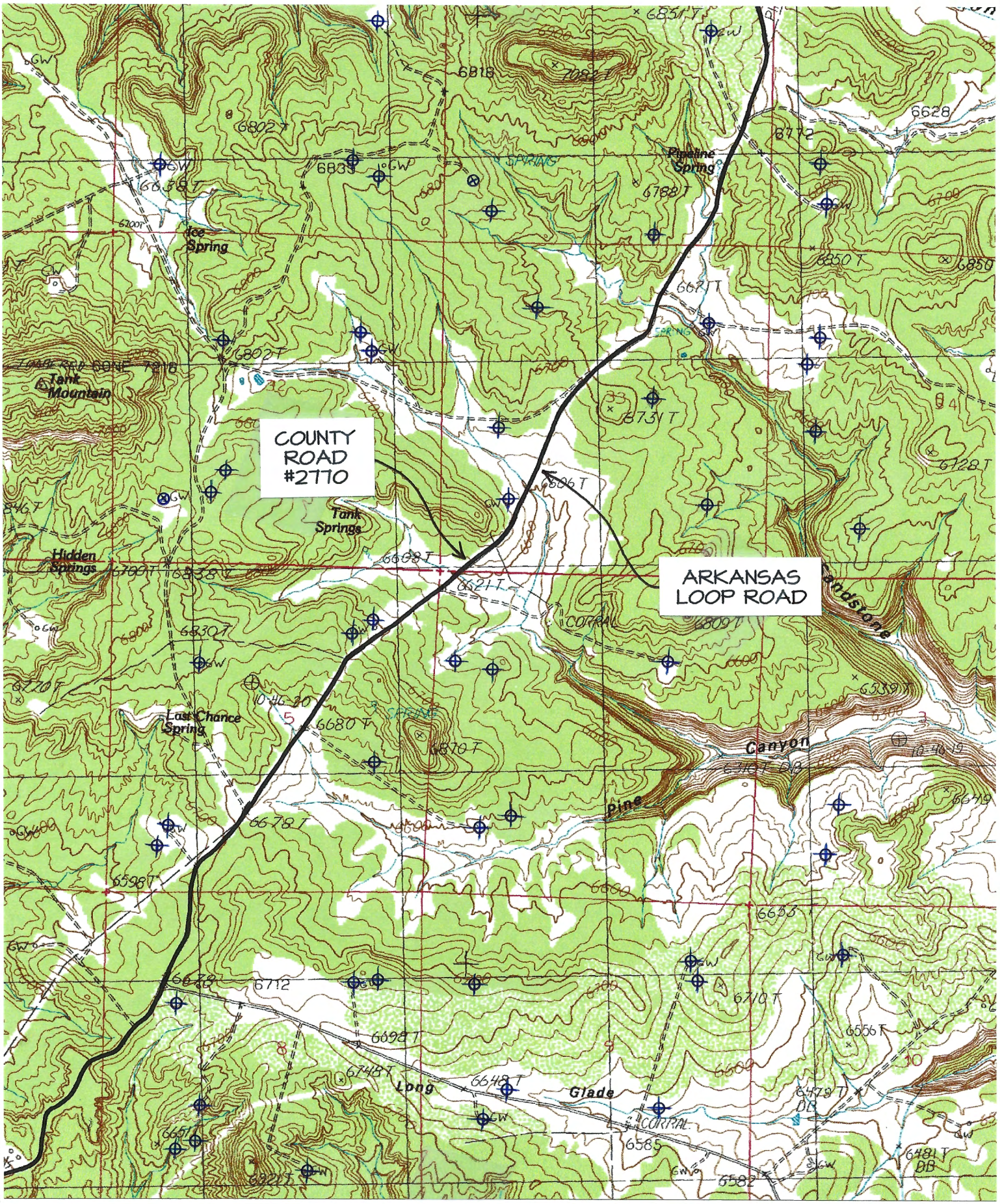


TOPO NAMES : TURLEY & MOUNT NEBO ⊕ PRODUCING WELL ⊗ PLUGGED & ABANDONED WELL

Received by OCD: 4/30/2026 9:03:44 AM

HILCORP ENERGY COMPANY TRAIL CANYON 100 FEDERAL COM #001H

1547' FSL & 459' FEL, SECTION 12, T32N, R9W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO

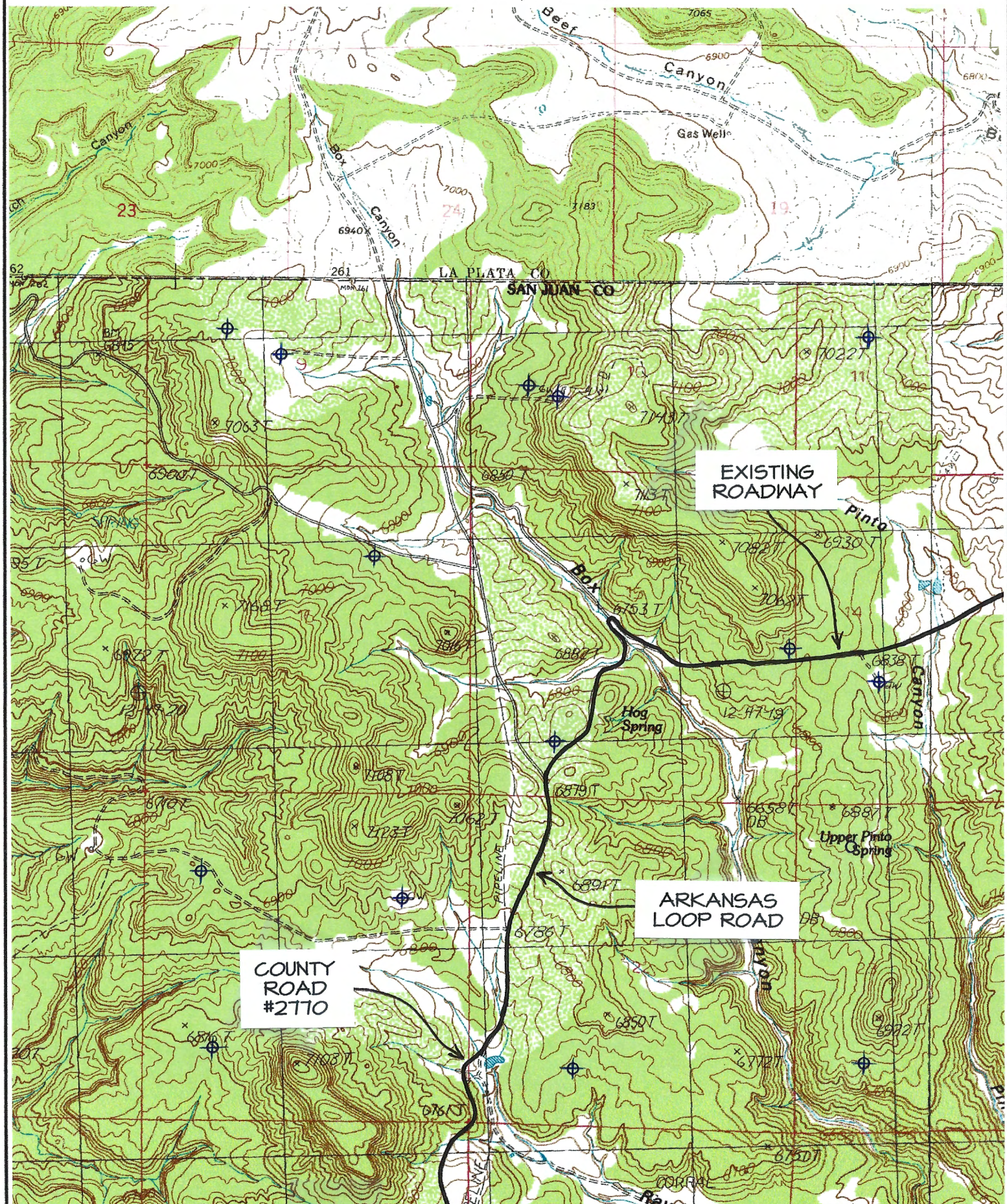


TOPO NAME : MOUNT NEBO ⊕ PRODUCING WELL ⊗ PLUGGED & ABANDONED WELL

Received by OCD: 4/30/2026 9:03:11 AM

HILCORP ENERGY COMPANY TRAIL CANYON 100 FEDERAL COM #001H

1547' FSL & 459' FEL, SECTION 12, T32N, R9W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO

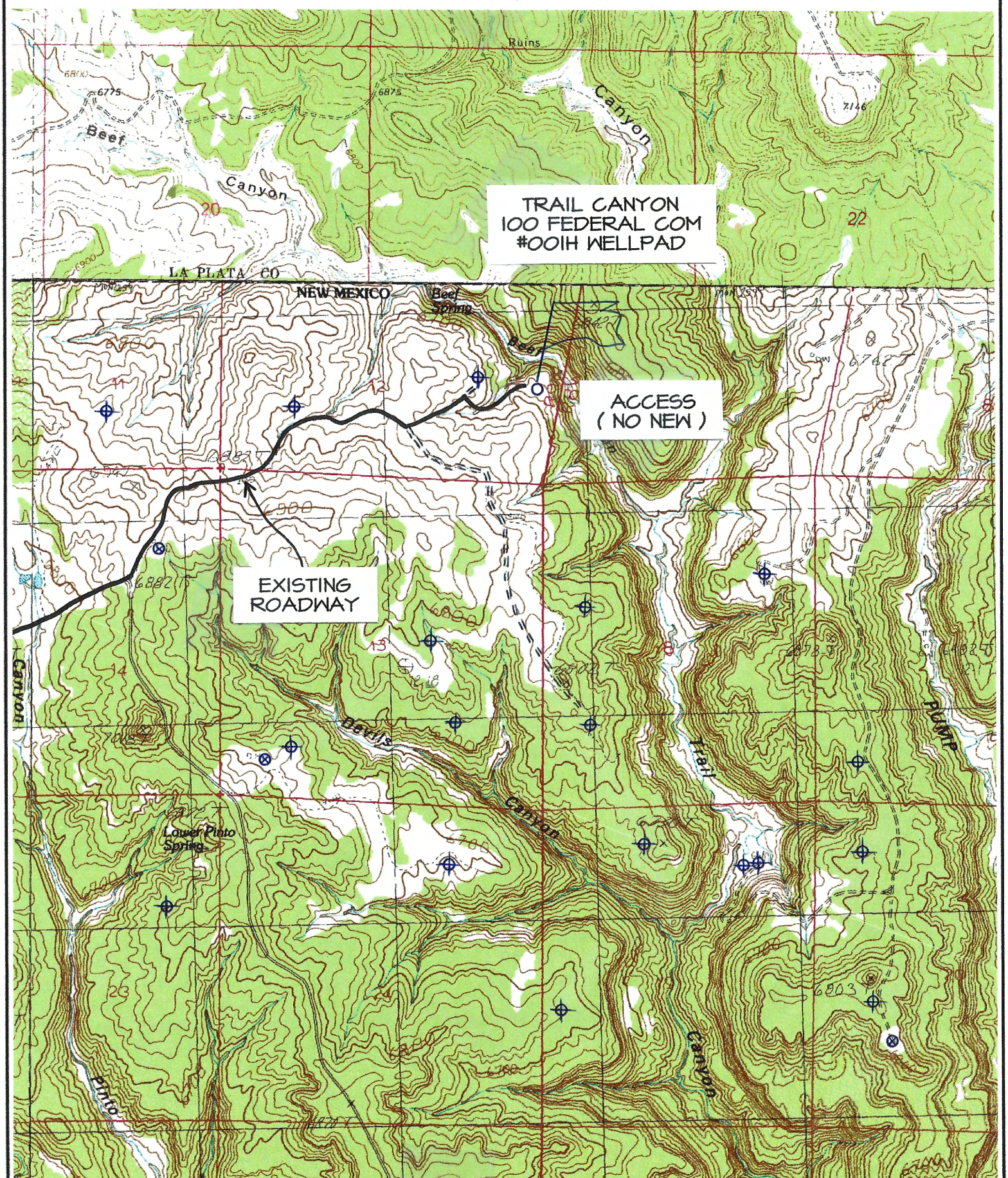


TOPO NAME : MOUNT NEBO ⊕ PRODUCING WELL ⊗ PLUGGED & ABANDONED WELL

Received by OCD: 1/30/2026 9:03:11 AM

HILCORP ENERGY COMPANY TRAIL CANYON 100 FEDERAL COM #001H

1547' FSL & 459' FEL, SECTION 12, T32N, R9W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO



TOPO NAMES :
MOUNT NEBO & ANASTACIO SPRINGS

⊕ PRODUCING WELL ⊗ PLUGGED & ABANDONED WELL

Received by OCD: 4/30/2026 9:03:11 AM

Directions from the Intersection of US Hwy 550 & State Hwy 173

in Aztec, NM to Hilcorp Trail Canyon 100 Federal Com #001H

1547' FSL & 459' FEL, Section 12, T32N, R9W, N.M.P.M., San Juan County, NM

Latitude: 36.995343°N Longitude: -107.722750°W Datum: NAD1983

From the intersection of US Hwy 550 & State Hwy 173 in Aztec, NM, travel Northerly on US Hwy 550 for 3.0 miles to Mile Marker 164;

Go Right (Easterly) exiting US Hwy 550 on County Road #2770 (aka Hart Canyon Road) for 4.7 miles to fork in roadway;

Go Straight (Easterly) remaining on County Road #2770 (aka Hart Canyon Road) for 1.2 miles to fork in roadway;

Go Straight (Easterly) remaining on County Road #2770 (aka Hart Canyon Road) for 0.6 miles to fork in roadway;

Go Left (North-easterly) remaining on County Road #2770 (aka Arkansas Loop Road) for 0.6 miles to fork in roadway;

Go Straight (North-easterly) remaining on County Road #2770 (aka Arkansas Loop Road) for 1.0 miles to 4-way intersection;

Go Straight (North-easterly) remaining on County Road #2770 (aka Arkansas Loop Road) for 1.1 miles to fork in roadway;

Go Straight (North-easterly) remaining on County Road #2770 (aka Arkansas Loop Road) for 1.0 miles to fork in roadway;

Go Left which is straight (North-easterly) remaining on County Road #2770 (aka Arkansas Loop Road) for 0.6 miles to fork in roadway;

Go Straight (North-easterly) remaining on County Road #2770 (aka Arkansas Loop Road) for 0.9 miles to fork in roadway;

Go Straight (North-easterly) remaining on County Road #2770 (aka Arkansas Loop Road) for 0.7 miles to fork in roadway;

Go Straight (North-easterly) remaining on County Road #2770 (aka Arkansas Loop Road) for 1.0 miles to fork in roadway;

Go Straight (North-easterly) remaining on County Road #2770 (aka Arkansas Loop Road) for 1.3 miles to fork in roadway;

Go Right which is straight (Northerly) remaining on County Road #2770 (aka Arkansas Loop Road) for 0.5 miles to fork in roadway;

Go Right (North-easterly) exiting County Road #2770 (aka Arkansas Loop Road) for 1.5 miles to fork in roadway;

Go Left which is straight (North-easterly) for 0.5 miles to fork in roadway:

Go Left (North-easterly) for 0.3 miles to fork in roadway;

Go Right (North-easterly) for 0.8 miles to fork in roadway;

Go Left (North-easterly) for 0.2 miles to fork in roadway;

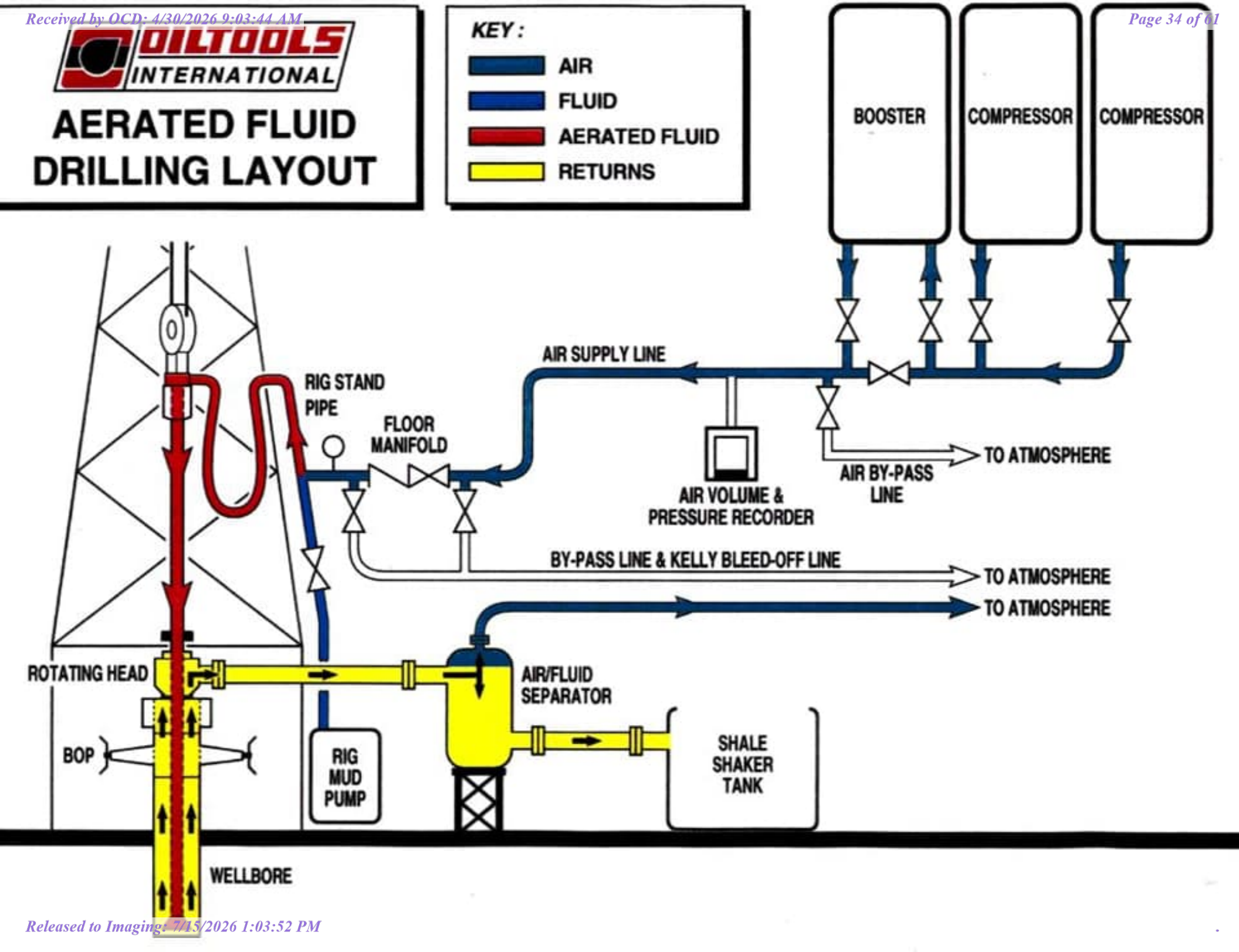
Go Right (South-easterly) for 0.2 miles to Hilcorp Trail Canyon 100 Federal Com #001H staked location which is twinned on Hilcorp Trail Canyon #100S existing location.

Received by OCD: 4/30/2026 9:03:44 AM

OILTOOLS INTERNATIONAL

AERATED FLUID DRILLING LAYOUT

KEY :
- AIR
- FLUID
- AERATED FLUID
- RETURNS



Released to Imaging: 7/15/2026 1:03:52 PM

Company: Hilcorp Energy - San Juan Basin
Project: San Juan, NM NAD27
Site: Trail Canyon Pad
Well: Trail Canyon 100 Fed Com 001H
Wellbore: Pilot
Design: Plan #2

Scientific Drilling

Well Details: Trail Canyon 100 Fed Com 001H

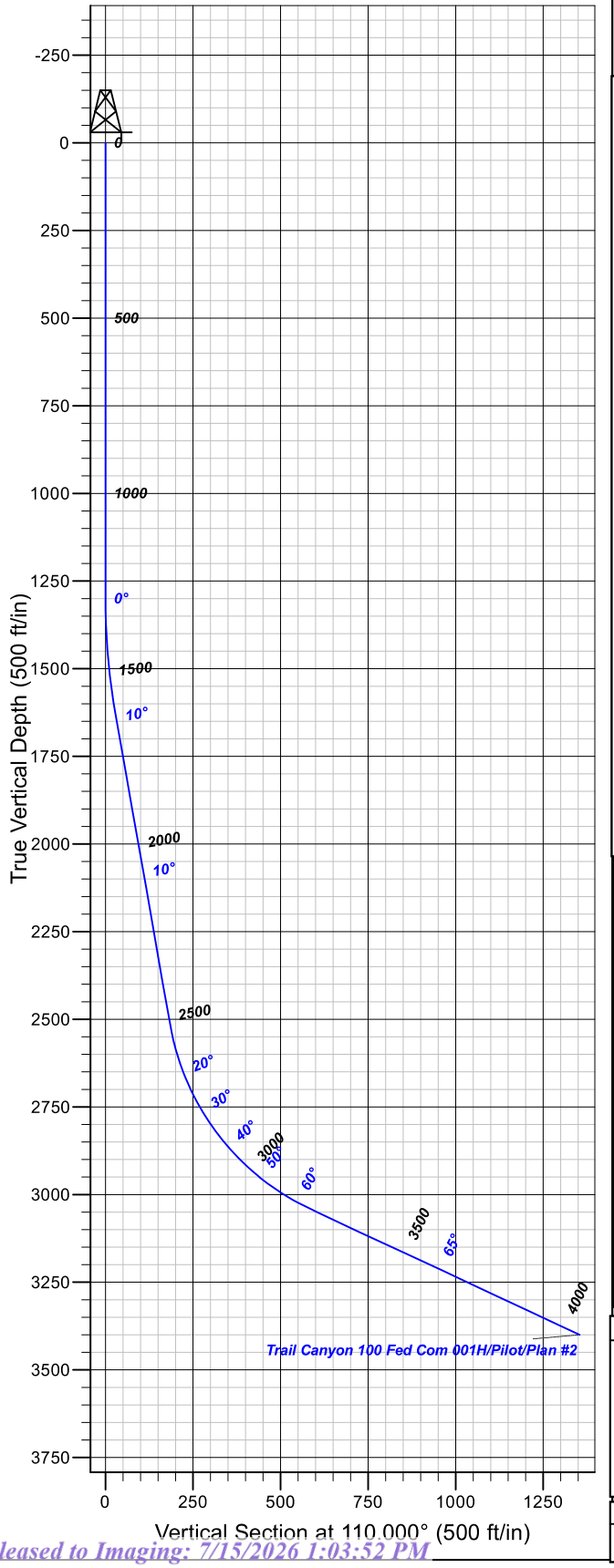
GL 6663' & RKB 17' @ 6680.00ft

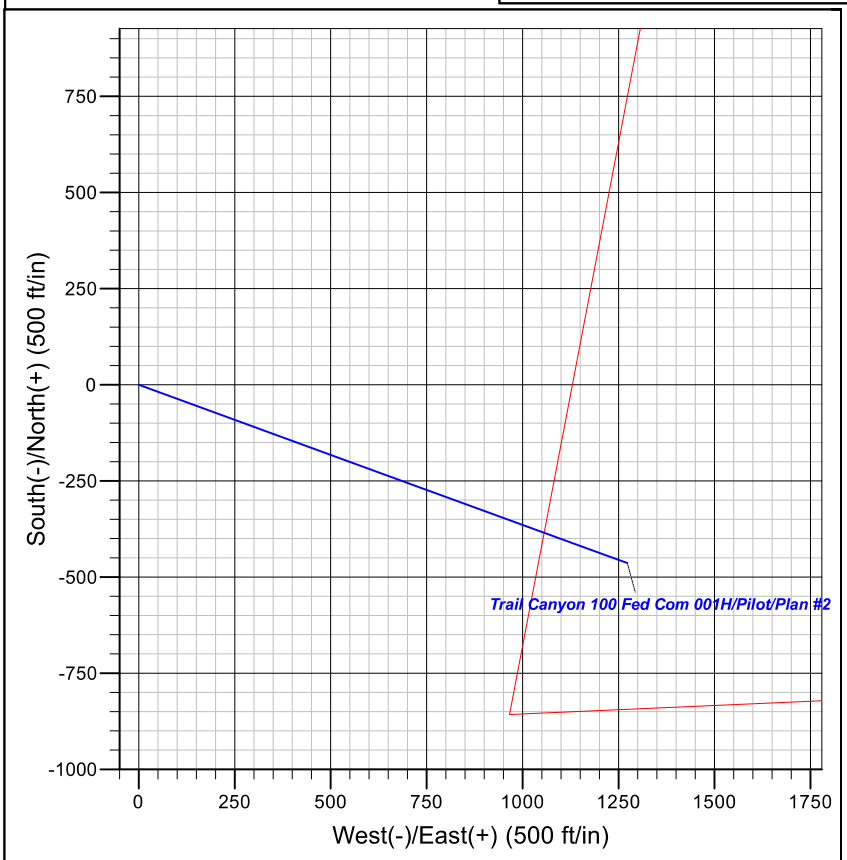
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	2181592.13	532473.99	36.995340	-107.722134	

T M

Azimuths to True North
Magnetic North: 8.50°

Magnetic Field
Strength: 49186.4nT
Dip Angle: 63.25°
Date: 4/9/2025
Model: HDGM2025





FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1968.00	1974.88	Ojo Alamo
2172.00	2182.03	Kirtland
3085.00	3320.92	Fruitland
3335.00	3912.47	Top of Seam
3349.00	3945.60	Bottom of Seam

Plan: Plan #2

14:55, May 20 2025
Created By: Janie Collins

PROJECT DETAILS: San Juan, NM NAD27

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico West 3003

System Datum: Mean Sea Level

CASING DETAILS

No casing data is available

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00
1300.00	0.00	0.000	1300.00	0.00	0.00	0.00	0.00	0.00
1633.33	10.00	110.000	1631.64	-9.92	27.27	3.00	110.00	29.02
2533.33	10.00	110.000	2517.97	-63.38	174.12	0.00	0.00	185.30
3220.84	65.00	110.000	3042.70	-201.09	552.48	8.00	0.00	587.94
4066.28	65.00	110.000	3400.00	-463.15	1272.50	0.00	0.00	1354.17

DESIGN TARGET DETAILS

No target data is available.

Hilcorp Energy Company

Hilcorp Energy - San Juan Basin

San Juan, NM NAD27
Trail Canyon Pad
Trail Canyon 100 Fed Com 001H

Pilot

Plan: Plan #2

Standard Planning Report

20 May, 2025

Scientific Drilling

www.scientificdrilling.com

Hilcorp Energy Company

Scientific Drilling
Planning Report

Scientific Drilling

Database:	Grand Junction	**Local Co-ordinate Reference:**	Well Trail Canyon 100 Fed Com 001H
Company:	Hilcorp Energy - San Juan Basin	**TVD Reference:**	GL 6663' & RKB 17' @ 6680.00ft
Project:	San Juan, NM NAD27	**MD Reference:**	GL 6663' & RKB 17' @ 6680.00ft
Site:	Trail Canyon Pad	**North Reference:**	True
Well:	Trail Canyon 100 Fed Com 001H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Pilot		
Design:	Plan #2		

Project San Juan, NM NAD27

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico West 3003		

Site Trail Canyon Pad

Site Position:		**Northing:**	2,181,592.13 usft	**Latitude:**	36.995340
From:	Lat/Long	**Easting:**	532,473.99 usft	**Longitude:**	-107.722134
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.20 in	**Grid Convergence:**	0.07 °

Well Trail Canyon 100 Fed Com 001H

Well Position	**+N/-S**	0.00 ft	**Northing:**	2,181,592.13 usft	**Latitude:**	36.995340
	+E/-W	0.00 ft	**Easting:**	532,473.99 usft	**Longitude:**	-107.722134
Position Uncertainty		0.00 ft	**Wellhead Elevation:**		**Ground Level:**	6,663.00 ft

Wellbore Pilot

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2025	4/9/2025	8.50	63.25	49,186.40000000

Design Plan #2

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	110.000

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	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	0.00	0.000	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,633.33	10.00	110.000	1,631.64	-9.92	27.27	3.00	3.00	0.00	110.00	
2,533.33	10.00	110.000	2,517.97	-63.38	174.12	0.00	0.00	0.00	0.00	
3,220.84	65.00	110.000	3,042.70	-201.09	552.48	8.00	8.00	0.00	0.00	
4,066.28	65.00	110.000	3,400.00	-463.15	1,272.50	0.00	0.00	0.00	0.00	

Released to Imaging: 7/15/2026 1:03:52 PM

Hilcorp Energy Company

Scientific Drilling

Planning Report

Scientific Drilling

Database:	Grand Junction	**Local Co-ordinate Reference:**	Well Trail Canyon 100 Fed Com 001H
Company:	Hilcorp Energy - San Juan Basin	**TVD Reference:**	GL 6663' & RKB 17' @ 6680.00ft
Project:	San Juan, NM NAD27	**MD Reference:**	GL 6663' & RKB 17' @ 6680.00ft
Site:	Trail Canyon Pad	**North Reference:**	True
Well:	Trail Canyon 100 Fed Com 001H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Pilot		
Design:	Plan #2		

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	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.000	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.000	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.000	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.000	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.000	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.000	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.000	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.000	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.000	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.000	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	3.00	110.000	1,399.95	-0.90	2.46	2.62	3.00	3.00	0.00
1,500.00	6.00	110.000	1,499.63	-3.58	9.83	10.46	3.00	3.00	0.00
1,600.00	9.00	110.000	1,598.77	-8.04	22.10	23.51	3.00	3.00	0.00
1,633.33	10.00	110.000	1,631.64	-9.92	27.27	29.02	3.00	3.00	0.00
1,700.00	10.00	110.000	1,697.30	-13.88	38.14	40.59	0.00	0.00	0.00
1,800.00	10.00	110.000	1,795.78	-19.82	54.46	57.96	0.00	0.00	0.00
1,900.00	10.00	110.000	1,894.26	-25.76	70.78	75.32	0.00	0.00	0.00
2,000.00	10.00	110.000	1,992.74	-31.70	87.10	92.69	0.00	0.00	0.00
2,100.00	10.00	110.000	2,091.22	-37.64	103.41	110.05	0.00	0.00	0.00
2,200.00	10.00	110.000	2,189.70	-43.58	119.73	127.42	0.00	0.00	0.00
2,300.00	10.00	110.000	2,288.18	-49.52	136.05	144.78	0.00	0.00	0.00
2,400.00	10.00	110.000	2,386.66	-55.46	152.37	162.15	0.00	0.00	0.00
2,500.00	10.00	110.000	2,485.14	-61.40	168.68	179.51	0.00	0.00	0.00
2,533.33	10.00	110.000	2,517.97	-63.38	174.12	185.30	0.00	0.00	0.00
2,600.00	15.33	110.000	2,582.99	-68.37	187.86	199.91	8.00	8.00	0.00
2,700.00	23.33	110.000	2,677.28	-79.69	218.94	232.99	8.00	8.00	0.00
2,800.00	31.33	110.000	2,766.04	-95.38	262.05	278.87	8.00	8.00	0.00
2,900.00	39.33	110.000	2,847.55	-115.14	316.35	336.66	8.00	8.00	0.00
3,000.00	47.33	110.000	2,920.23	-138.59	380.79	405.22	8.00	8.00	0.00
3,100.00	55.33	110.000	2,982.66	-165.28	454.10	483.24	8.00	8.00	0.00
3,200.00	63.33	110.000	3,033.62	-194.67	534.86	569.19	8.00	8.00	0.00
3,220.84	65.00	110.000	3,042.70	-201.09	552.48	587.94	8.00	8.00	0.00
3,300.00	65.00	110.000	3,076.16	-225.63	619.90	659.69	0.00	0.00	0.00
3,400.00	65.00	110.000	3,118.42	-256.62	705.07	750.32	0.00	0.00	0.00
3,500.00	65.00	110.000	3,160.68	-287.62	790.23	840.95	0.00	0.00	0.00
3,600.00	65.00	110.000	3,202.94	-318.62	875.40	931.58	0.00	0.00	0.00
3,700.00	65.00	110.000	3,245.20	-349.62	960.56	1,022.21	0.00	0.00	0.00
3,800.00	65.00	110.000	3,287.47	-380.61	1,045.73	1,112.84	0.00	0.00	0.00
3,900.00	65.00	110.000	3,329.73	-411.61	1,130.89	1,203.47	0.00	0.00	0.00
4,000.00	65.00	110.000	3,371.99	-442.61	1,216.06	1,294.10	0.00	0.00	0.00
4,066.28	65.00	110.000	3,400.00	-463.15	1,272.50	1,354.17	0.00	0.00	0.00

Hilcorp Energy Company

Scientific Drilling

Planning Report

Scientific Drilling

Database:	Grand Junction	**Local Co-ordinate Reference:**	Well Trail Canyon 100 Fed Com 001H
Company:	Hilcorp Energy - San Juan Basin	**TVD Reference:**	GL 6663' & RKB 17' @ 6680.00ft
Project:	San Juan, NM NAD27	**MD Reference:**	GL 6663' & RKB 17' @ 6680.00ft
Site:	Trail Canyon Pad	**North Reference:**	True
Well:	Trail Canyon 100 Fed Com 001H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Pilot		
Design:	Plan #2		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,974.88	1,968.00	Ojo Alamo		0.00	0.000
2,182.03	2,172.00	Kirtland		0.00	0.000
3,320.92	3,085.00	Fruitland		0.00	0.000
3,912.47	3,335.00	Top of Seam		0.00	0.000
3,945.60	3,349.00	Bottom of Seam		0.00	0.000

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
3,320.92	3,085.00	-232.11	637.72	Top FC

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Hilcorp Energy Company

Trail Canyon 100 Fed Com 001H
Lateral 1
Plan #2

GL 6663' & RKB 17' @ 6680.00ft

Northing	Easting	Latitude	Longitude
2181592.13	532473.99	36.995340	-107.722134

PROJECT DETAILS: San Juan, NM NAD27

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico West 3003
System Datum: Mean Sea Level

Scientific Drilling

PLAN DETAILS

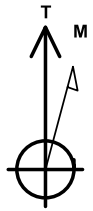
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect	Annotation
3755.00	65.00	110.000	3268.45	-366.66	1007.40	0.00	1031.33	
4040.14	90.07	91.813	3330.00	-416.56	1277.79	10.74	1304.63	
4085.16	90.07	91.813	3329.94	-417.99	1322.78	0.00	1349.61	
11931.96	90.07	91.813	3320.00	-666.24	9165.66	0.00	9189.84	

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
TC100FC Lat 1 BHL	3320.00	-666.24	9165.66	2180936.60	541640.40	36.993506	-107.690749

Plan: Plan #2 (Trail Canyon 100 Fed Com 001H/Lateral 1)

Created By: Janie Collins Date: 15:02, May 20 2025

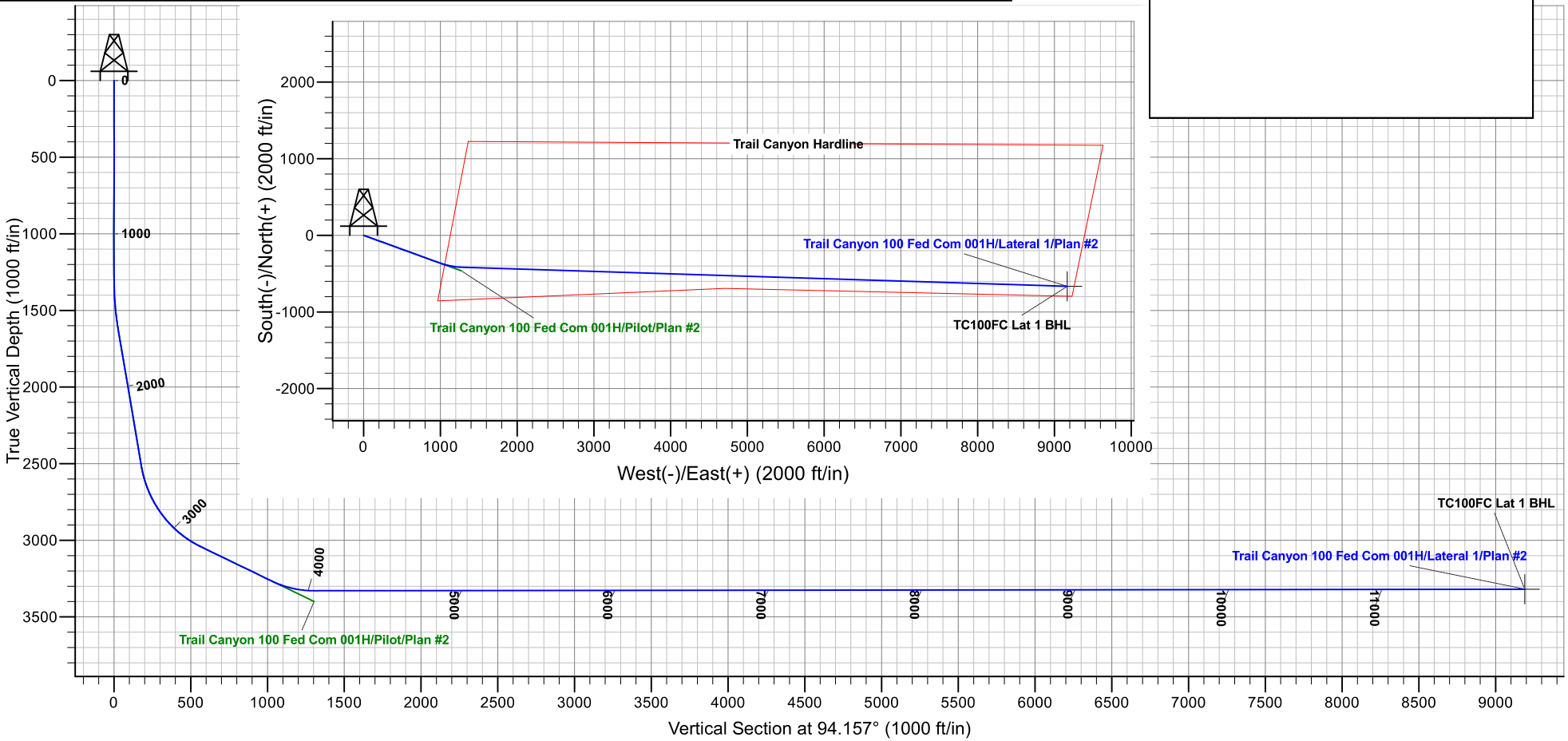


Azimuths to True North
Magnetic North: 8.50°

Magnetic Field
Strength: 49186.4nT
Dip Angle: 63.25°
Date: 4/9/2025
Model: HDGM2025

CASING DETAILS

No casing data is available



Received by OCD: 4/30/2026 9:03:44 AM

Hilcorp Energy Company

Hilcorp Energy - San Juan Basin

San Juan, NM NAD27
Trail Canyon Pad
Trail Canyon 100 Fed Com 001H

Lateral 1

Plan: Plan #2

Standard Planning Report

20 May, 2025

Scientific Drilling

www.scientificdrilling.com

Hilcorp Energy Company

Scientific Drilling

Planning Report

Scientific Drilling

Database:	Grand Junction	**Local Co-ordinate Reference:**	Well Trail Canyon 100 Fed Com 001H
Company:	Hilcorp Energy - San Juan Basin	**TVD Reference:**	GL 6663' & RKB 17' @ 6680.00ft
Project:	San Juan, NM NAD27	**MD Reference:**	GL 6663' & RKB 17' @ 6680.00ft
Site:	Trail Canyon Pad	**North Reference:**	True
Well:	Trail Canyon 100 Fed Com 001H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Lateral 1		
Design:	Plan #2		

Project San Juan, NM NAD27

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico West 3003		

Site Trail Canyon Pad

Site Position:		**Northing:**	2,181,592.13 usft	**Latitude:**	36.995340
From:	Lat/Long	**Easting:**	532,473.99 usft	**Longitude:**	-107.722134
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.20 in	**Grid Convergence:**	0.07 °

Well Trail Canyon 100 Fed Com 001H

Well Position	**+N/-S**	0.00 ft	**Northing:**	2,181,592.13 usft	**Latitude:**	36.995340
	+E/-W	0.00 ft	**Easting:**	532,473.99 usft	**Longitude:**	-107.722134
Position Uncertainty		0.00 ft	**Wellhead Elevation:**		**Ground Level:**	6,663.00 ft

Wellbore Lateral 1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2025	4/9/2025	8.50	63.25	49,186.40000000

Design Plan #2

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	3,755.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	94.157

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
3,755.00	65.00	110.000	3,268.45	-366.66	1,007.40	0.00	0.00	0.00	0.00	
4,040.14	90.07	91.813	3,330.00	-416.56	1,277.79	10.74	8.79	-6.38	-37.78	
4,085.16	90.07	91.813	3,329.94	-417.99	1,322.78	0.00	0.00	0.00	0.00	
11,931.97	90.07	91.813	3,320.00	-666.24	9,165.66	0.00	0.00	0.00	0.00	TC100FC Lat 1 BHL

Hilcorp Energy Company

Scientific Drilling

Planning Report

Scientific Drilling

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Company:	Hilcorp Energy - San Juan Basin	**TVD Reference:**	GL 6663' & RKB 17' @ 6680.00ft
Project:	San Juan, NM NAD27	**MD Reference:**	GL 6663' & RKB 17' @ 6680.00ft
Site:	Trail Canyon Pad	**North Reference:**	True
Well:	Trail Canyon 100 Fed Com 001H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Lateral 1		
Design:	Plan #2		

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)
3,755.00	65.00	110.000	3,268.45	-366.66	1,007.40	1,031.33	0.00	0.00	0.00
3,800.00	68.85	106.827	3,286.09	-379.72	1,046.67	1,071.45	10.74	8.56	-7.05
3,900.00	77.60	100.304	3,314.95	-402.02	1,139.63	1,165.77	10.74	8.74	-6.52
4,000.00	86.49	94.210	3,328.79	-414.46	1,237.73	1,264.52	10.74	8.89	-6.09
4,040.14	90.07	91.813	3,330.00	-416.56	1,277.79	1,304.63	10.74	8.93	-5.97
4,085.16	90.07	91.813	3,329.94	-417.99	1,322.78	1,349.61	0.00	0.00	0.00
4,100.00	90.07	91.813	3,329.93	-418.46	1,337.62	1,364.44	0.00	0.00	0.00
4,200.00	90.07	91.813	3,329.80	-421.62	1,437.57	1,464.35	0.00	0.00	0.00
4,300.00	90.07	91.813	3,329.68	-424.78	1,537.52	1,564.27	0.00	0.00	0.00
4,400.00	90.07	91.813	3,329.56	-427.95	1,637.47	1,664.18	0.00	0.00	0.00
4,500.00	90.07	91.813	3,329.44	-431.11	1,737.42	1,764.10	0.00	0.00	0.00
4,600.00	90.07	91.813	3,329.32	-434.27	1,837.37	1,864.02	0.00	0.00	0.00
4,700.00	90.07	91.813	3,329.19	-437.44	1,937.32	1,963.93	0.00	0.00	0.00
4,800.00	90.07	91.813	3,329.07	-440.60	2,037.27	2,063.85	0.00	0.00	0.00
4,900.00	90.07	91.813	3,328.95	-443.77	2,137.22	2,163.77	0.00	0.00	0.00
5,000.00	90.07	91.813	3,328.83	-446.93	2,237.17	2,263.68	0.00	0.00	0.00
5,100.00	90.07	91.813	3,328.70	-450.09	2,337.12	2,363.60	0.00	0.00	0.00
5,200.00	90.07	91.813	3,328.58	-453.26	2,437.07	2,463.51	0.00	0.00	0.00
5,300.00	90.07	91.813	3,328.46	-456.42	2,537.02	2,563.43	0.00	0.00	0.00
5,400.00	90.07	91.813	3,328.34	-459.58	2,636.97	2,663.35	0.00	0.00	0.00
5,500.00	90.07	91.813	3,328.22	-462.75	2,736.92	2,763.26	0.00	0.00	0.00
5,600.00	90.07	91.813	3,328.09	-465.91	2,836.87	2,863.18	0.00	0.00	0.00
5,700.00	90.07	91.813	3,327.97	-469.08	2,936.82	2,963.10	0.00	0.00	0.00
5,800.00	90.07	91.813	3,327.85	-472.24	3,036.77	3,063.01	0.00	0.00	0.00
5,900.00	90.07	91.813	3,327.73	-475.40	3,136.72	3,162.93	0.00	0.00	0.00
6,000.00	90.07	91.813	3,327.60	-478.57	3,236.67	3,262.84	0.00	0.00	0.00
6,100.00	90.07	91.813	3,327.48	-481.73	3,336.62	3,362.76	0.00	0.00	0.00
6,200.00	90.07	91.813	3,327.36	-484.89	3,436.57	3,462.68	0.00	0.00	0.00
6,300.00	90.07	91.813	3,327.24	-488.06	3,536.52	3,562.59	0.00	0.00	0.00
6,400.00	90.07	91.813	3,327.12	-491.22	3,636.47	3,662.51	0.00	0.00	0.00
6,500.00	90.07	91.813	3,326.99	-494.39	3,736.42	3,762.43	0.00	0.00	0.00
6,600.00	90.07	91.813	3,326.87	-497.55	3,836.37	3,862.34	0.00	0.00	0.00
6,700.00	90.07	91.813	3,326.75	-500.71	3,936.32	3,962.26	0.00	0.00	0.00
6,800.00	90.07	91.813	3,326.63	-503.88	4,036.27	4,062.17	0.00	0.00	0.00
6,900.00	90.07	91.813	3,326.51	-507.04	4,136.22	4,162.09	0.00	0.00	0.00
7,000.00	90.07	91.813	3,326.38	-510.20	4,236.17	4,262.01	0.00	0.00	0.00
7,100.00	90.07	91.813	3,326.26	-513.37	4,336.12	4,361.92	0.00	0.00	0.00
7,200.00	90.07	91.813	3,326.14	-516.53	4,436.07	4,461.84	0.00	0.00	0.00
7,300.00	90.07	91.813	3,326.02	-519.70	4,536.02	4,561.76	0.00	0.00	0.00
7,400.00	90.07	91.813	3,325.89	-522.86	4,635.97	4,661.67	0.00	0.00	0.00
7,500.00	90.07	91.813	3,325.77	-526.02	4,735.91	4,761.59	0.00	0.00	0.00
7,600.00	90.07	91.813	3,325.65	-529.19	4,835.86	4,861.50	0.00	0.00	0.00
7,700.00	90.07	91.813	3,325.53	-532.35	4,935.81	4,961.42	0.00	0.00	0.00
7,800.00	90.07	91.813	3,325.41	-535.51	5,035.76	5,061.34	0.00	0.00	0.00
7,900.00	90.07	91.813	3,325.28	-538.68	5,135.71	5,161.25	0.00	0.00	0.00
8,000.00	90.07	91.813	3,325.16	-541.84	5,235.66	5,261.17	0.00	0.00	0.00
8,100.00	90.07	91.813	3,325.04	-545.01	5,335.61	5,361.09	0.00	0.00	0.00
8,200.00	90.07	91.813	3,324.92	-548.17	5,435.56	5,461.00	0.00	0.00	0.00
8,300.00	90.07	91.813	3,324.79	-551.33	5,535.51	5,560.92	0.00	0.00	0.00
8,400.00	90.07	91.813	3,324.67	-554.50	5,635.46	5,660.83	0.00	0.00	0.00
8,500.00	90.07	91.813	3,324.55	-557.66	5,735.41	5,760.75	0.00	0.00	0.00
8,600.00	90.07	91.813	3,324.43	-560.82	5,835.36	5,860.67	0.00	0.00	0.00
8,700.00	90.07	91.813	3,324.31	-563.99	5,935.31	5,960.58	0.00	0.00	0.00
8,800.00	90.07	91.813	3,324.18	-567.15	6,035.26	6,060.50	0.00	0.00	0.00

Hilcorp Energy Company

Scientific Drilling

Planning Report

Scientific Drilling

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Project:	San Juan, NM NAD27	**MD Reference:**	GL 6663' & RKB 17' @ 6680.00ft
Site:	Trail Canyon Pad	**North Reference:**	True
Well:	Trail Canyon 100 Fed Com 001H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Lateral 1		
Design:	Plan #2		

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)
8,900.00	90.07	91.813	3,324.06	-570.32	6,135.21	6,160.42	0.00	0.00	0.00
9,000.00	90.07	91.813	3,323.94	-573.48	6,235.16	6,260.33	0.00	0.00	0.00
9,100.00	90.07	91.813	3,323.82	-576.64	6,335.11	6,360.25	0.00	0.00	0.00
9,200.00	90.07	91.813	3,323.70	-579.81	6,435.06	6,460.16	0.00	0.00	0.00
9,300.00	90.07	91.813	3,323.57	-582.97	6,535.01	6,560.08	0.00	0.00	0.00
9,400.00	90.07	91.813	3,323.45	-586.13	6,634.96	6,660.00	0.00	0.00	0.00
9,500.00	90.07	91.813	3,323.33	-589.30	6,734.91	6,759.91	0.00	0.00	0.00
9,600.00	90.07	91.813	3,323.21	-592.46	6,834.86	6,859.83	0.00	0.00	0.00
9,700.00	90.07	91.813	3,323.08	-595.63	6,934.81	6,959.74	0.00	0.00	0.00
9,800.00	90.07	91.813	3,322.96	-598.79	7,034.76	7,059.66	0.00	0.00	0.00
9,900.00	90.07	91.813	3,322.84	-601.95	7,134.71	7,159.58	0.00	0.00	0.00
10,000.00	90.07	91.813	3,322.72	-605.12	7,234.66	7,259.49	0.00	0.00	0.00
10,100.00	90.07	91.813	3,322.60	-608.28	7,334.61	7,359.41	0.00	0.00	0.00
10,200.00	90.07	91.813	3,322.47	-611.44	7,434.56	7,459.33	0.00	0.00	0.00
10,300.00	90.07	91.813	3,322.35	-614.61	7,534.51	7,559.24	0.00	0.00	0.00
10,400.00	90.07	91.813	3,322.23	-617.77	7,634.46	7,659.16	0.00	0.00	0.00
10,500.00	90.07	91.813	3,322.11	-620.94	7,734.41	7,759.07	0.00	0.00	0.00
10,600.00	90.07	91.813	3,321.98	-624.10	7,834.36	7,858.99	0.00	0.00	0.00
10,700.00	90.07	91.813	3,321.86	-627.26	7,934.31	7,958.91	0.00	0.00	0.00
10,800.00	90.07	91.813	3,321.74	-630.43	8,034.26	8,058.82	0.00	0.00	0.00
10,900.00	90.07	91.813	3,321.62	-633.59	8,134.21	8,158.74	0.00	0.00	0.00
11,000.00	90.07	91.813	3,321.50	-636.75	8,234.16	8,258.66	0.00	0.00	0.00
11,100.00	90.07	91.813	3,321.37	-639.92	8,334.11	8,358.57	0.00	0.00	0.00
11,200.00	90.07	91.813	3,321.25	-643.08	8,434.06	8,458.49	0.00	0.00	0.00
11,300.00	90.07	91.813	3,321.13	-646.25	8,534.01	8,558.40	0.00	0.00	0.00
11,400.00	90.07	91.813	3,321.01	-649.41	8,633.96	8,658.32	0.00	0.00	0.00
11,500.00	90.07	91.813	3,320.89	-652.57	8,733.91	8,758.24	0.00	0.00	0.00
11,600.00	90.07	91.813	3,320.76	-655.74	8,833.86	8,858.15	0.00	0.00	0.00
11,700.00	90.07	91.813	3,320.64	-658.90	8,933.81	8,958.07	0.00	0.00	0.00
11,800.00	90.07	91.813	3,320.52	-662.06	9,033.76	9,057.99	0.00	0.00	0.00
11,900.00	90.07	91.813	3,320.40	-665.23	9,133.71	9,157.90	0.00	0.00	0.00
11,931.97	90.07	91.813	3,320.00	-666.24	9,165.66	9,189.84	0.00	0.00	0.00

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
TC100FC Lat 1 BHL - plan hits target center - Point	0.00	0.000	3,320.00	-666.24	9,165.66	2,180,936.60	541,640.40	36.993506	-107.690749

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: Hilcorp Energy Company **OGRID:** 372171 **Date:** 9/11/2025

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
Trail Canyon 100 Federal Com 1H	I,	Sec 12, T32N, R12W	1547' S & 459' E	0	2 MMCFD	50 bbl/d

IV. Central Delivery Point Name: Ignacio Gas Processing Plant [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
Trail Canyon 100 Federal Com 1H						**2026**

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: 
Printed Name: Amanda Walker
Title: Operations/Regulatory Tech Sr.
E-mail Address: mwalker@hilcorp.com
Date: 9/11/2025
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OIL CONSERVATION DIVISION **(Only applicable when submitted as a standalone form)**
Approved By:
Title:
Approval Date:
Conditions of Approval:

Hilcorp Energy Natural Gas Management Plan Attachments

VI. Separation Equipment

The operator will select separation equipment for the maximum anticipated throughput and pressure to optimize gas 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.

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. New Drill HZ Gas Wells: 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. New Drill HZ Gas Wells: 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. New Drill HZ Gas Wells: 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. 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 systems 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 that is installed after 5/25/2021 will have an automatic gauging system to minimize the amount of vented natural gas.
c. If a flare stack is installed or replaced after 5/25/2021 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 after 5/25/2021 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.

San Juan County, NM Trail Canyon 100 Federal Com 001H

Hilcorp Energy Company

Technical Drilling Plan (Rev. 1)

Hilcorp Energy Company proposes to drill and complete the referenced horizontal well targeting a coal seam in the Fruitland formation.

Note: This technical drilling plan will be adjusted based upon actual conditions.

1. Location

Date:	March 3, 2026	Pool:	Basin Fruitland Coal
Well Name:	Trail Canyon 100 Fed Com 001H	Ground Elevation (ft. MSL):	6,663’
Surface Hole Location:	36.995340° N, 107.722134° W	Total Depth (ft. TMD/TVD)	11,932’ / 3,320’
Bottom Hole Location:	36.993506° N, 107.690749° W	County, State:	San Juan County, NM

Note: All geographic coordinates on the drilling tech plan and the directional drilling plan refer to NAD 27 geodetic coordinate system. All depths on the drilling tech plan and the directional drilling plan are referenced from an estimated RKB datum of 17’ above ground level.

2. Geological Markers

Anticipated formation tops with comments of any possible water, gas or oil shows are indicated below:

Formation	Depth (ft. TVD)	Remarks
Ojo Alamo	1,968	Water (fresh/useable)
Kirtland	2,172	None
Fruitland Coal	3,085	Gas, Water
Pictured Cliffs	3,483	None

3. Pressure Control Equipment

A. BOP Equipment

See Appendix A for BOP equipment and choke manifold diagram.

- BOP equipment will be nippled up on top of the wellhead after surface casing is set and cemented.
- All pressure control equipment will be rated to meet a 3M minimum.
- A rotating head will be installed on top of the annular as seen in the attached diagram.

B. BOP Pressure Testing

- For all BOP pressure testing, a test unit with a chart recorder and a BOP test plug will be utilized.
- All tests and inspections will be recorded and logged with time and results.
- A full BOP pressure test will be conducted when initially installed or if a seal subject to test pressure is broken, following related repairs, and at a minimum in 30-day intervals.
- The New Mexico Oil & Gas Conservation Division and the BLM will be notified 24 hours in advance of pressure testing BOPE.
- The BOPE will be tested to 250 psi (Low) for 5 minutes and 3,000 psi (High) for 10 minutes.

C. BOP Function Testing

- Annular preventors will be functionally tested at least once per week.
- Pipe and blind rams will be function tested each trip.

D. Casing Pressure Testing

- For all casing pressure testing, a test unit with a chart recorder will be utilized.
- Surface casing will be pressure tested to 600 psi for 30 minutes.
- Intermediate casing will be pressure tested to 1,500 psi for 30 minutes.

4. Casing Program

A. Proposed Casing Program:

Proposed Casing Design							
Casing String	Hole Size	Casing (size/weight/grade)	Top Depth (MD/TVD)	Btm. Depth (MD/TVD)	Collapse	Burst	Tensile
Surface	12-1/4"	9-5/8"-32.3#-H40 (or equiv.)-LTC/BTC	0'	300'/300'	1,370 psi	2,270 psi	254 klbs
Intermediate	8-3/4"	7"-23#-J55 (or equiv.)-LTC/BTC	0'	4,024'/3,990'	3,270 psi	4,360 psi	366 klbs
Intermediate Shoe Joint	8-3/4"	5-1/2"-15.5#-J55 (or equiv.)-LTC/BTC	4,024'/3,990'	4,066'/3,400'	4,040 psi	4,810 psi	217 klbs
Production Liner (Pre-Perforated)	6-1/4"	4-1/2"-11.6#-J55 (or equiv.)-LTC/BTC	3,765'/3,272'	11,932'/3,320'	4,960 psi	5,350 psi	184 klbs

Proposed Casing Design Safety Factors				
Casing String	Burst Design SF	Collapse Design SF	Joint Tensile Design SF	Connection Tensile Design SF
Surface	16.2	12.4	43.7	30.4
Intermediate	2.2	2.1	4.6	5.5
Int. Shoe Joint	2.9	3.0	4.8	4.2
Production	3.1	3.6	1.6	1.9

B. Casing Design Parameters & Calculations (*designed for full wellbore evacuation*):

- Mud Weights used for calculations:

Surface:	9.0 ppg	Intermediate:	9.5 ppg	Production:	10.0 ppg

- Minimum Acceptable Safety Factors:

Burst:	1.15	Collapse:	1.15	Tensile:	1.50

- Casing Safety Factor Calculations:

$$Casing\ Burst\ Safety\ Factor = \frac{Casing\ Burst\ Rating(psi)}{Maximum\ Mud\ Weight\ (ppg) \times TVD(ft) \times 0.052}$$

$$Casing\ Collapse\ Safety\ Factor = Hydrostatic\ of\ Mud\ Weight\ in\ Annulus(psi) - \left[TVD\ of\ Casing\ Shoe\ (ft) \times 0.10\frac{psi}{ft}\right]$$

$$Tensile\ Safety\ Factor = \frac{Tensile\ Rating\ of\ Casing\ String\ (lbs)}{Measured\ Depth\ of\ Casing(ft) \times Casing\ Weight\ \frac{lb}{ft} \times DrillingFluid\ Bouyancy\ Factor}$$

Production Casing Notes:

- The pre-perforated production liner will be dropped off in the open hole (uncemented). The top of the production liner will be ~10' outside of the casing exit (no overlap between the liner and 7" casing).
- The production liner length and setting depth depending on final TD of the 6-1/4" hole section.
- The 7" casing will be set across the setback boundary line and with the casing shoe within the drill block.

5. Proposed Centralizer Program:

Proposed Centralizer Program	
Casing String	Centralizers & Placement
Surface Casing	1 centralizer per joint on bottom 3 joints.
Intermediate Casing	1 centralizer per joint in shoe track with lock collars. 1 centralizer every other joint on bottom 10 joints. 1 centralizer every 3rd joint up to the base of Ojo Alamo. 1 centralizer per joint from base of Ojo Alamo to the top of the Ojo Alamo. 1 centralizer every 3rd joint from top of Ojo Alamo to surface.
Production Casing	N/A

6. Proposed Cement Program:

Proposed Cement Design								
Interval	Depth (ft. MD)	Lead/Tail	Volume (ft^3)	Sacks	Excess (%)	Slurry	Density (ppg)	Planned TOC
Surface	300’	Lead	188 ft^3	136	100%	Class G Cement Yield: 1.38 ft^3/sk	14.6	Surface
		Slurry Additives: CaCl (1%), Cello Flake (0.25 lb/sk), CD-2 (0.2%)						
Intermediate	4,066	Lead	1,034 ft^3	481	100%	ASTM Type III POZ 90-10 Yield: 2.15 ft^3/sk	12.5	Surface
		Slurry Additives: D-CSE 1 (5%), D-MPA2 (0.4%), D-SA1 (1.4%), D-CD2 (0.4%), D-FP1 (0.5%), D-R1 (1.1%), CelloFlake (0.25 lb/sk), D-PhenoSeal (0.25 lb/sk), D-PlexFiber (0.125 lb/sk)						
		Tail	150 ft^3	88	100%	ASTM Type III POZ 90-10 Yield: 1.71 ft^3/sk	13.5	3,566’
		Slurry Additives: D-CSE 1 (5%), D-MPA2 (1.2%), D-FP1 (0.5%), D-R1 (0.1%)						
Production	11,932’	N/A	N/A	N/A	N/A	N/A – Uncemented pre-perforated liner.	N/A	N/A

Cement Program Notes:

- The cement slurry additives may be adjusted to accommodate required pump and compressive test times.
- Actual cement volumes will be determined and may be adjusted onsite based on well conditions.
- For the intermediate hole section, a 2-stage or 3-stage cement job may be performed if hole conditions dictate. If needed, the stage tool(s) will be placed appropriately.
- Cement will be circulated to surface on surface and intermediate casing sections to protect water bearing zones.
- A minimum of 8 hours of wait on cement time will be observed on each hole section to allow adequate time for cement to achieve a minimum of 500 psi of compressive strength. The BOP will not be nippled down, the wellhead will not be installed, the casing will not be tested and the prior casing shoe will not be drilled out until adequate wait on cement time has been observed (8 hours or time to reach 500 psi compressive strength).

7. Drilling Fluids Program

A. Proposed Drilling Fluids Program:

Proposed Drilling Fluids Program					
Interval	Fluid Type	Density	Fluid Loss	Maximum Chlorides	Depth
		(ppg)	(mL/30 min)	(ppm)	(ft. MD)
Surface	Water/Gel	8.4 – 9.2	NC	1,000	0' – 300'
Intermediate	LSND / Gel	8.4 – 9.2	6-16	5,000	300' – 4,066'
Production	LSND / Gel	8.4 – 9.2	6-16	5,000	4,066' – 11,932'

Drilling Fluids Notes:

- In the 6-1/4" production hole section, CaCl2 brine will only be utilized if a weighting agent is necessary for either well control or wellbore stability.
- Lost circulation material may be added to the mud systems to manage fluid losses as hole conditions dictate.
- The well will be drilled utilizing a closed-loop circulating system. Drill cuttings for all hole sections will be transported to an approved disposal site.
- Estimated total volume of drill cuttings for disposal: 592 bbls (3,322 ft^3).

8. Estimated Pressures & Drilling Hazards

A. Estimated Pressures

- Fruitland Coal: 650 – 750 psi
- Pictured Cliffs: 780 psi

- No abnormal temperatures or drilling hazards are anticipated.
- Maximum anticipated surface pressure is 500 psi.

B. Water Flows

- Water flows are possible in the intermediate section. Water flows will be mitigated with increased mud weight.

C. Lost Circulation

- Lost circulation is possible in the intermediate and production sections. Losses will be mitigated by utilizing LCM in the mud system.

D. Hydrogen Sulfide

- No hydrogen sulfide is expected to be encountered based on nearby well production.

9. Pilot Hole

- The 8-3/4" hole will serve as a pilot hole. The hole section will be drilled to a measured depth of 4,066' and cased with 7" casing. A whipstock will be set at ~3,755' to enable a window to be cut into the 7" casing and the 6-1/4" production hole to be drilled. After dropping off the pre-perforated liner in the production section, the whipstock will be retrieved.

10. Testing, Logging, Coring

A. Mud Logging

- Mud loggers will collect formation samples every 60' from the surface casing shoe to both the TD of the pilot hole and TD of the production hole.

B. MWD

- Measurement while drilling tools will be utilized from the surface casing shoe to TD of the production hole to measure and record inclination and azimuth.

C. LWD

- Logging while drilling tools (gamma ray) will be utilized in the intermediate section from the surface casing shoe to the pilot hole section TD.

- Logging while drilling tools (gamma ray) will be utilized while drilling the production section from the intermediate casing kick-off to the production hole section TD to assist in staying in the desired coal seam while drilling the lateral section.

D. Open Hole Logging

- There are no plans to open hole log the well.

E. Coring & Formation Testing

- There are no plans for coring or formation testing.

F. Cased Hole Logging

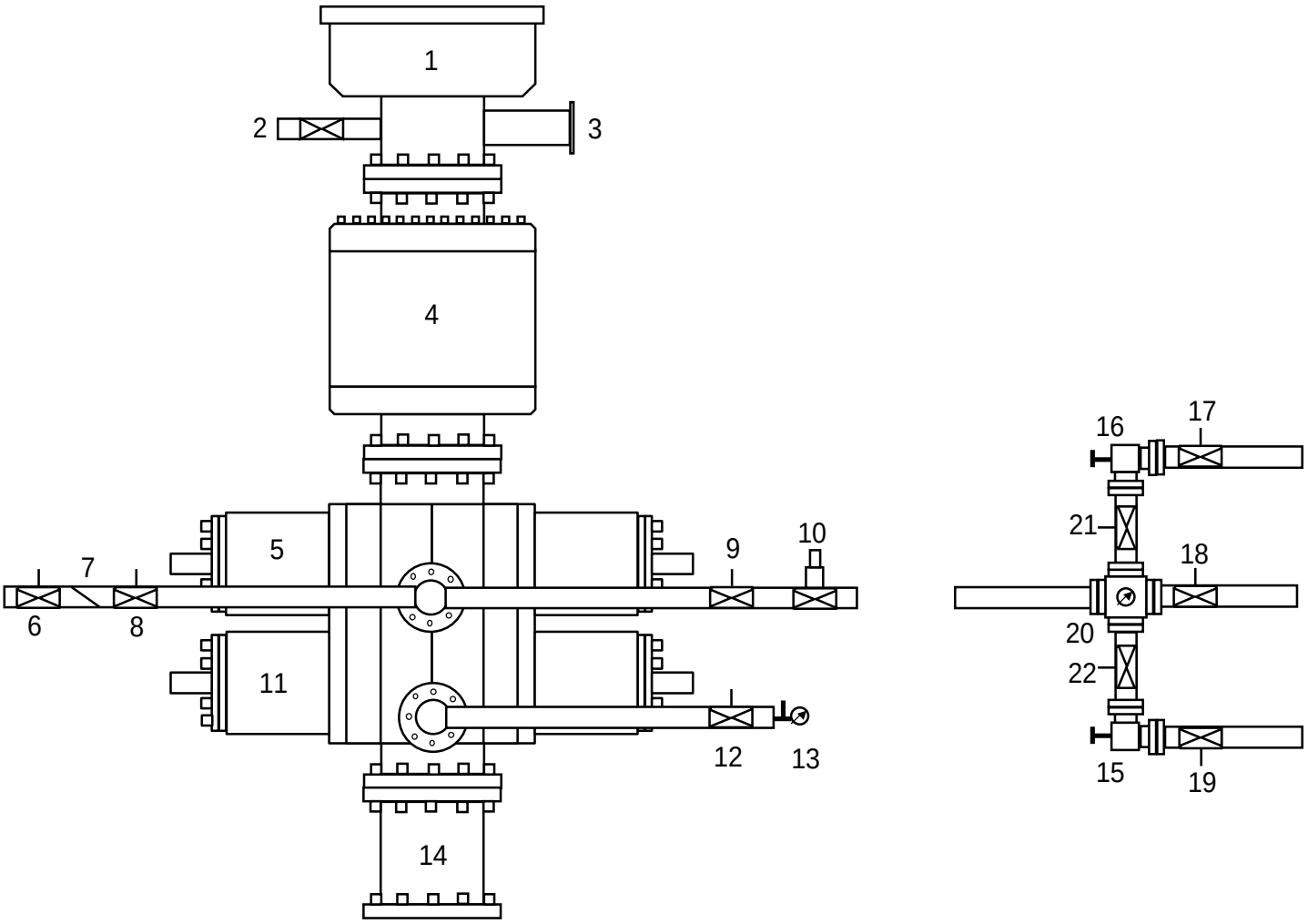
- The 7" intermediate casing will be cemented to surface to protect water bearing zones. If cement is not circulated to surface on the intermediate cement job, a cement bod log will be run to verify top of cement.

11. Directional Drilling Plan

- The well is planned as a directional wellbore. Surveys will be monitored to ensure adherence to the planned wellpath.
- The directional plan is attached in the APD application.
- The directional plan is built from geologic targets from offset wells and lease boundaries. The production hole section will be landed and drilled horizontally within the target formation utilizing LWD tools to steer the wellbore. On-site adjustments to the directional plan will be made and formation and wellbore dictate.

Appendix A

11” 3M BOP & 3M Choke Manifold Configuration



1	Rotating Head	12	Manual Isolation Valve
2	Fill-Up Line	13	Needle Valve & Pressure Gauge
3	Flow Line	14	Spacer Spool (if needed)
4	3M Annular Preventer	15	Manual Choke
5	3M Pipe Rams	16	Hydraulicly Operated Choke
6	Manual Isolation Valve	17	Manual Isolation Valve
7	Check Valve	18	Manual Isolation Valve
8	Manual Isolation Valve	19	Manual Isolation Valve
9	Manual Isolation Valve	20	Valve Block & Pressure Gauge
10	High Closing Ratio Valve	21	Manual Isolation Valve
11	3M Blind Rams	22	Manual Isolation Valve

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: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 580592
	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.

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State of New Mexico
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1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 580592

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 580592
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
mray	Cement is required to circulate on both surface and intermediate1 strings of casing.	4/30/2026
mray	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	4/30/2026
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	7/15/2026
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	7/15/2026
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.	7/15/2026
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.	7/15/2026
ward.rikala	If the method of isolation was not by circulation, a CBL must be performed; if strata isolation is not achieved, then remediation will be required before further operations.	7/15/2026
ward.rikala	All conducted logs must be submitted to OCD.	7/15/2026