AFMSS

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

Application for Permit to Drill

APD Package Report

Date Printed:

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

APD Package Report Contents

- Form 3160-3

- Operator Certification Report

- Application Report
- Application Attachments
  -- Well Plat: 1 file(s)

- Drilling Plan Report
- Drilling Plan Attachments
  -- Blowout Prevention Choke Diagram Attachment: 2 file(s)
  -- Blowout Prevention BOP Diagram Attachment: 3 file(s)
  -- Casing Design Assumptions and Worksheet(s): 5 file(s)
  -- Hydrogen sulfide drilling operations plan: 1 file(s)
  -- Proposed horizontal/directional/multi-lateral plan submission: 2 file(s)
  -- Other Facets: 4 file(s)
  -- Other Variances: 7 file(s)

- SUPO Report
- SUPO Attachments
  -- Existing Road Map: 1 file(s)
  -- New Road Map: 2 file(s)
  -- Attach Well map: 1 file(s)
  -- Production Facilities map: 31 file(s)
  -- Water source and transportation map: 1 file(s)
  -- Construction Materials source location attachment: 1 file(s)
  -- Well Site Layout Diagram: 4 file(s)
  -- Recontouring attachment: 1 file(s)
  -- Other SUPO Attachment: 2 file(s)

- PWD Report
- PWD Attachments
  -- None

- Bond Report
- Bond Attachments
  -- None

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.
30-025-56133

3a. Address

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

10. Field and Pool, or Exploratory
RED HILLS;BONE SPRING, NORTH

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: 06/17/2025

INSTRUCTIONS

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

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

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

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

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

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

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

NOTICES

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

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

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

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

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

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

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

Additional Operator Remarks

Location of Well

0. SHL: TR O / 1082 FSL / 2136 FEL / TWSP: 24S / RANGE: 34E / SECTION: 23 / LAT: 32.19875 / LONG: -103.43911 (TVD: 0 feet, MD: 0 feet)

PPP: TR O / 100 FSL / 2310 FEL / TWSP: 24S / RANGE: 34E / SECTION: 23 / LAT: 32.196053 / LONG: -103.439672 (TVD: 11135 feet, MD: 11232 feet)

BHL: TR B / 100 FNL / 2310 FEL / TWSP: 24S / RANGE: 34E / SECTION: 23 / LAT: 32.21 / LONG: -103.439672 (TVD: 11400 feet, MD: 16408 feet)

BLM Point of Contact

Name: TANJA BACA

Title: Supervisory Land Law Examiner

Phone: (575) 234-5940

Email: TABACA@BLM.GOV

PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL

Well Name	Surface Hole Legal Location*				Bottom Hole Legal Location*			
	FNL/FSL		FEL/FWL		FNL/FSL		FEL/FWL	
Well Pad A – Center of Pad: 1,052' FSL and 2,099' FEL								
Grackle 23 East Fed Com #101H	1,141'	S	2,045'	E	100	N	2,310'	E
Grackle 23 East Fed Com #201H	1,141'	S	2,030'	E	100	N	2,310'	E
Grackle 23 East Fed Com #301H	1,022'	S	2,241'	E	100	N	2,310'	E
Grackle 23 East Fed Com #401H	1,082'	S	2,151'	E	100	N	2,310'	E
Grackle 23 East Fed Com #501H	1,082'	S	2,136'	E	100	N	2,310'	E
Grackle 23 East Fed Com #591H	1,082'	S	2,121'	E	100	N	2,310'	E
Grackle 23 East Fed Com #701H	1,022'	S	2,256'	E	100	N	2,310'	E
Grackle 23 East Fed Com #731H	1,081'	S	1,941'	E	100	N	2,310'	E
Well Pad B – Center of Pad: 372' FSL and 2,104' FEL								
Grackle 23 East Fed Com #102H	461'	S	2,051'	E	100	N	1,311'	E
Grackle 23 East Fed Com #202H	461'	S	2,036'	E	100	N	1,311'	E
Grackle 23 East Fed Com #302H	342'	S	2,247'	E	100	N	1,650'	E
Grackle 23 East Fed Com #303H	342'	S	2,217'	E	100	N	1,311'	E
Grackle 23 East Fed Com #402H	402'	S	2,157'	E	100	N	1,311'	E
Grackle 23 East Fed Com #502H	402'	S	2,142'	E	100	N	1,311'	E
Grackle 23 East Fed Com #592H	402'	S	2,127'	E	100	N	1,311'	E
Grackle 23 East Fed Com #702H	342'	S	2,262'	E	100	N	1,650'	E
Grackle 23 East Fed Com #703H	342'	S	2,232'	E	100	N	1,311'	E
Grackle 23 East Fed Com #732H	386'	S	1,947'	E	100	N	1,650'	E
Grackle 23 East Fed Com #733H	401'	S	1,947'	E	100	N	1,311'	E
Well Pad C – Center of Pad: 1,695' FSL and 780' FEL								
Grackle 23 East Fed Com #103H	1,785'	S	727'	E	100	N	330'	E
Grackle 23 East Fed Com #203H	1,785'	S	712'	E	100	N	330'	E
Grackle 23 East Fed Com #304H	1,666'	S	923'	E	100	N	990'	E
Grackle 23 East Fed Com #305H	1,666'	S	893'	E	100	N	330'	E
Grackle 23 East Fed Com #403H	1,726'	S	832'	E	100	N	330'	E
Grackle 23 East Fed Com #503H	1,725'	S	817'	E	100	N	330'	E
Grackle 23 East Fed Com #593H	1,725'	S	802'	E	100	N	330'	E
Grackle 23 East Fed Com #704H	1,666'	S	938'	E	100	N	990'	E
Grackle 23 East Fed Com #705H	1,666'	S	908'	E	100	N	330'	E
Grackle 23 East Fed Com #734H	1,710'	S	622'	E	100	N	990'	E
Grackle 23 East Fed Com #735H	1,725'	S	622'	E	100	N	330'	E

*FNL = from north line; FSL = from south line; FWL = from west line; FEL = from east line

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

☐**General Provisions**
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☒**Special Requirements**
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- Special Status Plant Species

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- Well Pads
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- Pipelines
- Electric Lines

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I. GENERAL PROVISIONS

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

II. PERMIT EXPIRATION

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

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

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

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See Stipulation 6 for more information.

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

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

Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or

any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

IV. NOXIOUS WEEDS

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

V. SPECIAL REQUIREMENT(S)

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

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

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

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

ELECTRIC LINE(S):
Any water erosion that may occur due to the construction of overhead electric line and during the life of the power line will be quickly corrected and proper measures will be taken to prevent future erosion. A power pole should not be placed in drainages, playas, wetlands, riparian areas, or floodplains and must span across the features at a distance away that would not promote further erosion.

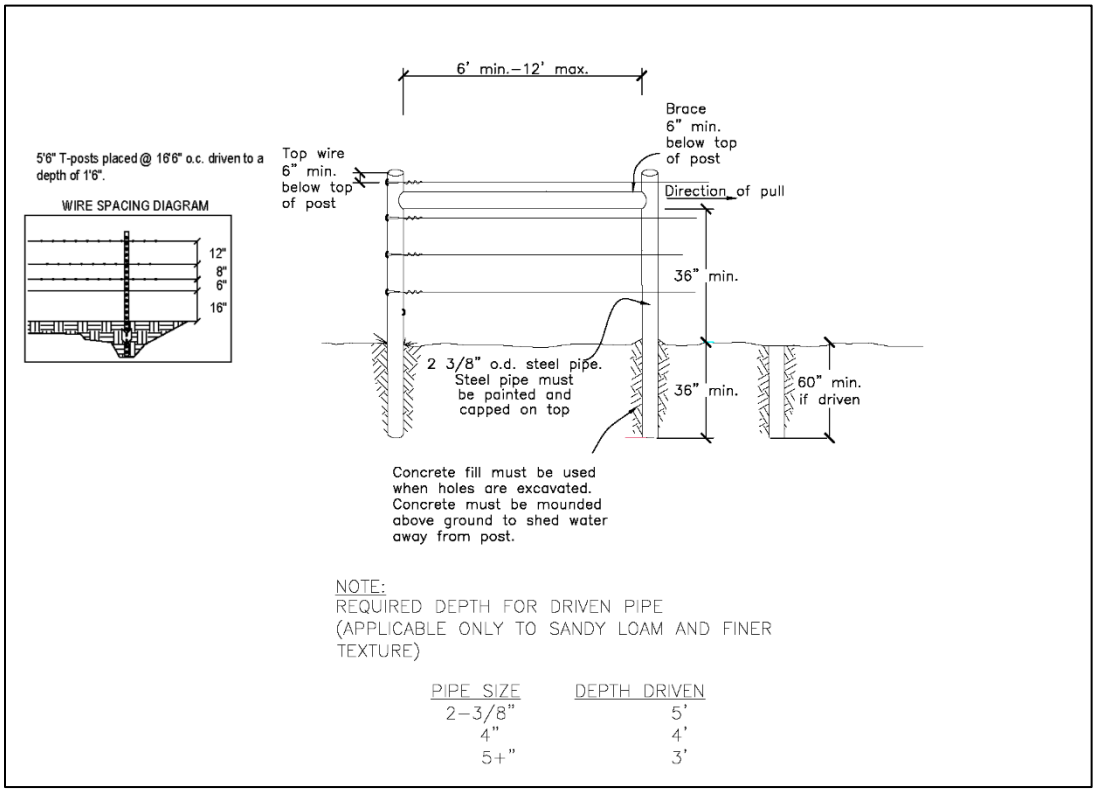
TEMPORARY USE FRESH WATER FRAC LINE(S):

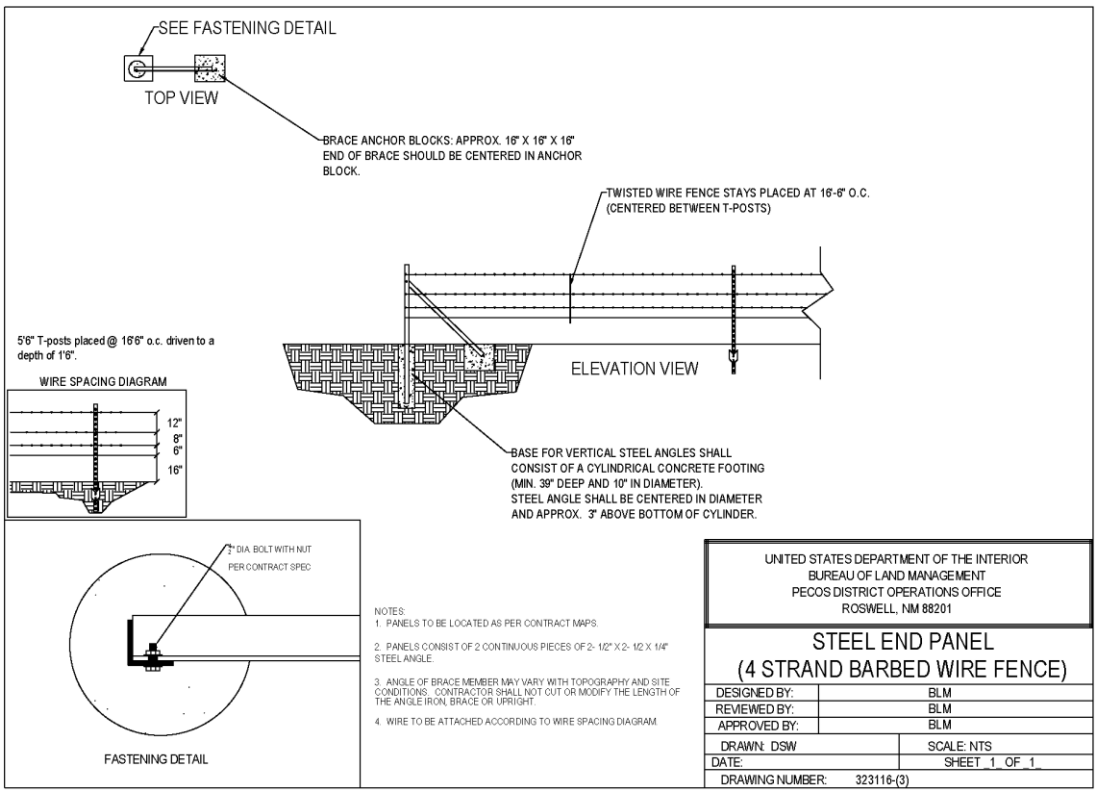
Once the temporary use exceeds the timeline of 180 days and/or with a 90 day extension status; further analysis will be required if the applicant pursues to turn the temporary ROW into a permanent ROW.

Range:

Cattleguards
Where a permanent cattleguard is approved, an appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s). Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

Fence Requirement
Where entry granted across a fence line, the fence must be H-braced or angle iron braced and tied off on both sides of the passageway prior to cutting. Once the work is completed, the fence will be restored to its prior condition, or better. The operator shall consult the private surface landowner or the grazing allotment holder prior to cutting any fence(s).





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

Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken:

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

Timing Limitation Exceptions:

The Carlsbad Field Office will publish an annual map of where the LPC timing and noise stipulations and conditions of approval (Limitations) will apply for the identified year (between March 1 and June 15) based on the latest survey information. The LPC Timing Area map will identify areas which are Habitat Areas (HA), Isolated Population Area (IPA), and Primary Population Area (PPA). The LPC Timing Area map will also have an area in red crosshatch. The red crosshatch area is the only area where an operator is required to submit a request for

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exception to the LPC Limitations. If an operator is operating outside the red crosshatch area, the LPC Limitations do not apply for that year and an exception to LPC Limitations is not required.

Ground-level Abandoned Well Marker to avoid raptor perching:

Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

VRM IV:

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

VI. CONSTRUCTION

A. NOTIFICATION

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

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

B. TOPSOIL

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

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

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

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

D. FEDERAL MINERAL MATERIALS PIT

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

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

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

F. EXCLOSURE FENCING (CELLARS & PITS)

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

G. ON LEASE ACCESS ROADS

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

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

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

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

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

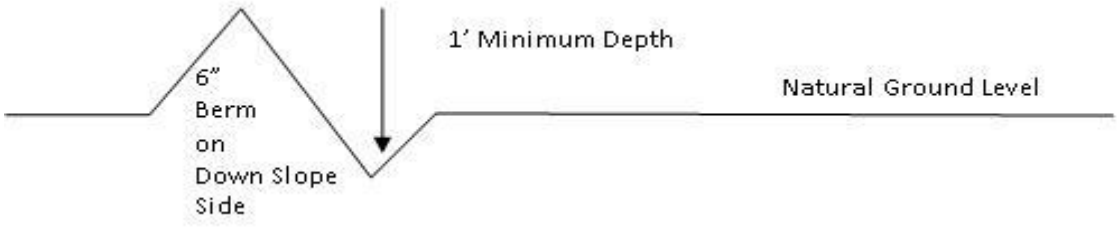
Ditching
Ditching shall be required on both sides of the road.

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

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

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

Cross Section of a Typical Lead-off Ditch



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

Formula for Spacing Interval of Lead-off Ditches

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

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

Public Access

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

Approval Date: 06/17/2025

Construction Steps

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

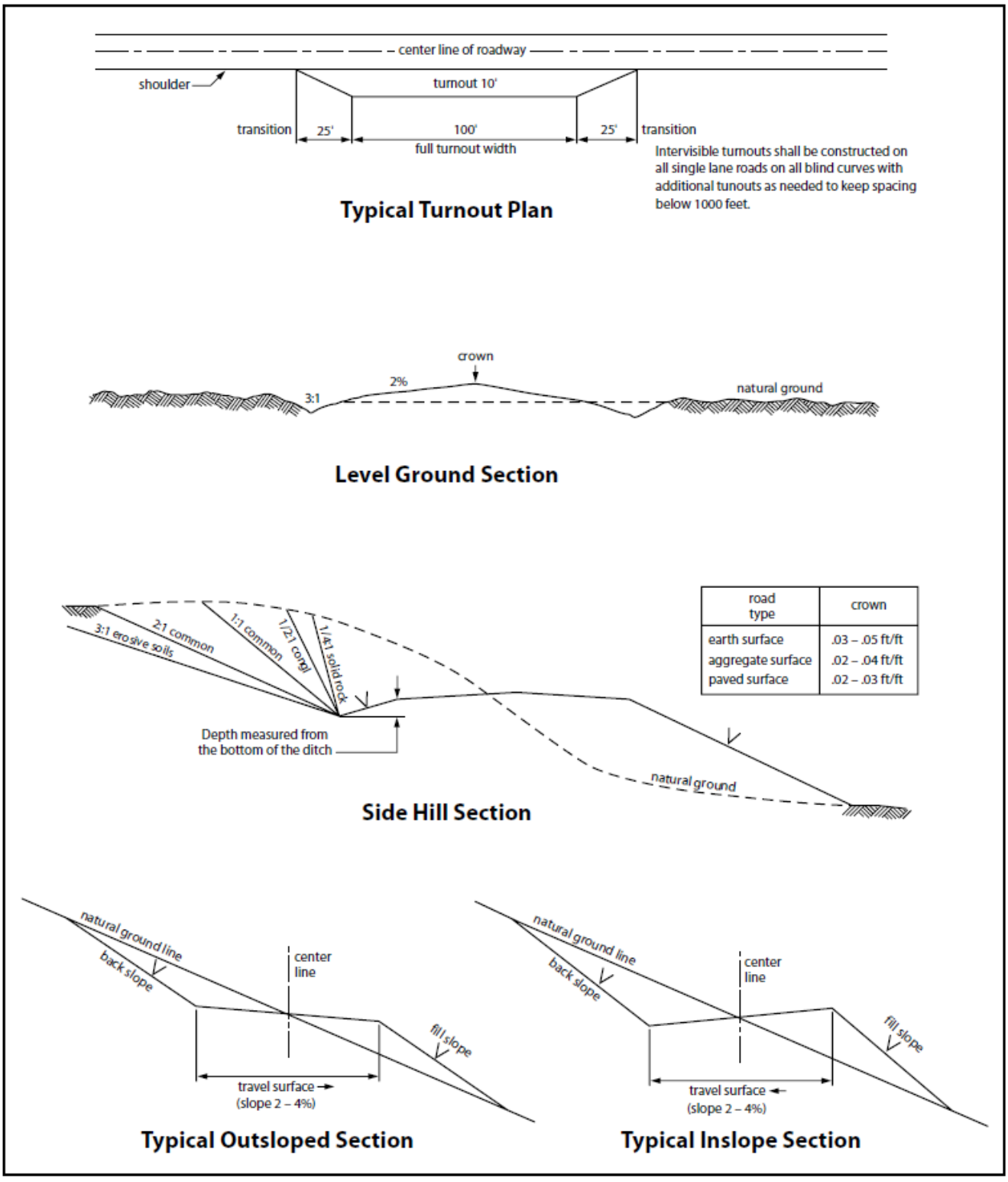


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

Approval Date: 06/17/2025

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

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

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

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

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

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

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

B. PIPELINES

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

CONDITIONS OF APPROVAL FOR TEMPORARY FRESHWATER PIPELINES

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

- Surface pipelines 6.5 inch to 16 inch OD may be in place for no more than 180 days not including installation. In accordance with your request, EOG will notify the BLM with a start date of construction 3 days prior to the start of construction.

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

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

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

- Width of authorized use is 15-feet.

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

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

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

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

• Placement of pumps or other high-maintenance equipment shall be installed along maintained lease roads.
• Gas or diesel pumps, generators, or compressors shall be placed on visquen matting [or 20 mil plastic] and in a containment structure capable of containing all potentially released fuels. Containments must be protected against wildlife deaths in accordance with oilfield best management practices.

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

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

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

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

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

BURIED PIPELINE STIPULATIONS

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

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

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

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

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

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

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

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

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

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

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

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

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

9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the

owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.

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

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

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

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

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

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

16. Any cultural resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

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

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

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

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

18. Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

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

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

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

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

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

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

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

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

3. Holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. § 9601, *et seq*. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, *et seq*.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way Holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way Holder on the Right-of-Way. This provision applies without regard to whether a release is caused by Holder, its agent, or unrelated third parties.

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

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

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

c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars

($1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

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

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

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

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

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

9. The pipeline shall be buried with a minimum of 6 inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.

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

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

12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.

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

pipeline.

14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.

15. Any cultural resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

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

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

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

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

17. Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

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

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

C. ELECTRIC LINES

- Smaller powerlines will be routed around sinkholes and other karst features to avoid or lessen the possibility of encountering near surface voids and to minimize changes to runoff or possible leaks and spills from entering karst systems. Larger powerlines will adjust their pole spacing to avoid cave and karst features.
- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, cave passages, or voids are penetrated during construction.
- No further construction will be done until clearance has been issued by the Authorized Officer.
- Special restoration stipulations or realignment may be required.

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

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

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

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

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

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.

5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison

Electric Institute, APLIC, and the California Energy Commission 2006 . The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

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

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

7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.

8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.

9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.

10. Any cultural resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

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

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See Stipulation 11 for more information.

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

to the first paragraph stipulations.

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

12. Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

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

VIII. INTERIM RECLAMATION

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

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

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

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

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

IX. FINAL ABANDONMENT & RECLAMATION

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

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

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

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

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

Seed Mixture 2, for Sandy Sites

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

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

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

Species	lb/acre
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

*Pounds of pure live seed:

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

Approval Date: 06/17/2025

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	EOG RESOURCES INCORPORATED
WELL NAME & NO.:	GRACKLE 23 EAST FED COM 501H
SURFACE HOLE FOOTAGE:	1082'/S & 2136'/E
BOTTOM HOLE FOOTAGE	100'/N & 2310'/E
LOCATION:	Section 23, T.24 S., R.34 E., NMP
COUNTY:	Lea County, New Mexico

COA

H2S	(•) Yes	( ) No	
Potash	(•) None	( ) Secretary	( ) R-111-P
Cave/Karst Potential	(•) Low	( ) Medium	( ) High
Cave/Karst Potential	( ) Critical		
Variance	( ) None	(•) Flex Hose	( ) Other
Wellhead	( ) Conventional	(•) Multibowl	( ) Both
Wellhead Variance	( ) Diverter		
Other	[ ] 4 String	[ ] Capitan Reef	[ ] WIPP
Other	[ ] Fluid Filled	[ ] Pilot Hole	[ ] Open Annulus
Cementing	[ ] Contingency Cement Squeeze	[ ] EchoMeter	[ ] Primary Cement Squeeze
Special Requirements	[ ] Water Disposal	[x] COM	[ ] Unit
Special Requirements	[ ] Batch Sundry		
Special Requirements Variance	[ ] Break Testing	[ ] Offline Cementing	[ ] Casing Clearance

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet 43 CFR part 3170 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

Primary Casing Design:

1. The **13-3/8** inch surface casing shall be set at approximately **1120 feet** (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. The surface hole shall be **16** inch in diameter.

Approval Date: 06/17/2025

a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:
   - Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the tail cement slurry due to cave/karst or potash.**

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
   - Cement should tie-back at least **200 feet** into previous casing string due to operator not meeting casing clearance requirement per 43 CFR 3170. Operator shall provide method of verification.

C. PRESSURE CONTROL

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

2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **13-3/8** inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M)** psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**

   a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
   b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
   c. Manufacturer representative shall install the test plug for the initial BOP test.

d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
e. Whenever any seal subject to test pressure is broken, all the tests in **43 CFR 3172.6(b)(9)** must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3170.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

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

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

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

☒ Lea County
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 689-5981

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

   a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
   b. When the operator proposes to set surface casing with Spudder Rig
      - Notify the BLM when moving in and removing the Spudder Rig.
      - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
      - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.

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

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

A. CASING

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

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

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

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

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

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

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

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

B. PRESSURE CONTROL

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

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

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

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

    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    c. Manufacturer representative shall install the test plug for the initial BOP test.
    d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3170 must be followed.
    e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

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

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

    b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

    c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the

casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

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

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

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

h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR part 3170 Subpart 3172**.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

JS 8/18/2023

AFMSS

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

Operator Certification Data Report

03/23/2026

Operator

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

NAME: **Signed on:** 09/24/2024

Title:

Street Address:

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

Phone:

Email address:

Field

Representative Name:

Street Address:

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

Phone:

Email address:

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

Application Data
03/23/2026

APD ID: 10400079840
Submission Date: 08/30/2021
Operator Name: EOG RESOURCES INCORPORATED
Well Name: GRACKLE 23 EAST FED COM
Well Number: 501H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes
Show Final Text

Section 1 - General

APD ID: 10400079840
Tie to previous NOS?
Submission Date: 08/30/2021
BLM Office: Carlsbad
User: CRAIG RICHARDSON
Title: Regulatory Specialist
Federal/Indian APD: FED
Is the first lease penetrated for production Federal or Indian? FED
Lease number: NMNM117125
Lease Acres:
Surface access agreement in place?
Allotted?
Reservation:
Agreement in place? NO
Federal or Indian agreement:
Agreement number:
Agreement name:
Keep application confidential? N
Permitting Agent? NO
APD Operator: EOG RESOURCES INCORPORATED
Operator letter of

Operator Info

Operator Organization Name: EOG RESOURCES INCORPORATED
Operator Address: 600 17TH STREET, SUITE 1000 N
Zip: 80202
Operator PO Box:
Operator City: DENVER
State: CO
Operator Phone: (303)262-9894
Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO
Master Development Plan name:
Well in Master SUPO? NO
Master SUPO name:
Well in Master Drilling Plan? NO
Master Drilling Plan name:
Well Name: GRACKLE 23 EAST FED COM
Well Number: 501H
Field/Pool or Exploratory? Field and Pool
Field Name: BOBCAT DRAW
Pool Name: RED HILLS; LOWER BONE SPRING,

Operator Name: EOG RESOURCES INCORPORATED

Well Name: GRACKLE 23 EAST FED COM **Well Number:** 501H

NORTH

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

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

Type of Well Pad: MULTIPLE WELL **Multiple Well Pad Name:** GRACKLE 23 EAST FED COM **Number:** 101H/201H/301H/401H/501H/591H/701H/731H

Well Class: HORIZONTAL **Number of Legs:** 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: **Distance to nearest well:** 15 FT **Distance to lease line:** 100 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: 0_Grackle_23_East_Fed_Com_C102_501H_20210830100400.pdf

Well work start Date: 02/01/2022 **Duration:** 25 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 **Vertical Datum:** NAVD88

Survey number: **Reference Datum:** KELLY BUSHING

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
SHL Leg #1	1082	FSL	2136	FEL	24S	34E	23	Tract O	32.19875	-103.43911	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 117125	3452			Y
KOP Leg #1	50	FSL	2310	FEL	24S	34E	23	Tract O	32.195915	-103.4396722	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 117125	-7471	11012	10923	Y

Operator Name: EOG RESOURCES INCORPORATED

Well Name: GRACKLE 23 EAST FED COM **Well Number:** 501H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
PPP Leg #1-1	100	FSL	2310	FEL	24S	34E	23	Tract O	32.196053	-103.439672	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 117125	-7683	11232	11135	Y
EXIT Leg #1	100	FNL	2310	FEL	24S	34E	23	Tract B	32.21	-103.439672	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 117125	-7948	16408	11400	Y
BHL Leg #1	100	FNL	2310	FEL	24S	34E	23	Tract B	32.21	-103.439672	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 117125	-7948	16408	11400	Y

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

Property Name and Well Number

GRACKLE 23 EAST FED COM 501H

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-025- 56133	96434	RED HILLS;BONE SPRING, NORTH ~~RED HILLS; LOWER BONE SPRINGS NORTH~~

Property Code	Property Name	Well Number
334692 ~~336553~~	**GRACKLE 23 EAST FED COM**	**501H**

OGRID No.	Operator Name	Ground Level Elevation
7377	EOG RESOURCES, INC.	3452'

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

Surface Location

UL or Lot No.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
O	23	24 S	34 E		1082 FSL	2136 FEL	N 32.198750°	W 103.439110°	LEA

Bottom Hole Location If Different From Surface

UL or Lot No.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
B	23	24 S	34 E		100 FNL	2310 FEL	N 32.210000°	W 103.439672°	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidated Code
320	DEFINING	PENDING API # GRACKLE 23 EAST FED COM #501H	Y	C

Order Numbers: FED COMM AGMT PENDING
Well Setbacks are under Common Ownership: ☐ Yes ☐ No

Kick Off Point (KOP)

UL or lot no.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
O	23	24 S	34 E		50 FSL	2310 FEL	N 32.195916°	W 103.439672°	LEA

First Take Point (FTP)

UL or lot no.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
O	23	24 S	34 E		100 FSL	2310 FEL	N 32.196053°	W 103.439672°	LEA

Last Take Point (LTP)

UL or lot no.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
B	23	24 S	34 E		100 FNL	2310 FEL	N 32.210000°	W 103.439672°	LEA

Unitized Area or Area of Uniform Interest	Spacing Unity Type	Ground Floor Elevation
Unitized Area	☒ Horizontal ☐ Vertical	3477'

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.

Kristina Agee 3/25/2026
Signature Date

Kristina Agee
Print Name

kristina_agee@eogresources.com
E-mail Address

SURVEYORS CERTIFICATION

MITCHELL L. McDONALD NEW MEXICO 29821 PROFESSIONAL SURVEYOR 03/24/2026

Signature and Seal of Professional Surveyor Date

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.

MITCHELL L. MCDONALD, N.M. P.L.S.

Certificate Number 29821 Date of Survey JANUARY 27, 2025

\\gis\Projects\EOG_-_BSM\039\PRODUCT\02_Package\C102_WLED_Grackle_23_East_Fed_Com_C102_1WLE_501H_R1.dwg RHOMESLEY 3/24/2026 9:32 AM

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.

C-102

Submit Electronically
Via OCD Permitting

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

Revised July 9, 2024

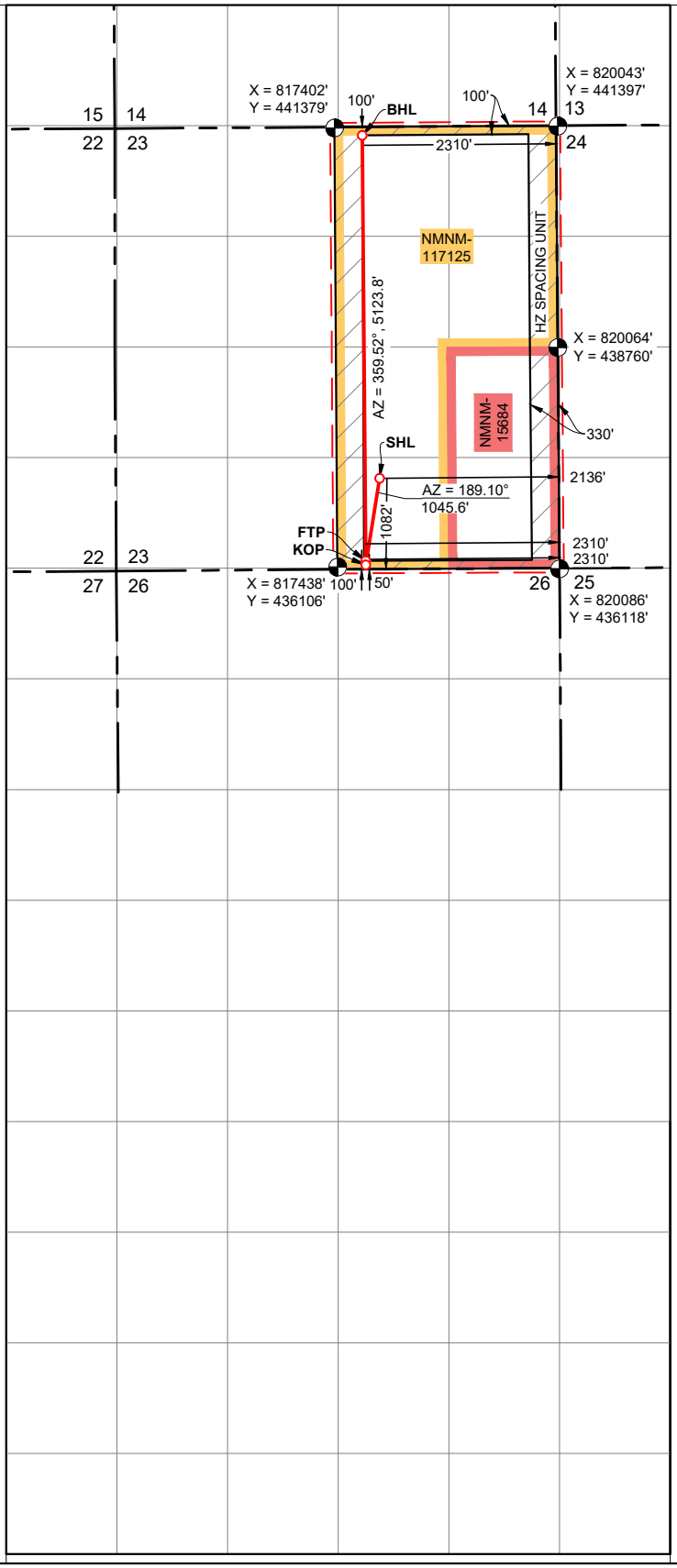
Submittal Type:
- [x] Initial Submittal
- [ ] Amended Report
- [ ] As Drilled

Property Name and Well Number

GRACKLE 23 EAST FED COM 501H

SURFACE LOCATION
NEW MEXICO EAST
NAD 1983
X=817941' Y=437190'
LAT=N32.198750°
LONG=W103.439110°
NAD 1927
X=776756' Y=437131'
LAT=N32.198625°
LONG=W103.438638°
1082' FSL 2136' FEL

KOP LOCATION
NEW MEXICO EAST
NAD 1983
X=817776' Y=436157'
LAT=N32.195916°
LONG=W103.439672°
NAD 1927
X=776591' Y=436099'
LAT=N32.195791°
LONG=W103.439200°
50' FSL 2310' FEL



FIRST TAKE POINT
NEW MEXICO EAST
NAD 1983
X=817776' Y=436207'
LAT=N32.196053°
LONG=W103.439672°
NAD 1927
X=776590' Y=436149'
LAT=N32.195928°
LONG=W103.439200°
100' FSL 2310' FEL

LOWER MOST PERF./ BOTTOM HOLE LOCATION
NEW MEXICO EAST
NAD 1983
X=817734' Y=441281'
LAT=N32.210000°
LONG=W103.439672°
NAD 1927
X=776549' Y=441222'
LAT=N32.209875°
LONG=W103.439199°
100' FNL 2310' FEL

Note: Bearings, coordinates, and distances (grid) shown hereon are based on the New Mexico State Plane Coordinate System, East Zone, NAD 83-2011 (EPOCH 2010) framework, as derived by OPUS Solution. The elevations shown hereon are based on NAVD 88.

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: ___EOG Resources, Inc._____ **OGRID:** _____7377_____ **Date:** 7/15/2025

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
GRACKLE 23 EAST FED COM 501H		O-23-24S-34E	1082' FSL & 2136' FEL	+/- 1000	+/- 3500	+/- 3000

IV. Central Delivery Point Name: ___Grackle 23 East Fed Com CTB_____ [See 19.15.27.9(D)(1) NMAC]

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

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
GRACKLE 23 EAST FED COM 501H		5/1/26	7/1/26	8/1/26	9/1/26	10/1/26

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:	Kristina Agee
Printed Name:	Kristina Agee
Title:	Regulatory Specialist
E-mail Address:	Kristina_agee@eogresources.com
Date:	3/23/2026
Phone:	(432) 686-6996

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

Natural Gas Management Plan
Items VI-VIII

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

- Separation equipment will be sized to provide adequate separation for anticipated rates.
- Adequate separation relates to retention time for Liquid – Liquid separation and velocity for Gas-Liquid separation.
- Collection systems are appropriately sized to handle facility production rates on all (3) phases.
- Ancillary equipment and metering is selected to be serviced without flow interruptions or the need to release gas from the well.

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

Drilling Operations

- All flare stacks will be properly sized. The flare stacks will be located at a minimum 100' from the nearest surface hole location on the pad.
- All natural gas produced during drilling operations will be flared, unless there is an equipment malfunction and/or to avoid risk of an immediate and substantial adverse impact on safety and the environment, at which point the gas will be vented.

Completions/Recompletions Operations

- New wells will not be flowed back until they are connected to a properly sized gathering system.
- The facility will be built/sized for maximum anticipated flowrates and pressures to minimize waste.
- For flowback operations, multiple stages of separation will be used as well as excess VRU and blowers to make sure waste is minimized off the storage tanks and facility.
- During initial flowback, the well stream will be routed to separation equipment.
- At an existing facility, when necessary, post separation natural gas will be flared until it meets pipeline specifications, at which point it will be turned into a collection system.
- At a new facility, post separation natural gas will be vented until storage tanks can safely function, at which point it will be flared until it meets pipeline spec.

Production Operations

- Weekly AVOs will be performed on all facilities.
- All flares will be equipped with auto-ignition systems and continuous pilot operations.
- After a well is stabilized from liquid unloading, the well will be turned back into the collection system.
- All plunger lift systems will be optimized to limit the amount of waste.
- All tanks will have automatic gauging equipment installed.
- Leaking thief hatches found during AVOs will be cleaned and properly re-sealed.

Performance Standards

- Production equipment will be designed to handle maximum anticipated rates and pressure.
- All flared gas will be combusted in a flare stack that is properly sized and designed to ensure proper combustion.
- Weekly AVOs will be performed on all wells and facilities that produce more than 60 Mcfd.

Measurement & Estimation

- All volume that is flared and vented that is not measured will be estimated.
- All measurement equipment for flared volumes will conform to API 14.10.
- No meter bypasses with be installed.

- When metering is not practical due to low pressure/low rate, the vented or flared volume will be estimated.

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

- During downhole well maintenance, EOG will use best management practices to vent as minimally as possible.
- Prior to the commencement of any maintenance, the tank or vessel will be isolated from the rest of the facilities.
- All valves upstream of the equipment will be closed and isolated.
- After equipment has been isolated, the equipment will be blown down to as low a pressure as possible into the collection system.
- If the equipment being maintained cannot be relieved into the collection system, it shall be released to a tank where the vapor can either be captured or combusted if possible.
- After downhole well maintenance, natural gas will be flared until it reaches pipeline specification.

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

Drilling Plan Data Report
03/23/2026

APD ID: 10400079840
Submission Date: 08/30/2021

Operator Name: EOG RESOURCES INCORPORATED

Well Name: GRACKLE 23 EAST FED COM
Well Number: 501H

Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
15854440	---	3452	0	0	ALLUVIUM	NONE	N
15854441	RUSTLER	2463	989	989	ANHYDRITE	NONE	N
15854442	TOP OF SALT	1893	1559	1559	SALT	NONE	N
15854443	BASE OF SALT	-1524	4976	4976	SALT	NONE	N
15854444	LAMAR	-1792	5244	5244	LIMESTONE	NONE	N
15854446	BELL CANYON	-1820	5272	5272	SANDSTONE	NATURAL GAS, OIL	N
15854447	CHERRY CANYON	-2757	6209	6209	SANDSTONE	NATURAL GAS, OIL	N
15854448	BRUSHY CANYON	-4250	7702	7702	SANDSTONE	NATURAL GAS, OIL	N
15854449	BONE SPRING LIME	-5626	9078	9078	LIMESTONE	NATURAL GAS, OIL	N
15854450	BONE SPRING 1ST	-7009	10461	10461	SANDSTONE	NATURAL GAS, OIL	N
15854451	BONE SPRING 2ND	-7532	10984	10984	SANDSTONE	NATURAL GAS, OIL	N
15854452	BONE SPRING 3RD	-8567	12019	12019	SANDSTONE	NATURAL GAS, OIL	N
15854453	WOLFCAMP	-8868	12320	12320	SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Operator Name: EOG RESOURCES INCORPORATED

Well Name: GRACKLE 23 EAST FED COM **Well Number:** 501H

Pressure Rating (PSI): 10M **Rating Depth:** 10647

Equipment: The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (5,000-psi WP). Both units will be hydraulically operated and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2. EOG will utilize wing unions on BOPE connections that can be isolated from wellbore pressure through means of a choke. All wing unions will be rated to a pressure that meets or exceeds the pressure rating of the BOPE system. A multi-bowl wellhead system will be utilized. After running the 13-3/8 surface casing, a 13-3/8 BOP/BOPE system with a minimum working pressure of 10,000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 10,000 psi pressure test. This pressure test will be repeated at least every 30 days, as per Onshore Order No. 2. The minimum working pressure of the BOP and related BOPE required for drilling below the surface casing shoe shall be 10,000 psi. The multi-bowl wellhead will be installed by vendors representative(s). A copy of the installation instructions for the Cactus Multi-Bowl WH system has been sent to the NM BLM office in Carlsbad, NM. The wellhead will be installed by a third party welder while being monitored by WH vendors representative. All BOP equipment will be tested utilizing a conventional test plug. Not a cup or Jpacker type. EOG Resources reserves the option to conduct BOPE testing during wait on cement periods provided a test plug is utilized. A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi. Casing strings will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1,500 psi, whichever is greater.

Requesting Variance? YES

Variance request: Variance is requested to waive the centralizer requirements for the 9-5/8" casing in the 12-1/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 12-1/4" hole interval to maximize cement bond and zonal isolation. Variance is also requested to waive any centralizer requirements for the 5-1/2" casing in the 8-3/4" and 8-1/2" hole sizes. An expansion additive will be utilized, in the cement slurry, for the entire length of the 8-3/4" and 8-1/2" hole intervals to maximize cement bond and zonal isolation. Variance is requested to use a co-flex line between the BOP and choke manifold (instead of using a 4” OD steel line). Variance is requested to use a 5,000 psi annular BOP with the 10,000 psi BOP stack.

Testing Procedure: Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 10,000/ 250 psig and the annular preventer to 5,000/ 250 psig. Pipe rams and blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. A hydraulically operated choke will be installed prior to drilling out of the intermediate casing shoe.

Choke Diagram Attachment:

10_M_Choke_Manifold_20210726125037.pdf

Gates_Co_Flex_Hose_Test_Chart_and_Certifications_20241022095351.pdf

BOP Diagram Attachment:

EOG_BLM_Variance_1c___10M_Annular_Variance___3_String_Large_surface_hole_20210726125049.pdf

10_M_BOP_Diagram_13.625_in_20210726125115.pdf

EOG_Cameron_3_String_13in_10M_MNDS_20210726125124.PDF

Operator Name: EOG RESOURCES INCORPORATED

Well Name: GRACKLE 23 EAST FED COM **Well Number:** 501H

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	16	13.375	NEW	API	N	0	1120	0	1120	3452	2332	1120	J-55	54.5	ST&C	1.125	1.25	BUOY	1.6	BUOY	1.6
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	4000	0	4000	3411	-548	4000	J-55	40	LT&C	1.125	1.25	BUOY	1.6	BUOY	1.6
3	INTERMEDIATE	12.25	9.625	NEW	API	N	4000	5080	4000	5080	-589	-1628	1080	HCK-55	40	LT&C	1.125	1.25	BUOY	1.6	BUOY	1.6
4	PRODUCTION	8.75	5.5	NEW	API	N	0	11762	0	11020	3411	-7568	11762	HCP-110	17	LT&C	1.125	1.25	BUOY	1.6	BUOY	1.6
5	PRODUCTION	8.5	5.5	NEW	API	N	11762	16408	11020	11400	-7568	-7948	4646	HCP-110	17	LT&C	1.125	1.25	BUOY	1.6	BUOY	1.6

Casing Attachments

Casing ID: 1 **String** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

See_previously_attached_Drill_Plan_20210830071609.pdf

Operator Name: EOG RESOURCES INCORPORATED

Well Name: GRACKLE 23 EAST FED COM **Well Number:** 501H

Casing Attachments

Casing ID: 2 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Grackle_23_East_Fed_Com_501H_Permit_Info_20210830101529.pdf

Casing ID: 3 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

See_previously_attached_Drill_Plan_20241022095212.pdf

Casing ID: 4 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

See_previously_attached_Drill_Plan_20210729093709.pdf

Operator Name: EOG RESOURCES INCORPORATED

Well Name: GRACKLE 23 EAST FED COM **Well Number:** 501H

Casing Attachments

Casing ID: 5 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

See_previously_attached_Drill_Plan_20210729093647.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Lead		0	0	0	0	0	0	0	N/A	N/A
SURFACE	Lead		0	920	340	1.73	13.5	588.2	25	Class C	Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello-Flake (TOC @ Surface)
SURFACE	Tail		920	1120	100	1.34	14.8	134	25		Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 920')
INTERMEDIATE	Lead		0	4000	740	2.22	12.7	1642.8	25	Class C	Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
INTERMEDIATE	Tail		4000	5080	320	1.32	14.8	422.4	25	Class C	Class C + 10% NaCL + 3% MagOx (TOC @ 4061')
PRODUCTION	Lead		0	11020	650	3.21	11	2086.5	25	Class H	Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 4580')

Operator Name: EOG RESOURCES INCORPORATED

Well Name: GRACKLE 23 EAST FED COM **Well Number:** 501H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		11762	16408	1330	1.2	14.4	1596	25	Class H	Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 11020')

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

Describe what will be on location to control well or mitigate other conditions: (A) A kelly cock will be kept in the drill string at all times. (B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times. (C) H2S monitoring and detection equipment will be utilized from surface casing point to TD.

Describe the mud monitoring system utilized: An electronic pit volume totalizer (PVT) will be utilized on the circulating system, to monitor pit volume, flow rate, pump pressure and stroke rate. Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1120	WATER-BASED MUD	8.6	8.8							
1120	5080	SALT SATURATED	8.6	8.8							
4880	16408	OIL-BASED MUD	8.8	9.5							

Operator Name: EOG RESOURCES INCORPORATED

Well Name: GRACKLE 23 EAST FED COM **Well Number:** 501H

Section 6 - Test, Logging, Coring

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

Open-hole logs are not planned for this well.

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

DIRECTIONAL SURVEY,

Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 8299 **Anticipated Surface Pressure:** 5790

Anticipated Bottom Hole Temperature(F): 184

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

Grackle_23_East_Fed_Com_501H_H2S_Plan_Summary_20210830103914.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Grackle_23_East_Fed_Com_501H_Planning_Report_20210830103231.pdf

Grackle_23_East_Fed_Com_501H_Wall_Plot_20210830103240.pdf

Other proposed operations facets description:

The drilling operation should be finished in approximately one month. If the well is productive, an additional 60-90 days will be required for completion and testing before a decision is made to install permanent facilities.

EOG Resources requests the option to contract a Surface Rig to drill, set surface casing, and Cement on the subject well. After WOC 8 hours or 500 psi compressive strength (whichever is greater), the Surface Rig will move off so the wellhead can be installed. A welder will cut the casing to the proper height and weld on the wellhead (both A and B sections). The weld will be tested to 1,000 psi. All valves will be closed and a wellhead cap will be installed (diagram attached). If the timing between rigs is such that EOG Resources would not be able to preset the surface, the Primary Rig will MIRU and drill the well in its entirety per the APD.

Other proposed operations facets attachment:

Operator Name: EOG RESOURCES INCORPORATED

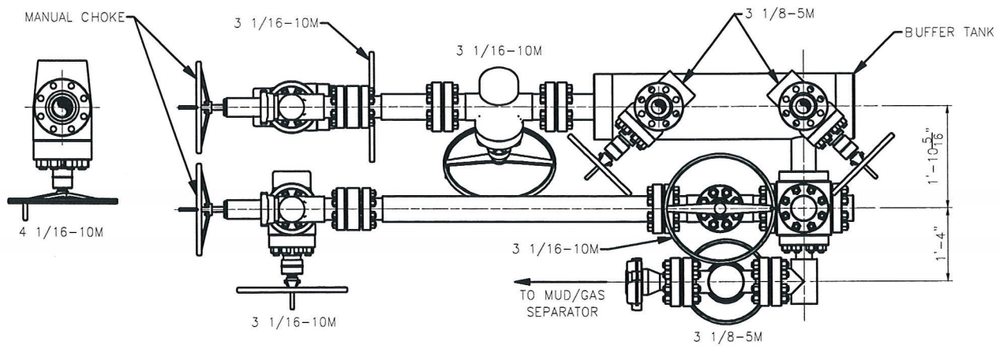
Well Name: GRACKLE 23 EAST FED COM **Well Number:** 501H

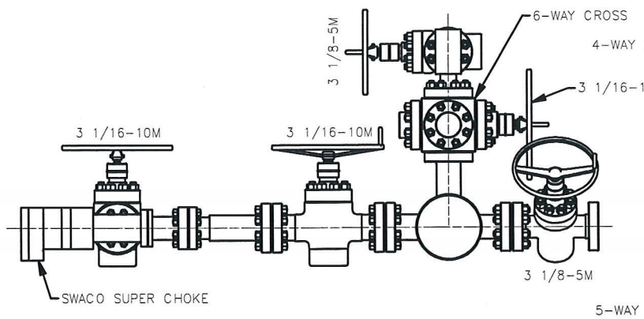
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Grackle_23_East_Fed_Com_501H_Rig_Layout_20210830103332.pdf
Grackle23East_PadA_CutFill_20210830103500.pdf

Other Variance request(s)?: Y

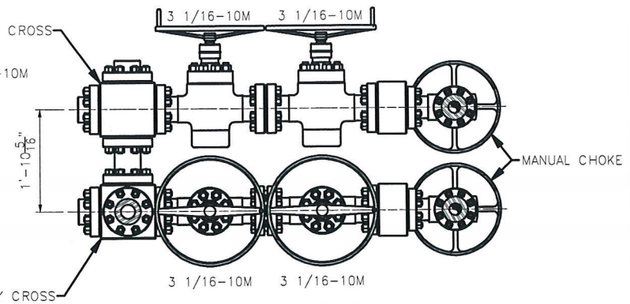
Other Variance attachment:

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10_M_BOP_Diagram_13.625_in_20210726133017.pdf
10_M_Choke_Manifold_20210726133032.pdf
EOG_BLM_Variance_1c___10M_Annular_Variance___3_String_Large_surface_hole_20210726133032.pdf
Gates_Co_Flex_Hose_Test_Chart_and_Certifications_20241022095319.pdf
Blanket_Casing_Design___Grackle_26_East_Fed_Com_4.1.2024_20240930095439_20250304074933.pdf
OO_II_Replacement_Language_1_20250304074939.pdf

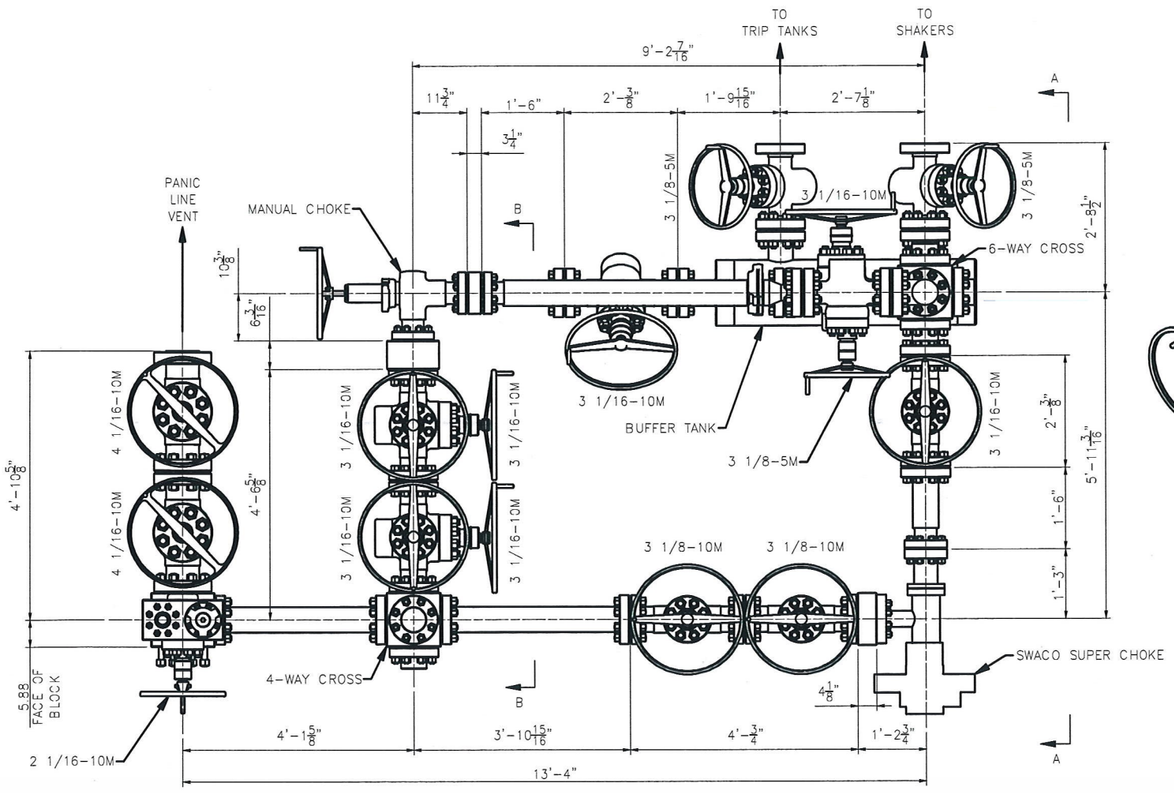




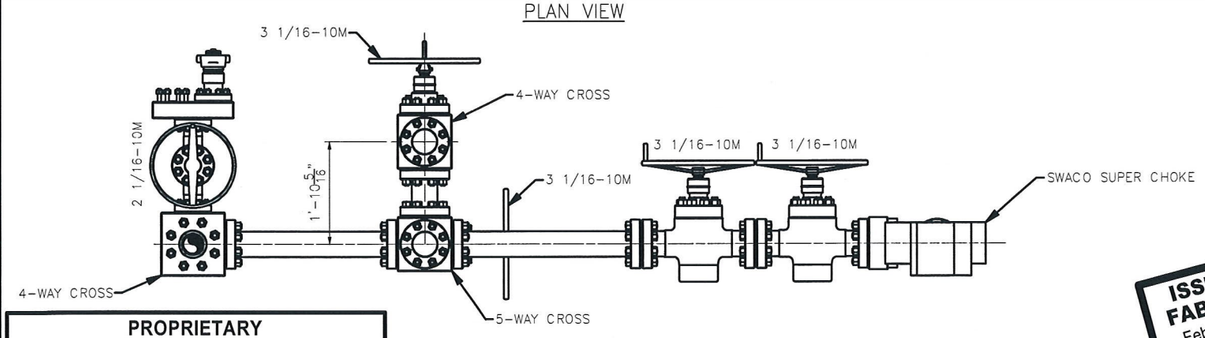
VIEW A-A

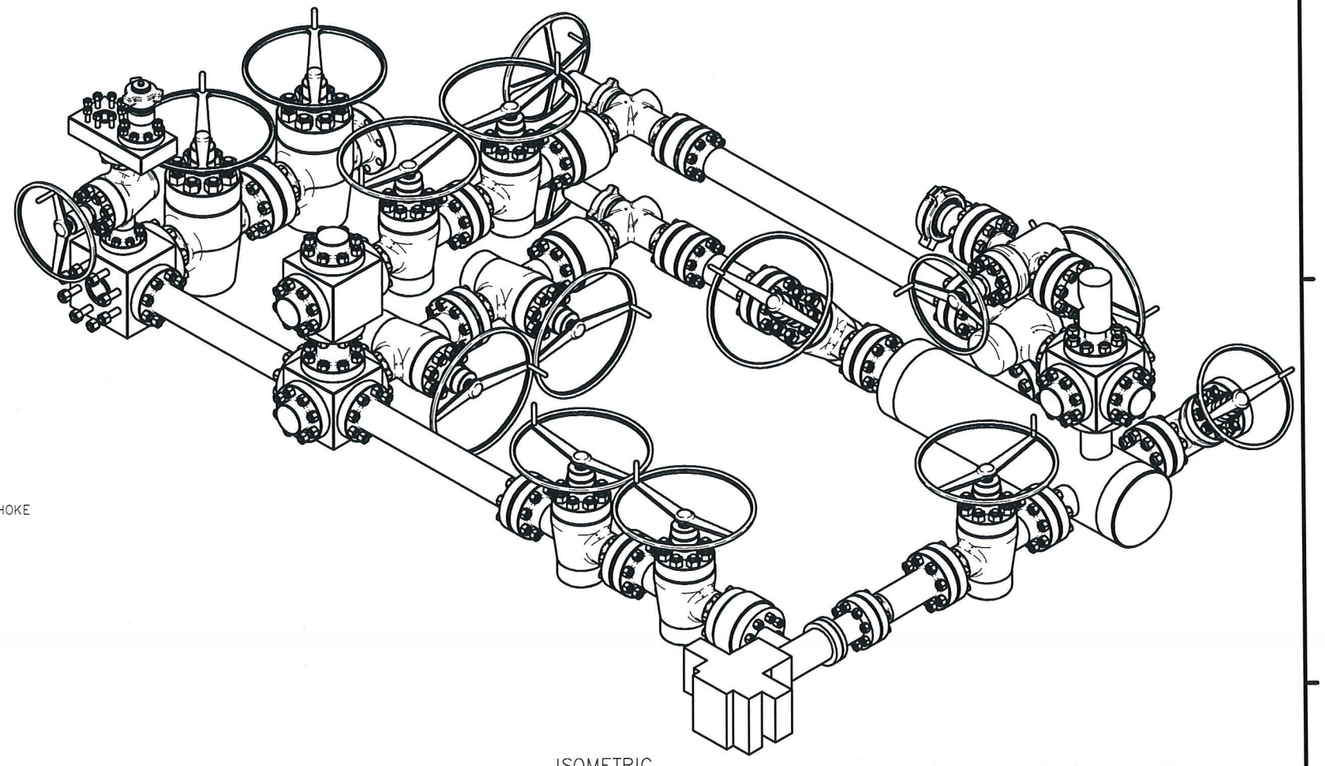


SECTION B-B



PLAN VIEW





ISOMETRIC

PROPRIETARY

THIS DRAWING AND THE IDEAS AND INFORMATION INCLUDED IN THIS DRAWING ARE PROPRIETARY AND ARE NOT TO BE REPRODUCED, DISTRIBUTED OR DISCLOSED IN ANY MANNER,WITHOUT THE PRIOR, WRITTEN CONSENT OF A DULY AUTHORIZED OFFICER OF HELMERICH & PAYNE INT'L DRILLING CO.

ISSUED FOR FABRICATION
February-10-2014
DRAFTSMAN MWL
ENGINEER

STANDARD TOLERANCES
(UNLESS NOTED)

1. FABRICATION DIMENSIONS:	A-0° TO 24°	±1/16"
	B-24° TO 120°	±1/8"
	C-OVER 120°	±1/4"
2. MACHINED DIMENSIONS:	A-ANGULAR	±.30'
	B-LINEAR (EXPRESSED AS FRACTION)	±.015
	LINEAR (EXPRESSED TO ONE DECIMAL)	±.1
	LINEAR (EXPRESSED TO TWO DECIMALS)	±.015
	LINEAR (EXPRESSED TO THREE DECIMALS)	±.005

REV	DATE	DESCRIPTION	BY
—			

HELMERICH & PAYNE INTERNATIONAL DRILLING CO.

TITLE: 3 CHOKE, 3 LEVEL, 10M CHOKE MANIFOLD G.A.

CUSTOMER: H&P

PROJECT:

DRAWN: MWL | DATE: 2/10/2014 | DWG. NO.: HP-D1254 | REV: —

SCALE: 3/4"=1'-0" | SHEET: 1 OF 1

Nabors 1210
Choke hose
10-28-22

BLACK GOLD®

GATES ENGINEERING & SERVICES NORTH AMERICA
7603 Prairie Oak Dr.
Houston, TX. 77086

PHONE: +1 (281) 602-4100
FAX: +1 (281) 602-4147
EMAIL: gesna.quality@gates.com
WEB: www.gates.com/oilandgas

CERTIFICATE OF CONFORMANCE

This is to verify that the items detailed below meet the requirements of the Customer's Purchase Order referenced herein, and are in Conformance with applicable specifications, and that Records of Required Tests are on file and subject to examination. The following items were inspected and hydrostatically tested at **Gates Engineering & Services North America** facilities in Houston, TX, USA.

CUSTOMER:	NABORS DRILLING TECHNOLOGIES USA DBA NABORS DRILLING USA
CUSTOMER P.O.#:	15485579 (NABORS PO#15485579 SN 73981ASSET 66-1486)
CUSTOMER P/N:	IMR RETEST SN 73981 ASSET #66-1486
PART DESCRIPTION:	RETEST OF CUSTOMER 3" X 45 FT 16C CHOKE & KILL HOSE ASSEMBLY C/W 4 1/16" 10K FLANGES
SALES ORDER #:	525500
QUANTITY:	1
SERIAL #:	73981 H3-101822-15

SIGNATURE: _____

TITLE: QUALITY ASSURANCE

DATE: 10/18/2022

H3-10667

10/18/2022 11:48:25 AM

TEST REPORT

CUSTOMER

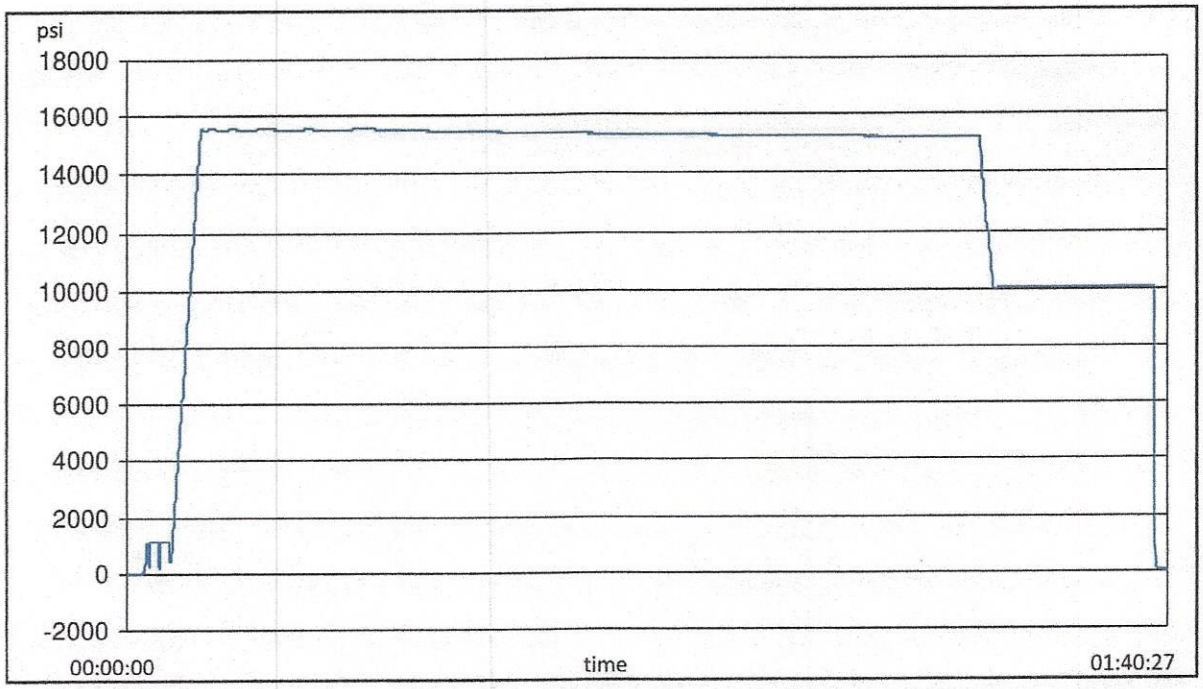
Company:	Nabors Industries Inc.
Production description:	
Sales order #:	525500
Customer reference:	FG0144 NABORS PO#15485579 SN 73981 ASSET 66-1486

TEST INFORMATION

Test procedure:	GTS-04-053	
Test pressure:	15000.00	psi
Test pressure hold:	3600.00	sec
Work pressure:	10000.00	psi
Work pressure hold:	900.00	sec
Length difference:	0.00	%
Length difference:	0.00	inch
Visual check:		
Pressure test result:	PASS	
Length measurement result:		
Test operator:	Martin	

TEST OBJECT

Serial number:	H3-101822-15
Lot number:	
Description:	
Hose ID:	3.0 CK03 16C 10K
Part number:	
Fitting 1:	3.0 x 4-1/16 10K
Part number:	
Description:	
Fitting 2:	3.0 x 4-1/16 10K
Part number:	
Description:	
Length:	45 feet



Filename: D:\Certificates\Report_101822-H3-101822-15.pdf

H3-10667

10/18/2022 11:48:25 AM

TEST REPORT

GAUGE TRACEABILITY

Description	Serial number	Calibration date	Calibration due date
S-25-A-W	110AMCL2	2022-01-10	2023-01-10
S-25-A-W	110APO2K	2022-01-10	2023-01-10

Comment

Certificate of Authority to use the Official API Monogram

License Number: 7K-0519 **ORIGINAL**

The American Petroleum Institute hereby grants to

GATES ENGINEERING AND SERVICES
7603 Prairie Oak Drive, Suite 190
Houston, TX
United States

the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1® and **API-7K** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: **7K-0519**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following: High Pressure Mud and Cement Hoses at FSL 0, at FSL 1, at FSL 2

QMS Exclusions: Servicing

Effective Date: DECEMBER 18, 2021
Expiration Date: DECEMBER 18, 2024

To verify the authenticity of this license, go to www.api.org/compositelist.

Vice President of Product Management

®
American Petroleum Institute

AMERICAN PETROLEUM INSTITUTE CORPORATE SEAL INCORPORATED 1919

2018-151 | Digital

Certificate of Authority to use the Official API Monogram

License Number: 16C-0485 **ORIGINAL**

The American Petroleum Institute hereby grants to

GATES ENGINEERING AND SERVICES
7603 Prairie Oak Drive, Suite 190
Houston, TX
United States

the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1® and **API-16C** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: **16C-0485**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following: Flexible Choke and Kill Lines atFSL 0, FSL 1, FSL 2, FSL 3

QMS Exclusions: Servicing

Effective Date: DECEMBER 18, 2021
Expiration Date: DECEMBER 18, 2024

To verify the authenticity of this license, go to www.api.org/compositelist.

Vice President of Product Management

®
American Petroleum Institute

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2018-151 | Digital

American Petroleum Institute

REGISTRATION NO. Q1-3650

Certificate of Registration

The American Petroleum Institute certifies that the quality management system of

GATES ENGINEERING AND SERVICES
7603 Prairie Oak Drive, Suite 190
Houston, TX
United States

has been assessed by the American Petroleum Institute and found to be in conformance with the following:

API Spec Q1, 9th Edition

The scope of this registration and the approved quality management system applies to the:

Assembly and Pressure Test of High Pressure Mud and Cement Hoses, Flexible Choke and Kill Lines, and General Rubber Hydraulic Hose Assemblies

API approves the organization's justification for excluding:

Servicing

API Spec Q1 Registered ®

Effective Date: **DECEMBER 18, 2021**
Expiration Date: **DECEMBER 18, 2024**
Registered Since: **DECEMBER 18, 2018**

Vice President of Product Management

This certificate is valid for the period specified herein. The registered organization must continually meet all requirements of API Spec Q1, *Specification for Quality Management System Requirements for Manufacturing Organizations for the Petroleum and Natural Gas Industry,* and the requirements of the Registration Agreement. Registration is maintained and regularly monitored through annual full system audits. This certificate has been issued from API offices located at 200 Massachusetts Avenue, NW Suite 1100, Washington, DC 20001-5571, U.S.A. It is the property of API, and must be returned upon request.
To verify the authenticity of this certificate, go to www.api.org/compositelist.

2021-164 | 10.21 | Digital

10,000 PSI BOP Annular
Variance Request (EOG Variance 1c)

EOG Resources request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOP).

1. Component and Preventer Compatibility Tables

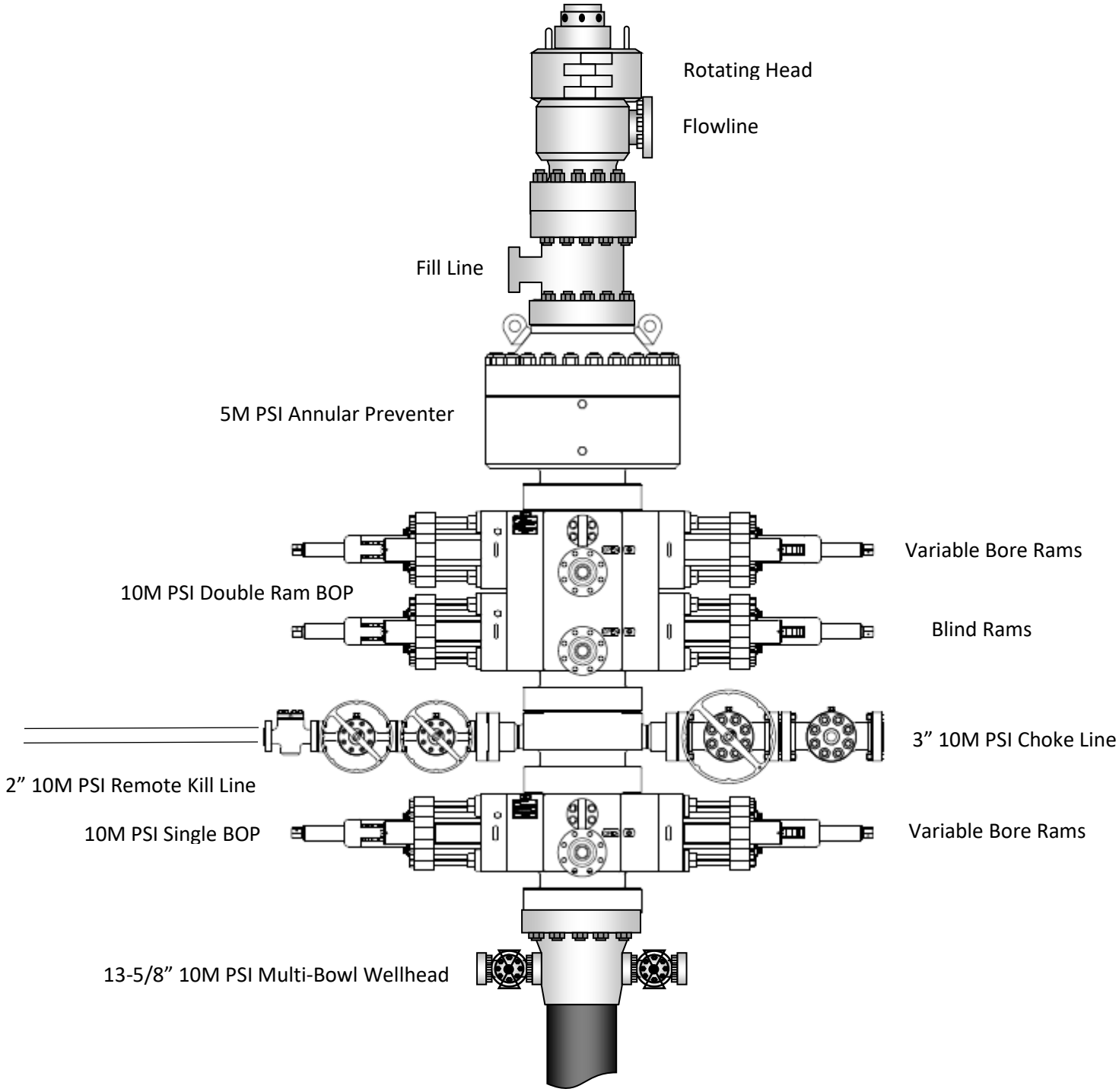
The tables below outlines the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

12-1/4" Intermediate Hole Section 10M psi requirement					
Component	**OD**	**Primary Preventer**	**RWP**	**Alternate Preventer(s)**	**RWP**
Drillpipe	5.000" or 4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
HWDP	5.000" or 4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
Jars	6.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
DCs and MWD tools	6.500" – 8.000"	Annular	5M	-	-
Mud Motor	8.000" – 9.625"	Annular	5M	-	-
1st Intermediate casing	9.625"	Annular	5M	-	-
Open-hole	-	Blind Rams	10M	-	-

8-3/4" Production Hole Section 10M psi requirement					
Component	**OD**	**Primary Preventer**	**RWP**	**Alternate Preventer(s)**	**RWP**
Drillpipe	5.000" or 4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
HWDP	5.000" or 4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
Jars	6.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
DCs and MWD tools	6.500" – 8.000"	Annular	5M	-	-
Mud Motor	6.750" – 8.000"	Annular	5M	-	-
2nd Intermediate casing	7.625"	Annular	5M	-	-
Open-hole	-	Blind Rams	10M	-	-

VBR = Variable Bore Ram

EOG Resources
13-5/8” 10M PSI BOP Stack



2. Well Control Procedures

Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. At least one well control drill will be performed weekly per crew to demonstrate compliance with the procedure and well control plan. The well control drill will be recorded in the daily drilling log. The type of drill will be determined by the ongoing operations, but reasonable attempts will be made to vary the type of drill conducted (pit, trip, open hole, choke, etc.). This well control plan will be available for review by rig personnel in the EOG Resources drilling supervisor's office on location, and on the rig floor. All BOP equipment will be tested as per Onshore O&G Order No. 2 with the exception of the 5000 psi annular which will be tested to 100% of its RWP.

General Procedure While Drilling

1. Sound alarm (alert crew)
2. Space out drill string
3. Shut down pumps (stop pumps and rotary)
4. Shut-in Well (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
    a. SIDPP and SICP
    b. Pit gain
    c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Tripping

1. Sound alarm (alert crew)
2. Stab full opening safety valve and close
3. Space out drill string
4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
    a. SIDPP and SICP
    b. Pit gain
    c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Running Production Casing

1. Sound alarm (alert crew)
2. Stab crossover and full opening safety valve and close
3. Space out string
4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
    a. SIDPP and SICP
    b. Pit gain
    c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure With No Pipe In Hole (Open Hole)

1. Sound alarm (alert crew)
2. Shut-in with blind rams. (HCR and choke will already be in the closed position.)
3. Confirm shut-in
4. Notify toolpusher/company representative
5. Read and record the following:
    a. SICP
    b. Pit gain
    c. Time
6. Regroup and identify forward plan

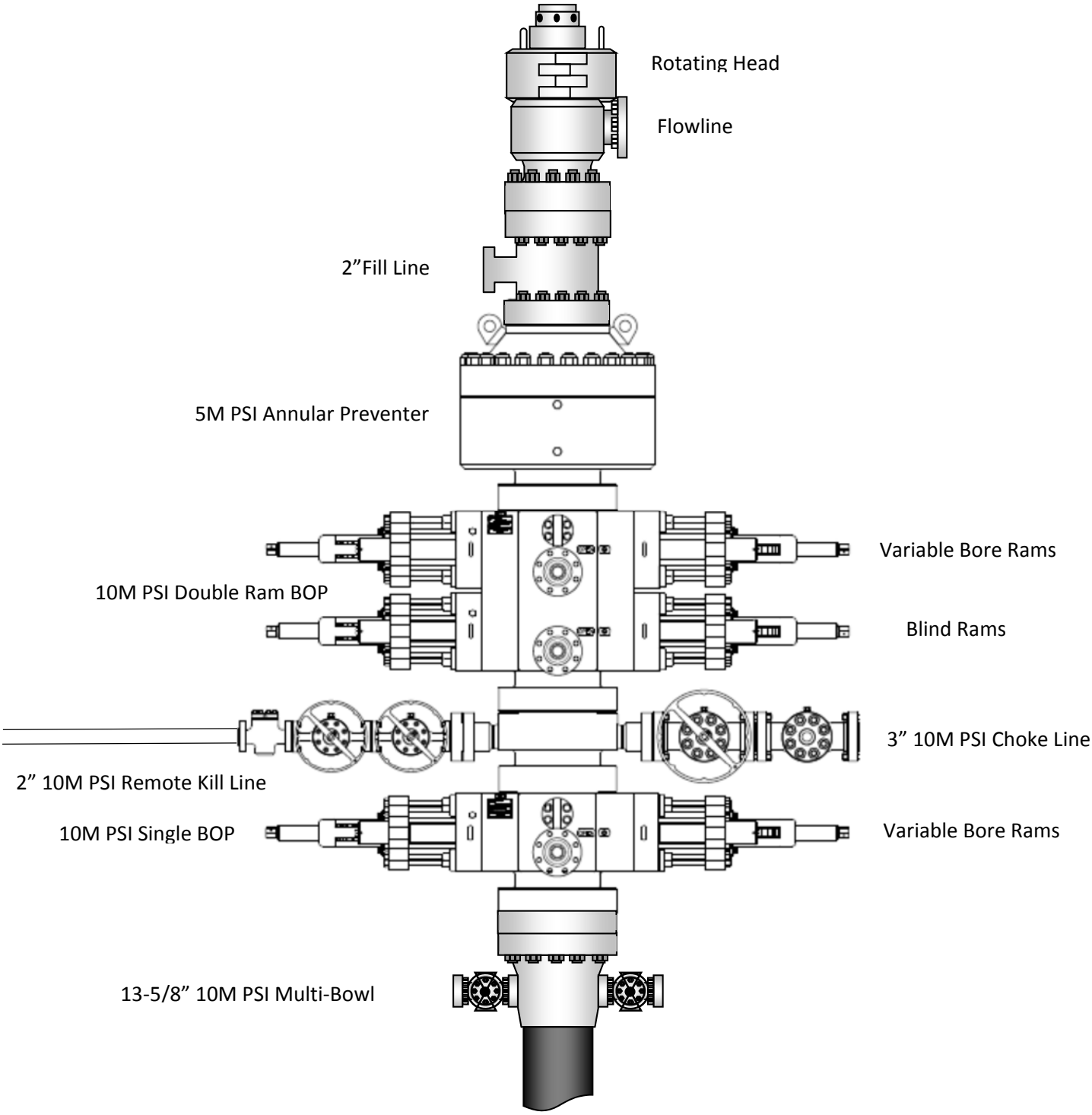
General Procedures While Pulling BHA thru Stack

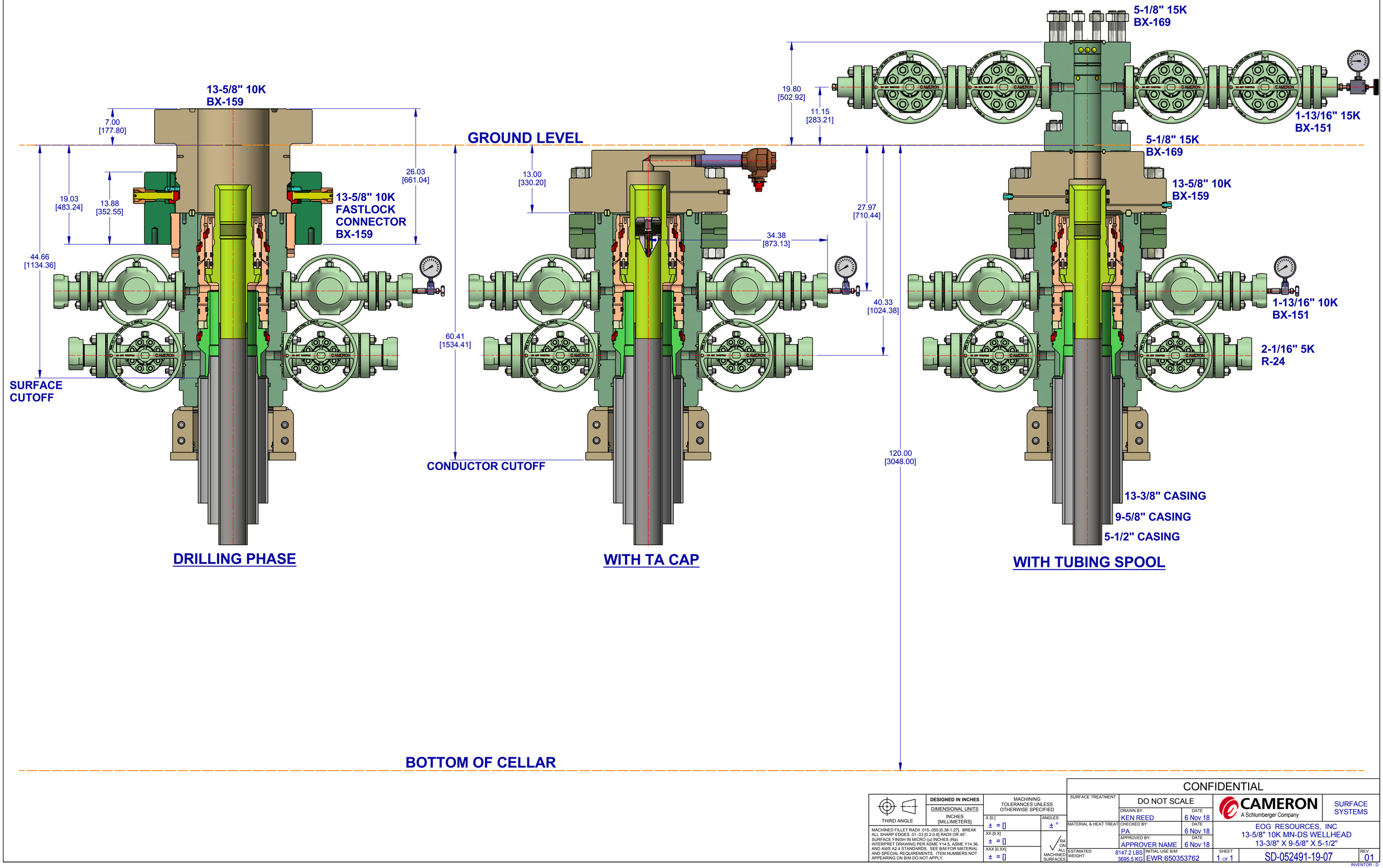
1. PRIOR to pulling last joint of drillpipe thru the stack.
    a. Perform flowcheck, if flowing:
    b. Sound alarm (alert crew)
    c. Stab full opening safety valve and close
    d. Space out drill string with tool joint just beneath the upper variable bore rams.
    e. Shut-in using upper variable bore rams. (HCR and choke will already be in the closed position.)
    f. Confirm shut-in
    g. Notify toolpusher/company representative
    h. Read and record the following:
        i. SIDPP and SICP
        ii. Pit gain
        iii. Time
    i. Regroup and identify forward plan

2. With BHA in the stack and compatible ram preventer and pipe combo immediately available.
    a. Sound alarm (alert crew)
    b. Stab crossover and full opening safety valve and close
    c. Space out drill string with upset just beneath the upper variable bore rams.
    d. Shut-in using upper variable bore rams. (HCR and choke will already be in the closed position.)
    e. Confirm shut-in
    f. Notify toolpusher/company representative
    g. Read and record the following:
        i. SIDPP and SICP
        ii. Pit gain
        iii. Time
    h. Regroup and identify forward plan

3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.
    a. Sound alarm (alert crew)
    b. If possible to pick up high enough, pull string clear of the stack and follow “Open Hole” scenario.
    c. If impossible to pick up high enough to pull the string clear of the stack:
    d. Stab crossover, make up one joint/stand of drillpipe, and full opening safety valve and close
    e. Space out drill string with tooljoint just beneath the upper variable bore ram.
    f. Shut-in using upper variable bore ram. (HCR and choke will already be in the closed position.)
    g. Confirm shut-in
    h. Notify toolpusher/company representative
    i. Read and record the following:
        i. SIDPP and SICP
        ii. Pit gain
        iii. Time
    j. Regroup and identify forward plan

Exhibit 1
EOG Resources
13-5/8” 10M PSI BOP Stack





CONFIDENTIAL

THIRD ANGLE	DESIGNED IN INCHES DIMENSIONAL UNITS INCHES [MILLIMETERS]	MACHINING TOLERANCES UNLESS OTHERWISE SPECIFIED X [0.] ± = [] .XX [0.X] ± = [] .XXX [0.XX] ± = [] ANGLES ± ° RA ON ALL MACHINED SURFACES	SURFACE TREATMENT	DO NOT SCALE	CAMERON A Schlumberger Company / SURFACE SYSTEMS
MACHINED FILLET RADII .015-.050 [0.38-1.27]. BREAK ALL SHARP EDGES .01-.03 [0.2-0.8] RADII OR 45°. SURFACE FINISH IN MICRO (µ) INCHES (Ra). INTERPRET DRAWING PER ASME Y14.5, ASME Y14.36, AND AWS A2.4 STANDARDS. SEE B/M FOR MATERIAL AND SPECIAL REQUIREMENTS. ITEM NUMBERS NOT APPEARING ON B/M DO NOT APPLY.			MATERIAL & HEAT TREAT	DRAWN BY: KEN REED — DATE: 6 Nov 18 CHECKED BY: PA — DATE: 6 Nov 18 APPROVED BY: APPROVER NAME — DATE: 6 Nov 18	EOG RESOURCES, INC 13-5/8" 10K MN-DS WELLHEAD 13-3/8" X 9-5/8" X 5-1/2"
			ESTIMATED WEIGHT:	8147.2 LBS 3695.5 KG	INITIAL USE B/M: EWR:650353762
				SHEET 1 OF 1	SD-052491-19-07 — REV. 01

INVENTOR - D

See previously attached Drill Plan

See previously attached Drill Plan

eog resources

Grackle 23 East Fed Com 501H

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	989'
Tamarisk Anhydrite	1,094'
Top of Salt	1,559'
Base of Salt	4,976'
Lamar	5,244'
Bell Canyon	5,272'
Cherry Canyon	6,209'
Brushy Canyon	7,702'
Bone Spring Lime	9,078'
Leonard Shale	9,429'
1st Bone Spring Sand	10,461'
2nd Bone Spring Shale	10,692'
2nd Bone Spring Sand	10,984'
3rd Bone Spring Carb	11,492'
3rd Bone Spring Sand	12,019'
Wolfcamp	12,320'
TD	11,400'

3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	0- 400’	Fresh Water
Cherry Canyon	5,938'	Oil
Brushy Canyon	7,484'	Oil
Leonard Shale	4,071'	Oil
1st Bone Spring Sand	7,030'	Oil
2nd Bone Spring Shale	7,242'	Oil
2nd Bone Spring Sand	7,809'	Oil

No other Formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 13-3/8" casing at 1,119' and circulating cement back to surface.

eog resources

Grackle 23 East Fed Com 501H

4. CASING PROGRAM - NEW

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DFmin Collapse	DFmin Burst	DFmin Tension
16"	0' - 1,120'	13.375"	54.5#	J-55	STC	1.125	1.25	1.6
12.25"	0' - 4,000'	9.625"	40#	J-55	LTC	1.125	1.25	1.6
12.25"	4,000' - 5,080'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.6
8.75"	0' - 11,762'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.6
8.5"	11,762' - 16,408'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.6

Variance is requested to waive the centralizer requirements for the 9-5/8" casing in the 12-1/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 12-1/4" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive any centralizer requirements for the 5-1/2" casing in the 8-3/4" and 8-1/2" hole sizes. An expansion additive will be utilized, in the cement slurry, for the entire length of the 8-3/4" and 8-1/2" hole intervals to maximize cement bond and zonal isolation.

Cementing Program:

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
1,120' 13.375"	340	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	100	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 920')
5,080' 9.625"	740	12.7	2.22	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	320	14.8	1.32	Tail: Class C + 10% NaCL + 3% MagOx (TOC @ 4061')
16,408' 5.5"	650	11.0	3.21	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 4580')
	1330	14.4	1.2	Tail: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 11020')

eog resources

Grackle 23 East Fed Com 501H

Additive	Purpose
Bentonite Gel	Lightweight/Lost circulation prevention
Calcium Chloride	Accelerator
Cello-flake	Lost circulation prevention
Sodium Metasilicate	Accelerator
MagOx	Expansive agent
Pre-Mag-M	Expansive agent
Sodium Chloride	Accelerator
FL-62	Fluid loss control
Halad-344	Fluid loss control
Halad-9	Fluid loss control
HR-601	Retarder
Microbond	Expansive Agent

Cement integrity tests will be performed immediately following plug bump.

Note: Cement volumes based on bit size plus at least 25% excess in the open hole plus 10% excess in the cased-hole overlap section.

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Variance is requested to use a co-flex line between the BOP and choke manifold (instead of using a 4" OD steel line).

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (5,000-psi WP). Both units will be hydraulically operated and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

EOG will utilize wing unions on BOPE connections that can be isolated from wellbore pressure through means of a choke. All wing unions will be rated to a pressure that meets or exceeds the pressure rating of the BOPE system.

Variance is requested to use a 5,000 psi annular BOP with the 10,000 psi BOP stack.

Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 10,000/ 250 psig and the annular preventer to 5,000/ 250 psig.

Pipe rams and blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

A hydraulically operated choke will be installed prior to drilling out of the intermediate casing shoe.

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Grackle 23 East Fed Com 501H

6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

During this procedure we plan to use a Closed-Loop System and haul contents to the required disposal.

The applicable depths and properties of the drilling fluid systems are as follows:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,120'	Fresh - Gel	8.6-8.8	28-34	N/c
1,120' – 5,080'	Brine	8.6-8.8	28-34	N/c
4,880' – 16,408' Lateral	Oil Base	8.8-9.5	58-68	N/c - 6

An electronic pit volume totalizer (PVT) will be utilized on the circulating system, to monitor pit volume, flow rate, pump pressure and stroke rate.

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

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

(A) A kelly cock will be kept in the drill string at all times.

(B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.

(C) H2S monitoring and detection equipment will be utilized from surface casing point to TD.

8. LOGGING, TESTING AND CORING PROGRAM:

Open-hole logs are not planned for this well.

GR–CCL will be run in cased hole during completions phase of operations.

9. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES AND POTENTIAL HAZARDS:

The estimated bottom-hole temperature (BHT) at TD is 184 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 8,299 psig and a maximum anticipated surface pressure of 5,791 psig (based on 14.0 ppg MW). No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. Severe loss circulation is expected from 7,702' to intermediate casing point.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

The drilling operation should be finished in approximately one month. If the well is productive, an additional 60-90 days will be required for completion and testing before a decision is made to install permanent facilities.

EOG Resources requests the option to contract a Surface Rig to drill, set surface casing, and Cement on the subject well. After WOC 8 hours or 500 psi compressive strength (whichever is greater), the Surface Rig will move off so the wellhead can be installed. A welder will cut the casing to the proper height and weld on the wellhead (both "A" and "B" sections). The weld will be tested to 1,000 psi. All valves will be closed and a wellhead cap will be installed (diagram attached). If the timing between rigs is such that EOG Resources would not be able to preset the surface, the Primary Rig will MIRU and drill the well in its entirety per the APD.

11. WELLHEAD:

A multi-bowl wellhead system will be utilized.

After running the 13-3/8" surface casing, a 13-3/8" BOP/BOPE system with a minimum working pressure of 10,000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 10,000 psi pressure test. This pressure test will be repeated at least every 30 days, as per Onshore Order No. 2.

The minimum working pressure of the BOP and related BOPE required for drilling below the surface casing shoe shall be 10,000 psi.

The multi-bowl wellhead will be installed by vendor's representative(s). A copy of the installation instructions for the Cactus Multi-Bowl WH system has been sent to the NM BLM office in Carlsbad, NM.

The wellhead will be installed by a third party welder while being monitored by WH vendor's representative.

All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type. EOG Resources reserves the option to conduct BOPE testing during wait on cement periods provided a test plug is utilized.

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

Casing strings will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1,500 psi, whichever is greater.

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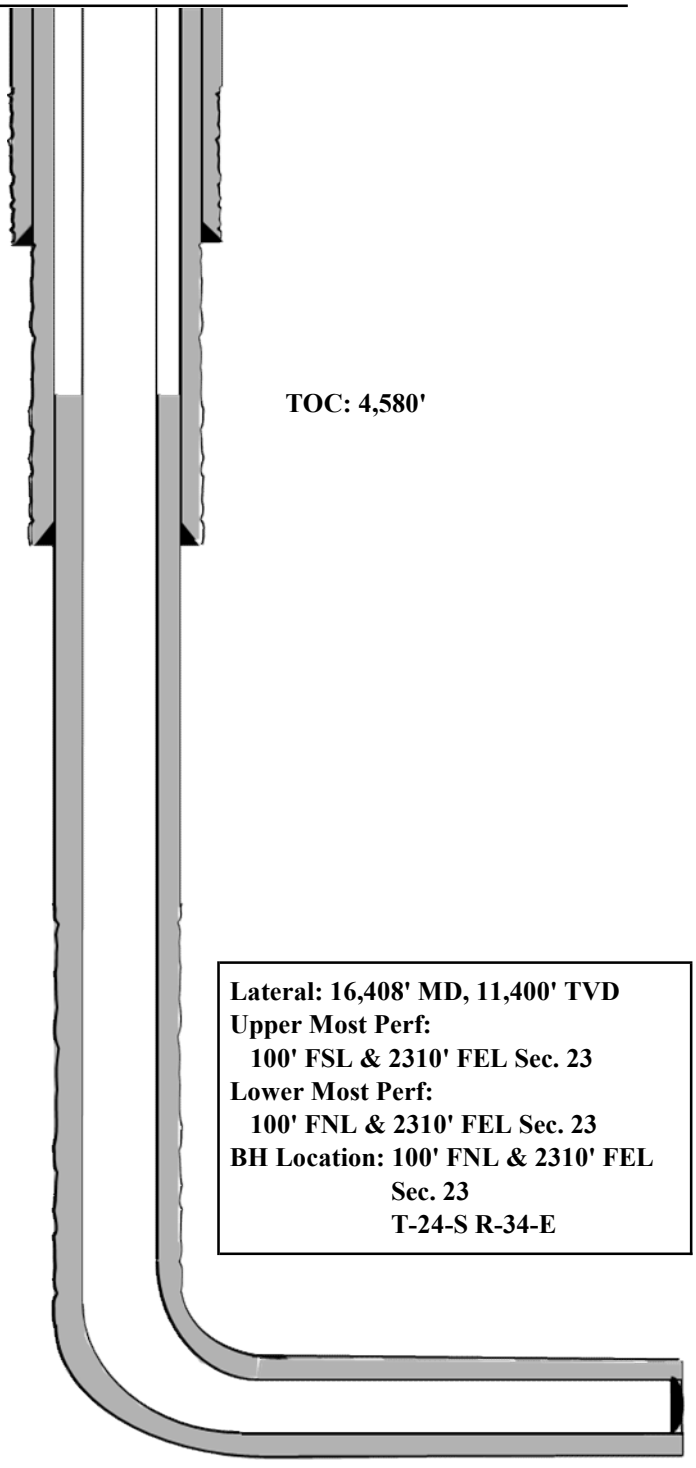
Grackle 23 East Fed Com 501H

1082' FSL
2136' FEL
Section 23
T-24-S, R-34-E

Proposed Wellbore

API: 30-025-*****

KB: 3477'
GL: 3452'



See previously attached Drill Plan

See previously attached Drill Plan

EOG RESOURCES, INC.
Grackle 23 East Fed Com #501H

Hydrogen Sulfide Plan Summary

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

B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.

C. Required Emergency Equipment:

- Well control equipment
  a. Flare line 150' from wellhead to be ignited by flare gun.
  b. Choke manifold with a remotely operated choke.
  c. Mud/gas separator

- Protective equipment for essential personnel.

  Breathing apparatus:
  a. Rescue Packs (SCBA) — 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
  b. Work/Escape packs —4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity.
  c. Emergency Escape Packs —4 packs shall be stored in the doghouse for emergency evacuation.

  Auxiliary Rescue Equipment:
  a. Stretcher
  b. Two OSHA full body harness
  c. 100 ft 5/8 inch OSHA approved rope
  d. 1-20# class ABC fire extinguisher

- H2S detection and monitoring equipment:
  The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor / Bell nipple / End of flow line or where well bore fluid is being discharged.
  (Gas sample tubes will be stored in the safety trailer)

- Visual warning systems.
  a. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
  b. A colored condition flag will be on display, reflecting the current condition at the site at the time.
  c. Two wind socks will be placed in strategic locations, visible from all angles.

- Mud program:

EOG RESOURCES, INC.
Grackle 23 East Fed Com #501H

The mud program has been designed to minimize the volume of H2S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.

- Metallurgy:
  All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.

- Communication:
  Communication will be via cell phones and land lines where available.

EOG RESOURCES, INC.
Grackle 23 East Fed Com #501H

Emergency Assistance Telephone List

PUBLIC SAFETY:	**911 or**
Lea County Sheriff's Department	(575) 396-3611
Rod Coffman	
Fire Department:	
Carlsbad	(575) 885-3125
Artesia	(575) 746-5050
Hospitals:	
Carlsbad	(575) 887-4121
Artesia	(575) 748-3333
Hobbs	(575) 392-1979
Dept. of Public Safety/Carlsbad	(575) 748-9718
Highway Department	(575) 885-3281
New Mexico Oil Conservation	(575) 476-3440
U.S. Dept. of Labor	(575) 887-1174

EOG Resources, Inc.		
EOG / Midland	Office	(432) 686-3600
Company Drilling Consultants:		
Jett Dueitt	Cell	(432) 230-4840
Blake Burney		
Drilling Engineer		
Steve Munsell	Office	(432) 686-3609
	Cell	(432) 894-1256
Drilling Manager		
Aj Dach	Office	(432) 686-3751
	Cell	(817) 480-1167
Drilling Superintendent		
Jason Townsend	Office	(432) 848-9209
	Cell	(210) 776-5131
H&P Drilling		
H&P Drilling	Office	(432) 563-5757
H&P 415 Drilling Rig	Rig	(432) 230-4840
Tool Pusher:		
Johnathan Craig	Cell	(817) 760-6374
Brad Garrett		
Safety		
Brian Chandler (HSE Manager)	Office	(432) 686-3695
	Cell	(817) 239-0251



Midland

Eddy County, NM (NAD 83 NME)
Grackle 23 East Fed Com
#501H

OH

Plan: Plan #0.1 RT

Standard Planning Report

25 August, 2021

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EOG Resources
Planning Report

Database:	PEDM	**Local Co-ordinate Reference:**	Well #501H
Company:	Midland	**TVD Reference:**	kb = 25' @ 3477.0usft
Project:	Eddy County, NM (NAD 83 NME)	**MD Reference:**	kb = 25' @ 3477.0usft
Site:	Grackle 23 East Fed Com	**North Reference:**	Grid
Well:	#501H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1 RT		

Project Eddy County, NM (NAD 83 NME)

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site Grackle 23 East Fed Com

Site Position:		**Northing:**	437,130.00 usft	**Latitude:**	32° 11' 54.917 N
From:	Map	**Easting:**	817,836.00 usft	**Longitude:**	103° 26' 22.028 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well #501H

Well Position	**+N/-S**	0.0 usft	**Northing:**	437,190.00 usft	**Latitude:**	32° 11' 55.502 N
	+E/-W	0.0 usft	**Easting:**	817,941.00 usft	**Longitude:**	103° 26' 20.800 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,452.0 usft
Grid Convergence:		0.48 °				

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	8/25/2021	6.46	59.89	47,472.17317504

Design Plan #0.1 RT

Audit Notes:

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

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	357.10

Plan Survey Tool Program **Date** 8/25/2021

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	16,408.2	Plan #0.1 RT (OH)	EOG MWD+IFR1	
				MWD + IFR1	

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EOG Resources

Planning Report

Database:	PEDM	**Local Co-ordinate Reference:**	Well #501H
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Project:	Eddy County, NM (NAD 83 NME)	**MD Reference:**	kb = 25' @ 3477.0usft
Site:	Grackle 23 East Fed Com	**North Reference:**	Grid
Well:	#501H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1 RT		

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,900.4	10.01	189.08	1,897.9	-43.1	-6.9	2.00	2.00	0.00	189.08	
7,417.6	10.01	189.08	7,331.1	-989.9	-158.1	0.00	0.00	0.00	0.00	
7,918.1	0.00	0.00	7,829.0	-1,033.0	-165.0	2.00	-2.00	0.00	180.00	
11,011.6	0.00	0.00	10,922.5	-1,033.0	-165.0	0.00	0.00	0.00	0.00	KOP(Grackle 23 East
11,232.0	26.46	0.00	11,135.2	-983.0	-165.0	12.00	12.00	0.00	0.00	FTP(Grackle 23 East
11,761.5	90.00	359.51	11,399.9	-555.5	-167.5	12.00	12.00	-0.09	-0.54	
16,408.2	90.00	359.51	11,400.0	4,091.0	-207.0	0.00	0.00	0.00	0.00	PBHL(Grackle 23 Eas

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Planning Report

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Site:	Grackle 23 East Fed Com	**North Reference:**	Grid
Well:	#501H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1 RT		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	2.00	189.08	1,500.0	-1.7	-0.3	-1.7	2.00	2.00	0.00
1,600.0	4.00	189.08	1,599.8	-6.9	-1.1	-6.8	2.00	2.00	0.00
1,700.0	6.00	189.08	1,699.5	-15.5	-2.5	-15.4	2.00	2.00	0.00
1,800.0	8.00	189.08	1,798.7	-27.5	-4.4	-27.3	2.00	2.00	0.00
1,900.4	10.01	189.08	1,897.9	-43.1	-6.9	-42.7	2.00	2.00	0.00
2,000.0	10.01	189.08	1,995.9	-60.1	-9.6	-59.6	0.00	0.00	0.00
2,100.0	10.01	189.08	2,094.4	-77.3	-12.3	-76.6	0.00	0.00	0.00
2,200.0	10.01	189.08	2,192.9	-94.5	-15.1	-93.6	0.00	0.00	0.00
2,300.0	10.01	189.08	2,291.4	-111.6	-17.8	-110.6	0.00	0.00	0.00
2,400.0	10.01	189.08	2,389.9	-128.8	-20.6	-127.6	0.00	0.00	0.00
2,500.0	10.01	189.08	2,488.3	-146.0	-23.3	-144.6	0.00	0.00	0.00
2,600.0	10.01	189.08	2,586.8	-163.1	-26.1	-161.6	0.00	0.00	0.00
2,700.0	10.01	189.08	2,685.3	-180.3	-28.8	-178.6	0.00	0.00	0.00
2,800.0	10.01	189.08	2,783.8	-197.4	-31.5	-195.6	0.00	0.00	0.00
2,900.0	10.01	189.08	2,882.2	-214.6	-34.3	-212.6	0.00	0.00	0.00
3,000.0	10.01	189.08	2,980.7	-231.8	-37.0	-229.6	0.00	0.00	0.00
3,100.0	10.01	189.08	3,079.2	-248.9	-39.8	-246.6	0.00	0.00	0.00
3,200.0	10.01	189.08	3,177.7	-266.1	-42.5	-263.6	0.00	0.00	0.00
3,300.0	10.01	189.08	3,276.2	-283.3	-45.2	-280.6	0.00	0.00	0.00
3,400.0	10.01	189.08	3,374.6	-300.4	-48.0	-297.6	0.00	0.00	0.00
3,500.0	10.01	189.08	3,473.1	-317.6	-50.7	-314.6	0.00	0.00	0.00
3,600.0	10.01	189.08	3,571.6	-334.7	-53.5	-331.6	0.00	0.00	0.00
3,700.0	10.01	189.08	3,670.1	-351.9	-56.2	-348.6	0.00	0.00	0.00
3,800.0	10.01	189.08	3,768.5	-369.1	-59.0	-365.6	0.00	0.00	0.00
3,900.0	10.01	189.08	3,867.0	-386.2	-61.7	-382.6	0.00	0.00	0.00
4,000.0	10.01	189.08	3,965.5	-403.4	-64.4	-399.6	0.00	0.00	0.00
4,100.0	10.01	189.08	4,064.0	-420.6	-67.2	-416.6	0.00	0.00	0.00
4,200.0	10.01	189.08	4,162.5	-437.7	-69.9	-433.6	0.00	0.00	0.00
4,300.0	10.01	189.08	4,260.9	-454.9	-72.7	-450.6	0.00	0.00	0.00
4,400.0	10.01	189.08	4,359.4	-472.0	-75.4	-467.6	0.00	0.00	0.00
4,500.0	10.01	189.08	4,457.9	-489.2	-78.1	-484.6	0.00	0.00	0.00
4,600.0	10.01	189.08	4,556.4	-506.4	-80.9	-501.6	0.00	0.00	0.00
4,700.0	10.01	189.08	4,654.9	-523.5	-83.6	-518.6	0.00	0.00	0.00
4,800.0	10.01	189.08	4,753.3	-540.7	-86.4	-535.6	0.00	0.00	0.00
4,900.0	10.01	189.08	4,851.8	-557.9	-89.1	-552.6	0.00	0.00	0.00
5,000.0	10.01	189.08	4,950.3	-575.0	-91.8	-569.6	0.00	0.00	0.00
5,100.0	10.01	189.08	5,048.8	-592.2	-94.6	-586.6	0.00	0.00	0.00
5,200.0	10.01	189.08	5,147.2	-609.3	-97.3	-603.6	0.00	0.00	0.00
5,300.0	10.01	189.08	5,245.7	-626.5	-100.1	-620.7	0.00	0.00	0.00

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EOG Resources

Planning Report

Database:	PEDM	**Local Co-ordinate Reference:**	Well #501H
Company:	Midland	**TVD Reference:**	kb = 25' @ 3477.0usft
Project:	Eddy County, NM (NAD 83 NME)	**MD Reference:**	kb = 25' @ 3477.0usft
Site:	Grackle 23 East Fed Com	**North Reference:**	Grid
Well:	#501H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1 RT		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.0	10.01	189.08	5,344.2	-643.7	-102.8	-637.7	0.00	0.00	0.00
5,500.0	10.01	189.08	5,442.7	-660.8	-105.6	-654.7	0.00	0.00	0.00
5,600.0	10.01	189.08	5,541.2	-678.0	-108.3	-671.7	0.00	0.00	0.00
5,700.0	10.01	189.08	5,639.6	-695.2	-111.0	-688.7	0.00	0.00	0.00
5,800.0	10.01	189.08	5,738.1	-712.3	-113.8	-705.7	0.00	0.00	0.00
5,900.0	10.01	189.08	5,836.6	-729.5	-116.5	-722.7	0.00	0.00	0.00
6,000.0	10.01	189.08	5,935.1	-746.6	-119.3	-739.7	0.00	0.00	0.00
6,100.0	10.01	189.08	6,033.5	-763.8	-122.0	-756.7	0.00	0.00	0.00
6,200.0	10.01	189.08	6,132.0	-781.0	-124.7	-773.7	0.00	0.00	0.00
6,300.0	10.01	189.08	6,230.5	-798.1	-127.5	-790.7	0.00	0.00	0.00
6,400.0	10.01	189.08	6,329.0	-815.3	-130.2	-807.7	0.00	0.00	0.00
6,500.0	10.01	189.08	6,427.5	-832.5	-133.0	-824.7	0.00	0.00	0.00
6,600.0	10.01	189.08	6,525.9	-849.6	-135.7	-841.7	0.00	0.00	0.00
6,700.0	10.01	189.08	6,624.4	-866.8	-138.5	-858.7	0.00	0.00	0.00
6,800.0	10.01	189.08	6,722.9	-883.9	-141.2	-875.7	0.00	0.00	0.00
6,900.0	10.01	189.08	6,821.4	-901.1	-143.9	-892.7	0.00	0.00	0.00
7,000.0	10.01	189.08	6,919.8	-918.3	-146.7	-909.7	0.00	0.00	0.00
7,100.0	10.01	189.08	7,018.3	-935.4	-149.4	-926.7	0.00	0.00	0.00
7,200.0	10.01	189.08	7,116.8	-952.6	-152.2	-943.7	0.00	0.00	0.00
7,300.0	10.01	189.08	7,215.3	-969.8	-154.9	-960.7	0.00	0.00	0.00
7,400.0	10.01	189.08	7,313.8	-986.9	-157.6	-977.7	0.00	0.00	0.00
7,417.6	10.01	189.08	7,331.1	-989.9	-158.1	-980.7	0.00	0.00	0.00
7,500.0	8.36	189.08	7,412.4	-1,002.9	-160.2	-993.6	2.00	-2.00	0.00
7,600.0	6.36	189.08	7,511.6	-1,015.6	-162.2	-1,006.1	2.00	-2.00	0.00
7,700.0	4.36	189.08	7,611.2	-1,024.8	-163.7	-1,015.2	2.00	-2.00	0.00
7,800.0	2.36	189.08	7,711.0	-1,030.6	-164.6	-1,021.0	2.00	-2.00	0.00
7,900.0	0.36	189.08	7,810.9	-1,032.9	-165.0	-1,023.3	2.00	-2.00	0.00
7,918.1	0.00	0.00	7,829.0	-1,033.0	-165.0	-1,023.3	2.00	-2.00	0.00
8,000.0	0.00	0.00	7,910.9	-1,033.0	-165.0	-1,023.3	0.00	0.00	0.00
8,100.0	0.00	0.00	8,010.9	-1,033.0	-165.0	-1,023.3	0.00	0.00	0.00
8,200.0	0.00	0.00	8,110.9	-1,033.0	-165.0	-1,023.3	0.00	0.00	0.00
8,300.0	0.00	0.00	8,210.9	-1,033.0	-165.0	-1,023.3	0.00	0.00	0.00
8,400.0	0.00	0.00	8,310.9	-1,033.0	-165.0	-1,023.3	0.00	0.00	0.00
8,500.0	0.00	0.00	8,410.9	-1,033.0	-165.0	-1,023.3	0.00	0.00	0.00
8,600.0	0.00	0.00	8,510.9	-1,033.0	-165.0	-1,023.3	0.00	0.00	0.00
8,700.0	0.00	0.00	8,610.9	-1,033.0	-165.0	-1,023.3	0.00	0.00	0.00
8,800.0	0.00	0.00	8,710.9	-1,033.0	-165.0	-1,023.3	0.00	0.00	0.00
8,900.0	0.00	0.00	8,810.9	-1,033.0	-165.0	-1,023.3	0.00	0.00	0.00
9,000.0	0.00	0.00	8,910.9	-1,033.0	-165.0	-1,023.3	0.00	0.00	0.00
9,100.0	0.00	0.00	9,010.9	-1,033.0	-165.0	-1,023.3	0.00	0.00	0.00
9,200.0	0.00	0.00	9,110.9	-1,033.0	-165.0	-1,023.3	0.00	0.00	0.00
9,300.0	0.00	0.00	9,210.9	-1,033.0	-165.0	-1,023.3	0.00	0.00	0.00
9,400.0	0.00	0.00	9,310.9	-1,033.0	-165.0	-1,023.3	0.00	0.00	0.00
9,500.0	0.00	0.00	9,410.9	-1,033.0	-165.0	-1,023.3	0.00	0.00	0.00
9,600.0	0.00	0.00	9,510.9	-1,033.0	-165.0	-1,023.3	0.00	0.00	0.00
9,700.0	0.00	0.00	9,610.9	-1,033.0	-165.0	-1,023.3	0.00	0.00	0.00
9,800.0	0.00	0.00	9,710.9	-1,033.0	-165.0	-1,023.3	0.00	0.00	0.00
9,900.0	0.00	0.00	9,810.9	-1,033.0	-165.0	-1,023.3	0.00	0.00	0.00
10,000.0	0.00	0.00	9,910.9	-1,033.0	-165.0	-1,023.3	0.00	0.00	0.00
10,100.0	0.00	0.00	10,010.9	-1,033.0	-165.0	-1,023.3	0.00	0.00	0.00
10,200.0	0.00	0.00	10,110.9	-1,033.0	-165.0	-1,023.3	0.00	0.00	0.00
10,300.0	0.00	0.00	10,210.9	-1,033.0	-165.0	-1,023.3	0.00	0.00	0.00
10,400.0	0.00	0.00	10,310.9	-1,033.0	-165.0	-1,023.3	0.00	0.00	0.00
10,500.0	0.00	0.00	10,410.9	-1,033.0	-165.0	-1,023.3	0.00	0.00	0.00

eog resources

EOG Resources

Planning Report

Database:	PEDM	**Local Co-ordinate Reference:**	Well #501H
Company:	Midland	**TVD Reference:**	kb = 25' @ 3477.0usft
Project:	Eddy County, NM (NAD 83 NME)	**MD Reference:**	kb = 25' @ 3477.0usft
Site:	Grackle 23 East Fed Com	**North Reference:**	Grid
Well:	#501H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1 RT		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,600.0	0.00	0.00	10,510.9	-1,033.0	-165.0	-1,023.3	0.00	0.00	0.00
10,700.0	0.00	0.00	10,610.9	-1,033.0	-165.0	-1,023.3	0.00	0.00	0.00
10,800.0	0.00	0.00	10,710.9	-1,033.0	-165.0	-1,023.3	0.00	0.00	0.00
10,900.0	0.00	0.00	10,810.9	-1,033.0	-165.0	-1,023.3	0.00	0.00	0.00
11,000.0	0.00	0.00	10,910.9	-1,033.0	-165.0	-1,023.3	0.00	0.00	0.00
11,011.6	0.00	0.00	10,922.5	-1,033.0	-165.0	-1,023.3	0.00	0.00	0.00
11,025.0	1.61	0.00	10,935.9	-1,032.8	-165.0	-1,023.2	12.00	12.00	0.00
11,050.0	4.61	0.00	10,960.9	-1,031.5	-165.0	-1,021.8	12.00	12.00	0.00
11,075.0	7.61	0.00	10,985.8	-1,028.8	-165.0	-1,019.1	12.00	12.00	0.00
11,100.0	10.62	0.00	11,010.4	-1,024.8	-165.0	-1,015.2	12.00	12.00	0.00
11,125.0	13.62	0.00	11,034.9	-1,019.6	-165.0	-1,009.9	12.00	12.00	0.00
11,150.0	16.62	0.00	11,059.0	-1,013.1	-165.0	-1,003.4	12.00	12.00	0.00
11,175.0	19.62	0.00	11,082.8	-1,005.3	-165.0	-995.7	12.00	12.00	0.00
11,200.0	22.62	0.00	11,106.1	-996.3	-165.0	-986.7	12.00	12.00	0.00
11,225.0	25.62	0.00	11,128.9	-986.1	-165.0	-976.5	12.00	12.00	0.00
11,232.0	26.46	0.00	11,135.2	-983.0	-165.0	-973.4	12.00	12.00	0.00
11,250.0	28.62	359.96	11,151.2	-974.7	-165.0	-965.1	12.00	12.00	-0.24
11,275.0	31.62	359.91	11,172.8	-962.1	-165.0	-952.6	12.00	12.00	-0.20
11,300.0	34.62	359.86	11,193.7	-948.5	-165.0	-938.9	12.00	12.00	-0.17
11,325.0	37.62	359.83	11,213.9	-933.7	-165.1	-924.2	12.00	12.00	-0.15
11,350.0	40.62	359.80	11,233.3	-918.0	-165.1	-908.5	12.00	12.00	-0.13
11,375.0	43.62	359.77	11,251.8	-901.2	-165.2	-891.7	12.00	12.00	-0.11
11,400.0	46.62	359.74	11,269.5	-883.5	-165.3	-874.0	12.00	12.00	-0.10
11,425.0	49.62	359.72	11,286.2	-864.9	-165.4	-855.4	12.00	12.00	-0.09
11,450.0	52.62	359.70	11,301.9	-845.4	-165.5	-836.0	12.00	12.00	-0.08
11,475.0	55.62	359.68	11,316.5	-825.2	-165.6	-815.8	12.00	12.00	-0.08
11,500.0	58.62	359.66	11,330.1	-804.2	-165.7	-794.8	12.00	12.00	-0.07
11,525.0	61.62	359.64	11,342.5	-782.5	-165.8	-773.1	12.00	12.00	-0.07
11,550.0	64.62	359.63	11,353.8	-760.2	-166.0	-750.9	12.00	12.00	-0.06
11,575.0	67.62	359.61	11,364.0	-737.4	-166.1	-728.0	12.00	12.00	-0.06
11,600.0	70.62	359.60	11,372.9	-714.0	-166.3	-704.7	12.00	12.00	-0.06
11,625.0	73.62	359.58	11,380.6	-690.2	-166.5	-680.9	12.00	12.00	-0.06
11,650.0	76.62	359.57	11,387.0	-666.1	-166.6	-656.8	12.00	12.00	-0.05
11,675.0	79.62	359.56	11,392.1	-641.6	-166.8	-632.4	12.00	12.00	-0.05
11,700.0	82.62	359.54	11,396.0	-616.9	-167.0	-607.7	12.00	12.00	-0.05
11,725.0	85.62	359.53	11,398.5	-592.0	-167.2	-582.8	12.00	12.00	-0.05
11,750.0	88.62	359.52	11,399.8	-567.1	-167.4	-557.9	12.00	12.00	-0.05
11,761.5	90.00	359.51	11,399.9	-555.5	-167.5	-546.4	12.00	12.00	-0.05
11,800.0	90.00	359.51	11,399.9	-517.1	-167.8	-507.9	0.00	0.00	0.00
11,900.0	90.00	359.51	11,399.9	-417.1	-168.7	-408.0	0.00	0.00	0.00
12,000.0	90.00	359.51	11,399.9	-317.1	-169.5	-308.1	0.00	0.00	0.00
12,100.0	90.00	359.51	11,400.0	-217.1	-170.4	-208.2	0.00	0.00	0.00
12,200.0	90.00	359.51	11,400.0	-117.1	-171.2	-108.3	0.00	0.00	0.00
12,300.0	90.00	359.51	11,400.0	-17.1	-172.1	-8.4	0.00	0.00	0.00
12,400.0	90.00	359.51	11,400.0	82.9	-172.9	91.5	0.00	0.00	0.00
12,500.0	90.00	359.51	11,400.0	182.9	-173.8	191.4	0.00	0.00	0.00
12,600.0	90.00	359.51	11,400.0	282.9	-174.6	291.4	0.00	0.00	0.00
12,700.0	90.00	359.51	11,400.0	382.9	-175.5	391.3	0.00	0.00	0.00
12,800.0	90.00	359.51	11,400.0	482.9	-176.3	491.2	0.00	0.00	0.00
12,900.0	90.00	359.51	11,400.0	582.9	-177.2	591.1	0.00	0.00	0.00
13,000.0	90.00	359.51	11,400.0	682.9	-178.0	691.0	0.00	0.00	0.00
13,100.0	90.00	359.51	11,400.0	782.9	-178.9	790.9	0.00	0.00	0.00
13,200.0	90.00	359.51	11,400.0	882.9	-179.7	890.8	0.00	0.00	0.00
13,300.0	90.00	359.51	11,400.0	982.9	-180.6	990.7	0.00	0.00	0.00

eog resources

EOG Resources

Planning Report

Database:	PEDM	**Local Co-ordinate Reference:**	Well #501H
Company:	Midland	**TVD Reference:**	kb = 25' @ 3477.0usft
Project:	Eddy County, NM (NAD 83 NME)	**MD Reference:**	kb = 25' @ 3477.0usft
Site:	Grackle 23 East Fed Com	**North Reference:**	Grid
Well:	#501H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1 RT		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,400.0	90.00	359.51	11,400.0	1,082.9	-181.4	1,090.6	0.00	0.00	0.00
13,500.0	90.00	359.51	11,400.0	1,182.9	-182.3	1,190.6	0.00	0.00	0.00
13,600.0	90.00	359.51	11,400.0	1,282.9	-183.1	1,290.5	0.00	0.00	0.00
13,700.0	90.00	359.51	11,400.0	1,382.9	-184.0	1,390.4	0.00	0.00	0.00
13,800.0	90.00	359.51	11,400.0	1,482.8	-184.8	1,490.3	0.00	0.00	0.00
13,900.0	90.00	359.51	11,400.0	1,582.8	-185.7	1,590.2	0.00	0.00	0.00
14,000.0	90.00	359.51	11,400.0	1,682.8	-186.5	1,690.1	0.00	0.00	0.00
14,100.0	90.00	359.51	11,400.0	1,782.8	-187.4	1,790.0	0.00	0.00	0.00
14,200.0	90.00	359.51	11,400.0	1,882.8	-188.2	1,889.9	0.00	0.00	0.00
14,300.0	90.00	359.51	11,400.0	1,982.8	-189.1	1,989.9	0.00	0.00	0.00
14,400.0	90.00	359.51	11,400.0	2,082.8	-189.9	2,089.8	0.00	0.00	0.00
14,500.0	90.00	359.51	11,400.0	2,182.8	-190.8	2,189.7	0.00	0.00	0.00
14,600.0	90.00	359.51	11,400.0	2,282.8	-191.6	2,289.6	0.00	0.00	0.00
14,700.0	90.00	359.51	11,400.0	2,382.8	-192.5	2,389.5	0.00	0.00	0.00
14,800.0	90.00	359.51	11,400.0	2,482.8	-193.3	2,489.4	0.00	0.00	0.00
14,900.0	90.00	359.51	11,400.0	2,582.8	-194.2	2,589.3	0.00	0.00	0.00
15,000.0	90.00	359.51	11,400.0	2,682.8	-195.0	2,689.2	0.00	0.00	0.00
15,100.0	90.00	359.51	11,400.0	2,782.8	-195.9	2,789.1	0.00	0.00	0.00
15,200.0	90.00	359.51	11,400.0	2,882.8	-196.7	2,889.1	0.00	0.00	0.00
15,300.0	90.00	359.51	11,400.0	2,982.8	-197.6	2,989.0	0.00	0.00	0.00
15,400.0	90.00	359.51	11,400.0	3,082.8	-198.4	3,088.9	0.00	0.00	0.00
15,500.0	90.00	359.51	11,400.0	3,182.8	-199.3	3,188.8	0.00	0.00	0.00
15,600.0	90.00	359.51	11,400.0	3,282.8	-200.1	3,288.7	0.00	0.00	0.00
15,700.0	90.00	359.51	11,400.0	3,382.8	-201.0	3,388.6	0.00	0.00	0.00
15,800.0	90.00	359.51	11,400.0	3,482.8	-201.8	3,488.5	0.00	0.00	0.00
15,900.0	90.00	359.51	11,400.0	3,582.8	-202.7	3,588.4	0.00	0.00	0.00
16,000.0	90.00	359.51	11,400.0	3,682.8	-203.5	3,688.3	0.00	0.00	0.00
16,100.0	90.00	359.51	11,400.0	3,782.8	-204.4	3,788.3	0.00	0.00	0.00
16,200.0	90.00	359.51	11,400.0	3,882.8	-205.2	3,888.2	0.00	0.00	0.00
16,300.0	90.00	359.51	11,400.0	3,982.8	-206.1	3,988.1	0.00	0.00	0.00
16,408.2	90.00	359.51	11,400.0	4,091.0	-207.0	4,096.2	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP(Grackle 23 East Fe - plan hits target center - Point	0.00	0.00	10,922.5	-1,033.0	-165.0	436,157.00	817,776.00	32° 11' 45.294 N	103° 26' 22.820 W
FTP(Grackle 23 East Fe - plan hits target center - Point	0.00	0.00	11,135.2	-983.0	-165.0	436,207.00	817,776.00	32° 11' 45.789 N	103° 26' 22.815 W
PBHL(Grackle 23 East F - plan hits target center - Point	0.00	0.00	11,400.0	4,091.0	-207.0	441,281.00	817,734.00	32° 12' 35.999 N	103° 26' 22.813 W

Received by OCD: 3/25/2026 9:29:27 AM

eog resources

Eddy County, NM (NAD 83 NME)

Grackle 23 East Fed Com #501H

Plan #0.1 RT



Azimuths to Grid North
True North: -0.48°
Magnetic North: 5.98°

Magnetic Field
Strength: 47472.2nT
Dip Angle: 59.89°
Date: 8/25/2021
Model: IGRF2020

To convert a Magnetic Direction to a Grid Direction, Add 5.98°
To convert a Magnetic Direction to a True Direction, Add 6.46° East
To convert a True Direction to a Grid Direction, Subtract 0.48°

PROJECT DETAILS: Eddy County, NM (NAD 83 NME)

Geodetic System:	US State Plane 1983
Datum:	North American Datum 1983
Ellipsoid:	GRS 1980
Zone:	New Mexico Eastern Zone
System Datum:	Mean Sea Level

WELL DETAILS: #501H

3452.0
kb = 25' @ 3477.0usft

Northing	Easting	Latittude	Longitude
437190.00	817941.00	32° 11' 55.502 N	103° 26' 20.800 W

SECTION DETAILS

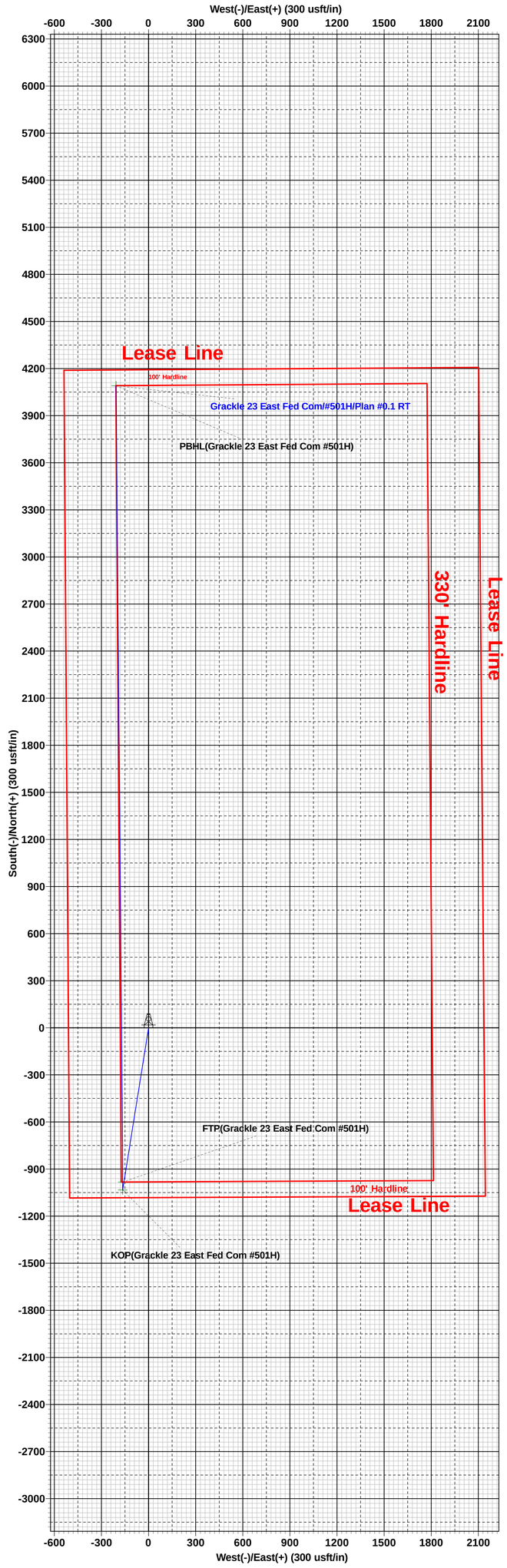
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1400.0	0.00	0.00	1400.0	0.0	0.0	0.00	0.00	0.0	
3	1900.4	10.01	189.08	1897.9	-43.1	-6.9	2.00	189.08	-42.7	
4	7417.6	10.01	189.08	7331.1	-989.9	-158.1	0.00	0.00	-980.7	
5	7918.1	0.00	0.00	7829.0	-1033.0	-165.0	2.00	180.00	-1023.3	
6	11011.6	0.00	0.00	10922.5	-1033.0	-165.0	0.00	0.00	-1023.3	KOP(Grackle 23 East Fed Com #501H)
7	11232.0	26.46	0.00	11135.2	-983.0	-165.0	12.00	0.00	-973.4	FTP(Grackle 23 East Fed Com #501H)
8	11761.5	90.00	359.51	11399.9	-555.5	-167.5	12.00	-0.54	-546.4	
9	16408.2	90.00	359.51	11400.0	4091.0	-207.0	0.00	0.00	4096.2	PBHL(Grackle 23 East Fed Com #501H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

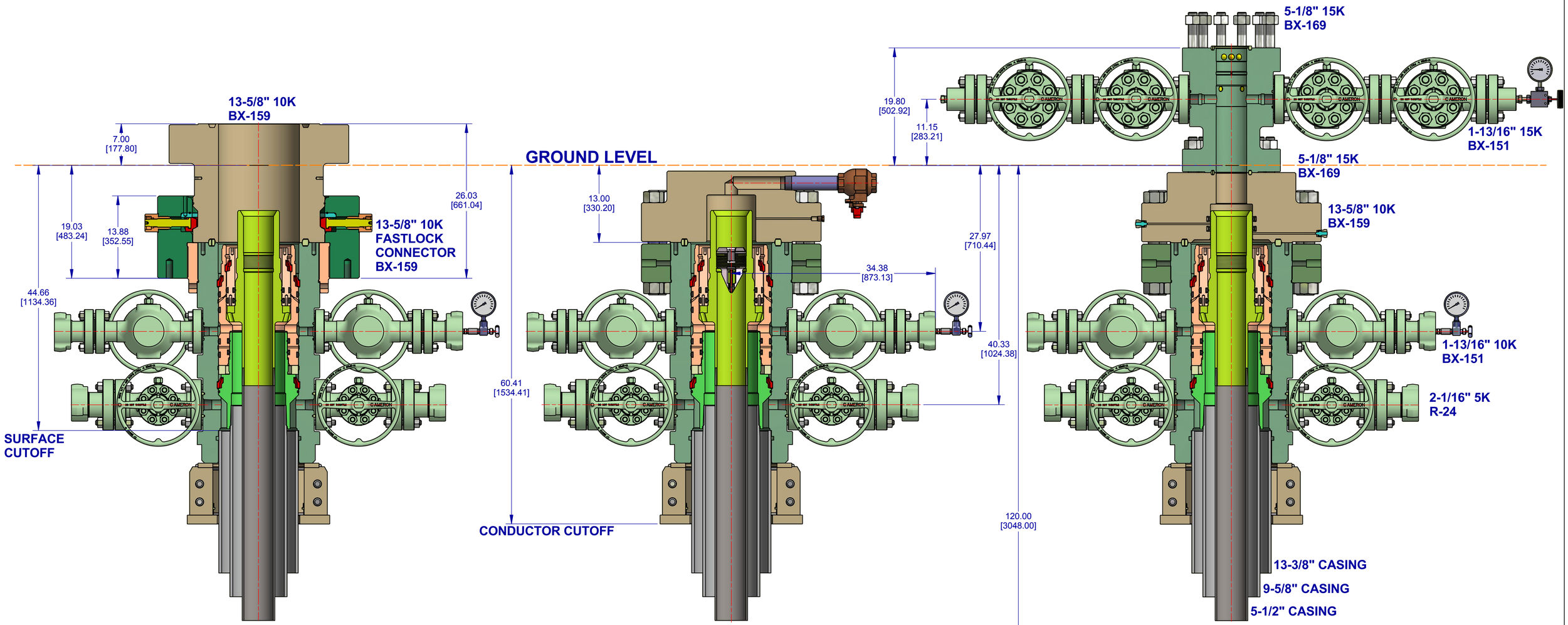
Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP(Grackle 23 East Fed Com #501H)	10922.5	-1033.0	-165.0	436157.00	817776.00
FTP(Grackle 23 East Fed Com #501H)	11135.2	-983.0	-165.0	436207.00	817776.00
PBHL(Grackle 23 East Fed Com #501H)	11400.0	4091.0	-207.0	441281.00	817734.00



Eddy County, NM (NAD 83 NME)
Grackle 23 East Fed Com
#501H
OH
Plan #0.1 RT
14:34, August 25 2021

Released to Imaging: 4/16/2026 3:34:24 PM

Received by OCD: 3/25/2026 9:29:27 AM



CONFIDENTIAL

THIRD ANGLE	DESIGNED IN INCHES DIMENSIONAL UNITS INCHES [MILLIMETERS]	MACHINING TOLERANCES UNLESS OTHERWISE SPECIFIED X [0.] ± = [] .XX [0.X] ± = [] .XXX [0.XX] ± = [] ANGLES ± ° RA ON ALL MACHINED SURFACES	SURFACE TREATMENT	DO NOT SCALE	CAMERON A Schlumberger Company / SURFACE SYSTEMS
MACHINED FILLET RADII .015-.050 [0.38-1.27]. BREAK ALL SHARP EDGES .01-.03 [0.2-0.8] RADII OR 45°. SURFACE FINISH IN MICRO (µ) INCHES (Ra). INTERPRET DRAWING PER ASME Y14.5, ASME Y14.36, AND AWS A2.4 STANDARDS. SEE B/M FOR MATERIAL AND SPECIAL REQUIREMENTS. ITEM NUMBERS NOT APPEARING ON B/M DO NOT APPLY.			MATERIAL & HEAT TREAT	DRAWN BY: KEN REED / DATE: 6 Nov 18 CHECKED BY: PA / DATE: 6 Nov 18 APPROVED BY: APPROVER NAME / DATE: 6 Nov 18	EOG RESOURCES, INC 13-5/8" 10K MN-DS WELLHEAD 13-3/8" X 9-5/8" X 5-1/2"
			ESTIMATED WEIGHT:	8147.2 LBS 3695.5 KG	INITIAL USE B/M: EWR:650353762
				SHEET 1 OF 1	SD-052491-19-07 / REV. 01

INVENTOR - D

Released to Imaging: 4/16/2026 3:34:24 PM

eog resources

Grackle 23 East Fed Com 501H

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	989'
Tamarisk Anhydrite	1,094'
Top of Salt	1,559'
Base of Salt	4,976'
Lamar	5,244'
Bell Canyon	5,272'
Cherry Canyon	6,209'
Brushy Canyon	7,702'
Bone Spring Lime	9,078'
Leonard Shale	9,429'
1st Bone Spring Sand	10,461'
2nd Bone Spring Shale	10,692'
2nd Bone Spring Sand	10,984'
3rd Bone Spring Carb	11,492'
3rd Bone Spring Sand	12,019'
Wolfcamp	12,320'
TD	11,400'

3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	0- 400’	Fresh Water
Cherry Canyon	5,938'	Oil
Brushy Canyon	7,484'	Oil
Leonard Shale	4,071'	Oil
1st Bone Spring Sand	7,030'	Oil
2nd Bone Spring Shale	7,242'	Oil
2nd Bone Spring Sand	7,809'	Oil

No other Formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 13-3/8" casing at 1,119' and circulating cement back to surface.

eog resources

Grackle 23 East Fed Com 501H

4. CASING PROGRAM - NEW

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DFmin Collapse	DFmin Burst	DFmin Tension
16"	0' - 1,120'	13.375"	54.5#	J-55	STC	1.125	1.25	1.6
12.25"	0' - 4,000'	9.625"	40#	J-55	LTC	1.125	1.25	1.6
12.25"	4,000' - 5,080'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.6
8.75"	0' - 11,762'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.6
8.5"	11,762' - 16,408'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.6

Variance is requested to waive the centralizer requirements for the 9-5/8" casing in the 12-1/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 12-1/4" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive any centralizer requirements for the 5-1/2" casing in the 8-3/4" and 8-1/2" hole sizes. An expansion additive will be utilized, in the cement slurry, for the entire length of the 8-3/4" and 8-1/2" hole intervals to maximize cement bond and zonal isolation.

Cementing Program:

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
1,120' 13.375"	340	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	100	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 920')
5,080' 9.625"	740	12.7	2.22	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	320	14.8	1.32	Tail: Class C + 10% NaCL + 3% MagOx (TOC @ 4061')
16,408' 5.5"	650	11.0	3.21	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 4580')
	1330	14.4	1.2	Tail: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 11020')

eog resources

Grackle 23 East Fed Com 501H

Additive	Purpose
Bentonite Gel	Lightweight/Lost circulation prevention
Calcium Chloride	Accelerator
Cello-flake	Lost circulation prevention
Sodium Metasilicate	Accelerator
MagOx	Expansive agent
Pre-Mag-M	Expansive agent
Sodium Chloride	Accelerator
FL-62	Fluid loss control
Halad-344	Fluid loss control
Halad-9	Fluid loss control
HR-601	Retarder
Microbond	Expansive Agent

Cement integrity tests will be performed immediately following plug bump.

Note: Cement volumes based on bit size plus at least 25% excess in the open hole plus 10% excess in the cased-hole overlap section.

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Variance is requested to use a co-flex line between the BOP and choke manifold (instead of using a 4" OD steel line).

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (5,000-psi WP). Both units will be hydraulically operated and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

EOG will utilize wing unions on BOPE connections that can be isolated from wellbore pressure through means of a choke. All wing unions will be rated to a pressure that meets or exceeds the pressure rating of the BOPE system.

Variance is requested to use a 5,000 psi annular BOP with the 10,000 psi BOP stack.

Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 10,000/ 250 psig and the annular preventer to 5,000/ 250 psig.

Pipe rams and blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

A hydraulically operated choke will be installed prior to drilling out of the intermediate casing shoe.

eog resources

Grackle 23 East Fed Com 501H

6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

During this procedure we plan to use a Closed-Loop System and haul contents to the required disposal.

The applicable depths and properties of the drilling fluid systems are as follows:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,120'	Fresh - Gel	8.6-8.8	28-34	N/c
1,120' – 5,080'	Brine	8.6-8.8	28-34	N/c
4,880' – 16,408' Lateral	Oil Base	8.8-9.5	58-68	N/c - 6

An electronic pit volume totalizer (PVT) will be utilized on the circulating system, to monitor pit volume, flow rate, pump pressure and stroke rate.

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

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

(A) A kelly cock will be kept in the drill string at all times.

(B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.

(C) H2S monitoring and detection equipment will be utilized from surface casing point to TD.

8. LOGGING, TESTING AND CORING PROGRAM:

Open-hole logs are not planned for this well.

GR–CCL will be run in cased hole during completions phase of operations.

9. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES AND POTENTIAL HAZARDS:

The estimated bottom-hole temperature (BHT) at TD is 184 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 8,299 psig and a maximum anticipated surface pressure of 5,791 psig (based on 14.0 ppg MW). No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. Severe loss circulation is expected from 7,702' to intermediate casing point.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

The drilling operation should be finished in approximately one month. If the well is productive, an additional 60-90 days will be required for completion and testing before a decision is made to install permanent facilities.

EOG Resources requests the option to contract a Surface Rig to drill, set surface casing, and Cement on the subject well. After WOC 8 hours or 500 psi compressive strength (whichever is greater), the Surface Rig will move off so the wellhead can be installed. A welder will cut the casing to the proper height and weld on the wellhead (both "A" and "B" sections). The weld will be tested to 1,000 psi. All valves will be closed and a wellhead cap will be installed (diagram attached). If the timing between rigs is such that EOG Resources would not be able to preset the surface, the Primary Rig will MIRU and drill the well in its entirety per the APD.

11. WELLHEAD:

A multi-bowl wellhead system will be utilized.

After running the 13-3/8" surface casing, a 13-3/8" BOP/BOPE system with a minimum working pressure of 10,000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 10,000 psi pressure test. This pressure test will be repeated at least every 30 days, as per Onshore Order No. 2.

The minimum working pressure of the BOP and related BOPE required for drilling below the surface casing shoe shall be 10,000 psi.

The multi-bowl wellhead will be installed by vendor's representative(s). A copy of the installation instructions for the Cactus Multi-Bowl WH system has been sent to the NM BLM office in Carlsbad, NM.

The wellhead will be installed by a third party welder while being monitored by WH vendor's representative.

All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type. EOG Resources reserves the option to conduct BOPE testing during wait on cement periods provided a test plug is utilized.

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

Casing strings will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1,500 psi, whichever is greater.

eog resources

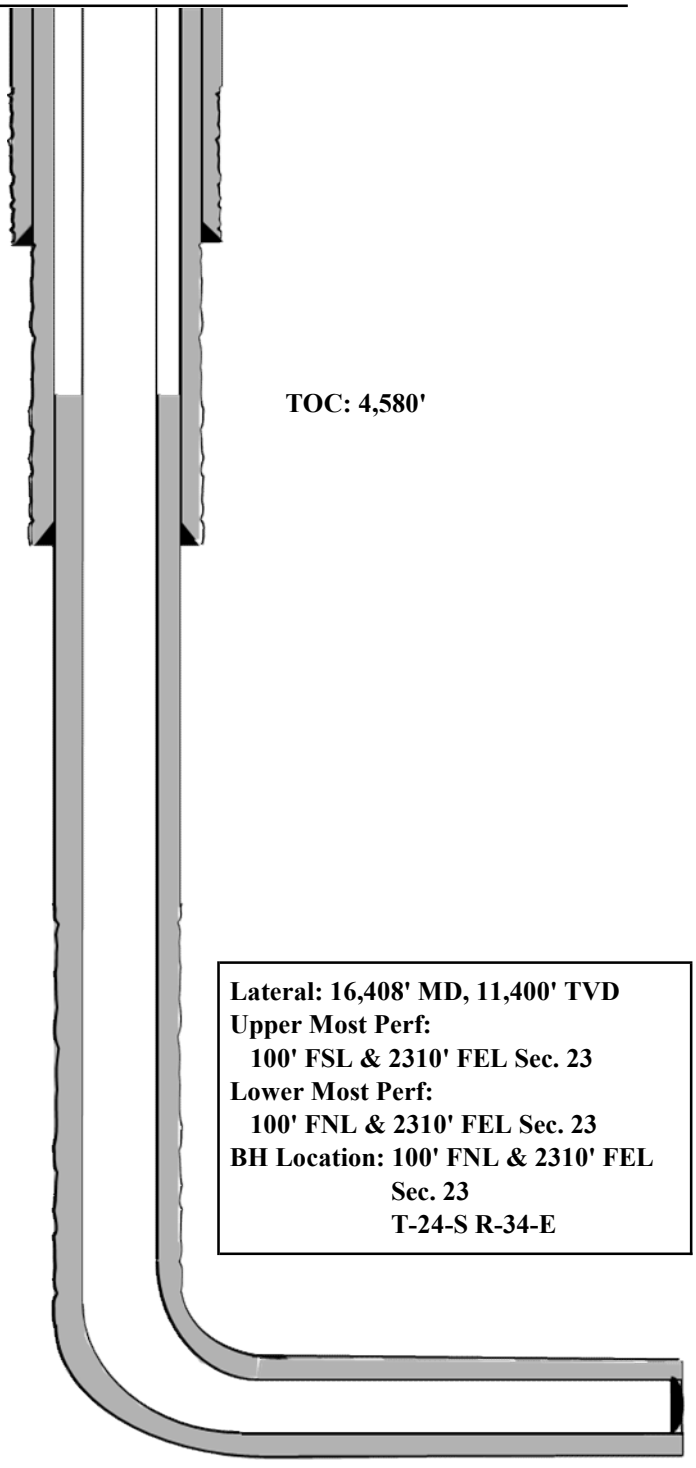
Grackle 23 East Fed Com 501H

1082' FSL
2136' FEL
Section 23
T-24-S, R-34-E

Proposed Wellbore

API: 30-025-*****

KB: 3477'
GL: 3452'



Bit Size: 16"
13-3/8", 40#, J-55, LTC 0' - 1,120'

Bit Size: 12-1/4"
9-5/8" 40.#, J-55, LTC, 0' - 4,000'
9-5/8" 40.#, HCK-55, LTC, 4,000' - 5,080'

TOC: 4,580'

Bit Size: 8-3/4"
5-1/2" 17#, HCP-110, LTC@ 0' - 16,408'

KOP: 11,012'

Lateral: 16,408' MD, 11,400' TVD
Upper Most Perf:
100' FSL & 2310' FEL Sec. 23
Lower Most Perf:
100' FNL & 2310' FEL Sec. 23
BH Location: 100' FNL & 2310' FEL
Sec. 23
T-24-S R-34-E

Bit Size: 8-1/2"

Exhibit 4

Well Site Diagram

EOG Resources
Grackle 23 East Fed Com #501H

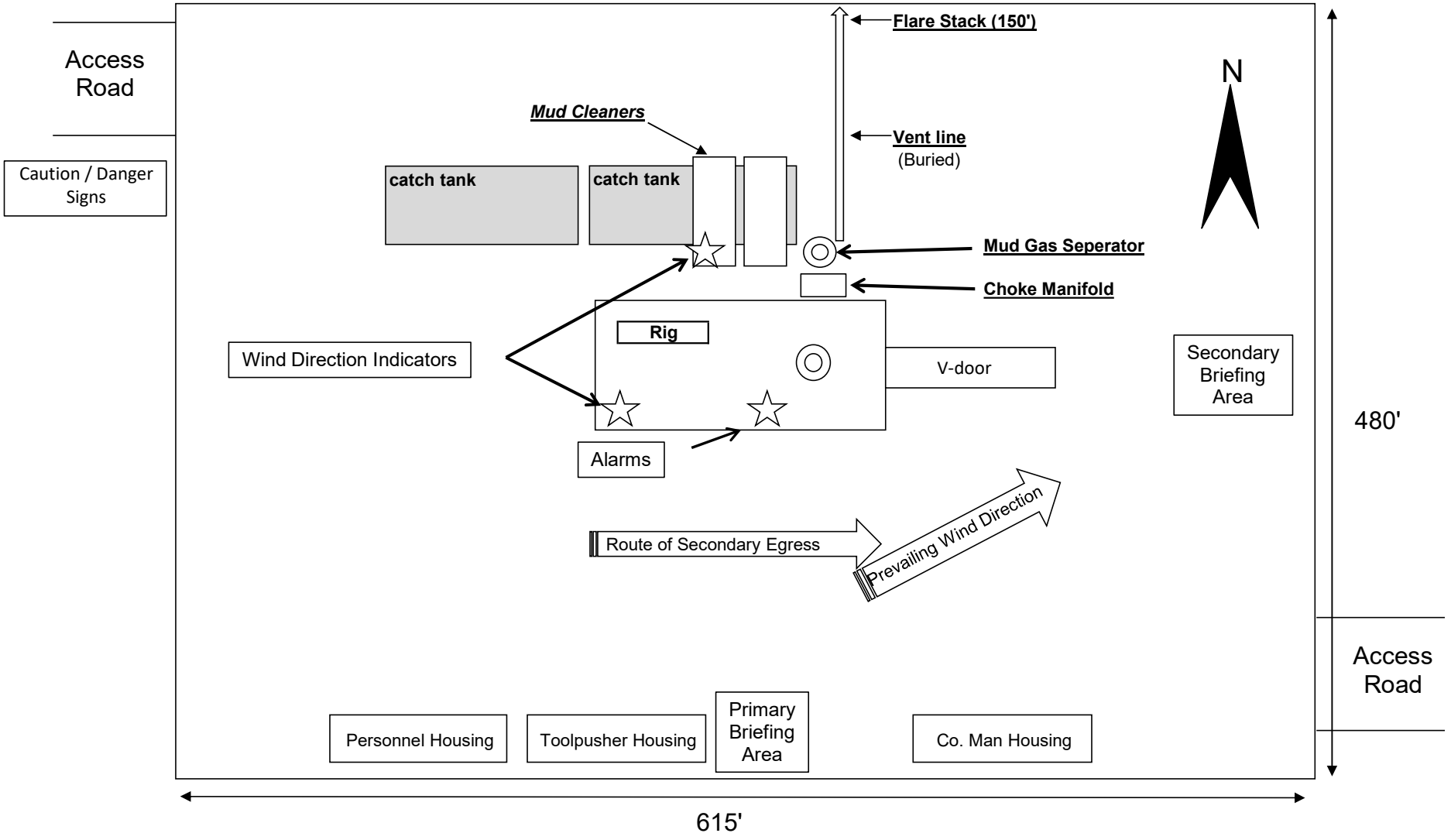
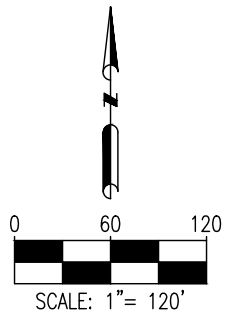
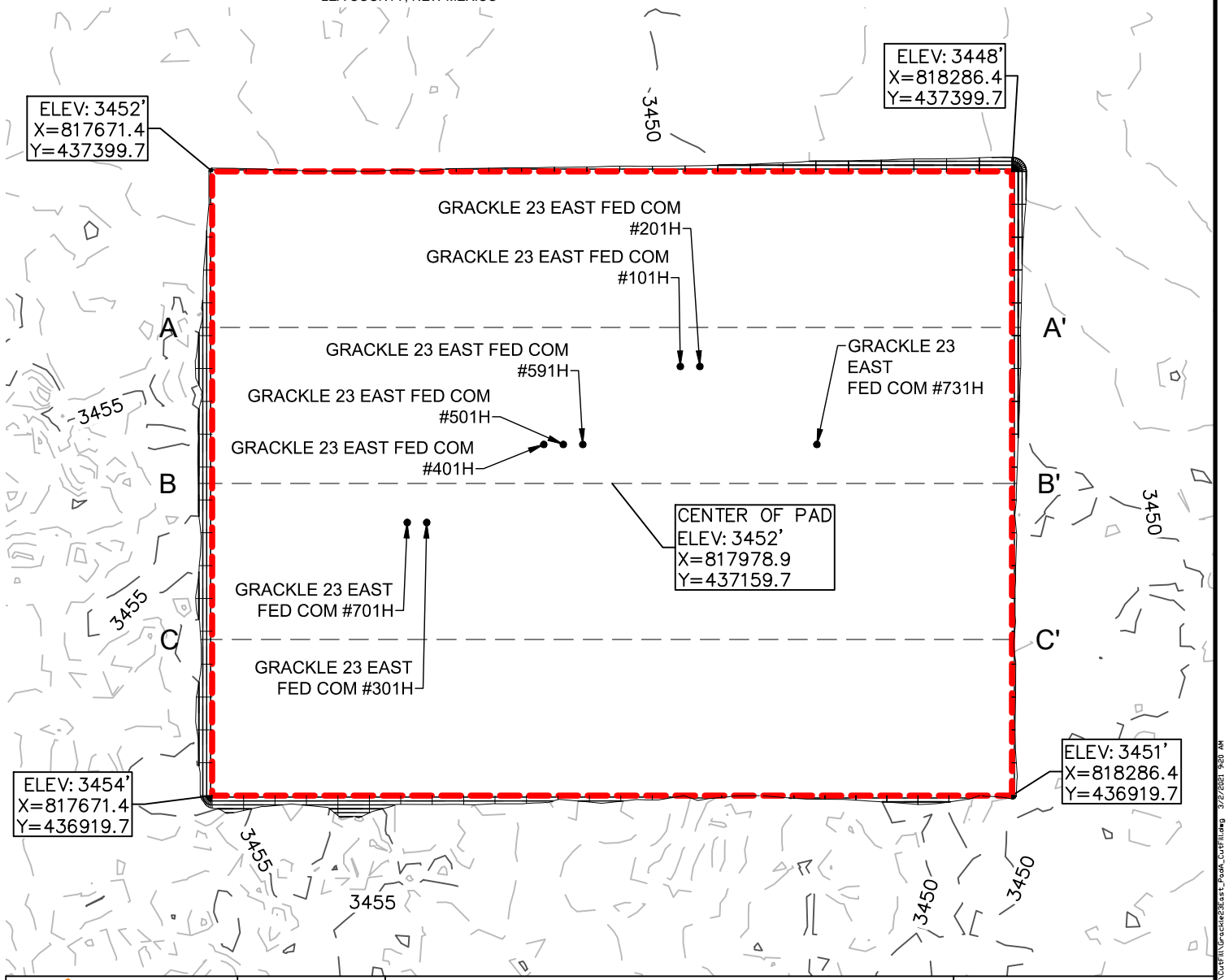


EXHIBIT 6
GRACKLE 23 EAST FED COM
PAD A

SECTION 23, TOWNSHIP 24S, RANGE 34E, N.M.P.M.
LEA COUNTY, NEW MEXICO





PROPOSED QUANTITIES

TOP OF PAD ELEVATION: 3451.6'
CUT SLOPE: 33.33% 3.000:1 18.43°
FILL SLOPE: 33.33% 3.000:1 18.43°
BALANCE TOLERANCE (C.Y.): ±0%
CUT SWELL FACTOR: 1.00
FILL SHRINK FACTOR: 1.00

PAD EARTHWORK VOLUMES
CUT: 220,752 C.F., 8,176 C.Y.
FILL: 220,752 C.F., 8,176 C.Y.
AREA: 308,297 SQ.FT., 7.1 ACRES

NOTES:
1. A COMPLETE UTILITIES LOCATION IS RECOMMENDED BEFORE CONSTRUCTION.
2. ALL BEARING, DISTANCE, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON NAD83 NEW MEXICO STATE PLANE, EAST ZONE, U.S. SURVEY FOOT.
3. EARTHWORK QUANTITIES ARE APPROXIMATE & FOR INFORMATION ONLY. 6" OF TOPSOIL HAS BEEN SUBTRACTED FROM EXISTING SURFACE PRIOR TO PERFORMING EARTHWORK CALCULATIONS.
4. SITE QUANTITIES HAVE BEEN BALANCED TO WITHIN A TENTH OF A FOOT IN ACCORDANCE WITH ACCEPTABLE CONSTRUCTION TOLERANCES.

DISCLAIMER:
THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY AND SHOULD NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES, PROPERTY OWNERSHIP OR OTHER PROPERTY INTERESTS. PARCEL LINES, IF DEPICTED HAVE NOT BEEN FIELD VERIFIED AND MAY BE BASED UPON PUBLICLY AVAILABLE DATA THAT ALSO HAS NOT BEEN INDEPENDENTLY VERIFIED.

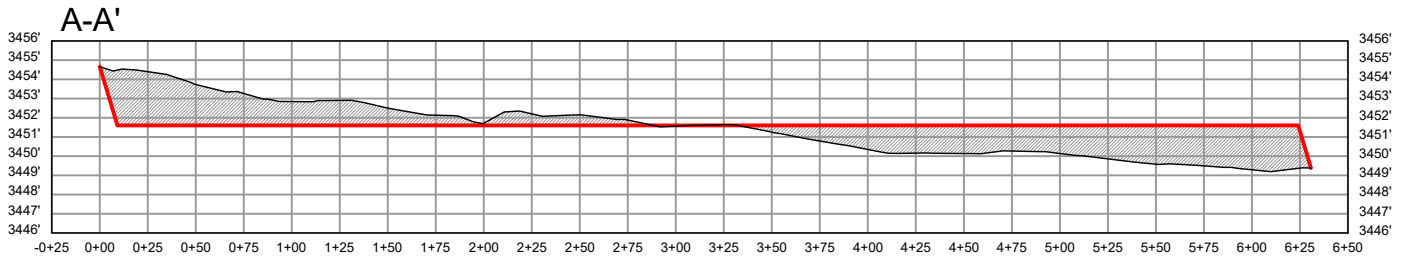
ASCENT GEOMATICS SOLUTIONS
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680
www.ascentgeomatics.com

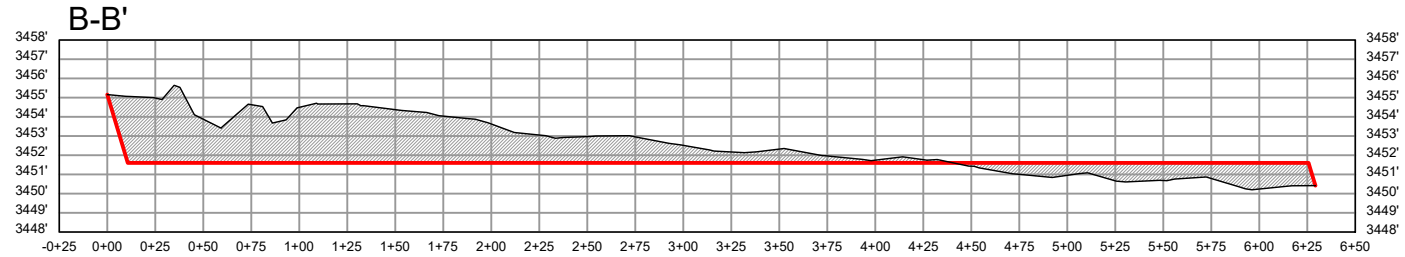
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PREPARED FOR:	eog resources

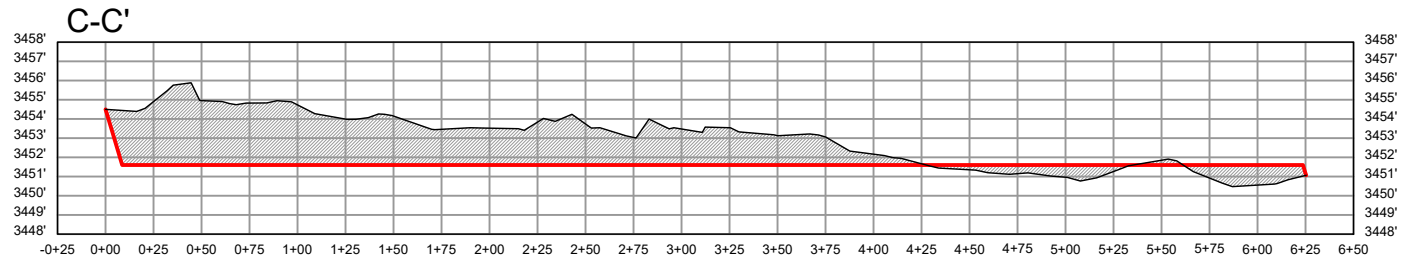
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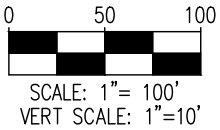
EXHIBIT 6A
GRACKLE 23 EAST FED COM
PAD A

SECTION 23, TOWNSHIP 24S, RANGE 34E, N.M.P.M.
LEA COUNTY, NEW MEXICO









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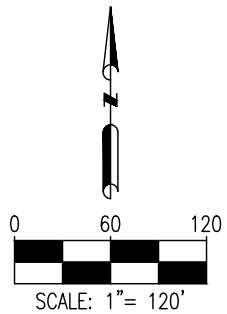
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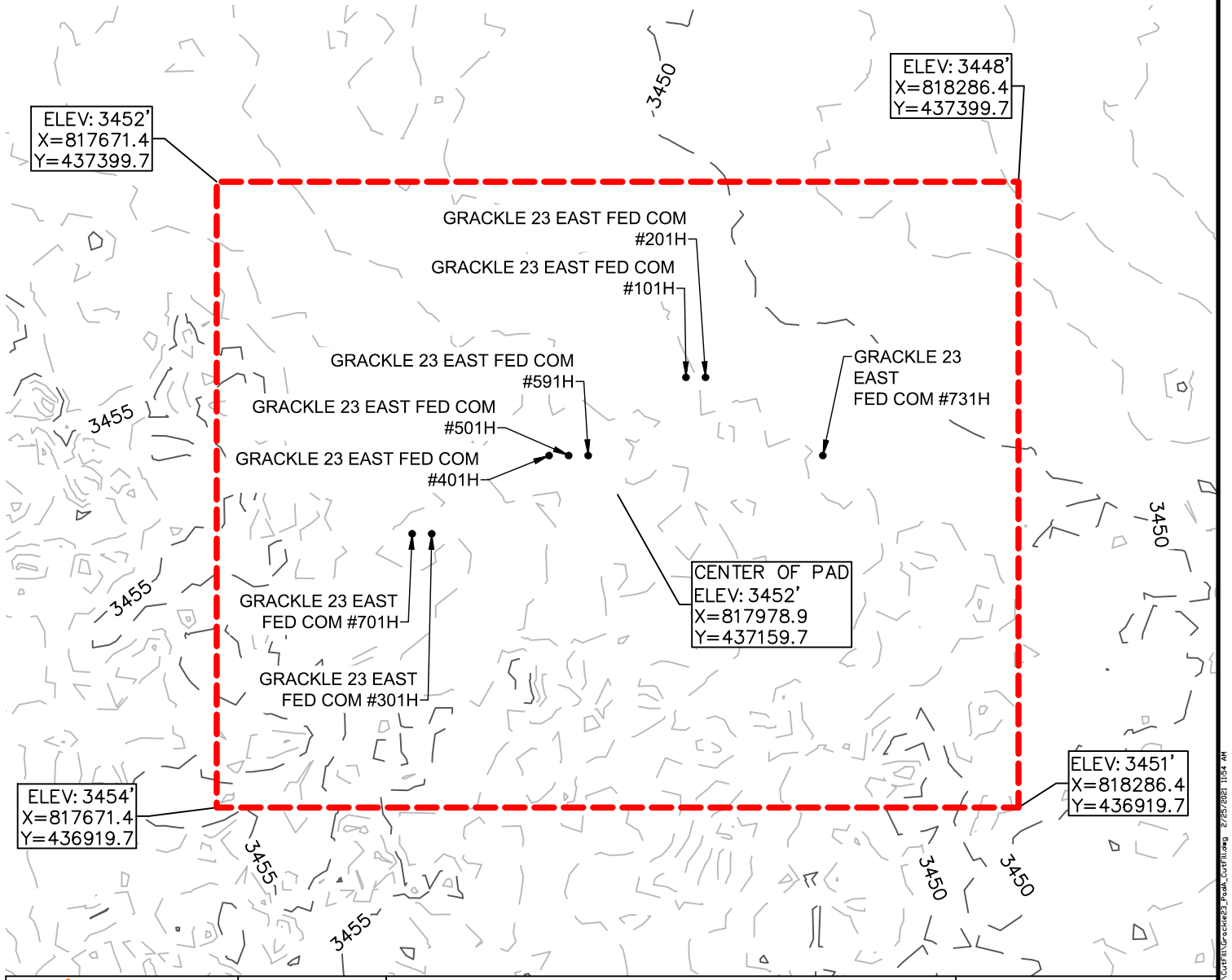
PREPARED FOR: eog resources

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EXHIBIT 6B
GRACKLE 23 EAST FED COM
PAD A

SECTION 23, TOWNSHIP 24S, RANGE 34E, N.M.P.M.
LEA COUNTY, NEW MEXICO





PROPOSED QUANTITIES

TOP OF PAD ELEVATION: 3451.6'
CUT SLOPE: 33.33% 3.000:1 18.43°
FILL SLOPE: 33.33% 3.000:1 18.43°
BALANCE TOLERANCE (C.Y.): ±0%
CUT SWELL FACTOR: 1.00
FILL SHRINK FACTOR: 1.00

PAD EARTHWORK VOLUMES
CUT: 220,752 C.F., 8,176 C.Y.
FILL: 220,752 C.F., 8,176 C.Y.
AREA: 308,297 SQ.FT., 7.1 ACRES

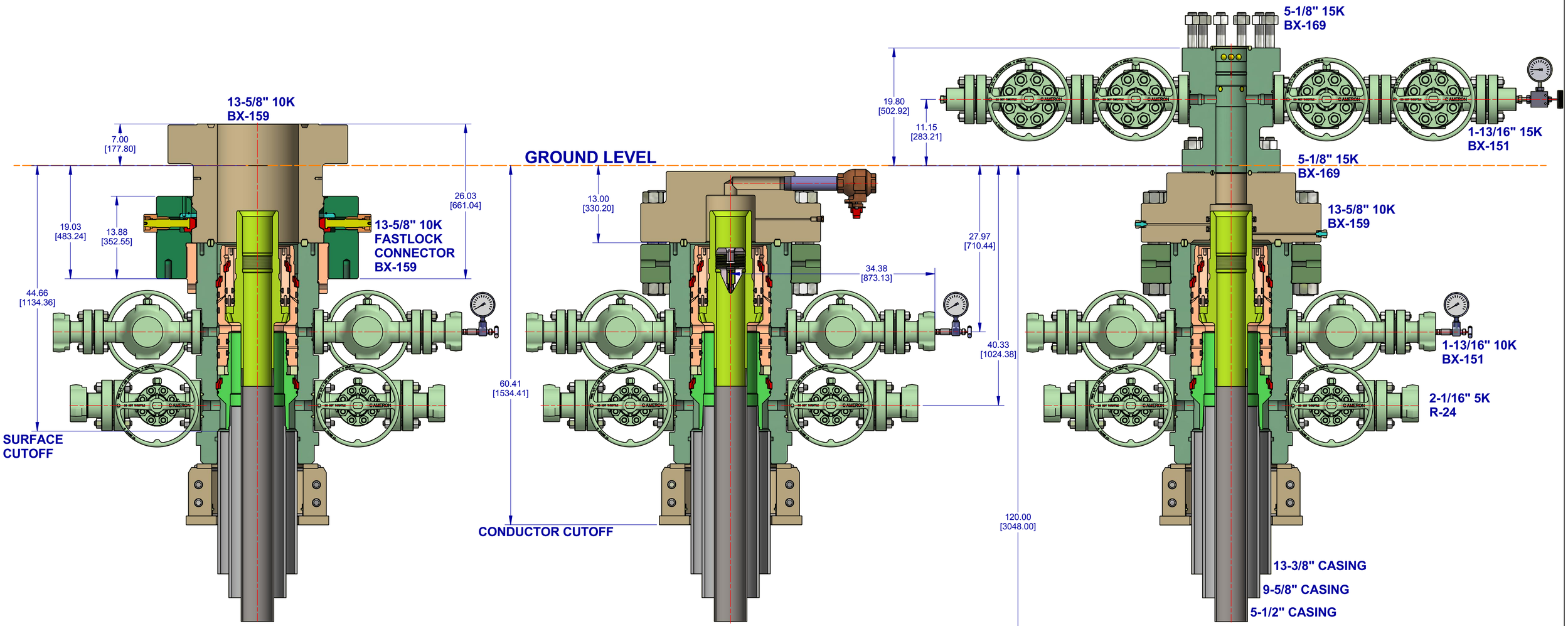
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PREPARED FOR:	eog resources

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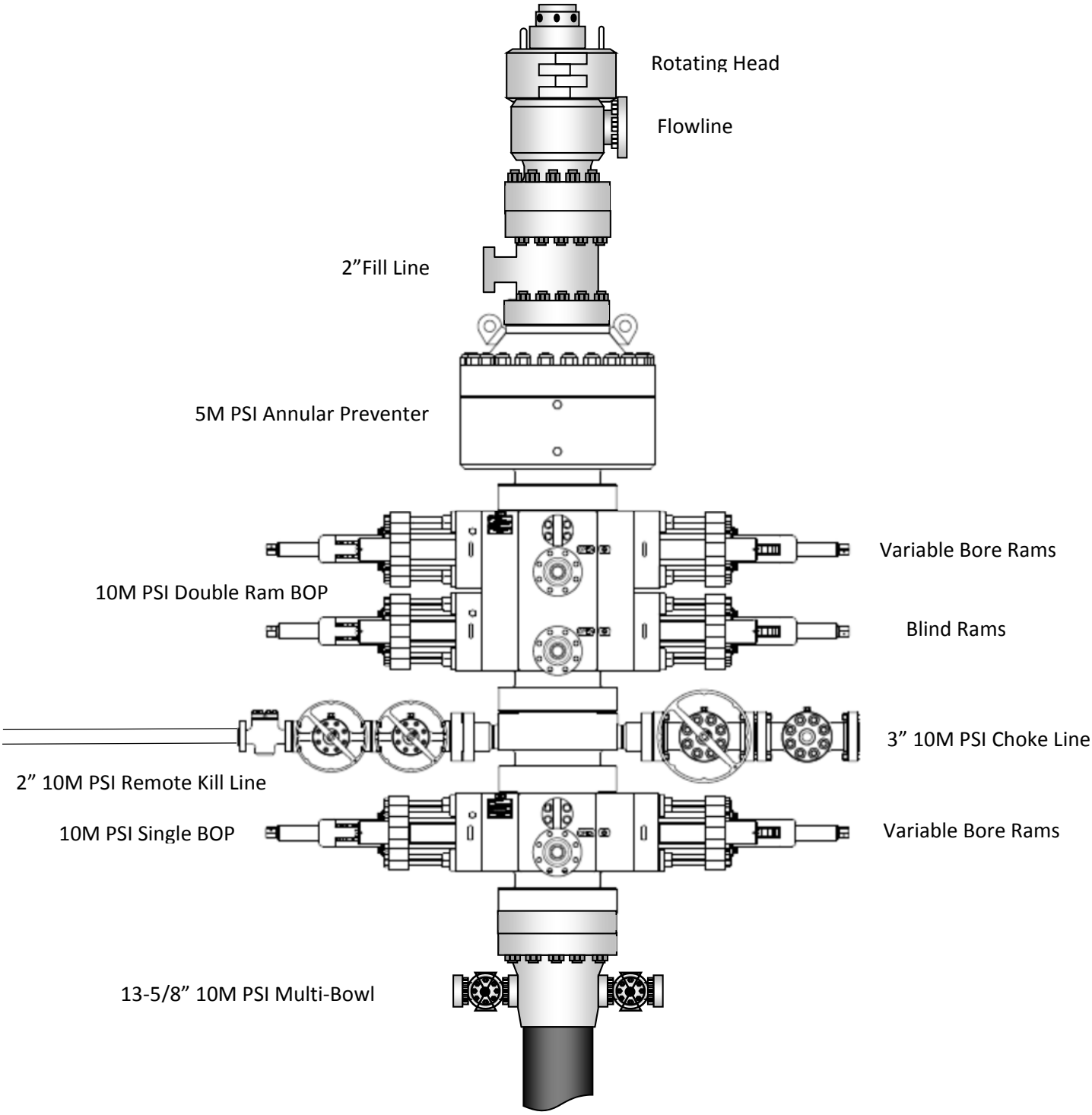


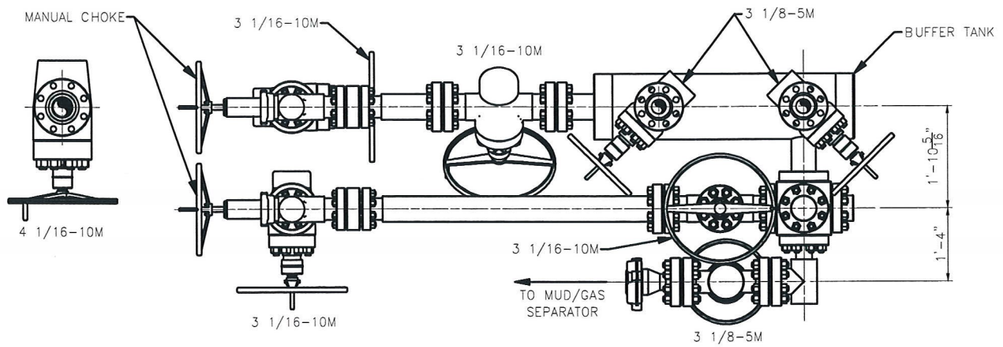
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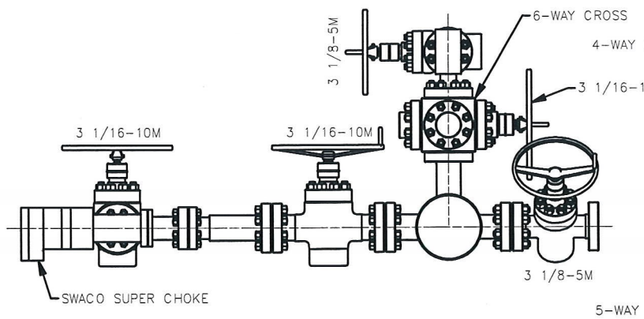
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			MATERIAL & HEAT TREAT	CHECKED BY: PA — DATE: 6 Nov 18	EOG RESOURCES, INC 13-5/8" 10K MN-DS WELLHEAD 13-3/8" X 9-5/8" X 5-1/2"
				APPROVED BY: APPROVER NAME — DATE: 6 Nov 18	
			ESTIMATED WEIGHT:	8147.2 LBS 3695.5 KG	INITIAL USE B/M: EWR:650353762
				SHEET: 1 OF 1	SD-052491-19-07 — REV: 01

INVENTOR - D

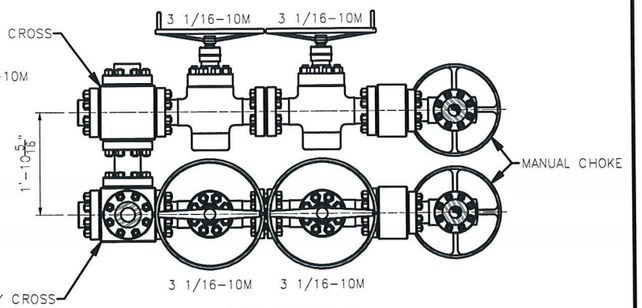
Exhibit 1
EOG Resources
13-5/8” 10M PSI BOP Stack



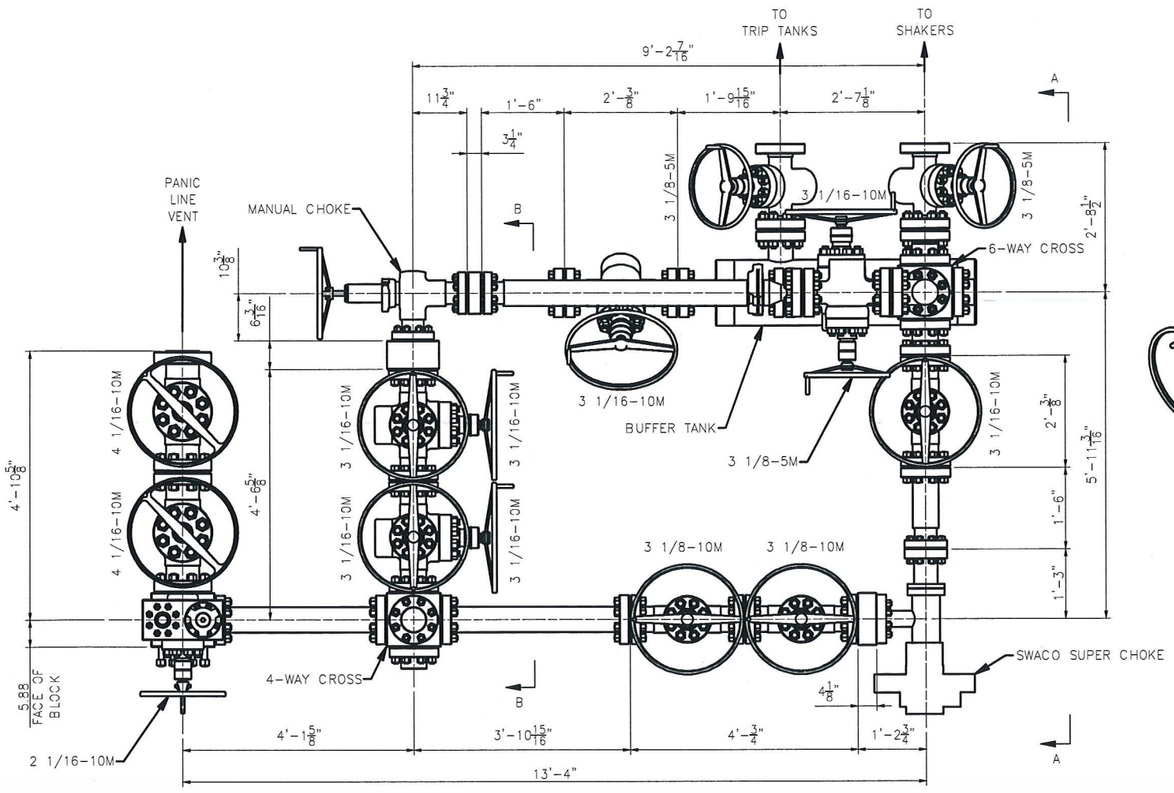




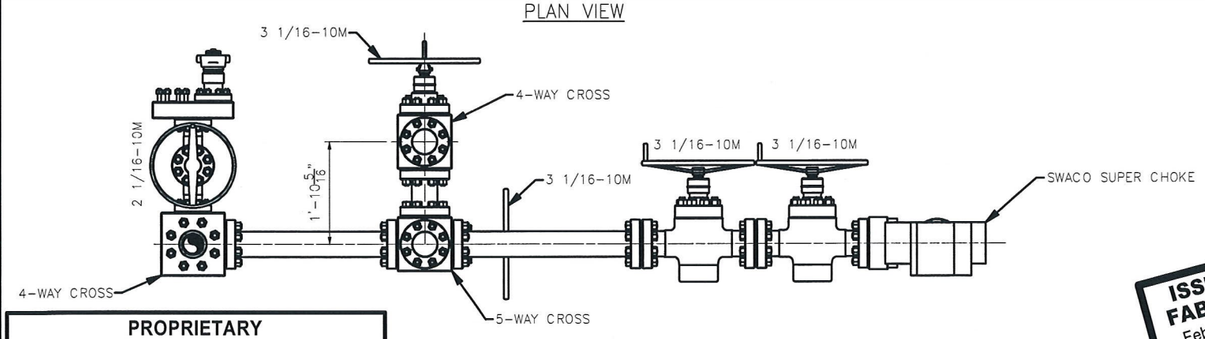
VIEW A-A

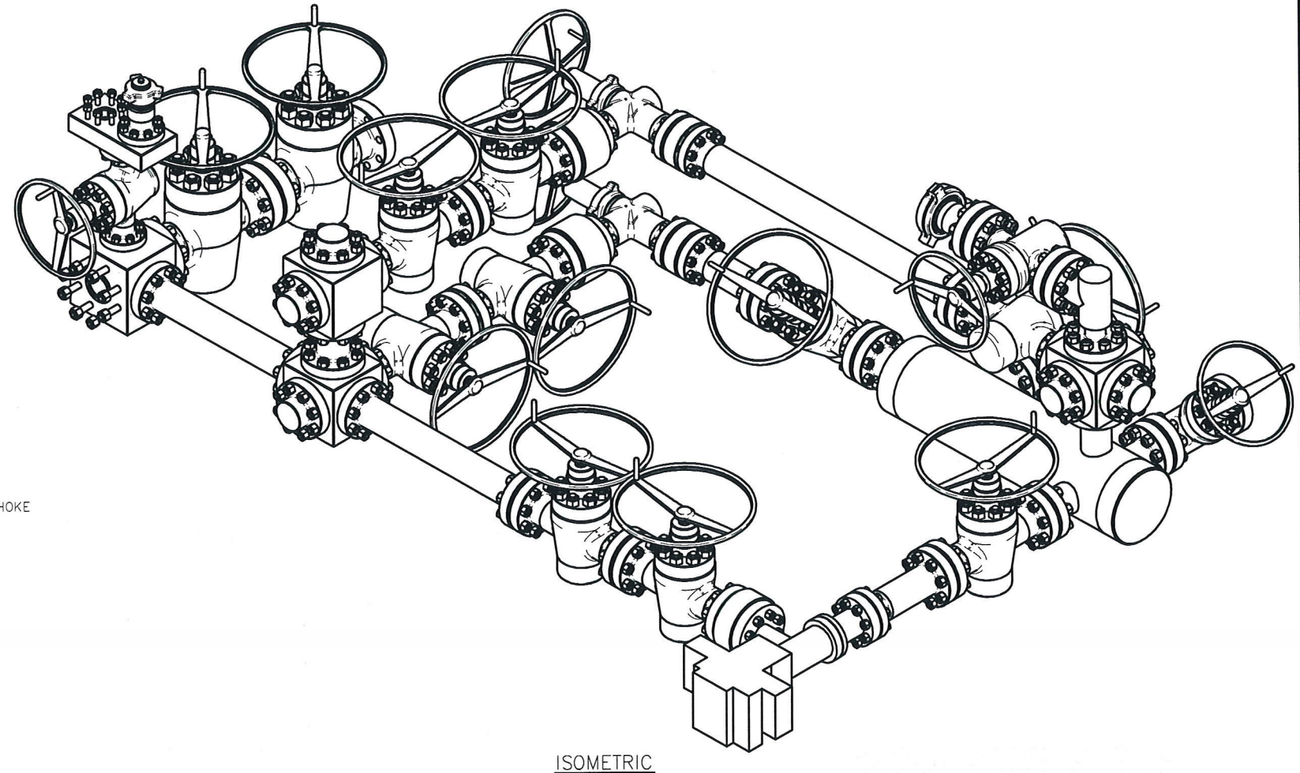


SECTION B-B



PLAN VIEW





ISOMETRIC

PROPRIETARY

THIS DRAWING AND THE IDEAS AND INFORMATION INCLUDED IN THIS DRAWING ARE PROPRIETARY AND ARE NOT TO BE REPRODUCED, DISTRIBUTED OR DISCLOSED IN ANY MANNER,WITHOUT THE PRIOR, WRITTEN CONSENT OF A DULY AUTHORIZED OFFICER OF HELMERICH & PAYNE INT'L DRILLING CO.

ISSUED FOR FABRICATION
February-10-2014
DRAFTSMAN MWL
ENGINEER

STANDARD TOLERANCES
(UNLESS NOTED)

1. FABRICATION DIMENSIONS:	A-0° TO 24°	±1/16"
	B-24° TO 120°	±1/8"
	C-OVER 120°	±1/4"
2. MACHINED DIMENSIONS:	A-ANGULAR	±.30'
	B-LINEAR (EXPRESSED AS FRACTION)	±.015
	LINEAR (EXPRESSED TO ONE DECIMAL)	±.1
	LINEAR (EXPRESSED TO TWO DECIMALS)	±.015
	LINEAR (EXPRESSED TO THREE DECIMALS)	±.005

REV	DATE	DESCRIPTION	BY
—			

HELMERICH & PAYNE
INTERNATIONAL DRILLING CO.

TITLE: 3 CHOKE, 3 LEVEL, 10M CHOKE MANIFOLD G.A.

CUSTOMER: H&P

PROJECT:

DRAWN:	DATE:	DWG. NO.:	REV:
MWL	2/10/2014	HP-D1254	—

SCALE: 3/4"=1'-0" SHEET: 1 OF 1

10,000 PSI BOP Annular
Variance Request (EOG Variance 1c)

EOG Resources request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOP).

1. Component and Preventer Compatibility Tables

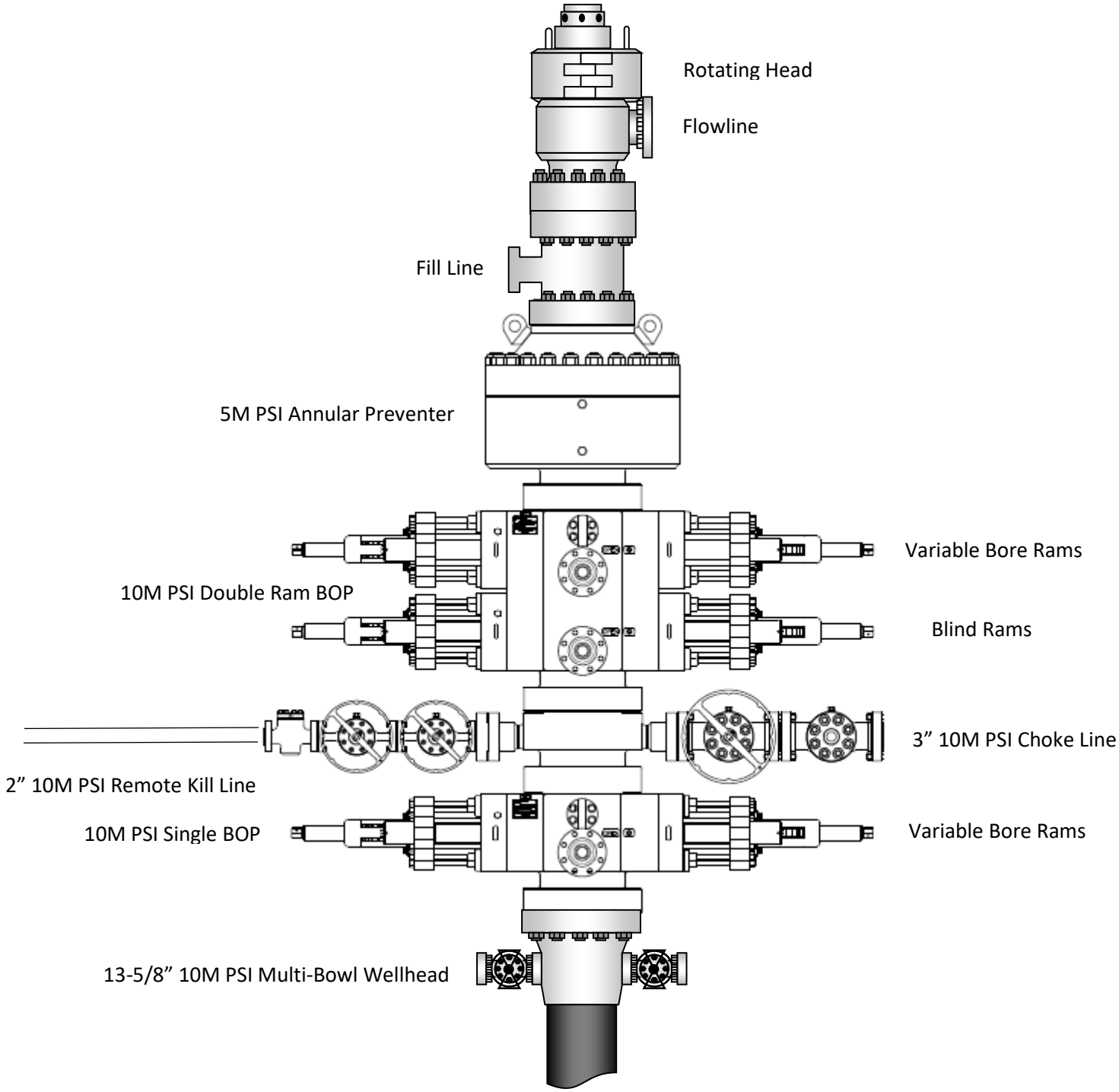
The tables below outlines the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

12-1/4" Intermediate Hole Section 10M psi requirement					
Component	**OD**	**Primary Preventer**	**RWP**	**Alternate Preventer(s)**	**RWP**
Drillpipe	5.000" or 4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
HWDP	5.000" or 4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
Jars	6.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
DCs and MWD tools	6.500" – 8.000"	Annular	5M	-	-
Mud Motor	8.000" – 9.625"	Annular	5M	-	-
1st Intermediate casing	9.625"	Annular	5M	-	-
Open-hole	-	Blind Rams	10M	-	-

8-3/4" Production Hole Section 10M psi requirement					
Component	**OD**	**Primary Preventer**	**RWP**	**Alternate Preventer(s)**	**RWP**
Drillpipe	5.000" or 4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
HWDP	5.000" or 4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
Jars	6.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
DCs and MWD tools	6.500" – 8.000"	Annular	5M	-	-
Mud Motor	6.750" – 8.000"	Annular	5M	-	-
2nd Intermediate casing	7.625"	Annular	5M	-	-
Open-hole	-	Blind Rams	10M	-	-

VBR = Variable Bore Ram

EOG Resources
13-5/8” 10M PSI BOP Stack



2. Well Control Procedures

Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. At least one well control drill will be performed weekly per crew to demonstrate compliance with the procedure and well control plan. The well control drill will be recorded in the daily drilling log. The type of drill will be determined by the ongoing operations, but reasonable attempts will be made to vary the type of drill conducted (pit, trip, open hole, choke, etc.). This well control plan will be available for review by rig personnel in the EOG Resources drilling supervisor's office on location, and on the rig floor. All BOP equipment will be tested as per Onshore O&G Order No. 2 with the exception of the 5000 psi annular which will be tested to 100% of its RWP.

General Procedure While Drilling

1. Sound alarm (alert crew)
2. Space out drill string
3. Shut down pumps (stop pumps and rotary)
4. Shut-in Well (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
    a. SIDPP and SICP
    b. Pit gain
    c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Tripping

1. Sound alarm (alert crew)
2. Stab full opening safety valve and close
3. Space out drill string
4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
    a. SIDPP and SICP
    b. Pit gain
    c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Running Production Casing

1. Sound alarm (alert crew)
2. Stab crossover and full opening safety valve and close
3. Space out string
4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
    a. SIDPP and SICP
    b. Pit gain
    c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure With No Pipe In Hole (Open Hole)

1. Sound alarm (alert crew)
2. Shut-in with blind rams. (HCR and choke will already be in the closed position.)
3. Confirm shut-in
4. Notify toolpusher/company representative
5. Read and record the following:
    a. SICP
    b. Pit gain
    c. Time
6. Regroup and identify forward plan

General Procedures While Pulling BHA thru Stack

1. PRIOR to pulling last joint of drillpipe thru the stack.
    a. Perform flowcheck, if flowing:
    b. Sound alarm (alert crew)
    c. Stab full opening safety valve and close
    d. Space out drill string with tool joint just beneath the upper variable bore rams.
    e. Shut-in using upper variable bore rams. (HCR and choke will already be in the closed position.)
    f. Confirm shut-in
    g. Notify toolpusher/company representative
    h. Read and record the following:
        i. SIDPP and SICP
        ii. Pit gain
        iii. Time
    i. Regroup and identify forward plan

2. With BHA in the stack and compatible ram preventer and pipe combo immediately available.
    a. Sound alarm (alert crew)
    b. Stab crossover and full opening safety valve and close
    c. Space out drill string with upset just beneath the upper variable bore rams.
    d. Shut-in using upper variable bore rams. (HCR and choke will already be in the closed position.)
    e. Confirm shut-in
    f. Notify toolpusher/company representative
    g. Read and record the following:
        i. SIDPP and SICP
        ii. Pit gain
        iii. Time
    h. Regroup and identify forward plan

3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.
    a. Sound alarm (alert crew)
    b. If possible to pick up high enough, pull string clear of the stack and follow “Open Hole” scenario.
    c. If impossible to pick up high enough to pull the string clear of the stack:
    d. Stab crossover, make up one joint/stand of drillpipe, and full opening safety valve and close
    e. Space out drill string with tooljoint just beneath the upper variable bore ram.
    f. Shut-in using upper variable bore ram. (HCR and choke will already be in the closed position.)
    g. Confirm shut-in
    h. Notify toolpusher/company representative
    i. Read and record the following:
        i. SIDPP and SICP
        ii. Pit gain
        iii. Time
    j. Regroup and identify forward plan

Nabors 1210
Choke hose
10-28-22

BLACK GOLD®

GATES ENGINEERING & SERVICES NORTH AMERICA
7603 Prairie Oak Dr.
Houston, TX. 77086

PHONE: +1 (281) 602-4100
FAX: +1 (281) 602-4147
EMAIL: gesna.quality@gates.com
WEB: www.gates.com/oilandgas

CERTIFICATE OF CONFORMANCE

This is to verify that the items detailed below meet the requirements of the Customer's Purchase Order referenced herein, and are in Conformance with applicable specifications, and that Records of Required Tests are on file and subject to examination. The following items were inspected and hydrostatically tested at **Gates Engineering & Services North America** facilities in Houston, TX, USA.

CUSTOMER:	NABORS DRILLING TECHNOLOGIES USA DBA NABORS DRILLING USA
CUSTOMER P.O.#:	15485579 (NABORS PO#15485579 SN 73981ASSET 66-1486)
CUSTOMER P/N:	IMR RETEST SN 73981 ASSET #66-1486
PART DESCRIPTION:	RETEST OF CUSTOMER 3" X 45 FT 16C CHOKE & KILL HOSE ASSEMBLY C/W 4 1/16" 10K FLANGES
SALES ORDER #:	525500
QUANTITY:	1
SERIAL #:	73981 H3-101822-15

SIGNATURE: _____

TITLE: QUALITY ASSURANCE

DATE: 10/18/2022

H3-10667

10/18/2022 11:48:25 AM

TEST REPORT

CUSTOMER

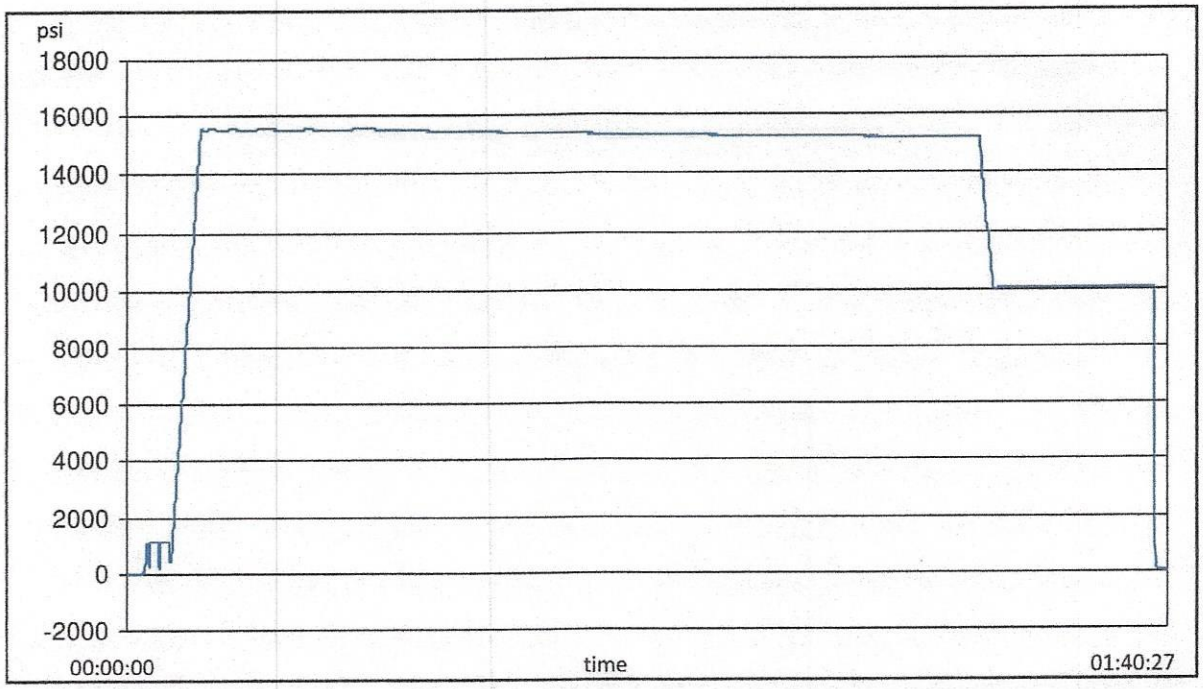
Company:	Nabors Industries Inc.
Production description:	
Sales order #:	525500
Customer reference:	FG0144 NABORS PO#15485579 SN 73981 ASSET 66-1486

TEST INFORMATION

Test procedure:	GTS-04-053	
Test pressure:	15000.00	psi
Test pressure hold:	3600.00	sec
Work pressure:	10000.00	psi
Work pressure hold:	900.00	sec
Length difference:	0.00	%
Length difference:	0.00	inch
Visual check:		
Pressure test result:	PASS	
Length measurement result:		
Test operator:	Martin	

TEST OBJECT

Serial number:	H3-101822-15
Lot number:	
Description:	
Hose ID:	3.0 CK03 16C 10K
Part number:	
Fitting 1:	3.0 x 4-1/16 10K
Part number:	
Description:	
Fitting 2:	3.0 x 4-1/16 10K
Part number:	
Description:	
Length:	45 feet



Filename: D:\Certificates\Report_101822-H3-101822-15.pdf

H3-10667

10/18/2022 11:48:25 AM

TEST REPORT

GAUGE TRACEABILITY

Description	Serial number	Calibration date	Calibration due date
S-25-A-W	110AMCL2	2022-01-10	2023-01-10
S-25-A-W	110APO2K	2022-01-10	2023-01-10

Comment

Certificate of Authority to use the Official API Monogram

License Number: 7K-0519

ORIGINAL

The American Petroleum Institute hereby grants to

GATES ENGINEERING AND SERVICES
7603 Prairie Oak Drive, Suite 190
Houston, TX
United States

the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1® and **API-7K** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: **7K-0519**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following: High Pressure Mud and Cement Hoses at FSL 0, at FSL 1, at FSL 2

QMS Exclusions: Servicing

Effective Date: DECEMBER 18, 2021
Expiration Date: DECEMBER 18, 2024

To verify the authenticity of this license, go to www.api.org/compositelist.

Vice President of Product Management

American Petroleum Institute

2018-151 | Digital

Certificate of Authority to use the Official API Monogram

License Number: 16C-0485 **ORIGINAL**

The American Petroleum Institute hereby grants to

GATES ENGINEERING AND SERVICES
7603 Prairie Oak Drive, Suite 190
Houston, TX
United States

the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1® and **API-16C** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: **16C-0485**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following: Flexible Choke and Kill Lines atFSL 0, FSL 1, FSL 2, FSL 3

QMS Exclusions: Servicing

Effective Date: DECEMBER 18, 2021
Expiration Date: DECEMBER 18, 2024

To verify the authenticity of this license, go to www.api.org/compositelist.

Vice President of Product Management

®
American Petroleum Institute

AMERICAN PETROLEUM INSTITUTE CORPORATE SEAL INCORPORATED 1919

2018-151 | Digital

American Petroleum Institute

REGISTRATION NO. Q1-3650

Certificate of Registration

The American Petroleum Institute certifies that the quality management system of

GATES ENGINEERING AND SERVICES
7603 Prairie Oak Drive, Suite 190
Houston, TX
United States

has been assessed by the American Petroleum Institute and found to be in conformance with the following:

API Spec Q1, 9th Edition

The scope of this registration and the approved quality management system applies to the:

Assembly and Pressure Test of High Pressure Mud and Cement Hoses, Flexible Choke and Kill Lines, and General Rubber Hydraulic Hose Assemblies

API approves the organization's justification for excluding:

Servicing

API Spec Q1 Registered ®

Effective Date: **DECEMBER 18, 2021**
Expiration Date: **DECEMBER 18, 2024**
Registered Since: **DECEMBER 18, 2018**

Vice President of Product Management

This certificate is valid for the period specified herein. The registered organization must continually meet all requirements of API Spec Q1, *Specification for Quality Management System Requirements for Manufacturing Organizations for the Petroleum and Natural Gas Industry,* and the requirements of the Registration Agreement. Registration is maintained and regularly monitored through annual full system audits. This certificate has been issued from API offices located at 200 Massachusetts Avenue, NW Suite 1100, Washington, DC 20001-5571, U.S.A. It is the property of API, and must be returned upon request.
To verify the authenticity of this certificate, go to www.api.org/compositelist.

2021-164 | 10.21 | Digital

eog resources

EOG Batch Casing

Pad Name: Grackle 26 East Fed Com
SHL: Section 35, Township 24-S, Range 34-E, Lea County, NM

EOG requests for the below wells to be approved for all four designs listed in the Blanket Casing Design ('EOG BLM Variance 5a - Alternate Shallow Casing Designs.pdf' OR 'EOG BLM Variance 5b - Alternate Deep Casing Designs.pdf') document. The MDs and TVDs for all intervals are within the boundary conditions. The max inclination and DLS are also within the boundary conditions.
The directional plans for the wells are attached separately.

Well Name	API #	Surface		Intermediate		Production	
		MD	TVD	MD	TVD	MD	TVD
Grackle 26 East Fed Com #101H	30-025-*****	1,120	1,120	5,150	5,080	19,861	9,587
Grackle 26 East Fed Com #102H	30-025-*****	1,120	1,120	5,123	5,080	19,848	9,587
Grackle 26 East Fed Com #103H	30-025-*****	1,120	1,120	5,105	5,080	19,843	9,587
Grackle 26 East Fed Com #201H	30-025-*****	1,120	1,120	5,151	5,080	20,348	10,103
Grackle 26 East Fed Com #202H	30-025-*****	1,120	1,120	5,127	5,080	20,368	10,103
Grackle 26 East Fed Com #203H	30-025-*****	1,120	1,120	5,110	5,080	20,364	10,103
Grackle 26 East Fed Com #301H	30-025-*****	1,120	1,120	5,152	5,080	20,923	10,647
Grackle 26 East Fed Com #302H	30-025-*****	1,120	1,120	5,108	5,080	20,898	10,647
Grackle 26 East Fed Com #303H	30-025-*****	1,120	1,120	5,132	5,080	20,917	10,647
Grackle 26 East Fed Com #304H	30-025-*****	1,120	1,120	5,178	5,080	20,956	10,647
Grackle 26 East Fed Com #305H	30-025-*****	1,120	1,120	5,129	5,080	20,926	10,647
Grackle 26 East Fed Com #401H	30-025-*****	1,120	1,120	5,147	5,080	20,918	10,647
Grackle 26 East Fed Com #402H	30-025-*****	1,120	1,120	5,140	5,080	21,069	10,791
Grackle 26 East Fed Com #403H	30-025-*****	1,120	1,120	5,144	5,080	21,086	10,791
Grackle 26 East Fed Com #501H	30-025-*****	1,120	1,120	5,149	5,080	21,673	11,400
Grackle 26 East Fed Com #502H	30-025-*****	1,120	1,120	5,149	5,080	21,686	11,400
Grackle 26 East Fed Com #503H	30-025-*****	1,120	1,120	5,153	5,080	21,703	11,400
Grackle 26 East Fed Com #591H	30-025-*****	1,120	1,120	5,151	5,080	22,030	11,755
Grackle 26 East Fed Com #592H	30-025-*****	1,120	1,120	5,167	5,080	22,058	11,755
Grackle 26 East Fed Com #593H	30-025-*****	1,120	1,120	5,155	5,080	22,059	11,755

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EOG Batch Casing

Variances

EOG requests the additional variance(s) in the attached document(s):

- EOG BLM Variance 3a_b - BOP Break-test and Offline Intermediate Cement
- EOG BLM Variance 4a - Salt Section Annular Clearance
- EOG BLM Variance 5a - Alternate Shallow Casing Designs

eog resources

EOG Batch Casing

GEOLOGIC NAME OF SURFACE FORMATION:

Permian

ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	989'
Tamarisk Anhydrite	1,094'
Top of Salt	1,559'
Base of Salt	4,976'
Lamar	5,244'
Bell Canyon	5,272'
Cherry Canyon	6,209'
Brushy Canyon	7,702'
Bone Spring Lime	9,078'
Leonard (Avalon) Shale	9,429'
1st Bone Spring Sand	10,461'
2nd Bone Spring Shale	10,692'
2nd Bone Spring Sand	10,984'
3rd Bone Spring Carb	11,492'
3rd Bone Spring Sand	12,019'
Wolfcamp	12,320'

ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	0- 400’	Fresh Water
Bell Canyon	5,272'	Oil
Cherry Canyon	6,209'	Oil
Brushy Canyon	7,702'	Oil
Leonard (Avalon) Shale	9,429'	Oil
1st Bone Spring Sand	10,461'	Oil
2nd Bone Spring Shale	10,692'	Oil
2nd Bone Spring Sand	10,984'	Oil

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting surface casing at 1,120' and circulating cement back to surface.

eog resources

Title 43 CFR Part 3170 - OO II Language Replacement

Any language referencing Onshore Order II (OO II) in any document associated with this well now references Title 43 CFR Part 3170.

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

SUPO Data Report
03/23/2026

APD ID: 10400079840
Submission Date: 08/30/2021
Operator Name: EOG RESOURCES INCORPORATED
Well Name: GRACKLE 23 EAST FED COM
Well Number: 501H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes
Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

2_Grackle_23_East_Fed_Com_Vicinity_Map_501H_20210830110928.pdf

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

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

EP_GRACKLE_23_EAST_FC_ACCESS_ROAD_SEC_26_20210827082203.pdf
EP_GRACKLE_23_EAST_FC_ACCESS_ROAD_SEC_23_20210827082204.pdf

New road type: RESOURCE

Length: 425 Feet
Width (ft.): 30

Max slope (%): 2
Max grade (%): 20

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 24

New road access erosion control: Newly constructed or reconstructed roads will be constructed as outlined in the BLM "Gold Book" and to meet the standards of the anticipated traffic flow and all anticipated weather requirements as needed. Construction will include ditching, draining, crowning and capping or sloping and dipping the roadbed as necessary to provide a well-constructed and safe road.
New road access plan or profile prepared? N

Operator Name: EOG RESOURCES INCORPORATED

Well Name: GRACKLE 23 EAST FED COM **Well Number:** 501H

New road access plan

Access road engineering design? N

Access road engineering design

Turnout? N

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: 6 of Compacted Caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: An adequate amount of topsoil/root zone (usually top 6 inches of soil) will be stripped from the proposed well location and stockpiled along the side of the well location as depicted on the well site diagram/survey plat.

Access other construction information:

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Other Description: None

Drainage Control comments: No Drainage crossings

Road Drainage Control Structures (DCS) description: N/A

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Existing Well map Attachment:

3_Grackle_23_East_Fed_Com_Radius_Map_501H_20210830111418.pdf

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: GRACKLE 23 EAST FED COM CTB IS LOCATED IN THE SE/4 OF SEC23

Production Facilities map:

Operator Name: EOG RESOURCES INCORPORATED

Well Name: GRACKLE 23 EAST FED COM **Well Number:** 501H

EP_GRACKLE_23_EAST_FC_WATER_CTB_700_SEC23_PRIVATE_20210827082636.pdf
EP_GRACKLE_23_EAST_FC_WATER_CTB_700_SEC27_BLM_20210827082636.pdf
GRACKLE_23_EAST_FC_Infrastructure_PH1_20210827082636.pdf
Grackle23East_700CTB_CutFill_20210827082653.pdf
Grackle23East_PadA_CutFill_20210827082653.pdf
EP_GRACKLE_23_EAST_FC_ELECTRIC_CTB_700_SEC27_BLM_20210827082602.pdf
BO_GRACKLE_23_EAST_FC_CTB_700_SITE_20210827082547.pdf
EP_GRACKLE_23_EAST_FC_ELECTRIC_CTB_700_SEC22_PRIVATE_R1_20210827082601.pdf
EP_GRACKLE_23_EAST_FC_ELECTRIC_CTB_700_SEC27_PRIVATE_R1_20210827082602.pdf
EP_GRACKLE_23_EAST_FC_FL_SEC23__20210827082602
EP_GRACKLE_23_EAST_FC_ELECTRIC_CTB_700_SEC23_BLM_20210827082602.pdf
EP_GRACKLE_23_EAST_FC_ELECTRIC_CTB_700_SEC23_PRIVATE_20210827082602.pdf
EP_GRACKLE_23_EAST_FC_FL_SEC23_DETAIL_20210827082634.pdf
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EP_GRACKLE_23_EAST_FC_WATER_CTB_700_SEC23_BLM_20210827082636.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: RECYCLED

Water source use type: OTHER

Describe use type: Water will be supplied from the frac
water source map. Temporary surface lines may be app
they are on or off lease) or Sundry Notice if they are ent
approved under an APD or Sundry Notice are not requi
authorization outlined in the Temporary Surface Lines fo
Completions Operations policy but should adhere to not
requirements. EOG plans to utilize up to six 4-inch polye
purpose of transporting freshwater. Freshwater is define

Operator Name: EOG RESOURCES INCORPORATED

Well Name: GRACKLE 23 EAST FED COM **Well Number:** 501H

OTHER

mg/l Total Dissolved Solids (TDS), exhibiting no petrole
previously used in mechanical processes that expose it
toxins. EOG plans to utilize up to six 12-inch layflat lines
treated produced water being defined as the recondition
form and may include mechanical and chemical process
Resources, Inc., McCloy Frac Pond located in Section 3
Lea County, New Mexico. Treated Produced Water Sou
Klondike Reuse Pit located in Section 32, Township 24-
Mexico. Temporary surface lines would originate from a
multiple water source locations in the surrounding area
temporarily laid above ground with minimal disturbance.
laid no more than 10 feet from the edge of the existing c
ditch, road surface or two-track road or other man-made
off arm or other mechanism will be used. All vehicle equ
existing disturbance. Temporary surface line(s) must be
lines(s). The label should include, at a minimum, the na
phone number, line content (fresh water or treated prod
placed at beginning, ending and every mile in between.
monitoring of all temporary surface water lines while in s
adequately detect leaks or other impacts in a timely ma
any issues to the BLM. Map or maps showing the locati
will be provided with the APD and will be included in the
Electronic map file (shape file or KMZ file) shall be subm
Assessment.

Source latitude:

Source longitude:

Source datum:

City:

Water source permit type: WATER RIGHT

Water source transport method: PIPELINE

TRUCKING

Source land ownership: FEDERAL

Source transportation land ownership: FEDERAL

Water source volume (barrels): 1

Source volume (acre-feet): 0.00012889

Source volume (gal): 42

Water source and transportation

Grackle_23_Fed_Com_Water_Map_20250415073747.pdf

Water source comments:

New water well? N

New Water Well Info

Operator Name: EOG RESOURCES INCORPORATED

Well Name: GRACKLE 23 EAST FED COM **Well Number:** 501H

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

Well target aquifer:

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

Aquifer comments:

Aquifer documentation:

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

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

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

Drilling method: **Drill material:**

Grout material: **Grout depth:**

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

Well Production type: **Completion Method:**

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: Caliche will be supplied from pits shown on the attached caliche source map. Caliche utilized for the drilling pad will be obtained either from an existing approved mineral pit, or by benching into a hill, which will allow the pad to be level with existing caliche from the cut, or extracted by Flipping the well location. A mineral material permit will be obtained from BLM prior to excavating any caliche on Federal Lands. Amount will vary for each pad. The procedure for Flipping a well location is as follows: * -An adequate amount of topsoil/root zone (usually top 6 inches of soil) will be stripped from the proposed well location and stockpiled along the side of the well location as depicted on the well site diagram/survey plat. -An area will be used within the proposed well site dimensions to excavate caliche. Subsoil will be removed and stockpiled within the surveyed well pad dimensions. -Once caliche/surfacing mineral is found, the mineral material will be excavated and stock piled within the approved drilling pad dimensions. -Then, subsoil will be pushed back in the excavated hole and caliche will be spread accordingly across the entire well pad and road (if available). -Neither caliche, nor subsoil will be stock piled outside of the well pad dimensions. Topsoil will be stockpiled along the edge of the pad as depicted in the Well Site Layout or survey plat. * In the event that no caliche is found onsite, caliche will be hauled in from a BLM approved caliche pit or other established mineral pit. A BLM mineral material permit will be acquired prior to obtaining any mineral material from BLM pits or federal land.

Construction Materials source location

Grackle_23_Fed_Com_Caliche_Map_20250415073802.pdf

Operator Name: EOG RESOURCES INCORPORATED

Well Name: GRACKLE 23 EAST FED COM **Well Number:** 501H

Section 7 - Methods for Handling

Waste type: DRILLING

Waste content description: Drilling fluids and produced oil and water from the well during drilling and completion operations will be stored onsite in frac tanks and disposed of at the time of rig down. Primary disposal location for EOGs NM operations is the North Delaware Basin Disposal facility in Jal, New Mexico which is a privately owned commercial facility. Some EOG locations within New Mexico may require transportation of cuttings to other licensed commercial disposal facilities based on geographic location.
Amount of waste: 0 barrels

Waste disposal frequency : Daily

Safe containment description: STEEL TANKS

Safe containmant attachment:

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

Disposal location description: NORTH DELAWARE BASIN DISPOSAL FACILITY IN JAL, NM

Waste type: SEWAGE

Waste content description: GREY WATER

Amount of waste:

Waste disposal frequency : Weekly

Safe containment description: Human waste managed by third-party vendors. ROW construction waste contained in on-site portable toilets maintained by third party vendor. During drilling activities waste is managed by third party vendor utilizing onsite aerobic (treatment) wastewater management. Liquids treated through the aerobic system are transferred to via water line to CTBs for reuse by EOG. All solid waste remaining after treatment process are pumped into an enclosed waste transfer truck at the time of rig down and taken to one of the following disposal facilities by the thirdparty vendor: Qual Run Services LLC (a Licensed Waste Management Service Facility in Reeves County, Texas) or ReUse OilField Services (a Licensed Waste Management Facility in Mentone, TX)

Safe containmant attachment:

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

Disposal location description: Qual Run Services LLC (a Licensed Waste Management Service Facility in Reeves County, Texas) or ReUse OilField Services (a Licensed Waste Management Facility in Mentone, TX)

Waste type: GARBAGE

Waste content description: TRASH GENERATED ONSITE

Amount of waste:

Waste disposal frequency : Weekly

Safe containment description: ENCLOSED DUMPSTERS

Safe containmant attachment:

Operator Name: EOG RESOURCES INCORPORATED

Well Name: GRACKLE 23 EAST FED COM **Well Number:** 501H

Waste disposal type: OTHER **Disposal location ownership:** OTHER

Disposal type description: LEA CO NM LANDFILL

Disposal location description: Trash dumpsters are utilized to contain garbage onsite. Dumpsters are maintained by a thirdparty vendor. All trash is hauled to Lee County, NM landfill.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

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

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

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? Y

Description of cuttings location EOG utilizes a Closed Loop System, cuttings leave the rig and enter low/highwall cuttings bin. Cuttings are then transferred to trucks for transportation to a State of New Mexico approved disposal facility. Primary disposal location for EOGs NM operations is the North Delaware Basin Disposal Facility in Jal, New Mexico which is a privately owned commercial facility. Some EOG locations within New Mexico may require transportation of cuttings to other licensed commercial disposal facilities based on geographic location.

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

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

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

Cuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Operator Name: EOG RESOURCES INCORPORATED

Well Name: GRACKLE 23 EAST FED COM **Well Number:** 501H

Section 9 - Well Site

Well Site Layout Diagram:

Grackle_23_East_Fed_Com_501H_Rig_Layout_20210830114352.pdf

5_Grackle_23_East_Fed_Com_Padsite_501H_20210830114502.pdf

4_Grackle_23_East_Fed_Com_WLE_501H_20210830114502.pdf

Grackle23East_PadA_CutFill_20210827083058.pdf

Comments: Exhibit 2A-Wellsite, Exhibit 2B-Padsite, Exhibit 4-Rig Layout Cut/Fill 6, 6A & 6B attached

Section 10 - Plans for Surface

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: GRACKLE 23 EAST FED COM

Multiple Well Pad Number: 101H/201H/301H/401H/501H/591H/701H/731H

Recontouring

6_Grackle_23_East_Fed_Com_Reclamation_Diagram_501H_20210830114535.pdf

Drainage/Erosion control construction: Proper erosion control methods will be used on the area to control erosion, runoff, and siltation of the surrounding area.

Drainage/Erosion control reclamation: The interim reclamation will be monitored periodically to ensure that vegetation has reestablished and that erosion is controlled.

Well pad proposed disturbance (acres): 0	**Well pad interim reclamation (acres):** 0	**Well pad long term disturbance (acres):** 0
Road proposed disturbance (acres): 0	**Road interim reclamation (acres):** 0	**Road long term disturbance (acres):** 0
Powerline proposed disturbance (acres): 0	**Powerline interim reclamation (acres):** 0	**Powerline long term disturbance (acres):** 0
Pipeline proposed disturbance (acres): 0	**Pipeline interim reclamation (acres):** 0	**Pipeline long term disturbance (acres):** 0
Other proposed disturbance (acres): 0	**Other interim reclamation (acres):** 0	**Other long term disturbance (acres):** 0
Total proposed disturbance: 0	**Total interim reclamation:** 0	**Total long term disturbance:** 0

Disturbance Comments: All Interim and Final reclamation must be within 6 months. Interim must be within 6 months of completion and final within 6 months of abandonment plugging. Dual pad operations may alter timing.

Reconstruction method: In areas planned for interim reclamation, all the surfacing material will be removed and returned to the original mineral pit or recycled to repair or build roads and well pads. Areas planned for interim reclamation will be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.

Topsoil redistribution: Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations including cuts and fills. To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

Soil treatment: Re-seed according to BLM standards. All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, and that erosion is controlled.

Operator Name: EOG RESOURCES INCORPORATED

Well Name: GRACKLE 23 EAST FED COM **Well Number:** 501H

Existing Vegetation at the well pad: Grass, forbs, and small woody vegetation, such as mesquite will be excavated as the topsoil is removed. Large woody vegetation will be stripped and stored separately and respreads evenly on the site following topsoil respreading. Topsoil depth is defined as the top layer of soil that contains 80% of the roots. In areas to be heavily disturbed, the top 6 inches of soil material, will be stripped and stockpiled on the perimeter of the well location and along the perimeter of the access road to control run-on and run-off, to keep topsoil viable, and to make redistribution of topsoil more efficient during interim reclamation. Stockpiled topsoil should include vegetative material. Topsoil will be clearly segregated and stored separately from subsoils.

Existing Vegetation at the well pad

Existing Vegetation Community at the road: All disturbed areas, including roads, pipelines, pads, will be recontoured to the contour existing prior to the initial construction or a contour that blends indistinguishably with the surrounding landscape. Topsoil that was spread over the interim reclamation areas will be stockpiled prior to recontouring. The topsoil will be redistributed evenly over the entire disturbed site to ensure successful revegetation.

Existing Vegetation Community at the road

Existing Vegetation Community at the pipeline: All disturbed areas, including roads, pipelines, pads, will be recontoured to the contour existing prior to the initial construction or a contour that blends indistinguishably with the surrounding landscape. Topsoil that was spread over the interim reclamation areas will be stockpiled prior to recontouring. The topsoil will be redistributed evenly over the entire disturbed site to ensure successful revegetation.

Existing Vegetation Community at the pipeline

Existing Vegetation Community at other disturbances: All disturbed areas, including roads, pipelines, pads, will be recontoured to the contour existing prior to the initial construction or a contour that blends indistinguishably with the surrounding landscape. Topsoil that was spread over the interim reclamation areas will be stockpiled prior to recontouring. The topsoil will be redistributed evenly over the entire disturbed site to ensure successful revegetation.

Existing Vegetation Community at other disturbances

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Operator Name: EOG RESOURCES INCORPORATED

Well Name: GRACKLE 23 EAST FED COM **Well Number:** 501H

Seed

Seed Table

Seed Summary

Total pounds/Acre:

Seed Type	Pounds/Acre

Seed reclamation

Operator Contact/Responsible Official

First Name: **Last Name:**

Phone: **Email:**

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment

Weed treatment plan description: All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, erosion is controlled, and free of noxious weeds. Weeds will be treated if found.

Weed treatment plan

Monitoring plan description: Reclamation will be completed within 6 months of well plugging. All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, erosion is controlled, and free of noxious weeds.

Monitoring plan

Success standards: N/A

Pit closure description: N/A

Pit closure attachment:

Section 11 - Surface

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

Operator Name: EOG RESOURCES INCORPORATED

Well Name: GRACKLE 23 EAST FED COM **Well Number:** 501H

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

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

Section 12 - Other

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

ROW Type(s):

ROW

SUPO Additional Information: Onsite conducted 12/18/2020 & 1/8/21 See attached SUPO Plan.

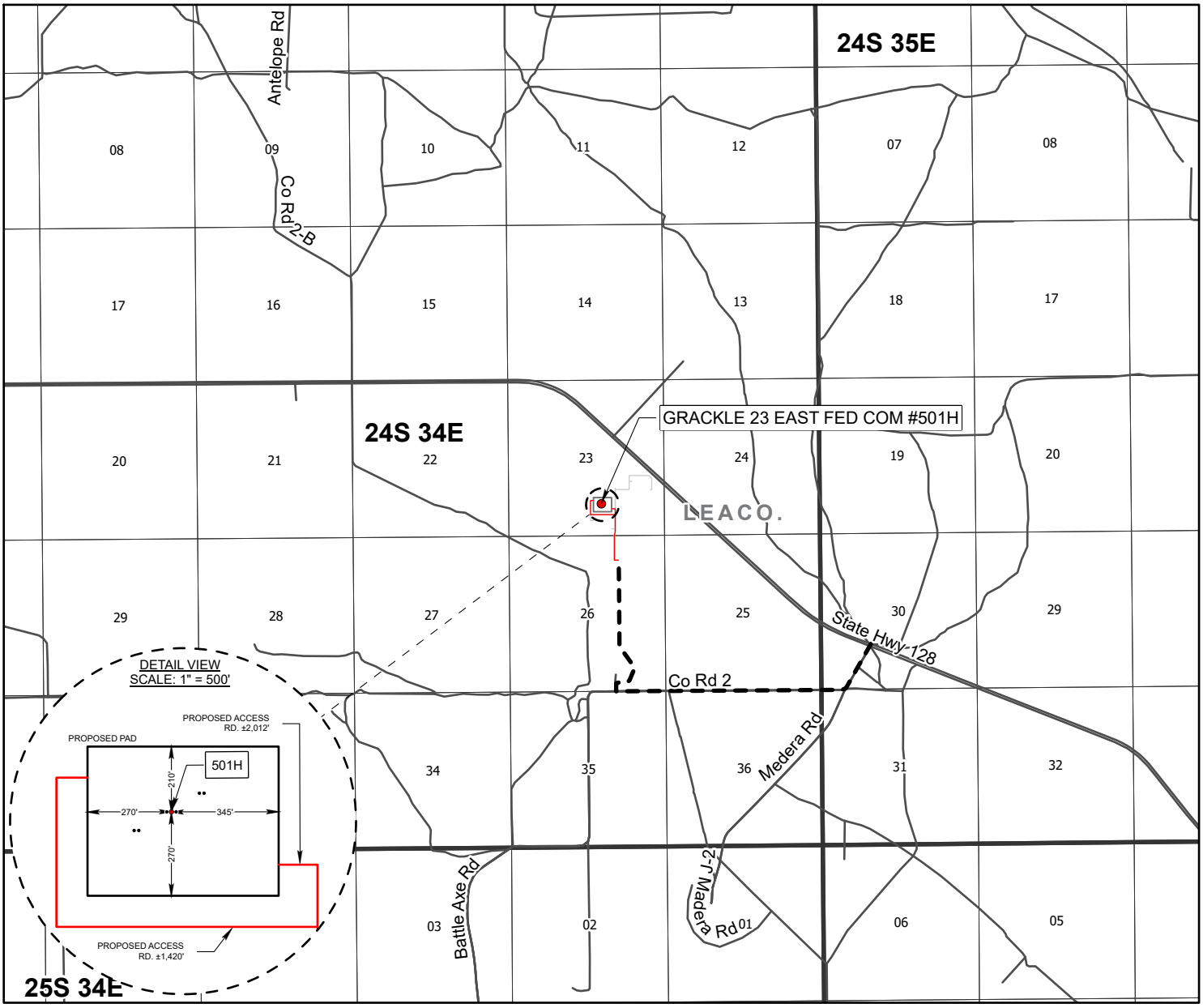
Use a previously conducted onsite? N

Previous Onsite information:

Other SUPO

1_Grackle_23_East_Fed_Com_L_and_E_Map_501H_20210830114643.pdf
REV_SUPO_GRACKLE_23_EAST_FED_COM_501H_20241022124402.pdf

EXHIBIT 2
VICINITY MAP



LEASE NAME & WELL NO.: GRACKLE 23 EAST FED COM #501H
LATITUDE: N 32.19875 LONG: W 103.43911 ELEVATION: 3452'

SECTION: 23 TWP: 24S RGE: 34E SURVEY: N.M.P.M.
COUNTY: LEA STATE: NM

DESCRIPTION: 1082' FSL & 2136' FEL

DISTANCE & DIRECTION:
FROM THE INTERSECTION OF NEW MEXICO STATE ROAD 128 AND COUNTY ROAD 2, GO SOUTHWEST ON COUNTY ROAD 2 ±0.32 MILES, THENCE WEST (RIGHT) TO STAY ON COUNTY ROAD 2 ±1.48 MILES, THENCE NORTH (RIGHT) ON A LEASE ROAD ±0.95 MILES; THENCE WEST (LEFT) ON A PROPOSED ROAD ±0.36 MILES; THENCE WEST (LEFT) ON A PROPOSED ROAD ±125 FEET TO THE EDGE OF PAD.
(PROPOSED ACCESS ROAD LENGTH = 2012')

- Proposed Well
- Proposed Access Road
- Proposed Pad
- Road
- Section
- Township

eog resources

JOB No.: EOG__B200054

NOTE:
ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE FOLLOWING COORDINATE SYSTEM: NAD83 NEW MEXICO STATE PLANE, EAST ZONE, U.S. SURVEY FEET

DISCLAIMER:
THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY AND SHOULD NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES, PROPERTY OWNERSHIP OR OTHER PROPERTY INTERESTS.

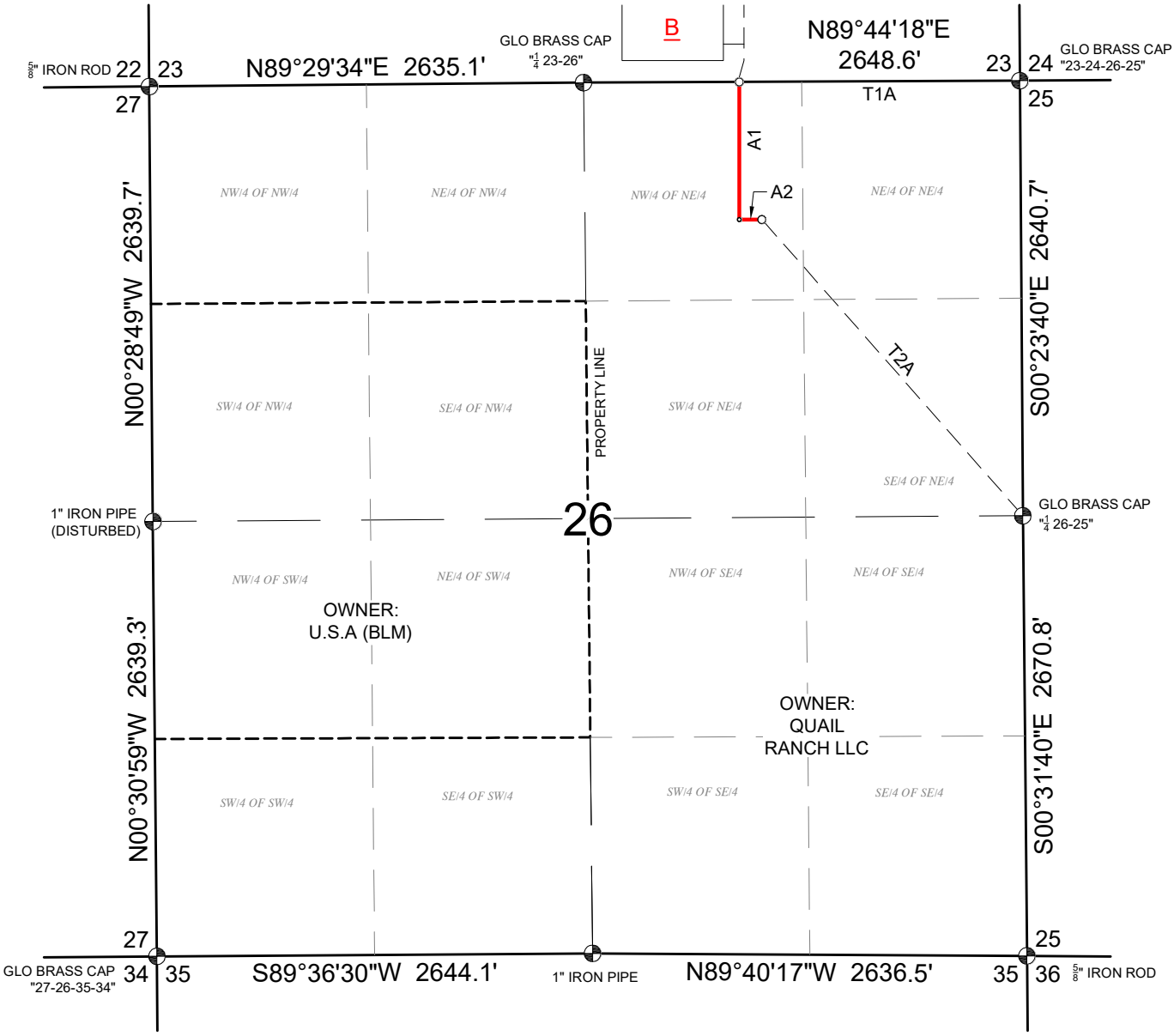
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SCALE: 1"=1 MI.

ASCENT
GEOMATICS SOLUTIONS
2057 COMMERCE DRIVE,
MIDLAND, TEXAS 79703
OFFICE: (432) 756-5680
WWW.ASCENTGEOMATICS.COM

SECTION 26, TOWNSHIP 24 SOUTH, RANGE 34 EAST,
LEA COUNTY, NEW MEXICO



GRACKLE 23 EAST FC ACCESS ROAD

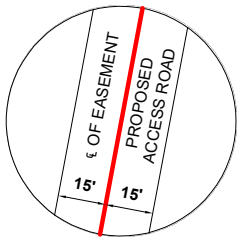
CENTERLINE DESCRIPTION

A STRIP OF LAND 30 FEET IN WIDTH AND 973.2 FEET, 58.9 RODS OR 0.18 MILES IN LENGTH, SITUATED IN THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 26, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AS CONVEYED TO QUAIL RANCH LLC, AND BEING 15 FEET LEFT AND 15 FEET RIGHT OF THE SURVEY OF CENTERLINE AS SHOWN HEREON.

- ACCESS ROAD
- POINT FOR CORNER
- POINT FOR BEGIN/END
- FOUND MONUMENT AS SHOWN
- CALCULATED CORNER

NOTES:
- BEARINGS, COORDINATES, AND DISTANCES SHOWN HEREON ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83- 2011 (EPOCH 2010) FRAMEWORK, AS DERIVED BY OPUS SOLUTION.
- LAND OWNERSHIP INFORMATION REFLECTED HEREON WAS PROVIDED BY CLIENT AND/OR OBTAINED FROM PUBLIC DOMAIN DATA, NO INDEPENDENT OWNERSHIP SEARCH WAS PERFORMED BY ASCENT

0 500 1000
SCALE: 1"= 1000'



TYPICAL PERMANENT EASEMENT

06/28/2021
RALPH B. CHUSTZ, JR.
NEW MEXICO
26264
PROFESSIONAL SURVEYOR

I, RALPH B. CHUSTZ, JR., NEW MEXICO PROFESSIONAL SURVEYOR NO. 26264, DO HEREBY CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT PLAT OF A PROPOSED EASEMENT.

RALPH B. CHUSTZ, JR., N.M. P.L.S. **No.26264**

SURVEY DATE: 06/10/2021
JOB NO.: B20.EOG.0054
DRAFT: JW
SHEET: 1 OF 2

eog resources

GRACKLE 23 EAST FC PROPOSED ACCESS ROADS
CROSSING SEC. 26, T-24-S, R-34-E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

ASCENT GEOMATICS SOLUTIONS
COLLECT-ANALYZE-DELIVER
GEOSPATIAL DATA
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680

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SECTION 26, TOWNSHIP 24 SOUTH, RANGE 34 EAST,
LEA COUNTY, NEW MEXICO

Line Table - Access Roads			
Line #	Direction	Length	Length (Rods)
A1	S0°00'00"E	835.4'	50.6
A2	N90°00'00"E	137.8'	8.3

Line Table - Ties			
Line #	Direction	Length	TIE TO
T1A	N89°44'18"E	1703.1'	B.O.L. - A
T2A	S41°22'47"E	2395.4'	E.O.L. - A

GRACKLE 23 EAST FC ACCESS ROADS
CENTERLINE DESCRIPTION

A PROPOSED 30' WIDE ACCESS ROAD SITUATED IN THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 26, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AS CONVEYED TO QUAIL RANCH LLC, AND BEING 15 FEET LEFT AND 15 FEET RIGHT OF THE SURVEY OF CENTERLINE AS SHOWN HEREON AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS;

BEGINNING AT A POINT, FROM WHICH A GLO BRASS CAP FOUND AND ACCEPTED AS THE NORTHEAST CORNER OF SAID SECTION 26 BEARS N89°44'18"E, 1703.1 FEET, FOR THE BEGINNING OF THE HEREIN DESCRIBED CENTERLINE;

THENCE THE FOLLOWING ONE (1) COURSE, S0°00'00"E, 835.4 FEET, TO AN ANGLE POINT HEREOF;

THENCE N90°00'00"E, 137.8 FEET TO A POINT, BEING THE END OF THE DESCRIBED CENTERLINE, FROM WHICH A GLO BRASS CAP FOUND AND ACCEPTED AS THE EAST QUARTER CORNER OF SAID SECTION 26 BEARS S41°22'47"E, 2395.4 FEET, IN ALL BEING 973.2 FEET OR 58.9 RODS IN LENGTH.

NOTES:
- BEARINGS, COORDINATES, AND DISTANCES SHOWN HEREON ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83- 2011 (EPOCH 2010) FRAMEWORK, AS DERIVED BY OPUS SOLUTION.
- LAND OWNERSHIP INFORMATION REFLECTED HEREON WAS PROVIDED BY CLIENT AND/OR OBTAINED FROM PUBLIC DOMAIN DATA, NO INDEPENDENT OWNERSHIP SEARCH WAS PERFORMED BY ASCENT

06/28/2021
RALPH B. CHUSTZ, JR. NEW MEXICO 26264 PROFESSIONAL SURVEYOR

I, RALPH B. CHUSTZ, JR., NEW MEXICO PROFESSIONAL SURVEYOR NO. 26264, DO HEREBY CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT PLAT OF A PROPOSED EASEMENT.

RALPH B. CHUSTZ, JR., N.M. P.L.S. **No.26264**

SURVEY DATE: 06/10/2021
JOB NO.: B20.EOG.0054
DRAFT: JW
SHEET: 2 OF 2

eog resources

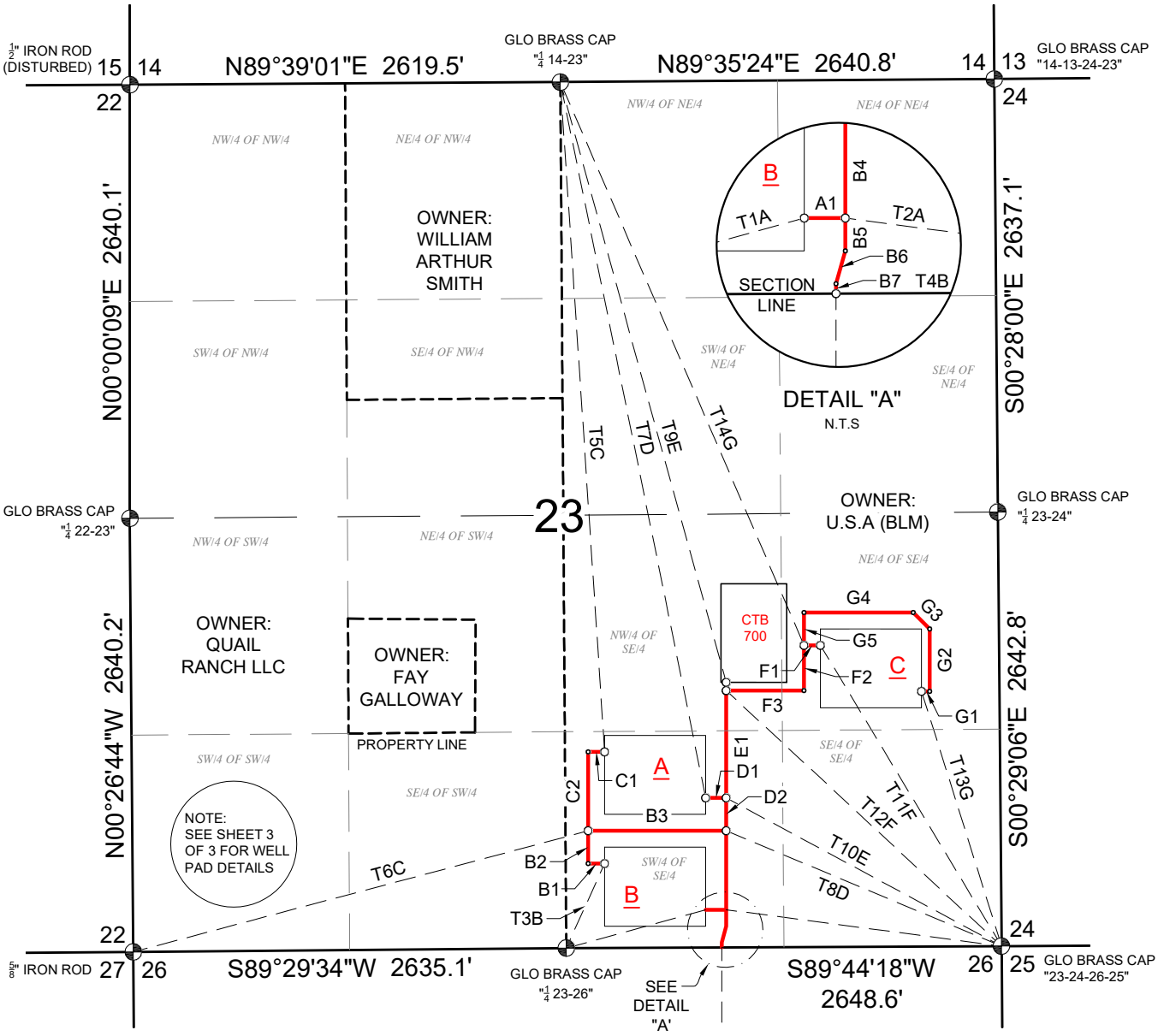
GRACKLE 23 EAST FC PROPOSED ACCESS ROADS
CROSSING SEC. 26, T-24-S, R-34-E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

ASCENT GEOMATICS SOLUTIONS

ASCENT GEOMATICS SOLUTIONS
COLLECT-ANALYZE-DELIVER
GEOSPATIAL DATA
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680

P:\EOG _ B20054\PRODIROW EXHIBITS\ACCESS ROAD\GRACKLE_23_EAST_FED_COM_ACCESS_ROADS_SEC26 6/23/2021 2:04 PM

SECTION 23, TOWNSHIP 24 SOUTH, RANGE 34 EAST,
LEA COUNTY, NEW MEXICO



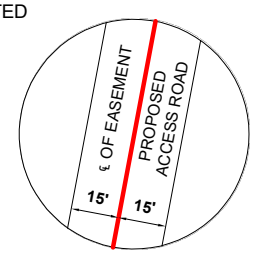
GRACKLE 23 EAST FC ACCESS ROADS
CENTERLINE DESCRIPTION

A STRIP OF LAND 30 FEET IN WIDTH AND 5872.8 FEET, 355.9 RODS OR 1.11 MILES IN LENGTH, SITUATED IN SECTION 23, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AND BEING 15 FEET LEFT AND 15 FEET RIGHT OF THE SURVEY OF CENTERLINE AS SHOWN HEREON.

- ACCESS ROAD
- POINT FOR CORNER
- POINT FOR BEGIN/END
- FOUND MONUMENT AS SHOWN
- CALCULATED CORNER

NOTES:
- BEARINGS, COORDINATES, AND DISTANCES SHOWN HEREON ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83- 2011 (EPOCH 2010) FRAMEWORK, AS DERIVED BY OPUS SOLUTION.
- LAND OWNERSHIP INFORMATION REFLECTED HEREON WAS PROVIDED BY CLIENT AND/OR OBTAINED FROM PUBLIC DOMAIN DATA, NO INDEPENDENT OWNERSHIP SEARCH WAS PERFORMED BY ASCENT

0 500 1000
SCALE: 1"= 1000'



TYPICAL PERMANENT EASEMENT

06/28/2021
RALPH B. CHUSTZ, JR.
NEW MEXICO
26264
PROFESSIONAL SURVEYOR

I, RALPH B. CHUSTZ, JR., NEW MEXICO PROFESSIONAL SURVEYOR NO. 26264, DO HEREBY CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT PLAT OF A PROPOSED EASEMENT.

RALPH B. CHUSTZ, JR., N.M. P.L.S. **No.26264**

SURVEY DATE: 06/10/2021
JOB NO.: B20.EOG.0054
DRAFT: JW
SHEET: 1 OF 3

eog resources

GRACKLE 23 EAST FC PROPOSED ACCESS ROADS
CROSSING SEC. 23, T-24-S, R-34-E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

ASCENT GEOMATICS SOLUTIONS
COLLECT-ANALYZE-DELIVER
GEOSPATIAL DATA
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680

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SECTION 23, TOWNSHIP 24 SOUTH, RANGE 34 EAST,
LEA COUNTY, NEW MEXICO

Line Table - Access Roads			
Line #	Direction	Length	Length (Rods)
A1	N90°00'00"E	125.0'	7.6
B1	N90°00'00"W	100.0'	6.1
B2	N0°00'00"E	200.0'	12.1
B3	N90°00'00"E	840.0'	50.9
B4	S0°00'00"E	480.0'	29.1
B5	S0°00'00"E	100.0'	6.1
B6	S15°43'26"W	103.5'	6.3
B7	S0°00'00"E	30.1'	1.8
C1	N90°00'00"W	100.0'	6.1
C2	S0°00'00"E	480.0'	29.1
D1	N90°00'00"E	125.0'	7.6
D2	S0°00'00"E	200.0'	12.1
E1	S0°00'00"E	703.3'	42.6
F1	N90°00'00"W	100.0'	6.1
F2	S0°00'00"E	276.4'	16.8
F3	N90°00'00"W	473.1'	28.7
G1	N90°00'00"E	50.0'	3.0
G2	N0°00'00"E	380.0'	23.0
G3	N45°00'00"W	141.4'	8.6
G4	N90°00'00"W	665.0'	40.3
G5	S0°00'00"E	200.0'	12.1

Line Table - Ties			
Line #	Direction	Length	TIE TO
T1A	S74°34'52"W	880.2'	B.O.L. - A
T2A	S82°27'09"E	1689.7'	E.O.L. - A
T3B	N24°26'10"E	564.6'	B.O.L. - B
T4B	N89°44'18"E	1703.1'	E.O.L. - B
T5C	S3°46'53"E	4087.7'	B.O.L. - C
T6C	S75°05'12"W	2865.1'	E.O.L. - C
T7D	S11°28'19"E	4447.7'	B.O.L. - D
T8D	S67°15'49"E	1816.2'	E.O.L. - D
T9E	S15°26'22"E	3792.4'	B.O.L. - E
T10E	S61°41'58"E	1902.4'	E.O.L. - E
T11F	N31°01'49"W	2137.6'	B.O.L. - F
T12F	S47°07'26"E	2285.7'	E.O.L. - F
T13G	N17°25'17"W	1626.3'	B.O.L. - G
T14G	N23°23'01"W	3735.9'	E.O.L. - G

NOTES:
- BEARINGS, COORDINATES, AND DISTANCES SHOWN HEREON ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83- 2011 (EPOCH 2010) FRAMEWORK, AS DERIVED BY OPUS SOLUTION.
- LAND OWNERSHIP INFORMATION REFLECTED HEREON WAS PROVIDED BY CLIENT AND/OR OBTAINED FROM PUBLIC DOMAIN DATA, NO INDEPENDENT OWNERSHIP SEARCH WAS PERFORMED BY ASCENT

06/28/2021
RALPH B. CHUSTZ, JR. NEW MEXICO 26264 PROFESSIONAL SURVEYOR

I, RALPH B. CHUSTZ, JR., NEW MEXICO PROFESSIONAL SURVEYOR NO. 26264, DO HEREBY CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT PLAT OF A PROPOSED EASEMENT.

RALPH B. CHUSTZ, JR., N.M. P.L.S. **No.26264**

SURVEY DATE: 06/10/2021
JOB NO.: B20.EOG.0054
DRAFT: JW
SHEET: 2 OF 3

eog resources

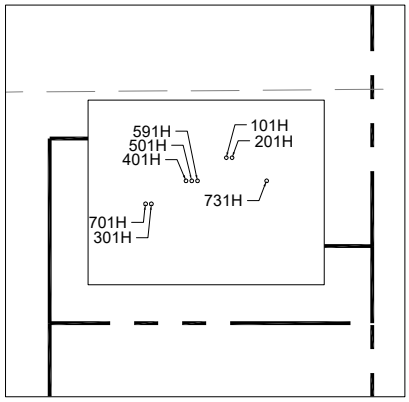
GRACKLE 23 EAST FC PROPOSED ACCESS ROADS
CROSSING SEC. 23, T-24-S, R-34-E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

ASCENT GEOMATICS SOLUTIONS
COLLECT-ANALYZE-DELIVER
GEOSPATIAL DATA
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680

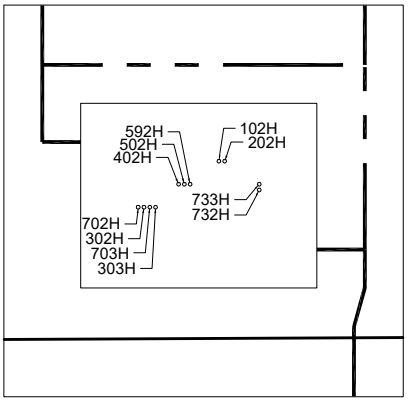
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SECTION 23, TOWNSHIP 24 SOUTH, RANGE 34 EAST,
LEA COUNTY, NEW MEXICO

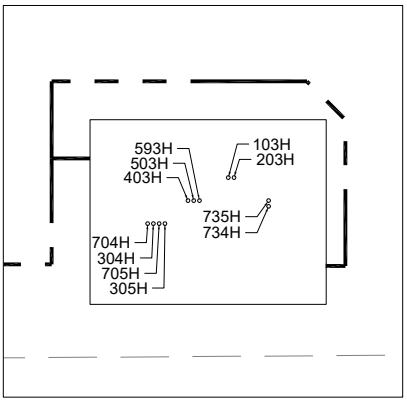
PAD A
SCALE: 1" = 500'



PAD B
SCALE: 1" = 500'



PAD C
SCALE: 1" = 500'



NOTES:
- BEARINGS, COORDINATES, AND DISTANCES SHOWN HEREON ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83- 2011 (EPOCH 2010) FRAMEWORK, AS DERIVED BY OPUS SOLUTION.
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06/28/2021
RALPH B. CHUSTZ, JR.
NEW MEXICO
26264
PROFESSIONAL SURVEYOR

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RALPH B. CHUSTZ, JR., N.M. P.L.S. **No.26264**

SURVEY DATE: 06/10/2021
JOB NO.: B20.EOG.0054
DRAFT: JW
SHEET: 3 OF 3

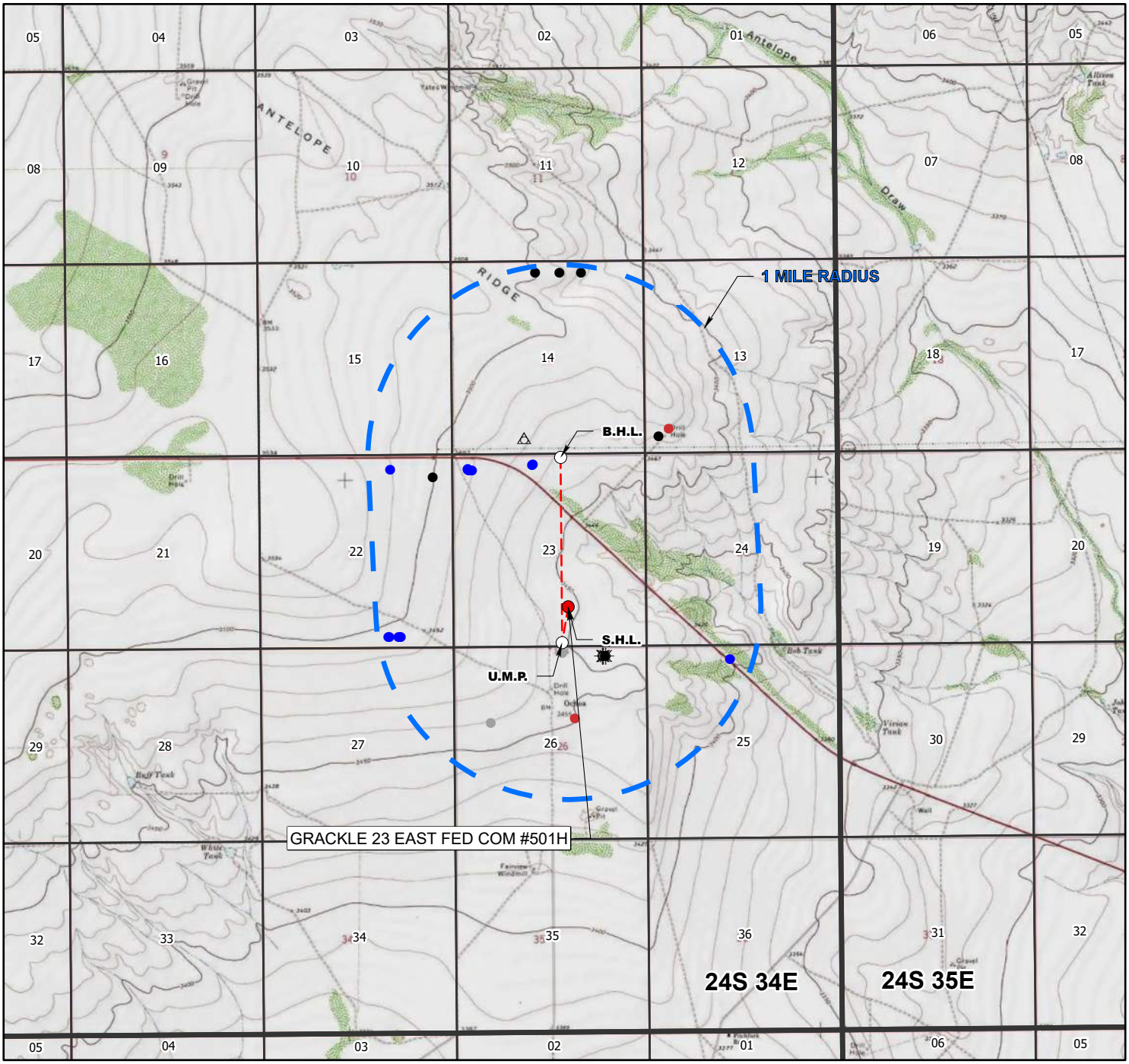
eog resources

GRACKLE 23 EAST FC PROPOSED ACCESS ROADS
CROSSING SEC. 23, T-24-S, R-34-E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

ASCENT GEOMATICS SOLUTIONS
COLLECT-ANALYZE-DELIVER
GEOSPATIAL DATA
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680

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EXHIBIT 3
1 MILE RADIUS BUFFER MAP



LEASE NAME & WELL NO.: GRACKLE 23 EAST FED COM #501H
LATITUDE: N 32.19875 LONG: W 103.43911 ELEVATION: 3452'

SECTION: 23 TWP: 24S RGE: 34E SURVEY: N.M.P.M.
COUNTY: LEA STATE: NM

DESCRIPTION: 1082' FSL & 2136' FEL

- S.H.L.
- L.M.P.; B.H.L.; U.M.P.
- Bore Line
- Gas, Active
- Oil, Active
- Oil, Cancelled
- Oil, New
- Oil, Plugged
- Salt Water Injection, Active
- Section
- Township

eog resources

JOB No.: EOG_B200054

NOTE:
ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE FOLLOWING COORDINATE SYSTEM: NAD83 NEW MEXICO STATE PLANE, EAST ZONE, U.S. SURVEY FEET

DISCLAIMER:
THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY AND SHOULD NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES, PROPERTY OWNERSHIP OR OTHER PROPERTY INTERESTS.

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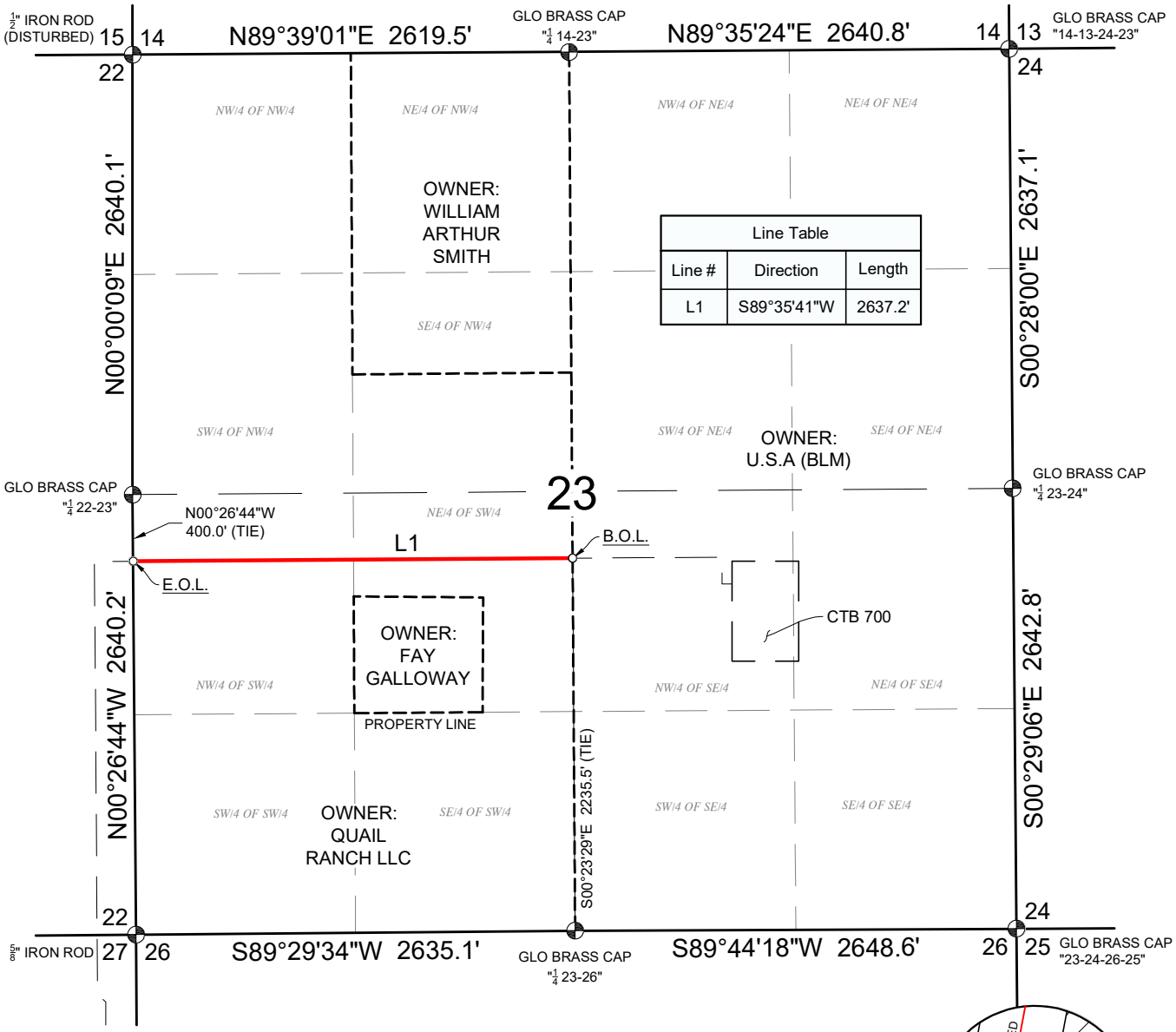
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SCALE: 1"=4,000'

ASCENT
GEOMATICS SOLUTIONS
2057 COMMERCE DRIVE,
MIDLAND, TEXAS 79703
OFFICE: (432) 756-5680
WWW.ASCENTGEOMATICS.COM

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SECTION 23, TOWNSHIP 24 SOUTH, RANGE 34 EAST,
LEA COUNTY, NEW MEXICO

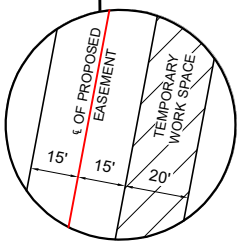


GRACKLE 23 EAST FC CTB 700 WATER LINE
CENTERLINE DESCRIPTION

A PROPOSED WATER LINE SITUATED IN THE NORTH HALF OF THE SOUTHWEST QUARTER OF SECTION 23, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AS CONVEYED TO QUAIL RANCH LLC, AND BEING 15 FEET LEFT AND 15 FEET RIGHT OF THE SURVEY OF CENTERLINE AS SHOWN HEREON AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS;

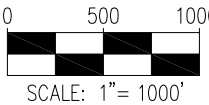
BEGINNING AT A POINT, FROM WHICH A GLO BRASS CAP FOUND AND ACCEPTED AS THE SOUTH QUARTER CORNER OF SAID SECTION 23 BEARS S00°23'29"E, 2235.5 FEET, FOR THE BEGINNING OF THE HEREIN DESCRIBED CENTERLINE;

THENCE THE FOLLOWING ONE (1) COURSE, S89°35'41"W, 2637.2 FEET TO A POINT, BEING THE END OF THE DESCRIBED CENTERLINE, FROM WHICH A GLO BRASS CAP FOUND AND ACCEPTED AS THE WEST QUARTER CORNER OF SAID SECTION 23 BEARS N00°26'44"W, 400.0 FEET, IN ALL BEING 2637.2 FEET OR 159.8 RODS IN LENGTH.



TYPICAL N.T.S
PERMANENT EASEMENT, TEMPORARY WORK SPACE CONFIGURATION

NOTES:
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WATER LINE
POINT FOR BEGIN/END OR ANGLE POINT
FOUND MONUMENT AS SHOWN
CALCULATED CORNER

I, RALPH B. CHUSTZ, JR., NEW MEXICO PROFESSIONAL SURVEYOR NO. 26264, DO HEREBY CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT PLAT OF A PROPOSED EASEMENT.

RALPH B. CHUSTZ, JR., N.M. P.L.S. **No.26264**

SURVEY DATE: 06/10/2021
JOB NO.: B20.EOG.0054
DRAFT: JW
SHEET: 1 OF 1

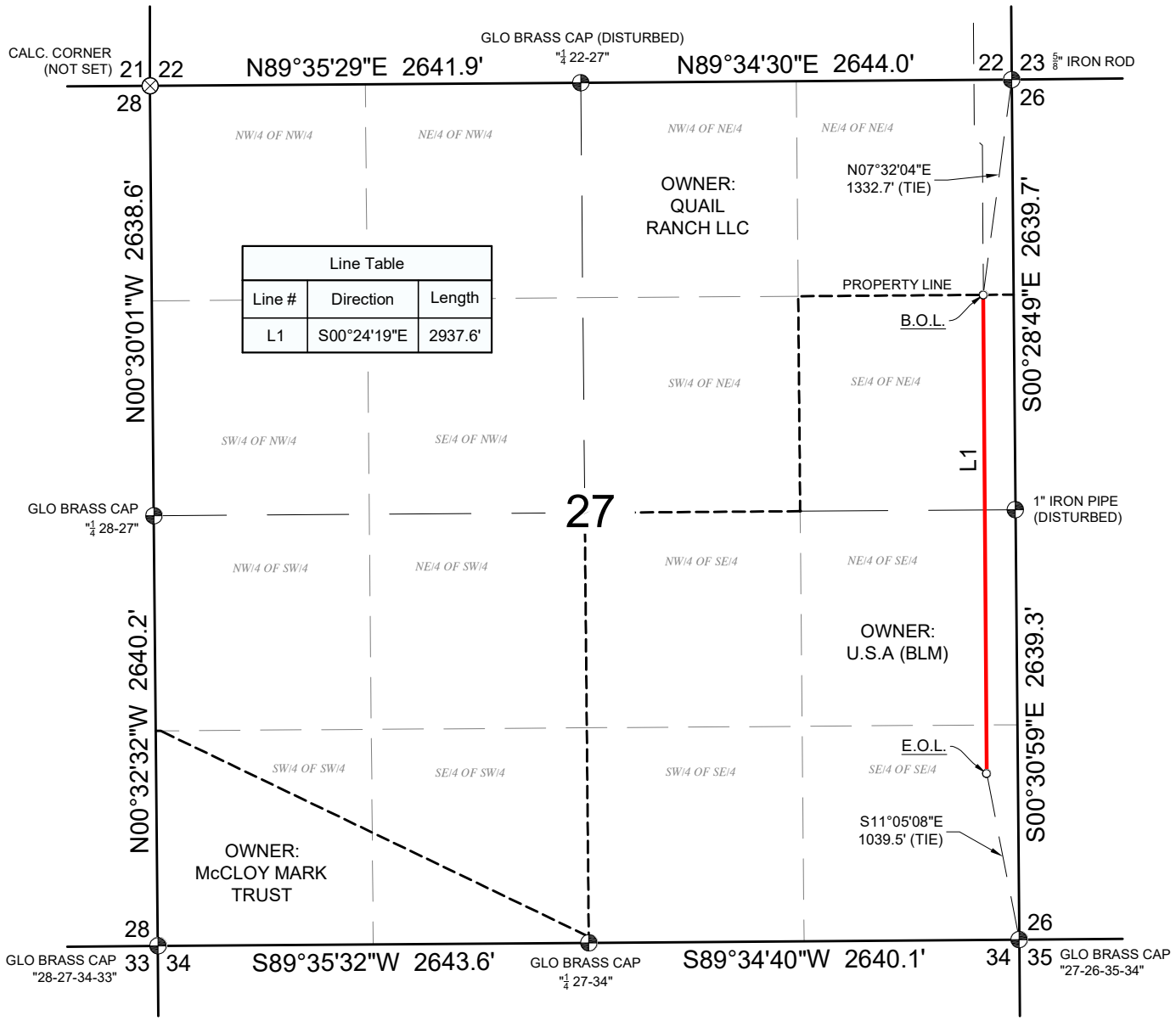
eog resources

GRACKLE 23 EAST FC CTB 700 PROPOSED WATER LINE
CROSSING SEC. 23, T-24-S, R-34-E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

ASCENT GEOMATICS SOLUTIONS
COLLECT-ANALYZE-DELIVER
GEOSPATIAL DATA
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680

PLAT: P:\EOG_B20\0054\PROD\ROW EXHIBITS\UTILITIES\GRACKLE_23_EAST_FED_COM_UTILITIES_CTB_700_SEC_23 JWILSON LAYOUT TAB: SHEET 1

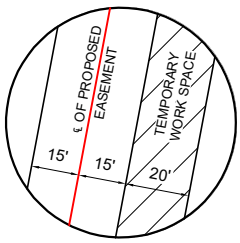
SECTION 27, TOWNSHIP 24 SOUTH, RANGE 34 EAST,
LEA COUNTY, NEW MEXICO



GRACKLE 23 EAST FC CTB 700 WATER LINE

CENTERLINE DESCRIPTION

A STRIP OF LAND 30 FEET IN WIDTH AND 2937.6 FEET, 178.0 RODS OR 0.56 MILES IN LENGTH, SITUATED IN SECTION 27, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AND BEING 15 FEET LEFT AND 15 FEET RIGHT OF THE SURVEY OF CENTERLINE AS SHOWN HEREON.



TYPICAL N.T.S
PERMANENT EASEMENT, TEMPORARY WORK SPACE CONFIGURATION

- WATER LINE
- POINT FOR BEGIN/END OR ANGLE POINT
- FOUND MONUMENT AS SHOWN
- CALCULATED CORNER

NOTES:
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0 500 1000'
SCALE: 1"= 1000'

I, RALPH B. CHUSTZ, JR., NEW MEXICO PROFESSIONAL SURVEYOR NO. 26264, DO HEREBY CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT PLAT OF A PROPOSED EASEMENT.

RALPH B. CHUSTZ, JR., N.M. P.L.S. **No.26264**

SURVEY DATE: 06/10/2021
JOB NO.: B20.EOG.0054
DRAFT: JW
SHEET: 1 OF 1

eog resources

GRACKLE 23 EAST FC CTB 700 PROPOSED WATER LINE
CROSSING SEC. 27, T-24-S, R-34-E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

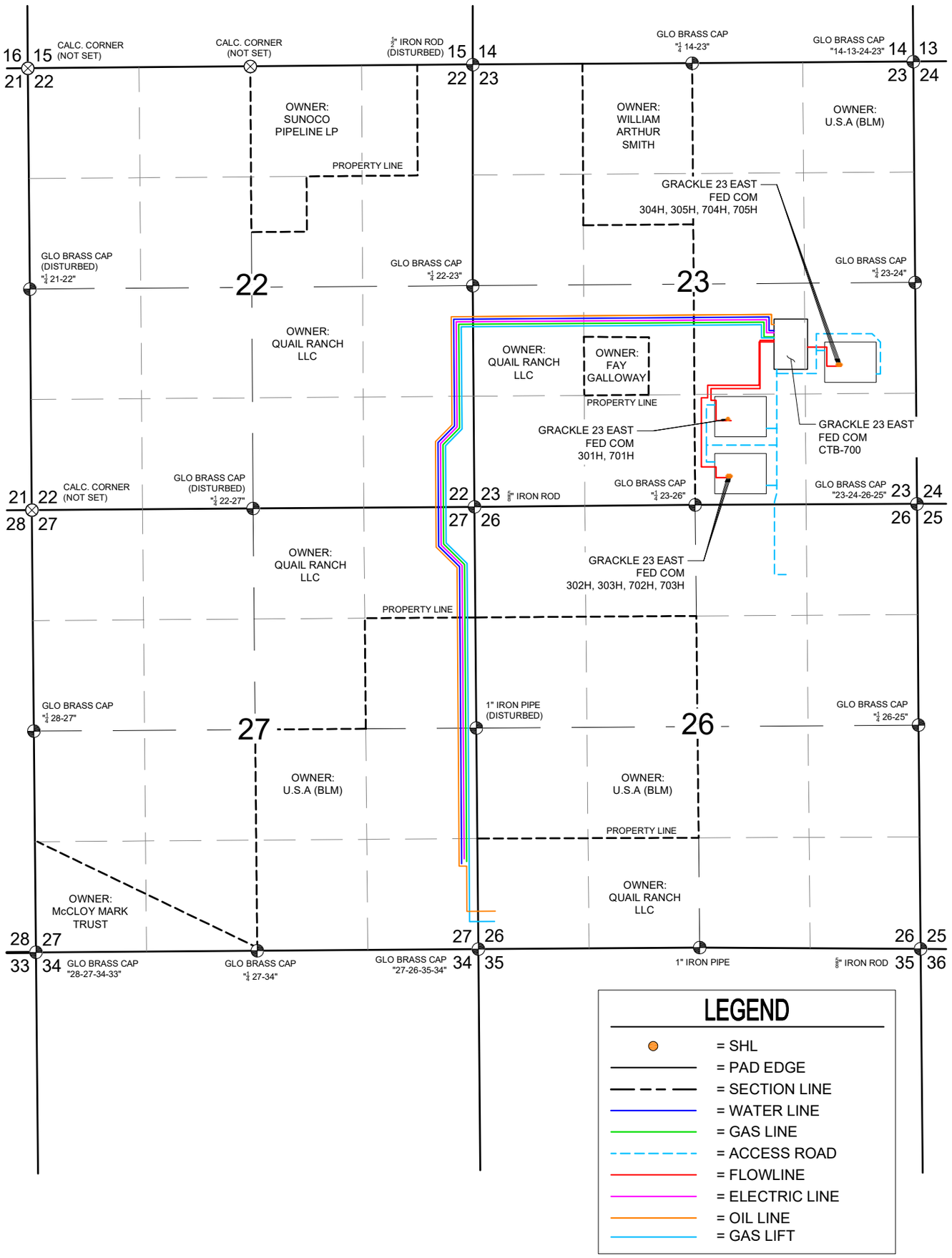
ASCENT GEOMATICS SOLUTIONS
COLLECT-ANALYZE-DELIVER
GEOSPATIAL DATA
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680

PLAT: P:\EOG_B20\0054\PROD\ROW EXHIBITS\UTILITIES\GRACKLE_23_EAST_FED_COM_UTILITIES_CTB_700_SEC_27 JWILSON LAYOUT TAB: SHEET 1

EXHIBIT 1

SECTION 23, TOWNSHIP 24 SOUTH, RANGE 34 EAST,
LEA COUNTY, NEW MEXICO

GRACKLE 23 EAST FED COM
INFRASTRUCTURE MAP



N W E S

ASCENT GEOMATICS SOLUTIONS

eog resources

SURVEY DATE: 06/10/2021
JOB NO.: B20.EOG.0054
DRAFT: JW
SHEET: 1 OF 4

GRACKLE 23 EAST FED COM
CTB INFRASTRUCTURE
PHASE 1

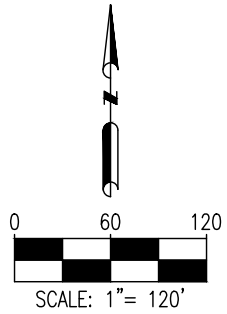
ASCENT GEOMATICS SOLUTIONS

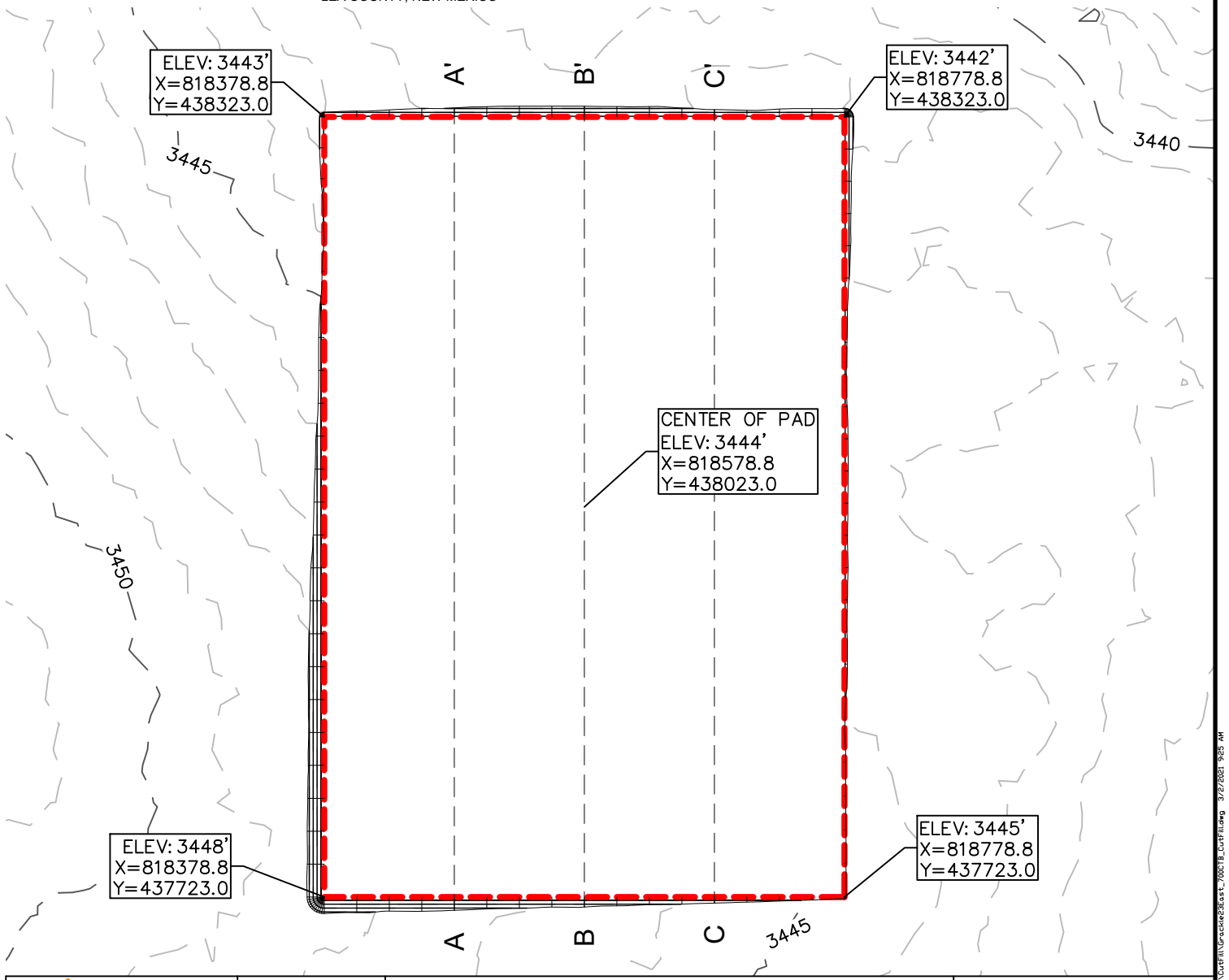
ASCENT GEOMATICS SOLUTIONS
COLLECT-ANALYZE-DELIVER
GEOSPATIAL DATA
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680

PLAT: P:\EOG_B20\0054\PROD\ROW EXHIBITS\OVERALL\GRACKLE_23_EAST_FED_COM_OVERALL LAYOUT TAB: SHEET 1

EXHIBIT 6
GRACKLE 23 EAST FED COM
700 CTB

SECTION 23, TOWNSHIP 24S, RANGE 34E, N.M.P.M.
LEA COUNTY, NEW MEXICO





PROPOSED QUANTITIES

TOP OF PAD ELEVATION: 3444.2'
CUT SLOPE: 33.33% 3.000:1 18.43°
FILL SLOPE: 33.33% 3.000:1 18.43°
BALANCE TOLERANCE (C.Y.): ±0%
CUT SWELL FACTOR: 1.00
FILL SHRINK FACTOR: 1.00

PAD EARTHWORK VOLUMES
CUT: 182,871 C.F., 6,773 C.Y.
FILL: 182,871 C.F., 6,773 C.Y.
AREA: 251,928 SQ.FT., 5.8 ACRES

NOTES:
1. A COMPLETE UTILITIES LOCATION IS RECOMMENDED BEFORE CONSTRUCTION.
2. ALL BEARING, DISTANCE, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON NAD83 NEW MEXICO STATE PLANE, EAST ZONE, U.S. SURVEY FOOT.
3. EARTHWORK QUANTITIES ARE APPROXIMATE & FOR INFORMATION ONLY. 6" OF TOPSOIL HAS BEEN SUBTRACTED FROM EXISTING SURFACE PRIOR TO PERFORMING EARTHWORK CALCULATIONS.
4. SITE QUANTITIES HAVE BEEN BALANCED TO WITHIN A TENTH OF A FOOT IN ACCORDANCE WITH ACCEPTABLE CONSTRUCTION TOLERANCES.

DISCLAIMER:
THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY AND SHOULD NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES, PROPERTY OWNERSHIP OR OTHER PROPERTY INTERESTS. PARCEL LINES, IF DEPICTED HAVE NOT BEEN FIELD VERIFIED AND MAY BE BASED UPON PUBLICLY AVAILABLE DATA THAT ALSO HAS NOT BEEN INDEPENDENTLY VERIFIED.

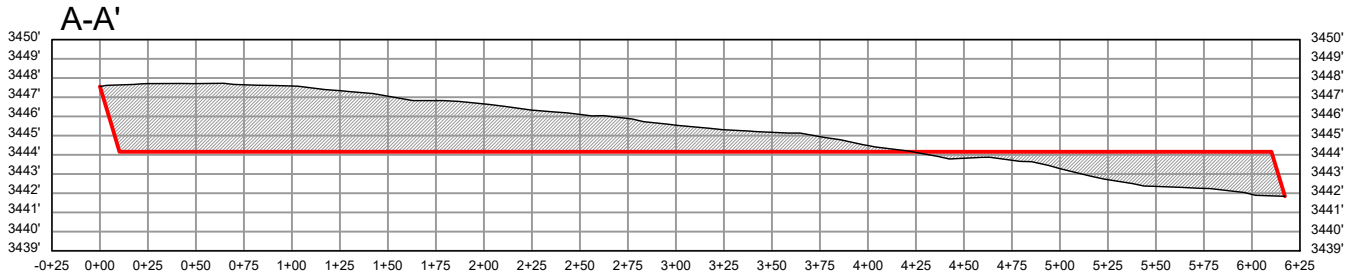
ASCENT GEOMATICS SOLUTIONS
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680
www.ascentgeomatics.com

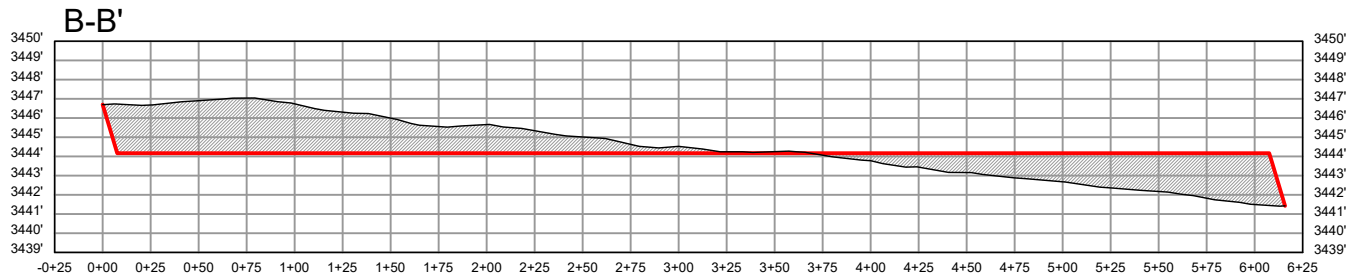
FIELD DATE:	09/09/2020
DRAWING DATE:	02/23/2021
BY:	RMC
CHECKED:	KH
SITE NAME:	GRACKLE 23 EAST FED COM 700 CTB
SURFACE LOCATION:	NW 1/4 SE 1/4 SEC. 23, T24S, R34E, N.M. P.M. LEA COUNTY, NEW MEXICO
PREPARED FOR:	eog resources

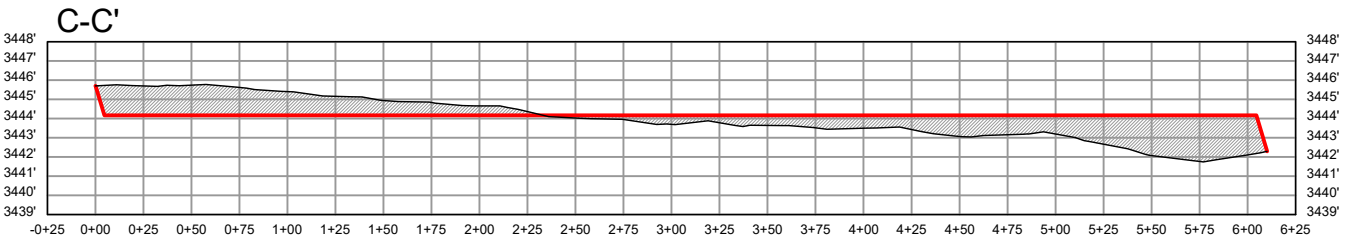
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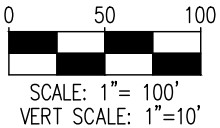
EXHIBIT 6A
GRACKLE 23 EAST FED COM
700 CTB

SECTION 23, TOWNSHIP 24S, RANGE 34E, N.M.P.M.
LEA COUNTY, NEW MEXICO









DISCLAIMER:
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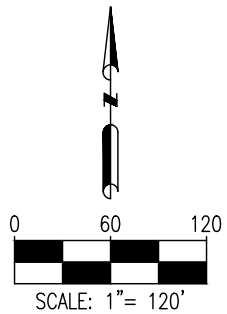
ASCENT GEOMATICS SOLUTIONS
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680
www.ascentgeomatics.com

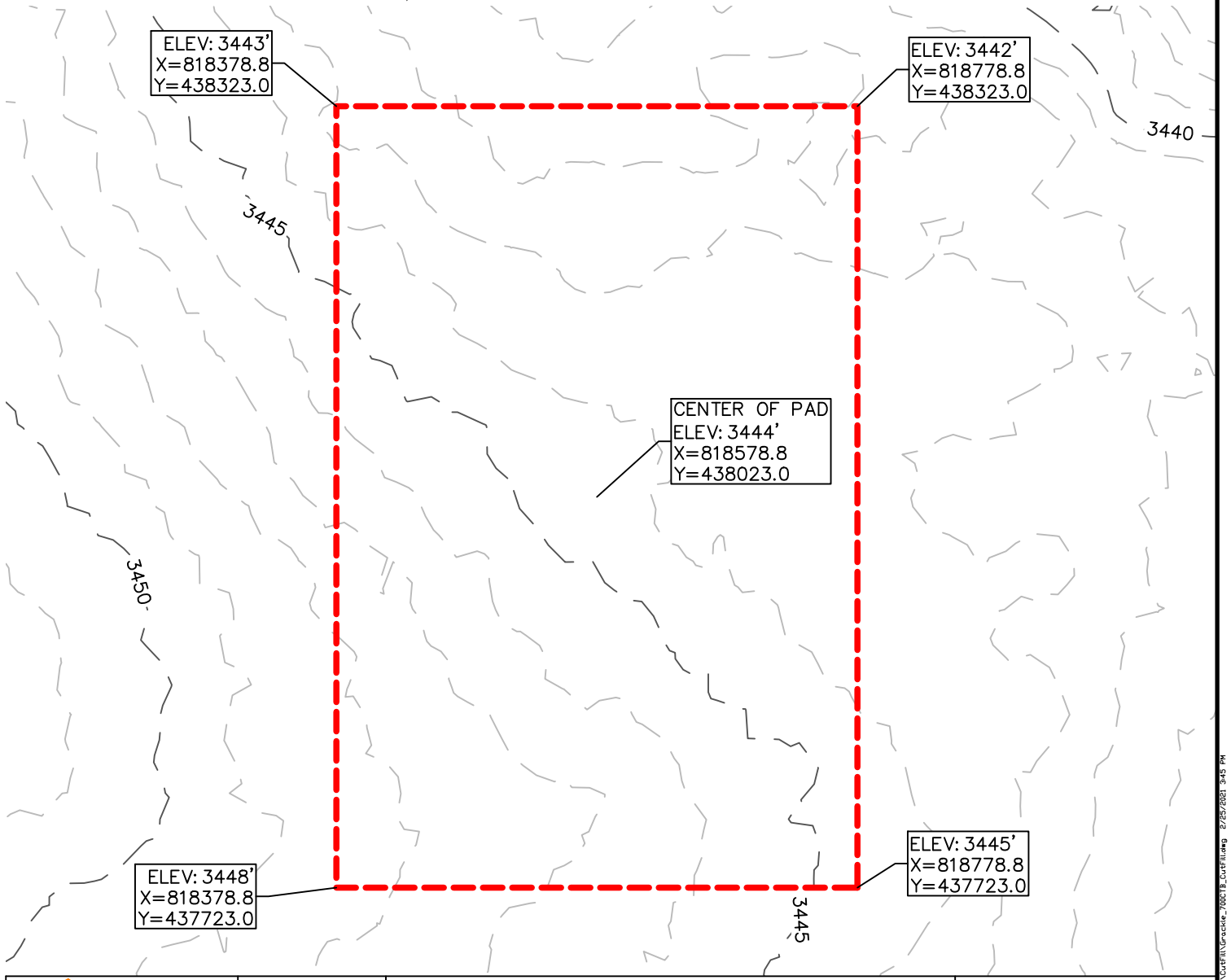
FIELD DATE: 09/09/2020	SITE NAME: GRACKLE 23 EAST FED COM 700 CTB
DRAWING DATE: 02/23/2021	SURFACE LOCATION: NW 1/4 SE 1/4 SEC. 23, T24S, R34E, N.M. P.M. LEA COUNTY, NEW MEXICO
BY: RMC / CHECKED: KH	PREPARED FOR: eog resources

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EXHIBIT 6B
GRACKLE 23 EAST FED COM
700 CTB

SECTION 23, TOWNSHIP 24S, RANGE 34E, N.M.P.M.
LEA COUNTY, NEW MEXICO





PROPOSED QUANTITIES

TOP OF PAD ELEVATION: 3444.2'
CUT SLOPE: 33.33% 3.000:1 18.43°
FILL SLOPE: 33.33% 3.000:1 18.43°
BALANCE TOLERANCE (C.Y.): ±0%
CUT SWELL FACTOR: 1.00
FILL SHRINK FACTOR: 1.00

PAD EARTHWORK VOLUMES
CUT: 182,871 C.F., 6,773 C.Y.
FILL: 182,871 C.F., 6,773 C.Y.
AREA: 251,928 SQ.FT., 5.8 ACRES

NOTES:
1. A COMPLETE UTILITIES LOCATION IS RECOMMENDED BEFORE CONSTRUCTION.
2. ALL BEARING, DISTANCE, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON NAD83 NEW MEXICO STATE PLANE, EAST ZONE, U.S. SURVEY FOOT.
3. EARTHWORK QUANTITIES ARE APPROXIMATE & FOR INFORMATION ONLY. 6" OF TOPSOIL HAS BEEN SUBTRACTED FROM EXISTING SURFACE PRIOR TO PERFORMING EARTHWORK CALCULATIONS.
4. SITE QUANTITIES HAVE BEEN BALANCED TO WITHIN A TENTH OF A FOOT IN ACCORDANCE WITH ACCEPTABLE CONSTRUCTION TOLERANCES.

DISCLAIMER:
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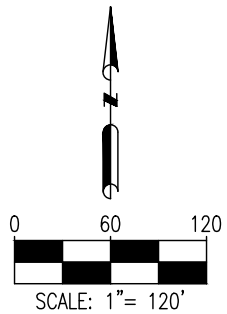
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2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680
www.ascentgeomatics.com

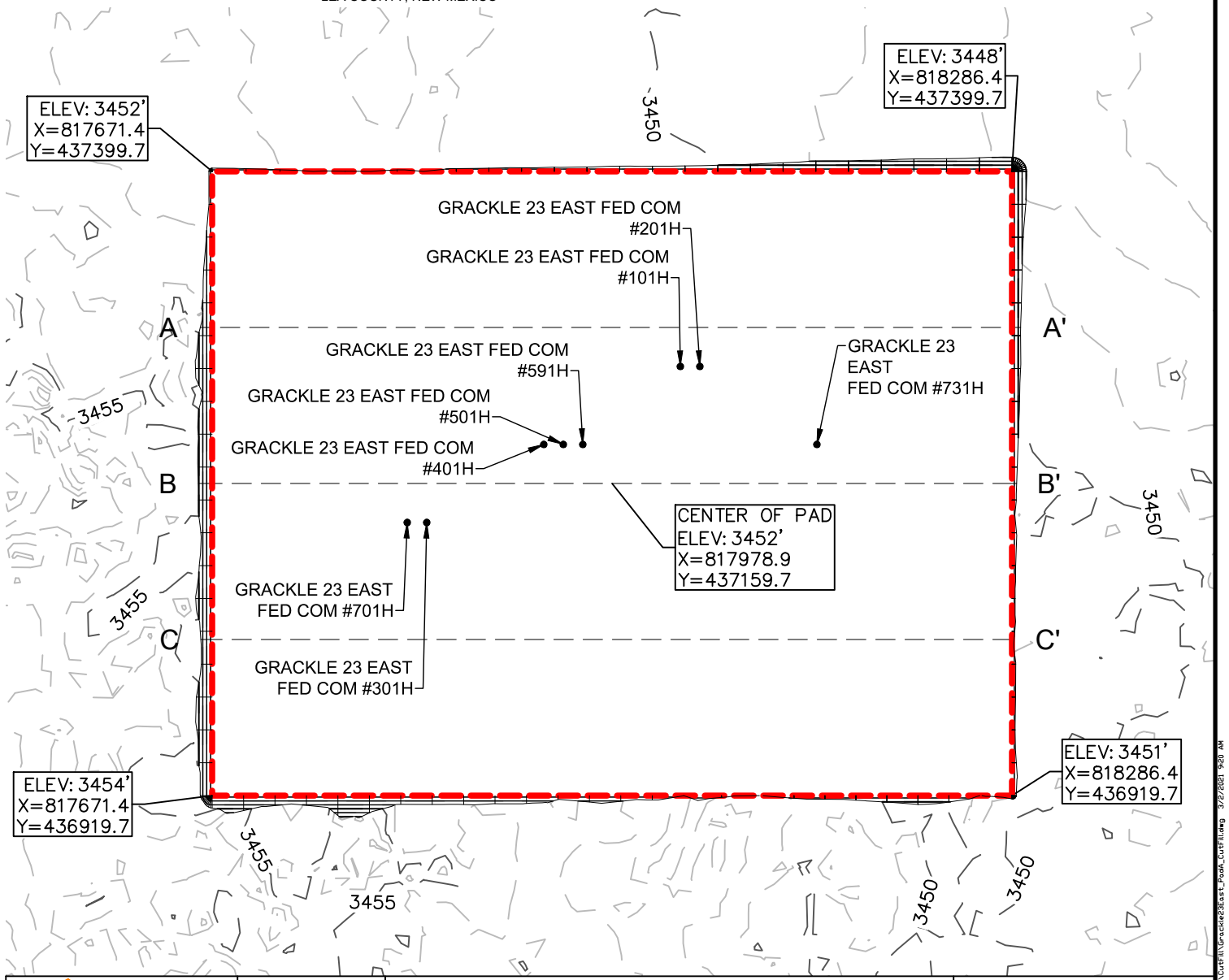
FIELD DATE:	09/09/2020
DRAWING DATE:	02/23/2021
BY:	RMC
CHECKED:	KH
SITE NAME:	GRACKLE 23 EAST FED COM 700 CTB
SURFACE LOCATION:	NW 1/4 SE 1/4 SEC. 23, T24S, R34E, N.M. P.M. LEA COUNTY, NEW MEXICO
PREPARED FOR:	eog resources

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EXHIBIT 6
GRACKLE 23 EAST FED COM
PAD A

SECTION 23, TOWNSHIP 24S, RANGE 34E, N.M.P.M.
LEA COUNTY, NEW MEXICO





PROPOSED QUANTITIES

TOP OF PAD ELEVATION: 3451.6'
CUT SLOPE: 33.33% 3.000:1 18.43°
FILL SLOPE: 33.33% 3.000:1 18.43°
BALANCE TOLERANCE (C.Y.): ±0%
CUT SWELL FACTOR: 1.00
FILL SHRINK FACTOR: 1.00

PAD EARTHWORK VOLUMES
CUT: 220,752 C.F., 8,176 C.Y.
FILL: 220,752 C.F., 8,176 C.Y.
AREA: 308,297 SQ.FT., 7.1 ACRES

NOTES:
1. A COMPLETE UTILITIES LOCATION IS RECOMMENDED BEFORE CONSTRUCTION.
2. ALL BEARING, DISTANCE, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON NAD83 NEW MEXICO STATE PLANE, EAST ZONE, U.S. SURVEY FOOT.
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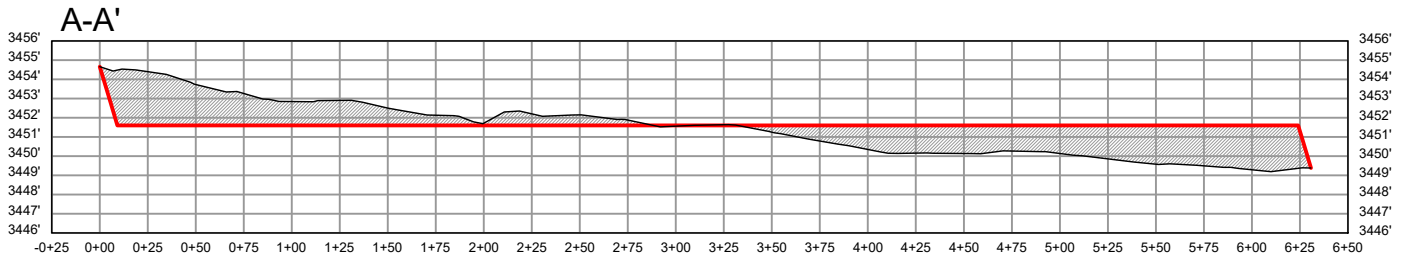
ASCENT GEOMATICS SOLUTIONS
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680
www.ascentgeomatics.com

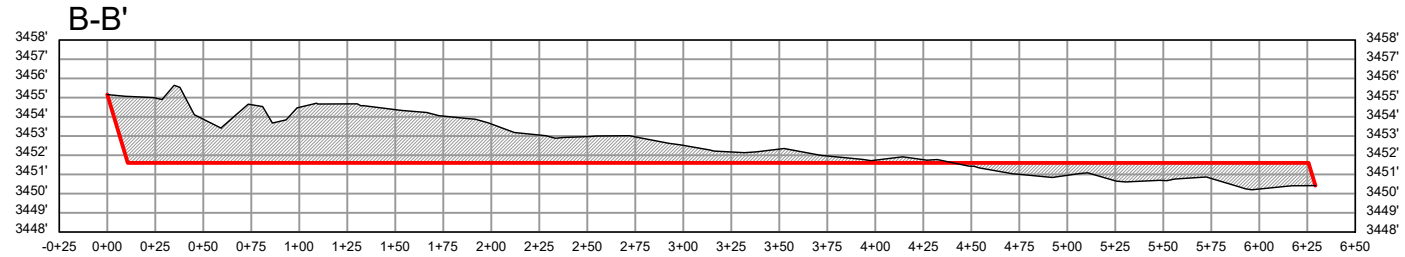
FIELD DATE:	09/09/2020
DRAWING DATE:	02/25/2021
BY:	RMC
CHECKED:	KH
SITE NAME:	GRACKLE 23 EAST FED COM PAD A
SURFACE LOCATION:	SW 1/4 SE 1/4 SEC. 23, T24S, R34E, N.M. P.M. LEA COUNTY, NEW MEXICO
PREPARED FOR:	eog resources

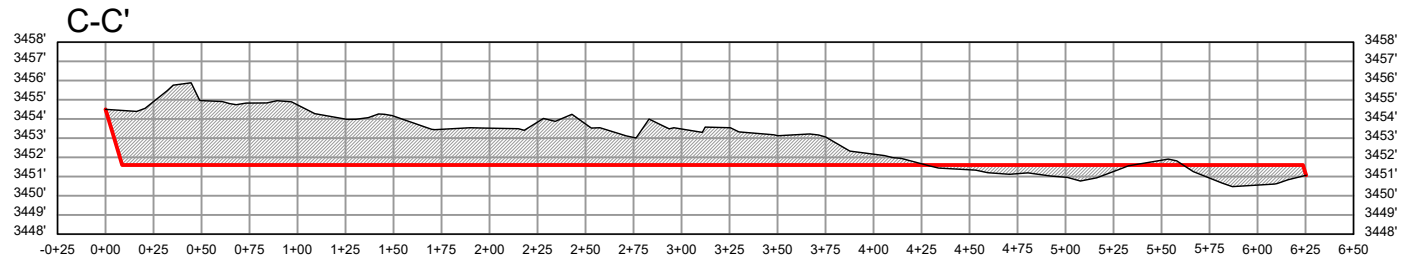
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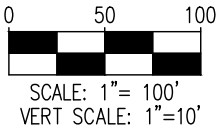
EXHIBIT 6A
GRACKLE 23 EAST FED COM
PAD A

SECTION 23, TOWNSHIP 24S, RANGE 34E, N.M.P.M.
LEA COUNTY, NEW MEXICO









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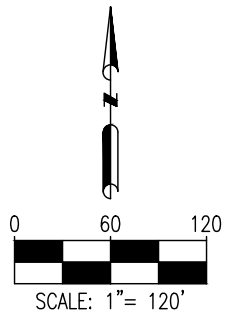
FIELD DATE: 09/09/2020	SITE NAME: GRACKLE 23 EAST FED COM PAD A
DRAWING DATE: 02/25/2021	SURFACE LOCATION: SW 1/4 SE 1/4 SEC. 23, T24S, R34E, N.M. P.M. LEA COUNTY, NEW MEXICO
BY: RMC CHECKED: KH	

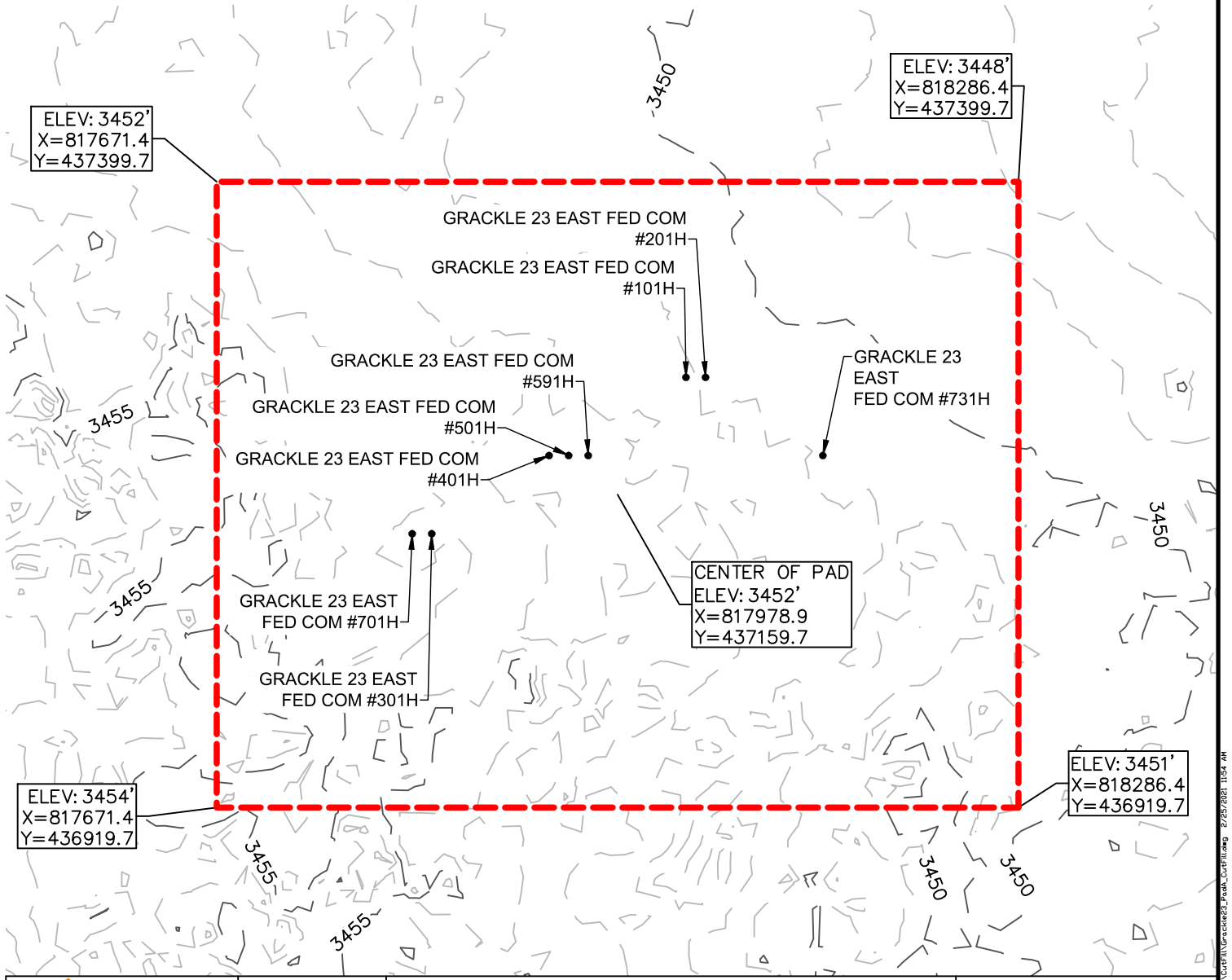
PREPARED FOR: eog resources

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EXHIBIT 6B
GRACKLE 23 EAST FED COM
PAD A

SECTION 23, TOWNSHIP 24S, RANGE 34E, N.M.P.M.
LEA COUNTY, NEW MEXICO





PROPOSED QUANTITIES

TOP OF PAD ELEVATION: 3451.6'
CUT SLOPE: 33.33% 3.000:1 18.43°
FILL SLOPE: 33.33% 3.000:1 18.43°
BALANCE TOLERANCE (C.Y.): ±0%
CUT SWELL FACTOR: 1.00
FILL SHRINK FACTOR: 1.00

PAD EARTHWORK VOLUMES
CUT: 220,752 C.F., 8,176 C.Y.
FILL: 220,752 C.F., 8,176 C.Y.
AREA: 308,297 SQ.FT., 7.1 ACRES

NOTES:
1. A COMPLETE UTILITIES LOCATION IS RECOMMENDED BEFORE CONSTRUCTION.
2. ALL BEARING, DISTANCE, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON NAD83 NEW MEXICO STATE PLANE, EAST ZONE, U.S. SURVEY FOOT.
3. EARTHWORK QUANTITIES ARE APPROXIMATE & FOR INFORMATION ONLY. 6" OF TOPSOIL HAS BEEN SUBTRACTED FROM EXISTING SURFACE PRIOR TO PERFORMING EARTHWORK CALCULATIONS.
4. SITE QUANTITIES HAVE BEEN BALANCED TO WITHIN A TENTH OF A FOOT IN ACCORDANCE WITH ACCEPTABLE CONSTRUCTION TOLERANCES.

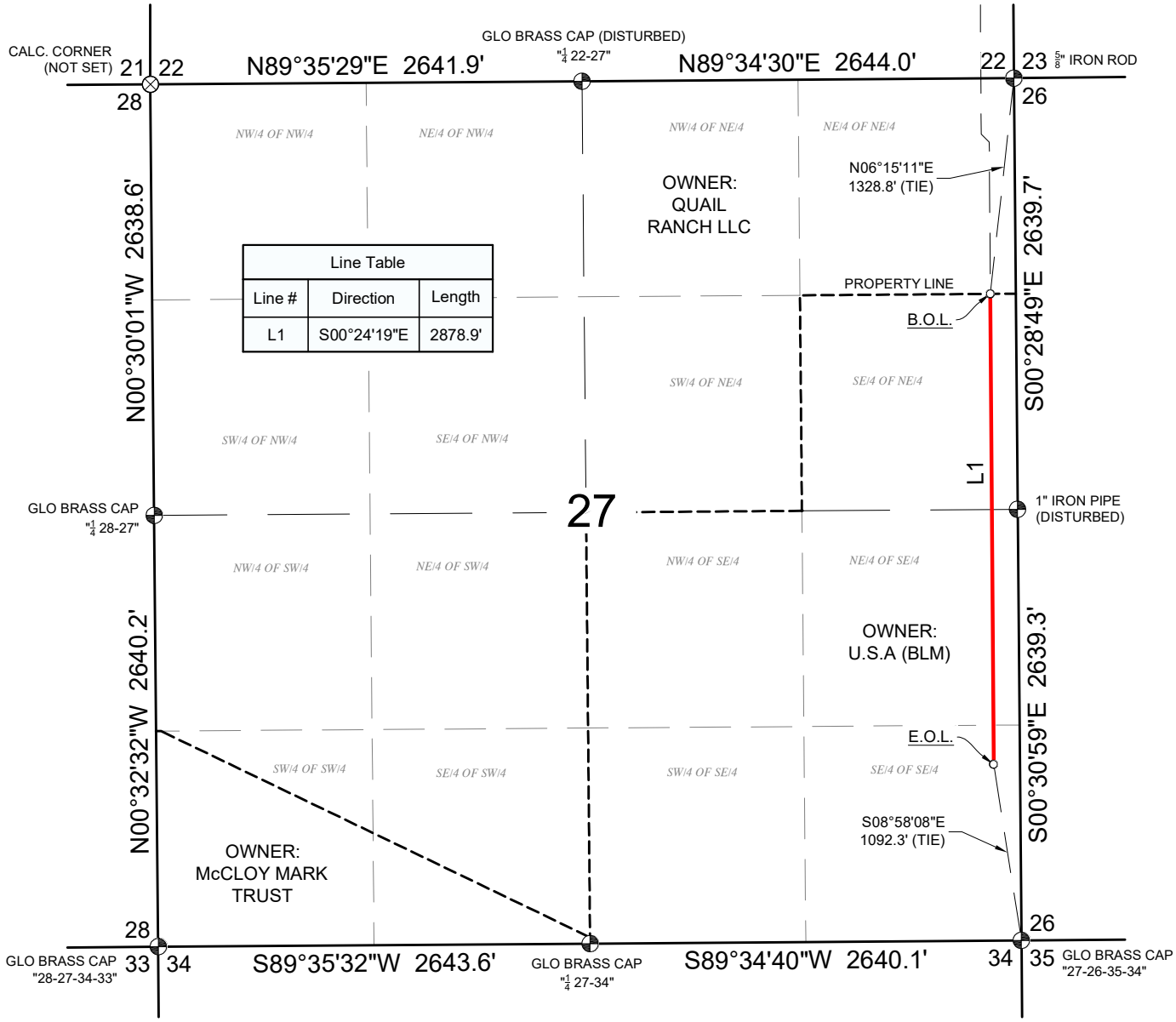
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(432) 756-5680
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FIELD DATE:	09/09/2020
DRAWING DATE:	02/25/2021
BY:	RMC
CHECKED:	KH
SITE NAME:	GRACKLE 23 EAST FED COM PAD A
SURFACE LOCATION:	SW 1/4 SE 1/4 SEC. 23, T24S, R34E, N.M. P.M. LEA COUNTY, NEW MEXICO
PREPARED FOR:	eog resources

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SECTION 27, TOWNSHIP 24 SOUTH, RANGE 34 EAST,
LEA COUNTY, NEW MEXICO



Line Table		
Line #	Direction	Length
L1	S00°24'19"E	2878.9'

GRACKLE 23 EAST FC CTB 700 ELECTRIC LINE

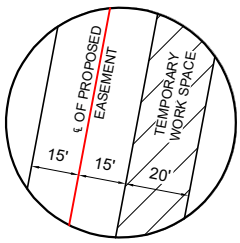
CENTERLINE DESCRIPTION

A STRIP OF LAND 30 FEET IN WIDTH AND 2878.9 FEET, 174.5 RODS OR 0.55 MILES IN LENGTH, SITUATED IN SECTION 27, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AND BEING 15 FEET LEFT AND 15 FEET RIGHT OF THE SURVEY OF CENTERLINE AS SHOWN HEREON.

- ELECTRIC LINE
- POINT FOR BEGIN/END OR ANGLE POINT
- FOUND MONUMENT AS SHOWN
- CALCULATED CORNER

NOTES:
- BEARINGS, COORDINATES, AND DISTANCES SHOWN HEREON ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83- 2011 (EPOCH 2010) FRAMEWORK, AS DERIVED BY OPUS SOLUTION.
- LAND OWNERSHIP INFORMATION REFLECTED HEREON WAS PROVIDED BY CLIENT AND/OR OBTAINED FROM PUBLIC DOMAIN DATA, NO INDEPENDENT OWNERSHIP SEARCH WAS PERFORMED BY ASCENT

0 500 1000'
SCALE: 1"= 1000'



TYPICAL N.T.S
PERMANENT EASEMENT, TEMPORARY WORK SPACE CONFIGURATION

06/28/2021
RALPH B. CHUSTZ, JR.
NEW MEXICO
26264
PROFESSIONAL SURVEYOR

I, RALPH B. CHUSTZ, JR., NEW MEXICO PROFESSIONAL SURVEYOR NO. 26264, DO HEREBY CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT PLAT OF A PROPOSED EASEMENT.

RALPH B. CHUSTZ, JR., N.M. P.L.S. **No.26264**

SURVEY DATE: 06/10/2021
JOB NO.: B20.EOG.0054
DRAFT: JW
SHEET: 1 OF 1

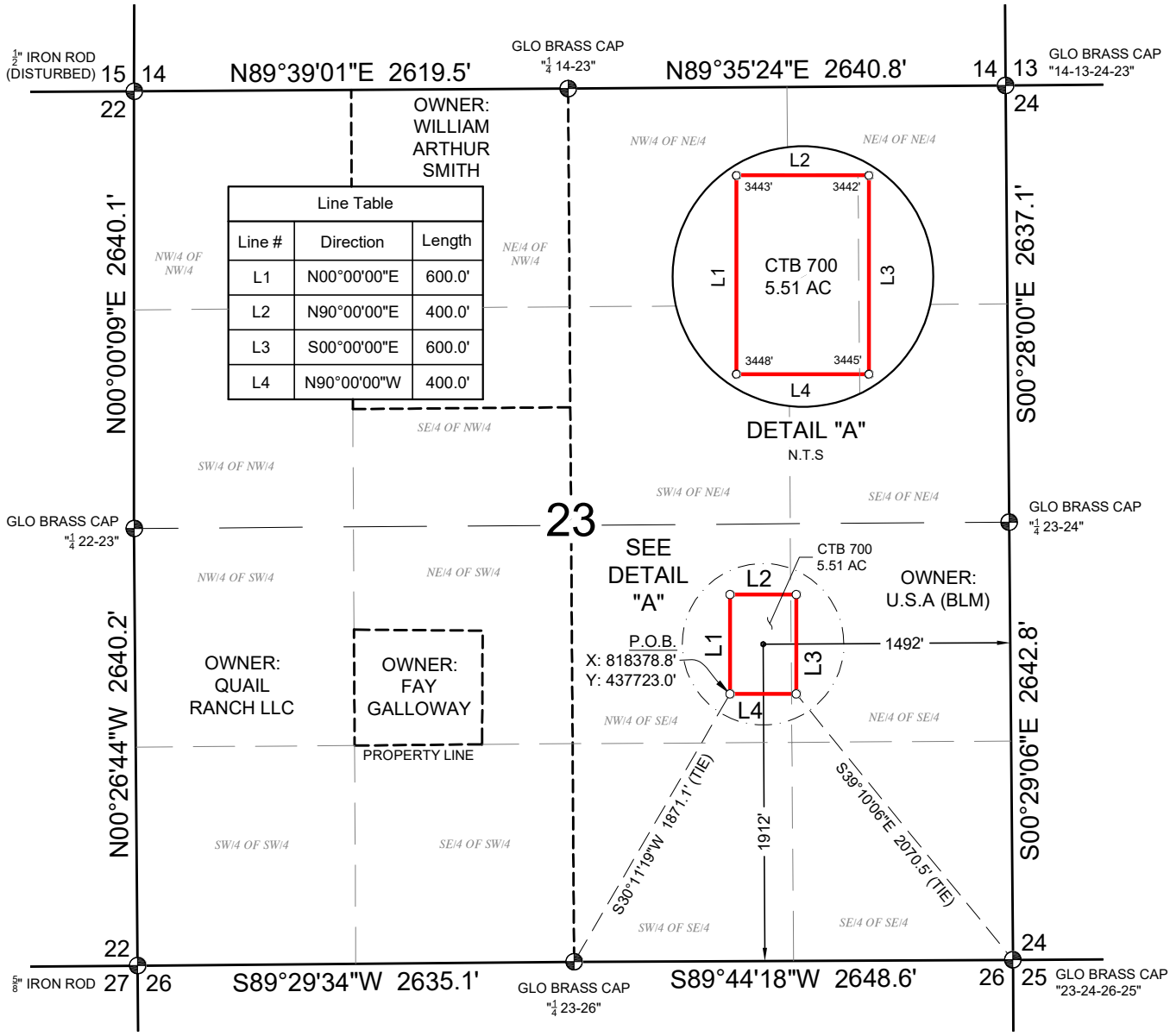
eog resources

GRACKLE 23 EAST FC CTB 700 PROPOSED ELECTRIC LINE CROSSING SEC. 27, T-24-S, R-34-E, N.M.P.M., LEA COUNTY, NEW MEXICO

ASCENT GEOMATICS SOLUTIONS
COLLECT-ANALYZE-DELIVER
GEOSPATIAL DATA
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680

PLAT: P:\EOG_B20\0054\PROD\ROW EXHIBITS\UTILITIES\GRACKLE_23_EAST_FED_COM_UTILITIES_CTB_700_SEC_27 JWILSON LAYOUT TAB: SHEET 1

SECTION 23, TOWNSHIP 24 SOUTH, RANGE 34 EAST,
LEA COUNTY, NEW MEXICO



GRACKLE 23 EAST FC CTB 700 SITE
SURFACE SITE DESCRIPTION

A PROPOSED SURFACE SITE SITUATED IN SECTION 23, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS;

BEGINNING AT A POINT FROM WHICH A 2" BRASS CAP FOUND AND ACCEPTED AS THE SOUTH QUARTER CORNER OF SAID SECTION 23 BEARS S30°11'19"W, 1871.1' FEET, SAID POINT BEING THE SOUTHWEST CORNER HEREOF;

THENCE THE FOLLOWING FOUR COURSES AND DISTANCES, N00°00'00"E, 600.0 FEET, N90°00'00"E, 400.0 FEET, S00°00'00"E, 600.0 FEET, N90°00'00"W, 400.0 FEET BACK TO THE **POINT OF BEGINNING**, CONTAINING 5.51 ACRES.

- SITE
- POINT FOR BEGIN/END OR ANGLE POINT
- FOUND MONUMENT AS SHOWN
- CALCULATED CORNER

0 500 1000'
SCALE: 1"= 1000'

NOTES:
- BEARINGS, COORDINATES, AND DISTANCES SHOWN HEREON ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83- 2011 (EPOCH 2010) FRAMEWORK, AS DERIVED BY OPUS SOLUTION.
- LAND OWNERSHIP INFORMATION REFLECTED HEREON WAS PROVIDED BY CLIENT AND/OR OBTAINED FROM PUBLIC DOMAIN DATA, NO INDEPENDENT OWNERSHIP SEARCH WAS PERFORMED BY ASCENT

06/28/2021
RALPH B. CHUSTZ, JR. NEW MEXICO 26264 PROFESSIONAL SURVEYOR

I, RALPH B CHUSTZ, JR, NEW MEXICO PROFESSIONAL SURVEYOR NO. 26264, DO HEREBY CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT PLAT OF A PROPOSED EASEMENT.

RALPH B. CHUSTZ, JR., N.M. P.L.S. **No.26264**

SURVEY DATE: 06/10/2021
JOB NO.: B20.EOG.0054
DRAFT: JEB
SHEET: 1 OF 1

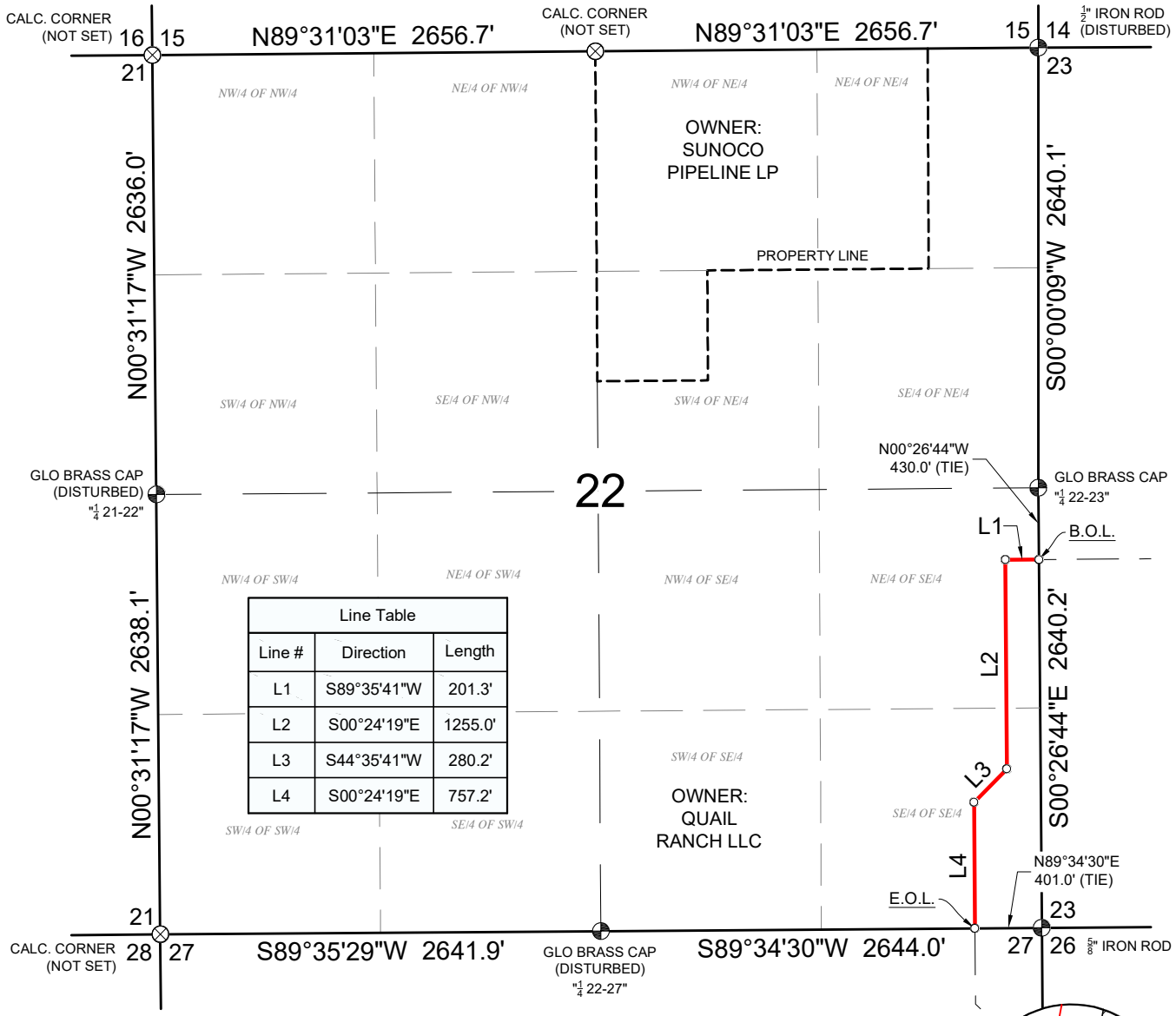
eog resources

GRACKLE 23 EAST FC CTB 700 PROPOSED SITE
SEC. 23, T-24-S, R-34-E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

ASCENT GEOMATICS SOLUTIONS
COLLECT-ANALYZE-DELIVER
GEOSPATIAL DATA
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680

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SECTION 22, TOWNSHIP 24 SOUTH, RANGE 34 EAST,
LEA COUNTY, NEW MEXICO



Line Table		
Line #	Direction	Length
L1	S89°35'41"W	201.3'
L2	S00°24'19"E	1255.0'
L3	S44°35'41"W	280.2'
L4	S00°24'19"E	757.2'

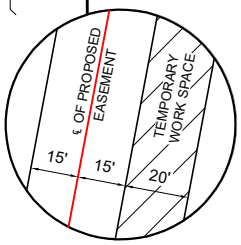
GRACKLE 23 EAST FC CTB 700 ELECTRIC LINE
CENTERLINE DESCRIPTION

A PROPOSED ELECTRIC LINE SITUATED IN THE EAST HALF OF THE SOUTHEAST QUARTER OF SECTION 22, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AS CONVEYED TO QUAIL RANCH LLC, AND BEING 15 FEET LEFT AND 15 FEET RIGHT OF THE SURVEY OF CENTERLINE AS SHOWN HEREON AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS;

BEGINNING AT A POINT, FROM WHICH A GLO BRASS CAP FOUND AND ACCEPTED AS THE EAST QUARTER CORNER OF SAID SECTION 22 BEARS N00°26'44"W, 430.0 FEET, FOR THE BEGINNING OF THE HEREIN DESCRIBED CENTERLINE;

THENCE THE FOLLOWING THREE (3) COURSE, S89°35'41"W, 201.3 FEET, S00°24'19"E, 1255.0 FEET, S44°35'41"W, 280.2 FEET, TO AN ANGLE POINT HEREOF;

THENCE S00°24'19"E, 757.2 FEET TO A POINT, BEING THE END OF THE DESCRIBED CENTERLINE, FROM WHICH A ⅝" IRON ROD FOUND AND ACCEPTED AS THE SOUTHEAST CORNER OF SAID SECTION 22 BEARS N89°34'30"E, 401.0 FEET, IN ALL BEING 2493.7 FEET OR 151.1 RODS IN LENGTH.



TYPICAL N.T.S
PERMANENT EASEMENT, TEMPORARY WORK SPACE CONFIGURATION

NOTES:
- BEARINGS, COORDINATES, AND DISTANCES SHOWN HEREON ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83- 2011 (EPOCH 2010) FRAMEWORK, AS DERIVED BY OPUS SOLUTION.
- LAND OWNERSHIP INFORMATION REFLECTED HEREON WAS PROVIDED BY CLIENT AND/OR OBTAINED FROM PUBLIC DOMAIN DATA, NO INDEPENDENT OWNERSHIP SEARCH WAS PERFORMED BY ASCENT

0 500 1000'
SCALE: 1"= 1000'

ELECTRIC LINE
POINT FOR BEGIN/END OR ANGLE POINT
FOUND MONUMENT AS SHOWN
CALCULATED CORNER

8/16/2021
RALPH B. CHUSTZ, JR. NEW MEXICO 26264 PROFESSIONAL SURVEYOR

I, RALPH B. CHUSTZ, JR., NEW MEXICO PROFESSIONAL SURVEYOR NO. 26264, DO HEREBY CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT PLAT OF A PROPOSED EASEMENT.

RALPH B. CHUSTZ, JR., N.M. P.L.S. **No.26264**

SURVEY DATE: 06/10/2021
JOB NO.: B20.EOG.0054
DRAFT: JW
SHEET: 1 OF 1

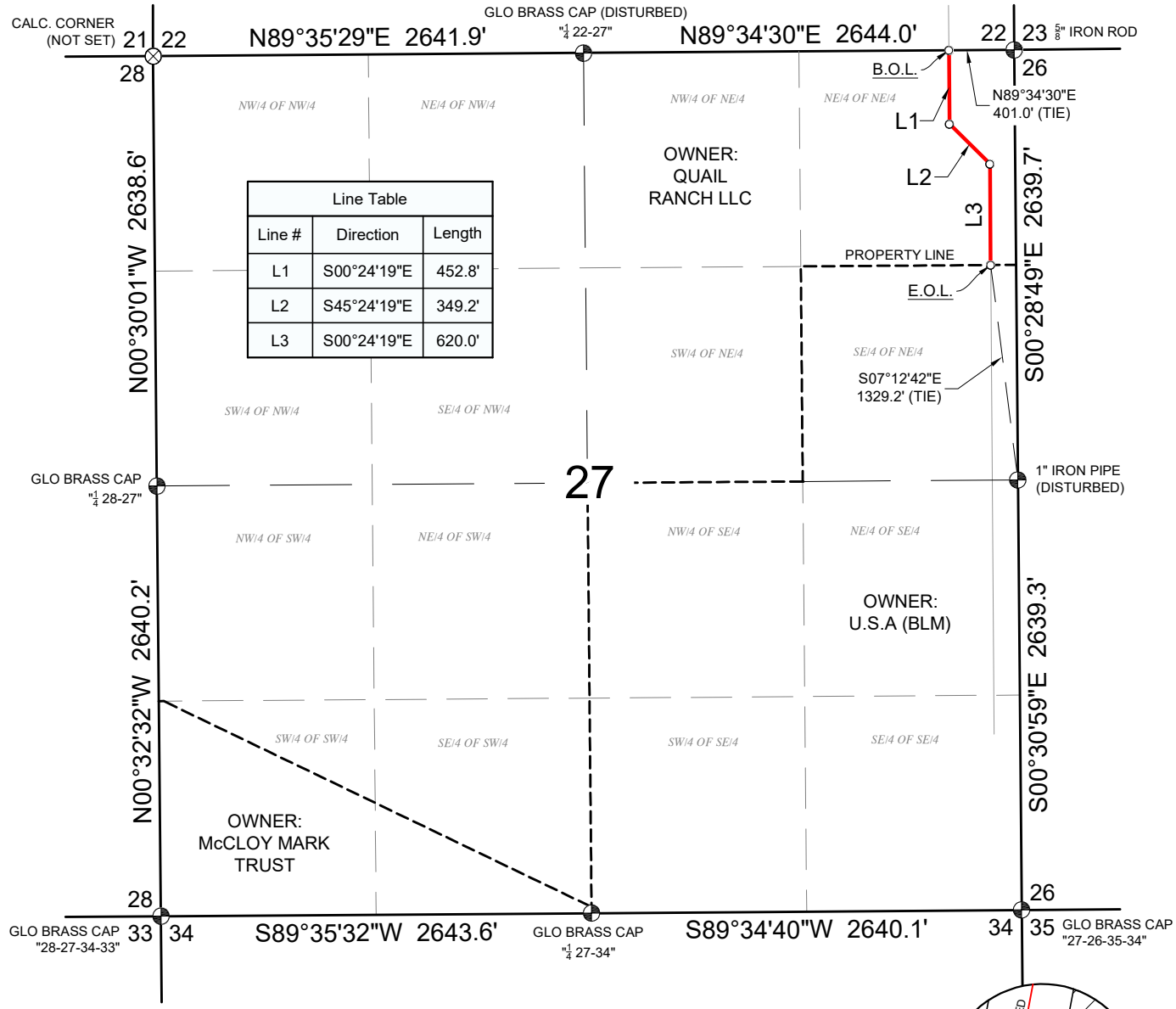
eog resources

GRACKLE 23 EAST FC CTB 700 PROPOSED ELECTRIC LINE CROSSING SEC. 22, T-24-S, R-34-E, N.M.P.M., LEA COUNTY, NEW MEXICO

ASCENT GEOMATICS SOLUTIONS
COLLECT-ANALYZE-DELIVER
GEOSPATIAL DATA
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680

PLAT: P:\EOG_B20\0054\PROD\ROW EXHIBITS\UTILITIES\GRACKLE_23_EAST_FED_COM_UTILITIES_CTB_700_SEC_22 JWILSON LAYOUT TAB: SHEET 1

SECTION 27, TOWNSHIP 24 SOUTH, RANGE 34 EAST,
LEA COUNTY, NEW MEXICO



Line Table		
Line #	Direction	Length
L1	S00°24'19"E	452.8'
L2	S45°24'19"E	349.2'
L3	S00°24'19"E	620.0'

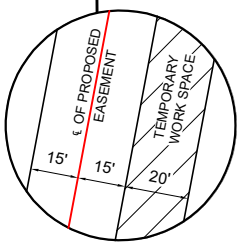
GRACKLE 23 EAST FC CTB 700 ELECTRIC LINE
CENTERLINE DESCRIPTION

A PROPOSED ELECTRIC LINE SITUATED IN THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 27, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AS CONVEYED TO QUAIL RANCH LLC, AND BEING 15 FEET LEFT AND 15 FEET RIGHT OF THE SURVEY OF CENTERLINE AS SHOWN HEREON AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS;

BEGINNING AT A POINT, FROM WHICH A 5/8" IRON ROD FOUND AND ACCEPTED AS THE NORTHEAST CORNER OF SAID SECTION 27 BEARS N89°34'30"E, 401.0 FEET, FOR THE BEGINNING OF THE HEREIN DESCRIBED CENTERLINE;

THENCE THE FOLLOWING TWO (2) COURSES, S00°24'19"E, 452.8 FEET, S45°24'19"E, 349.2 FEET, TO AN ANGLE POINT HEREOF;

THENCE S00°24'19"E, 620.0 FEET TO A POINT, BEING THE END OF THE DESCRIBED CENTERLINE, FROM WHICH A 1" IRON PIPE FOUND AND ACCEPTED AS THE EAST QUARTER CORNER OF SAID SECTION 27 BEARS S07°12'42"E, 1329.2 FEET, IN ALL BEING 1422.0 FEET OR 86.2 RODS IN LENGTH.



TYPICAL N.T.S
PERMANENT EASEMENT, TEMPORARY WORK SPACE CONFIGURATION

NOTES:
- BEARINGS, COORDINATES, AND DISTANCES SHOWN HEREON ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83- 2011 (EPOCH 2010) FRAMEWORK, AS DERIVED BY OPUS SOLUTION.
- LAND OWNERSHIP INFORMATION REFLECTED HEREON WAS PROVIDED BY CLIENT AND/OR OBTAINED FROM PUBLIC DOMAIN DATA, NO INDEPENDENT OWNERSHIP SEARCH WAS PERFORMED BY ASCENT

0 500 1000'
SCALE: 1"= 1000'

- ELECTRIC LINE
- POINT FOR BEGIN/END OR ANGLE POINT
- FOUND MONUMENT AS SHOWN
- CALCULATED CORNER

08/16/2021
RALPH B. CHUSTZ, JR. NEW MEXICO 26264 PROFESSIONAL SURVEYOR

I, RALPH B. CHUSTZ, JR., NEW MEXICO PROFESSIONAL SURVEYOR NO. 26264, DO HEREBY CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT PLAT OF A PROPOSED EASEMENT.

RALPH B. CHUSTZ, JR., N.M. P.L.S. **No.26264**

SURVEY DATE: 06/10/2021
JOB NO.: B20.EOG.0054
DRAFT: JW
SHEET: 1 OF 1

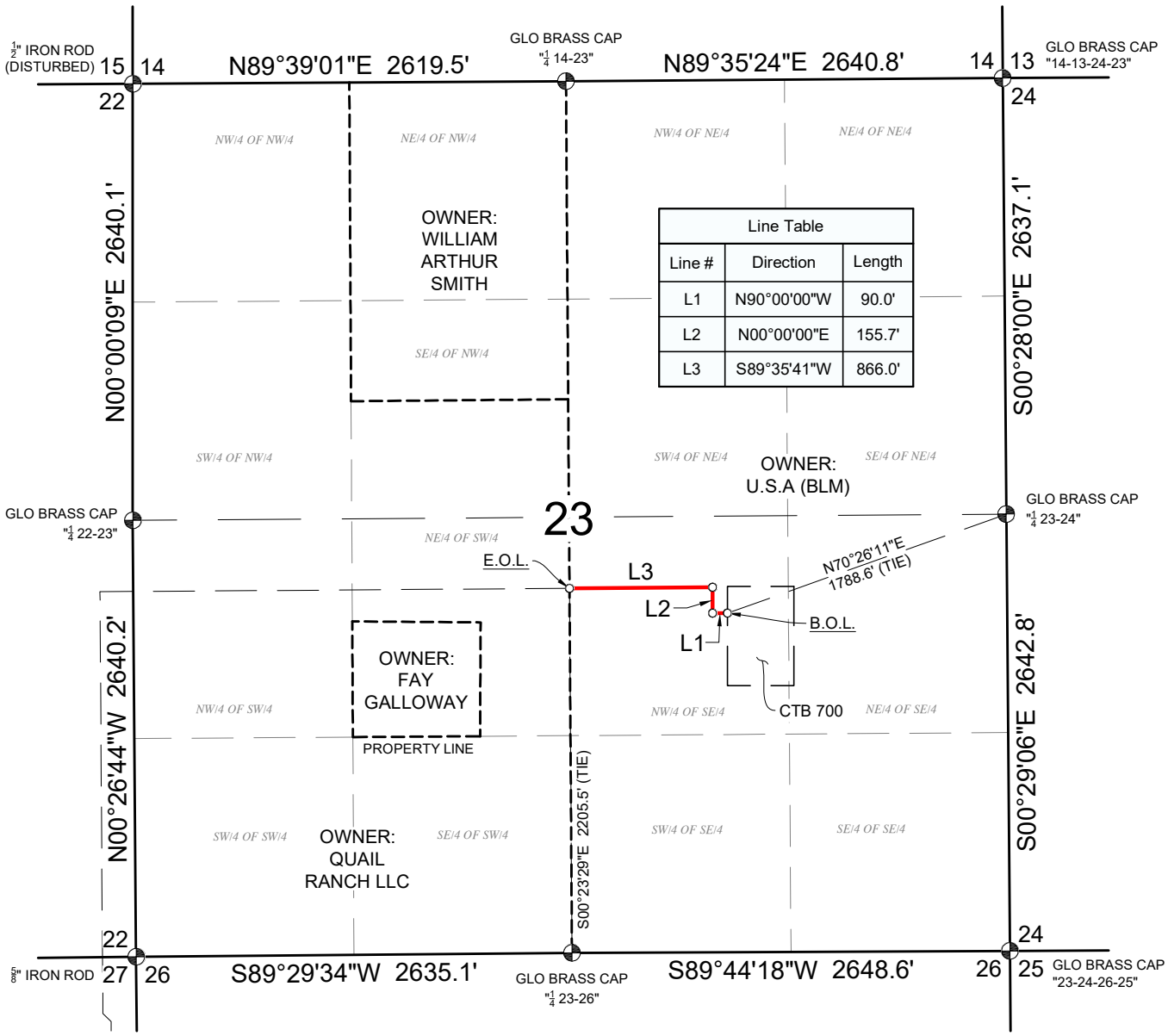
eog resources

GRACKLE 23 EAST FC CTB 700 PROPOSED ELECTRIC LINE CROSSING SEC. 27, T-24-S, R-34-E, N.M.P.M., LEA COUNTY, NEW MEXICO

ASCENT GEOMATICS SOLUTIONS
COLLECT-ANALYZE-DELIVER
GEOSPATIAL DATA
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680

PLAT: P:\EOG_B20\0054\PROD\ROW EXHIBITS\UTILITIES\GRACKLE_23_EAST_FED_COM_UTILITIES_CTB_700_SEC_27 JWILSON LAYOUT TAB: SHEET 1

SECTION 23, TOWNSHIP 24 SOUTH, RANGE 34 EAST,
LEA COUNTY, NEW MEXICO

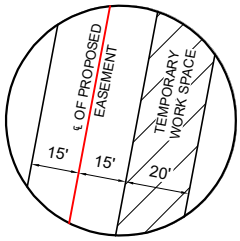


Line Table		
Line #	Direction	Length
L1	N90°00'00"W	90.0'
L2	N00°00'00"E	155.7'
L3	S89°35'41"W	866.0'

GRACKLE 23 EAST FC CTB 700 ELECTRIC LINE

CENTERLINE DESCRIPTION

A STRIP OF LAND 30 FEET IN WIDTH AND 1111.7 FEET, 67.4 RODS OR 0.21 MILES IN LENGTH, SITUATED IN SECTION 23, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AND BEING 15 FEET LEFT AND 15 FEET RIGHT OF THE SURVEY OF CENTERLINE AS SHOWN HEREON.



TYPICAL N.T.S
PERMANENT EASEMENT, TEMPORARY WORK SPACE CONFIGURATION

- ELECTRIC LINE
- POINT FOR BEGIN/END OR ANGLE POINT
- FOUND MONUMENT AS SHOWN
- CALCULATED CORNER

0 500 1000'
SCALE: 1"= 1000'

NOTES:
- BEARINGS, COORDINATES, AND DISTANCES SHOWN HEREON ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83- 2011 (EPOCH 2010) FRAMEWORK, AS DERIVED BY OPUS SOLUTION.
- LAND OWNERSHIP INFORMATION REFLECTED HEREON WAS PROVIDED BY CLIENT AND/OR OBTAINED FROM PUBLIC DOMAIN DATA, NO INDEPENDENT OWNERSHIP SEARCH WAS PERFORMED BY ASCENT

06/28/2021
RALPH B. CHUSTZ, JR. NEW MEXICO 26264 PROFESSIONAL SURVEYOR

I, RALPH B. CHUSTZ, JR., NEW MEXICO PROFESSIONAL SURVEYOR NO. 26264, DO HEREBY CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT PLAT OF A PROPOSED EASEMENT.

RALPH B. CHUSTZ, JR., N.M. P.L.S. **No.26264**

SURVEY DATE: 06/10/2021
JOB NO.: B20.EOG.0054
DRAFT: JW
SHEET: 1 OF 1

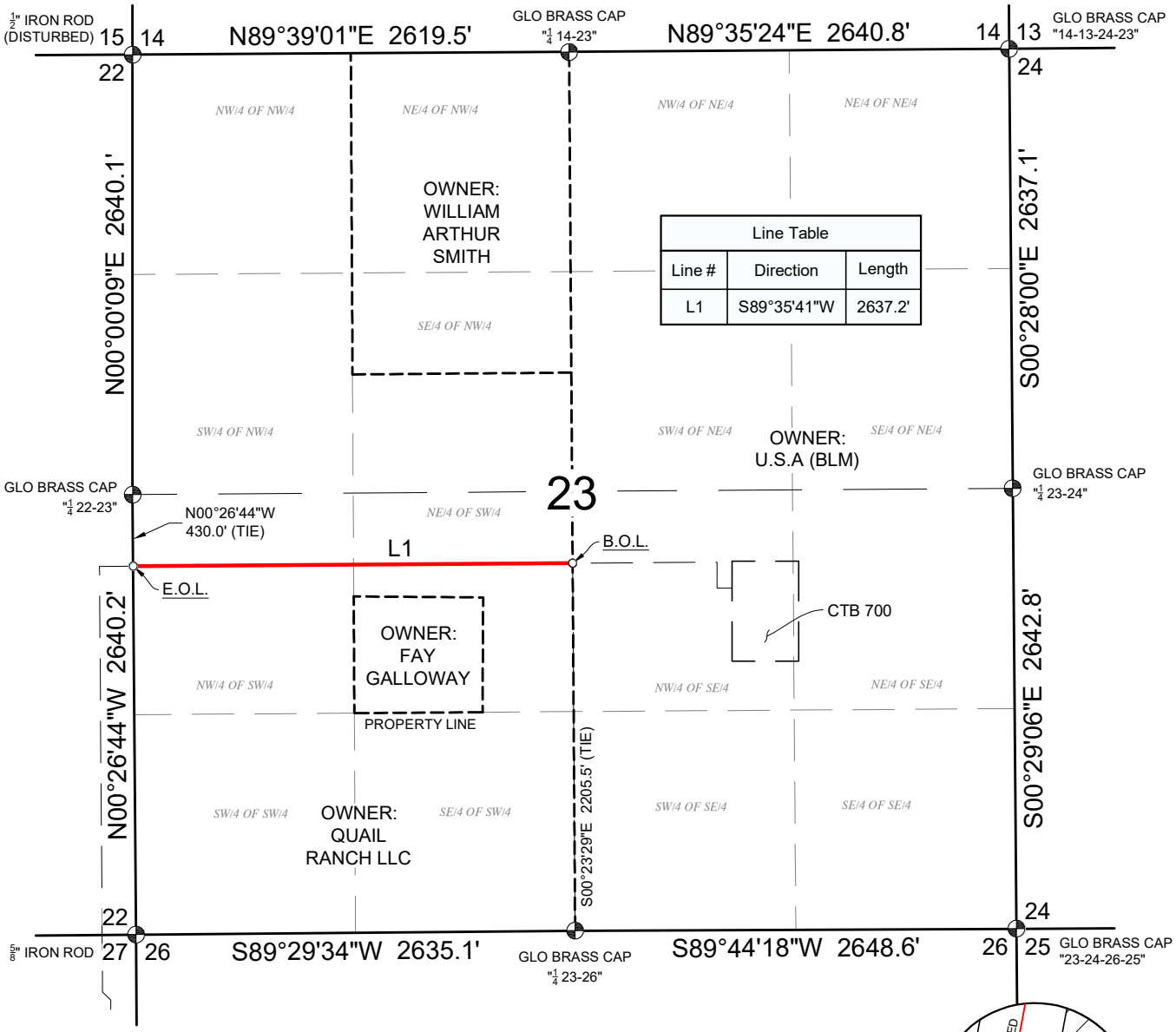
eog resources

GRACKLE 23 EAST FC CTB 700 PROPOSED ELECTRIC LINE CROSSING SEC. 23, T-24-S, R-34-E, N.M.P.M., LEA COUNTY, NEW MEXICO

ASCENT GEOMATICS SOLUTIONS
COLLECT-ANALYZE-DELIVER
GEOSPATIAL DATA
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680

PLAT: P:\EOG_B20\0054\PROD\ROW EXHIBITS\UTILITIES\GRACKLE_23_EAST_FED_COM_UTILITIES_CTB_700_SEC_23 JWILSON LAYOUT TAB: SHEET 1

SECTION 23, TOWNSHIP 24 SOUTH, RANGE 34 EAST,
LEA COUNTY, NEW MEXICO



Line Table		
Line #	Direction	Length
L1	S89°35'41"W	2637.2'

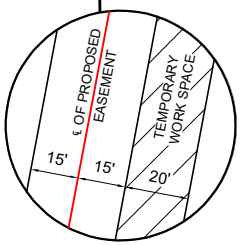
GRACKLE 23 EAST FC CTB 700 ELECTRIC LINE

CENTERLINE DESCRIPTION

A PROPOSED ELECTRIC LINE SITUATED IN THE NORTH HALF OF THE SOUTHWEST QUARTER OF SECTION 23, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AS CONVEYED TO QUAIL RANCH LLC, AND BEING 15 FEET LEFT AND 15 FEET RIGHT OF THE SURVEY OF CENTERLINE AS SHOWN HEREON AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS;

BEGINNING AT A POINT, FROM WHICH A GLO BRASS CAP FOUND AND ACCEPTED AS THE SOUTH QUARTER CORNER OF SAID SECTION 23 BEARS S00°23'29"E, 2205.5 FEET, FOR THE BEGINNING OF THE HEREIN DESCRIBED CENTERLINE;

THENCE THE FOLLOWING ONE (1) COURSE, S89°35'41"W, 2637.2 FEET TO A POINT, BEING THE END OF THE DESCRIBED CENTERLINE, FROM WHICH A GLO BRASS CAP FOUND AND ACCEPTED AS THE WEST QUARTER CORNER OF SAID SECTION 23 BEARS N00°26'44"W, 430.0 FEET, IN ALL BEING 2637.2 FEET OR 159.8 RODS IN LENGTH.



TYPICAL N.T.S
PERMANENT EASEMENT, TEMPORARY WORK SPACE CONFIGURATION

NOTES:
- BEARINGS, COORDINATES, AND DISTANCES SHOWN HEREON ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83- 2011 (EPOCH 2010) FRAMEWORK, AS DERIVED BY OPUS SOLUTION.
- LAND OWNERSHIP INFORMATION REFLECTED HEREON WAS PROVIDED BY CLIENT AND/OR OBTAINED FROM PUBLIC DOMAIN DATA, NO INDEPENDENT OWNERSHIP SEARCH WAS PERFORMED BY ASCENT

0 500 1000'
SCALE: 1"= 1000'

- ELECTRIC LINE
- POINT FOR BEGIN/END OR ANGLE POINT
- FOUND MONUMENT AS SHOWN
- CALCULATED CORNER

06/28/2021
RALPH B. CHUSTZ, JR. NEW MEXICO 26264 PROFESSIONAL SURVEYOR

I, RALPH B. CHUSTZ, JR., NEW MEXICO PROFESSIONAL SURVEYOR NO. 26264, DO HEREBY CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT PLAT OF A PROPOSED EASEMENT.

RALPH B. CHUSTZ, JR., N.M. P.L.S. **No.26264**

SURVEY DATE: 06/10/2021
JOB NO.: B20.EOG.0054
DRAFT: JW
SHEET: 1 OF 1

eog resources

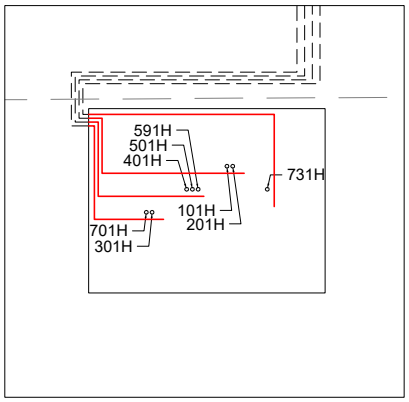
GRACKLE 23 EAST FC CTB 700 PROPOSED ELECTRIC LINE CROSSING SEC. 23, T-24-S, R-34-E, N.M.P.M., LEA COUNTY, NEW MEXICO

ASCENT GEOMATICS SOLUTIONS
COLLECT-ANALYZE-DELIVER
GEOSPATIAL DATA
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680

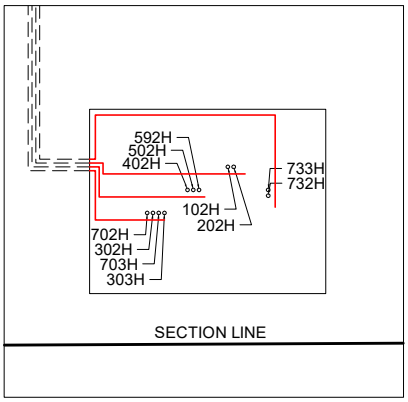
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SECTION 23, TOWNSHIP 24 SOUTH, RANGE 34 EAST,
LEA COUNTY, NEW MEXICO

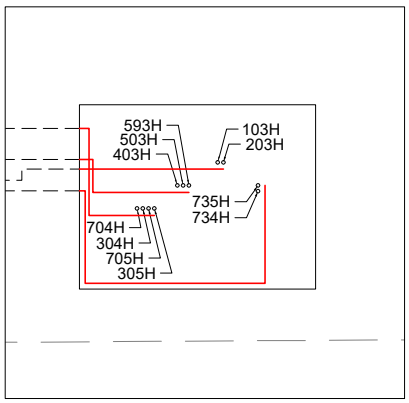
PAD A
SCALE: 1" = 500'



PAD B
SCALE: 1" = 500'



PAD C
SCALE: 1" = 500'



NOTES:
- BEARINGS, COORDINATES, AND DISTANCES SHOWN HEREON ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83- 2011 (EPOCH 2010) FRAMEWORK, AS DERIVED BY OPUS SOLUTION.
- LAND OWNERSHIP INFORMATION REFLECTED HEREON WAS PROVIDED BY CLIENT AND/OR OBTAINED FROM PUBLIC DOMAIN DATA, NO INDEPENDENT OWNERSHIP SEARCH WAS PERFORMED BY ASCENT

0 250' 500'
SCALE: 1"= 500'

I, RALPH B. CHUSTZ, JR., NEW MEXICO PROFESSIONAL SURVEYOR NO. 26264, DO HEREBY CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT PLAT OF A PROPOSED EASEMENT.

RALPH B. CHUSTZ, JR., N.M. P.L.S. **No.26264**

SURVEY DATE: 06/10/2021
JOB NO.: B20.EOG.0054
DRAFT: JW
SHEET: 1 OF 1

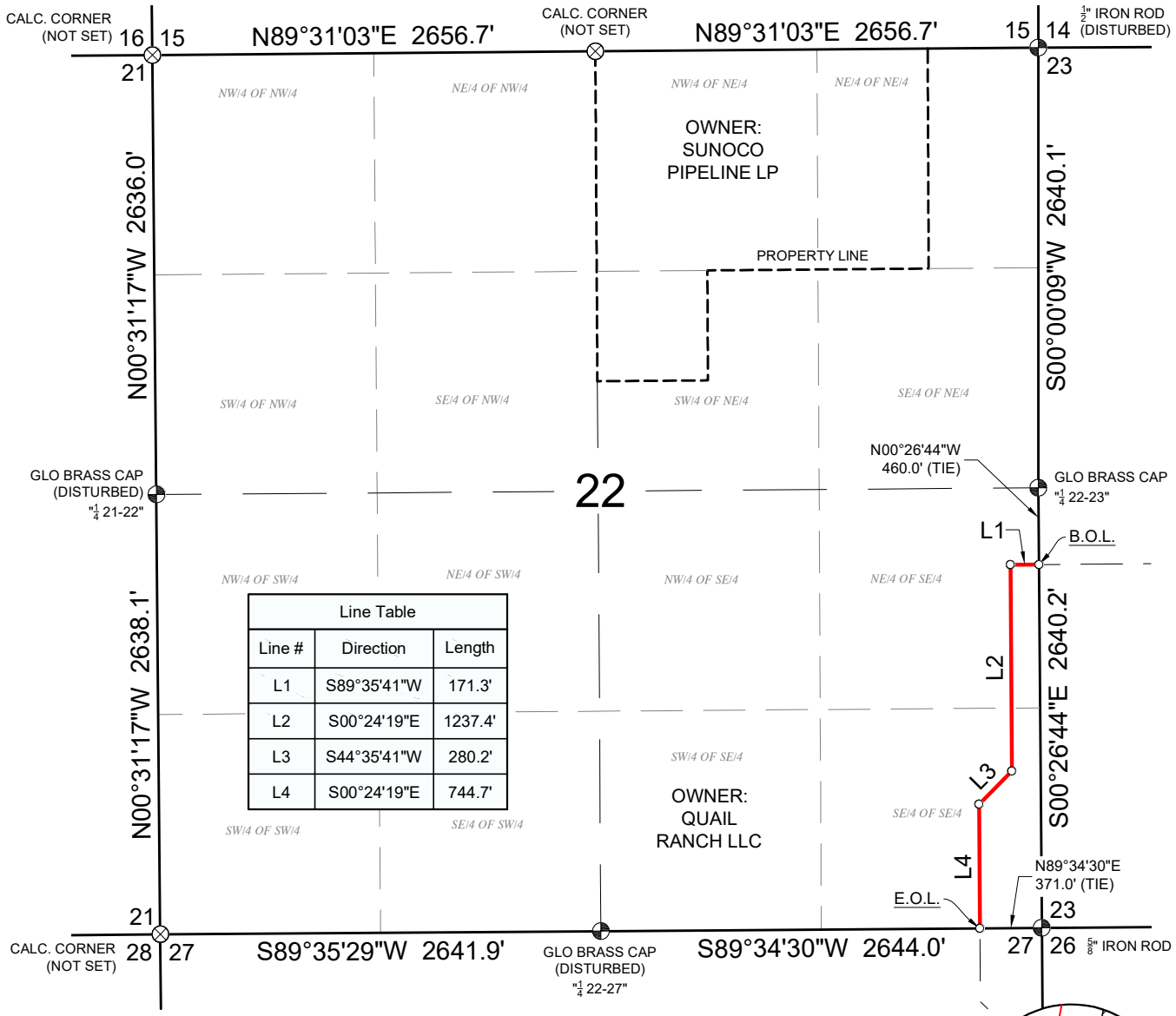
eog resources

GRACKLE 23 EAST FC PROPOSED FLOWLINE & GAS LIFT DETAILS IN SEC. 23, T-24-S, R-34-E, N.M.P.M., LEA COUNTY, NEW MEXICO

ASCENT GEOMATICS SOLUTIONS
COLLECT-ANALYZE-DELIVER
GEOSPATIAL DATA
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680

PLAT: P:\EOG__B20054\PRODUCTION\ROW EXHIBITS\FLOWLINES\GRACKLE_23_EAST_FED_COM_FLOWLINES_R1 LAYOUT TAB: SHEET 1

SECTION 22, TOWNSHIP 24 SOUTH, RANGE 34 EAST,
LEA COUNTY, NEW MEXICO



Line Table		
Line #	Direction	Length
L1	S89°35'41"W	171.3'
L2	S00°24'19"E	1237.4'
L3	S44°35'41"W	280.2'
L4	S00°24'19"E	744.7'

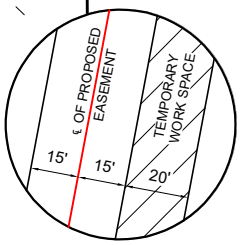
GRACKLE 23 EAST FC CTB 700 GAS LINE
CENTERLINE DESCRIPTION

A PROPOSED GAS LINE SITUATED IN THE EAST HALF OF THE SOUTHEAST QUARTER OF SECTION 22, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AS CONVEYED TO QUAIL RANCH LLC, AND BEING 15 FEET LEFT AND 15 FEET RIGHT OF THE SURVEY OF CENTERLINE AS SHOWN HEREON AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS;

BEGINNING AT A POINT, FROM WHICH A GLO BRASS CAP FOUND AND ACCEPTED AS THE EAST QUARTER CORNER OF SAID SECTION 22 BEARS N00°26'44"W, 460.0 FEET, FOR THE BEGINNING OF THE HEREIN DESCRIBED CENTERLINE;

THENCE THE FOLLOWING THREE (3) COURSE, S89°35'41"W, 171.3 FEET, S00°24'19"E, 1237.4 FEET, S44°35'41"W, 280.2 FEET, TO AN ANGLE POINT HEREOF;

THENCE S00°24'19"E, 744.7 FEET TO A POINT, BEING THE END OF THE DESCRIBED CENTERLINE, FROM WHICH A ⅝" IRON ROD FOUND AND ACCEPTED AS THE SOUTHEAST CORNER OF SAID SECTION 22 BEARS N89°34'30"E, 371.0 FEET, IN ALL BEING 2433.6 FEET OR 147.5 RODS IN LENGTH.



TYPICAL N.T.S
PERMANENT EASEMENT, TEMPORARY WORK SPACE CONFIGURATION

NOTES:
- BEARINGS, COORDINATES, AND DISTANCES SHOWN HEREON ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83- 2011 (EPOCH 2010) FRAMEWORK, AS DERIVED BY OPUS SOLUTION.
- LAND OWNERSHIP INFORMATION REFLECTED HEREON WAS PROVIDED BY CLIENT AND/OR OBTAINED FROM PUBLIC DOMAIN DATA, NO INDEPENDENT OWNERSHIP SEARCH WAS PERFORMED BY ASCENT

0 500 1000'
SCALE: 1"= 1000'

GAS LINE
POINT FOR BEGIN/END OR ANGLE POINT
FOUND MONUMENT AS SHOWN
CALCULATED CORNER

8/11/2021
RALPH B. CHUSTZ, JR. NEW MEXICO 26264 PROFESSIONAL SURVEYOR

I, RALPH B. CHUSTZ, JR., NEW MEXICO PROFESSIONAL SURVEYOR NO. 26264, DO HEREBY CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT PLAT OF A PROPOSED EASEMENT.

RALPH B. CHUSTZ, JR., N.M. P.L.S. **No.26264**

SURVEY DATE: 06/10/2021
JOB NO.: B20.EOG.0054
DRAFT: JW
SHEET: 1 OF 1

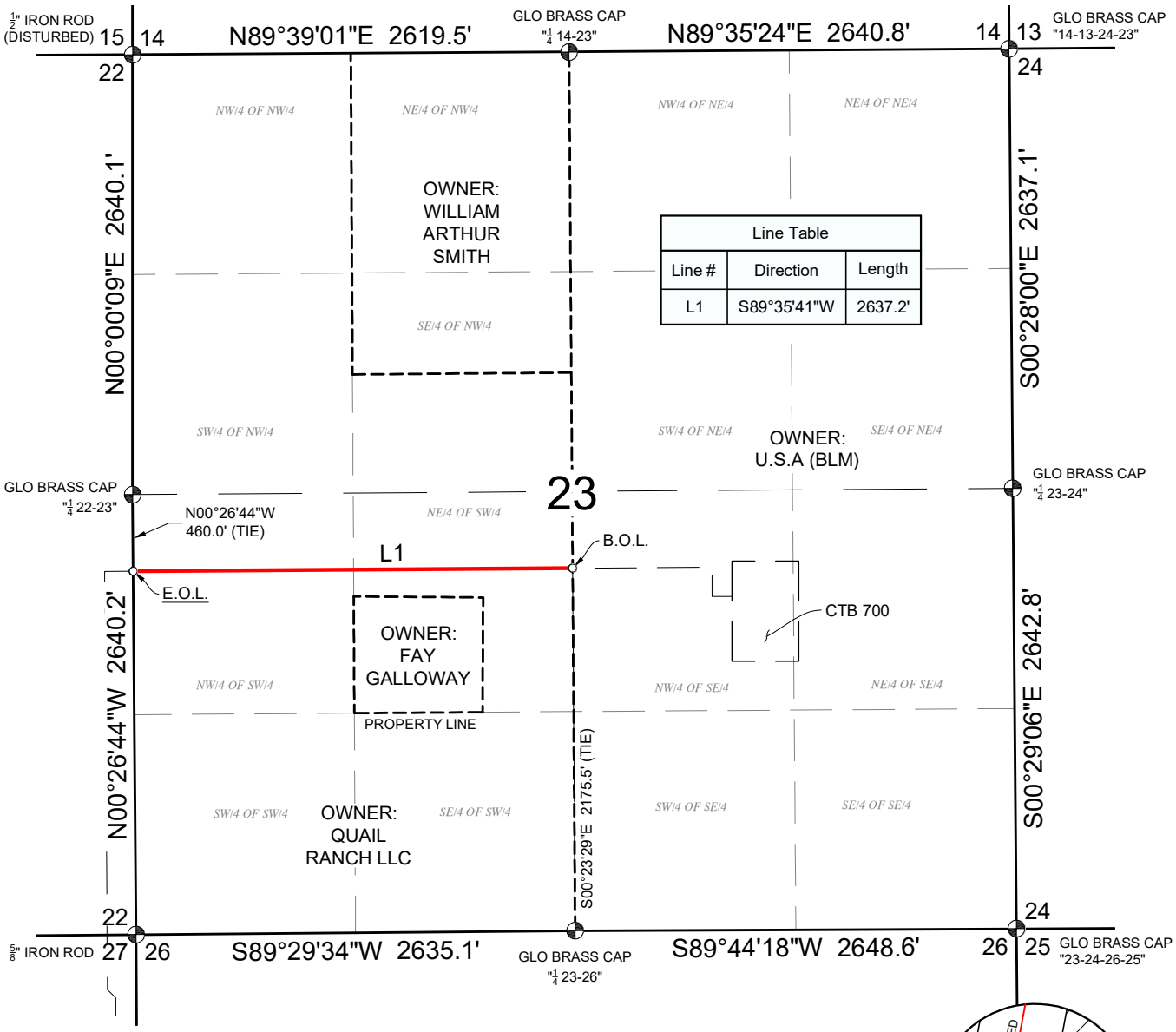
eog resources

GRACKLE 23 EAST FC CTB 700 PROPOSED GAS LINE
CROSSING SEC. 22, T-24-S, R-34-E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

ASCENT GEOMATICS SOLUTIONS
COLLECT-ANALYZE-DELIVER
GEOSPATIAL DATA
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680

PLAT: P:\EOG_B20\0054\PROD\ROW EXHIBITS\UTILITIES\GRACKLE_23_EAST_FED_COM_UTILITIES_CTB_700_SEC_22 JWILSON LAYOUT TAB: SHEET 1

SECTION 23, TOWNSHIP 24 SOUTH, RANGE 34 EAST,
LEA COUNTY, NEW MEXICO

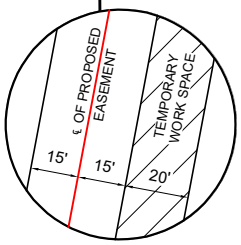


GRACKLE 23 EAST FC CTB 700 GAS LINE
CENTERLINE DESCRIPTION

A PROPOSED GAS LINE SITUATED IN THE NORTH HALF OF THE SOUTHWEST QUARTER OF SECTION 23, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AS CONVEYED TO QUAIL RANCH LLC, AND BEING 15 FEET LEFT AND 15 FEET RIGHT OF THE SURVEY OF CENTERLINE AS SHOWN HEREON AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS;

BEGINNING AT A POINT, FROM WHICH A GLO BRASS CAP FOUND AND ACCEPTED AS THE SOUTH QUARTER CORNER OF SAID SECTION 23 BEARS S00°23'29"E, 2175.5 FEET, FOR THE BEGINNING OF THE HEREIN DESCRIBED CENTERLINE;

THENCE THE FOLLOWING ONE (1) COURSE, S89°35'41"W, 2637.2 FEET TO A POINT, BEING THE END OF THE DESCRIBED CENTERLINE, FROM WHICH A GLO BRASS CAP FOUND AND ACCEPTED AS THE WEST QUARTER CORNER OF SAID SECTION 23 BEARS N00°26'44"W, 460.0 FEET, IN ALL BEING 2637.2 FEET OR 159.8 RODS IN LENGTH.



TYPICAL N.T.S
PERMANENT EASEMENT, TEMPORARY WORK SPACE CONFIGURATION

NOTES:
- BEARINGS, COORDINATES, AND DISTANCES SHOWN HEREON ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83- 2011 (EPOCH 2010) FRAMEWORK, AS DERIVED BY OPUS SOLUTION.
- LAND OWNERSHIP INFORMATION REFLECTED HEREON WAS PROVIDED BY CLIENT AND/OR OBTAINED FROM PUBLIC DOMAIN DATA, NO INDEPENDENT OWNERSHIP SEARCH WAS PERFORMED BY ASCENT

0 500 1000'
SCALE: 1"= 1000'

GAS LINE
POINT FOR BEGIN/END OR ANGLE POINT
FOUND MONUMENT AS SHOWN
CALCULATED CORNER

06/28/2021
RALPH B. CHUSTZ, JR. NEW MEXICO 26264 PROFESSIONAL SURVEYOR

I, RALPH B. CHUSTZ, JR., NEW MEXICO PROFESSIONAL SURVEYOR NO. 26264, DO HEREBY CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT PLAT OF A PROPOSED EASEMENT.

RALPH B. CHUSTZ, JR., N.M. P.L.S. **No.26264**

SURVEY DATE: 06/10/2021
JOB NO.: B20.EOG.0054
DRAFT: JW
SHEET: 1 OF 1

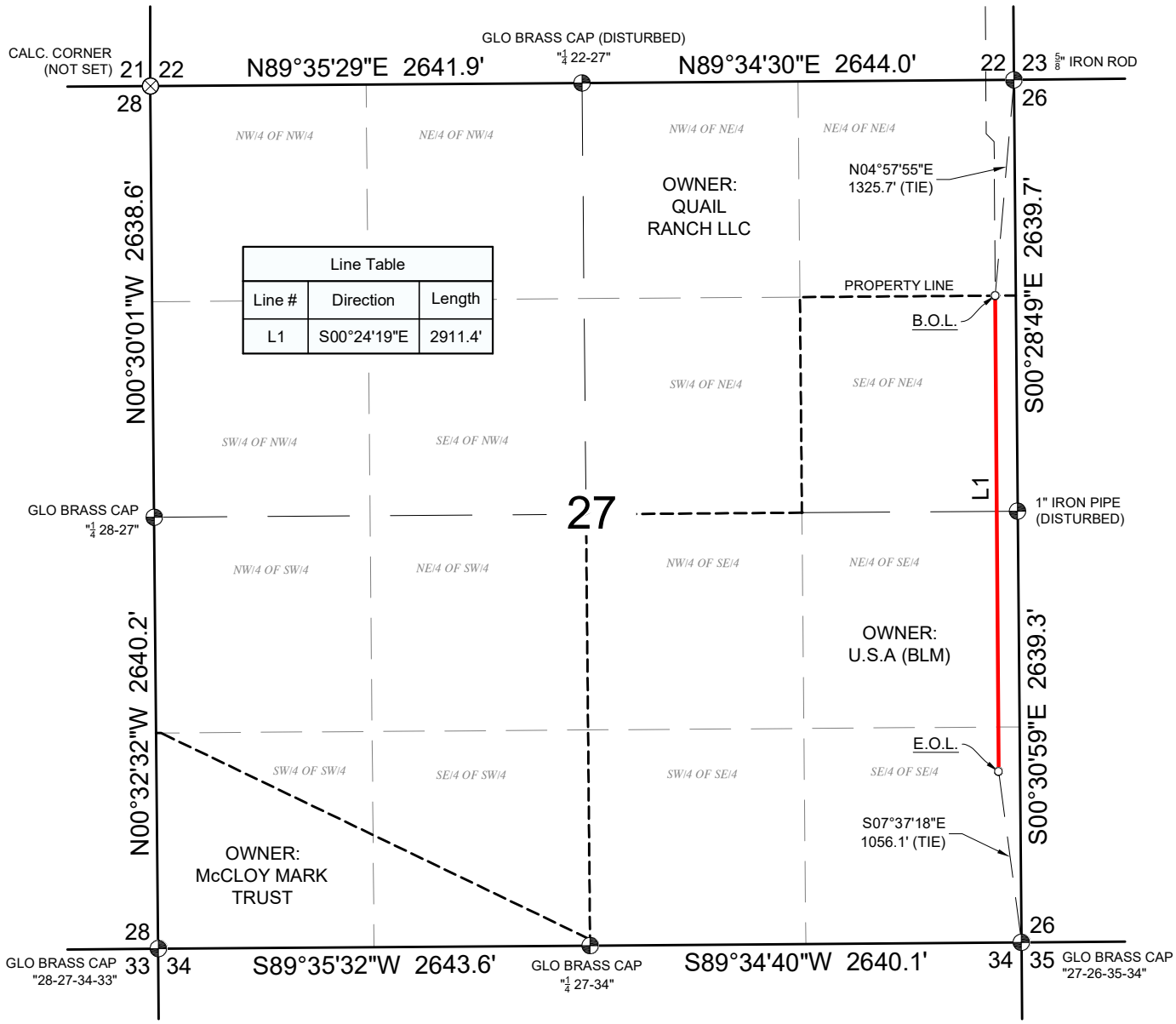
eog resources

GRACKLE 23 EAST FC CTB 700 PROPOSED GAS LINE
CROSSING SEC. 23, T-24-S, R-34-E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

ASCENT GEOMATICS SOLUTIONS
COLLECT-ANALYZE-DELIVER
GEOSPATIAL DATA
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680

PLAT: P:\EOG_B20\0054\PROD\ROW EXHIBITS\UTILITIES\GRACKLE_23_EAST_FED_COM_UTILITIES_CTB_700_SEC_23 JWILSON LAYOUT TAB: SHEET 1

SECTION 27, TOWNSHIP 24 SOUTH, RANGE 34 EAST,
LEA COUNTY, NEW MEXICO

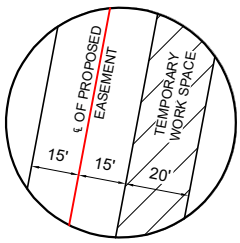


Line Table		
Line #	Direction	Length
L1	S00°24'19"E	2911.4'

GRACKLE 23 EAST FC CTB 700 GAS LINE

CENTERLINE DESCRIPTION

A STRIP OF LAND 30 FEET IN WIDTH AND 2911.4 FEET, 176.4 RODS OR 0.55 MILES IN LENGTH, SITUATED IN SECTION 27, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AND BEING 15 FEET LEFT AND 15 FEET RIGHT OF THE SURVEY OF CENTERLINE AS SHOWN HEREON.



TYPICAL N.T.S
PERMANENT EASEMENT, TEMPORARY WORK SPACE CONFIGURATION

- GAS LINE
- POINT FOR BEGIN/END OR ANGLE POINT
- FOUND MONUMENT AS SHOWN
- CALCULATED CORNER

0 500 1000'
SCALE: 1"= 1000'

N

NOTES:
- BEARINGS, COORDINATES, AND DISTANCES SHOWN HEREON ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83- 2011 (EPOCH 2010) FRAMEWORK, AS DERIVED BY OPUS SOLUTION.
- LAND OWNERSHIP INFORMATION REFLECTED HEREON WAS PROVIDED BY CLIENT AND/OR OBTAINED FROM PUBLIC DOMAIN DATA, NO INDEPENDENT OWNERSHIP SEARCH WAS PERFORMED BY ASCENT

06/28/2021
RALPH B. CHUSTZ, JR. NEW MEXICO 26264 PROFESSIONAL SURVEYOR

I, RALPH B. CHUSTZ, JR., NEW MEXICO PROFESSIONAL SURVEYOR NO. 26264, DO HEREBY CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT PLAT OF A PROPOSED EASEMENT.

RALPH B. CHUSTZ, JR., N.M. P.L.S. **No.26264**

SURVEY DATE: 06/10/2021
JOB NO.: B20.EOG.0054
DRAFT: JW
SHEET: 1 OF 1

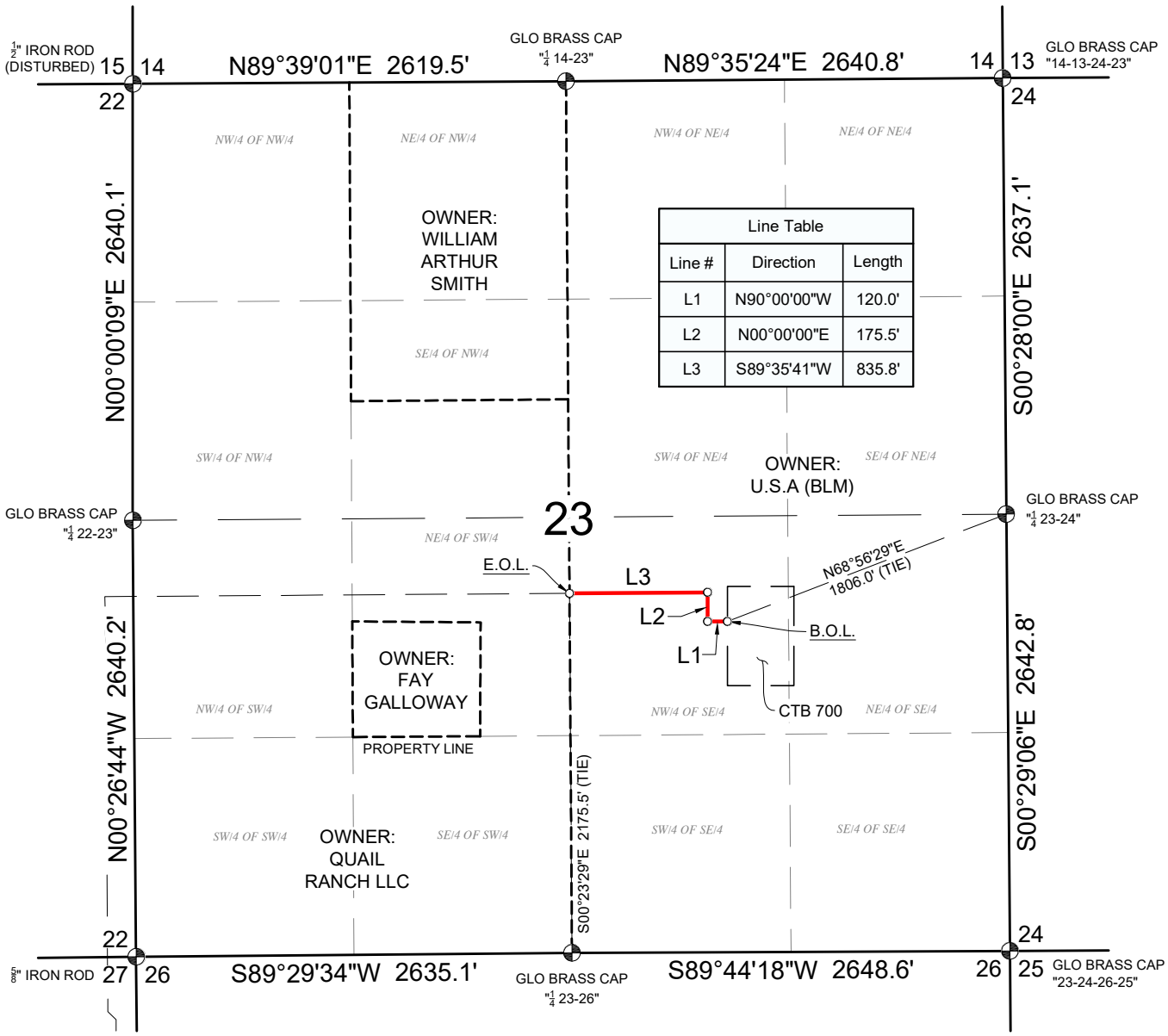
eog resources

GRACKLE 23 EAST FC CTB 700 PROPOSED GAS LINE
CROSSING SEC. 27, T-24-S, R-34-E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

ASCENT GEOMATICS SOLUTIONS
COLLECT-ANALYZE-DELIVER
GEOSPATIAL DATA
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680

PLAT: P:\EOG_B20\0054\PROD\ROW EXHIBITS\UTILITIES\GRACKLE_23_EAST_FED_COM_UTILITIES_CTB_700_SEC_27 JWILSON LAYOUT TAB: SHEET 1

SECTION 23, TOWNSHIP 24 SOUTH, RANGE 34 EAST,
LEA COUNTY, NEW MEXICO

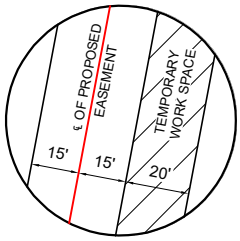


Line Table		
Line #	Direction	Length
L1	N90°00'00"W	120.0'
L2	N00°00'00"E	175.5'
L3	S89°35'41"W	835.8'

GRACKLE 23 EAST FC CTB 700 GAS LINE

CENTERLINE DESCRIPTION

A STRIP OF LAND 30 FEET IN WIDTH AND 1131.3 FEET, 68.6 RODS OR 0.21 MILES IN LENGTH, SITUATED IN SECTION 23, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AND BEING 15 FEET LEFT AND 15 FEET RIGHT OF THE SURVEY OF CENTERLINE AS SHOWN HEREON.



TYPICAL N.T.S
PERMANENT EASEMENT, TEMPORARY WORK SPACE CONFIGURATION

- GAS LINE
- POINT FOR BEGIN/END OR ANGLE POINT
- FOUND MONUMENT AS SHOWN
- CALCULATED CORNER

NOTES:
- BEARINGS, COORDINATES, AND DISTANCES SHOWN HEREON ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83- 2011 (EPOCH 2010) FRAMEWORK, AS DERIVED BY OPUS SOLUTION.
- LAND OWNERSHIP INFORMATION REFLECTED HEREON WAS PROVIDED BY CLIENT AND/OR OBTAINED FROM PUBLIC DOMAIN DATA, NO INDEPENDENT OWNERSHIP SEARCH WAS PERFORMED BY ASCENT

0 500 1000'
SCALE: 1"= 1000'

06/28/2021
RALPH B. CHUSTZ, JR. NEW MEXICO 26264 PROFESSIONAL SURVEYOR

I, RALPH B. CHUSTZ, JR., NEW MEXICO PROFESSIONAL SURVEYOR NO. 26264, DO HEREBY CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT PLAT OF A PROPOSED EASEMENT.

RALPH B. CHUSTZ, JR., N.M. P.L.S. **No.26264**

SURVEY DATE: 06/10/2021
JOB NO.: B20.EOG.0054
DRAFT: JW
SHEET: 1 OF 1

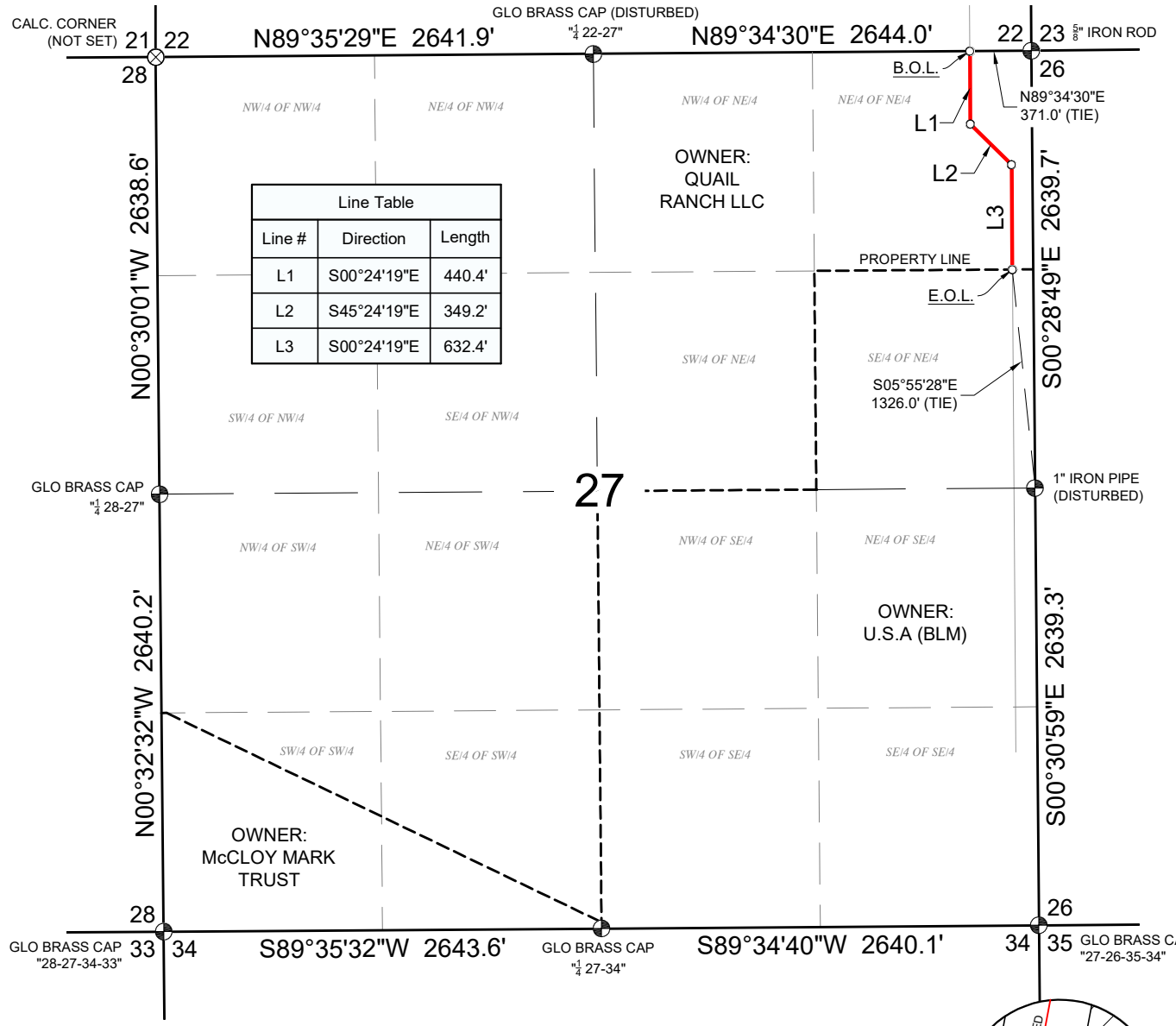
eog resources

GRACKLE 23 EAST FC CTB 700 PROPOSED GAS LINE
CROSSING SEC. 23, T-24-S, R-34-E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

ASCENT GEOMATICS SOLUTIONS
COLLECT-ANALYZE-DELIVER
GEOSPATIAL DATA
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680

PLAT: P:\EOG_B200054\PROD\ROW EXHIBITS\UTILITIES\GRACKLE_23_EAST_FED_COM_UTILITIES_CTB_700_SEC_23 JWILSON LAYOUT TAB: SHEET 1

SECTION 27, TOWNSHIP 24 SOUTH, RANGE 34 EAST,
LEA COUNTY, NEW MEXICO



Line Table		
Line #	Direction	Length
L1	S00°24'19"E	440.4'
L2	S45°24'19"E	349.2'
L3	S00°24'19"E	632.4'

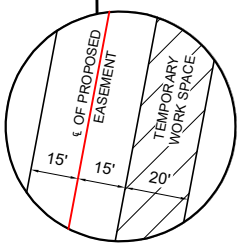
GRACKLE 23 EAST FC CTB 700 GAS LINE
CENTERLINE DESCRIPTION

A PROPOSED GAS LINE SITUATED IN THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 27, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AS CONVEYED TO QUAIL RANCH LLC, AND BEING 15 FEET LEFT AND 15 FEET RIGHT OF THE SURVEY OF CENTERLINE AS SHOWN HEREON AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS;

BEGINNING AT A POINT, FROM WHICH A 5/8" IRON ROD FOUND AND ACCEPTED AS THE NORTHEAST CORNER OF SAID SECTION 27 BEARS N89°34'30"E, 371.0 FEET, FOR THE BEGINNING OF THE HEREIN DESCRIBED CENTERLINE;

THENCE THE FOLLOWING TWO (2) COURSES, S00°24'19"E, 440.4 FEET, S45°24'19"E, 349.2 FEET, TO AN ANGLE POINT HEREOF;

THENCE S00°24'19"E, 632.4 FEET TO A POINT, BEING THE END OF THE DESCRIBED CENTERLINE, FROM WHICH A 1" IRON PIPE FOUND AND ACCEPTED AS THE EAST QUARTER CORNER OF SAID SECTION 27 BEARS S05°55'28"E, 1326.0 FEET, IN ALL BEING 1422.0 FEET OR 86.2 RODS IN LENGTH.



TYPICAL N.T.S
PERMANENT EASEMENT, TEMPORARY WORK SPACE CONFIGURATION

NOTES:
- BEARINGS, COORDINATES, AND DISTANCES SHOWN HEREON ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83- 2011 (EPOCH 2010) FRAMEWORK, AS DERIVED BY OPUS SOLUTION.
- LAND OWNERSHIP INFORMATION REFLECTED HEREON WAS PROVIDED BY CLIENT AND/OR OBTAINED FROM PUBLIC DOMAIN DATA, NO INDEPENDENT OWNERSHIP SEARCH WAS PERFORMED BY ASCENT

0 500 1000'
SCALE: 1"= 1000'

- GAS LINE
- POINT FOR BEGIN/END OR ANGLE POINT
- FOUND MONUMENT AS SHOWN
- CALCULATED CORNER

08/16/2021
RALPH B. CHUSTZ, JR. NEW MEXICO 26264 PROFESSIONAL SURVEYOR

I, RALPH B. CHUSTZ, JR., NEW MEXICO PROFESSIONAL SURVEYOR NO. 26264, DO HEREBY CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT PLAT OF A PROPOSED EASEMENT.

RALPH B. CHUSTZ, JR., N.M. P.L.S. **No.26264**

SURVEY DATE: 06/10/2021
JOB NO.: B20.EOG.0054
DRAFT: JW
SHEET: 1 OF 1

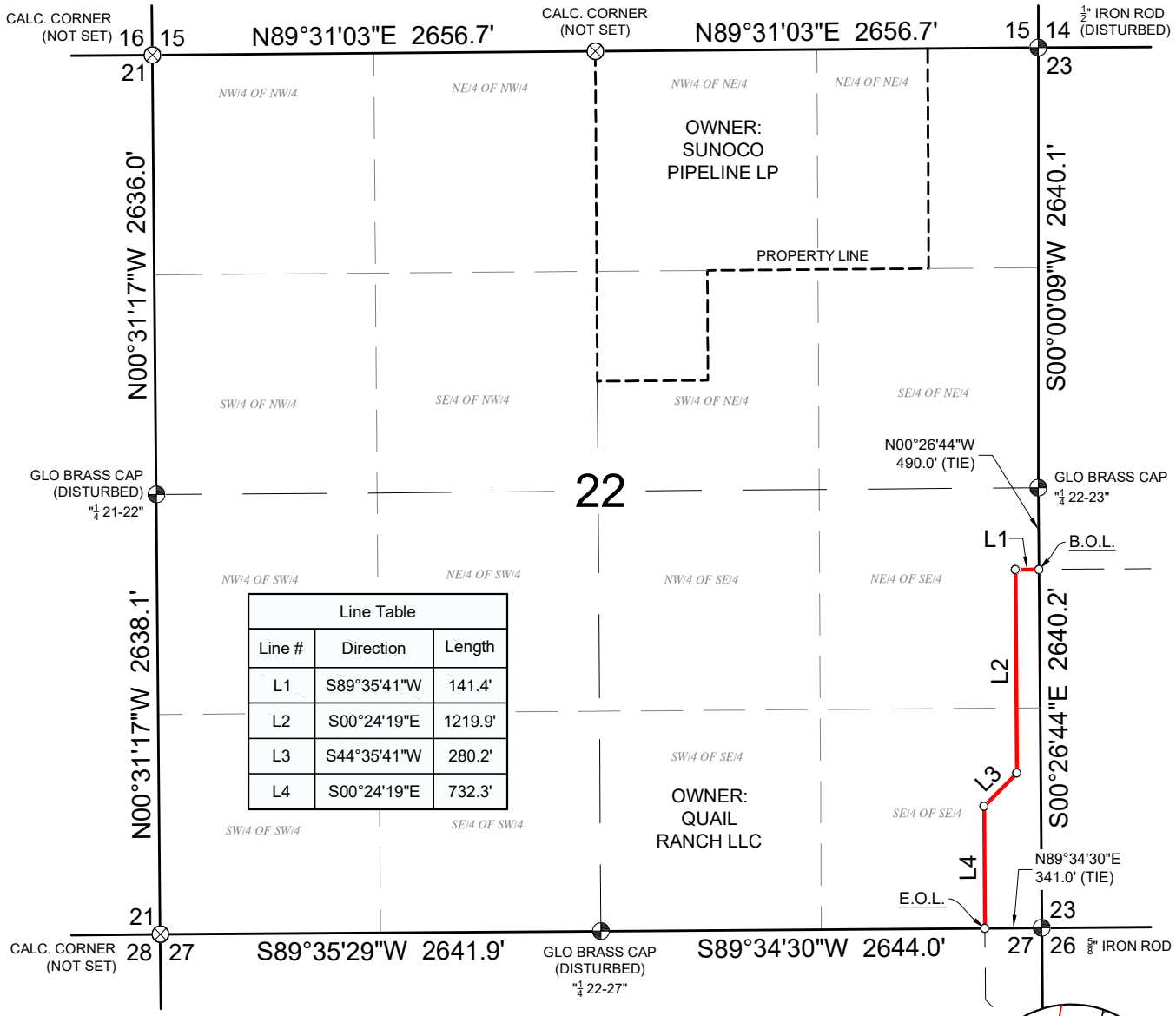
eog resources

GRACKLE 23 EAST FC CTB 700 PROPOSED GAS LINE
CROSSING SEC. 27, T-24-S, R-34-E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

ASCENT GEOMATICS SOLUTIONS
COLLECT-ANALYZE-DELIVER
GEOSPATIAL DATA
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680

PLAT: P:\EOG_B200054\PROD\ROW EXHIBITS\UTILITIES\GRACKLE_23_EAST_FED_COM_UTILITIES_CTB_700_SEC_27 JWILSON LAYOUT TAB: SHEET 1

SECTION 22, TOWNSHIP 24 SOUTH, RANGE 34 EAST,
LEA COUNTY, NEW MEXICO



Line Table		
Line #	Direction	Length
L1	S89°35'41"W	141.4'
L2	S00°24'19"E	1219.9'
L3	S44°35'41"W	280.2'
L4	S00°24'19"E	732.3'

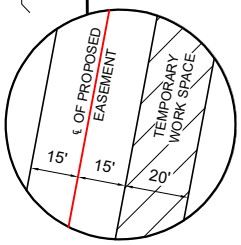
GRACKLE 23 EAST FC CTB 700 GAS LIFT LINE
CENTERLINE DESCRIPTION

A PROPOSED GAS LIFT LINE SITUATED IN THE EAST HALF OF THE SOUTHEAST QUARTER OF SECTION 22, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AS CONVEYED TO QUAIL RANCH LLC, AND BEING 15 FEET LEFT AND 15 FEET RIGHT OF THE SURVEY OF CENTERLINE AS SHOWN HEREON AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS;

BEGINNING AT A POINT, FROM WHICH A GLO BRASS CAP FOUND AND ACCEPTED AS THE EAST QUARTER CORNER OF SAID SECTION 22 BEARS N00°26'44"W, 490.0 FEET, FOR THE BEGINNING OF THE HEREIN DESCRIBED CENTERLINE;

THENCE THE FOLLOWING THREE (3) COURSE, S89°35'41"W, 141.4 FEET, S00°24'19"E, 1219.9 FEET, S44°35'41"W, 280.2 FEET,TO AN ANGLE POINT HEREOF;

THENCE S00°24'19"E, 732.3 FEET TO A POINT, BEING THE END OF THE DESCRIBED CENTERLINE, FROM WHICH A 5/8" IRON ROD FOUND AND ACCEPTED AS THE SOUTHEAST CORNER OF SAID SECTION 22 BEARS N89°34'30"E, 341.0 FEET, IN ALL BEING 2373.8 FEET OR 143.9 RODS IN LENGTH.



TYPICAL N.T.S
PERMANENT EASEMENT, TEMPORARY WORK SPACE CONFIGURATION

NOTES:
- BEARINGS, COORDINATES, AND DISTANCES SHOWN HEREON ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83- 2011 (EPOCH 2010) FRAMEWORK, AS DERIVED BY OPUS SOLUTION.
- LAND OWNERSHIP INFORMATION REFLECTED HEREON WAS PROVIDED BY CLIENT AND/OR OBTAINED FROM PUBLIC DOMAIN DATA, NO INDEPENDENT OWNERSHIP SEARCH WAS PERFORMED BY ASCENT

0 500 1000'
SCALE: 1"= 1000'

GAS LIFT LINE
POINT FOR BEGIN/END OR ANGLE POINT
FOUND MONUMENT AS SHOWN
CALCULATED CORNER

8/17/2021
RALPH B. CHUSTZ, JR. NEW MEXICO 26264 PROFESSIONAL SURVEYOR

I, RALPH B. CHUSTZ, JR., NEW MEXICO PROFESSIONAL SURVEYOR NO. 26264, DO HEREBY CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT PLAT OF A PROPOSED EASEMENT.

RALPH B. CHUSTZ, JR., N.M. P.L.S. **No.26264**

SURVEY DATE: 06/10/2021
JOB NO.: B20.EOG.0054
DRAFT: JW
SHEET: 1 OF 1

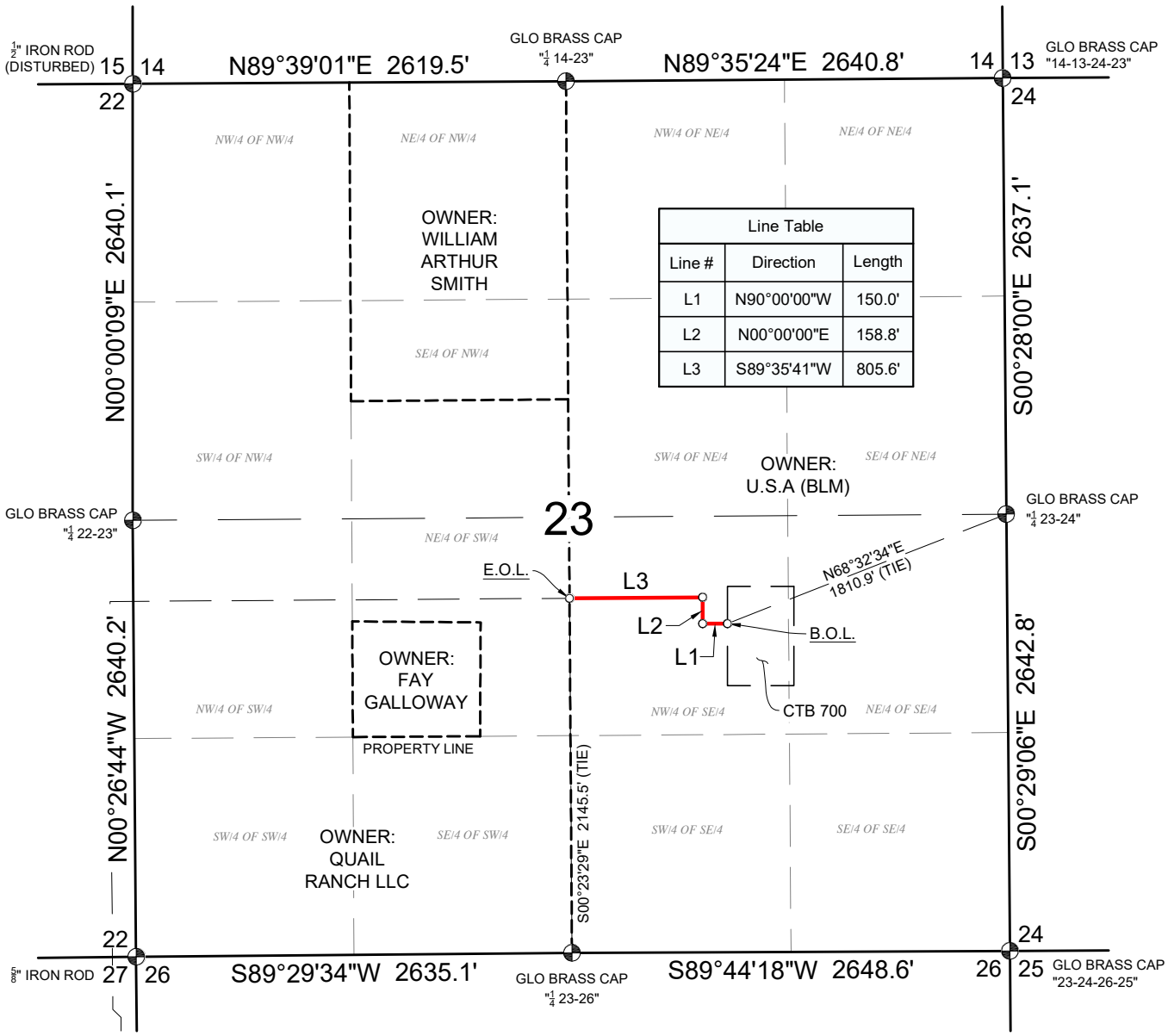
eog resources

GRACKLE 23 EAST FC CTB 700 PROPOSED GAS LIFT LINE
CROSSING SEC. 22, T-24-S, R-34-E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

ASCENT GEOMATICS SOLUTIONS
COLLECT-ANALYZE-DELIVER
GEOSPATIAL DATA
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680

PLAT: P:\EOG_B200054\PROD\ROW EXHIBITS\UTILITIES\GRACKLE_23_EAST_FED_COM_UTILITIES_CTB_700_SEC_22 JWILSON LAYOUT TAB: SHEET 1

SECTION 23, TOWNSHIP 24 SOUTH, RANGE 34 EAST,
LEA COUNTY, NEW MEXICO

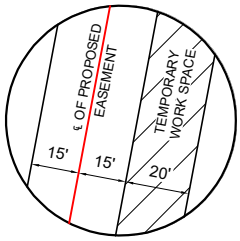


Line Table		
Line #	Direction	Length
L1	N90°00'00"W	150.0'
L2	N00°00'00"E	158.8'
L3	S89°35'41"W	805.6'

GRACKLE 23 EAST FC CTB 700 GAS LIFT LINE

CENTERLINE DESCRIPTION

A STRIP OF LAND 30 FEET IN WIDTH AND 1114.4 FEET, 67.5 RODS OR 0.21 MILES IN LENGTH, SITUATED IN SECTION 23, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AND BEING 15 FEET LEFT AND 15 FEET RIGHT OF THE SURVEY OF CENTERLINE AS SHOWN HEREON.



TYPICAL N.T.S
PERMANENT EASEMENT, TEMPORARY WORK SPACE CONFIGURATION

- GAS LIFT LINE
- POINT FOR BEGIN/END OR ANGLE POINT
- FOUND MONUMENT AS SHOWN
- CALCULATED CORNER

NOTES:
- BEARINGS, COORDINATES, AND DISTANCES SHOWN HEREON ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83- 2011 (EPOCH 2010) FRAMEWORK, AS DERIVED BY OPUS SOLUTION.
- LAND OWNERSHIP INFORMATION REFLECTED HEREON WAS PROVIDED BY CLIENT AND/OR OBTAINED FROM PUBLIC DOMAIN DATA, NO INDEPENDENT OWNERSHIP SEARCH WAS PERFORMED BY ASCENT

0 500 1000'
SCALE: 1"= 1000'

I, RALPH B. CHUSTZ, JR., NEW MEXICO PROFESSIONAL SURVEYOR NO. 26264, DO HEREBY CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT PLAT OF A PROPOSED EASEMENT.

RALPH B. CHUSTZ, JR., N.M. P.L.S. **No.26264**

SURVEY DATE: 06/10/2021
JOB NO.: B20.EOG.0054
DRAFT: JW
SHEET: 1 OF 1

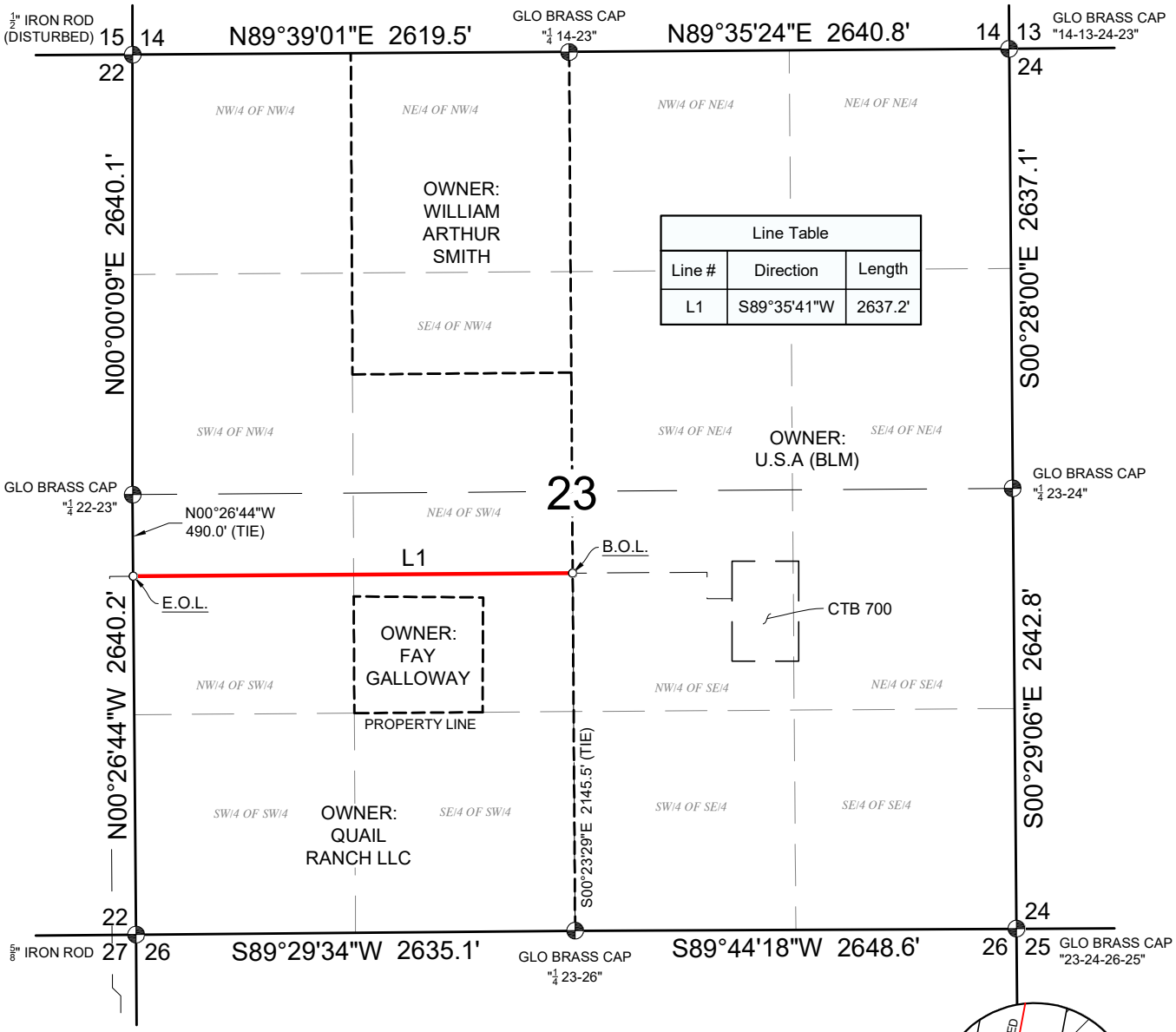
eog resources

GRACKLE 23 EAST FC CTB 700 PROPOSED GAS LIFT LINE CROSSING SEC. 23, T-24-S, R-34-E, N.M.P.M., LEA COUNTY, NEW MEXICO

ASCENT GEOMATICS SOLUTIONS
COLLECT-ANALYZE-DELIVER
GEOSPATIAL DATA
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680

PLAT: P:\EOG_B20\0054\PROD\ROW EXHIBITS\UTILITIES\GRACKLE_23_EAST_FED_COM_UTILITIES_CTB_700_SEC_23 JWILSON LAYOUT TAB: SHEET 1

SECTION 23, TOWNSHIP 24 SOUTH, RANGE 34 EAST,
LEA COUNTY, NEW MEXICO



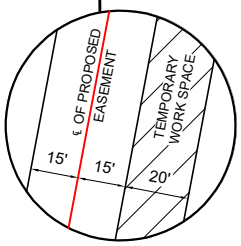
Line Table		
Line #	Direction	Length
L1	S89°35'41"W	2637.2'

GRACKLE 23 EAST FC CTB 700 GAS LIFT LINE
CENTERLINE DESCRIPTION

A PROPOSED GAS LIFT LINE SITUATED IN THE NORTH HALF OF THE SOUTHWEST QUARTER OF SECTION 23, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AS CONVEYED TO QUAIL RANCH LLC, AND BEING 15 FEET LEFT AND 15 FEET RIGHT OF THE SURVEY OF CENTERLINE AS SHOWN HEREON AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS;

BEGINNING AT A POINT, FROM WHICH A GLO BRASS CAP FOUND AND ACCEPTED AS THE SOUTH QUARTER CORNER OF SAID SECTION 23 BEARS S00°23'29"E, 2145.5 FEET, FOR THE BEGINNING OF THE HEREIN DESCRIBED CENTERLINE;

THENCE THE FOLLOWING ONE (1) COURSE, S89°35'41"W, 2637.2 FEET TO A POINT, BEING THE END OF THE DESCRIBED CENTERLINE, FROM WHICH A GLO BRASS CAP FOUND AND ACCEPTED AS THE WEST QUARTER CORNER OF SAID SECTION 23 BEARS N00°26'44"W, 490.0 FEET, IN ALL BEING 2637.2 FEET OR 159.8 RODS IN LENGTH.



TYPICAL N.T.S
PERMANENT EASEMENT, TEMPORARY WORK SPACE CONFIGURATION

NOTES:
- BEARINGS, COORDINATES, AND DISTANCES SHOWN HEREON ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83- 2011 (EPOCH 2010) FRAMEWORK, AS DERIVED BY OPUS SOLUTION.
- LAND OWNERSHIP INFORMATION REFLECTED HEREON WAS PROVIDED BY CLIENT AND/OR OBTAINED FROM PUBLIC DOMAIN DATA, NO INDEPENDENT OWNERSHIP SEARCH WAS PERFORMED BY ASCENT

0 500 1000'
SCALE: 1"= 1000'

GAS LIFT LINE
POINT FOR BEGIN/END OR ANGLE POINT
FOUND MONUMENT AS SHOWN
CALCULATED CORNER

I, RALPH B. CHUSTZ, JR., NEW MEXICO PROFESSIONAL SURVEYOR NO. 26264, DO HEREBY CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT PLAT OF A PROPOSED EASEMENT.

RALPH B. CHUSTZ, JR., N.M. P.L.S. **No.26264**

SURVEY DATE: 06/10/2021
JOB NO.: B20.EOG.0054
DRAFT: JW
SHEET: 1 OF 1

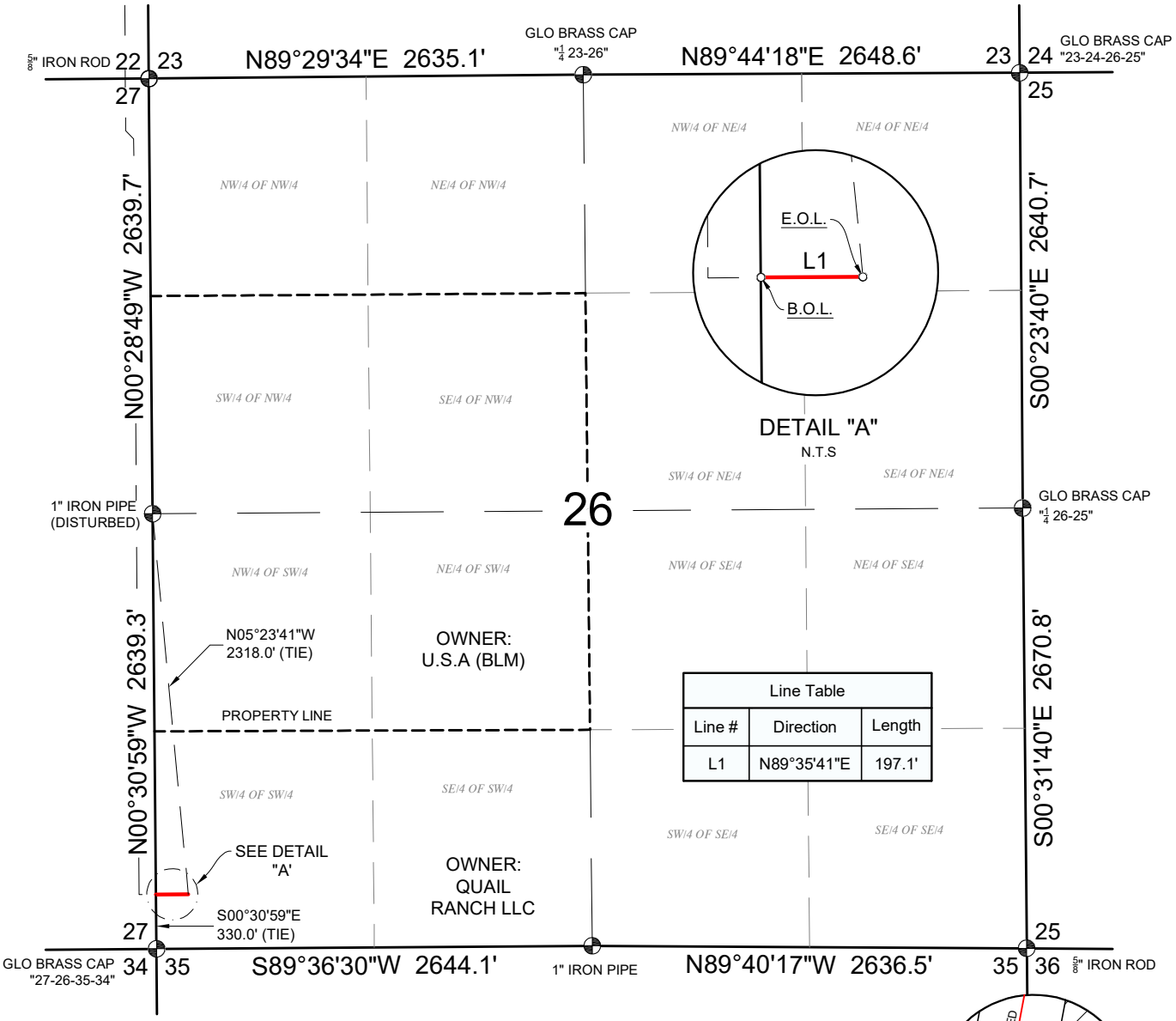
eog resources

GRACKLE 23 EAST FC CTB 700 PROPOSED
GAS LIFT LINE CROSSING SEC. 23, T-24-S, R-34-E,
N.M.P.M., LEA COUNTY, NEW MEXICO

ASCENT GEOMATICS SOLUTIONS
COLLECT-ANALYZE-DELIVER
GEOSPATIAL DATA
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680

PLAT: P:\EOG_B20\0054\PROD\ROW EXHIBITS\UTILITIES\GRACKLE_23_EAST_FED_COM_UTILITIES_CTB_700_SEC_23 JWILSON LAYOUT TAB: SHEET 1

SECTION 26, TOWNSHIP 24 SOUTH, RANGE 34 EAST,
LEA COUNTY, NEW MEXICO



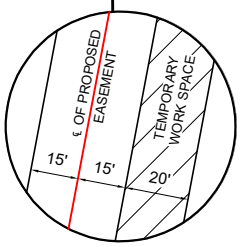
Line Table		
Line #	Direction	Length
L1	N89°35'41"E	197.1'

GRACKLE 23 EAST FC CTB 700 GAS LIFT LINE
CENTERLINE DESCRIPTION

A PROPOSED GAS LIFT LINE SITUATED IN THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 26, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AS CONVEYED TO QUAIL RANCH LLC, AND BEING 15 FEET LEFT AND 15 FEET RIGHT OF THE SURVEY OF CENTERLINE AS SHOWN HEREON AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS;

BEGINNING AT A POINT, FROM WHICH A GLO BRASS CAP FOUND AND ACCEPTED AS THE SOUTHWEST CORNER OF SAID SECTION 26 BEARS S00°30'59"E, 330.0 FEET, FOR THE BEGINNING OF THE HEREIN DESCRIBED CENTERLINE;

THENCE THE FOLLOWING ONE (1) COURSE, N89°35'41"E, 197.1 FEET TO A POINT, BEING THE END OF THE DESCRIBED CENTERLINE, FROM WHICH A 1" IRON PIPE FOUND AND ACCEPTED AS THE WEST QUARTER CORNER OF SAID SECTION 26 BEARS N05°23'41"W, 2318.0 FEET, IN ALL BEING 197.1 FEET OR 11.9 RODS IN LENGTH.



TYPICAL N.T.S
PERMANENT EASEMENT,
TEMPORARY WORK SPACE
CONFIGURATION

NOTES:
- BEARINGS, COORDINATES, AND DISTANCES SHOWN HEREON ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83- 2011 (EPOCH 2010) FRAMEWORK, AS DERIVED BY OPUS SOLUTION.
- LAND OWNERSHIP INFORMATION REFLECTED HEREON WAS PROVIDED BY CLIENT AND/OR OBTAINED FROM PUBLIC DOMAIN DATA, NO INDEPENDENT OWNERSHIP SEARCH WAS PERFORMED BY ASCENT

0 500 1000'
SCALE: 1"= 1000'

GAS LIFT LINE
POINT FOR BEGIN/END OR ANGLE POINT
FOUND MONUMENT AS SHOWN
CALCULATED CORNER

I, RALPH B. CHUSTZ, JR., NEW MEXICO PROFESSIONAL SURVEYOR NO. 26264, DO HEREBY CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT PLAT OF A PROPOSED EASEMENT.

RALPH B. CHUSTZ, JR., N.M. P.L.S. **No.26264**

SURVEY DATE: 06/10/2021
JOB NO.: B20.EOG.0054
DRAFT: JW
SHEET: 1 OF 1

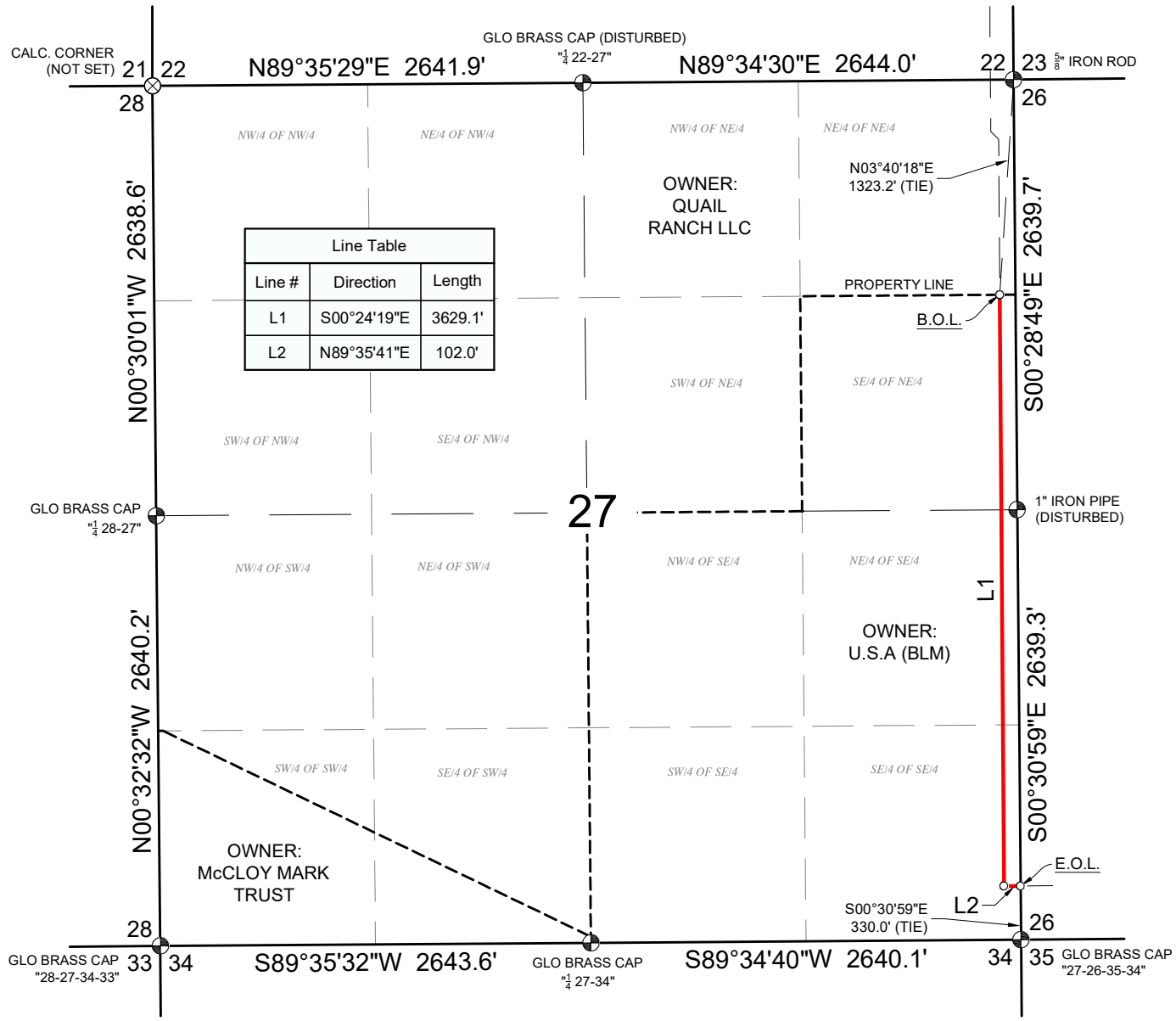
eog resources

GRACKLE 23 EAST FC CTB 700 PROPOSED GAS LIFT LINE
CROSSING SEC. 26, T-24-S, R-34-E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

ASCENT GEOMATICS SOLUTIONS
COLLECT-ANALYZE-DELIVER
GEOSPATIAL DATA
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680

PLAT: P:\EOG_B200054\PROD\ROW EXHIBITS\UTILITIES\GRACKLE_23_EAST_FED_COM_UTILITIES_CTB_700_SEC_26 JWILSON LAYOUT TAB: SHEET 1

SECTION 27, TOWNSHIP 24 SOUTH, RANGE 34 EAST,
LEA COUNTY, NEW MEXICO

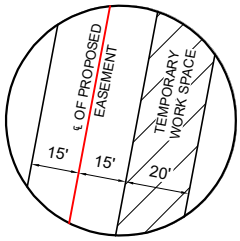


Line Table		
Line #	Direction	Length
L1	S00°24'19"E	3629.1'
L2	N89°35'41"E	102.0'

GRACKLE 23 EAST FC CTB 700 GAS LIFT LINE

CENTERLINE DESCRIPTION

A STRIP OF LAND 30 FEET IN WIDTH AND 3731.1 FEET, 226.1 RODS OR 0.71 MILES IN LENGTH, SITUATED IN SECTION 27, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AND BEING 15 FEET LEFT AND 15 FEET RIGHT OF THE SURVEY OF CENTERLINE AS SHOWN HEREON.



TYPICAL N.T.S
PERMANENT EASEMENT, TEMPORARY WORK SPACE CONFIGURATION

- GAS LIFT LINE
- POINT FOR BEGIN/END OR ANGLE POINT
- FOUND MONUMENT AS SHOWN
- CALCULATED CORNER

0 500 1000'
SCALE: 1"= 1000'

N

NOTES:
- BEARINGS, COORDINATES, AND DISTANCES SHOWN HEREON ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83- 2011 (EPOCH 2010) FRAMEWORK, AS DERIVED BY OPUS SOLUTION.
- LAND OWNERSHIP INFORMATION REFLECTED HEREON WAS PROVIDED BY CLIENT AND/OR OBTAINED FROM PUBLIC DOMAIN DATA, NO INDEPENDENT OWNERSHIP SEARCH WAS PERFORMED BY ASCENT

I, RALPH B. CHUSTZ, JR., NEW MEXICO PROFESSIONAL SURVEYOR NO. 26264, DO HEREBY CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT PLAT OF A PROPOSED EASEMENT.

RALPH B. CHUSTZ, JR., N.M. P.L.S. **No.26264**

SURVEY DATE: 06/10/2021
JOB NO.: B20.EOG.0054
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SHEET: 1 OF 1

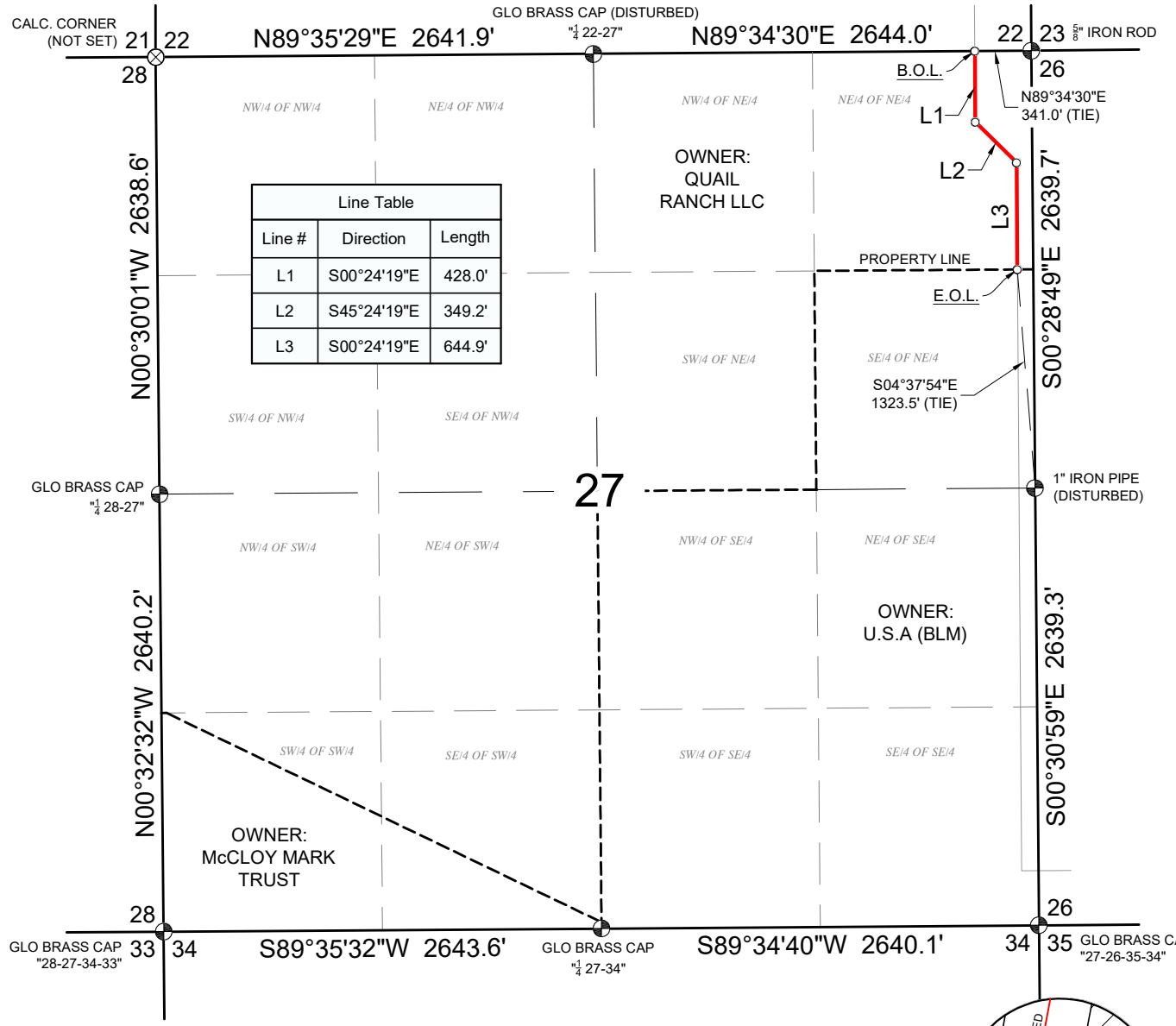
eog resources

GRACKLE 23 EAST FC CTB 700 PROPOSED GAS LIFT LINE CROSSING SEC. 27, T-24-S, R-34-E, N.M.P.M., LEA COUNTY, NEW MEXICO

ASCENT GEOMATICS SOLUTIONS
COLLECT-ANALYZE-DELIVER
GEOSPATIAL DATA
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680

PLAT: P:\EOG_B20\0054\PROD\ROW EXHIBITS\UTILITIES\GRACKLE_23_EAST_FED_COM_UTILITIES_CTB_700_SEC_27 JWILSON LAYOUT TAB: SHEET 1

SECTION 27, TOWNSHIP 24 SOUTH, RANGE 34 EAST,
LEA COUNTY, NEW MEXICO



Line Table		
Line #	Direction	Length
L1	S00°24'19"E	428.0'
L2	S45°24'19"E	349.2'
L3	S00°24'19"E	644.9'

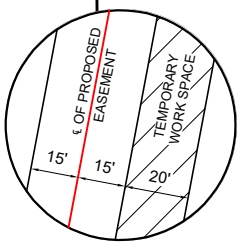
GRACKLE 23 EAST FC CTB 700 GAS LIFT LINE
CENTERLINE DESCRIPTION

A PROPOSED GAS LIFT LINE SITUATED IN THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 27, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AS CONVEYED TO QUAIL RANCH LLC, AND BEING 15 FEET LEFT AND 15 FEET RIGHT OF THE SURVEY OF CENTERLINE AS SHOWN HEREON AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS;

BEGINNING AT A POINT, FROM WHICH A 5/8" IRON ROD FOUND AND ACCEPTED AS THE NORTHEAST CORNER OF SAID SECTION 27 BEARS N89°34'30"E, 341.0 FEET, FOR THE BEGINNING OF THE HEREIN DESCRIBED CENTERLINE;

THENCE THE FOLLOWING TWO (2) COURSES, S00°24'19"E, 428.0 FEET, S45°24'19"E, 349.2 FEET, TO AN ANGLE POINT HEREOF;

THENCE S00°24'19"E, 644.9 FEET TO A POINT, BEING THE END OF THE DESCRIBED CENTERLINE, FROM WHICH A 1" IRON PIPE FOUND AND ACCEPTED AS THE EAST QUARTER CORNER OF SAID SECTION 27 BEARS S04°37'54"E, 1323.5 FEET, IN ALL BEING 1422.1 FEET OR 86.2 RODS IN LENGTH.



TYPICAL N.T.S
PERMANENT EASEMENT, TEMPORARY WORK SPACE CONFIGURATION

NOTES:
- BEARINGS, COORDINATES, AND DISTANCES SHOWN HEREON ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83- 2011 (EPOCH 2010) FRAMEWORK, AS DERIVED BY OPUS SOLUTION.
- LAND OWNERSHIP INFORMATION REFLECTED HEREON WAS PROVIDED BY CLIENT AND/OR OBTAINED FROM PUBLIC DOMAIN DATA, NO INDEPENDENT OWNERSHIP SEARCH WAS PERFORMED BY ASCENT

0 500 1000'
SCALE: 1"= 1000'

GAS LIFT LINE
POINT FOR BEGIN/END OR ANGLE POINT
FOUND MONUMENT AS SHOWN
CALCULATED CORNER

08/16/2021
RALPH B. CHUSTZ, JR. NEW MEXICO 26264 PROFESSIONAL SURVEYOR

I, RALPH B. CHUSTZ, JR., NEW MEXICO PROFESSIONAL SURVEYOR NO. 26264, DO HEREBY CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT PLAT OF A PROPOSED EASEMENT.

RALPH B. CHUSTZ, JR., N.M. P.L.S. **No.26264**

SURVEY DATE: 06/10/2021
JOB NO.: B20.EOG.0054
DRAFT: JW
SHEET: 1 OF 1

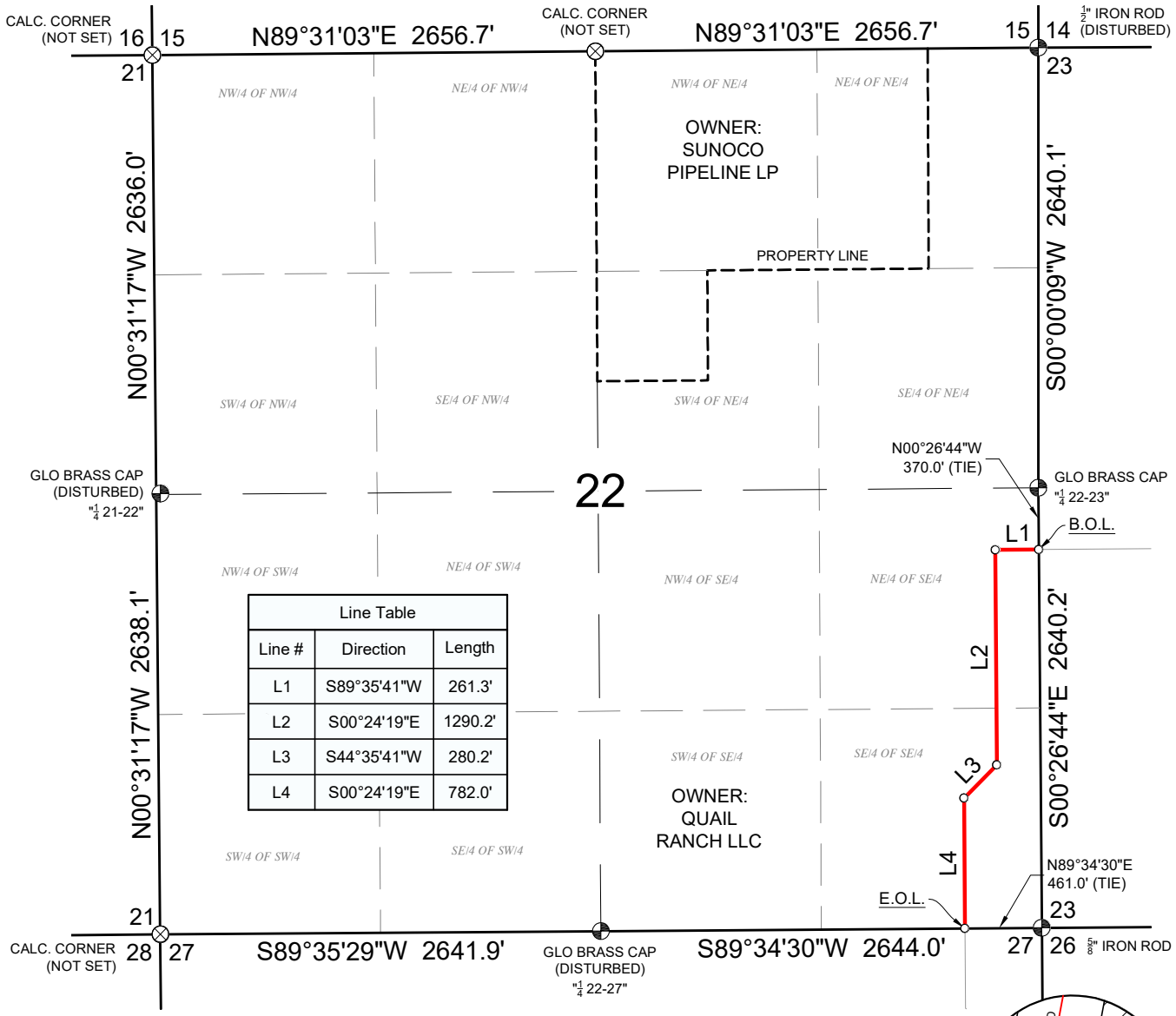
eog resources

GRACKLE 23 EAST FC CTB 700 PROPOSED GAS LIFT LINE CROSSING SEC. 27, T-24-S, R-34-E, N.M.P.M., LEA COUNTY, NEW MEXICO

ASCENT GEOMATICS SOLUTIONS
COLLECT-ANALYZE-DELIVER GEOSPATIAL DATA
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680

PLAT: P:\EOG_B200054\PROD\ROW EXHIBITS\UTILITIES\GRACKLE_23_EAST_FED_COM_UTILITIES_CTB_700_SEC_27 JWILSON LAYOUT TAB: SHEET 1

SECTION 22, TOWNSHIP 24 SOUTH, RANGE 34 EAST,
LEA COUNTY, NEW MEXICO



Line Table		
Line #	Direction	Length
L1	S89°35'41"W	261.3'
L2	S00°24'19"E	1290.2'
L3	S44°35'41"W	280.2'
L4	S00°24'19"E	782.0'

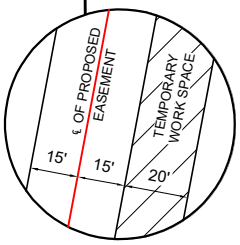
GRACKLE 23 EAST FC CTB 700 OIL LINE
CENTERLINE DESCRIPTION

A PROPOSED OIL LINE SITUATED IN THE EAST HALF OF THE SOUTHEAST QUARTER OF SECTION 22, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AS CONVEYED TO QUAIL RANCH LLC, AND BEING 15 FEET LEFT AND 15 FEET RIGHT OF THE SURVEY OF CENTERLINE AS SHOWN HEREON AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS;

BEGINNING AT A POINT, FROM WHICH A GLO BRASS CAP FOUND AND ACCEPTED AS THE EAST QUARTER CORNER OF SAID SECTION 22 BEARS N00°26'44"W, 370.0 FEET, FOR THE BEGINNING OF THE HEREIN DESCRIBED CENTERLINE;

THENCE THE FOLLOWING THREE (3) COURSE, S89°35'41"W, 261.3 FEET, S00°24'19"E, 1290.2 FEET, S44°35'41"W, 280.2 FEET TO AN ANGLE POINT HEREOF;

THENCE S00°24'19"E, 782.0 FEET TO A POINT, BEING THE END OF THE DESCRIBED CENTERLINE, FROM WHICH A ⅝" IRON ROD FOUND AND ACCEPTED AS THE SOUTHEAST CORNER OF SAID SECTION 22 BEARS N89°34'30"E, 461.0 FEET, IN ALL BEING 2613.7 FEET OR 158.4 RODS IN LENGTH.



TYPICAL N.T.S
PERMANENT EASEMENT, TEMPORARY WORK SPACE CONFIGURATION

NOTES:
- BEARINGS, COORDINATES, AND DISTANCES SHOWN HEREON ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83- 2011 (EPOCH 2010) FRAMEWORK, AS DERIVED BY OPUS SOLUTION.
- LAND OWNERSHIP INFORMATION REFLECTED HEREON WAS PROVIDED BY CLIENT AND/OR OBTAINED FROM PUBLIC DOMAIN DATA, NO INDEPENDENT OWNERSHIP SEARCH WAS PERFORMED BY ASCENT

0 500' 1000'
SCALE: 1"= 1000'

OIL LINE
POINT FOR BEGIN/END OR ANGLE POINT
FOUND MONUMENT AS SHOWN
CALCULATED CORNER

08/16/2021
RALPH B. CHUSTZ, JR. NEW MEXICO 26264 PROFESSIONAL SURVEYOR

I, RALPH B. CHUSTZ, JR., NEW MEXICO PROFESSIONAL SURVEYOR NO. 26264, DO HEREBY CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT PLAT OF A PROPOSED EASEMENT.

RALPH B. CHUSTZ, JR., N.M. P.L.S. **No.26264**

SURVEY DATE: 06/10/2021
JOB NO.: B20.EOG.0054
DRAFT: LJ
SHEET: 1 OF 1

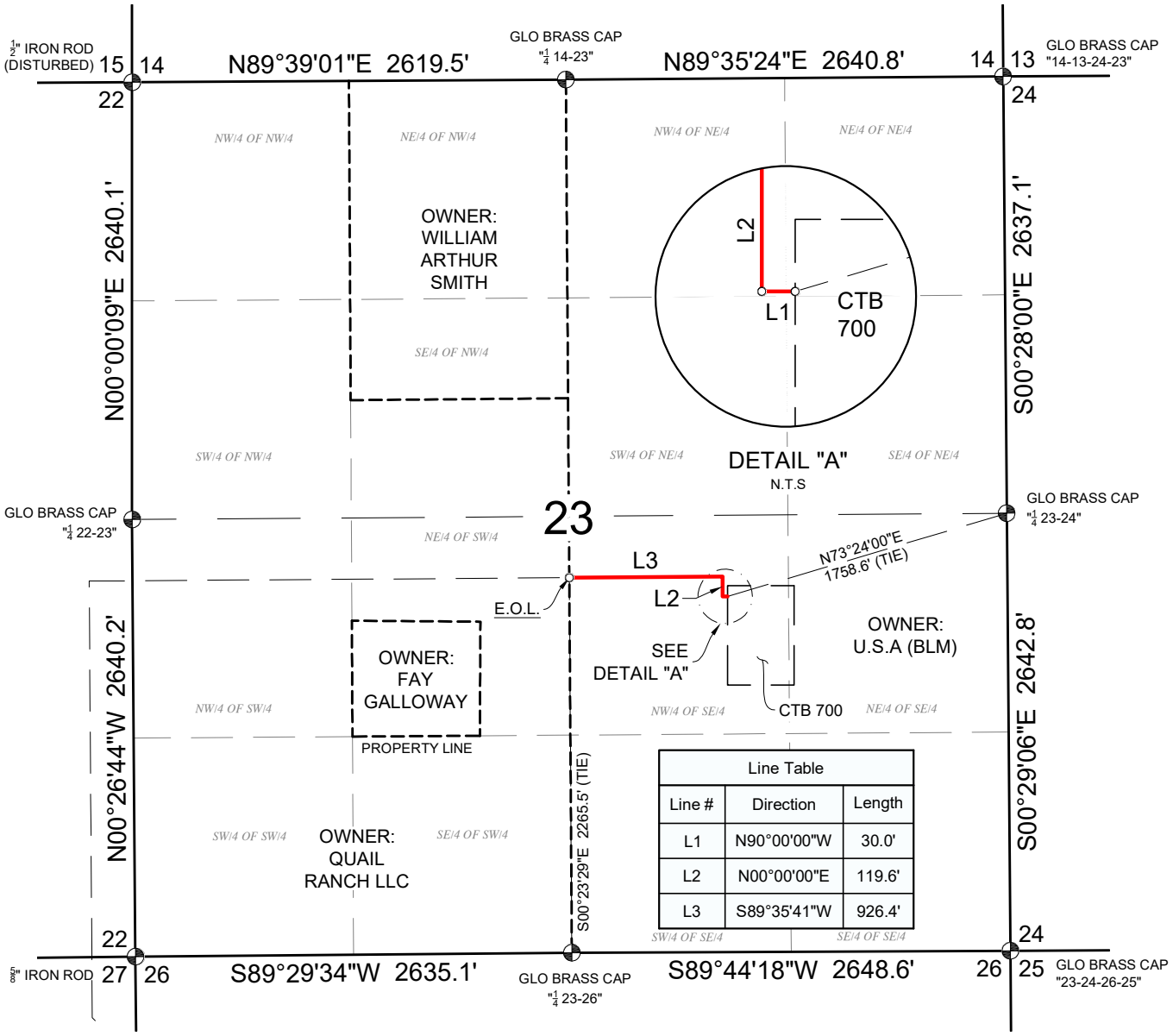
eog resources

GRACKLE 23 EAST FC CTB 700 PROPOSED OIL LINE
CROSSING SEC. 22, T-24-S, R-34-E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

ASCENT GEOMATICS SOLUTIONS
COLLECT-ANALYZE-DELIVER
GEOSPATIAL DATA
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680

PLAT: P:\EOG_B200054\PROD\ROW EXHIBITS\UTILITIES\GRACKLE_23_EAST_FED_COM_OIL_CTB_700_SEC_22 J.WILSON LAYOUT TAB: SHEET 1

SECTION 23, TOWNSHIP 24 SOUTH, RANGE 34 EAST,
LEA COUNTY, NEW MEXICO

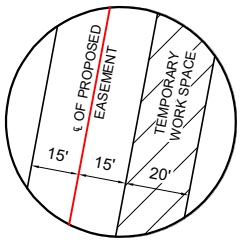


Line Table		
Line #	Direction	Length
L1	N90°00'00"W	30.0'
L2	N00°00'00"E	119.6'
L3	S89°35'41"W	926.4'

GRACKLE 23 EAST FC CTB 700 OIL LINE

CENTERLINE DESCRIPTION

A STRIP OF LAND 30 FEET IN WIDTH AND 1076.0 FEET, 65.2 RODS OR 0.20 MILES IN LENGTH, SITUATED IN SECTION 23, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AND BEING 15 FEET LEFT AND 15 FEET RIGHT OF THE SURVEY OF CENTERLINE AS SHOWN HEREON.



TYPICAL N.T.S
PERMANENT EASEMENT, TEMPORARY WORK SPACE CONFIGURATION

- OIL LINE
- POINT FOR BEGIN/END OR ANGLE POINT
- FOUND MONUMENT AS SHOWN
- CALCULATED CORNER

0 500' 1000'
SCALE: 1"= 1000'

N

NOTES:
- BEARINGS, COORDINATES, AND DISTANCES SHOWN HEREON ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83- 2011 (EPOCH 2010) FRAMEWORK, AS DERIVED BY OPUS SOLUTION.
- LAND OWNERSHIP INFORMATION REFLECTED HEREON WAS PROVIDED BY CLIENT AND/OR OBTAINED FROM PUBLIC DOMAIN DATA, NO INDEPENDENT OWNERSHIP SEARCH WAS PERFORMED BY ASCENT

I, RALPH B. CHUSTZ, JR., NEW MEXICO PROFESSIONAL SURVEYOR NO. 26264, DO HEREBY CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT PLAT OF A PROPOSED EASEMENT.

RALPH B. CHUSTZ, JR., N.M. P.L.S. **No.26264**

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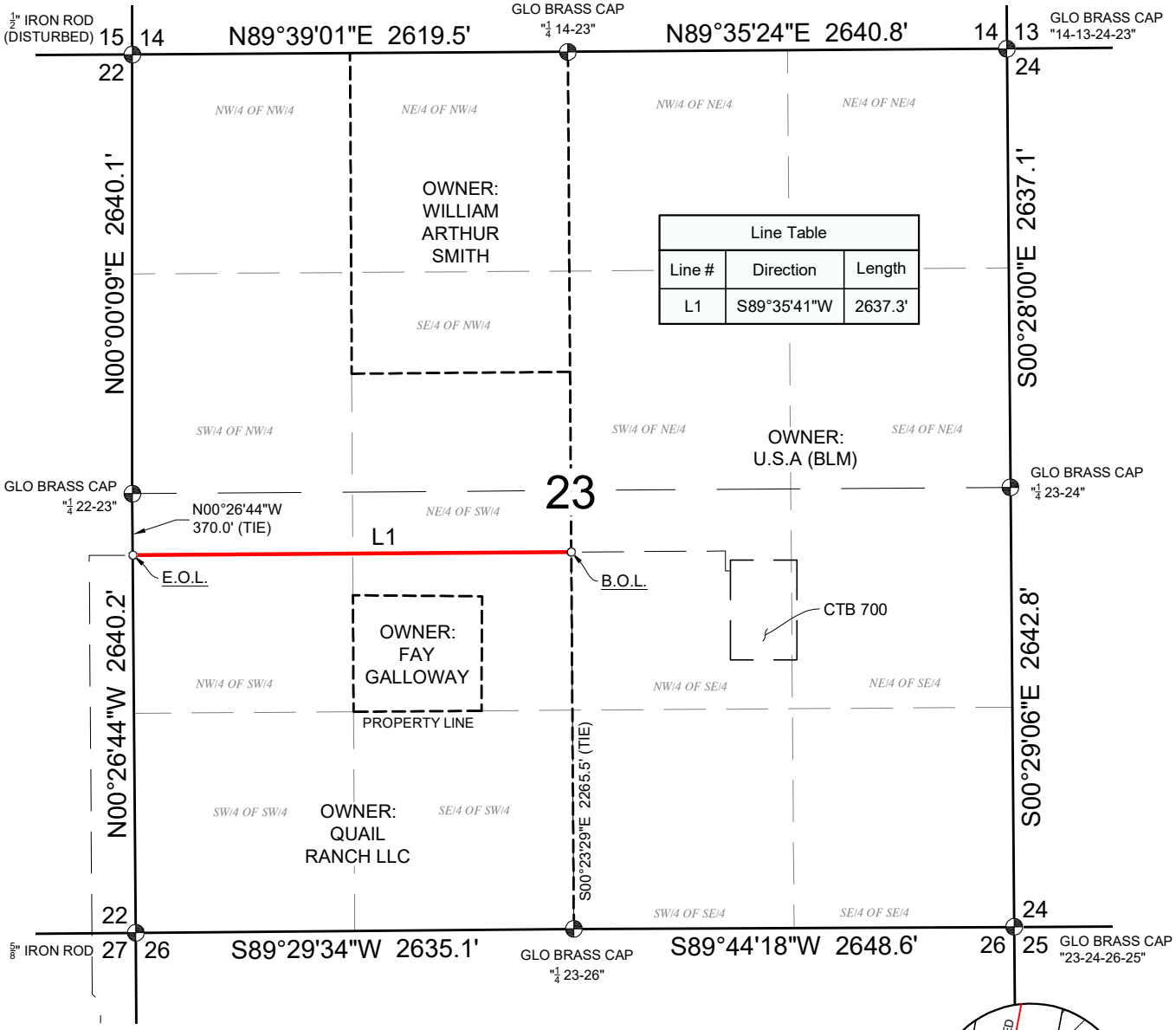
eog resources

GRACKLE 23 EAST FC CTB 700 PROPOSED OIL LINE CROSSING SEC. 23, T-24-S, R-34-E, N.M.P.M., LEA COUNTY, NEW MEXICO

ASCENT GEOMATICS SOLUTIONS
COLLECT-ANALYZE-DELIVER GEOSPATIAL DATA
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680

PLAT: P:\EOG_B20\0054\PROD\ROW EXHIBITS\UTILITIES\GRACKLE_23_EAST_FED_COM_OIL_CTB_700_SEC_23 J.WILSON LAYOUT TAB: SHEET 1

SECTION 23, TOWNSHIP 24 SOUTH, RANGE 34 EAST,
LEA COUNTY, NEW MEXICO

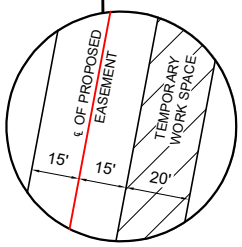


GRACKLE 23 EAST FC CTB 700 OIL LINE
CENTERLINE DESCRIPTION

A PROPOSED OIL LINE SITUATED IN THE NORTH HALF OF THE SOUTHWEST QUARTER OF SECTION 23, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AS CONVEYED TO QUAIL RANCH LLC, AND BEING 15 FEET LEFT AND 15 FEET RIGHT OF THE SURVEY OF CENTERLINE AS SHOWN HEREON AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS;

BEGINNING AT A POINT, FROM WHICH A GLO BRASS CAP FOUND AND ACCEPTED AS THE SOUTH QUARTER CORNER OF SAID SECTION 23 BEARS S00°23'29"E, 2265.5 FEET, FOR THE BEGINNING OF THE HEREIN DESCRIBED CENTERLINE;

THENCE THE FOLLOWING ONE (1) COURSE, S89°35'41"W, 2637.3 FEET TO A POINT, BEING THE END OF THE DESCRIBED CENTERLINE, FROM WHICH A GLO BRASS CAP FOUND AND ACCEPTED AS THE WEST QUARTER CORNER OF SAID SECTION 23 BEARS N00°26'44"W, 370.0 FEET, IN ALL BEING 2637.3 FEET OR 159.8 RODS IN LENGTH.



TYPICAL N.T.S
PERMANENT EASEMENT, TEMPORARY WORK SPACE CONFIGURATION

NOTES:
- BEARINGS, COORDINATES, AND DISTANCES SHOWN HEREON ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83- 2011 (EPOCH 2010) FRAMEWORK, AS DERIVED BY OPUS SOLUTION.
- LAND OWNERSHIP INFORMATION REFLECTED HEREON WAS PROVIDED BY CLIENT AND/OR OBTAINED FROM PUBLIC DOMAIN DATA, NO INDEPENDENT OWNERSHIP SEARCH WAS PERFORMED BY ASCENT

0 500' 1000'
SCALE: 1"= 1000'

OIL LINE
POINT FOR BEGIN/END OR ANGLE POINT
FOUND MONUMENT AS SHOWN
CALCULATED CORNER

I, RALPH B. CHUSTZ, JR., NEW MEXICO PROFESSIONAL SURVEYOR NO. 26264, DO HEREBY CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT PLAT OF A PROPOSED EASEMENT.

RALPH B. CHUSTZ, JR., N.M. P.L.S. **No.26264**

SURVEY DATE: 06/10/2021
JOB NO.: B20.EOG.0054
DRAFT: LJ
SHEET: 1 OF 1

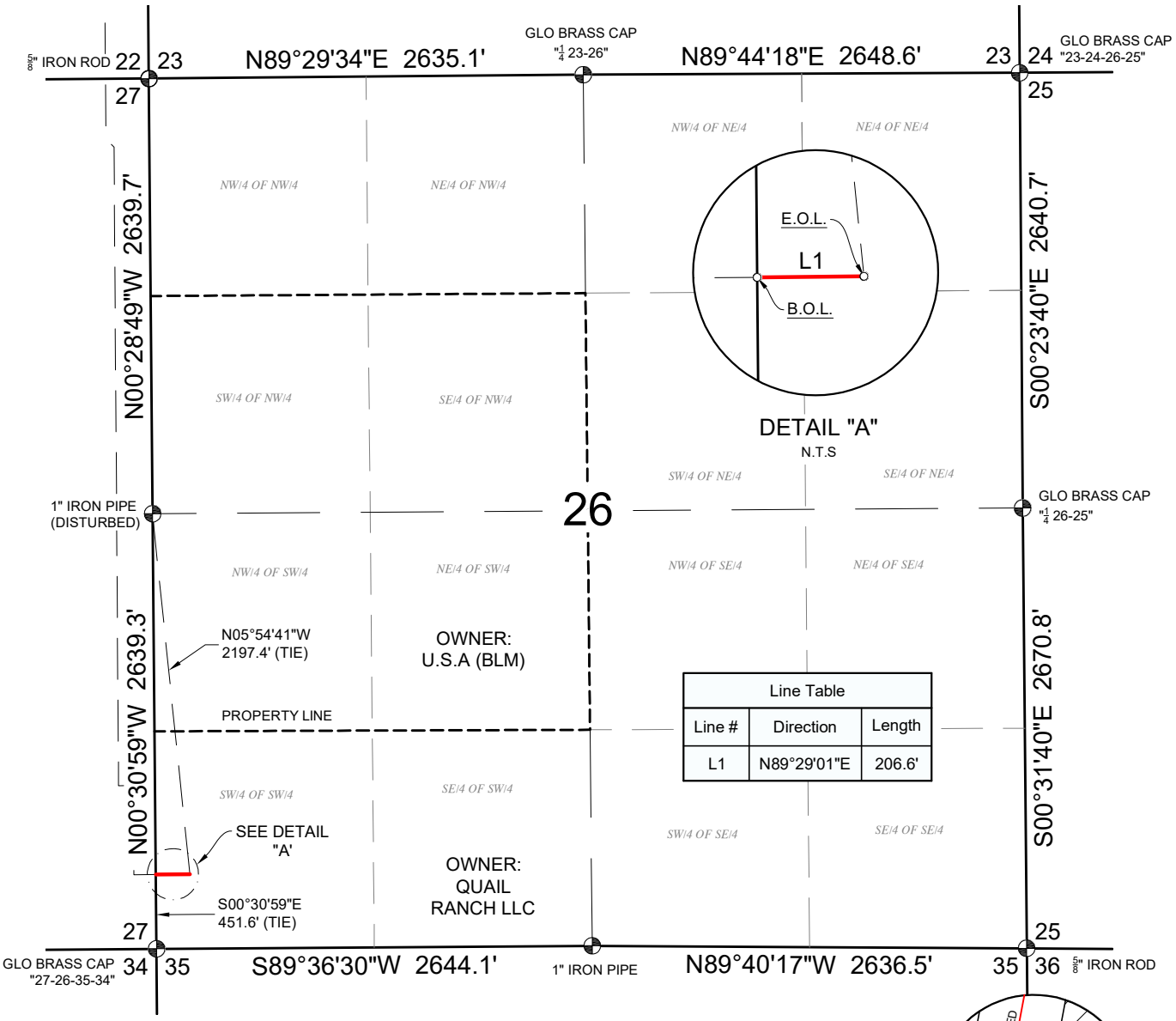
eog resources

GRACKLE 23 EAST FC CTB 700 PROPOSED OIL LINE
CROSSING SEC. 23, T-24-S, R-34-E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

ASCENT GEOMATICS SOLUTIONS
COLLECT-ANALYZE-DELIVER
GEOSPATIAL DATA
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680

PLAT: P:\EOG_B20\0054\PROD\ROW EXHIBITS\UTILITIES\GRACKLE_23_EAST_FED_COM_OIL_CTB_700_SEC_23_J\WILSON LAYOUT TAB: SHEET 1

SECTION 26, TOWNSHIP 24 SOUTH, RANGE 34 EAST,
LEA COUNTY, NEW MEXICO



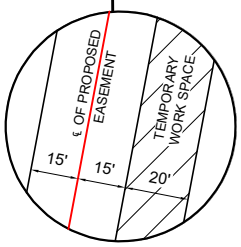
Line Table		
Line #	Direction	Length
L1	N89°29'01"E	206.6'

GRACKLE 23 EAST FC CTB 700 OIL LINE
CENTERLINE DESCRIPTION

A PROPOSED OIL LINE SITUATED IN THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 26, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AS CONVEYED TO QUAIL RANCH LLC, AND BEING 15 FEET LEFT AND 15 FEET RIGHT OF THE SURVEY OF CENTERLINE AS SHOWN HEREON AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS;

BEGINNING AT A POINT, FROM WHICH A GLO BRASS CAP FOUND AND ACCEPTED AS THE SOUTHWEST CORNER OF SAID SECTION 26 BEARS S00°30'59"E, 451.6 FEET, FOR THE BEGINNING OF THE HEREIN DESCRIBED CENTERLINE;

THENCE THE FOLLOWING ONE (1) COURSE, N89°29'01"E, 206.6 FEET TO A POINT, BEING THE END OF THE DESCRIBED CENTERLINE, FROM WHICH A 1" IRON PIPE FOUND AND ACCEPTED AS THE WEST QUARTER CORNER OF SAID SECTION 26 BEARS N05°54'41"W, 2197.4 FEET, IN ALL BEING 206.6 FEET OR 12.5 RODS IN LENGTH.



TYPICAL N.T.S
PERMANENT EASEMENT,
TEMPORARY WORK SPACE
CONFIGURATION

NOTES:
- BEARINGS, COORDINATES, AND DISTANCES SHOWN HEREON ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83- 2011 (EPOCH 2010) FRAMEWORK, AS DERIVED BY OPUS SOLUTION.
- LAND OWNERSHIP INFORMATION REFLECTED HEREON WAS PROVIDED BY CLIENT AND/OR OBTAINED FROM PUBLIC DOMAIN DATA, NO INDEPENDENT OWNERSHIP SEARCH WAS PERFORMED BY ASCENT

0 500 1000'
SCALE: 1"= 1000'

OIL LINE
POINT FOR BEGIN/END OR ANGLE POINT
FOUND MONUMENT AS SHOWN
CALCULATED CORNER

I, RALPH B. CHUSTZ, JR., NEW MEXICO PROFESSIONAL SURVEYOR NO. 26264, DO HEREBY CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT PLAT OF A PROPOSED EASEMENT.

RALPH B. CHUSTZ, JR., N.M. P.L.S. **No.26264**

SURVEY DATE: 06/10/2021
JOB NO.: B20.EOG.0054
DRAFT: JW
SHEET: 1 OF 1

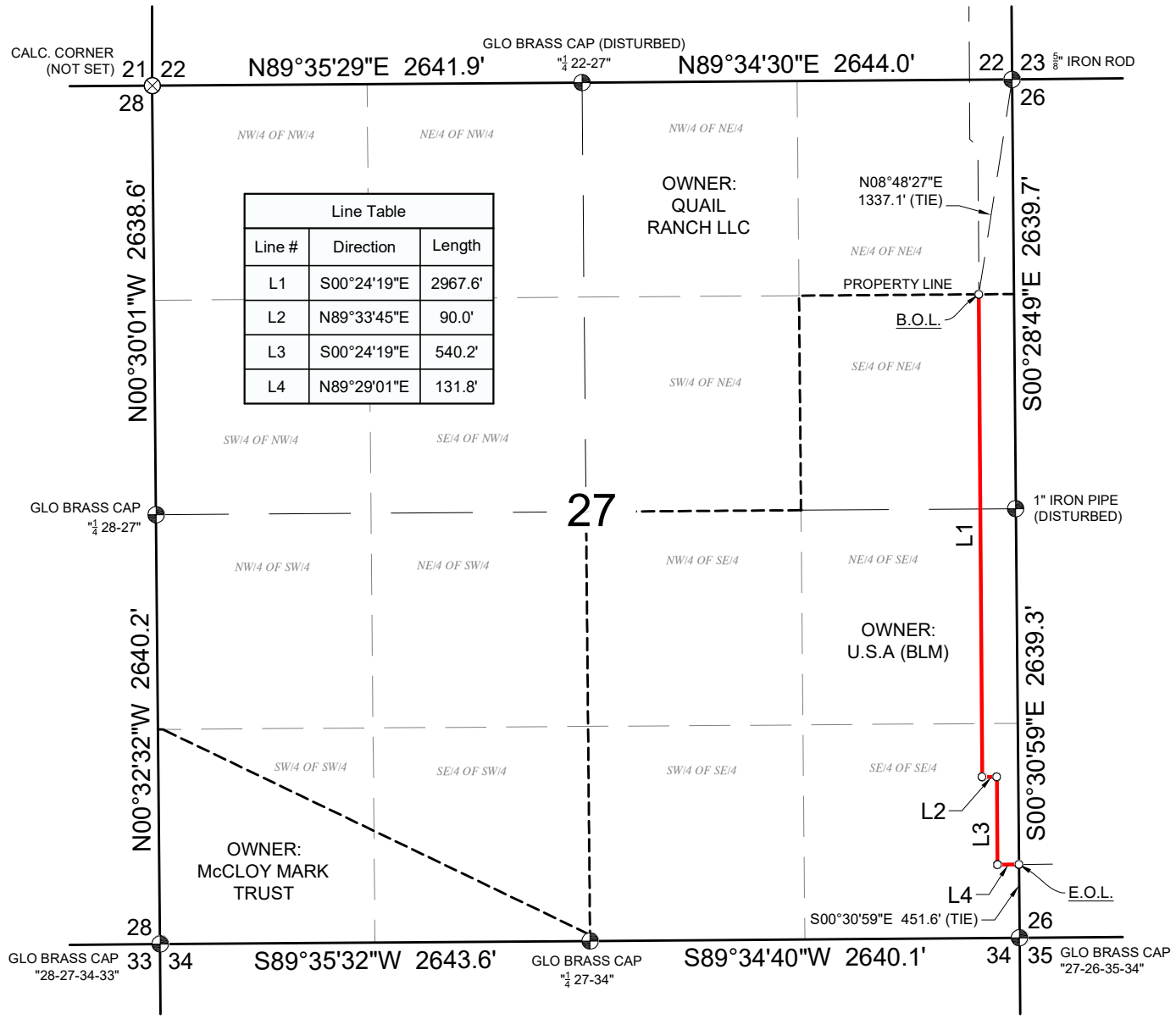
eog resources

GRACKLE 23 EAST FC CTB 700 PROPOSED OIL LINE
CROSSING SEC. 26, T-24-S, R-34-E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

ASCENT GEOMATICS SOLUTIONS
COLLECT-ANALYZE-DELIVER
GEOSPATIAL DATA
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680

PLAT: P:\EOG_B200054\PROD\ROW EXHIBITS\UTILITIES\GRACKLE_23_EAST_FED_COM_UTILITIES_CTB_700_SEC_26 JWILSON LAYOUT TAB: SHEET 1

SECTION 27, TOWNSHIP 24 SOUTH, RANGE 34 EAST,
LEA COUNTY, NEW MEXICO

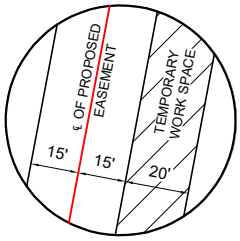


Line Table		
Line #	Direction	Length
L1	S00°24'19"E	2967.6'
L2	N89°33'45"E	90.0'
L3	S00°24'19"E	540.2'
L4	N89°29'01"E	131.8'

GRACKLE 23 EAST FC CTB 700 OIL LINE

CENTERLINE DESCRIPTION

A STRIP OF LAND 30 FEET IN WIDTH AND 3729.6 FEET, 226.0 RODS OR 0.71 MILES IN LENGTH, SITUATED IN SECTION 27, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AND BEING 15 FEET LEFT AND 15 FEET RIGHT OF THE SURVEY OF CENTERLINE AS SHOWN HEREON.



TYPICAL N.T.S
PERMANENT EASEMENT, TEMPORARY WORK SPACE CONFIGURATION

- OIL LINE
- POINT FOR BEGIN/END OR ANGLE POINT
- FOUND MONUMENT AS SHOWN
- CALCULATED CORNER

0 500' 1000'
SCALE: 1"= 1000'

NOTES:
- BEARINGS, COORDINATES, AND DISTANCES SHOWN HEREON ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83- 2011 (EPOCH 2010) FRAMEWORK, AS DERIVED BY OPUS SOLUTION.
- LAND OWNERSHIP INFORMATION REFLECTED HEREON WAS PROVIDED BY CLIENT AND/OR OBTAINED FROM PUBLIC DOMAIN DATA, NO INDEPENDENT OWNERSHIP SEARCH WAS PERFORMED BY ASCENT

I, RALPH B. CHUSTZ, JR., NEW MEXICO PROFESSIONAL SURVEYOR NO. 26264, DO HEREBY CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT PLAT OF A PROPOSED EASEMENT.

RALPH B. CHUSTZ, JR., N.M. P.L.S. **No.26264**

SURVEY DATE: 06/10/2021
JOB NO.: B20.EOG.0054
DRAFT: LJ
SHEET: 1 OF 1

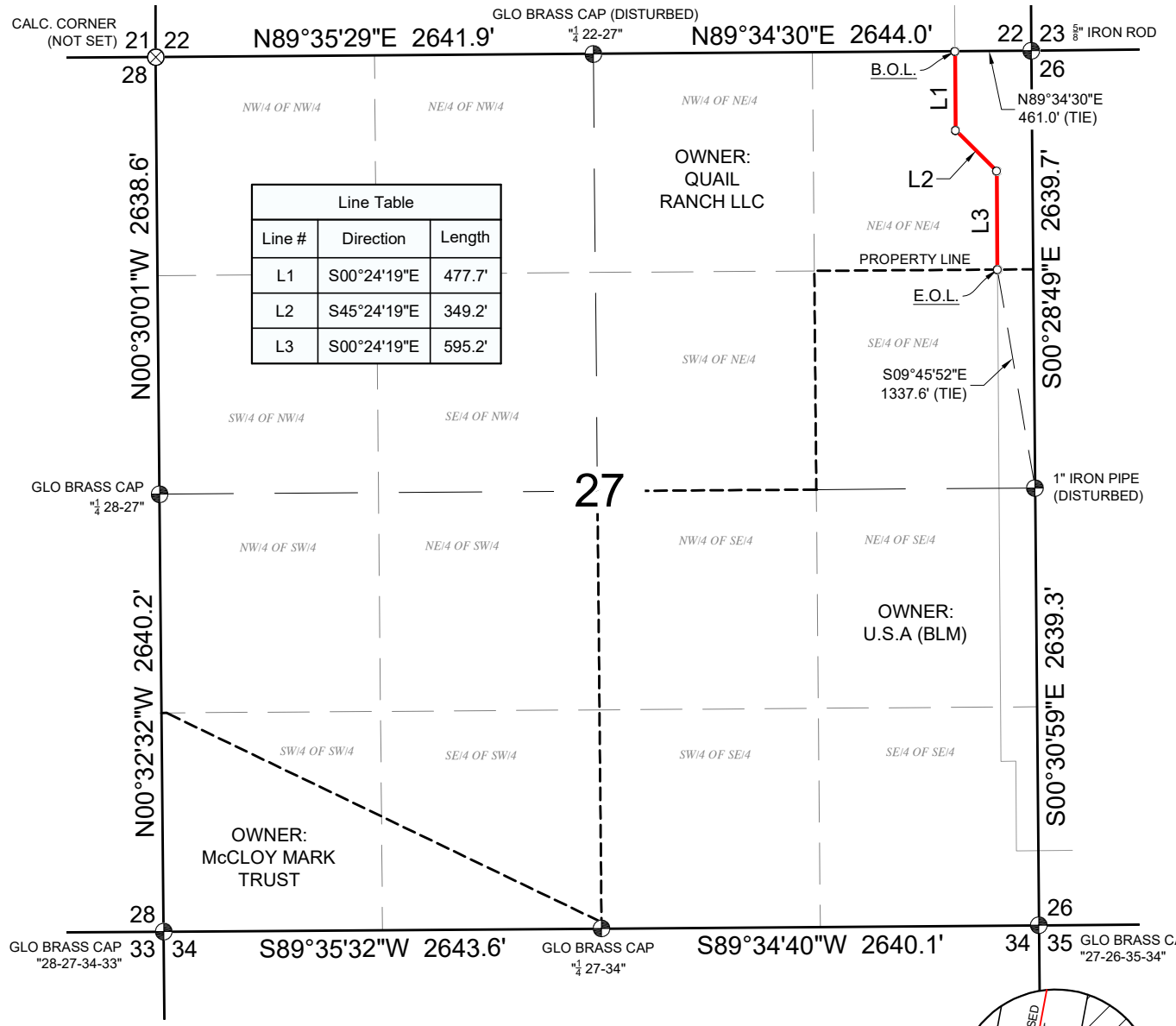
eog resources

GRACKLE 23 EAST FC CTB 700 PROPOSED OIL LINE CROSSING SEC. 27, T-24-S, R-34-E, N.M.P.M., LEA COUNTY, NEW MEXICO

ASCENT GEOMATICS SOLUTIONS
COLLECT-ANALYZE-DELIVER GEOSPATIAL DATA
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680

PLAT: P:\EOG_B200654\PROD\ROW EXHIBITS\UTILITIES\GRACKLE_23_EAST_FED_COM_OIL_CTB_700_SEC_27 JWILSON LAYOUT TAB: SHEET 1

SECTION 27, TOWNSHIP 24 SOUTH, RANGE 34 EAST,
LEA COUNTY, NEW MEXICO



Line Table		
Line #	Direction	Length
L1	S00°24'19"E	477.7'
L2	S45°24'19"E	349.2'
L3	S00°24'19"E	595.2'

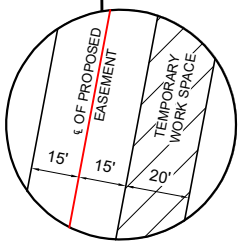
GRACKLE 23 EAST FC CTB 700 OIL LINE
CENTERLINE DESCRIPTION

A PROPOSED OIL LINE SITUATED IN THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 27, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AS CONVEYED TO QUAIL RANCH LLC, AND BEING 15 FEET LEFT AND 15 FEET RIGHT OF THE SURVEY OF CENTERLINE AS SHOWN HEREON AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS;

BEGINNING AT A POINT, FROM WHICH A 5/8" IRON ROD FOUND AND ACCEPTED AS THE NORTHEAST CORNER OF SAID SECTION 27 BEARS N89°34'30"E, 461.0 FEET, FOR THE BEGINNING OF THE HEREIN DESCRIBED CENTERLINE;

THENCE THE FOLLOWING TWO (2) COURSES, S00°24'19"E, 477.7 FEET, S45°24'19"E, 349.2 FEET, TO AN ANGLE POINT HEREOF;

THENCE S00°24'19"E, 595.2 FEET TO A POINT, BEING THE END OF THE DESCRIBED CENTERLINE, FROM WHICH A 1" IRON PIPE FOUND AND ACCEPTED AS THE EAST QUARTER CORNER OF SAID SECTION 27 BEARS S09°45'52"E, 1337.6 FEET, IN ALL BEING 1422.1 FEET OR 86.2 RODS IN LENGTH.



TYPICAL N.T.S
PERMANENT EASEMENT, TEMPORARY WORK SPACE CONFIGURATION

NOTES:
- BEARINGS, COORDINATES, AND DISTANCES SHOWN HEREON ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83- 2011 (EPOCH 2010) FRAMEWORK, AS DERIVED BY OPUS SOLUTION.
- LAND OWNERSHIP INFORMATION REFLECTED HEREON WAS PROVIDED BY CLIENT AND/OR OBTAINED FROM PUBLIC DOMAIN DATA, NO INDEPENDENT OWNERSHIP SEARCH WAS PERFORMED BY ASCENT

0 500' 1000'
SCALE: 1"= 1000'

OIL LINE
POINT FOR BEGIN/END OR ANGLE POINT
FOUND MONUMENT AS SHOWN
CALCULATED CORNER

08/16/2021
RALPH B. CHUSTZ, JR. NEW MEXICO 26264 PROFESSIONAL SURVEYOR

I, RALPH B. CHUSTZ, JR., NEW MEXICO PROFESSIONAL SURVEYOR NO. 26264, DO HEREBY CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT PLAT OF A PROPOSED EASEMENT.

RALPH B. CHUSTZ, JR., N.M. P.L.S. **No.26264**

SURVEY DATE: 06/10/2021
JOB NO.: B20.EOG.0054
DRAFT: LJ
SHEET: 1 OF 1

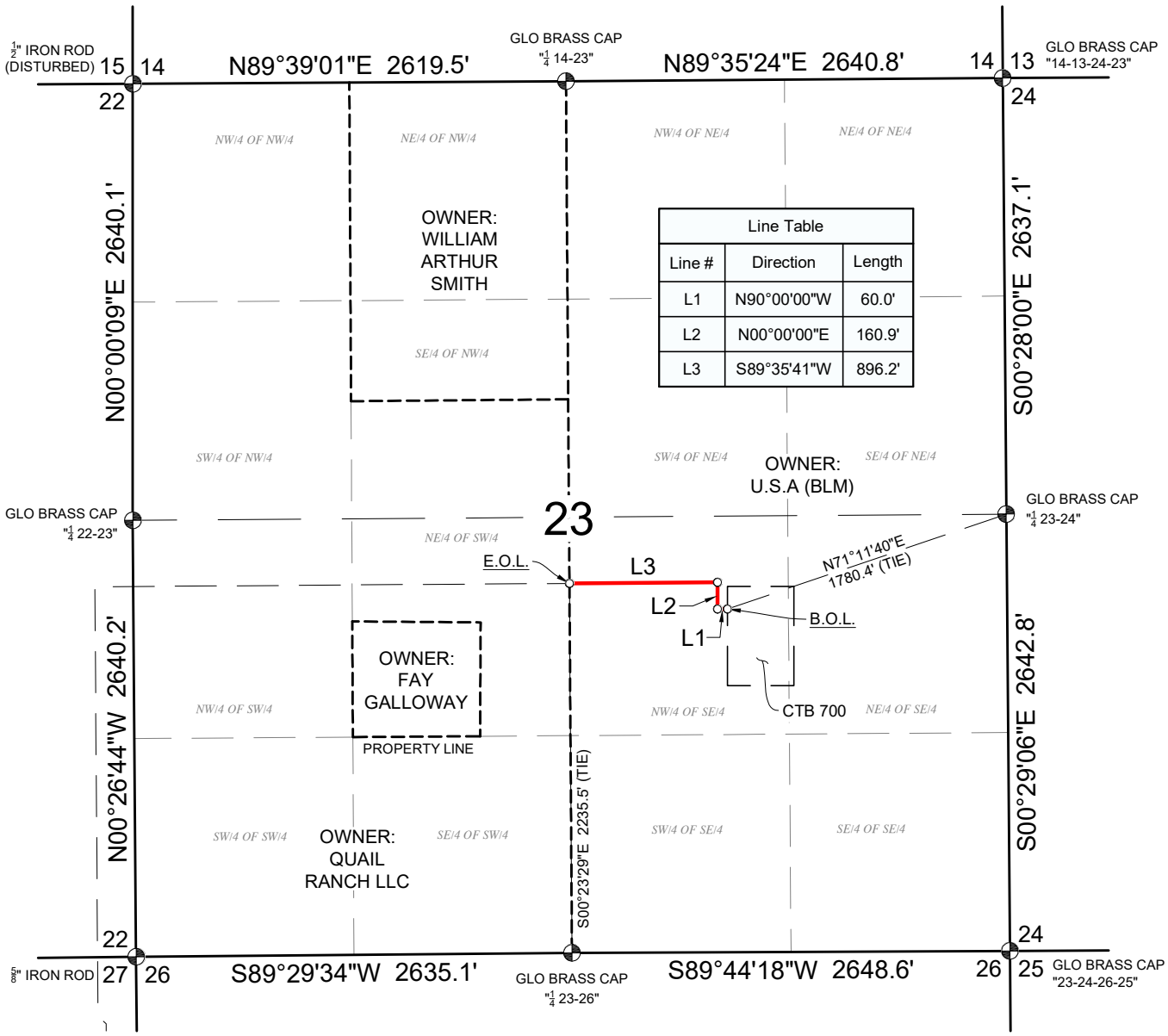
eog resources

GRACKLE 23 EAST FC CTB 700 PROPOSED OIL LINE
CROSSING SEC. 27, T-24-S, R-34-E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

ASCENT GEOMATICS SOLUTIONS
COLLECT-ANALYZE-DELIVER
GEOSPATIAL DATA
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680

PLAT: P:\EOG_B20\0054\PROD\ROW EXHIBITS\UTILITIES\GRACKLE_23_EAST_FED_COM_OIL_CTB_700_SEC_27 JWILSON LAYOUT TAB: SHEET 1

SECTION 23, TOWNSHIP 24 SOUTH, RANGE 34 EAST,
LEA COUNTY, NEW MEXICO

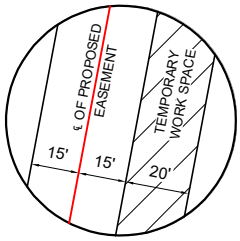


Line Table		
Line #	Direction	Length
L1	N90°00'00"W	60.0'
L2	N00°00'00"E	160.9'
L3	S89°35'41"W	896.2'

GRACKLE 23 EAST FC CTB 700 WATER LINE

CENTERLINE DESCRIPTION

A STRIP OF LAND 30 FEET IN WIDTH AND 1117.1 FEET, 67.7 RODS OR 0.21 MILES IN LENGTH, SITUATED IN SECTION 23, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AND BEING 15 FEET LEFT AND 15 FEET RIGHT OF THE SURVEY OF CENTERLINE AS SHOWN HEREON.



TYPICAL N.T.S
PERMANENT EASEMENT, TEMPORARY WORK SPACE CONFIGURATION

- WATER LINE
- POINT FOR BEGIN/END OR ANGLE POINT
- FOUND MONUMENT AS SHOWN
- CALCULATED CORNER

NOTES:
- BEARINGS, COORDINATES, AND DISTANCES SHOWN HEREON ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83- 2011 (EPOCH 2010) FRAMEWORK, AS DERIVED BY OPUS SOLUTION.
- LAND OWNERSHIP INFORMATION REFLECTED HEREON WAS PROVIDED BY CLIENT AND/OR OBTAINED FROM PUBLIC DOMAIN DATA, NO INDEPENDENT OWNERSHIP SEARCH WAS PERFORMED BY ASCENT

0 500 1000'
SCALE: 1"= 1000'

I, RALPH B. CHUSTZ, JR., NEW MEXICO PROFESSIONAL SURVEYOR NO. 26264, DO HEREBY CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT PLAT OF A PROPOSED EASEMENT.

RALPH B. CHUSTZ, JR., N.M. P.L.S. **No.26264**

SURVEY DATE: 06/10/2021
JOB NO.: B20.EOG.0054
DRAFT: JW
SHEET: 1 OF 1

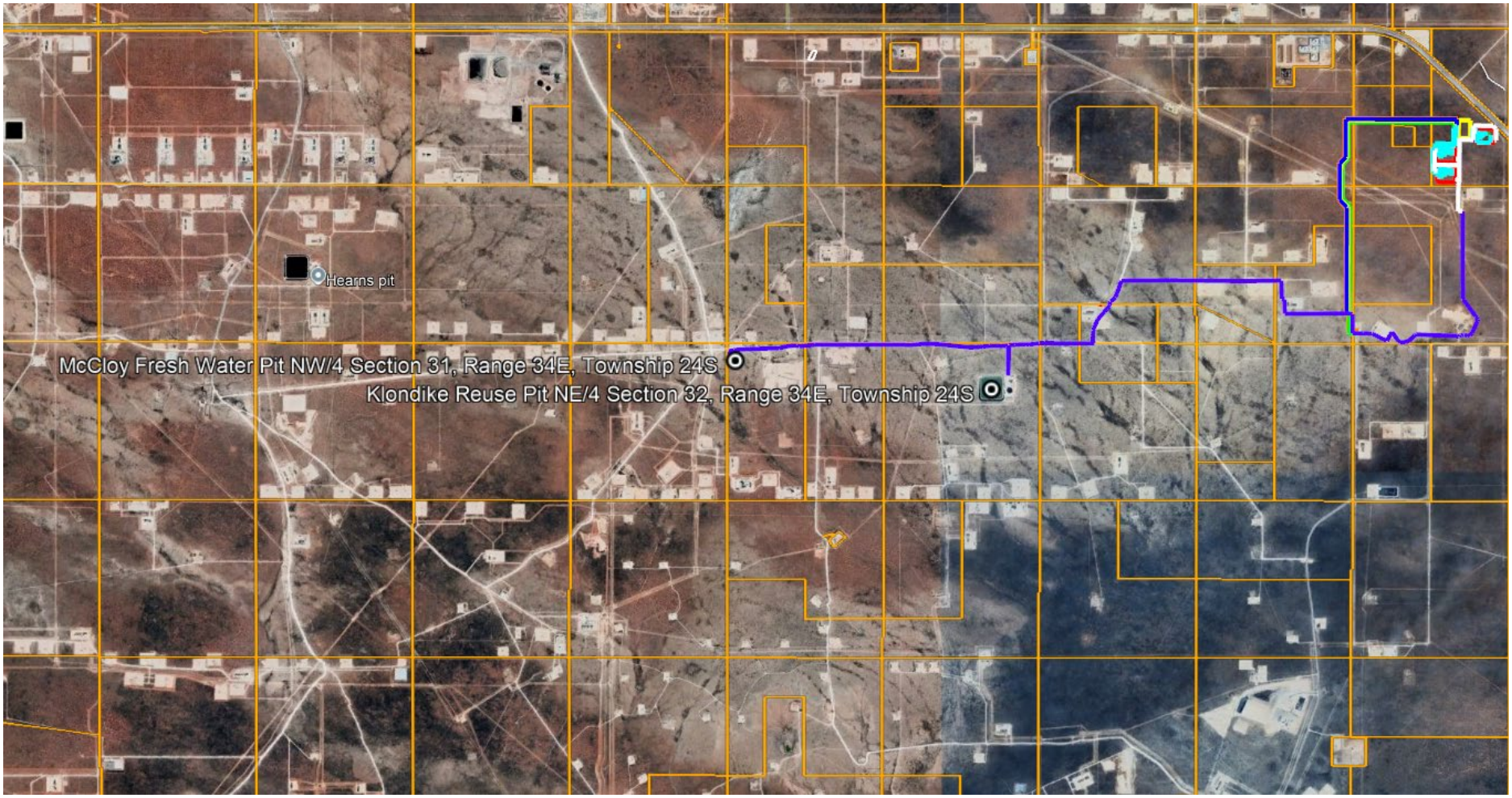
eog resources

GRACKLE 23 EAST FC CTB 700 PROPOSED WATER LINE
CROSSING SEC. 23, T-24-S, R-34-E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

ASCENT GEOMATICS SOLUTIONS
COLLECT-ANALYZE-DELIVER
GEOSPATIAL DATA
2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680

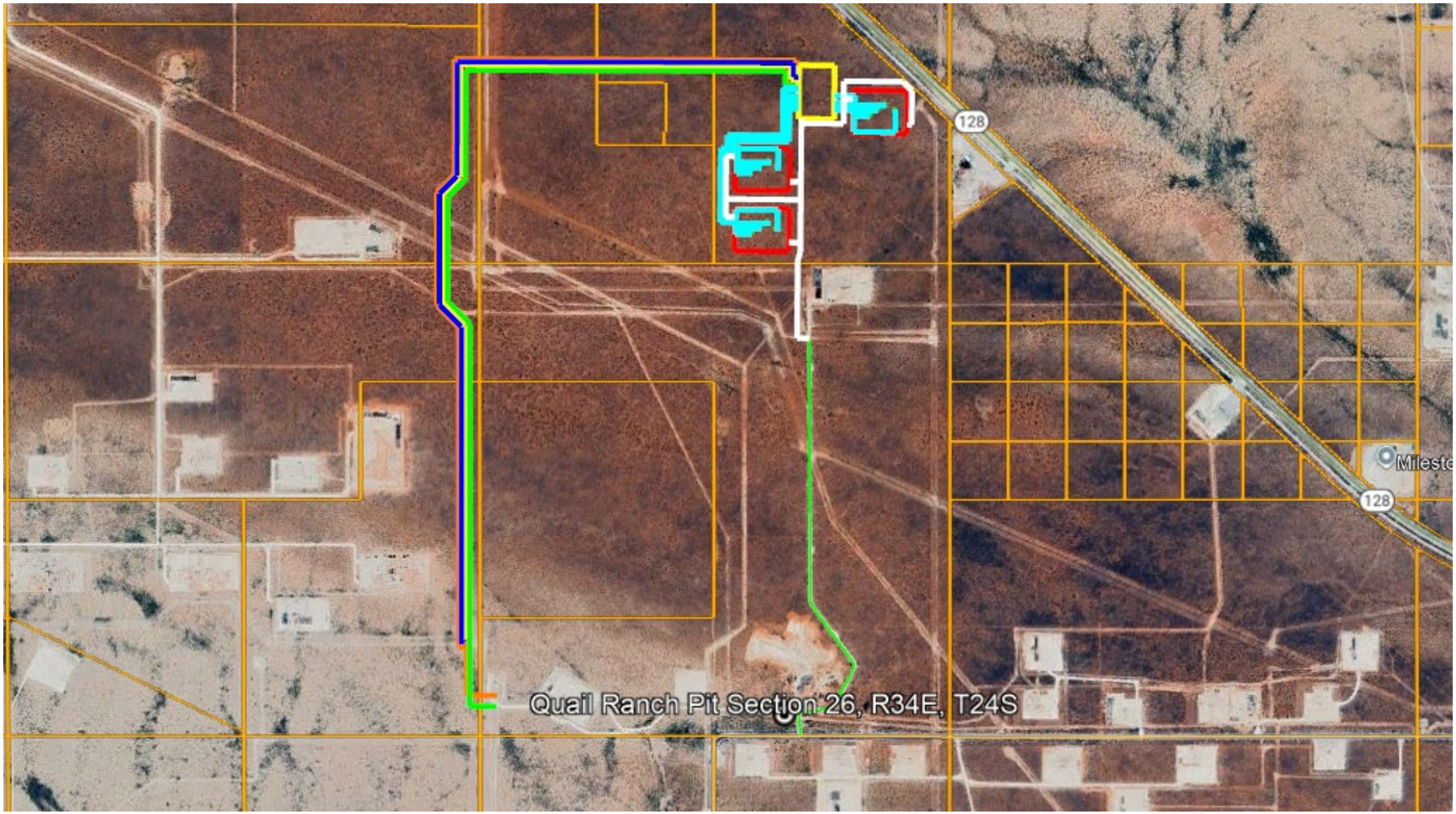
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Wheatfield 16 Fed Com Water Map



Fresh water for drilling will be supplied from EOGs McCloy Freshwater Pit (32.179288°,-103.516590°) in Section 31, Range 34 East, Township 24 South. Reuse water for completions will be supplied from EOGs Klondike Reuse Pit (32.176739°, -103.488660°) in Section 32, Range 34 East, Township 24 South. Temporary layflat lines will be used to transport the water following existing and proposed roads.

Grackle 23 Fed Com Caliche Map



Quail Ranch Battle Axe Pit (32.182265°, -103.437682°)- Section 26, Range 34 East, Township 26 South, Lea County, New Mexico. Access noted in the green route above.

Exhibit 4

Well Site Diagram

EOG Resources
Grackle 23 East Fed Com #501H

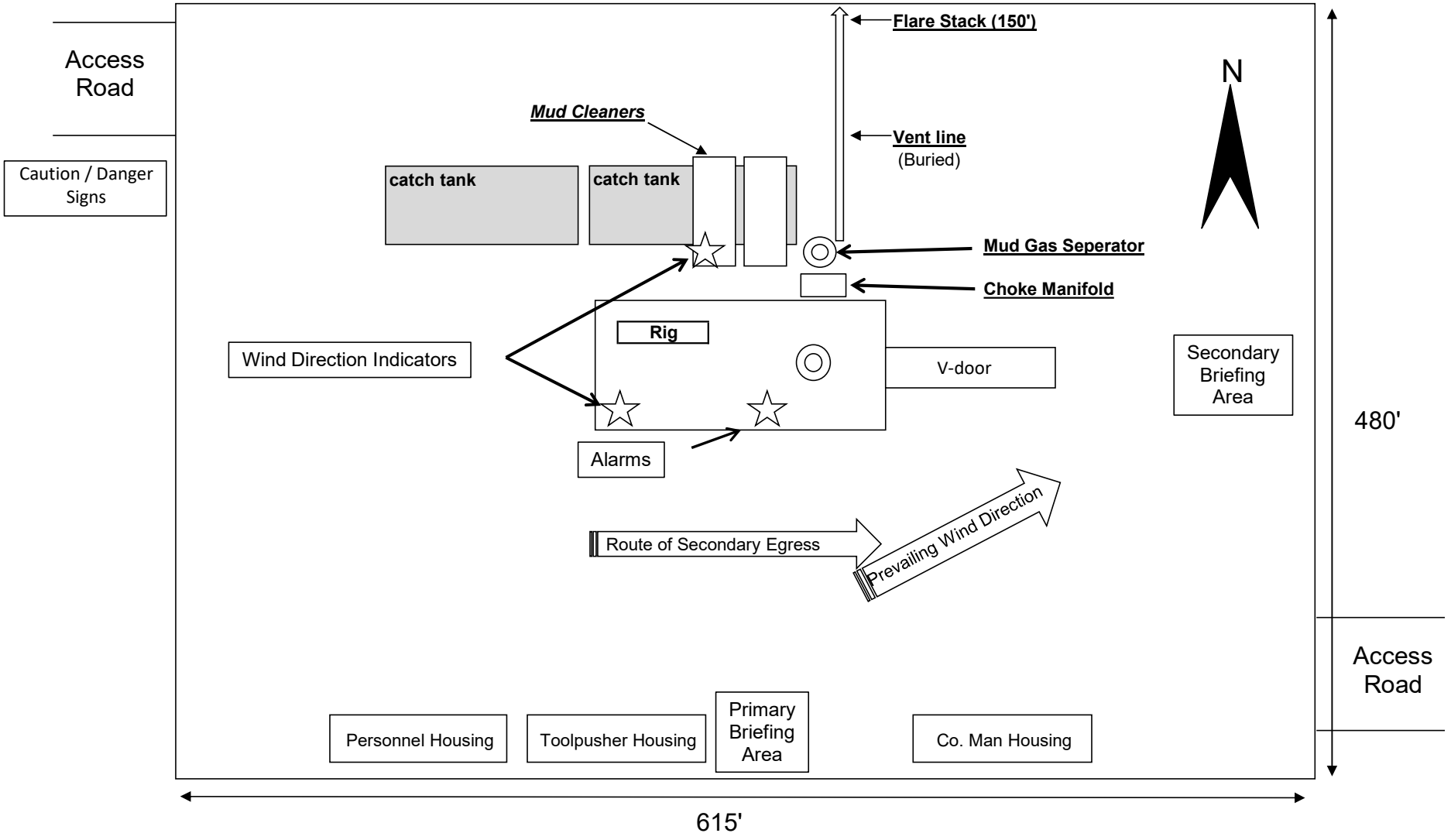
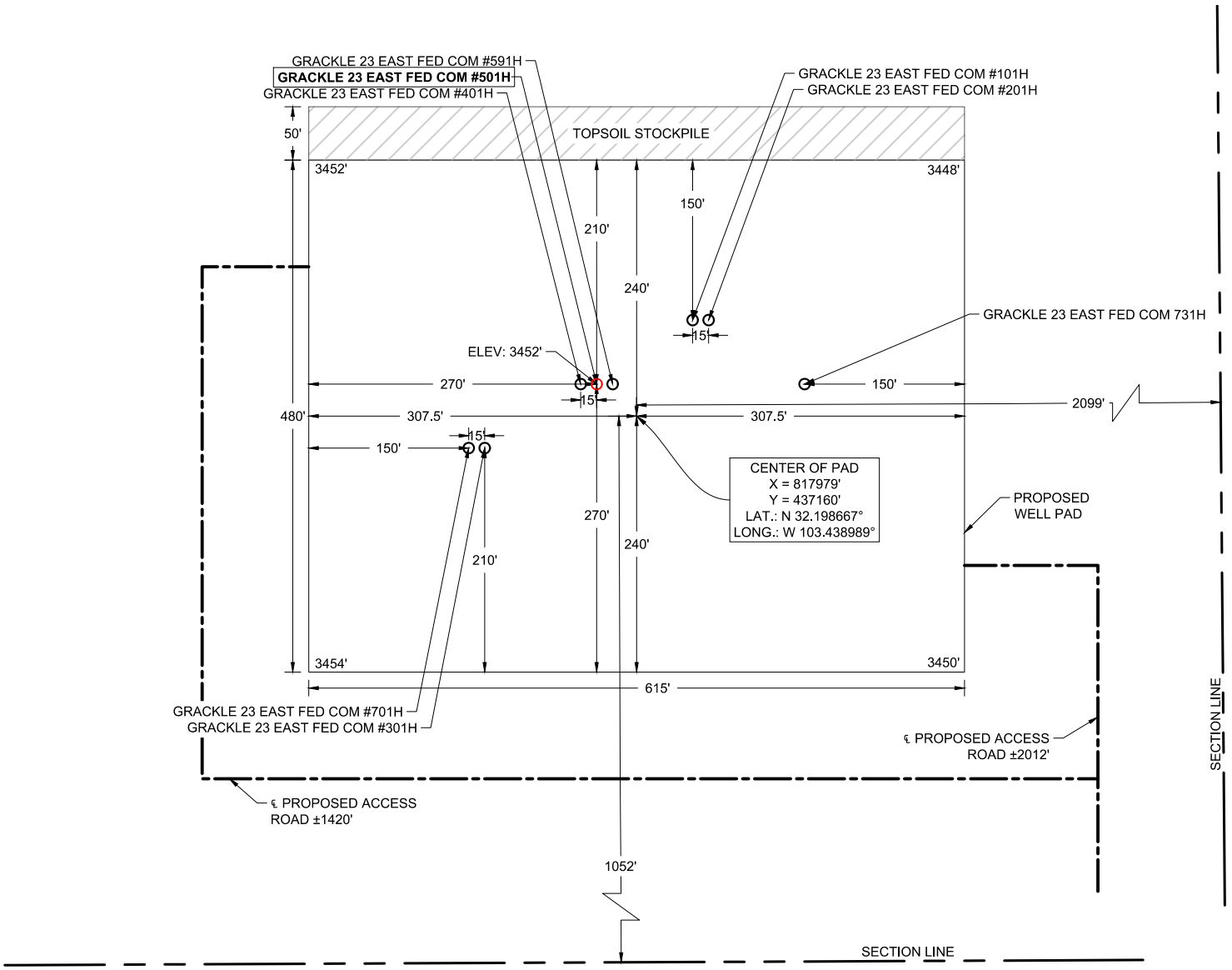


EXHIBIT 2B
PAD LAYOUT



LEASE NAME & WELL NO.: GRACKLE 23 EAST FED COM #501H
LATITUDE: N 32.198750° LONG: W 103.439110° ELEVATION: 3452'

SECTION: 23 TWP: 24 S RGE: 34 E SURVEY: N.M.P.M.
COUNTY: LEA STATE: NM

DESCRIPTION: CENTER OF PAD IS 1052' FSL & 2099' FEL

LEGEND

= PROPOSED ACCESS ROAD
= SECTION LINE

eog resources

JOB No.: EOG_B200054

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE FOLLOWING COORDINATE SYSTEM: NAD83 NEW MEXICO STATE PLANE, EAST ZONE, U.S. SURVEY FEET.

DISCLAIMER:
THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY AND SHOULD NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES, PROPERTY OWNERHIP OR OTHER PROPERTY INTERESTS.

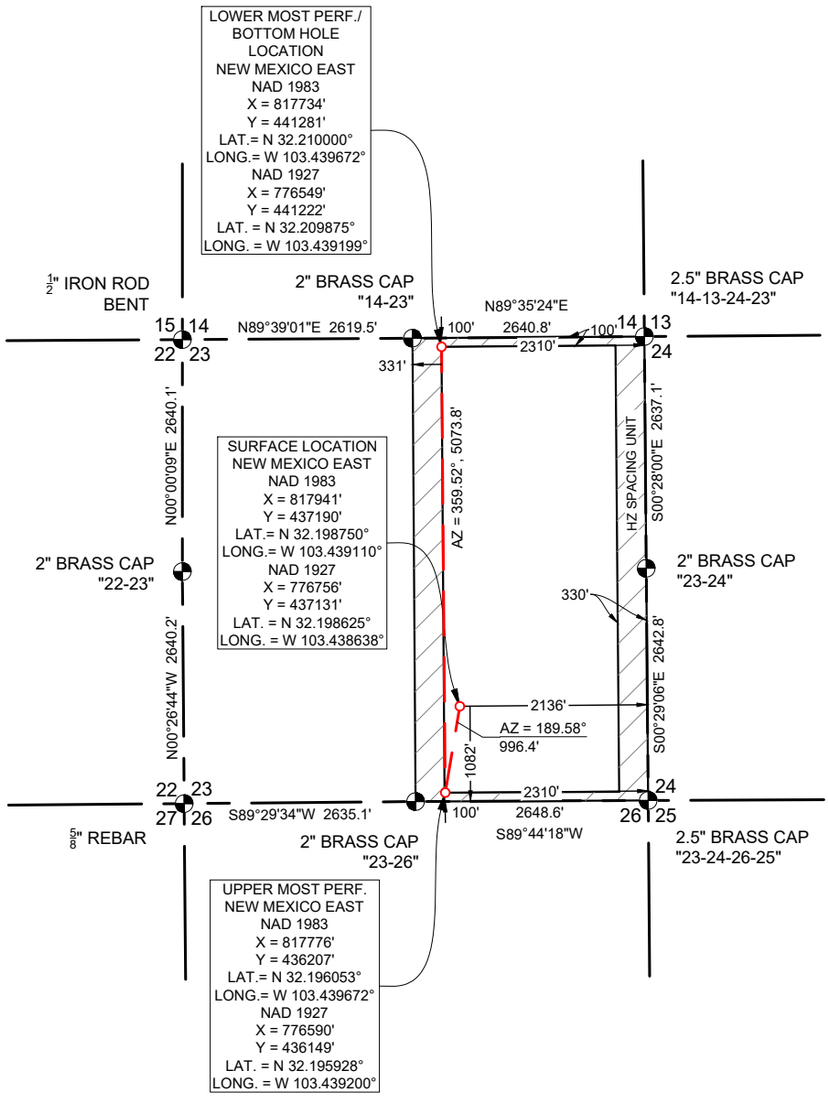
N

0 75 150
SCALE: 1"= 150'

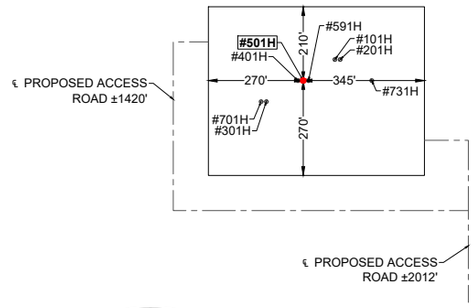
ASCENT GEOMATICS SOLUTIONS
2057 COMMERCE DRIVE.
MIDLAND, TEXAS 79703
OFFICE: (432) 756-5680
WWW.ASCENTGEOMATICS.COM

P:\EOG_B200054-PROJ\Fieldata\5-Grackle 23 East Fed Com Pad\dwg\Grackle 23 East Fed Com Pad.dwg, JSIRY.ANT 2/23/2021 7:48 PM

EXHIBIT 2A
WELL LOCATION EXHIBIT



DETAIL VIEW
SCALE: 1" = 500'



LEASE NAME & WELL NO.: GRACKLE 23 EAST FED COM #501H
LATITUDE: N 32.198750° LONG: W 103.439110° ELEVATION: 3452'

SECTION: 23 TWP: 24 S RGE: 34 E SURVEY: N.M.P.M.
COUNTY: LEA STATE: NM

DESCRIPTION: 1082' FSL & 2136' FEL

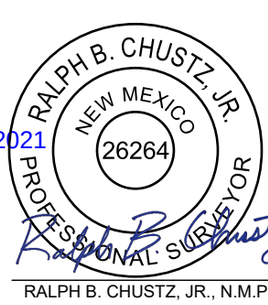
DISTANCE & DIRECTION:

FROM THE INTERSECTION OF NEW MEXICO STATE ROAD 128 AND COUNTY ROAD 2, GO SOUTHWEST ON COUNTY ROAD 2 ±0.32 MILES, THENCE WEST (RIGHT) TO STAY ON COUNTY ROAD 2 ±1.48 MILES, THENCE NORTH (RIGHT) ON A LEASE ROAD ±0.95 MILES; THENCE WEST (LEFT) ON A PROPOSED ROAD ±0.36 MILES; THENCE WEST (LEFT) ON A PROPOSED ROAD ±125 FEET TO THE EDGE OF PAD.
(PROPOSED ACCESS ROAD LENGTH = 2012')

eog resources

JOB No.: EOG_B200054

NOTE:
ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE FOLLOWING COORDINATE SYSTEM: NAD83 NEW MEXICO STATE PLANE, EAST ZONE, U.S. SURVEY FEET.
DISCLAIMER:
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05/11/2021

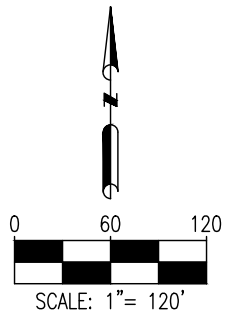
RALPH B. CHUSTZ, JR., N.M.P.L.S. No.26264

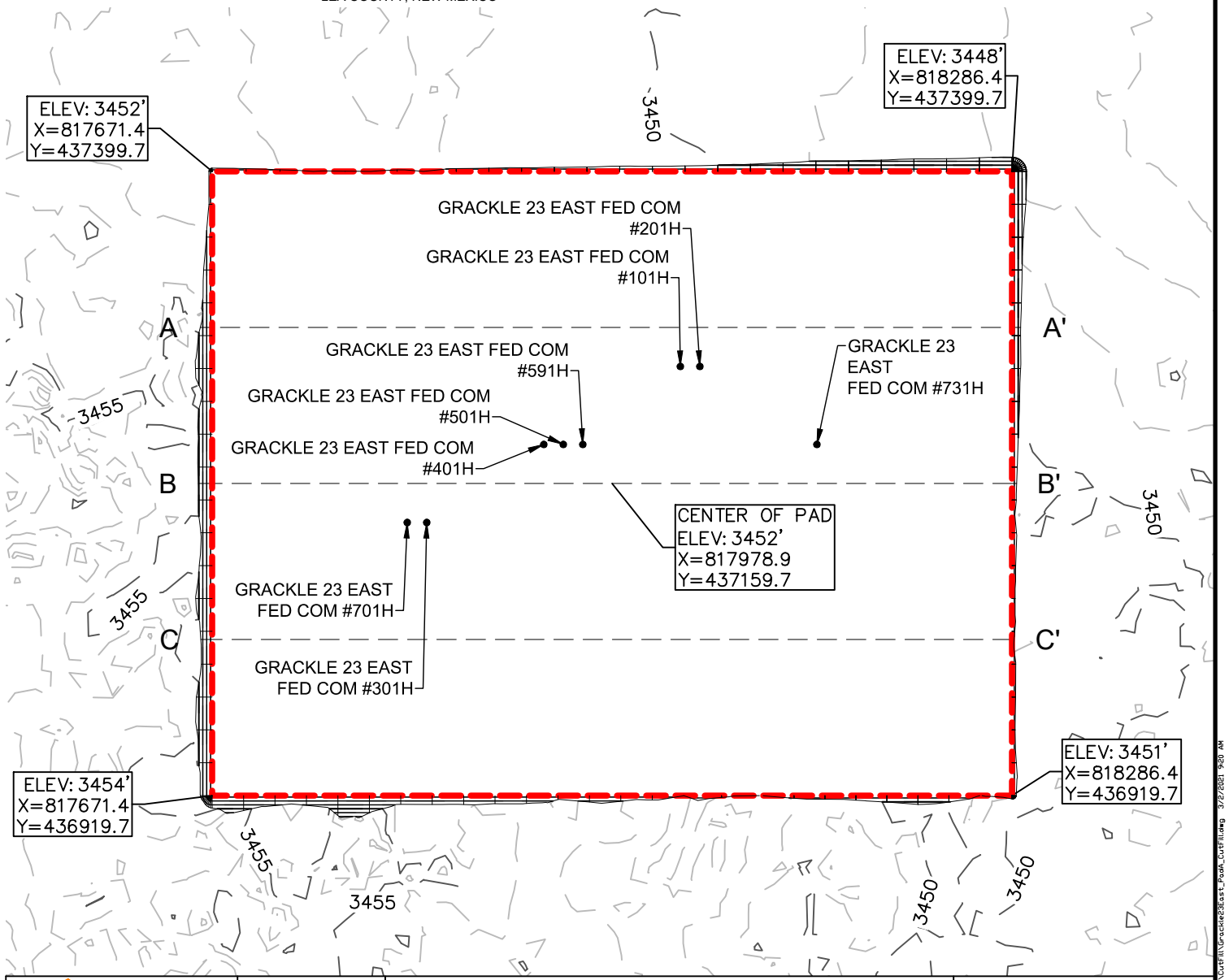
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MIDLAND, TEXAS 79703
OFFICE: (432) 756-5680
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EXHIBIT 6
GRACKLE 23 EAST FED COM
PAD A

SECTION 23, TOWNSHIP 24S, RANGE 34E, N.M.P.M.
LEA COUNTY, NEW MEXICO





PROPOSED QUANTITIES

TOP OF PAD ELEVATION: 3451.6'
CUT SLOPE: 33.33% 3.000:1 18.43°
FILL SLOPE: 33.33% 3.000:1 18.43°
BALANCE TOLERANCE (C.Y.): ±0%
CUT SWELL FACTOR: 1.00
FILL SHRINK FACTOR: 1.00

PAD EARTHWORK VOLUMES
CUT: 220,752 C.F., 8,176 C.Y.
FILL: 220,752 C.F., 8,176 C.Y.
AREA: 308,297 SQ.FT., 7.1 ACRES

NOTES:
1. A COMPLETE UTILITIES LOCATION IS RECOMMENDED BEFORE CONSTRUCTION.
2. ALL BEARING, DISTANCE, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON NAD83 NEW MEXICO STATE PLANE, EAST ZONE, U.S. SURVEY FOOT.
3. EARTHWORK QUANTITIES ARE APPROXIMATE & FOR INFORMATION ONLY. 6" OF TOPSOIL HAS BEEN SUBTRACTED FROM EXISTING SURFACE PRIOR TO PERFORMING EARTHWORK CALCULATIONS.
4. SITE QUANTITIES HAVE BEEN BALANCED TO WITHIN A TENTH OF A FOOT IN ACCORDANCE WITH ACCEPTABLE CONSTRUCTION TOLERANCES.

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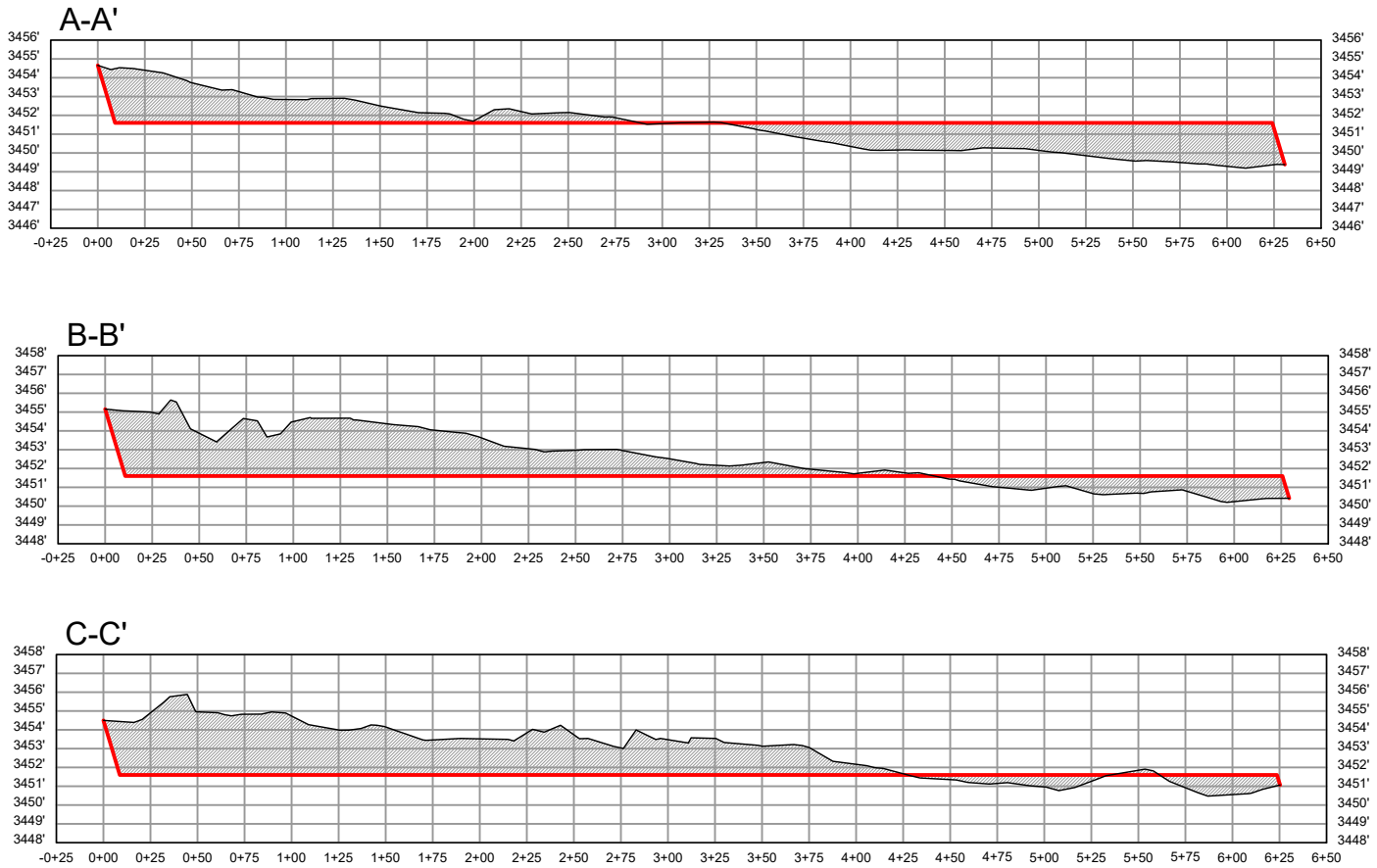
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2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680
www.ascentgeomatics.com

FIELD DATE:	09/09/2020
DRAWING DATE:	02/25/2021
BY:	RMC
CHECKED:	KH
SITE NAME:	GRACKLE 23 EAST FED COM PAD A
SURFACE LOCATION:	SW 1/4 SE 1/4 SEC. 23, T24S, R34E, N.M. P.M. LEA COUNTY, NEW MEXICO
PREPARED FOR:	eog resources

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EXHIBIT 6A
GRACKLE 23 EAST FED COM
PAD A

SECTION 23, TOWNSHIP 24S, RANGE 34E, N.M.P.M.
LEA COUNTY, NEW MEXICO



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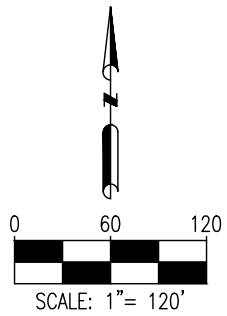
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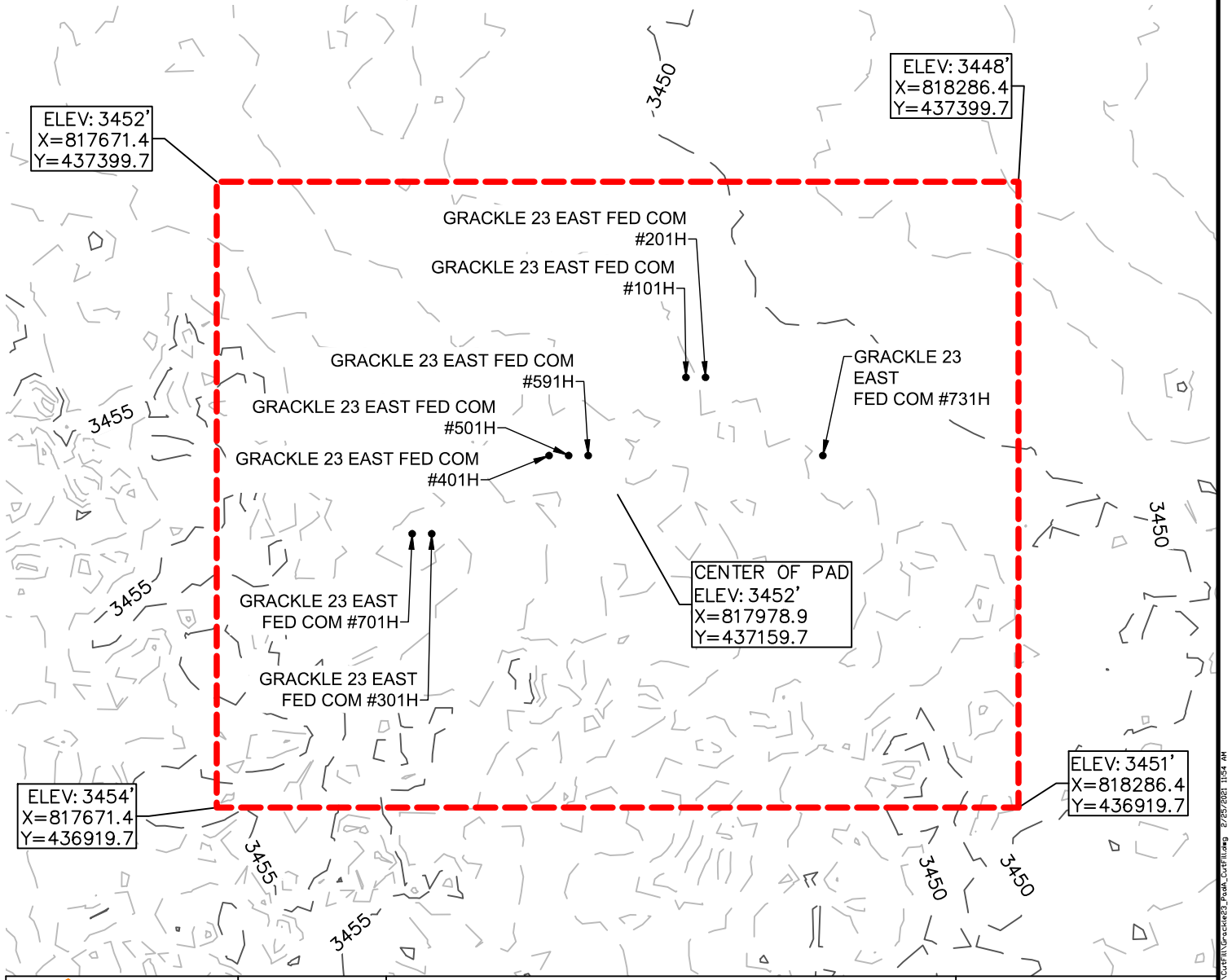
FIELD DATE:	09/09/2020
DRAWING DATE:	02/25/2021
BY:	RMC
CHECKED:	KH
SITE NAME:	GRACKLE 23 EAST FED COM PAD A
SURFACE LOCATION:	SW 1/4 SE 1/4 SEC. 23, T24S, R34E, N.M. P.M. LEA COUNTY, NEW MEXICO
PREPARED FOR:	eog resources

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EXHIBIT 6B
GRACKLE 23 EAST FED COM
PAD A

SECTION 23, TOWNSHIP 24S, RANGE 34E, N.M.P.M.
LEA COUNTY, NEW MEXICO





PROPOSED QUANTITIES

TOP OF PAD ELEVATION: 3451.6'
CUT SLOPE: 33.33% 3.000:1 18.43°
FILL SLOPE: 33.33% 3.000:1 18.43°
BALANCE TOLERANCE (C.Y.): ±0%
CUT SWELL FACTOR: 1.00
FILL SHRINK FACTOR: 1.00

PAD EARTHWORK VOLUMES
CUT: 220,752 C.F., 8,176 C.Y.
FILL: 220,752 C.F., 8,176 C.Y.
AREA: 308,297 SQ.FT., 7.1 ACRES

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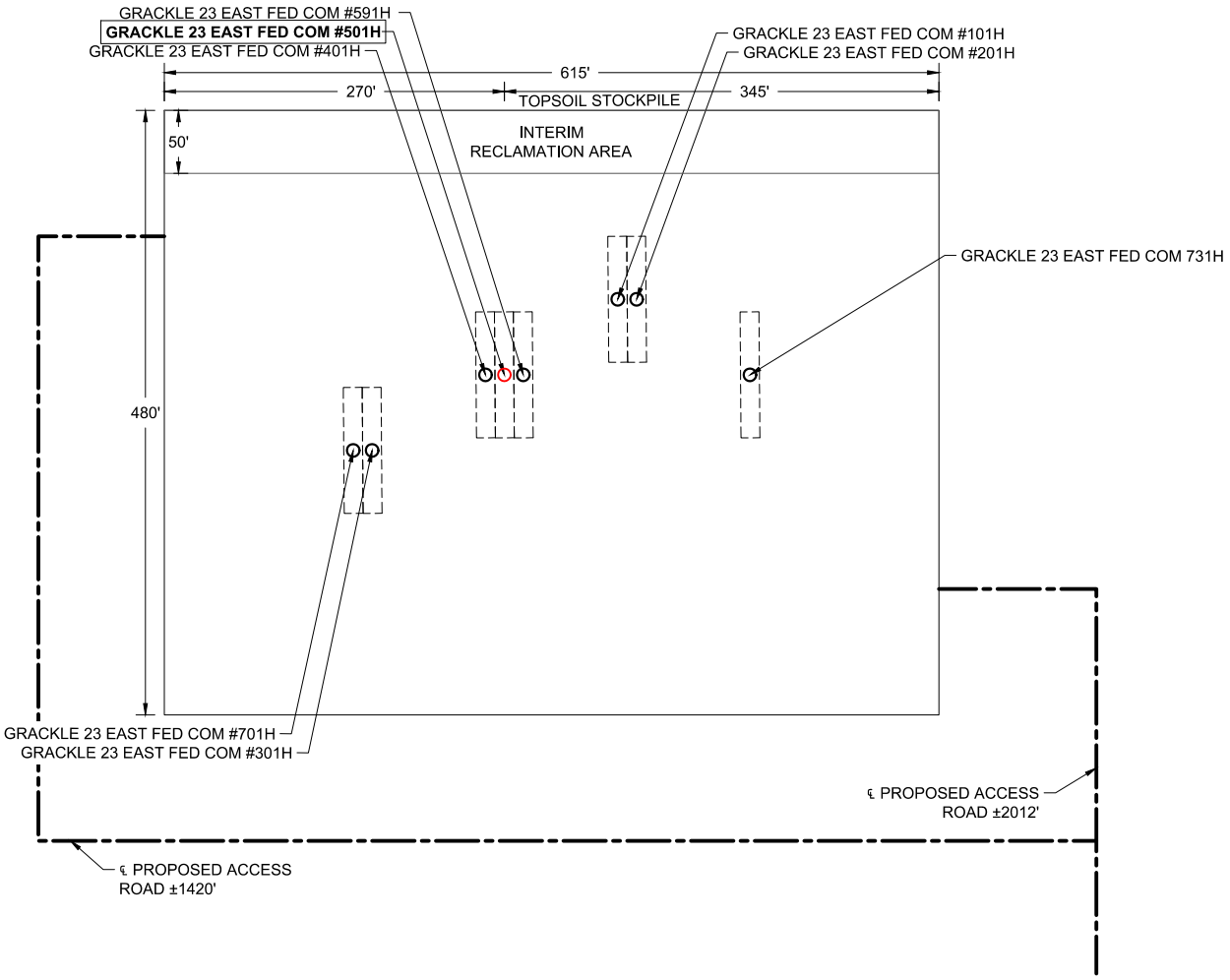
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2057 COMMERCE DRIVE
MIDLAND, TEXAS 79703
(432) 756-5680
www.ascentgeomatics.com

FIELD DATE:	SITE NAME:	PREPARED FOR:
09/09/2020	GRACKLE 23 EAST FED COM PAD A	eog resources
DRAWING DATE: 02/25/2021	SURFACE LOCATION: SW 1/4 SE 1/4 SEC. 23, T24S, R34E, N.M. P.M. LEA COUNTY, NEW MEXICO	
BY: RMC / CHECKED: KH		

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EXHIBIT 2C
RECLAMATION DIAGRAM

DETAIL VIEW
SCALE: 1" = 150'



LEASE NAME & WELL NO.: GRACKLE 23 EAST FED COM #501H
LATITUDE: N 32.198750° LONG: W 103.439110° ELEVATION: 3452'

SECTION: 23 TWP: 24 S RGE: 34 E SURVEY: N.M.P.M.
COUNTY: LEA STATE: NM

DESCRIPTION: CENTER OF PAD IS 1052' FSL & 2099' FEL

eog resources

JOB No.: EOG_B200054

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE FOLLOWING COORDINATE SYSTEM: NAD83 NEW MEXICO STATE PLANE, EAST ZONE, U.S. SURVEY FEET.

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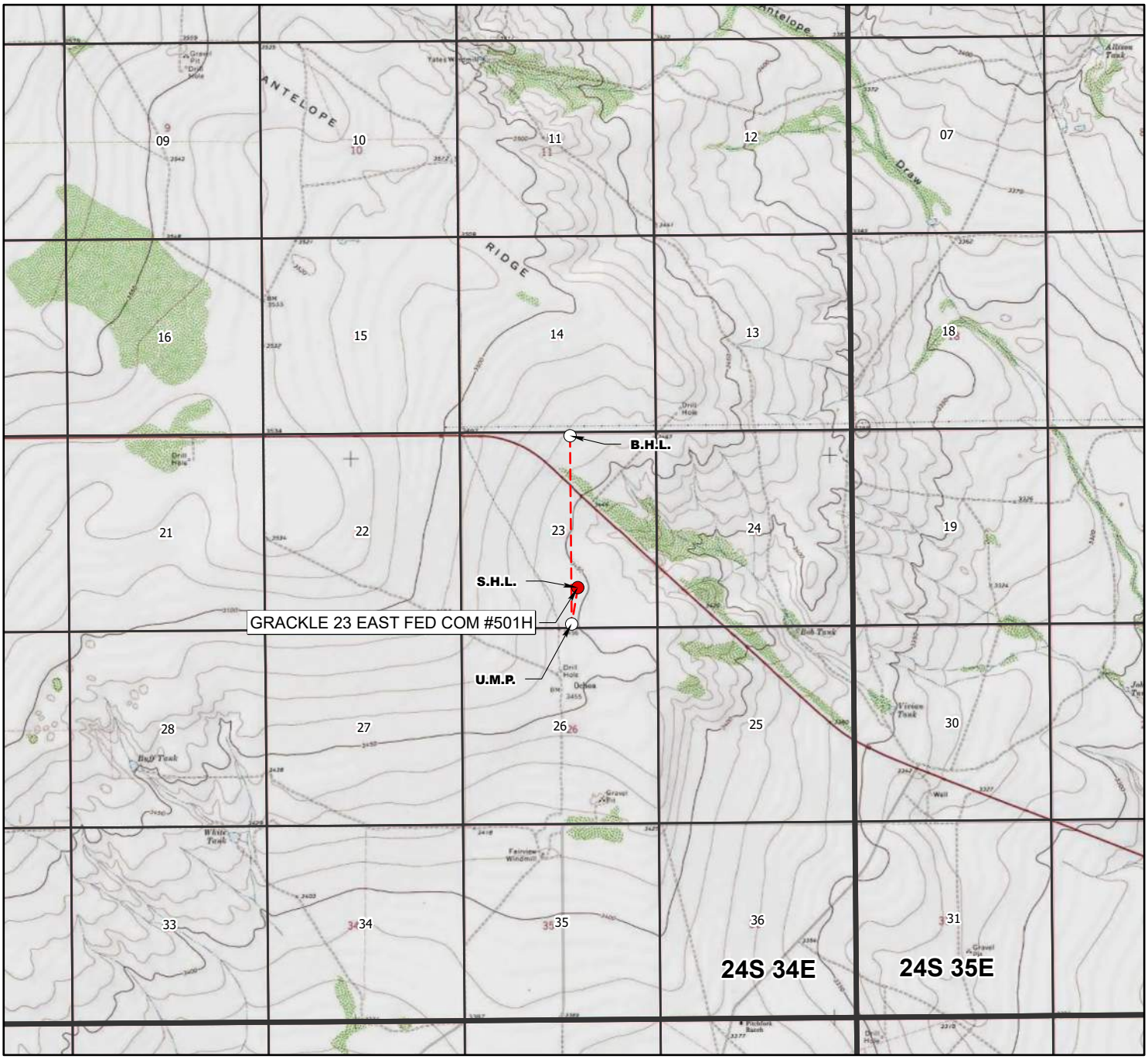
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0 75 150
SCALE: 1"= 150'

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MIDLAND, TEXAS 79703
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EXHIBIT 1
LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: GRACKLE 23 EAST FED COM #501H
LATITUDE: N 32.19875 LONG: W 103.43911 ELEVATION: 3452'

SECTION: 23 TWP: 24S RGE: 34E SURVEY: N.M.P.M.
COUNTY: LEA STATE: NM

DESCRIPTION: 1082' FSL & 2136' FEL

S.H.L.
L.M.P.; B.H.L.; U.M.P.
Bore Line
Section
Township

eog resources

JOB No.: EOG_B200054

NOTE:
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N

0 2,000 4,000

SCALE: 1"=4,000'

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Surface Use Plan of Operations

Introduction

The following surface use plan of operations will be followed and carried out once the APD is approved. No other disturbance will be created other than what was submitted in this surface use plan. If any other surface disturbance is needed after the APD is approved, a BLM approved sundry notice or right of way application will be acquired prior to any new surface disturbance.

Before any surface disturbance is created, stakes or flagging will be installed to mark boundaries of permitted areas of disturbance, including soils storage areas. As necessary, slope, grade, and other construction control stakes will be placed to ensure construction in accordance with the surface use plan. All boundary markers will be maintained in place until final construction cleanup is completed. If disturbance boundary markers are disturbed or knocked down, they will be replaced before construction proceeds.

If terms and conditions are attached to the approved APD and amend any of the proposed actions in this surface use plan, we will adhere to the terms and conditions.

1. Existing Roads

a. The existing access road route to the proposed project is depicted on GRACKLE 23 EAST FED COM 501H VICINITY. Improvements to the driving surface will be done where necessary. No new surface disturbance will be done, unless otherwise noted in the New or Reconstructed Access Roads section of this surface use plan..

b. The existing access road route to the proposed project does not cross lease or unit boundaries, so a BLM right-of-way grant will not be acquired for this proposed road route.

c. The operator will improve or maintain existing roads in a condition the same as or better than before operations begin. The operator will repair pot holes, clear ditches, repair the crown, etc. All existing structures on the entire access route such as cattleguards, other range improvement projects, culverts, etc. will be properly repaired or replaced if they are damaged or have deteriorated beyond practical use.

d. We will prevent and abate fugitive dust as needed, whether created by vehicular traffic, equipment operations, or wind events. BLM written approval will be acquired before application of surfactants, binding agents, or other dust suppression chemicals on roadways.

2. New or Reconstructed Access Roads

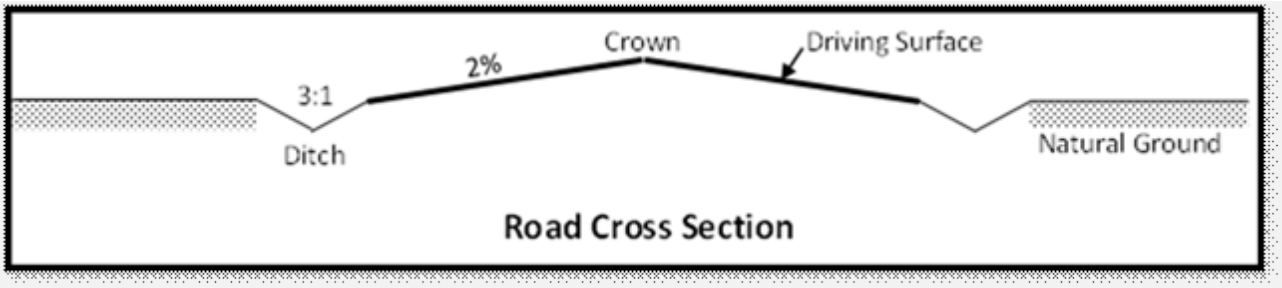
a. An access road will be needed for this proposed project. See the survey plat for the location of the access road.

b. The length of access road needed to be constructed for this proposed project is about 425 feet.

c. The maximum driving width of the access road will be 30 feet. The maximum width of surface disturbance when constructing the access road will not exceed 25 feet. All areas outside of the driving surface will be revegetated.

d. The access road will be constructed with 6 inches of compacted CALICHE.

e. When the road travels on fairly level ground, the road will be crowned and ditched with a 2% slope from the tip of the road crown to the edge of the driving surface. The ditches will be 3 feet wide with 3:1 slopes. See Road Cross Section diagram below.



f. The access road will be constructed with a ditch on each side of the road.

g. The maximum grade for the access road will be 20 percent.

h. No turnouts will be constructed on the proposed access road.

i. An appropriately sized cattleguard sufficient to carry out the project will be installed and maintained at the fence crossing(s). Prior to cutting the fence, the fence will be braced and tied off on both sides of the passageway with H braces to protect the integrity of the fence line. See the survey plat for the location of the proposed cattle guard.

j. No BLM right-of-way grant is needed for the construction of this access road.

k. An appropriately sized culvert will be installed where drainages cross the access road. The culvert(s) will be no less than 18 inches in diameter and covered with no less than 12 inches of surfacing material. Each culvert will be marked with reflectors attached to T-Posts on both sides of the road. The uphill and downhill opening of the culvert will have rip-rap (cobble stone) extending 3 feet out and 12 inches deep to slow water flow entering and exiting the culvert. Standards in the BLM Gold Book will be used. The culvert will be maintained in its original condition throughout the life of the road. See survey plat for location of culvert(s).

l. No low water crossings will be constructed for the access road.

m. Since the access road is on level ground, no lead-off ditches will be constructed for the proposed access road.

n. Newly constructed or reconstructed roads, on surface under the jurisdiction of the Bureau of Land Management, will be constructed as outlined in the BLM “Gold Book” and to meet the standards of the anticipated traffic flow and all anticipated weather requirements as needed. Construction will include ditching, draining, crowning and capping or sloping and dipping the roadbed as necessary to provide a well-constructed and safe road.

3. Location of Existing Wells

a. GRACKLE 23 EAST FED COM 501H RADIUS of the APD depicts all known wells within a one mile radius of the proposed well.

b. There is no other information regarding wells within a one mile radius.

4. Location of Existing and/or Proposed Production Facilities

a. All permanent, lasting more than 6 months, above ground structures including but not limited to pumpjacks, storage tanks, barrels, pipeline risers, meter housing, etc. that are not subject to safety requirements will be painted a non-reflective paint color, Shale Green, from the BLM Standard Environmental Colors chart, unless another color is required in the APD Conditions of Approval.

b. If any type of production facilities are located on the well pad, they will be strategically placed to allow for maximum interim reclamation, recontouring, and revegetation of the well location.

c. A production facility is proposed to be installed off the proposed well location. Production from the well will

be processed at this production facility. GRACKLE 23 EAST FED COM CTB depicts the location of the production facilities.

d. The proposed production facility will have a secondary containment structure that is constructed to hold the capacity of 1-1/2 times the largest tank, plus freeboard to account for percipitation, unless more stringent protective requirements are deemed necessary.

e. GRACKLE 23 EAST FED COM INFRASTRUCTURE depicts the production facility as well.

f. A pipeline to transport production from the proposed well to the production facility will be installed.

i. We plan to install a 6 inch buried FLEX STEEL pipeline from the proposed well to the offsite production facility. The proposed length of the pipeline will be 2389 feet. The working pressure of the pipeline will be about 1140 psi. A 30 feet wide work area will be needed to install the buried pipeline. In areas where blading is allowed, topsoil will be stockpiled and separated from the excavated trench mineral material. Final reclamation procedures will match the procedures in Plans for Surface Reclamation. When the excavated soil is backfilled, it will be compacted to prevent subsidence. No berm over the pipeline will be evident.

ii. GRACKLE 23 EAST FED COM INFRASTRUCTURE depicts the proposed production pipeline route from the well to the existing production facility.

iii. Since the proposed pipeline crossess lease boundaries, a right of way grant will be acquired prior to installation of the proposed pipeline.

If any plans change regarding the production facility or other infrastructure (pipeline, electric line, etc.), we will submit a sundry notice or right of way (if applicable) prior to installation or construction.

Electric Line(s)

a. We plan to install an overhead electric line for the proposed well. The proposed length of the electric line will be 10544 feet. GRACKLE 23 EAST FED COM INFRASTRUCTURE depicts the location of the proposed electric line route. The electric line will be construction to provide protection from raptor electrocution.

b. Since the proposed electric line crossess lease boundaries, a right of way grant will be acquired prior to installation of the proposed electric line.

5. Location and Types of Water

a. The source and location of the water supply are as follows: Water will be supplied from the frac pond as shown on the attached water source map Temporary surface lines may be approved through an APD (whether they are on or off lease) or Sundry Notice if they are entirely within a lease or unit Lines approved under an APD or Sundry Notice are not required to request additional authorization outlined in the Temporary Surface Lines for Transporting Water for Drilling & Completions Operations policy but should adhere to notification of installation and removal requirements
EOG plans to utilize up to six 4 inch polyethylene and or layflat lines for the purpose of transporting freshwater Freshwater is defined as containing less than 10_000 mg_I Total Dissolved Solids (TDS)_ exhibiting no petroleum sheen when standing_ and not previously used in mechanical processes that expose it to heavy metals or other potential toxins
EOG plans to utilize up to six 12 inch layflat lines for the purpose of transporting treated produced water being defined as the reconditioning of produced water to a reusable form and may include mechanical and chemical processes
Freshwater Sources:

1EOG Resources_ Inc_ McCloy Frac Pond located in Section 30_ Township 24 S_ Range 33 E_ Lea County_ New Mexico

Treated Produced Water Sources:
1EOG Resources_ Inc_ Klondike Reuse Pit located in Section 32_ Township 24 S_ Range 33 E_ Lea County_ New Mexico

Temporary surface lines would originate from a single water source location or multiple water source locations in the surrounding area of the proposed action and be temporarily laid above ground with minimal disturbance
Temporary surface line(s) shall be laid no more than 10 feet from the edge of the existing disturbance (ie_ edge of bar_borrow ditch_ road surface or two track road or other man made addition to the landscape) A push off arm or other mechanism will be used All vehicle equipment will remain within the existing disturbance
Temporary surface line(s) must be labeled to identify operator of the lines(s) The label should include_ at a minimum_ the name of company and an applicable phone number_ line content (fresh water or treated produced water) The labels should be placed at beginning_ ending and every mile in between
Operator will conduct regular monitoring of all temporary surface water lines while in service_ to ensure integrity and adequately detect leaks or other impacts in a timely manner Operators shall communicate any issues to the BLM
Map or maps showing the locations of the temporary surface lines will be provided with the APD and will be included in the Environmental Assessment Electronic map file (shape file or KMZ file) shall be submitted with the Environmental Assessment.

b. GRACKLE 23 EAST FED COM WATER AND CALICHE MAP depicts the proposed route for a 12 inch ABOVE GROUND LAY-FLAT AND POLY LINES (SEE ABOVE DESCRIPTION) temporary (<90 days) water pipeline supplying water for drilling operations.

6. Construction Material

a. Caliche will be supplied from pits shown on the attached caliche source map.
Caliche utilized for the drilling pad will be obtained either from an existing approved mineral pit, or by benching into a hill, which will allow the pad to be level with existing caliche from the cut, or extracted by “Flipping” the well location. A mineral material permit will be obtained from BLM prior to excavating any caliche on Federal Lands. Amount will vary for each pad. The procedure for “Flipping” a well location is as follows:
*□
-An adequate amount of topsoil/root zone (usually top 6 inches of soil) will be stripped from the proposed well location and stockpiled along the side of the well location as depicted on the well site diagram/survey plat.
-An area will be used within the proposed well site dimensions to excavate caliche.
Subsoil will be removed and stockpiled within the surveyed well pad dimensions.
-Once caliche/surfacing mineral is found, the mineral material will be excavated and stock piled within the approved drilling pad dimensions.
-Then, subsoil will be pushed back in the excavated hole and caliche will be spread accordingly across the entire well pad and road (if available).
-Neither caliche, nor subsoil will be stock piled outside of the well pad dimensions. Topsoil will be stockpiled along the edge of the pad as depicted in the Well Site Layout or survey plat.
*□
In the event that no caliche is found onsite, caliche will be hauled in from a BLM approved caliche pit or other established mineral pit. A BLM mineral material permit will be acquired prior to obtaining any mineral material from BLM pits or federal land.

7. Methods for Handling Waste SEE SEC 7 ATTACHMENT ON PAGE 9

a. Drilling fluids and produced oil and water from the well during drilling and completion operations will be stored safely and disposed of properly in an NMOCD approved disposal facility.

b. Garbage and trash produced during drilling and completion operations will be collected in a trash container and disposed of properly at a state approved disposal facility. All trash on and around the well site will be collected for disposal.

c. Human waste and grey water will be properly contained and disposed of properly at a state approved disposal facility.

d. After drilling and completion operations, trash, chemicals, salts, frac sand and other waste material will be removed and disposed of properly at a state approved disposal facility.

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

8. Ancillary Facilities

a. No ancillary facilities will be needed for this proposed project.

9. Well Site Layout

a. The following information is presented in the well site survey plat or diagram:

i. reasonable scale (near 1":50')

ii. well pad dimensions

iii. well pad orientation

iv. drilling rig components

v. proposed access road

vi. elevations of all points

vii. topsoil stockpile

viii. reserve pit location/dimensions if applicable

ix. other disturbances needed (flare pit, stinger, frac farm pad, etc.)

x. existing structures within the 600' x 600' archaeoligical surveyed area (pipelines, electric lines, well pads, etc

b. The proposed drilling pad was staked and surveyed by a professional surveyor. The attached survey plat of the well site depicts the drilling pad layout as staked.

c. A title of a well site diagram is GRACKLE 23 EAST FED COM 501H RIG LAYOUT. This diagram depicts the RIG LAYOUT.

d. Topsoil Salvaging

i. Grass, forbs, and small woody vegetation, such as mesquite will be excavated as the topsoil is removed. Large woody vegetation will be stripped and stored separately and respread evenly on the site following topsoil respreading. Topsoil depth is defined as the top layer of soil that contains 80% of the roots. In areas to be heavily disturbed, the top 6 inches of soil material, will be stripped and stockpiled on the perimeter of the well location and along the perimeter of the access road to control run-on and run-off, to keep topsoil viable, and to make redistribution of topsoil more efficient during interim reclamation. Stockpiled topsoil should include vegetative material. Topsoil will be clearly segregated and stored separately from subsoils.

Contaminated soil will not be stockpiled, but properly treated and handled prior to topsoil salvaging.

10. Plans for Surface Reclamation

Reclamation Objectives

i. The objective of interim reclamation is to restore vegetative cover and a portion of the landform sufficient to maintain healthy, biologically active topsoil; control erosion; and minimize habitat and forage loss, visual impact, and weed infestation, during the life of the well or facilities.

ii. The long-term objective of final reclamation is to return the land to a condition similar to what existed prior to disturbance. This includes restoration of the landform and natural vegetative community, hydrologic systems, visual resources, and wildlife habitats. To ensure that the long-term objective will be reached through human and natural processes, actions will be taken to ensure standards are met for site stability, visual quality, hydrological functioning, and vegetative productivity.

iii. The BLM will be notified at least 3 days prior to commencement of any reclamation procedures.

iv. If circumstances allow, interim reclamation and/or final reclamation actions will be completed no later than 6 months from when the final well on the location has been completed or plugged. We will gain written permission from the BLM if more time is needed.

v. Interim reclamation will be performed on the well site after the well is drilled and completed. GRACKLE 23 EAST FED COM 501H RECLAMATION depicts the location and dimensions of the planned interim reclamation for the well site.

Interim Reclamation Procedures (If performed)

1. Within 30 days of well completion, the well location and surrounding areas will be cleared of, and maintained free of, all materials, trash, and equipment not required for production.

2. In areas planned for interim reclamation, all the surfacing material will be removed and returned to the original mineral pit or recycled to repair or build roads and well pads.

3. The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.

4. Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations including cuts & fills. To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

5. Proper erosion control methods will be used on the area to control erosion, runoff and siltation of the surrounding area.

6. The interim reclamation will be monitored periodically to ensure that vegetation has reestablished and that erosion is controlled.

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

1. Prior to final reclamation procedures, the well pad, road, and surrounding area will be cleared of material, trash, and equipment.

2. All surfacing material will be removed and returned to the original mineral pit or recycled to repair or build roads and well pads.

3. All disturbed areas, including roads, pipelines, pads, production facilities, and interim reclaimed areas will be recontoured to the contour existing prior to initial construction or a contour that blends indistinguishably with the surrounding landscape. Topsoil that was spread over the interim reclamation areas will be stockpiled prior to recontouring. The topsoil will be redistributed evenly over the entire disturbed site to ensure successful revegetation.

4. After all the disturbed areas have been properly prepared, the areas will be seeded with the proper BLM seed mixture, free of noxious weeds. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

5. Proper erosion control methods will be used on the entire area to control erosion, runoff and siltation of the surrounding area.

6. All unused equipment and structures including pipelines, electric line poles, tanks, etc. that serviced the well will be removed.

7. All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, and that erosion is controlled.

11. Surface Ownership

a. The surface ownership of the proposed project is FEDERAL.

12. Other Information

a. An onsite meeting was conducted on 12/18/20 and field 1/8/2021
Surface flow lines will follow existing or proposed, well-traveled roads.

An onsite meeting was conducted on 5/11/21
We plan to use 6, 12-inch lay flat hoses to transport water with an option to use 6, 4-inch poly lines for drilling and frac operations.
We are asking for 2 associated pipelines all depicted on the attached GRACKEL 23 EAST FED COM 501H sketch and associated pipeline plats:
One 6-inch flex steel gas lift line servicing all wells on lease
One 6-inch flex steel production flowline per well
The well is planned to be produced using gas lift as the artificial lift method.
Produced water will be transported via pipeline to the EOG produced water gathering system.

*Cut/Fill Diagrams attached

13. Maps and Diagrams

GRACKLE 23 EAST FED COM 501H VICINITY - Existing Road
GRACKLE 23 EAST FED COM 501H RADIUS - Wells Within One Mile
GRACKLE 23 EAST FED COM CTB - Production Facilities Diagram
GRACKLE 23 EAST FED COM INFRASTRUCTURE - Additional Production Facilities Diagram

GRACKLE 23 EAST FED COM INFRASTRUCTURE - Production Pipeline
GRACKLE 23 EAST FED COM INFRASTRUCTURE - Electric Line
GRACKLE 23 EAST FED COM WATER AND CALICHE MAP - Drilling Water Pipeline
GRACKLE 23 EAST FED COM 501H RIG LAYOUT - Well Site Diagram
GRACKLE 23 EAST FED COM 501H RECLAMATION - Interim Reclamation

EOG Resources, Inc.

Surface Use Plan of Operations Section 7 Methods for Handling Waste Attachment

Human waste managed by third-party vendors. ROW construction waste contained in on-site portable toilets maintained by third party vendor. During drilling activities waste is managed by third party vendor utilizing onsite aerobic (treatment) wastewater management. Liquids treated through the aerobic system are transferred to via water line to CTBs for reuse by EOG. All solid waste remaining after treatment process are pumped into an enclosed waste transfer truck at the time of rig down and taken to one of the following disposal facilities by the third-party vendor: Qual Run Services LLC (a Licensed Waste Management Service Facility in Reeves County, Texas) or ReUse OilField Services (a Licensed Waste Management Facility in Mentone, TX)

Trash dumpsters are utilized to contain garbage onsite. Dumpsters are maintained by a third-party vendor. All trash is hauled to Lee County, NM landfill.

EOG utilizes a Closed Loop System, cuttings leave the rig and enter low/highwall cuttings bin. Cuttings are then transferred to trucks for transportation to a State of New Mexico approved disposal facility. Primary disposal location for EOG's NM operations is the North Delaware Basin Disposal Facility in Jal, New Mexico which is a privately owned commercial facility. Some EOG locations within New Mexico may require transportation of cuttings to other licensed commercial disposal facilities based on geographic location.

Drilling fluids and produced oil and water from the well during drilling and completion operations will be stored onsite in frac tanks and disposed of at the time of rig down. Primary disposal location for EOG's NM operations is the North Delaware Basin Disposal facility in Jal, New Mexico which is a privately owned commercial facility. Some EOG locations within New Mexico may require transportation of cuttings to other licensed commercial disposal facilities based on geographic location.

AFMSS

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

PWD Data Report

03/23/2026

APD ID: 10400079840 **Submission Date:** 08/30/2021

Operator Name: EOG RESOURCES INCORPORATED

Well Name: GRACKLE 23 EAST FED COM **Well Number:** 501H

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

Section 1 - General

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

Section 2 - Lined

Would you like to utilize Lined Pit PWD options? N

Produced Water Disposal (PWD) Location:

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

Other PWD Surface Owner Description:

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit

Pit liner description:

Pit liner manufacturers

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule

Lined pit reclamation description:

Lined pit reclamation

Leak detection system description:

Leak detection system

Operator Name: EOG RESOURCES INCORPORATED

Well Name: GRACKLE 23 EAST FED COM **Well Number:** 501H

Lined pit Monitor description:

Lined pit Monitor

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information

Section 3 - Unlined

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

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

Other PWD Surface Owner Description:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule

Unlined pit reclamation description:

Unlined pit reclamation

Unlined pit Monitor description:

Unlined pit Monitor

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

Beneficial use user

Estimated depth of the shallowest aquifer (feet):

Precipitated Solids Permit

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

TDS lab results:

Geologic and hydrologic

Operator Name: EOG RESOURCES INCORPORATED

Well Name: GRACKLE 23 EAST FED COM **Well Number:** 501H

State

Unlined Produced Water Pit Estimated

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

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information

Section 4 -

Would you like to utilize Injection PWD options? N

Produced Water Disposal (PWD) Location:

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

Other PWD Surface Owner Description:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

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

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

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection

Underground Injection Control (UIC) Permit?

UIC Permit

Section 5 - Surface

Would you like to utilize Surface Discharge PWD options? N

Produced Water Disposal (PWD) Location:

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

Other PWD Surface Owner Description :

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Operator Name: EOG RESOURCES INCORPORATED

Well Name: GRACKLE 23 EAST FED COM **Well Number:** 501H

Section 6 -

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

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

PWD Surface Owner Description:

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements

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

Bond Info Data
03/23/2026

APD ID: 10400079840
Submission Date: 08/30/2021
Operator Name: EOG RESOURCES INCORPORATED
Well Name: GRACKLE 23 EAST FED COM
Well Number: 501H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes
Show Final Text

Bond

Federal/Indian APD: FED

BLM Bond number: NM2308

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

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

General Information
Phone: (505) 629-6116

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

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

ACKNOWLEDGMENTS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 566508
	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
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

COMMENTS

Action 566508

COMMENTS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 566508
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

COMMENTS

Created By	Comment	Comment Date
jeffrey.harrison	Submitted as defining well.	4/16/2026

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

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	7377
	Action Number: 566508
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
kagee	Cement is required to circulate on both surface and intermediate1 strings of casing.	3/25/2026
jeffrey.harrison	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.	4/16/2026
jeffrey.harrison	All logs run on the well must be submitted to NMOCD.	4/16/2026
jeffrey.harrison	NSP required prior to production if not included in an existing order or not an infill to an appropriate defining well in the same pool and spacing unit.	4/16/2026
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.	4/16/2026
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.	4/16/2026
jeffrey.harrison	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.	4/16/2026
jeffrey.harrison	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.	4/16/2026