



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

*Application for Permit to Drill*

**APD Package Report**

Date Printed: 01/08/2025 02:20 PM

APD ID: 10400062665

Well Status: AAPD

APD Received Date: 10/02/2020 07:56 AM

Well Name: PRETTY GOOD 20 FED COM

Operator: EOG RESOURCES INCORPORATED Well Number: 801H

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: 3 file(s)
  - Blowout Prevention BOP Diagram Attachment: 2 file(s)
  - Casing Design Assumptions and Worksheet(s): 9 file(s)
  - Hydrogen sulfide drilling operations plan: 1 file(s)
  - Proposed horizontal/directional/multi-lateral plan submission: 2 file(s)
  - Other Facets: 6 file(s)
  - Other Variances: 4 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: 4 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  
(June 2015)FORM APPROVED  
OMB No. 1004-0137  
Expires: January 31, 2018

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
**APPLICATION FOR PERMIT TO DRILL OR REENTER**

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		5. Lease Serial No. <b>NMNM078968A</b> 6. If Indian, Allottee or Tribe Name  7. If Unit or CA Agreement, Name and No.  8. Lease Name and Well No. <b>PRETTY GOOD 20 FED COM</b>  801H 9. API Well No. <b>30-025-55258</b>
2. Name of Operator <b>EOG RESOURCES INCORPORATED</b> 3a. Address <b>1111 BAGBY SKY LOBBY 2, HOUSTON, TX 77002</b> 3b. Phone No. (include area code) <b>(713) 651-7000</b>		10. Field and Pool, or Exploratory <del>WC-015-G-02-S252715A-WC-025-G-10-S</del> <del>WC-025-S223208A-LWR WOLF CAMP (GAS)</del> 11. Sec., T. R. M. or Blk. and Survey or Area <b>SEC 20/T22S/R32E/NMP</b>
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface <b>NWNE / 473 FNL / 2061 FEL / LAT 32.383062 / LONG -103.694896</b> At proposed prod. zone <b>SESE / 100 FSL / 660 FEL / LAT 32.355608 / LONG -103.690337</b>		12. County or Parish <b>LEA</b> 13. State <b>NM</b>
14. Distance in miles and direction from nearest town or post office*  15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>100 feet</b>	16. No of acres in lease  17. Spacing Unit dedicated to this well <b>640.0</b>	18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>15 feet</b>
19. Proposed Depth <b>12535 feet / 22848 feet</b>	20. BLM/BIA Bond No. in file <b>FED:</b> 21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>3654 feet</b> 22. Approximate date work will start* <b>04/10/2021</b> 23. Estimated duration <b>25 days</b>	
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.<br>2. A Drilling Plan.<br>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).<br>5. Operator certification.<br>6. Such other site specific information and/or plans as may be requested by the BLM. |
|---|---|

25. Signature (Electronic Submission)  Title <b>Regulatory Specialist</b>	Name (Printed/Typed) <b>JAYNA HOBBY / Ph: (713) 651-7000</b>	Date <b>10/02/2020</b>
Approved by (Signature) (Electronic Submission)  Title <b>Assistant Field Manager Lands &amp; Minerals</b>	Name (Printed/Typed) <b>CODY LAYTON / Ph: (575) 234-5959</b>  Office <b>Carlsbad Field Office</b>	Date <b>09/06/2024</b>

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.

(Continued on page 2)

\*(Instructions on page 2)



## 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 well, 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 directionally 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 well 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 will 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 connects this information to an 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 Connection 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: NWNE / 473 FNL / 2061 FEL / TWSP: 22S / RANGE: 32E / SECTION: 20 / LAT: 32.383062 / LONG: -103.694896 ( TVD: 0 feet, MD: 0 feet )

PPP: NENE / 100 FNL / 660 FEL / TWSP: 22S / RANGE: 32E / SECTION: 20 / LAT: 32.384105 / LONG: -103.690361 ( TVD: 12270 feet, MD: 12379 feet )

BHL: SESE / 100 FSL / 660 FEL / TWSP: 22S / RANGE: 32E / SECTION: 29 / LAT: 32.355608 / LONG: -103.690337 ( TVD: 12535 feet, MD: 22848 feet )

### BLM Point of Contact

Name: GAVIN MICKWEE

Title: Land Law Examiner

Phone: (575) 234-5972

Email: GMICKWEE@BLM.GOV

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### **Review and Appeal Rights**

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

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# PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

**Environmental Assessment DOI-BLM-NM-P020-2020-1348-EA**

**Pretty Good 20 Fed Com**

**Lease Numbers      NMNM 0078968A**

**NMNM 0078968C**

**NMNM 096856**

**NMNM 000090**

**Well Pads, Central Tank Battery, Access Roads,  
And Buried Flowlines/Gas Lift Lines  
EOG Resources Inc.**

The legal lands descriptions are located in Lea County, New Mexico (Table 1). The following surface hole locations are located in Township 22S, Range 32E, Section 20; bottom hole locations are located in Township 22S, Range 32E, Section 29.

**Table 1: Legal Lands Descriptions**

Well Name	Surface Hole Legal Location*	Bottom Hole Legal Location*
<b>Well Pad A – Center of Pad: 1,124' FNL and 1,493' FEL</b>		
Pretty Good 20 Fed Com #201H	1,036' FNL and 1,547' FEL	100' FSL and 330' FEL
Pretty Good 20 Fed Com #202H	1,007' FNL and 1,544' FEL	100' FSL and 990' FEL
Pretty Good 20 Fed Com #301H	1,021' FNL and 1,545' FEL	100' FSL and 660' FEL
Pretty Good 20 Fed Com #401H	1,116' FNL and 1,493' FEL	100' FSL and 990' FEL
Pretty Good 20 Fed Com #501H	1,146' FNL and 1,495' FEL	100' FSL and 330' FEL
Pretty Good 20 Fed Com #502H	1,101' FNL and 1,491' FEL	100' FSL and 990' FEL
Pretty Good 20 Fed Com #581H	1,131' FNL and 1,494' FEL	100' FSL and 660' FEL
Pretty Good 20 Fed Com #601H	1,241' FNL and 1,442' FEL	100' FSL and 580' FEL
Pretty Good 20 Fed Com #701H	1,256' FNL and 1,443' FEL	100' FSL and 330' FEL
Pretty Good 20 Fed Com #702H	1,226' FNL and 1,441' FEL	100' FSL and 830' FEL
<b>Well Pad B – Center of Pad: 504' FNL and 2,216' FEL</b>		
Pretty Good 20 Fed Com #203H	406' FNL and 2,143' FEL	100' FSL and 1,650' FEL
Pretty Good 20 Fed Com #204H	409' FNL and 2,173' FEL	100' FSL and 2,310' FEL
Pretty Good 20 Fed Com #302H	407' FNL and 2,158' FEL	100' FSL and 1,980' FEL
Pretty Good 20 Fed Com #402H	478' FNL and 2,256' FEL	100' FSL and 2,310' FEL
Pretty Good 20 Fed Com #503H	475' FNL and 2,226' FEL	100' FSL and 1,650' FEL
Pretty Good 20 Fed Com #504H	479' FNL and 2,271' FEL	100' FSL and 2,310' FEL
Pretty Good 20 Fed Com #582H	476' FNL and 2,241' FEL	100' FSL and 1,980' FEL
Pretty Good 20 Fed Com #602H	546' FNL and 2,339' FEL	100' FSL and 1,580' FEL
Pretty Good 20 Fed Com #703H	545' FNL and 2,325' FEL	100' FSL and 1,331' FEL
Pretty Good 20 Fed Com #704H	548' FNL and 2,354' FEL	100' FSL and 1,830' FEL
Pretty Good 20 Fed Com #705H	549' FNL and 2,369' FEL	100' FSL and 2,330' FEL

Pretty Good 20 Fed Com #801H	473' FNL and 2,061' FEL	100' FSL and 660' FEL
Pretty Good 20 Fed Com #802H	458' FNL and 2,062' FEL	100' FSL and 1,980' FEL
Pretty Good 20 Fed Com #1201H	488' FNL and 2,059' FEL	100' FSL and 330' FEL
<b>Well Pad C – Center of Pad: 388' FNL and 2,315' FWL</b>		
Pretty Good 20 Fed Com #205H	470' FNL and 2,375' FWL	100' FSL and 2,310' FWL
Pretty Good 20 Fed Com #206H	500' FNL and 2,375' FWL	100' FSL and 1,650' FWL
Pretty Good 20 Fed Com #303H	485' FNL and 2,375' FWL	100' FSL and 1,980' FWL
Pretty Good 20 Fed Com #403H	380' FNL and 2,315' FWL	100' FSL and 2,310' FWL
Pretty Good 20 Fed Com #505H	365' FNL and 2,315' FWL	100' FSL and 2,310' FWL
Pretty Good 20 Fed Com #506H	410' FNL and 2,315' FWL	100' FSL and 1,650' FWL
Pretty Good 20 Fed Com #583H	395' FNL and 2,315' FWL	100' FSL and 1,980' FWL
Pretty Good 20 Fed Com #603H	275' FNL and 2,255' FWL	100' FSL and 2,580' FEL
Pretty Good 20 Fed Com #604H	305' FNL and 2,255' FWL	100' FSL and 1,580' FWL
Pretty Good 20 Fed Com #706H	260' FNL and 2,255' FWL	100' FSL and 2,330' FWL
Pretty Good 20 Fed Com #707H	290' FNL and 2,255' FWL	100' FSL and 1,830' FWL
<b>Well Pad D – Center of Pad: 357' FNL and 1,715' FWL</b>		
Pretty Good 20 Fed Com #207H	410' FNL and 1,805' FWL	100' FSL and 990' FWL
Pretty Good 20 Fed Com #208H	440' FNL and 1,805' FWL	100' FSL and 331' FWL
Pretty Good 20 Fed Com #304H	425' FNL and 1,805' FWL	100' FSL and 660' FWL
Pretty Good 20 Fed Com #404H	320' FNL and 1,745' FWL	100' FSL and 990' FWL
Pretty Good 20 Fed Com #507H	305' FNL and 1,745' FWL	100' FSL and 990' FWL
Pretty Good 20 Fed Com #508H	350' FNL and 1,745' FWL	100' FSL and 331' FWL
Pretty Good 20 Fed Com #584H	335' FNL and 1,745' FWL	100' FSL and 660' FWL
Pretty Good 20 Fed Com #605H	230' FNL and 1,684' FWL	100' FSL and 580' FWL
Pretty Good 20 Fed Com #708H	200' FNL and 1,684' FWL	100' FSL and 1,334' FWL
Pretty Good 20 Fed Com #709H	215' FNL and 1,684' FWL	100' FSL and 830' FWL
Pretty Good 20 Fed Com #710H	245' FNL and 1,685' FWL	100' FSL and 331' FWL
Pretty Good 20 Fed Com #803H	515' FNL and 1,731' FWL	100' FSL and 1,980' FWL
Pretty Good 20 Fed Com #804H	515' FNL and 1,716' FWL	100' FSL and 660' FWL
Pretty Good 20 Fed Com #1202H	515' FNL and 1,746' FWL	100' FSL and 2,631' FEL
Pretty Good 20 Fed Com #1203H	515' FNL and 1,701' FWL	100' FSL and 331' FWL

\*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.

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- ☐ **Permit Expiration**
- ☐ **Archaeology, Paleontology, and Historical Sites**
- ☐ **Noxious Weeds**

- ☒ **Special Requirements**
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  - Ground-level Abandoned Well Marker
  - Hydrology

- ☐ **Construction**
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  - Closed Loop System
  - Federal Mineral Material Pits
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- ☐ **Road Section Diagram**

- ☒ **Production (Post Drilling)**
  - Well Structures & Facilities
  - Pipelines

- ☐ **Interim Reclamation**

- ☐ **Final Abandonment & Reclamation**

## **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 and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator 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 shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

## **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)

### **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, 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 feet from the source of the noise.

### **Timing Limitation Exceptions:**

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

**Ground-level Abandoned Well Marker to avoid raptor perching:** Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

### **Hydrology:**

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 top soil 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 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.

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.

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.

## **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 (24) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed thirty (30) 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 24' 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**

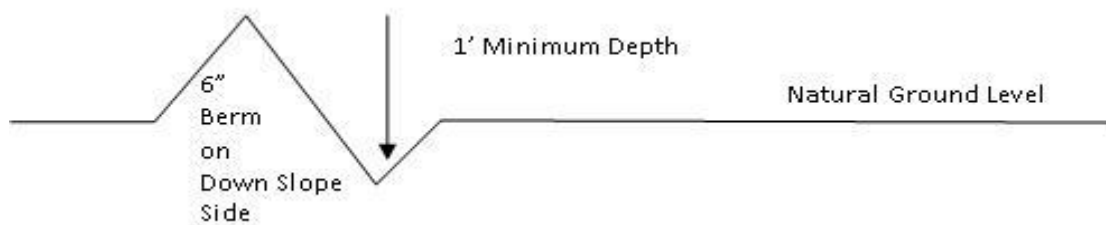
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

**Drainage**

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outloping 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:

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

### Cattle guards

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

### Fence Requirement

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

### Public Access

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

- Construction Steps
1. Salvage topsoil

2. Construct road

3. Redistribute topsoil

4. Revegetate slopes

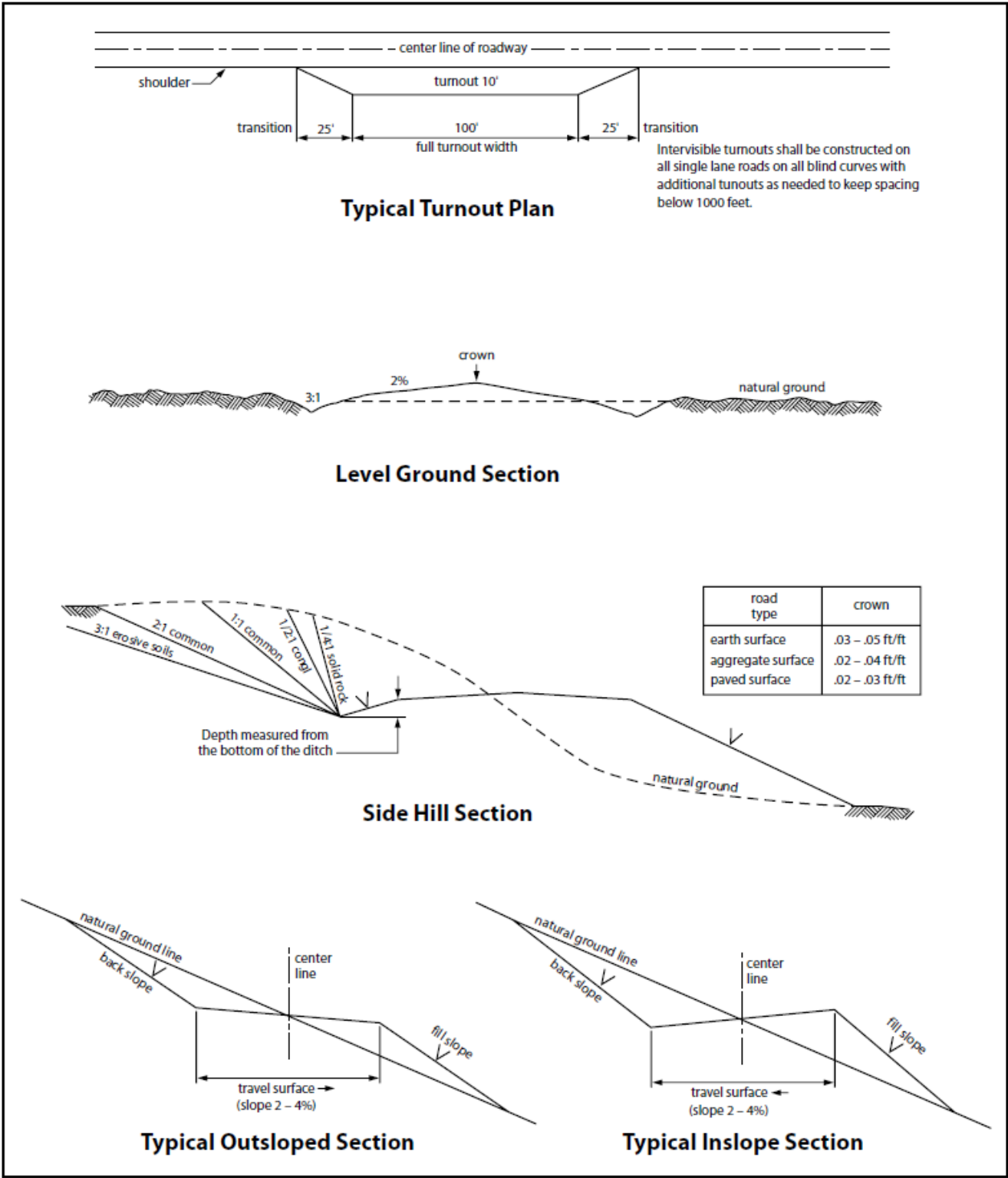


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.



## **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**

### **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 30 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.

- |  |  |
|--|--|
| <input type="checkbox"/> seed mixture 1                | <input type="checkbox"/> seed mixture 3          |
| <input type="checkbox"/> seed mixture 2                | <input type="checkbox"/> seed mixture 4          |
| <input checked="" type="checkbox"/> seed mixture 2/LPC | <input type="checkbox"/> 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 and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

17. 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.

18. 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 application (Grant, Sundry Notice, APD) 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 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 agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. The holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. The 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 the 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 the holder, regardless of fault. Upon failure of the 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 the holder of any responsibility as provided herein.

6. All construction and maintenance activity will be confined to the authorized right-of-way width of 20 feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline must 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 must be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity will be confined to existing roads or right-of-ways.

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

8. The 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 or dune areas, the pipeline will be "snaked" around hummocks and dunes rather than suspended across these features.

9. The pipeline shall be buried with a minimum of 24 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 and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the authorized officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the holder.

16. 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.

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

## **VIII. INTERIM RECLAMATION**

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

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

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

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

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

## **IX. FINAL ABANDONMENT & RECLAMATION**

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

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

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

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

## Seed Mixture for LPC Sand/Shinnery 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:

<u>Species</u>	<u>lb/acre</u>
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

\*Pounds of pure live seed:

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

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	EOG RESOURCES INCORPORATED
WELL NAME & NO.:	PRETTY GOOD 20 FED COM 801H
SURFACE HOLE FOOTAGE:	473'/N & 2061'/E
BOTTOM HOLE FOOTAGE:	100'/S & 660'/E
LOCATION:	Section 20, T.22 S., R.32 E., NMP
COUNTY:	Lea County, New Mexico

COA

H2S	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input checked="" type="radio"/> Low	<input type="radio"/> Medium	<input type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Wellhead Variance	<input type="radio"/> Diverter		
Other	<input type="checkbox"/> 4 String	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input type="checkbox"/> Fluid Filled	<input type="checkbox"/> Pilot Hole	<input type="checkbox"/> Open Annulus
Cementing	<input type="checkbox"/> Contingency Cement Squeeze	<input checked="" type="checkbox"/> EchoMeter	<input checked="" type="checkbox"/> Primary Cement Squeeze
Special Requirements	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit
Special Requirements	<input type="checkbox"/> Batch Sundry		
Special Requirements Variance	<input checked="" type="checkbox"/> Break Testing	<input type="checkbox"/> Offline Cementing	<input checked="" type="checkbox"/> 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 **9-5/8** inch surface casing shall be set at approximately **980 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 **12-1/4** inch in diameter.

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **7-5/8** 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.**

**Operator has proposed to pump down 9-5/8" X 7-5/8" annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus Or operator shall run a CBL from TD of the 7-5/8" casing to surface after the second stage BH to verify TOC.**

**Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must run one CBL per Well Pad.**

**If cement does not reach surface, the next casing string must come to surface.**

**Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.**

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 **9-5/8** 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.

**(Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system)  
BOPE Break Testing Variance**

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (**Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP**)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (**575-706-2779**) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-689-5981 Lea County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

**Casing Clearance:**

Operator casing variance is approved for the utilization of

- Annular clearance to meet or exceed 0.422'' between intermediate casing ID and production casing coupling only on the first 500' overlap between both casing strings.

-Annular clearance less than 0.422'' is acceptable for the production open hole section.

Operator shall clean up cycles until wellbore is clear of cuttings and any large debris, ensure cutting sizes are adequate "coffee ground or less" before cementing.

## 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](mailto: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
    - i. Notify the BLM when moving in and removing the Spudder Rig.
    - ii. Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2<sup>nd</sup> 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. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from

spacer and drilling mud. The results should be documented in the driller's log and daily reports.

#### **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 of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at

total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-Q 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 3172**.
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:
  - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - ii. 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.
  - iii. Manufacturer representative shall install the test plug for the initial BOP test.
  - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
  - v. 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.
  - i. 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).
  - ii. 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.)
  - iii. 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 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 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
  - iv. 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.
  - v. The results of the test shall be reported to the appropriate BLM office.

- vi. 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.
- vii. 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.
- viii. 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 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 8/21/2024



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

# Operator Certification Data Report

01/08/2025





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

## Application Data

01/08/2025

APD ID: 10400062665

Submission Date: 10/02/2020

Operator Name: EOG RESOURCES INCORPORATED

Well Name: PRETTY GOOD 20 FED COM

Well Number: 801H

Well Type: OIL WELL

Well Work Type: Drill

Highlighted data  
reflects the most  
recent changes  
[Show Final Text](#)

### Section 1 - General

APD ID: 10400062665

Tie to previous NOS?

Submission Date: 10/02/2020

BLM Office: Carlsbad

User: JAYNA K HOBBY

Title: Regulatory Specialist

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM078968A

Lease Acres:

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? N

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? YES

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: PRETTY GOOD 20 FED COM

Well Number: 801H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: WC-015 G-02  
S252715APool Name: WC-025 G-10  
S213328O;WOLFCAMP

**Operator Name:** EOG RESOURCES INCORPORATED**Well Name:** PRETTY GOOD 20 FED COM**Well Number:** 801H**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:**  
PRETTY GOOD 20 FED COM**Number:** 801H/802H/1201H**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:** 640 Acres**Well plat:** Pretty\_Good\_20\_Fed\_Com\_C102\_801H\_20201001085106.pdf**Well work start Date:** 04/10/2021**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	473	FNL	2061	FEL	22S	32E	20	Aliquot NWNE	32.383062	-103.694896	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 078968 A	3654	0	0	Y
KOP Leg #1	50	FNL	660	FEL	22S	32E	20	Aliquot NENE	32.3842413	-103.6903589	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 078968 A	-8404	12158	12058	Y
PPP Leg #1-1	100	FNL	660	FEL	22S	32E	20	Aliquot NENE	32.384105	-103.690361	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 078968 A	-8616	12379	12270	Y

**Operator Name:** EOG RESOURCES INCORPORATED**Well Name:** PRETTY GOOD 20 FED COM**Well Number:** 801H

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
EXIT Leg #1	100	FSL	660	FEL	22S	32E	29	Aliquot SESE	32.35560 8	- 103.6903 37	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 90	- 888 1	228 48	125 35	Y
BHL Leg #1	100	FSL	660	FEL	22S	32E	29	Aliquot SESE	32.35560 8	- 103.6903 37	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 90	- 888 1	228 48	125 35	Y

DISTRICT I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

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

Form C-102

Revised August 1, 2011

Submit one copy to appropriate  
District Office

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <b>30-025-</b>	Pool Code <b>98033</b>	Pool Name <b>WC-025 G-10 S213328O; WOLFCAMP</b>
Property Code	Property Name <b>PRETTY GOOD 20 FED COM</b>	Well Number <b>801H</b>
OGRID No. <b>7377</b>	Operator Name <b>EOG RESOURCES, INC.</b>	Elevation <b>3654'</b>

## Surface Location

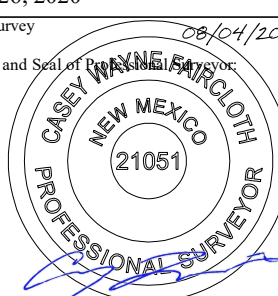
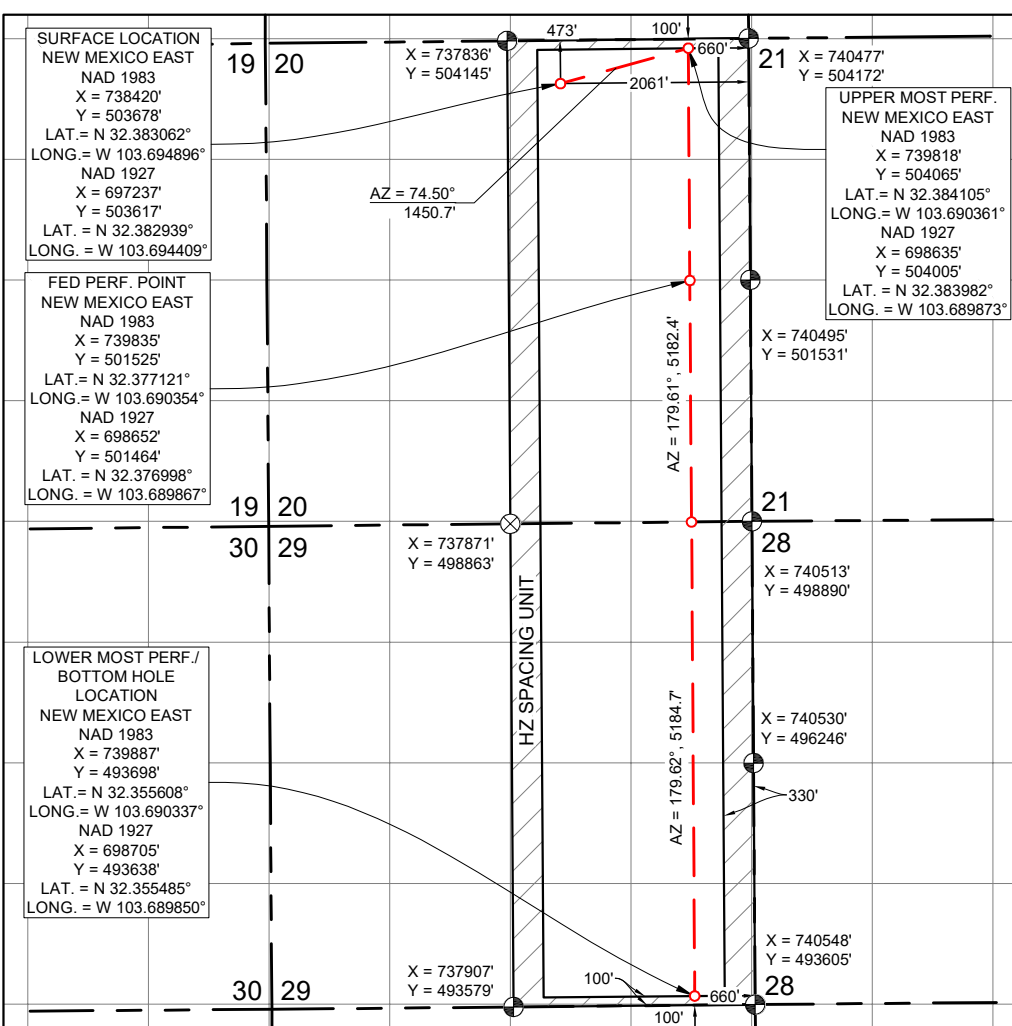
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>B</b>	<b>20</b>	<b>22 S</b>	<b>32 E</b>		<b>473</b>	<b>NORTH</b>	<b>2061</b>	<b>EAST</b>	<b>LEA</b>

## Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>P</b>	<b>29</b>	<b>22 S</b>	<b>32 E</b>		<b>100</b>	<b>SOUTH</b>	<b>660</b>	<b>EAST</b>	<b>LEA</b>

Dedicated Acres	Joint or Infill	Consolidated Code	Order No.
<b>640.00</b>			

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.

<p><b>SURFACE LOCATION</b> NEW MEXICO EAST NAD 1983 X = 738420' Y = 503678' LAT. = N 32.383062° LONG. = W 103.694896°</p> <p>NAD 1927 X = 697237' Y = 503617' LAT. = N 32.382939° LONG. = W 103.694409°</p> <p><b>FED PERF. POINT</b> NEW MEXICO EAST NAD 1983 X = 739835' Y = 501525' LAT. = N 32.377121° LONG. = W 103.690354°</p> <p>NAD 1927 X = 698652' Y = 501464' LAT. = N 32.376998° LONG. = W 103.689867°</p> <p><b>LOWER MOST PERF./</b> <b>BOTTOM HOLE</b> <b>LOCATION</b> NEW MEXICO EAST NAD 1983 X = 739887' Y = 493698' LAT. = N 32.355608° LONG. = W 103.690337°</p> <p>NAD 1927 X = 698705' Y = 493638' LAT. = N 32.355485° LONG. = W 103.689850°</p> <p><b>UPPER MOST PERF.</b> NEW MEXICO EAST NAD 1983 X = 739818' Y = 504065' LAT. = N 32.384105° LONG. = W 103.690361°</p> <p>NAD 1927 X = 698635' Y = 504005' LAT. = N 32.383982° LONG. = W 103.689873°</p> <p><b>OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Jayna K. Hobby</i> 9/28/20 Signature Date Jayna K. Hobby Print Name Jayna.Hobby@eogresources.com E-mail Address</p> <p><b>SURVEYORS CERTIFICATION</b> 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.</p> <p>JUNE 26, 2020 Date of Survey Signature and Seal of Professional Surveyor  Job No.: EOG B200016 CASEY WAYNE FAIRCLOTH, N.M.P.L.S. Certificate Number 21051</p>	 <p>The diagram shows a well location plat for the PRETTY GOOD 20 FED COM. It includes a grid of sections 19, 20, 21, 28, 29, and 30. The well is located in section 20, range 32 E, township 22 S. The diagram shows the surface location, the bottom hole location, and the upper most perfect location. It also shows the horizontal spacing unit and the vertical spacing unit. The well is located 473 feet from the north line and 2061 feet from the east line. The bottom hole is located 100 feet from the south line and 660 feet from the east line. The upper most perfect location is located 473 feet from the north line and 2061 feet from the east line. The diagram also shows the coordinates for each location and the bearings and distances between them.</p>
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U.S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

# Drilling Plan Data Report

01/08/2025

APD ID: 10400062665

Submission Date: 10/02/2020

Highlighted data  
reflects the most  
recent changes

Operator Name: EOG RESOURCES INCORPORATED

Well Name: PRETTY GOOD 20 FED COM

Well Number: 801H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

## Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14084375	PERMIAN	3654	0	0	ANHYDRITE	NONE	N
14084363	RUSTLER	2797	857	857	ANHYDRITE	NONE	N
14084364	TOP SALT	2391	1263	1263	SALT	NONE	N
14084365	BASE OF SALT	-750	4404	4404	SALT	NONE	N
14084366	LAMAR	-1095	4749	4749	LIMESTONE	NONE	N
14084367	BELL CANYON	-1131	4785	4785	SANDSTONE	NATURAL GAS, OIL	N
14084368	CHERRY CANYON	-1975	5629	5629	SANDSTONE	NATURAL GAS, OIL	N
14084369	BRUSHY CANYON	-3248	6902	6902	SANDSTONE	NATURAL GAS, OIL	N
14084374	BONE SPRING LIME	-4971	8625	8625	LIMESTONE	NONE	N
14084370	AVALON SAND	-5115	8769	8769	SHALE	NATURAL GAS, OIL	N
14084376	FIRST BONE SPRING SAND	-6057	9711	9711	SANDSTONE	NATURAL GAS, OIL	N
14084377	BONE SPRING 2ND	-6296	9950	9950	SHALE	NATURAL GAS, OIL	N
14084378	BONE SPRING 2ND	-6677	10331	10331	SANDSTONE	NATURAL GAS, OIL	N
14084379	BONE SPRING 3RD	-7208	10862	10862	LIMESTONE	NATURAL GAS, OIL	N
14084380	BONE SPRING 3RD	-7821	11475	11475	SANDSTONE	NATURAL GAS, OIL	N
14084381	WOLFCAMP	-8164	11818	11818	SHALE	NATURAL GAS, OIL	Y

## Section 2 - Blowout Prevention

**Operator Name:** EOG RESOURCES INCORPORATED**Well Name:** PRETTY GOOD 20 FED COM**Well Number:** 801H**Pressure Rating (PSI):** 10M**Rating Depth:** 12535

**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. 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 9-5/8 surface casing, a 9-5/8 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 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 1500 psi, whichever is greater.

**Requesting Variance?** YES

**Variance request:** Variance is requested to waive the centralizer requirements for the 7-5/8" casing in the 8-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 8-3/4" 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 6-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" hole interval to maximize cement bond and zonal isolation. Variance is also requested to waive the annular clearance requirements for the 5-1/2" casing by 7-5/8" casing annulus to the proposed top of cement. EOG requests permission to allow deviation from the 0.422" annulus clearance requirement from Onshore Order #2 under the following conditions: - Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casing strings. - Annular clearance less than 0.422" is acceptable for the production open hole section. 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:** 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. 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.

**Choke Diagram Attachment:**

Co\_Flex\_Hose\_Certification\_20200406102150.pdf

10\_M\_Choke\_Manifold\_20200406102201.pdf

Co\_Flex\_Hose\_Test\_Chart\_20200406102151.pdf

**BOP Diagram Attachment:**

10\_M\_BOP\_Diagram\_9.625\_in\_20200929122037.pdf

EOG\_BLM\_10M\_Annular\_Variance\_\_\_9.625\_in\_20200929122038.pdf



**Operator Name:** EOG RESOURCES INCORPORATED**Well Name:** PRETTY GOOD 20 FED COM**Well Number:** 801H**Section 3 - Casing**

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	12.25	9.625	NEW	API	N	0	980	0	980	3654	2674	980	J-55	40	LT&C	1.125	1.25	BUOY	1.6	BUOY	1.6
2	PRODUCTION	6.75	5.5	NEW	API	N	0	10470	0	10470	3645	-6816	10470	OTHER	20	OTHER - DWC/C-ISMS	1.125	1.25	BUOY	1.6	BUOY	1.6
3	PRODUCTION	6.75	5.5	NEW	API	N	10470	10970	10470	10970	-6825	-7316	500	OTHER	20	OTHER - VAM SFC	1.125	1.25	BUOY	1.6	BUOY	1.6
4	INTERMEDIATE	8.75	7.625	NEW	API	N	0	10970	0	10970	3138	-7316	10970	HCP-110	29.7	OTHER - FXL	1.125	1.25	BUOY	1.6	BUOY	1.6
5	PRODUCTION	6.75	5.5	NEW	API	N	10970	22848	10970	12535	-7325	-8881	11878	OTHER	20	OTHER - DWC/C-ISMS	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):**

Pretty\_Good\_20\_Fed\_Com\_801H\_Permit\_Info\_Single\_\_20201001091106.pdf

**Operator Name:** EOG RESOURCES INCORPORATED**Well Name:** PRETTY GOOD 20 FED COM**Well Number:** 801H**Casing Attachments****Casing ID:** 2      **String**      PRODUCTION**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**

5.500in\_20.00\_VST\_P110EC\_DWC\_C\_IS\_MS\_Spec\_Sheet\_20201001091149.pdf

See\_previously\_attached\_Drill\_Plan\_20201001091149.pdf

**Casing ID:** 3      **String**      INTERMEDIATE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**

7.625in\_29.70\_P110HC\_FXL\_20201001091126.pdf

See\_previously\_attached\_Drill\_Plan\_20201001091127.pdf

**Casing ID:** 4      **String**      PRODUCTION**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**

See\_previously\_attached\_Drill\_Plan\_20201001091213.pdf

5.500in\_20.00\_VST\_P110EC\_VAM\_SFC\_20201001091215.pdf



Operator Name: EOG RESOURCES INCORPORATED

Well Name: PRETTY GOOD 20 FED COM

Well Number: 801H

## 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\_20201001083218.pdf

5.500in\_20.00\_VST\_P110EC\_DWC\_C\_IS\_MS\_Spec\_Sheet\_20201001091038.pdf

## Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead		0	0	0	0	0	0		N/A	N/A

SURFACE	Lead		0	780	830	1.73	13.5	1435.9	25	Class C	Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello-Flake (TOC @ Surface)
SURFACE	Tail		780	980	90	1.34	14.8	120.6	25	Class C	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 780')
INTERMEDIATE	Lead		0	6900	1000	2.3	12.7	2300	25	Class C	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
INTERMEDIATE	Tail		6900	10970	490	1.11	14.2	543.9	25	Class C	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 6,900')

**Operator Name:** EOG RESOURCES INCORPORATED**Well Name:** PRETTY GOOD 20 FED COM**Well Number:** 801H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead		10470	22848	1070	1.31	14.2	1401.7	25	H	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,470')

### Section 5 - Circulating Medium

**Mud System Type:** Closed**Will an air or gas system be Used?** NO**Description of the equipment for the circulating system in accordance with Onshore Order #2:****Diagram of the equipment for the circulating system in accordance with Onshore Order #2:**

**Describe what will be on location to control well or mitigate other conditions:** (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:** The highest mud weight needed to balance formation is expected to be 11.5 ppg. In order to maintain hole stability, mud weights up to 14.0 ppg may be 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
980	10970	SALT SATURATED	10	10.2							
10970	12158	OIL-BASED MUD	8.7	9.4							
0	980	WATER-BASED MUD	8.6	8.8							
12158	12535	OIL-BASED MUD	10	14							

**Operator Name:** EOG RESOURCES INCORPORATED**Well Name:** PRETTY GOOD 20 FED COM**Well Number:** 801H

## 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:** 9115**Anticipated Surface Pressure:** 6357**Anticipated Bottom Hole Temperature(F):** 181**Anticipated abnormal pressures, temperatures, or potential geologic hazards?** NO**Describe:****Contingency Plans geohazards description:****Contingency Plans geohazards****Hydrogen Sulfide drilling operations plan required?** YES**Hydrogen sulfide drilling operations**

Pretty\_Good\_20\_Fed\_Com\_801H\_H2S\_Plan\_Summary\_20201001091505.pdf

## Section 8 - Other Information

**Proposed horizontal/directional/multi-lateral plan submission:**

Pretty\_Good\_20\_Fed\_Com\_801H\_Wall\_Plot\_20201001091556.pdf

Pretty\_Good\_20\_Fed\_Com\_801H\_Planning\_Report\_20201001091556.pdf

**Other proposed operations facets description:**

EOG requests to pump a two stage cement job on the 7-5/8 intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (6,902) and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of 1,000 sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. Once cement circulates to surface drilling operations to drill out of the intermediate shoe will proceed (per clarification from BLM 4/21/2020). The final cement top will be verified by Echo-meter.

EOG will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

EOG will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

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

**Operator Name:** EOG RESOURCES INCORPORATED**Well Name:** PRETTY GOOD 20 FED COM**Well Number:** 801H

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 1000 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:**

Pretty\_Good\_20\_Fed\_Com\_801H\_Rig\_Layout\_20201001091539.pdf  
Pretty\_Good\_20\_Fed\_Com\_801H\_Permit\_Info\_Single\_20201001091539.pdf  
5.500in\_20.00\_VST\_P110EC\_DWC\_C\_IS\_MS\_Spec\_Sheet\_20200929124817.pdf  
5.500in\_20.00\_VST\_P110EC\_VAM\_SFC\_20200929124818.pdf  
7.625in\_29.70\_P110HC\_FXL\_20200929124818.pdf  
Wellhead\_9.625\_in\_20200929124819.pdf

**Other Variance attachment:**

10\_M\_BOP\_Diagram\_9.625\_in\_20200929125150.pdf  
Co\_Flex\_Hose\_Certification\_20200406110007.pdf  
Co\_Flex\_Hose\_Test\_Chart\_20200406110007.pdf  
EOG\_BLM\_10M\_Annular\_Variance\_9.625\_in\_20200929125151.pdf

## Hose Inspection Report

ContiTech Oil &amp; Marine

Customer	Customer Reference #	CBC Reference #	CBC Inspector	Date of Inspection
H&P Drilling	740021604	COM906112	A. Jaimes	10/17/2016

Hose Manufacturer	Contitech Rubber Industrial
-------------------	-----------------------------

Hose Serial #	62429	Date of Manufacture	05/2012
Hose I.D.	3"	Working Pressure	10000PSI
Hose Type	Choke and Kill	Test Pressure	15000PSI
Manufacturing Standard	API 16C		

## Connections

End A: 3.1/16" 10Kpsi API Spec 6A Type 6BX Flange	End B: 3.1/16" 10Kpsi API Spec 6A Type 6BX Flange
• No damage	• No damage
Material: Carbon Steel	Material: Carbon Steel
Seal Face: BX154	Seal Face: BX154
Length Before Hydro Test: 16'	Length After Hydro test: 16'

**Conclusion:** Hose #62429 passed the external inspection with no notable damages to the hose armor. Internal borescope of the hose showed no damage to the hose liner. Hose #62429 passed the hydrostatic pressure test by holding a pressure of 15,000PSI for 60 minutes. Hose #62429 is suitable for continued service.

**Recommendations:** In general the hose should be inspected on a regular on-going basis. The frequency and degree of the inspection should as a minimum follow these guidelines:

Visual inspection: Every 3 months (or during installation/removal)  
 Annual: In-situ pressure test  
 Initial 5 years service: Major inspection  
 2nd Major inspection: 8 / 10 years of service  
 (Detailed description of test regime available upon request, ISS-059 Rev 04)

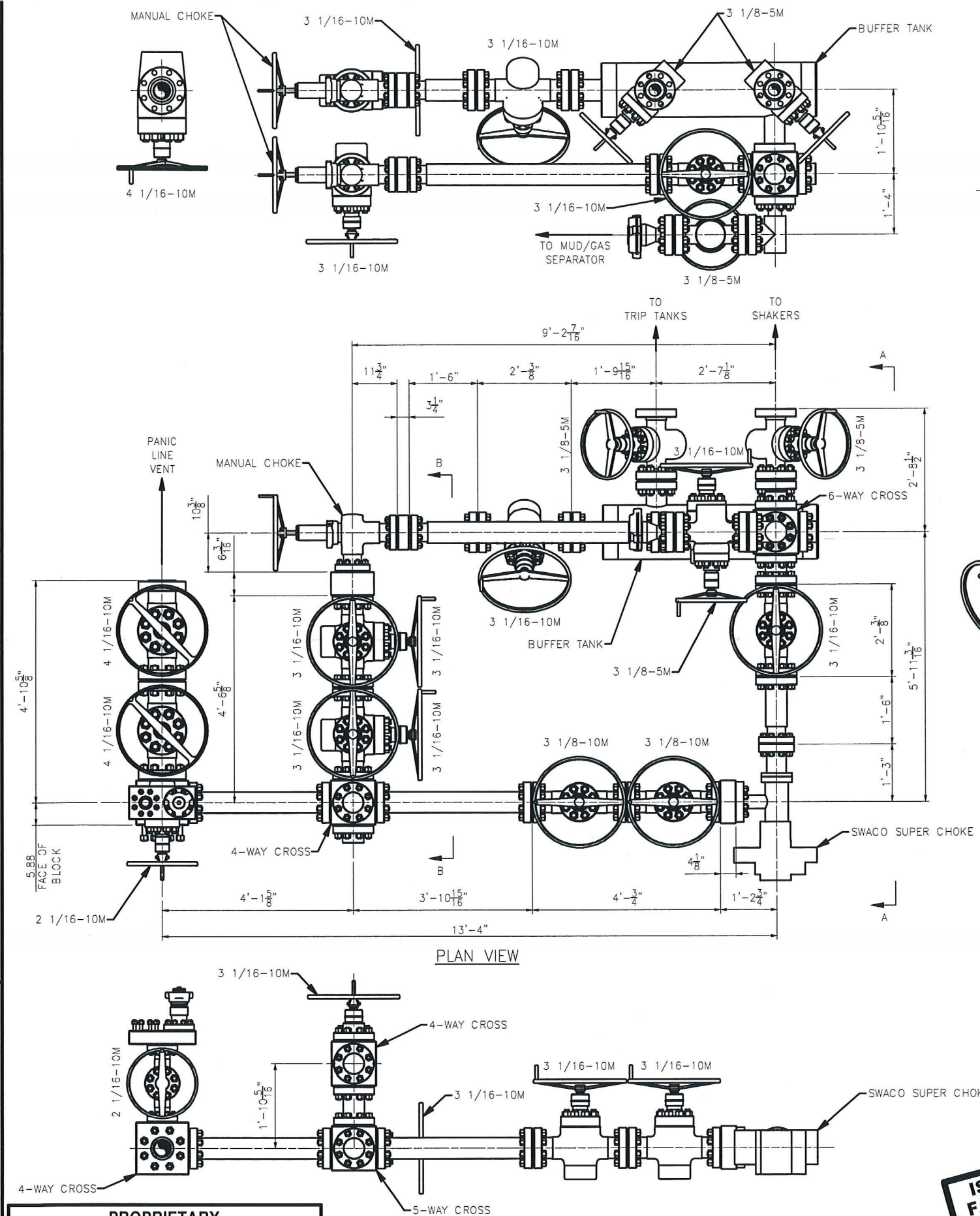
**\*\*NOTE:** There are a number of critical elements in the hose that cannot be thoroughly checked through standard inspection techniques. Away from dissecting the hose body, the best way to evaluate the condition of the hose is through review of the operating conditions recorded during the hose service life, in particular maximums and peak conditions.

Issued By: Alejandro Jaimes  
 Date: 10/25/2016

Checked By: Jeremy Mckay  
 Date: 10/25/2016  
 QF97

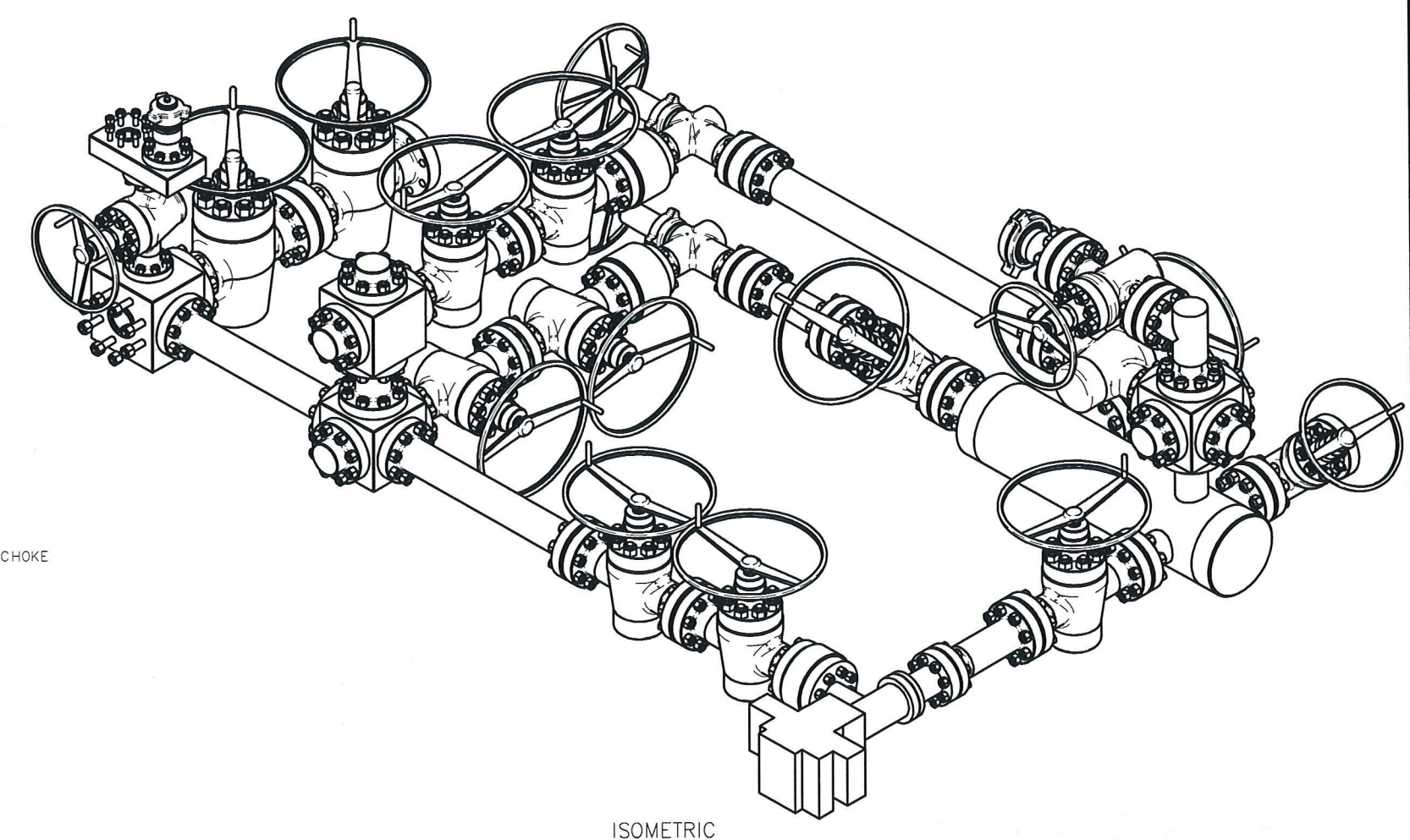
Page 1 of 1





**ISSUED FOR FABRICATION**  
February-10-2014  
DRAFTSMAN *MWL*  
ENGINEER *[Signature]*

**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.

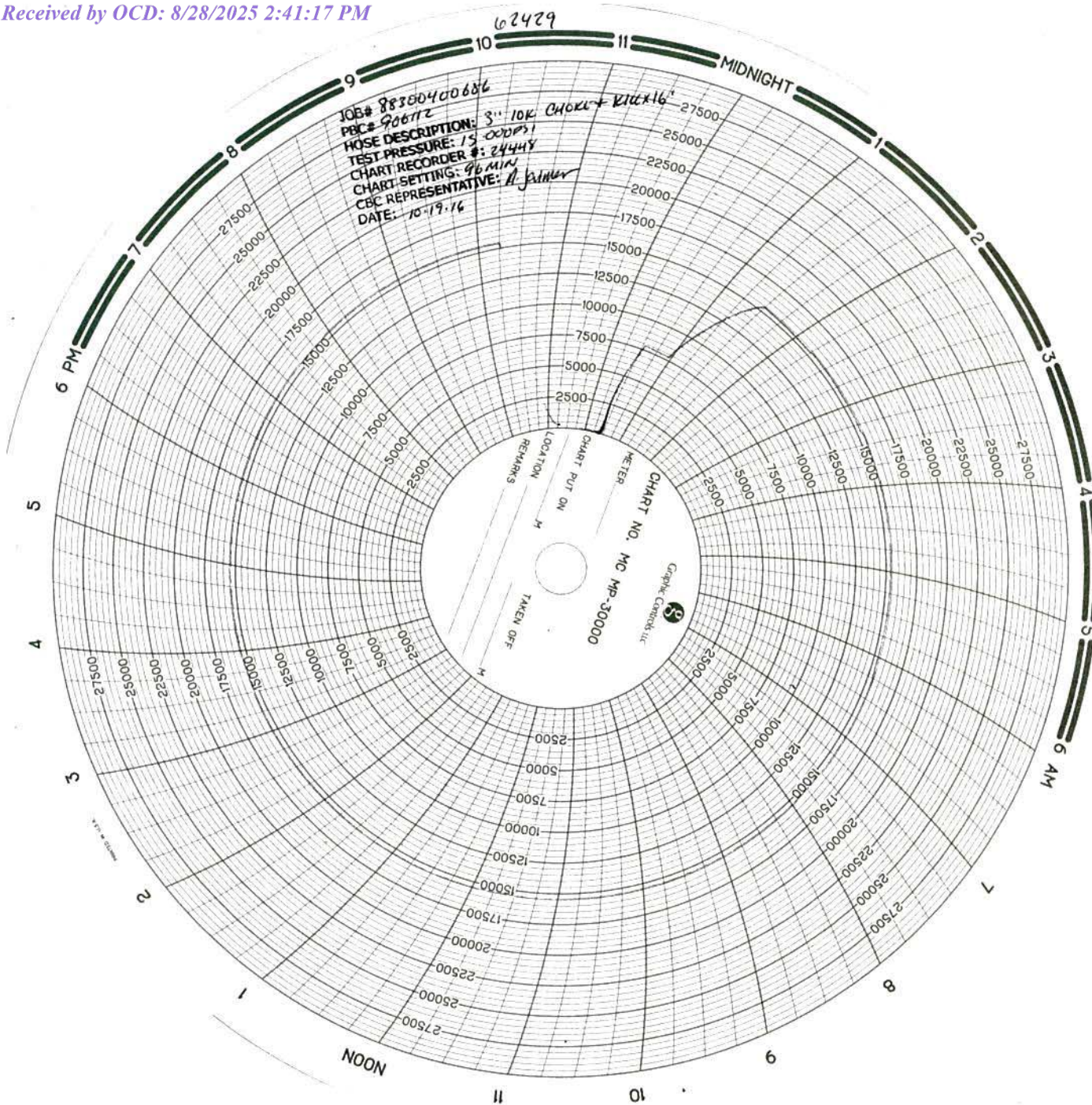


STANDARD TOLERANCES (UNLESS NOTED)			
1. FABRICATION DIMENSIONS:	A-0" TO 24"	± 1/16"	
	B-24" TO 120"	± 1/8"	
	C-OVER 120"	± 1/4"	
2. MACHINED DIMENSIONS:	A-ANGULAR	± .30"	
	B-LINEAR (EXPRESSED AS FRACTION)	± .015"	
	C-LINEAR (EXPRESSED TO ONE DECIMAL)	± .1"	
	D-LINEAR (EXPRESSED TO TWO DECIMALS)	± .015"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

REV		DATE	DESCRIPTION	BY

TITLE:		HELMERICH & PAYNE INTERNATIONAL DRILLING CO.	
CUSTOMER:		H&P	
PROJECT:		3 CHOKE, 3 LEVEL, 10M CHOKE MANIFOLD G.A.	
DRAWN:	MWL	DATE:	2/10/2014
SCALE:	3/4"=1'-0"	SHEET:	1 OF 1
DWG. NO.:	HP-D1254	REV:	

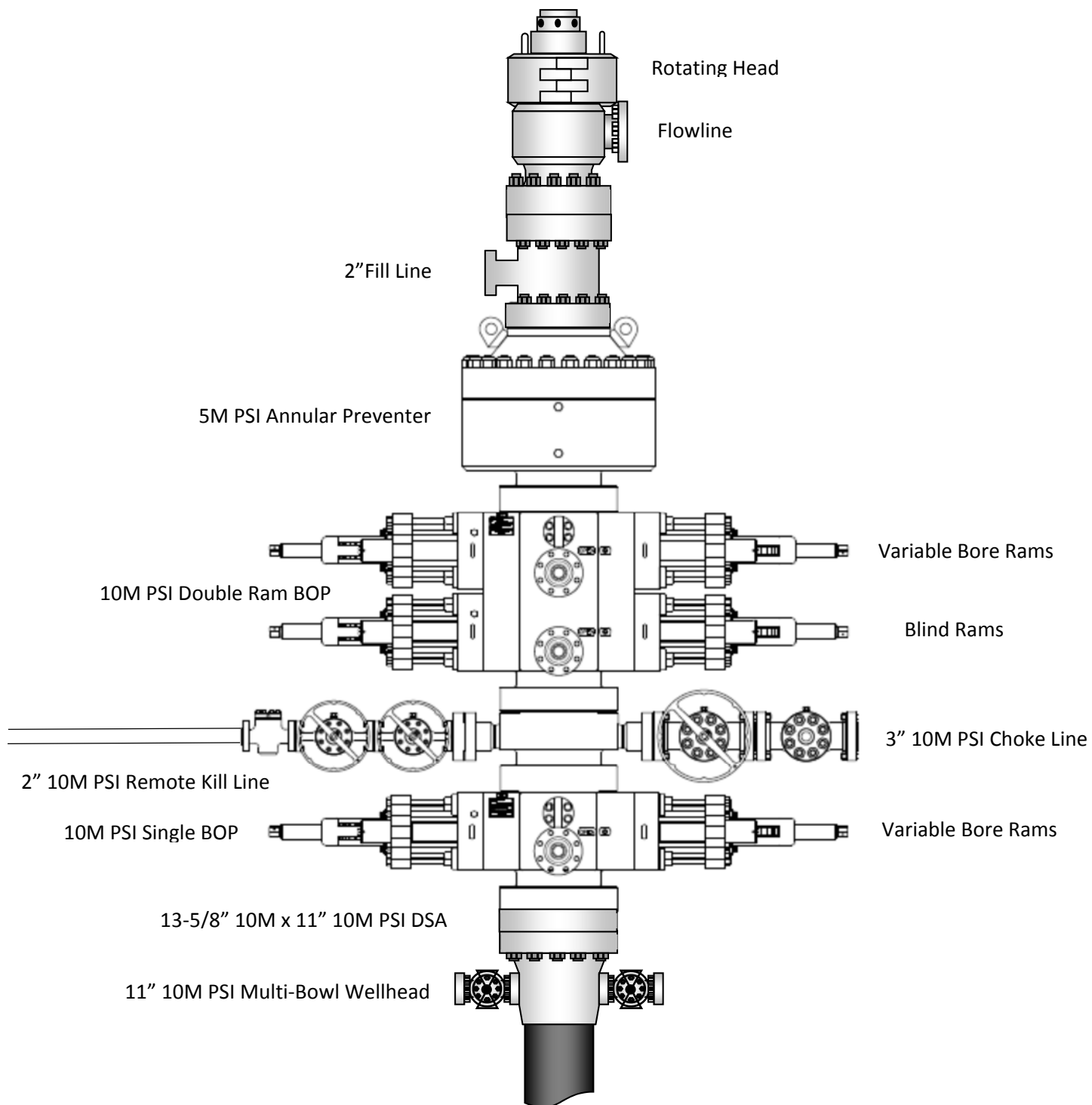




# Exhibit 1

## EOG Resources

### 11" 10M PSI BOP Stack





## 10,000 PSI BOP Annular Variance Request

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

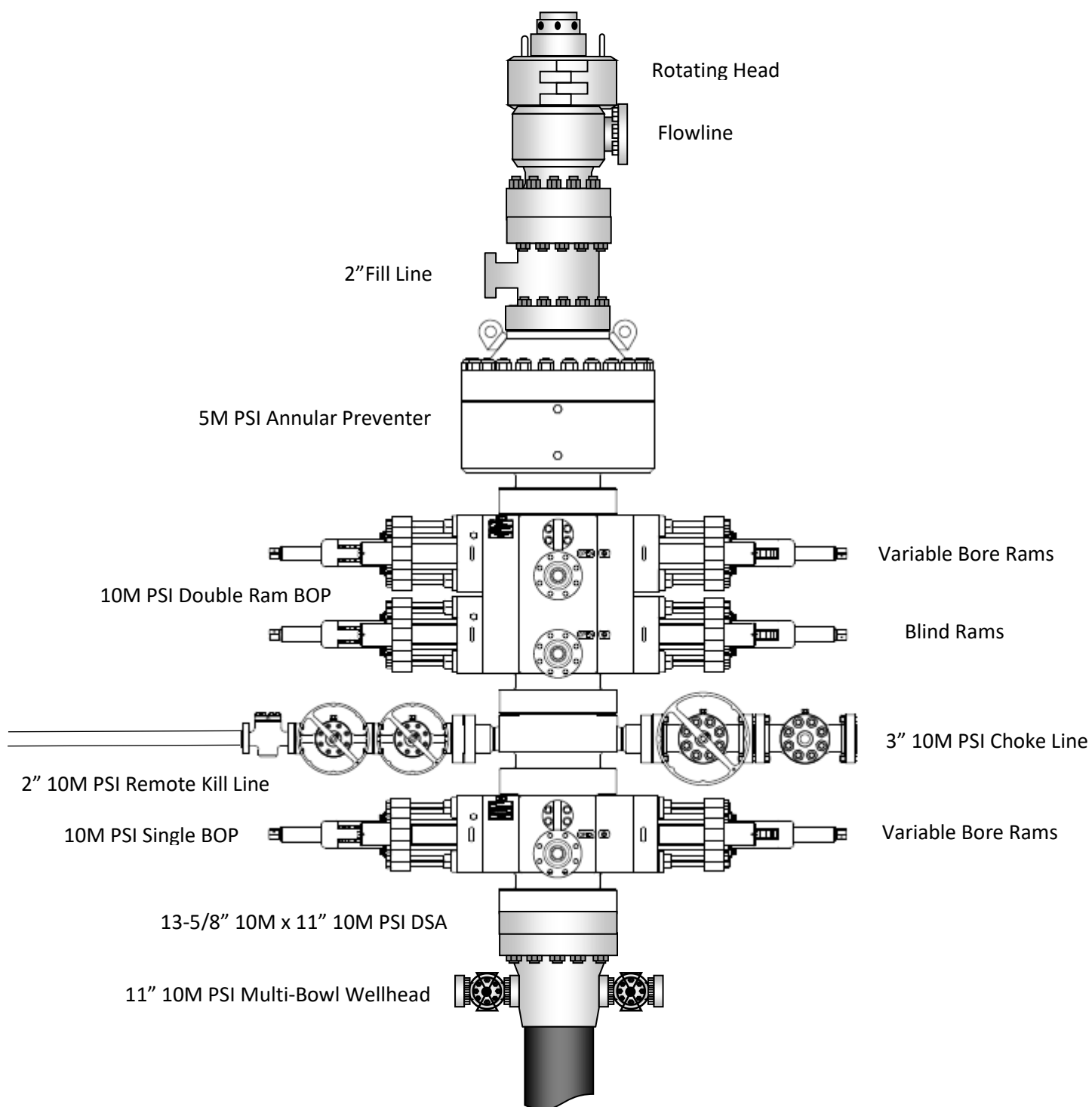
The tables below outlines the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

9-7/8" & 8-3/4" Intermediate Hole Section 10M psi requirement					
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP
Drillpipe	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
HWDP	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
Jars	4.500"	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	-	-
Intermediate casing	7.625"	Annular	5M	-	-
Open-hole	-	Blind Rams	10M	-	-

6-3/4" Production Hole Section 10M psi requirement					
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP
Drillpipe	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
HWDP	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
DCs and MWD tools	4.750 – 5.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
Mud Motor	4.750 – 5.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
Mud Motor	5.500 – 5.750"	Annular	5M	-	-
Production casing	5.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
Open-hole	-	Blind Rams	10M	-	-

VBR = Variable Bore Ram

## EOG Resources 11" 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

See previously attached Drill Plan

**EOG RESOURCES, INC.  
PRETTY GOOD 20 FED COM #801H**

**1. GEOLOGIC NAME OF SURFACE FORMATION:**

Permian

**2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:**

Rustler	857'
Tamarisk Anhydrite	949'
Top of Salt	1,263'
Base of Salt	4,404'
Lamar	4,749'
Bell Canyon	4,785'
Cherry Canyon	5,629'
Brushy Canyon	6,902'
Bone Spring Lime	8,625'
Leonard A Shale	8,769'
Leonard B Shale	9,009'
1 <sup>st</sup> Bone Spring Sand	9,711'
2 <sup>nd</sup> Bone Spring Shale	9,950'
2 <sup>nd</sup> Bone Spring Sand	10,331'
3 <sup>rd</sup> Bone Spring Carb	10,862'
3 <sup>rd</sup> Bone Spring Sand	11,475'
Wolfcamp	11,818'
TD	12,535'

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

Upper Permian Sands	0- 400'	Fresh Water
Cherry Canyon	5,629'	Oil
Brushy Canyon	6,902'	Oil
Leonard A Shale	8,769'	Oil
Leonard B Shale	9,009'	Oil
1 <sup>st</sup> Bone Spring Sand	9,711'	Oil
2 <sup>nd</sup> Bone Spring Shale	9,950'	Oil
2 <sup>nd</sup> Bone Spring Sand	10,331'	Oil
3 <sup>rd</sup> Bone Spring Carb	10,862'	Oil
3 <sup>rd</sup> Bone Spring Sand	11,475'	Oil
Wolfcamp	11,818'	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 9.625" casing at 980' and circulating cement back to surface.

**EOG RESOURCES, INC.  
PRETTY GOOD 20 FED COM #801H**

**4. CASING PROGRAM - NEW**

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF <sub>min</sub> Collapse	DF <sub>min</sub> Burst	DF <sub>min</sub> Tension
12.25"	0' – 980'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
8.75"	0' – 10,970'	7.625"	29.7#	HCP-110	FXL	1.125	1.25	1.60
6.75"	0' – 10,470'	5.5"	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.60
6.75"	10,470'–10,970'	5.5"	20#	P-110EC	VAM SFC	1.125	1.25	1.60
6.75"	10,970' – 22,848'	5.5"	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.60

Variance is requested to waive the centralizer requirements for the 7-5/8" casing in the 8-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 8-3/4" 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 6-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive the annular clearance requirements for the 5-1/2" casing by 7-5/8" casing annulus to the proposed top of cement.

EOG requests permission to allow deviation from the 0.422" annulus clearance requirement from Onshore Order #2 under the following conditions:

- Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casing strings.
- Annular clearance less than 0.422" is acceptable for the production open hole section.

**Cementing Program:**

Depth	No. Sacks	Wt. ppg	Yld Ft <sup>3</sup> /sk	Slurry Description
980' 9-5/8"	830	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl <sub>2</sub> + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	90	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 780')
10,970' 7-5/8"	490	14.2	1.11	1 <sup>st</sup> Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 6,900')
	1,000	12.7	2.30	2 <sup>nd</sup> Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
22,848' 5-1/2"	1,070	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,470')



**EOG RESOURCES, INC.  
PRETTY GOOD 20 FED COM #801H**

<b>Additive</b>	<b>Purpose</b>
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

EOG requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (6,902') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of 1,000 sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. Once cement circulates to surface drilling operations to drill out of the intermediate shoe will proceed (per clarification from BLM 4/21/2020). The final cement top will be verified by Echo-meter.

EOG will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

EOG will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

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.

**EOG RESOURCES, INC.  
PRETTY GOOD 20 FED COM #801H**

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.

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.

**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 – 980'	Fresh - Gel	8.6-8.8	28-34	N/c
980' – 10,970'	Brine	10.0-10.2	28-34	N/c
10,970' – 12,158'	Oil Base	8.7-9.4	58-68	N/c - 6
12,158' – 22,848' Lateral	Oil Base	10.0-14.0	58-68	3 - 6

The highest mud weight needed to balance formation is expected to be 11.5 ppg. In order to maintain hole stability, mud weights up to 14.0 ppg may be 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.

**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) H<sub>2</sub>S monitoring and detection equipment will be utilized from surface casing point to TD.

**EOG RESOURCES, INC.  
PRETTY GOOD 20 FED COM #801H**

**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 181 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 9,115 psig and a maximum anticipated surface pressure of 6,358 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 6,902' 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.

(A) 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 1000 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 9-5/8" surface casing, a 9-5/8" 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.

**EOG RESOURCES, INC.  
PRETTY GOOD 20 FED COM #801H**

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 1500 psi, whichever is greater.

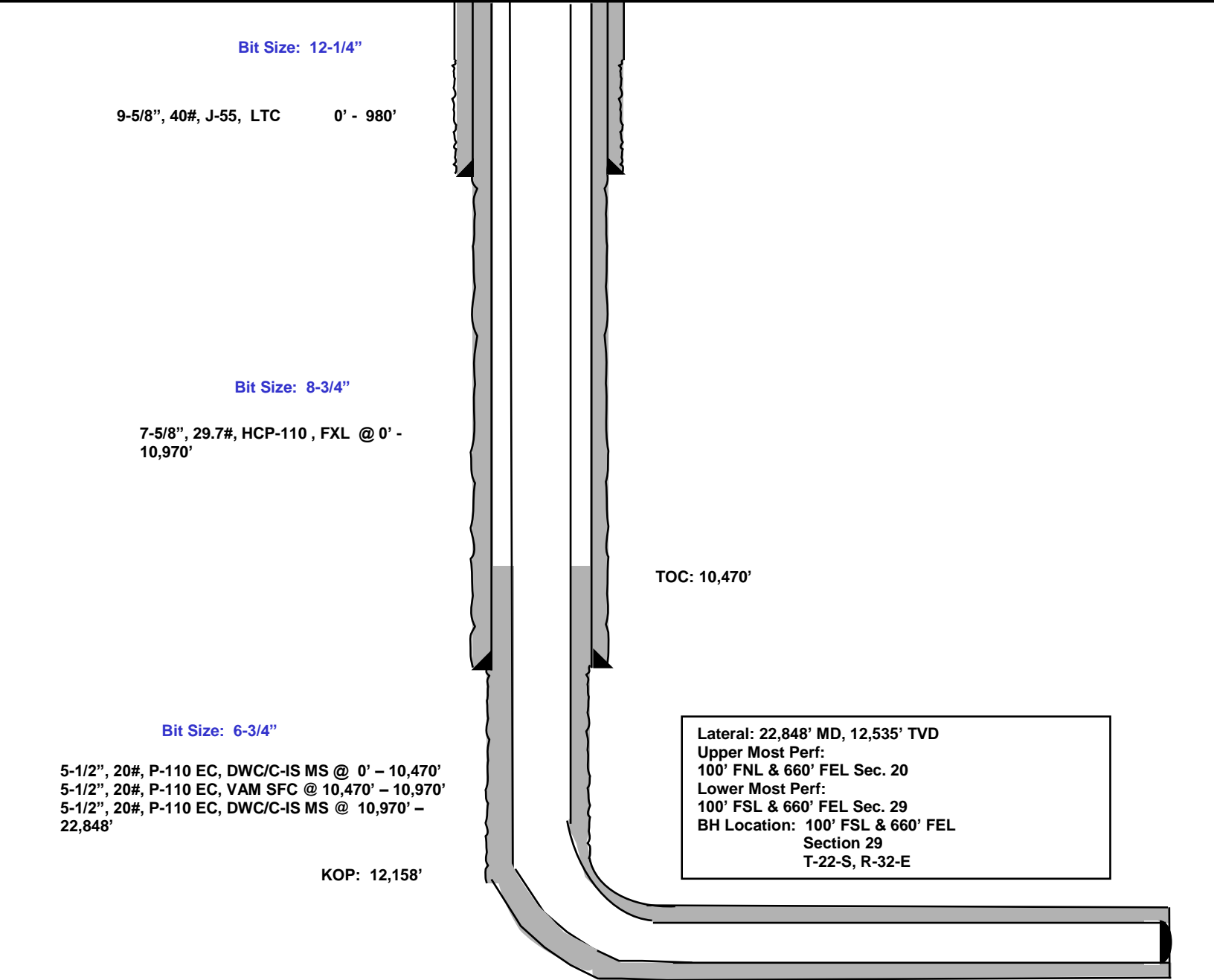
EOG RESOURCES, INC.  
PRETTY GOOD 20 FED COM #801H

473' FNL  
2,061' FEL  
Section 20  
T-22-S, R-32-E

Proposed Wellbore

KB: 3,679'  
GL: 3,654'

API: 30-025-\*\*\*\*\*



<b>Metal One Corp.</b>  <b>Metal One</b>	<b>MO-FXL</b>  <b>Connection Data Sheet</b>	Page	MCTP	
		Date	3-Nov-16	
		Rev.	0	

**MO-FXL**

**Geometry**

Imperial

S.I.

**Pipe Body**

Grade	P110HC *1		P110HC *1	
Pipe OD ( D )	7 5/8	in	193.68	mm
Weight	29.70	lb/ft	44.25	kg/m
Actual weight	29.04		43.26	kg/m
Wall Thickness ( t )	0.375	in	9.53	mm
Pipe ID ( d )	6.875	in	174.63	mm
Pipe body cross section	8.537	in <sup>2</sup>	5,508	mm <sup>2</sup>
Drift Dia.	6.750	in	171.45	mm

**Connection**

Box OD ( W )	7.625	in	193.68	mm
PIN ID	6.875	in	174.63	mm
Make up Loss	4.219	in	107.16	mm
Box Critical Area	5.714	in <sup>2</sup>	3686	mm <sup>2</sup>
Joint load efficiency	70	%	70	%
Thread Taper	1 / 10 ( 1.2" per ft )			
Number of Threads	5 TPI			

**Performance**

**Performance Properties for Pipe Body**

S.M.Y.S. *1	1,067	kips	4,747	kN
M.I.Y.P. *1	10,760	psi	74.21	MPa
Collapse Strength *1	7,360	psi	50.76	MPa

Note S.M.Y.S.= Specified Minimum YIELD Strength of Pipe body  
 M.I.Y.P. = Minimum Internal Yield Pressure of Pipe body  
 \*1 Based on VSB P110HC (YS=125~140ksi)

**Performance Properties for Connection**

Tensile Yield load	747 kips ( 70% of S.M.Y.S. )
Min. Compression Yield	747 kips ( 70% of S.M.Y.S. )
Internal Pressure	8,610 psi ( 80% of M.I.Y.P. )
External Pressure	100% of Collapse Strength
Max. DLS ( deg. /100ft)	40

**Recommended Torque**

Min.	15,500	ft-lb	21,000	N-m
Opti.	17,200	ft-lb	23,300	N-m
Max.	18,900	ft-lb	25,600	N-m
Operational Max.	23,600	ft-lb	32,000	N-m

Note : Operational Max. torque can be applied for high torque application

The diagram illustrates a pipe connection. A vertical pipe is shown with a box end on the left and a pin end on the right. The 'Make up loss' is indicated as the distance between the two ends. The 'Box critical area' is the area of the box end, and the 'Pin critical area' is the area of the pin end. Dimensions 'd' and 'D' are shown as the inner and outer diameters of the pipe body, respectively.

See previously attached Drill Plan

See previously attached Drill Plan



See previously attached Drill Plan

**EOG RESOURCES, INC  
PRETTY GOOD 20 FED COM #801H**

**Hydrogen Sulfide Plan Summary**

- A. All personnel shall receive proper H<sub>2</sub>S 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/Escapes 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

- H<sub>2</sub>S 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.

**EOG RESOURCES, INC**  
**PRETTY GOOD 20 FED COM #801H**

- **Mud program:**  
The mud program has been designed to minimize the volume of H<sub>2</sub>S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H<sub>2</sub>S 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 H<sub>2</sub>S service.
- **Communication:**  
Communication will be via cell phones and land lines where available.

**EOG RESOURCES, INC**  
**PRETTY GOOD 20 FED COM #801H**

**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

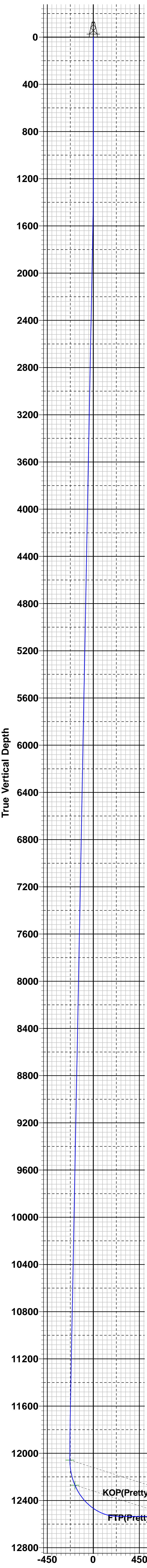
**Tool Pusher:**

Johnathan Craig	Cell (817) 760-6374
Brad Garrett	

**Safety**

Brian Chandler (HSE Manager)	Office (432) 686-3695
	Cell (817) 239-0251





To convert a Magnetic Direction to a Grid Direction, Add 6.37°  
To convert a Magnetic Direction to a True Direction, Add 6.71° East  
To convert a True Direction to a Grid Direction, Subtract 0.34°

Lea County, NM (NAD 83 NME)

Pretty Good 20 Fed Com #801H

Plan #0.1 RT

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

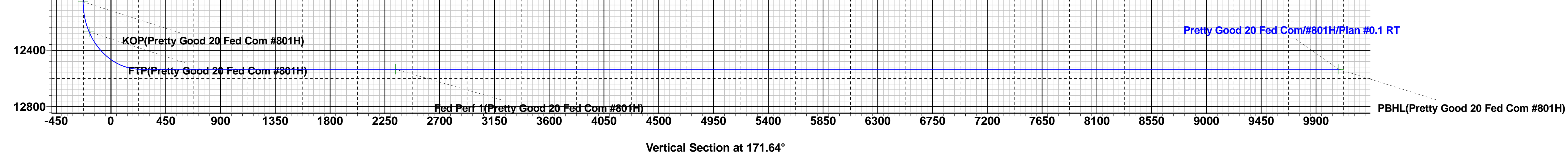
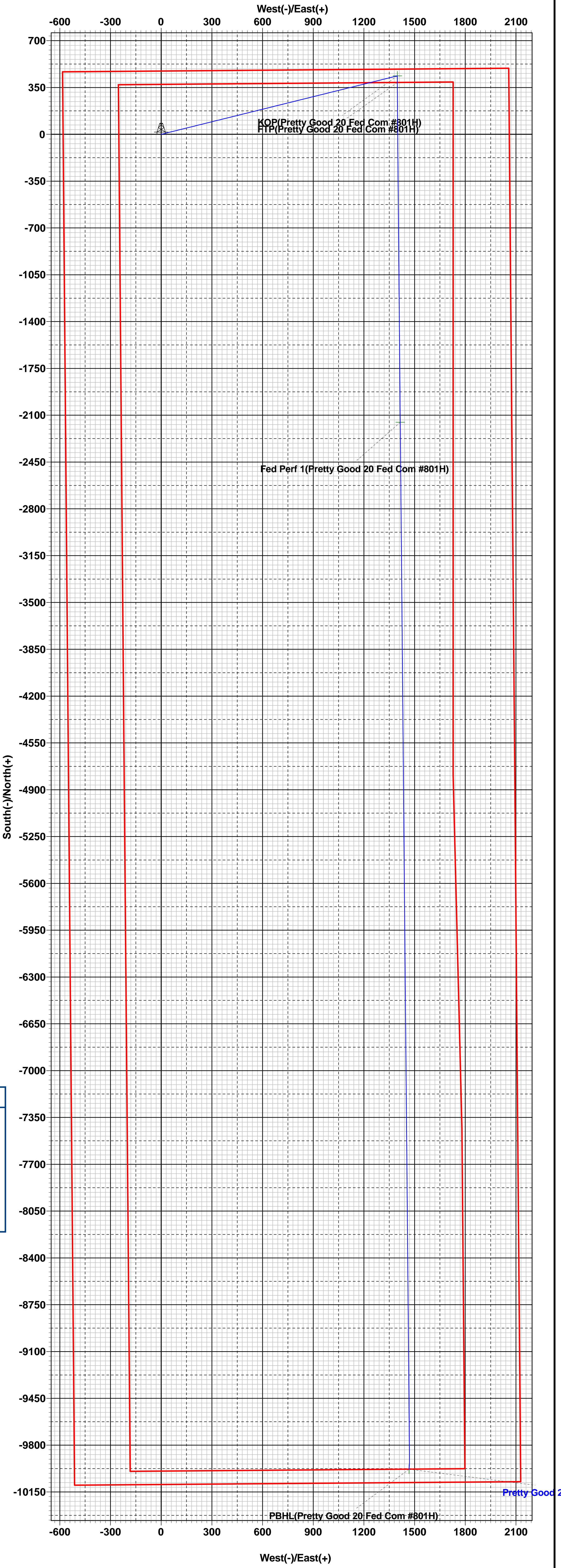
Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: New Mexico Eastern Zone  
System Datum: Mean Sea Level

WELL DETAILS: #801H			
kb = 25' @ 3679.0usft			
3654.0			
Northing	Easting	Latitude	Longitude
503678.00	738420.00	32.3830632°N	103.6948959°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	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
3	1598.6	7.97	72.64	1597.3	8.3	26.4	2.00	72.64	-4.3	
4	11759.7	7.97	72.64	11660.2	428.7	1371.6	0.00	0.00	-224.7	
5	12158.3	0.00	0.00	12057.5	437.0	1398.0	2.00	180.00	-229.0	KOP(Pretty Good 20 Fed Com #801H)
6	12378.7	26.46	180.00	12270.2	387.0	1398.0	12.00	180.00	-179.6	FTP(Pretty Good 20 Fed Com #801H)
7	12908.3	90.00	179.60	12534.9	-40.4	1400.1	12.00	-0.45	243.6	
8	15020.9	90.00	179.60	12535.0	-2153.0	1415.0	0.00	0.00	2335.9	Fed Perf 1(Pretty Good 20 Fed Com #801H)
9	15021.1	90.00	179.60	12535.0	-2153.2	1415.0	0.00	0.00	2336.1	
10	22848.0	90.00	179.60	12535.0	-9980.0	1467.0	0.00	0.00	10087.2	PBHL(Pretty Good 20 Fed Com #801H)

CASING DETAILS
No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)					
Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP(Pretty Good 20 Fed Com #801H)	12057.5	437.0	1398.0	504115.00	739818.00
FTP(Pretty Good 20 Fed Com #801H)	12270.2	387.0	1398.0	504065.00	739818.00
Fed Perf 1(Pretty Good 20 Fed Com #801H)	12535.0	-2153.0	1415.0	501525.00	739835.00
PBHL(Pretty Good 20 Fed Com #801H)	12535.0	-9980.0	1467.0	493698.00	739887.00





## **EOG Resources - Midland**

**Lea County, NM (NAD 83 NME)**

**Pretty Good 20 Fed Com**

**#801H**

**OH**

**Plan: Plan #0.1 RT**

## **Standard Planning Report**

**01 September, 2020**



## EOG Resources

## Planning Report



<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well #801H
<b>Company:</b>	EOG Resources - Midland	<b>TVD Reference:</b>	kb = 25' @ 3679.0usft
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	kb = 25' @ 3679.0usft
<b>Site:</b>	Pretty Good 20 Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	#801H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #0.1 RT		

<b>Project</b>	Lea County, NM (NAD 83 NME)		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	New Mexico Eastern Zone		

Site	Pretty Good 20 Fed Com					
Site Position:		Northing:	503,120.00 usft	Latitude:	32.3815209°N	
From:	Map	Easting:	738,938.00 usft	Longitude:	103.6932288°W	
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.34 °

Well	#801H					
Well Position	+N/-S	558.0 usft	Northing:	503,678.00 usft	Latitude:	32.3830632°N
	+E/-W	-518.0 usft	Easting:	738,420.00 usft	Longitude:	103.6948959°W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,654.0 usft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2020	8/20/2020	6.71	60.05	47,659.04642281

<b>Design</b>	Plan #0.1 RT			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	171.64

<b>Plan Survey Tool Program</b>	<b>Date</b>	9/1/2020		
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.0	22,848.0	Plan #0.1 RT (OH)	EOG MWD+IFR1
			MWD + IFR1	

## EOG Resources

## Planning Report



<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well #801H
<b>Company:</b>	EOG Resources - Midland	<b>TVD Reference:</b>	kb = 25' @ 3679.0usft
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	kb = 25' @ 3679.0usft
<b>Site:</b>	Pretty Good 20 Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	#801H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,598.6	7.97	72.64	1,597.3	8.3	26.4	2.00	2.00	0.00	72.64	
11,759.7	7.97	72.64	11,660.2	428.7	1,371.6	0.00	0.00	0.00	0.00	
12,158.3	0.00	0.00	12,057.5	437.0	1,398.0	2.00	-2.00	0.00	180.00	KOP(Pretty Good 20 I
12,378.7	26.46	180.00	12,270.2	387.0	1,398.0	12.00	12.00	81.65	180.00	FTP(Pretty Good 20 F
12,908.3	90.00	179.60	12,534.9	-40.4	1,400.1	12.00	12.00	-0.08	-0.45	
15,020.9	90.00	179.60	12,535.0	-2,153.0	1,415.0	0.00	0.00	0.00	0.00	Fed Perf 1(Pretty Goc
15,021.1	90.00	179.60	12,535.0	-2,153.2	1,415.0	0.00	0.00	0.00	0.00	
22,848.0	90.00	179.60	12,535.0	-9,980.0	1,467.0	0.00	0.00	0.00	0.00	PBHL(Pretty Good 20



## EOG Resources

## Planning Report



<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well #801H
<b>Company:</b>	EOG Resources - Midland	<b>TVD Reference:</b>	kb = 25' @ 3679.0usft
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	kb = 25' @ 3679.0usft
<b>Site:</b>	Pretty Good 20 Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	#801H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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	2.00	72.64	1,300.0	0.5	1.7	-0.3	2.00	2.00	0.00
1,400.0	4.00	72.64	1,399.8	2.1	6.7	-1.1	2.00	2.00	0.00
1,500.0	6.00	72.64	1,499.5	4.7	15.0	-2.5	2.00	2.00	0.00
1,598.6	7.97	72.64	1,597.3	8.3	26.4	-4.3	2.00	2.00	0.00
1,600.0	7.97	72.64	1,598.7	8.3	26.6	-4.4	0.00	0.00	0.00
1,700.0	7.97	72.64	1,697.7	12.5	39.8	-6.5	0.00	0.00	0.00
1,800.0	7.97	72.64	1,796.8	16.6	53.1	-8.7	0.00	0.00	0.00
1,900.0	7.97	72.64	1,895.8	20.7	66.3	-10.9	0.00	0.00	0.00
2,000.0	7.97	72.64	1,994.8	24.9	79.6	-13.0	0.00	0.00	0.00
2,100.0	7.97	72.64	2,093.9	29.0	92.8	-15.2	0.00	0.00	0.00
2,200.0	7.97	72.64	2,192.9	33.1	106.0	-17.4	0.00	0.00	0.00
2,300.0	7.97	72.64	2,291.9	37.3	119.3	-19.5	0.00	0.00	0.00
2,400.0	7.97	72.64	2,391.0	41.4	132.5	-21.7	0.00	0.00	0.00
2,500.0	7.97	72.64	2,490.0	45.6	145.8	-23.9	0.00	0.00	0.00
2,600.0	7.97	72.64	2,589.0	49.7	159.0	-26.0	0.00	0.00	0.00
2,700.0	7.97	72.64	2,688.1	53.8	172.2	-28.2	0.00	0.00	0.00
2,800.0	7.97	72.64	2,787.1	58.0	185.5	-30.4	0.00	0.00	0.00
2,900.0	7.97	72.64	2,886.1	62.1	198.7	-32.6	0.00	0.00	0.00
3,000.0	7.97	72.64	2,985.2	66.3	211.9	-34.7	0.00	0.00	0.00
3,100.0	7.97	72.64	3,084.2	70.4	225.2	-36.9	0.00	0.00	0.00
3,200.0	7.97	72.64	3,183.2	74.5	238.4	-39.1	0.00	0.00	0.00
3,300.0	7.97	72.64	3,282.3	78.7	251.7	-41.2	0.00	0.00	0.00
3,400.0	7.97	72.64	3,381.3	82.8	264.9	-43.4	0.00	0.00	0.00
3,500.0	7.97	72.64	3,480.3	86.9	278.1	-45.6	0.00	0.00	0.00
3,600.0	7.97	72.64	3,579.4	91.1	291.4	-47.7	0.00	0.00	0.00
3,700.0	7.97	72.64	3,678.4	95.2	304.6	-49.9	0.00	0.00	0.00
3,800.0	7.97	72.64	3,777.4	99.4	317.9	-52.1	0.00	0.00	0.00
3,900.0	7.97	72.64	3,876.5	103.5	331.1	-54.2	0.00	0.00	0.00
4,000.0	7.97	72.64	3,975.5	107.6	344.3	-56.4	0.00	0.00	0.00
4,100.0	7.97	72.64	4,074.5	111.8	357.6	-58.6	0.00	0.00	0.00
4,200.0	7.97	72.64	4,173.6	115.9	370.8	-60.8	0.00	0.00	0.00
4,300.0	7.97	72.64	4,272.6	120.0	384.0	-62.9	0.00	0.00	0.00
4,400.0	7.97	72.64	4,371.6	124.2	397.3	-65.1	0.00	0.00	0.00
4,500.0	7.97	72.64	4,470.7	128.3	410.5	-67.3	0.00	0.00	0.00
4,600.0	7.97	72.64	4,569.7	132.5	423.8	-69.4	0.00	0.00	0.00
4,700.0	7.97	72.64	4,668.7	136.6	437.0	-71.6	0.00	0.00	0.00
4,800.0	7.97	72.64	4,767.8	140.7	450.2	-73.8	0.00	0.00	0.00
4,900.0	7.97	72.64	4,866.8	144.9	463.5	-75.9	0.00	0.00	0.00
5,000.0	7.97	72.64	4,965.8	149.0	476.7	-78.1	0.00	0.00	0.00
5,100.0	7.97	72.64	5,064.9	153.2	489.9	-80.3	0.00	0.00	0.00
5,200.0	7.97	72.64	5,163.9	157.3	503.2	-82.4	0.00	0.00	0.00

## EOG Resources

## Planning Report



<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well #801H
<b>Company:</b>	EOG Resources - Midland	<b>TVD Reference:</b>	kb = 25' @ 3679.0usft
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	kb = 25' @ 3679.0usft
<b>Site:</b>	Pretty Good 20 Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	#801H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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)
5,300.0	7.97	72.64	5,262.9	161.4	516.4	-84.6	0.00	0.00	0.00
5,400.0	7.97	72.64	5,362.0	165.6	529.7	-86.8	0.00	0.00	0.00
5,500.0	7.97	72.64	5,461.0	169.7	542.9	-88.9	0.00	0.00	0.00
5,600.0	7.97	72.64	5,560.0	173.8	556.1	-91.1	0.00	0.00	0.00
5,700.0	7.97	72.64	5,659.1	178.0	569.4	-93.3	0.00	0.00	0.00
5,800.0	7.97	72.64	5,758.1	182.1	582.6	-95.5	0.00	0.00	0.00
5,900.0	7.97	72.64	5,857.1	186.3	595.9	-97.6	0.00	0.00	0.00
6,000.0	7.97	72.64	5,956.2	190.4	609.1	-99.8	0.00	0.00	0.00
6,100.0	7.97	72.64	6,055.2	194.5	622.3	-102.0	0.00	0.00	0.00
6,200.0	7.97	72.64	6,154.2	198.7	635.6	-104.1	0.00	0.00	0.00
6,300.0	7.97	72.64	6,253.3	202.8	648.8	-106.3	0.00	0.00	0.00
6,400.0	7.97	72.64	6,352.3	206.9	662.0	-108.5	0.00	0.00	0.00
6,500.0	7.97	72.64	6,451.3	211.1	675.3	-110.6	0.00	0.00	0.00
6,600.0	7.97	72.64	6,550.4	215.2	688.5	-112.8	0.00	0.00	0.00
6,700.0	7.97	72.64	6,649.4	219.4	701.8	-115.0	0.00	0.00	0.00
6,800.0	7.97	72.64	6,748.4	223.5	715.0	-117.1	0.00	0.00	0.00
6,900.0	7.97	72.64	6,847.5	227.6	728.2	-119.3	0.00	0.00	0.00
7,000.0	7.97	72.64	6,946.5	231.8	741.5	-121.5	0.00	0.00	0.00
7,100.0	7.97	72.64	7,045.5	235.9	754.7	-123.6	0.00	0.00	0.00
7,200.0	7.97	72.64	7,144.6	240.1	768.0	-125.8	0.00	0.00	0.00
7,300.0	7.97	72.64	7,243.6	244.2	781.2	-128.0	0.00	0.00	0.00
7,400.0	7.97	72.64	7,342.6	248.3	794.4	-130.2	0.00	0.00	0.00
7,500.0	7.97	72.64	7,441.7	252.5	807.7	-132.3	0.00	0.00	0.00
7,600.0	7.97	72.64	7,540.7	256.6	820.9	-134.5	0.00	0.00	0.00
7,700.0	7.97	72.64	7,639.7	260.7	834.1	-136.7	0.00	0.00	0.00
7,800.0	7.97	72.64	7,738.8	264.9	847.4	-138.8	0.00	0.00	0.00
7,900.0	7.97	72.64	7,837.8	269.0	860.6	-141.0	0.00	0.00	0.00
8,000.0	7.97	72.64	7,936.8	273.2	873.9	-143.2	0.00	0.00	0.00
8,100.0	7.97	72.64	8,035.9	277.3	887.1	-145.3	0.00	0.00	0.00
8,200.0	7.97	72.64	8,134.9	281.4	900.3	-147.5	0.00	0.00	0.00
8,300.0	7.97	72.64	8,233.9	285.6	913.6	-149.7	0.00	0.00	0.00
8,400.0	7.97	72.64	8,333.0	289.7	926.8	-151.8	0.00	0.00	0.00
8,500.0	7.97	72.64	8,432.0	293.8	940.1	-154.0	0.00	0.00	0.00
8,600.0	7.97	72.64	8,531.0	298.0	953.3	-156.2	0.00	0.00	0.00
8,700.0	7.97	72.64	8,630.1	302.1	966.5	-158.4	0.00	0.00	0.00
8,800.0	7.97	72.64	8,729.1	306.3	979.8	-160.5	0.00	0.00	0.00
8,900.0	7.97	72.64	8,828.1	310.4	993.0	-162.7	0.00	0.00	0.00
9,000.0	7.97	72.64	8,927.2	314.5	1,006.2	-164.9	0.00	0.00	0.00
9,100.0	7.97	72.64	9,026.2	318.7	1,019.5	-167.0	0.00	0.00	0.00
9,200.0	7.97	72.64	9,125.2	322.8	1,032.7	-169.2	0.00	0.00	0.00
9,300.0	7.97	72.64	9,224.3	327.0	1,046.0	-171.4	0.00	0.00	0.00
9,400.0	7.97	72.64	9,323.3	331.1	1,059.2	-173.5	0.00	0.00	0.00
9,500.0	7.97	72.64	9,422.3	335.2	1,072.4	-175.7	0.00	0.00	0.00
9,600.0	7.97	72.64	9,521.4	339.4	1,085.7	-177.9	0.00	0.00	0.00
9,700.0	7.97	72.64	9,620.4	343.5	1,098.9	-180.0	0.00	0.00	0.00
9,800.0	7.97	72.64	9,719.4	347.6	1,112.1	-182.2	0.00	0.00	0.00
9,900.0	7.97	72.64	9,818.5	351.8	1,125.4	-184.4	0.00	0.00	0.00
10,000.0	7.97	72.64	9,917.5	355.9	1,138.6	-186.5	0.00	0.00	0.00
10,100.0	7.97	72.64	10,016.5	360.1	1,151.9	-188.7	0.00	0.00	0.00
10,200.0	7.97	72.64	10,115.6	364.2	1,165.1	-190.9	0.00	0.00	0.00
10,300.0	7.97	72.64	10,214.6	368.3	1,178.3	-193.1	0.00	0.00	0.00
10,400.0	7.97	72.64	10,313.6	372.5	1,191.6	-195.2	0.00	0.00	0.00
10,500.0	7.97	72.64	10,412.7	376.6	1,204.8	-197.4	0.00	0.00	0.00
10,600.0	7.97	72.64	10,511.7	380.8	1,218.1	-199.6	0.00	0.00	0.00

## EOG Resources

## Planning Report



<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well #801H
<b>Company:</b>	EOG Resources - Midland	<b>TVD Reference:</b>	kb = 25' @ 3679.0usft
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	kb = 25' @ 3679.0usft
<b>Site:</b>	Pretty Good 20 Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	#801H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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)
10,700.0	7.97	72.64	10,610.7	384.9	1,231.3	-201.7	0.00	0.00	0.00
10,800.0	7.97	72.64	10,709.8	389.0	1,244.5	-203.9	0.00	0.00	0.00
10,900.0	7.97	72.64	10,808.8	393.2	1,257.8	-206.1	0.00	0.00	0.00
11,000.0	7.97	72.64	10,907.8	397.3	1,271.0	-208.2	0.00	0.00	0.00
11,100.0	7.97	72.64	11,006.9	401.4	1,284.2	-210.4	0.00	0.00	0.00
11,200.0	7.97	72.64	11,105.9	405.6	1,297.5	-212.6	0.00	0.00	0.00
11,300.0	7.97	72.64	11,204.9	409.7	1,310.7	-214.7	0.00	0.00	0.00
11,400.0	7.97	72.64	11,304.0	413.9	1,324.0	-216.9	0.00	0.00	0.00
11,500.0	7.97	72.64	11,403.0	418.0	1,337.2	-219.1	0.00	0.00	0.00
11,600.0	7.97	72.64	11,502.0	422.1	1,350.4	-221.2	0.00	0.00	0.00
11,700.0	7.97	72.64	11,601.1	426.3	1,363.7	-223.4	0.00	0.00	0.00
11,759.7	7.97	72.64	11,660.2	428.7	1,371.6	-224.7	0.00	0.00	0.00
11,800.0	7.17	72.64	11,700.2	430.3	1,376.6	-225.5	2.00	-2.00	0.00
11,900.0	5.17	72.64	11,799.6	433.5	1,386.9	-227.2	2.00	-2.00	0.00
12,000.0	3.17	72.64	11,899.3	435.7	1,393.8	-228.4	2.00	-2.00	0.00
12,100.0	1.17	72.64	11,999.2	436.8	1,397.4	-228.9	2.00	-2.00	0.00
12,158.3	0.00	0.00	12,057.5	437.0	1,398.0	-229.0	2.00	-2.00	0.00
KOP(Pretty Good 20 Fed Com #801H)									
12,175.0	2.01	180.00	12,074.2	436.7	1,398.0	-228.8	12.00	12.00	0.00
12,200.0	5.01	180.00	12,099.2	435.2	1,398.0	-227.2	12.00	12.00	0.00
12,225.0	8.01	180.00	12,124.0	432.3	1,398.0	-224.4	12.00	12.00	0.00
12,250.0	11.01	180.00	12,148.7	428.2	1,398.0	-220.4	12.00	12.00	0.00
12,275.0	14.01	180.00	12,173.1	422.8	1,398.0	-215.0	12.00	12.00	0.00
12,300.0	17.01	180.00	12,197.1	416.1	1,398.0	-208.4	12.00	12.00	0.00
12,325.0	20.01	180.00	12,220.9	408.2	1,398.0	-200.5	12.00	12.00	0.00
12,350.0	23.01	180.00	12,244.1	399.0	1,398.0	-191.5	12.00	12.00	0.00
12,375.0	26.01	180.00	12,266.9	388.7	1,398.0	-181.2	12.00	12.00	0.00
12,378.7	26.46	180.00	12,270.2	387.0	1,398.0	-179.6	12.00	12.00	0.00
FTP(Pretty Good 20 Fed Com #801H)									
12,400.0	29.01	179.96	12,289.0	377.1	1,398.0	-169.8	12.00	12.00	-0.20
12,425.0	32.01	179.92	12,310.6	364.4	1,398.0	-157.2	12.00	12.00	-0.16
12,450.0	35.01	179.88	12,331.4	350.6	1,398.0	-143.6	12.00	12.00	-0.14
12,475.0	38.01	179.85	12,351.5	335.7	1,398.1	-128.8	12.00	12.00	-0.12
12,500.0	41.01	179.83	12,370.8	319.8	1,398.1	-113.1	12.00	12.00	-0.10
12,525.0	44.01	179.80	12,389.2	302.9	1,398.2	-96.4	12.00	12.00	-0.09
12,550.0	47.01	179.78	12,406.7	285.1	1,398.2	-78.7	12.00	12.00	-0.08
12,575.0	50.01	179.76	12,423.3	266.4	1,398.3	-60.2	12.00	12.00	-0.08
12,600.0	53.01	179.75	12,438.8	246.8	1,398.4	-40.8	12.00	12.00	-0.07
12,625.0	56.01	179.73	12,453.4	226.5	1,398.5	-20.7	12.00	12.00	-0.06
12,650.0	59.01	179.72	12,466.8	205.4	1,398.6	0.2	12.00	12.00	-0.06
12,675.0	62.01	179.70	12,479.1	183.6	1,398.7	21.7	12.00	12.00	-0.06
12,700.0	65.01	179.69	12,490.2	161.3	1,398.8	43.9	12.00	12.00	-0.05
12,725.0	68.01	179.68	12,500.2	138.3	1,398.9	66.6	12.00	12.00	-0.05
12,750.0	71.01	179.66	12,509.0	114.9	1,399.1	89.8	12.00	12.00	-0.05
12,775.0	74.01	179.65	12,516.5	91.1	1,399.2	113.4	12.00	12.00	-0.05
12,800.0	77.01	179.64	12,522.7	66.9	1,399.4	137.3	12.00	12.00	-0.04
12,825.0	80.01	179.63	12,527.7	42.4	1,399.5	161.6	12.00	12.00	-0.04
12,850.0	83.01	179.62	12,531.4	17.7	1,399.7	186.1	12.00	12.00	-0.04
12,875.0	86.01	179.61	12,533.8	-7.2	1,399.9	210.7	12.00	12.00	-0.04
12,900.0	89.01	179.60	12,534.9	-32.2	1,400.0	235.5	12.00	12.00	-0.04
12,908.3	90.00	179.60	12,534.9	-40.4	1,400.1	243.6	12.00	12.00	-0.04
13,000.0	90.00	179.60	12,534.9	-132.2	1,400.7	334.5	0.00	0.00	0.00
13,100.0	90.00	179.60	12,535.0	-232.2	1,401.4	433.5	0.00	0.00	0.00
13,200.0	90.00	179.60	12,535.0	-332.2	1,402.1	532.6	0.00	0.00	0.00

## EOG Resources

## Planning Report



<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well #801H
<b>Company:</b>	EOG Resources - Midland	<b>TVD Reference:</b>	kb = 25' @ 3679.0usft
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	kb = 25' @ 3679.0usft
<b>Site:</b>	Pretty Good 20 Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	#801H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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)
13,300.0	90.00	179.60	12,535.0	-432.2	1,402.9	631.6	0.00	0.00	0.00
13,400.0	90.00	179.60	12,535.0	-532.2	1,403.6	730.6	0.00	0.00	0.00
13,500.0	90.00	179.60	12,535.0	-632.2	1,404.3	829.7	0.00	0.00	0.00
13,600.0	90.00	179.60	12,535.0	-732.2	1,405.0	928.7	0.00	0.00	0.00
13,700.0	90.00	179.60	12,535.0	-832.2	1,405.7	1,027.8	0.00	0.00	0.00
13,800.0	90.00	179.60	12,535.0	-932.2	1,406.4	1,126.8	0.00	0.00	0.00
13,900.0	90.00	179.60	12,535.0	-1,032.2	1,407.1	1,225.8	0.00	0.00	0.00
14,000.0	90.00	179.60	12,535.0	-1,132.2	1,407.8	1,324.9	0.00	0.00	0.00
14,100.0	90.00	179.60	12,535.0	-1,232.2	1,408.5	1,423.9	0.00	0.00	0.00
14,200.0	90.00	179.60	12,535.0	-1,332.2	1,409.2	1,522.9	0.00	0.00	0.00
14,300.0	90.00	179.60	12,535.0	-1,432.2	1,409.9	1,622.0	0.00	0.00	0.00
14,400.0	90.00	179.60	12,535.0	-1,532.2	1,410.6	1,721.0	0.00	0.00	0.00
14,500.0	90.00	179.60	12,535.0	-1,632.2	1,411.3	1,820.1	0.00	0.00	0.00
14,600.0	90.00	179.60	12,535.0	-1,732.2	1,412.0	1,919.1	0.00	0.00	0.00
14,700.0	90.00	179.60	12,535.0	-1,832.1	1,412.7	2,018.1	0.00	0.00	0.00
14,800.0	90.00	179.60	12,535.0	-1,932.1	1,413.4	2,117.2	0.00	0.00	0.00
14,900.0	90.00	179.60	12,535.0	-2,032.1	1,414.1	2,216.2	0.00	0.00	0.00
15,000.0	90.00	179.60	12,535.0	-2,132.1	1,414.9	2,315.2	0.00	0.00	0.00
15,020.9	90.00	179.60	12,535.0	-2,153.0	1,415.0	2,335.9	0.00	0.00	0.00
<b>Fed Perf 1(Pretty Good 20 Fed Com #801H)</b>									
15,021.1	90.00	179.60	12,535.0	-2,153.2	1,415.0	2,336.1	0.00	0.00	0.00
15,100.0	90.00	179.60	12,535.0	-2,232.1	1,415.6	2,414.3	0.00	0.00	0.00
15,200.0	90.00	179.60	12,535.0	-2,332.1	1,416.3	2,513.3	0.00	0.00	0.00
15,300.0	90.00	179.60	12,535.0	-2,432.1	1,417.0	2,612.3	0.00	0.00	0.00
15,400.0	90.00	179.60	12,535.0	-2,532.1	1,417.7	2,711.4	0.00	0.00	0.00
15,500.0	90.00	179.60	12,535.0	-2,632.1	1,418.4	2,810.4	0.00	0.00	0.00
15,600.0	90.00	179.60	12,535.0	-2,732.1	1,419.1	2,909.5	0.00	0.00	0.00
15,700.0	90.00	179.60	12,535.0	-2,832.1	1,419.8	3,008.5	0.00	0.00	0.00
15,800.0	90.00	179.60	12,535.0	-2,932.1	1,420.5	3,107.5	0.00	0.00	0.00
15,900.0	90.00	179.60	12,535.0	-3,032.1	1,421.2	3,206.6	0.00	0.00	0.00
16,000.0	90.00	179.60	12,535.0	-3,132.1	1,421.9	3,305.6	0.00	0.00	0.00
16,100.0	90.00	179.60	12,535.0	-3,232.1	1,422.6	3,404.6	0.00	0.00	0.00
16,200.0	90.00	179.60	12,535.0	-3,332.1	1,423.3	3,503.7	0.00	0.00	0.00
16,300.0	90.00	179.60	12,535.0	-3,432.1	1,424.0	3,602.7	0.00	0.00	0.00
16,400.0	90.00	179.60	12,535.0	-3,532.1	1,424.7	3,701.8	0.00	0.00	0.00
16,500.0	90.00	179.60	12,535.0	-3,632.1	1,425.4	3,800.8	0.00	0.00	0.00
16,600.0	90.00	179.60	12,535.0	-3,732.1	1,426.1	3,899.8	0.00	0.00	0.00
16,700.0	90.00	179.60	12,535.0	-3,832.1	1,426.9	3,998.9	0.00	0.00	0.00
16,800.0	90.00	179.60	12,535.0	-3,932.1	1,427.6	4,097.9	0.00	0.00	0.00
16,900.0	90.00	179.60	12,535.0	-4,032.1	1,428.3	4,196.9	0.00	0.00	0.00
17,000.0	90.00	179.60	12,535.1	-4,132.1	1,429.0	4,296.0	0.00	0.00	0.00
17,100.0	90.00	179.60	12,535.1	-4,232.1	1,429.7	4,395.0	0.00	0.00	0.00
17,200.0	90.00	179.60	12,535.1	-4,332.1	1,430.4	4,494.1	0.00	0.00	0.00
17,300.0	90.00	179.60	12,535.1	-4,432.1	1,431.1	4,593.1	0.00	0.00	0.00
17,400.0	90.00	179.60	12,535.1	-4,532.1	1,431.8	4,692.1	0.00	0.00	0.00
17,500.0	90.00	179.60	12,535.1	-4,632.1	1,432.5	4,791.2	0.00	0.00	0.00
17,600.0	90.00	179.60	12,535.1	-4,732.1	1,433.2	4,890.2	0.00	0.00	0.00
17,700.0	90.00	179.60	12,535.1	-4,832.1	1,433.9	4,989.2	0.00	0.00	0.00
17,800.0	90.00	179.60	12,535.1	-4,932.1	1,434.6	5,088.3	0.00	0.00	0.00
17,900.0	90.00	179.60	12,535.1	-5,032.1	1,435.3	5,187.3	0.00	0.00	0.00
18,000.0	90.00	179.60	12,535.1	-5,132.1	1,436.0	5,286.3	0.00	0.00	0.00
18,100.0	90.00	179.60	12,535.1	-5,232.1	1,436.7	5,385.4	0.00	0.00	0.00
18,200.0	90.00	179.60	12,535.1	-5,332.1	1,437.4	5,484.4	0.00	0.00	0.00

## EOG Resources

## Planning Report



<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well #801H
<b>Company:</b>	EOG Resources - Midland	<b>TVD Reference:</b>	kb = 25' @ 3679.0usft
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	kb = 25' @ 3679.0usft
<b>Site:</b>	Pretty Good 20 Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	#801H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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)
18,300.0	90.00	179.60	12,535.1	-5,432.1	1,438.1	5,583.5	0.00	0.00	0.00
18,400.0	90.00	179.60	12,535.1	-5,532.1	1,438.9	5,682.5	0.00	0.00	0.00
18,500.0	90.00	179.60	12,535.1	-5,632.1	1,439.6	5,781.5	0.00	0.00	0.00
18,600.0	90.00	179.60	12,535.1	-5,732.1	1,440.3	5,880.6	0.00	0.00	0.00
18,700.0	90.00	179.60	12,535.1	-5,832.0	1,441.0	5,979.6	0.00	0.00	0.00
18,800.0	90.00	179.60	12,535.1	-5,932.0	1,441.7	6,078.6	0.00	0.00	0.00
18,900.0	90.00	179.60	12,535.1	-6,032.0	1,442.4	6,177.7	0.00	0.00	0.00
19,000.0	90.00	179.60	12,535.1	-6,132.0	1,443.1	6,276.7	0.00	0.00	0.00
19,100.0	90.00	179.60	12,535.1	-6,232.0	1,443.8	6,375.8	0.00	0.00	0.00
19,200.0	90.00	179.60	12,535.1	-6,332.0	1,444.5	6,474.8	0.00	0.00	0.00
19,300.0	90.00	179.60	12,535.1	-6,432.0	1,445.2	6,573.8	0.00	0.00	0.00
19,400.0	90.00	179.60	12,535.1	-6,532.0	1,445.9	6,672.9	0.00	0.00	0.00
19,500.0	90.00	179.60	12,535.1	-6,632.0	1,446.6	6,771.9	0.00	0.00	0.00
19,600.0	90.00	179.60	12,535.1	-6,732.0	1,447.3	6,870.9	0.00	0.00	0.00
19,700.0	90.00	179.60	12,535.1	-6,832.0	1,448.0	6,970.0	0.00	0.00	0.00
19,800.0	90.00	179.60	12,535.1	-6,932.0	1,448.7	7,069.0	0.00	0.00	0.00
19,900.0	90.00	179.60	12,535.1	-7,032.0	1,449.4	7,168.1	0.00	0.00	0.00
20,000.0	90.00	179.60	12,535.1	-7,132.0	1,450.1	7,267.1	0.00	0.00	0.00
20,100.0	90.00	179.60	12,535.1	-7,232.0	1,450.9	7,366.1	0.00	0.00	0.00
20,200.0	90.00	179.60	12,535.1	-7,332.0	1,451.6	7,465.2	0.00	0.00	0.00
20,300.0	90.00	179.60	12,535.1	-7,432.0	1,452.3	7,564.2	0.00	0.00	0.00
20,400.0	90.00	179.60	12,535.1	-7,532.0	1,453.0	7,663.2	0.00	0.00	0.00
20,500.0	90.00	179.60	12,535.1	-7,632.0	1,453.7	7,762.3	0.00	0.00	0.00
20,600.0	90.00	179.60	12,535.1	-7,732.0	1,454.4	7,861.3	0.00	0.00	0.00
20,700.0	90.00	179.60	12,535.1	-7,832.0	1,455.1	7,960.3	0.00	0.00	0.00
20,800.0	90.00	179.60	12,535.1	-7,932.0	1,455.8	8,059.4	0.00	0.00	0.00
20,900.0	90.00	179.60	12,535.2	-8,032.0	1,456.5	8,158.4	0.00	0.00	0.00
21,000.0	90.00	179.60	12,535.2	-8,132.0	1,457.2	8,257.5	0.00	0.00	0.00
21,100.0	90.00	179.60	12,535.2	-8,232.0	1,457.9	8,356.5	0.00	0.00	0.00
21,200.0	90.00	179.60	12,535.2	-8,332.0	1,458.6	8,455.5	0.00	0.00	0.00
21,300.0	90.00	179.60	12,535.2	-8,432.0	1,459.3	8,554.6	0.00	0.00	0.00
21,400.0	90.00	179.60	12,535.2	-8,532.0	1,460.0	8,653.6	0.00	0.00	0.00
21,500.0	90.00	179.60	12,535.2	-8,632.0	1,460.7	8,752.6	0.00	0.00	0.00
21,600.0	90.00	179.60	12,535.2	-8,732.0	1,461.4	8,851.7	0.00	0.00	0.00
21,700.0	90.00	179.60	12,535.2	-8,832.0	1,462.1	8,950.7	0.00	0.00	0.00
21,800.0	90.00	179.60	12,535.2	-8,932.0	1,462.9	9,049.8	0.00	0.00	0.00
21,900.0	90.00	179.60	12,535.2	-9,032.0	1,463.6	9,148.8	0.00	0.00	0.00
22,000.0	90.00	179.60	12,535.2	-9,132.0	1,464.3	9,247.8	0.00	0.00	0.00
22,100.0	90.00	179.60	12,535.2	-9,232.0	1,465.0	9,346.9	0.00	0.00	0.00
22,200.0	90.00	179.60	12,535.2	-9,332.0	1,465.7	9,445.9	0.00	0.00	0.00
22,300.0	90.00	179.60	12,535.2	-9,432.0	1,466.4	9,544.9	0.00	0.00	0.00
22,400.0	90.00	179.60	12,535.2	-9,532.0	1,467.1	9,644.0	0.00	0.00	0.00
22,500.0	90.00	179.60	12,535.2	-9,632.0	1,467.8	9,743.0	0.00	0.00	0.00
22,600.0	90.00	179.60	12,535.2	-9,732.0	1,468.5	9,842.1	0.00	0.00	0.00
22,700.0	90.00	179.60	12,535.2	-9,832.0	1,469.2	9,941.1	0.00	0.00	0.00
22,800.0	90.00	179.60	12,535.2	-9,931.9	1,469.9	10,040.1	0.00	0.00	0.00
22,848.0	90.00	179.60	12,535.0	-9,980.0	1,467.0	10,087.2	0.00	0.00	0.00
PBHL(Pretty Good 20 Fed Com #801H)									

## EOG Resources

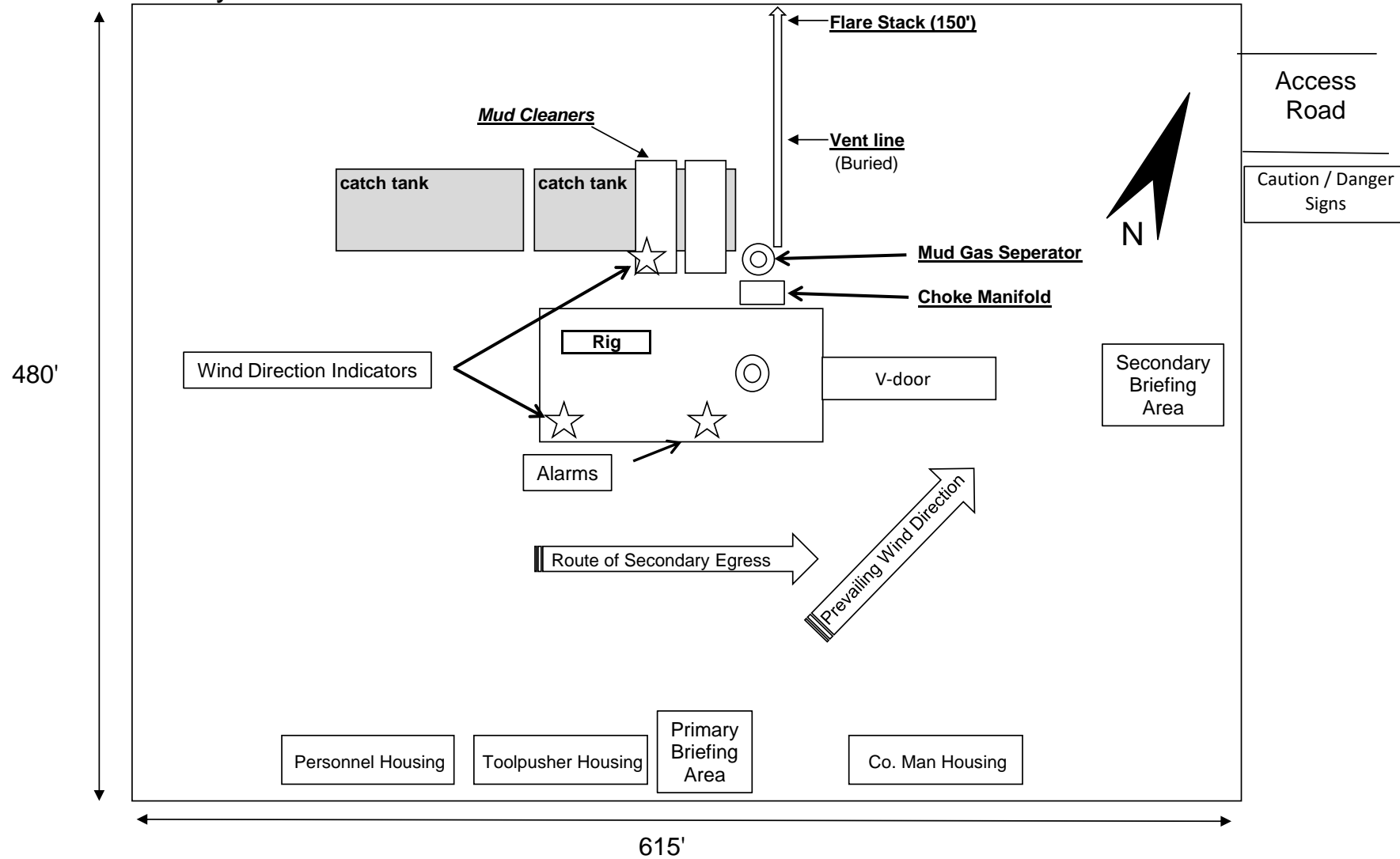
## Planning Report



<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well #801H
<b>Company:</b>	EOG Resources - Midland	<b>TVD Reference:</b>	kb = 25' @ 3679.0usft
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	kb = 25' @ 3679.0usft
<b>Site:</b>	Pretty Good 20 Fed Com	<b>North Reference:</b>	Grid
<b>Well:</b>	#801H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #0.1 RT		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
KOP(Pretty Good 20 Fed - plan hits target center - Point	0.00	0.00	12,057.5	437.0	1,398.0	504,115.00	739,818.00	32.3842414°N	103.6903589°W
FTP(Pretty Good 20 Fed - plan hits target center - Point	0.00	0.00	12,270.2	387.0	1,398.0	504,065.00	739,818.00	32.3841039°N	103.6903599°W
Fed Perf 1(Pretty Good : - plan hits target center - Point	0.00	0.00	12,535.0	-2,153.0	1,415.0	501,525.00	739,835.00	32.3771220°N	103.6903543°W
PBHL(Pretty Good 20 Fed - plan hits target center - Point	0.00	0.00	12,535.0	-9,980.0	1,467.0	493,698.00	739,887.00	32.3556073°N	103.6903381°W

Exhibit 4  
EOG Resources  
Well Site Diagram  
Pretty Good 20 Fed Com #801H





**EOG RESOURCES, INC.  
PRETTY GOOD 20 FED COM #801H**

**1. GEOLOGIC NAME OF SURFACE FORMATION:**

Permian

**2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:**

Rustler	857'
Tamarisk Anhydrite	949'
Top of Salt	1,263'
Base of Salt	4,404'
Lamar	4,749'
Bell Canyon	4,785'
Cherry Canyon	5,629'
Brushy Canyon	6,902'
Bone Spring Lime	8,625'
Leonard A Shale	8,769'
Leonard B Shale	9,009'
1 <sup>st</sup> Bone Spring Sand	9,711'
2 <sup>nd</sup> Bone Spring Shale	9,950'
2 <sup>nd</sup> Bone Spring Sand	10,331'
3 <sup>rd</sup> Bone Spring Carb	10,862'
3 <sup>rd</sup> Bone Spring Sand	11,475'
Wolfcamp	11,818'
TD	12,535'

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

Upper Permian Sands	0- 400'	Fresh Water
Cherry Canyon	5,629'	Oil
Brushy Canyon	6,902'	Oil
Leonard A Shale	8,769'	Oil
Leonard B Shale	9,009'	Oil
1 <sup>st</sup> Bone Spring Sand	9,711'	Oil
2 <sup>nd</sup> Bone Spring Shale	9,950'	Oil
2 <sup>nd</sup> Bone Spring Sand	10,331'	Oil
3 <sup>rd</sup> Bone Spring Carb	10,862'	Oil
3 <sup>rd</sup> Bone Spring Sand	11,475'	Oil
Wolfcamp	11,818'	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 9.625" casing at 980' and circulating cement back to surface.

**EOG RESOURCES, INC.  
PRETTY GOOD 20 FED COM #801H**

**4. CASING PROGRAM - NEW**

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF <sub>min</sub> Collapse	DF <sub>min</sub> Burst	DF <sub>min</sub> Tension
12.25"	0' – 980'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
8.75"	0' – 10,970'	7.625"	29.7#	HCP-110	FXL	1.125	1.25	1.60
6.75"	0' – 10,470'	5.5"	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.60
6.75"	10,470'–10,970'	5.5"	20#	P-110EC	VAM SFC	1.125	1.25	1.60
6.75"	10,970' – 22,848'	5.5"	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.60

Variance is requested to waive the centralizer requirements for the 7-5/8" casing in the 8-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 8-3/4" 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 6-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive the annular clearance requirements for the 5-1/2" casing by 7-5/8" casing annulus to the proposed top of cement.

EOG requests permission to allow deviation from the 0.422" annulus clearance requirement from Onshore Order #2 under the following conditions:

- Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casing strings.
- Annular clearance less than 0.422" is acceptable for the production open hole section.

**Cementing Program:**

Depth	No. Sacks	Wt. ppg	Yld Ft <sup>3</sup> /sk	Slurry Description
980' 9-5/8"	830	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl <sub>2</sub> + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	90	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 780')
10,970' 7-5/8"	490	14.2	1.11	1 <sup>st</sup> Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 6,900')
	1,000	12.7	2.30	2 <sup>nd</sup> Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
22,848' 5-1/2"	1,070	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,470')

**EOG RESOURCES, INC.  
PRETTY GOOD 20 FED COM #801H**

<b>Additive</b>	<b>Purpose</b>
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

EOG requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (6,902') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of 1,000 sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. Once cement circulates to surface drilling operations to drill out of the intermediate shoe will proceed (per clarification from BLM 4/21/2020). The final cement top will be verified by Echo-meter.

EOG will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

EOG will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

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.

**EOG RESOURCES, INC.  
PRETTY GOOD 20 FED COM #801H**

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.

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.

**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.

<b>Depth</b>	<b>Type</b>	<b>Weight (ppg)</b>	<b>Viscosity</b>	<b>Water Loss</b>
0 – 980'	Fresh - Gel	8.6-8.8	28-34	N/c
980' – 10,970'	Brine	10.0-10.2	28-34	N/c
10,970' – 12,158'	Oil Base	8.7-9.4	58-68	N/c - 6
12,158' – 22,848' Lateral	Oil Base	10.0-14.0	58-68	3 - 6

The highest mud weight needed to balance formation is expected to be 11.5 ppg. In order to maintain hole stability, mud weights up to 14.0 ppg may be 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.

**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) H<sub>2</sub>S monitoring and detection equipment will be utilized from surface casing point to TD.

**EOG RESOURCES, INC.  
PRETTY GOOD 20 FED COM #801H**

**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 181 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 9,115 psig and a maximum anticipated surface pressure of 6,358 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 6,902' 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.

(A) 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 1000 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 9-5/8" surface casing, a 9-5/8" 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.

**EOG RESOURCES, INC.  
PRETTY GOOD 20 FED COM #801H**

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 1500 psi, whichever is greater.

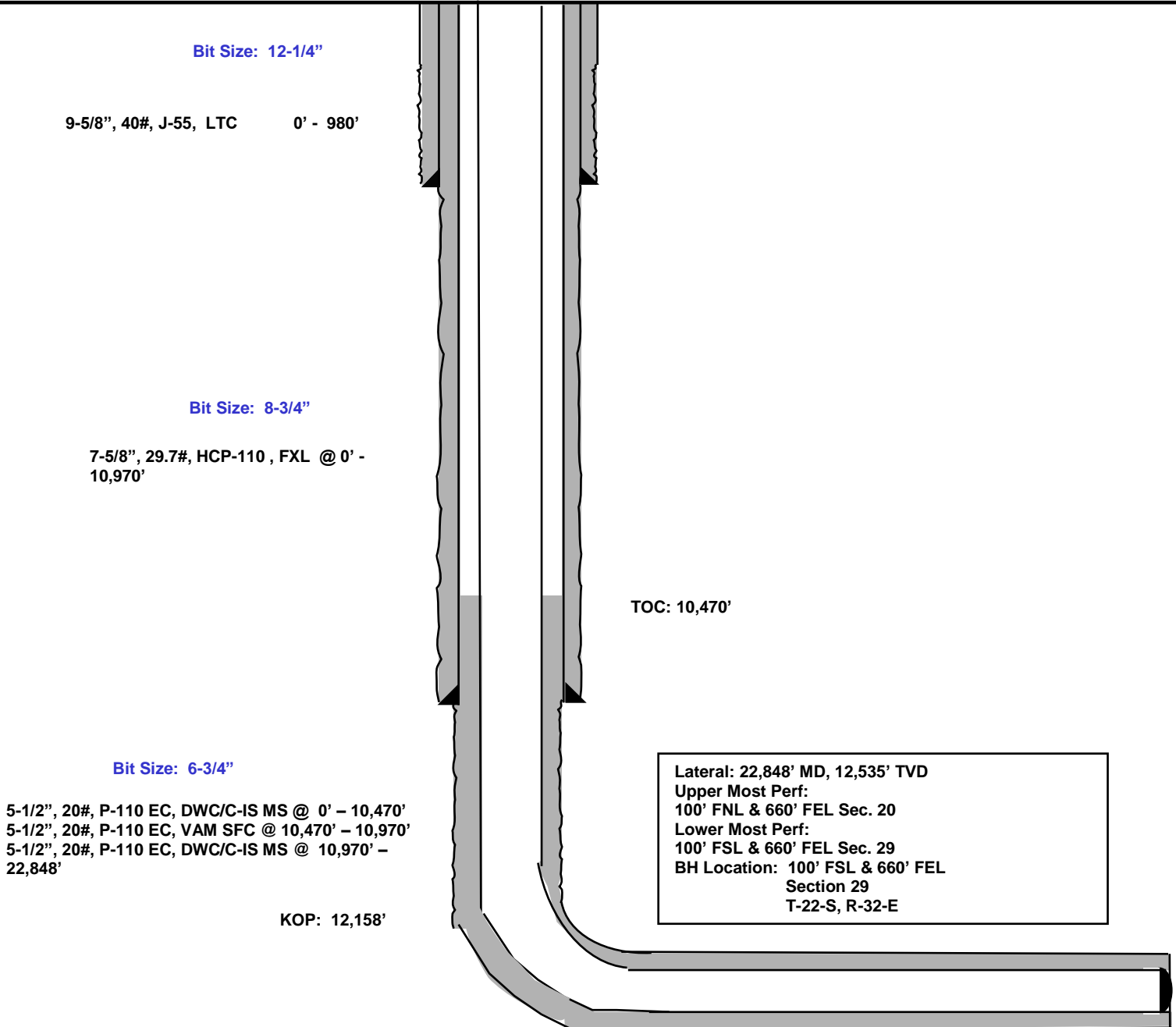
EOG RESOURCES, INC.  
PRETTY GOOD 20 FED COM #801H

473' FNL  
2,061' FEL  
Section 20  
T-22-S, R-32-E

Proposed Wellbore

KB: 3,679'  
GL: 3,654'

API: 30-025-\*\*\*\*\*





<b>Metal One Corp.</b>  <b>Metal One</b>	<b>MO-FXL</b>  <b>Connection Data Sheet</b>	Page	MCTP	
		Date	3-Nov-16	
		Rev.	0	

**MO-FXL**

**Geometry**

Imperial

S.I.

**Pipe Body**

Grade	P110HC *1		P110HC *1	
Pipe OD ( D )	7 5/8	in	193.68	mm
Weight	29.70	lb/ft	44.25	kg/m
Actual weight	29.04		43.26	kg/m
Wall Thickness ( t )	0.375	in	9.53	mm
Pipe ID ( d )	6.875	in	174.63	mm
Pipe body cross section	8.537	in <sup>2</sup>	5,508	mm <sup>2</sup>
Drift Dia.	6.750	in	171.45	mm

**Connection**

Box OD ( W )	7.625	in	193.68	mm
PIN ID	6.875	in	174.63	mm
Make up Loss	4.219	in	107.16	mm
Box Critical Area	5.714	in <sup>2</sup>	3686	mm <sup>2</sup>
Joint load efficiency	70	%	70	%
Thread Taper	1 / 10 ( 1.2" per ft )			
Number of Threads	5 TPI			

**Performance**

**Performance Properties for Pipe Body**

S.M.Y.S. *1	1,067	kips	4,747	kN
M.I.Y.P. *1	10,760	psi	74.21	MPa
Collapse Strength *1	7,360	psi	50.76	MPa

Note S.M.Y.S.= Specified Minimum YIELD Strength of Pipe body  
 M.I.Y.P. = Minimum Internal Yield Pressure of Pipe body  
 \*1 Based on VSB P110HC (YS=125~140ksi)

**Performance Properties for Connection**

Tensile Yield load	747	kips ( 70% of S.M.Y.S. )		
Min. Compression Yield	747	kips ( 70% of S.M.Y.S. )		
Internal Pressure	8,610	psi ( 80% of M.I.Y.P. )		
External Pressure	100% of Collapse Strength			
Max. DLS ( deg. /100ft)	40			

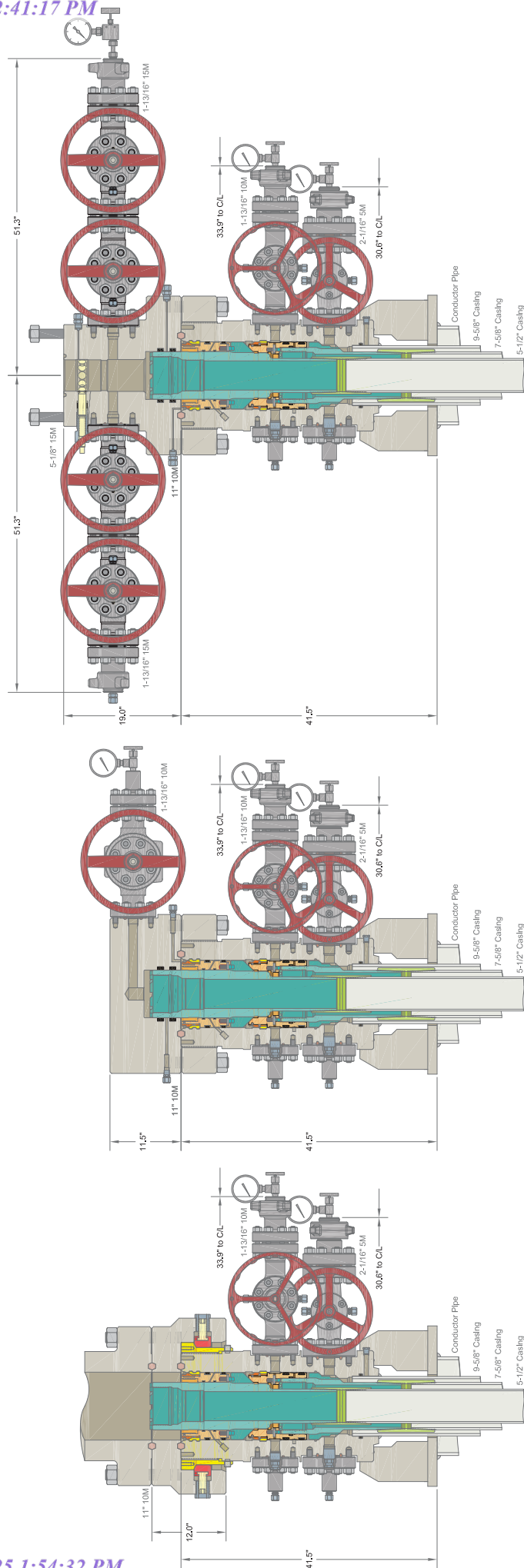
**Recommended Torque**

Min.	15,500	ft-lb	21,000	N-m
Opti.	17,200	ft-lb	23,300	N-m
Max.	18,900	ft-lb	25,600	N-m
Operational Max.	23,600	ft-lb	32,000	N-m

Note : Operational Max. torque can be applied for high torque application

The diagram illustrates the MO-FXL connection geometry. It shows a vertical pipe section with a threaded box end. Key dimensions and areas are labeled: 'Make up loss' is the length of the threaded section; 'Box critical area' is the area of the box end; 'Pin critical area' is the area of the pin end; 'd' is the pin ID; and 'D' is the box OD. Arrows indicate the direction of measurement for each parameter.



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ALL DIMENSIONS APPROXIMATE

EOG RESOURCES  
DELAWARE

CACTUS WELLHEAD LLC

20" x 9-5/8" x 7-5/8" x 5-1/2" MBU-T-SF SOW Wellhead System  
With 11" 10M x 5-1/8" 15M CMT-DBLHPS-SB Tubing Head,  
Mandrel Hangers, Quick Connect Drilling Adapter And TA Cap

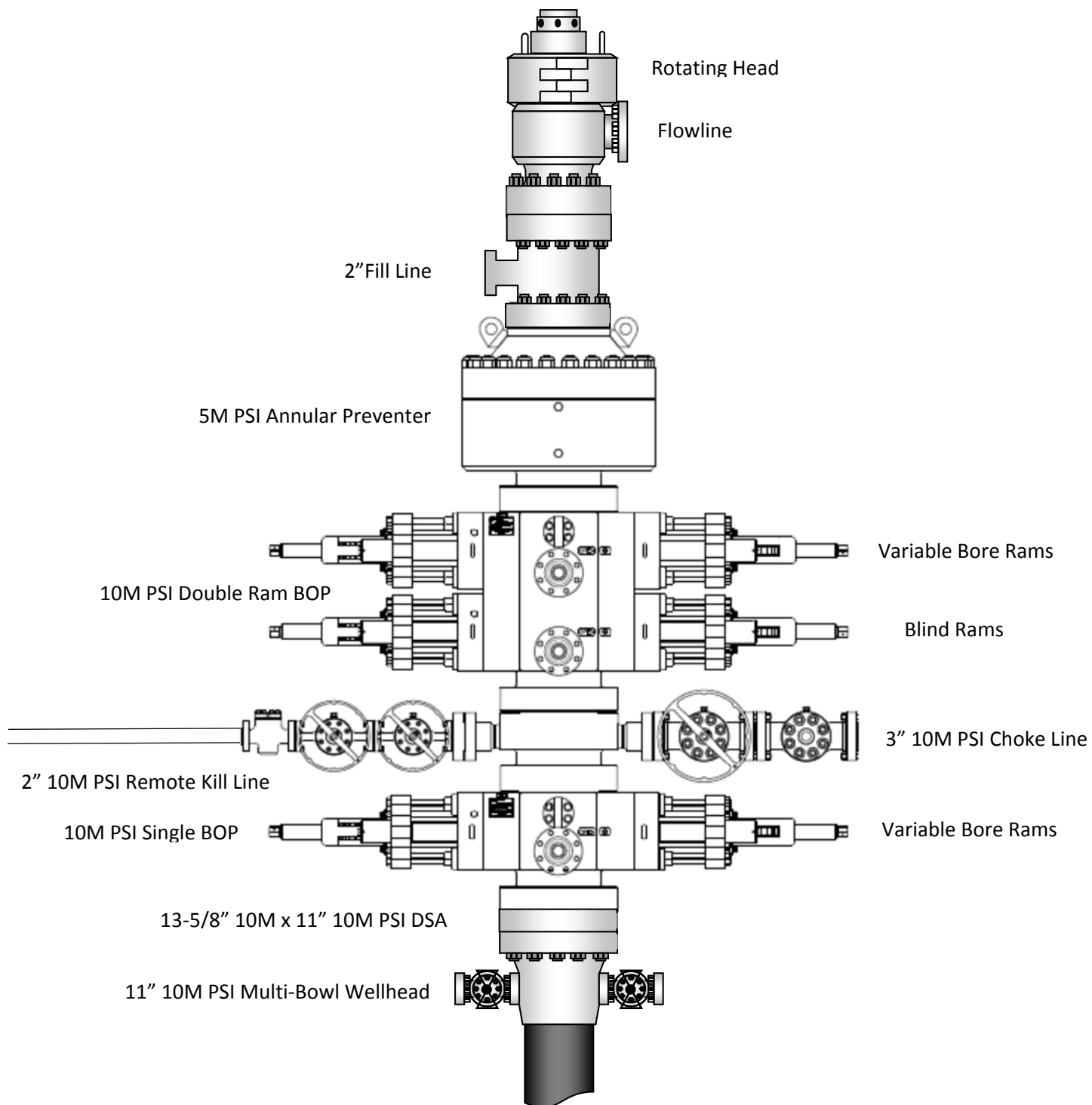
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DRAWING NO. HBE0000010

# Exhibit 1

## EOG Resources

### 11" 10M PSI BOP Stack



## Hose Inspection Report

ContiTech Oil &amp; Marine

Customer	Customer Reference #	CBC Reference #	CBC Inspector	Date of Inspection
H&P Drilling	740021604	COM906112	A. Jaimes	10/17/2016

Hose Manufacturer	Contitech Rubber Industrial
-------------------	-----------------------------

Hose Serial #	62429	Date of Manufacture	05/2012
Hose I.D.	3"	Working Pressure	10000PSI
Hose Type	Choke and Kill	Test Pressure	15000PSI
Manufacturing Standard	API 16C		

## Connections

End A: 3.1/16" 10Kpsi API Spec 6A Type 6BX Flange	End B: 3.1/16" 10Kpsi API Spec 6A Type 6BX Flange
• No damage	• No damage
Material: Carbon Steel	Material: Carbon Steel
Seal Face: BX154	Seal Face: BX154
Length Before Hydro Test: 16'	Length After Hydro test: 16'

**Conclusion:** Hose #62429 passed the external inspection with no notable damages to the hose armor. Internal borescope of the hose showed no damage to the hose liner. Hose #62429 passed the hydrostatic pressure test by holding a pressure of 15,000PSI for 60 minutes. Hose #62429 is suitable for continued service.

**Recommendations:** In general the hose should be inspected on a regular on-going basis. The frequency and degree of the inspection should as a minimum follow these guidelines:

Visual inspection: Every 3 months (or during installation/removal)  
 Annual: In-situ pressure test  
 Initial 5 years service: Major inspection  
 2nd Major inspection: 8 / 10 years of service  
 (Detailed description of test regime available upon request, ISS-059 Rev 04)

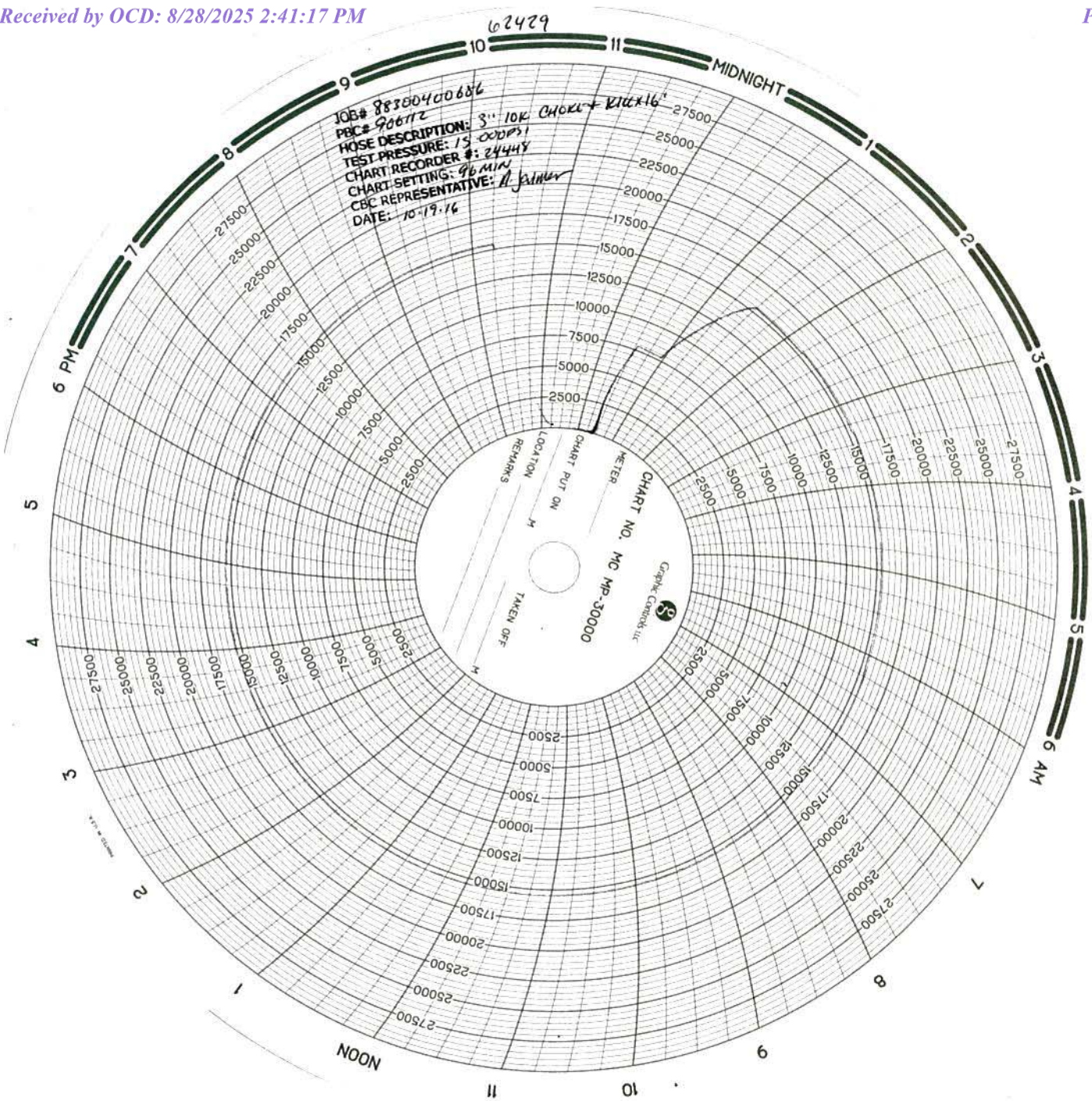
**\*\*NOTE:** There are a number of critical elements in the hose that cannot be thoroughly checked through standard inspection techniques. Away from dissecting the hose body, the best way to evaluate the condition of the hose is through review of the operating conditions recorded during the hose service life, in particular maximums and peak conditions.

Issued By: Alejandro Jaimes  
 Date: 10/25/2016

Checked By: Jeremy Mckay  
 Date: 10/25/2016  
 QF97

Page 1 of 1





## 10,000 PSI BOP Annular Variance Request

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.

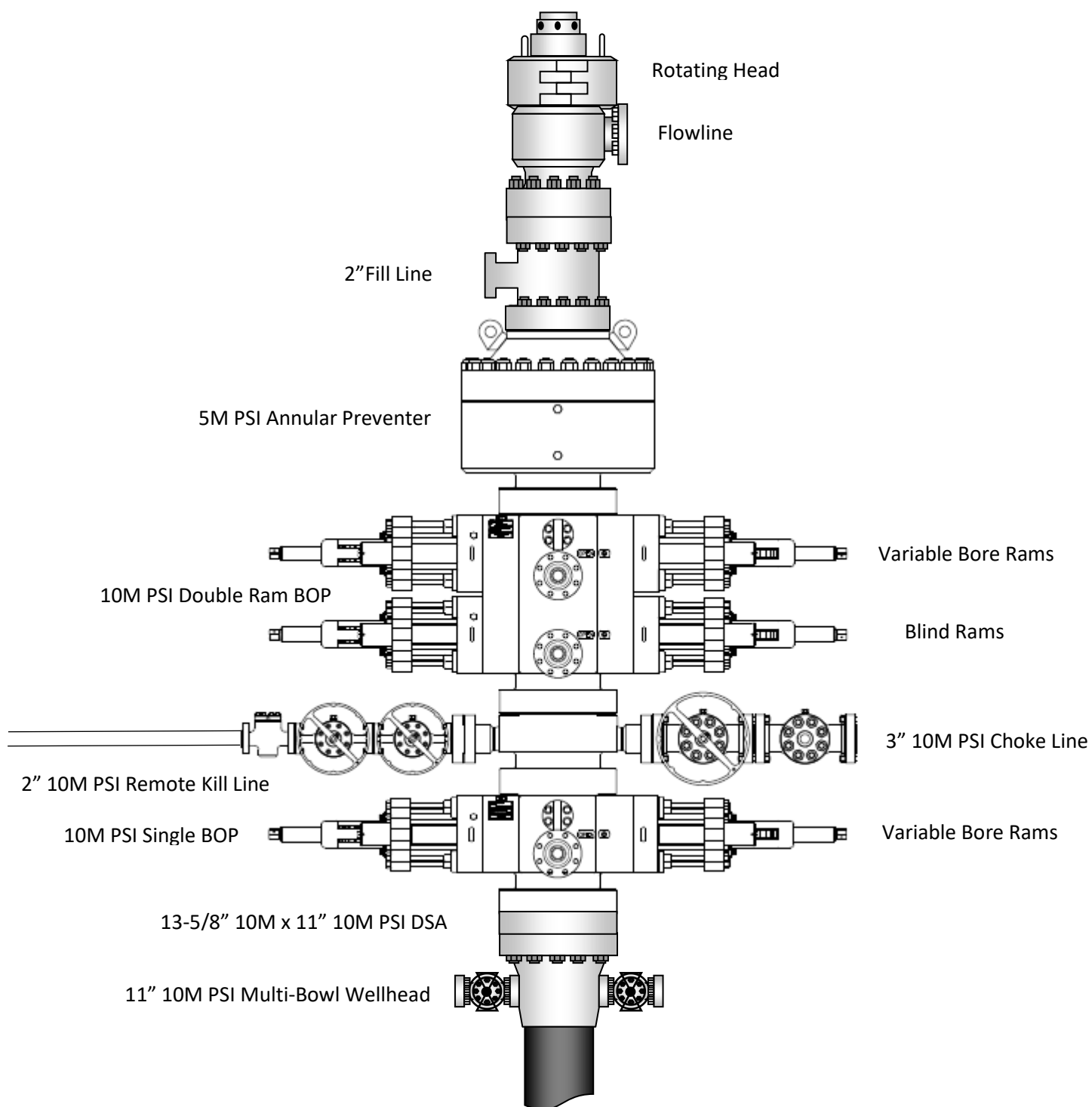
9-7/8" & 8-3/4" Intermediate Hole Section 10M psi requirement					
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP
Drillpipe	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
HWDP	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
Jars	4.500"	Annular	5M	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	-	-
Intermediate casing	7.625"	Annular	5M	-	-
Open-hole	-	Blind Rams	10M	-	-

6-3/4" Production Hole Section 10M psi requirement					
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP
Drillpipe	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
HWDP	4.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
DCs and MWD tools	4.750 – 5.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
Mud Motor	4.750 – 5.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
Mud Motor	5.500 – 5.750"	Annular	5M	-	-
Production casing	5.500"	Annular	5M	Upper 3.5 - 5.5" VBR Lower 3.5 - 5.5" VBR	10M 10M
Open-hole	-	Blind Rams	10M	-	-

VBR = Variable Bore Ram

## EOG Resources

### 11" 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



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

# SUPO Data Report

01/08/2025

APD ID: 10400062665

Submission Date: 10/02/2020

Operator Name: EOG RESOURCES INCORPORATED

Well Name: PRETTY GOOD 20 FED COM

Well Number: 801H

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:

Pretty\_Good\_20\_Fed\_Com\_Vicinity\_Map\_801H\_20201001091724.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:

PRETTY\_GOOD\_20\_FC\_ACCESS\_ROADS\_20200922144824.pdf

PRETTY\_GOOD\_20\_FC\_INFRASTRUCTURE\_MAP\_20200922144812.pdf

New road type: RESOURCE

Length: 653 Feet

Width (ft.): 30

Max slope (%): 2

Max grade (%): 5

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 30

**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:** PRETTY GOOD 20 FED COM**Well Number:** 801H**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" 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**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**Attach Well map:**

Pretty\_Good\_20\_Fed\_Com\_Radius\_Map\_801H\_20201001091807.pdf

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

**Submit or defer a Proposed Production Facilities plan?** SUBMIT**Production Facilities description:** Pretty Good 20 Fed Com CTB located in NW/4 of Sec 20.**Production Facilities map:**

PRETTY\_GOOD\_20\_FC\_FL\_DETAIL\_SEC20\_20200922150941.pdf

PRETTY\_GOOD\_20\_FC\_INFRASTRUCTURE\_MAP\_20200922150904.pdf

**Operator Name:** EOG RESOURCES INCORPORATED**Well Name:** PRETTY GOOD 20 FED COM**Well Number:** 801H

PRETTY\_GOOD\_20\_FED\_COM\_CTB\_700\_SITE\_20200922150911.pdf

PRETTY\_GOOD\_20\_FC\_FL\_802H\_801H\_1201H\_SEC20\_20201001092215.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. This location will be drilled using a c (outlined in the drilling program). The water will be obtained in the area or recycled treated water and hauled to local using existing and proposed roads depicted on the property. In these cases where a poly pipeline is used to transport fr proper authorizations will be secured by the contractor.

**Source latitude:****Source longitude:****Source datum:****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

Pretty\_Good\_20\_Fed\_Com\_Water\_and\_Caliche\_20200922151129.pdf

**Water source comments:****New water well?** N

### New Water Well Info

**Well latitude:****Well Longitude:****Well datum:****Well target aquifer:****Est. depth to top of aquifer(ft):****Est thickness of aquifer:****Aquifer comments:****Aquifer documentation:**

**Operator Name:** EOG RESOURCES INCORPORATED**Well Name:** PRETTY GOOD 20 FED COM**Well Number:** 801H**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**

Pretty\_Good\_20\_Fed\_Com\_Water\_and\_Caliche\_20200922151834.pdf

## Section 7 - Methods for Handling

**Waste type:** DRILLING

**Waste content description:** Drill fluids and produced oil and water from the well during drilling and completion operations will be stored safely and disposed of properly in an NMOCD approved disposal facility. Garbage and trash produced during drilling and completion operations will be collected in a trash container and disposed of properly. Human waste and grey water will be properly contained of and disposed of properly. 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.

**Amount of waste:** 0 barrels**Waste disposal frequency :** Daily**Safe containment description:** Steel Tanks**Safe containmant attachment:**



**Operator Name:** EOG RESOURCES INCORPORATED**Well Name:** PRETTY GOOD 20 FED COM**Well Number:** 801H**Waste disposal type:** HAUL TO COMMERCIAL FACILITY**Disposal location ownership:** COMMERCIAL**Disposal type description:****Disposal location description:** Trucked to NMOCD approved disposal facility

### Reserve Pit

**Reserve Pit being used?** NO**Temporary disposal of produced water into reserve pit?** NO**Reserve pit length (ft.)****Reserve pit width (ft.)****Reserve pit depth (ft.)****Reserve pit volume (cu. yd.)****Is at least 50% of the reserve pit in cut?****Reserve pit liner****Reserve pit liner specifications and installation description**

### Cuttings Area

**Cuttings Area being used?** NO**Are you storing cuttings on location?** Y**Description of cuttings location** Closed Loop System. Drill cuttings will be disposed of into steel tanks and taken to an NMOCD approved disposal facility.**Cuttings area length (ft.)****Cuttings area width (ft.)****Cuttings area depth (ft.)****Cuttings area volume (cu. yd.)****Is at least 50% of the cuttings area in cut?****WCuttings area liner****Cuttings area liner specifications and installation description**

### Section 8 - Ancillary

**Are you requesting any Ancillary Facilities?:** N**Ancillary Facilities****Comments:**

**Operator Name:** EOG RESOURCES INCORPORATED**Well Name:** PRETTY GOOD 20 FED COM**Well Number:** 801H

## Section 9 - Well Site

### Well Site Layout Diagram:

Pretty\_Good\_20\_Fed\_Com\_801H\_Rig\_Layout\_20201001093815.pdf

Pretty\_Good\_20\_Fed\_Com\_Padsite\_801H\_20201001093816.pdf

Pretty\_Good\_20\_Fed\_Com\_Wellsite\_801H\_20201001093820.pdf

PrettyGood20FEDCOM\_PadB\_20201001093821.pdf

**Comments:** Wellsite-Exhibit 2A, Padsite-Exhibit 2B, Rig Layout-Exhibit 4 Cut and Fill-Exhibit 6, 6A and 6B

## Section 10 - Plans for Surface Reclamation

**Type of disturbance:** New Surface Disturbance**Multiple Well Pad Name:** PRETTY GOOD 20 FED COM**Multiple Well Pad Number:** 801H/802H/1201H

### Recontouring

Pretty\_Good\_20\_Fed\_Com\_Reclamation\_Diagram\_801H\_20201001093857.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.

<b>Well pad proposed disturbance (acres):</b> 0	<b>Well pad interim reclamation (acres):</b> 0	<b>Well pad long term disturbance (acres):</b> 0
<b>Road proposed disturbance (acres):</b> 0	<b>Road interim reclamation (acres):</b> 0	<b>Road long term disturbance (acres):</b> 0
<b>Powerline proposed disturbance (acres):</b> 0	<b>Powerline interim reclamation (acres):</b> 0	<b>Powerline long term disturbance (acres):</b> 0
<b>Pipeline proposed disturbance (acres):</b> 0	<b>Pipeline interim reclamation (acres):</b> 0	<b>Pipeline long term disturbance (acres):</b> 0
<b>Other proposed disturbance (acres):</b> 0	<b>Other interim reclamation (acres):</b> 0	<b>Other long term disturbance (acres):</b> 0
<b>Total proposed disturbance:</b> 0	<b>Total interim reclamation:</b> 0	<b>Total long term disturbance:</b> 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:** PRETTY GOOD 20 FED COM**Well Number:** 801H

**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****Will seed be harvested for use in site reclamation?** N**Seed harvest description:****Seed harvest description attachment:**

**Operator Name:** EOG RESOURCES INCORPORATED**Well Name:** PRETTY GOOD 20 FED COM**Well Number:** 801H**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:** NA**Pit closure attachment:****Section 11 - Surface Ownership****Disturbance type:** WELL PAD**Describe:****Surface Owner:** BUREAU OF LAND MANAGEMENT**Other surface owner description:****BIA Local Office:**

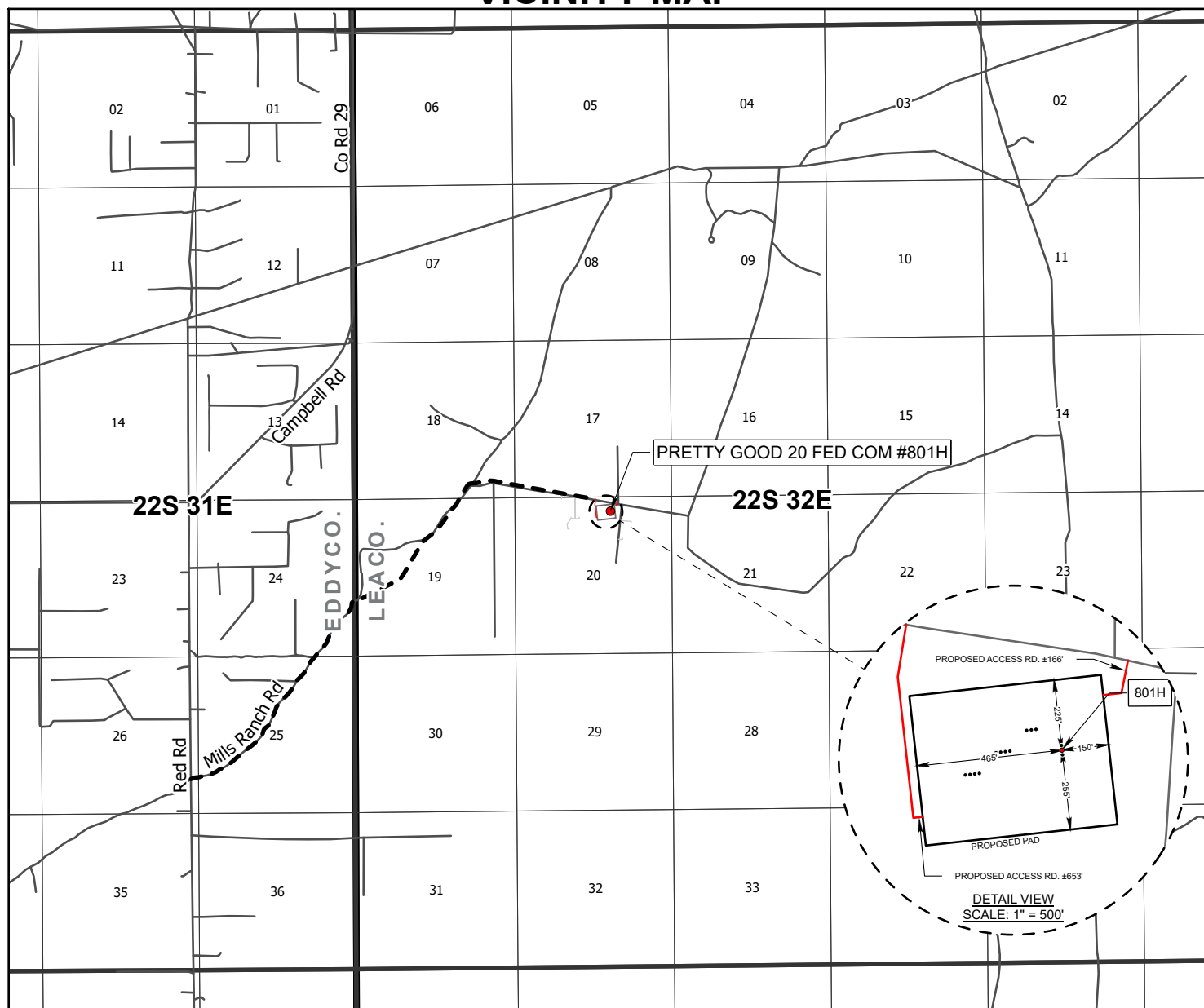
**Operator Name:** EOG RESOURCES INCORPORATED**Well Name:** PRETTY GOOD 20 FED COM**Well Number:** 801H**BOR Local Office:****COE Local Office:****DOD Local Office:****NPS Local Office:****State Local Office:****Military Local Office:****USFWS Local Office:****Other Local Office:****USFS Region:****USFS Forest/Grassland:****USFS Ranger District:****Section 12 - Other****Right of Way needed?** N**Use APD as ROW?****ROW Type(s):****ROW****SUPO Additional Information:** See attached SUPO Plan.**Use a previously conducted onsite?** N**Previous Onsite information:****Other SUPO**

Pretty\_Good\_20\_Fed\_Com\_Location\_Map\_801H\_20201001093911.pdf

SUPO\_PRETTY\_GOOD\_20\_FED\_COM\_801H\_20201001093921.pdf

CONFIDENTIAL

# EXHIBIT 2 VICINITY MAP



LEASE NAME & WELL NO.: PRETTY GOOD 20 FED COM #801H  
 LATITUDE: N 32.383062 LONG: W 103.694896 ELEVATION: 3654'

SECTION: 20 TWP: 22S RGE: 32E SURVEY: N.M.P.M.  
 COUNTY: LEA STATE: NM

DESCRIPTION: 473' FNL & 2061' FEL

## DISTANCE & DIRECTION:

FROM INT. RED ROAD & MILLS RANCH ROAD, GO NORTHEAST ON MILLS RANCH ROAD  $\pm 2.69$  MILES;  
 THENCE EAST (RIGHT) ON LEASE ROAD  $\pm 0.83$  MILES; THENCE SOUTH (RIGHT) ON A PROPOSED  
 ROAD  $\pm 653$  FEET TO THE EDGE OF PAD.  
 (PROPOSED ACCESS ROAD LENGTH = 653')

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

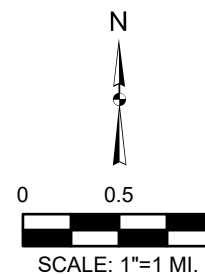


JOB No.: EOG\_B200016

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.

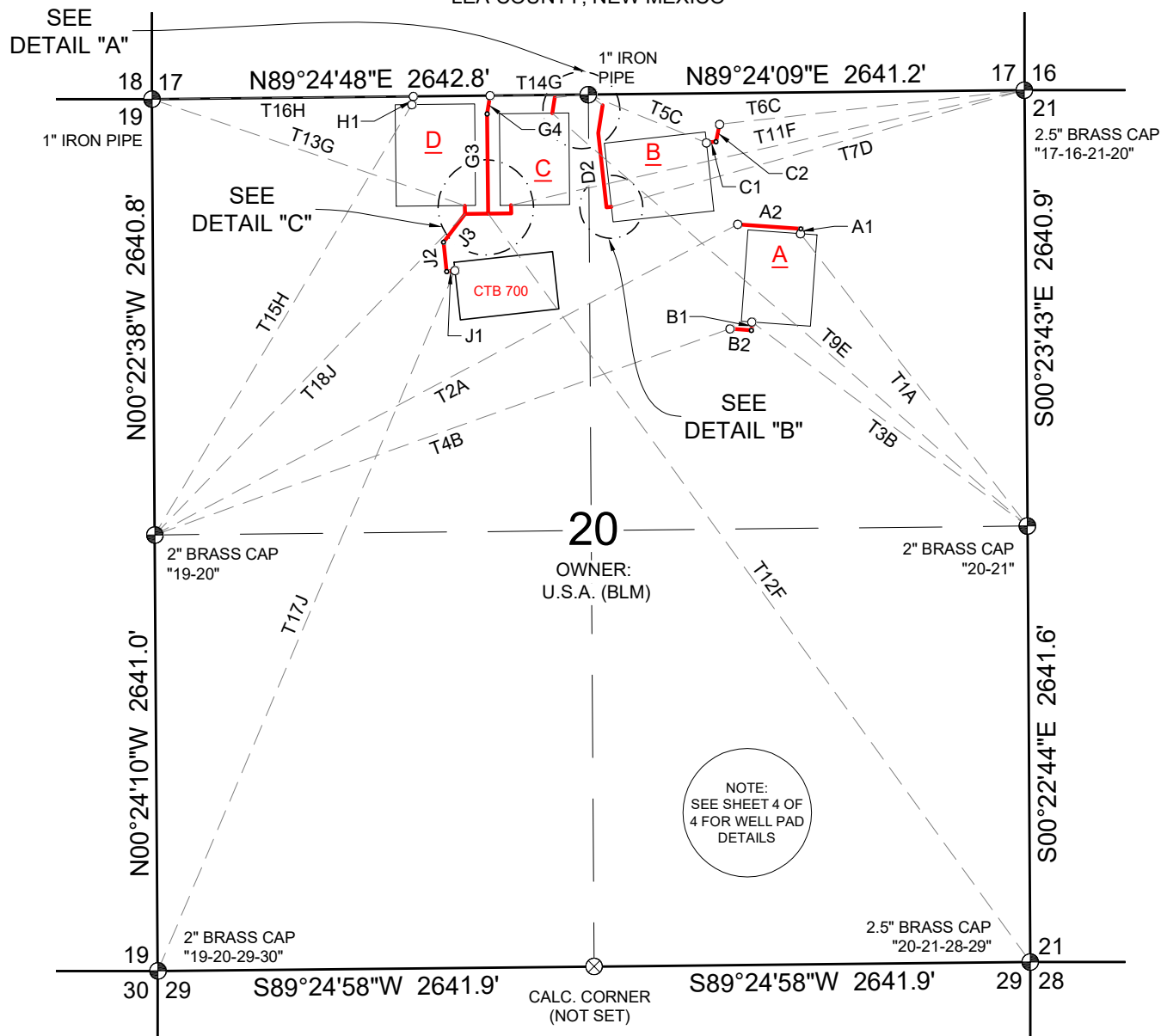
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 MIDLAND, TEXAS 79703  
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 WWW.ASCENTGEOMATICS.COM



# SECTION 20, TOWNSHIP 22 SOUTH, RANGE 32 EAST, LEA COUNTY, NEW MEXICO



## PRETTY GOOD 20 FC ACCESS ROADS

### CENTERLINE DESCRIPTION

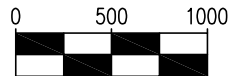
A STRIP OF LAND 30 FEET IN WIDTH AND 3097.6 FEET, 187.7 RODS OR 0.59 MILES IN LENGTH, SITUATED IN SECTION 20, TOWNSHIP 22 SOUTH, RANGE 32 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AND BEING 15 FEET LEFT AND 15 FEET RIGHT OF THE SURVEY OF CENTERLINE AS SHOWN HEREON.

#### ACCESS ROADS

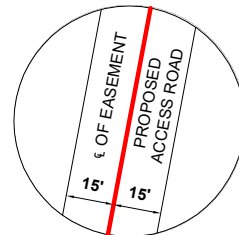
- POINT FOR CORNER
- POINT FOR BEGIN/END
- ⊕ FOUND MONUMENT AS SHOWN
- ⊗ CALCULATED CORNER

#### 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, NO INDEPENDENT OWNERSHIP SEARCH WAS PERFORMED BY ASCENT



SCALE: 1" = 1000'



TYPICAL  
PERMANENT EASEMENT



I, CASEY WAYNE FAIRCLOTH, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21051, 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.

CASEY WAYNE FAIRCLOTH, N.M. P.L.S.

No. 21051

SURVEY DATE: 06/26/2020

JOB NO.: B20.EOG.0016

DRAFT: CJB

SHEET: 1 OF 4

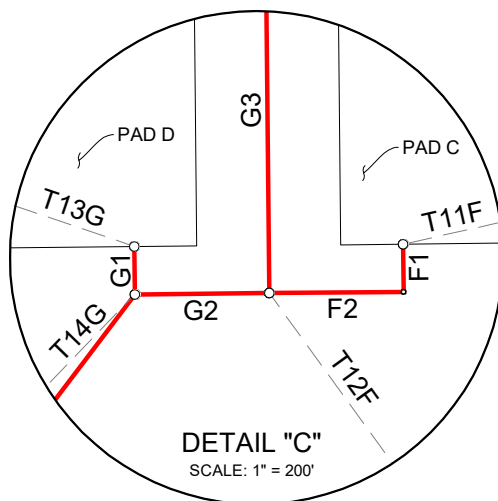
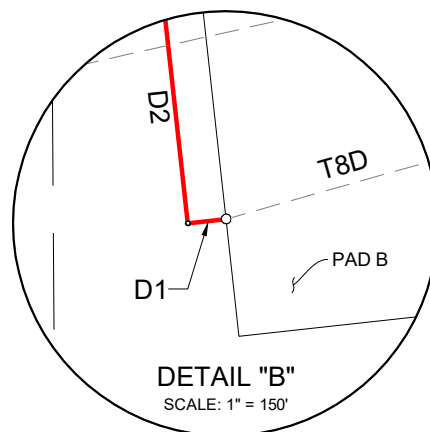
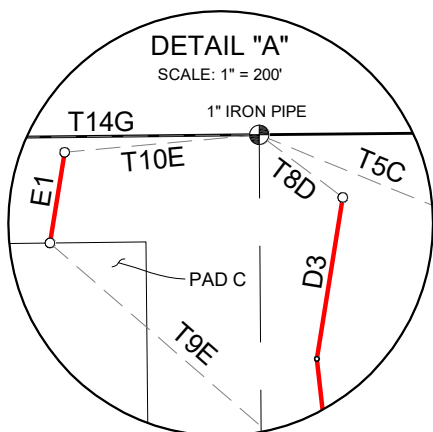


**PRETTY GOOD 20 FC PROPOSED ACCESS ROADS**  
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LEA COUNTY, NEW MEXICO



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SECTION 20, TOWNSHIP 22 SOUTH, RANGE 32 EAST,  
LEA COUNTY, NEW MEXICO



— ACCESS ROADS

• POINT FOR CORNER

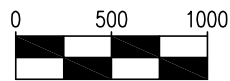
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⊕ FOUND MONUMENT AS SHOWN

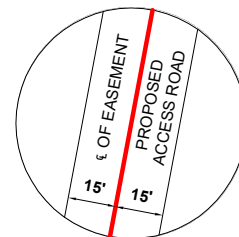
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**NOTES:**

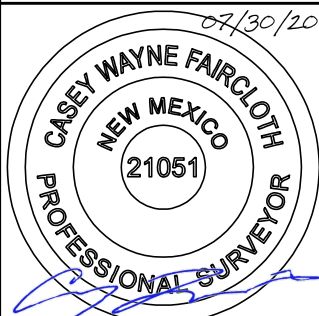
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No.21051

SURVEY DATE: 06/26/2020  
JOB NO.: B20.EOG.0016

DRAFT: CJB  
SHEET: 2 OF 4



**PRETTY GOOD 20 FC PROPOSED ACCESS ROADS**  
CROSSING SEC. 20, T-22-S, R-32-E, N.M.P.M.,  
LEA COUNTY, NEW MEXICO



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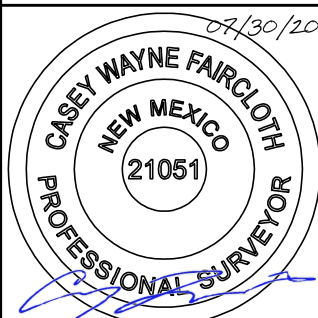
# SECTION 20, TOWNSHIP 22 SOUTH, RANGE 32 EAST, LEA COUNTY, NEW MEXICO

Line Table - Access Roads			
Line #	Direction	Length	Length (Rods)
A1	N4°05'39"E	30.0'	1.8
A2	N85°54'21"W	382.9'	23.2
B1	S4°05'39"W	50.0'	3.0
B2	N85°54'21"W	130.0'	7.9
C1	N83°27'40"E	58.8'	3.6
C2	N11°22'16"E	106.9'	6.5
D1	S83°41'54"W	30.0'	1.8
D2	N6°18'06"W	452.5'	27.4
D3	N9°07'26"E	170.2'	10.3
E1	N9°07'26"E	95.8'	5.8
F1	S0°31'06"E	49.7'	3.0
F2	S89°28'54"W	139.9'	8.5
G1	S0°35'12"E	50.0'	3.0
G2	N89°24'48"E	140.0'	8.5
G3	N0°35'12"W	604.5'	36.6
G4	N9°07'26"E	112.1'	6.8
H1	N10°27'15"E	50.9'	3.1
J1	S83°44'04"W	50.0'	3.0
J2	N6°15'56"W	178.3'	10.8
J3	N37°10'24"E	215.1'	13.0

Line Table - Ties			
Line #	Direction	Length	TIE TO
T1A	N37°48'46"W	2241.3'	B.O.L. - A
T2A	S61°56'06"W	4001.1'	E.O.L. - A
T3B	N53°28'43"W	2075.6'	B.O.L. - B
T4B	S70°16'15"W	3700.5'	E.O.L. - B
T5C	S67°49'39"E	772.5'	B.O.L. - C
T6C	N83°35'04"E	1857.8'	E.O.L. - C
T7D	S74°12'36"W	2599.7'	B.O.L. - D
T8D	N53°06'02"W	108.8'	E.O.L. - D
T9E	N49°00'27"W	3812.1'	B.O.L. - E
T10E	N84°53'06"E	203.6'	E.O.L. - E
T11F	S77°20'48"W	3185.8'	B.O.L. - F
T12F	S35°54'53"E	5597.8'	E.O.L. - F
T13G	S71°11'24"E	2002.3'	B.O.L. - G
T14G	N89°24'48"E	595.3'	E.O.L. - G
T15H	N30°50'35"E	3036.3'	B.O.L. - H
T16H	S89°24'48"W	1583.4'	E.O.L. - H
T17J	N22°58'42"E	4608.5'	B.O.L. - J
T18J	S44°00'03"W	2704.1'	E.O.L. - J

## NOTES:

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No.21051

SURVEY DATE: 06/26/2020  
JOB NO.: B20.EOG.0018

DRAFT: CJB  
SHEET: 3 OF 4



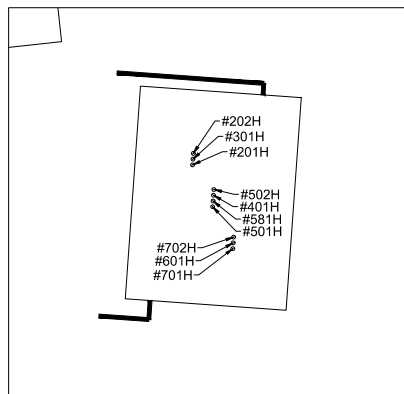
**PRETTY GOOD 20 FC PROPOSED ACCESS ROADS**  
CROSSING SEC. 20, T-22-S, R-32-E, N.M.P.M.,  
LEA COUNTY, NEW MEXICO



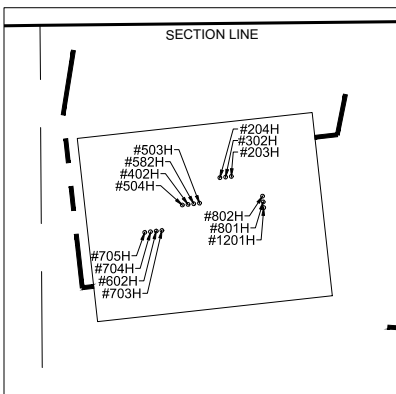
**ASCENT GEOMATICS SOLUTIONS**  
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# SECTION 20, TOWNSHIP 22 SOUTH, RANGE 32 EAST, LEA COUNTY, NEW MEXICO

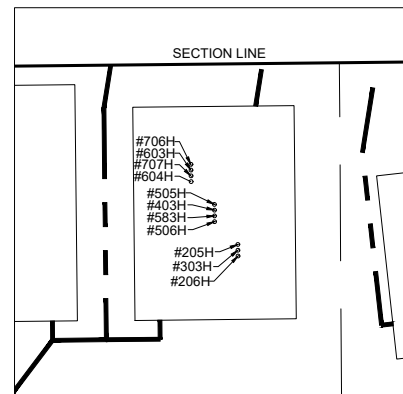
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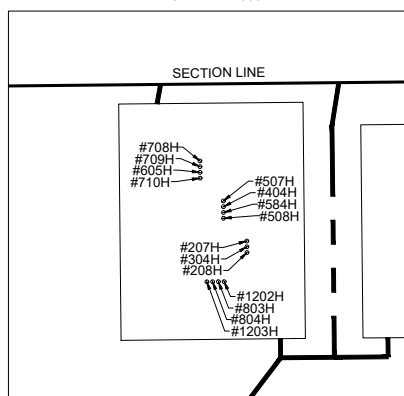
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**PAD C**  
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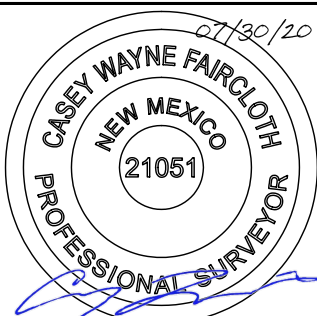


**PAD D**  
SCALE: 1" = 500'



## NOTES:

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**CASEY WAYNE FAIRCLOTH, N.M. P.L.S.**

**No.21051**

SURVEY DATE: 06/26/2020  
JOB NO.: B20.EOG.0016

DRAFT: CJB  
SHEET: 4 OF 4

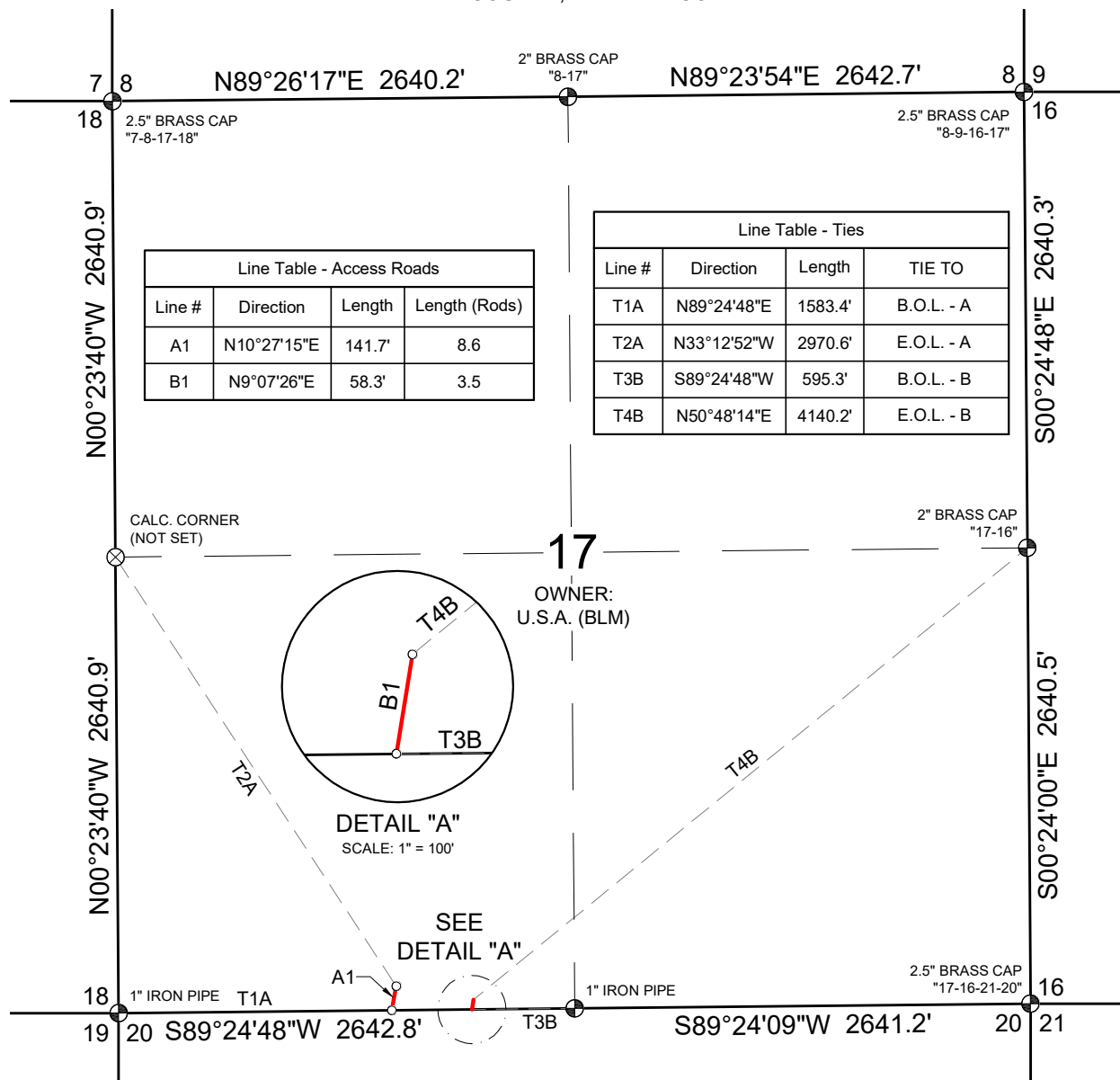


**PRETTY GOOD 20 FC PROPOSED ACCESS ROADS**  
CROSSING SEC. 20, T-22-S, R-32-E, N.M.P.M.,  
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**SECTION 17, TOWNSHIP 22 SOUTH, RANGE 32 EAST,  
LEA COUNTY, NEW MEXICO**



**PRETTY GOOD 20 FC ACCESS ROADS  
CENTERLINE DESCRIPTION**

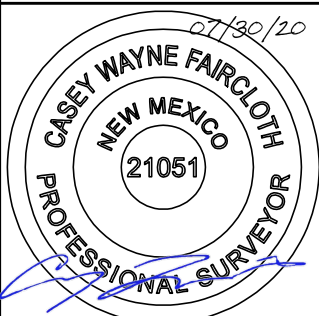
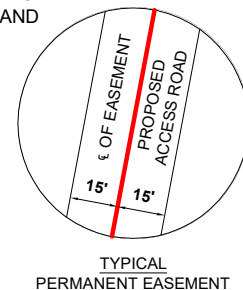
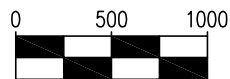
A STRIP OF LAND 30 FEET IN WIDTH AND 200.0 FEET, 12.1 RODS OR 0.04 MILES IN LENGTH, SITUATED IN SECTION 17, TOWNSHIP 22 SOUTH, RANGE 32 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AND BEING 15 FEET LEFT AND 15 FEET RIGHT OF THE SURVEY OF CENTERLINE AS SHOWN HEREON.

**ACCESS ROADS**

- POINT FOR CORNER
- POINT FOR BEGIN/END
- ⊕ FOUND MONUMENT AS SHOWN
- ⊗ CALCULATED CORNER

**NOTES:**

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- LAND OWNERSHIP INFORMATION REFLECTED HEREON WAS PROVIDED BY CLIENT, NO INDEPENDENT OWNERSHIP SEARCH WAS PERFORMED BY ASCENT



I, CASEY WAYNE FAIRCLOTH, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21051, 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 I AM 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.

**CASEY WAYNE FAIRCLOTH, N.M. P.L.S.**

**No.21051**

SURVEY DATE: 06/26/2020  
JOB NO.: B20.EOG.0016

DRAFT: CJB  
SHEET: 1 OF 1



**PRETTY GOOD 20 FC PROPOSED ACCESS ROADS  
CROSSING SEC. 17, T-22-S, R-32-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

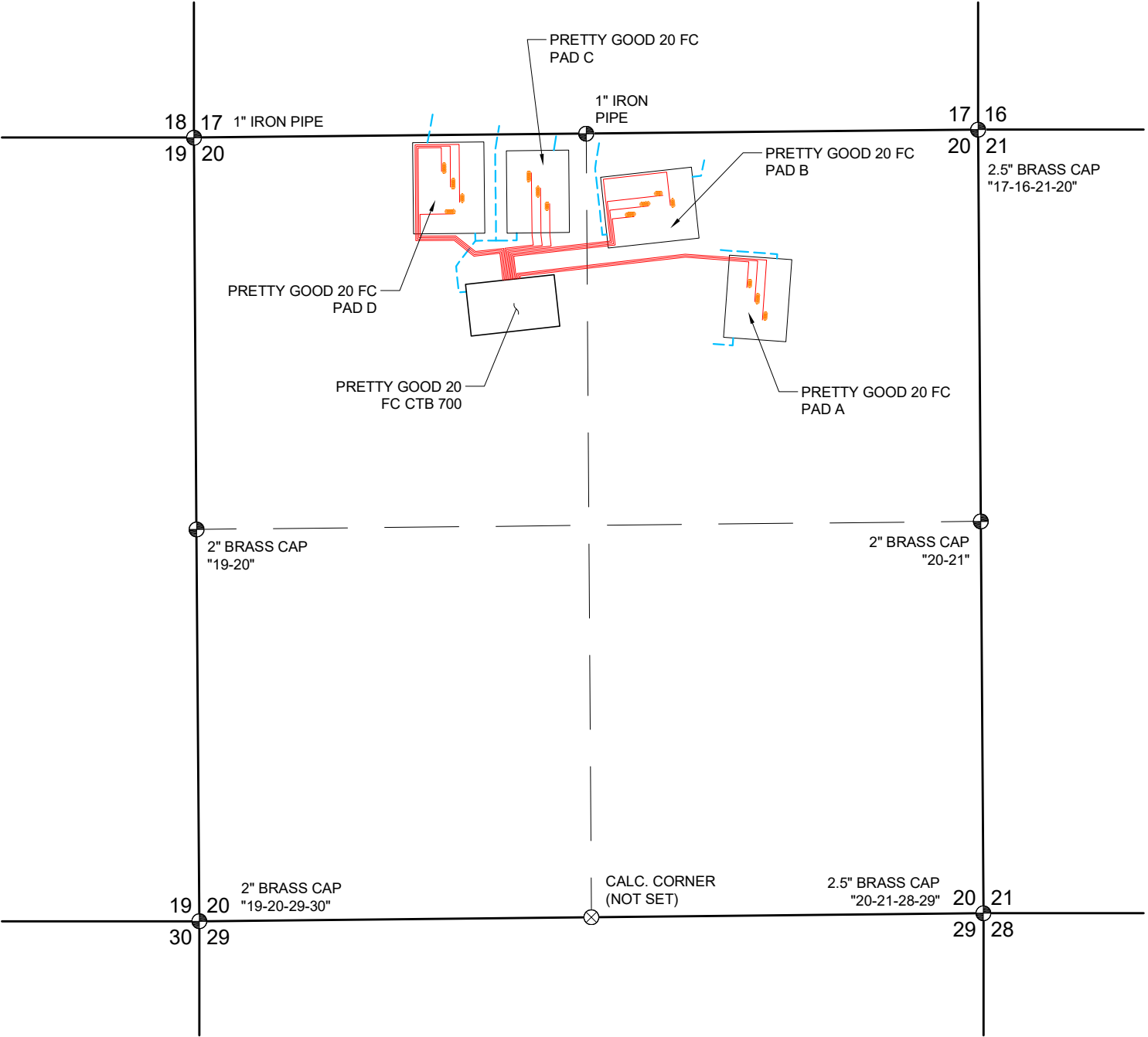
EXHIBIT 1

SECTION 16, TOWNSHIP 22 SOUTH, RANGE 32 EAST,

LEA COUNTY, NEW MEXICO

PRETTY GOOD 20 FC

INFRASTRUCTURE MAP



LEGEND

= SHL

= PAD EDGE

= SECTION LINE

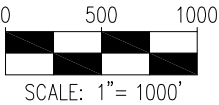
= WATER LINE

= GAS LINE

= ACCESS ROAD

= FLOWLINE & GAS LIFT

= ELECTRIC LINE



SURVEY DATE: 06/26/2020

JOB NO.: B20.EOG.0016

DRAFT: CJB

SHEET: 1 OF 1

PRETTY GOOD 20 FC CTB

INFRASTRUCTURE

ASCENT GEOMATICS SOLUTIONS

COLLECT-ANALYZE-DELIVER

GEOSPATIAL DATA

2057 COMMERCE DRIVE

MIDLAND, TEXAS 79703

(432) 756-5680

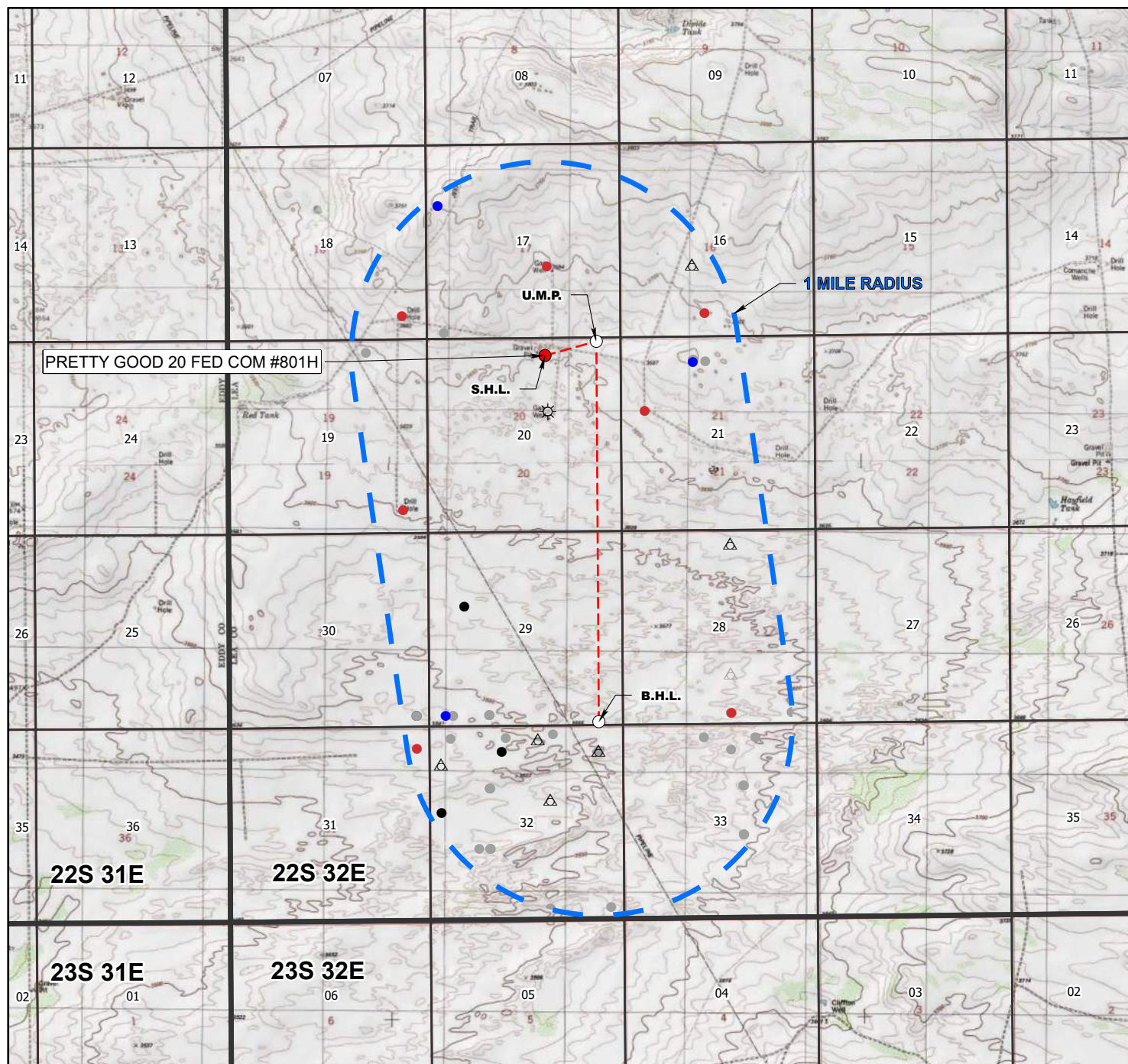
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P:\EOG\_B20016\PROD\ROW\OVERALL\PRETTY\_GOOD\_20\_FC\_OVERALL\_REV 7/23/2020 7:02 PM



# EXHIBIT 3

## 1 MILE RADIUS BUFFER MAP



LEASE NAME & WELL NO.: PRETTY GOOD 20 FED COM #801H  
 LATITUDE: N 32.383062 LONG: W 103.694896 ELEVATION: 3654'

SECTION: 20 TWP: 22S RGE: 32E SURVEY: N.M.P.M.  
 COUNTY: LEA STATE: NM

DESCRIPTION: 473' FNL & 2061' FEL

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

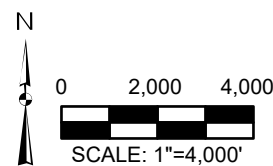


JOB No.: EOG B200016

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.

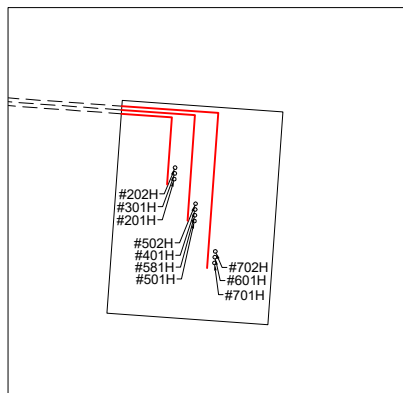
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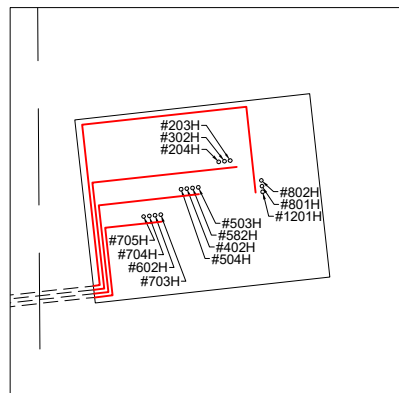


# SECTION 20, TOWNSHIP 22 SOUTH, RANGE 32 EAST, LEA COUNTY, NEW MEXICO

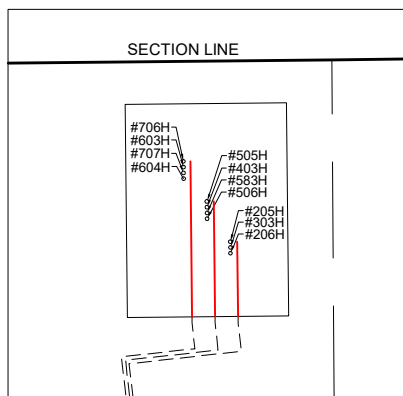
**PAD A**  
SCALE: 1" = 500'



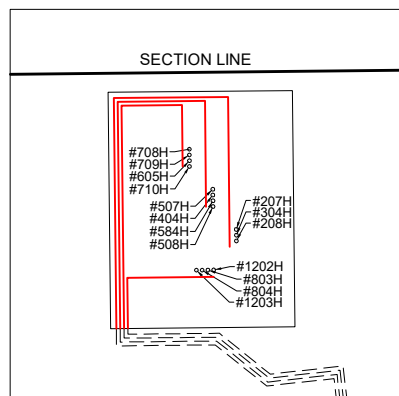
**PAD B**  
SCALE: 1" = 500'



**PAD C**  
SCALE: 1" = 500'



**PAD D**  
SCALE: 1" = 500'



— FLOWLINE & GAS LIFT

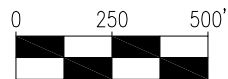
○ SET SPIKE NAIL FOR BEGIN/END OR ANGLE POINT

⊙ BRASS CAP STAMPED AS SHOWN

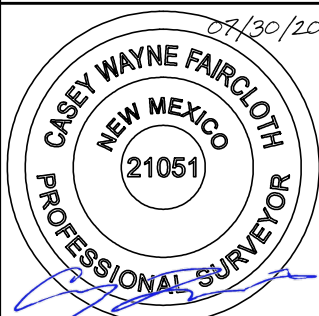
⊗ CALCULATED CORNER

## 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, NO INDEPENDENT OWNERSHIP SEARCH WAS PERFORMED BY ASCENT



SCALE: 1" = 500'



I, CASEY WAYNE FAIRCLOTH, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21051, 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.

**CASEY WAYNE FAIRCLOTH, N.M. P.L.S.**

**No.21051**

SURVEY DATE: 06/26/2020  
JOB NO.: B20.EOG.0016

DRAFT: JW  
SHEET: 1 OF 1



**PRETTY GOOD 20 FC PROPOSED FLOWLINE & GAS LIFT**  
CROSSING SEC. 20, T-22-S, R-32-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

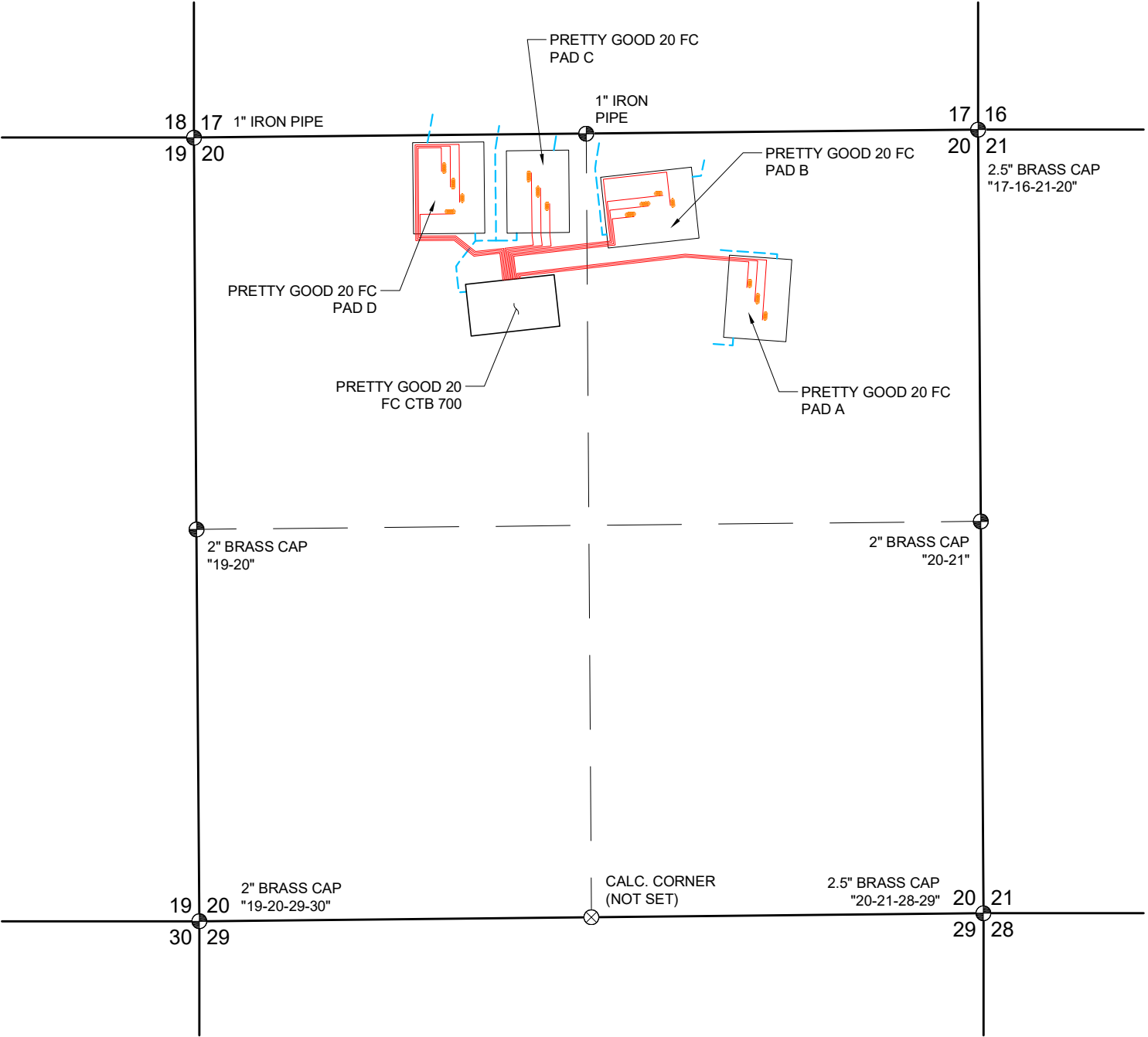
EXHIBIT 1

SECTION 16, TOWNSHIP 22 SOUTH, RANGE 32 EAST,

LEA COUNTY, NEW MEXICO

PRETTY GOOD 20 FC

INFRASTRUCTURE MAP



LEGEND

= SHL

= PAD EDGE

= SECTION LINE

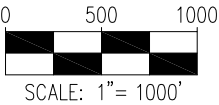
= WATER LINE

= GAS LINE

= ACCESS ROAD

= FLOWLINE & GAS LIFT

= ELECTRIC LINE



SURVEY DATE: 06/26/2020

JOB NO.: B20.EOG.0016

DRAFT: CJB

SHEET: 1 OF 1

PRETTY GOOD 20 FC CTB

INFRASTRUCTURE

ASCENT GEOMATICS SOLUTIONS

COLLECT-ANALYZE-DELIVER

GEOSPATIAL DATA

2057 COMMERCE DRIVE

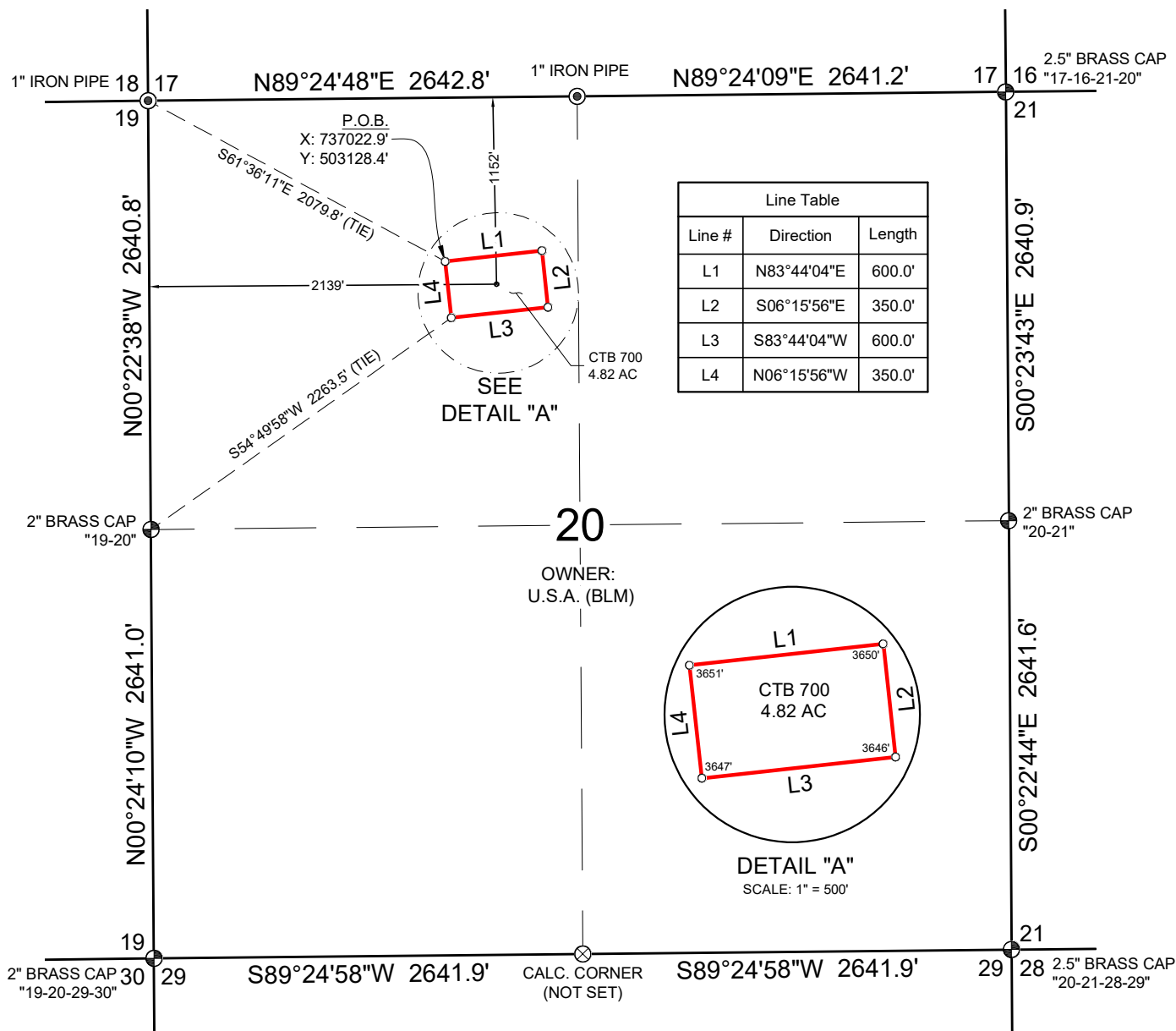
MIDLAND, TEXAS 79703

(432) 756-5680

Released to Imaging: 9/23/2025 1:54:32 PM

P:\EOG\_B20016\PROD\ROW\OVERALL\PRETTY\_GOOD\_20\_FC\_OVERALL\_REV 7/23/2020 7:02 PM

# SECTION 20, TOWNSHIP 22 SOUTH, RANGE 32 EAST, LEA COUNTY, NEW MEXICO



## PRETTY GOOD 20 FC CTB 700 SITE SURFACE SITE DESCRIPTION

A PROPOSED SURFACE SITE SITUATED IN SECTION 20, TOWNSHIP 22 SOUTH, RANGE 32 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS;

**BEGINNING** AT POINT, POINT FROM WHICH A U.S.G.L.O. BRASS CAP FOUND AND ACCEPTED AS THE NORTHWEST CORNER OF SAID SECTION 20 AND BEING THE NORTHWEST CORNER HEREOF BEARS N61°36'11\"E, 2079.8 FEET;

**THENCE** THE FOLLOWING FOUR COURSES AND DISTANCES, N83°44'04\"E, 600.0 FEET, S06°15'56\"E, 350.0 FEET, S83°44'04\"W, 600.0 FEET, N06°15'56\"W, 350.0 FEET BACK TO THE **POINT OF BEGINNING**, CONTAINING 4.82 ACRES.

### NOTE:

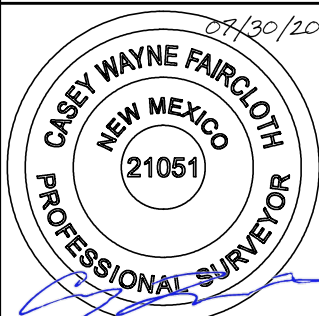
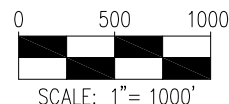
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- LAND OWNERSHIP INFORMATION REFLECTED HEREON WAS PROVIDED BY CLIENT, NO INDEPENDENT OWNERSHIP SEARCH WAS PERFORMED BY ASCENT.

— SITE

○ POINT FOR CORNER

⊕ BRASS CAP STAMPED AS SHOWN

⊗ CALCULATED CORNER



I, CASEY WAYNE FAIRCLOTH, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21051, 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.

CASEY WAYNE FAIRCLOTH, N.M. P.L.S.

No.21051

SURVEY DATE: 06/26/2020  
JOB NO.: B20.EOG.0016

DRAFT: KLB  
SHEET: 1 OF 1

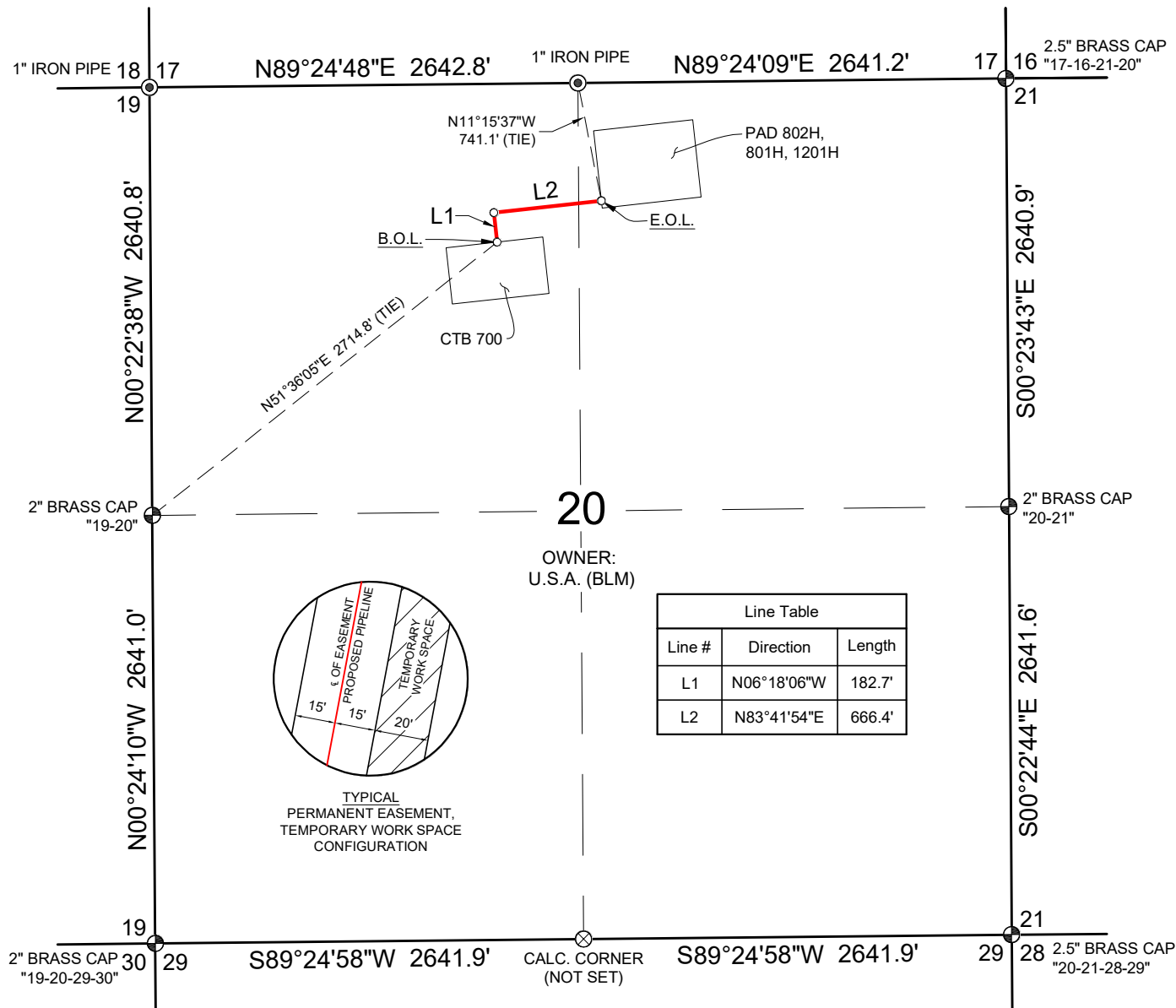


**PRETTY GOOD 20 FC CTB 700 PROPOSED SITE**  
SEC. 20, T-22-S, R-32-E, N.M.P.M.,  
LEA COUNTY, NEW MEXICO



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

# SECTION 20, TOWNSHIP 22 SOUTH, RANGE 32 EAST, LEA COUNTY, NEW MEXICO



## PRETTY GOOD 20 FC 802H, 801H, 1201H FLOWLINE & GAS LIFT

### CENTERLINE DESCRIPTION

A STRIP OF LAND 30 FEET IN WIDTH AND 849.1 FEET, 51.5 RODS OR 0.16 MILES IN LENGTH, SITUATED IN SECTION 20, TOWNSHIP 22 SOUTH, RANGE 32 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.

— FLOWLINE & GAS LIFT

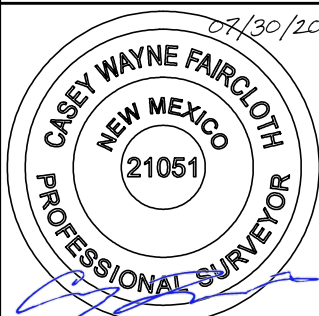
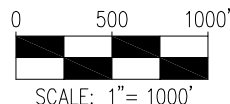
○ SET SPIKE NAIL FOR BEGIN/END OR ANGLE POINT

⊗ BRASS CAP STAMPED AS SHOWN

⊗ CALCULATED CORNER

#### NOTES:

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CASEY WAYNE FAIRCLOTH, N.M. P.L.S.

No.21051

SURVEY DATE: 06/26/2020  
JOB NO.: B20.EOG.0016

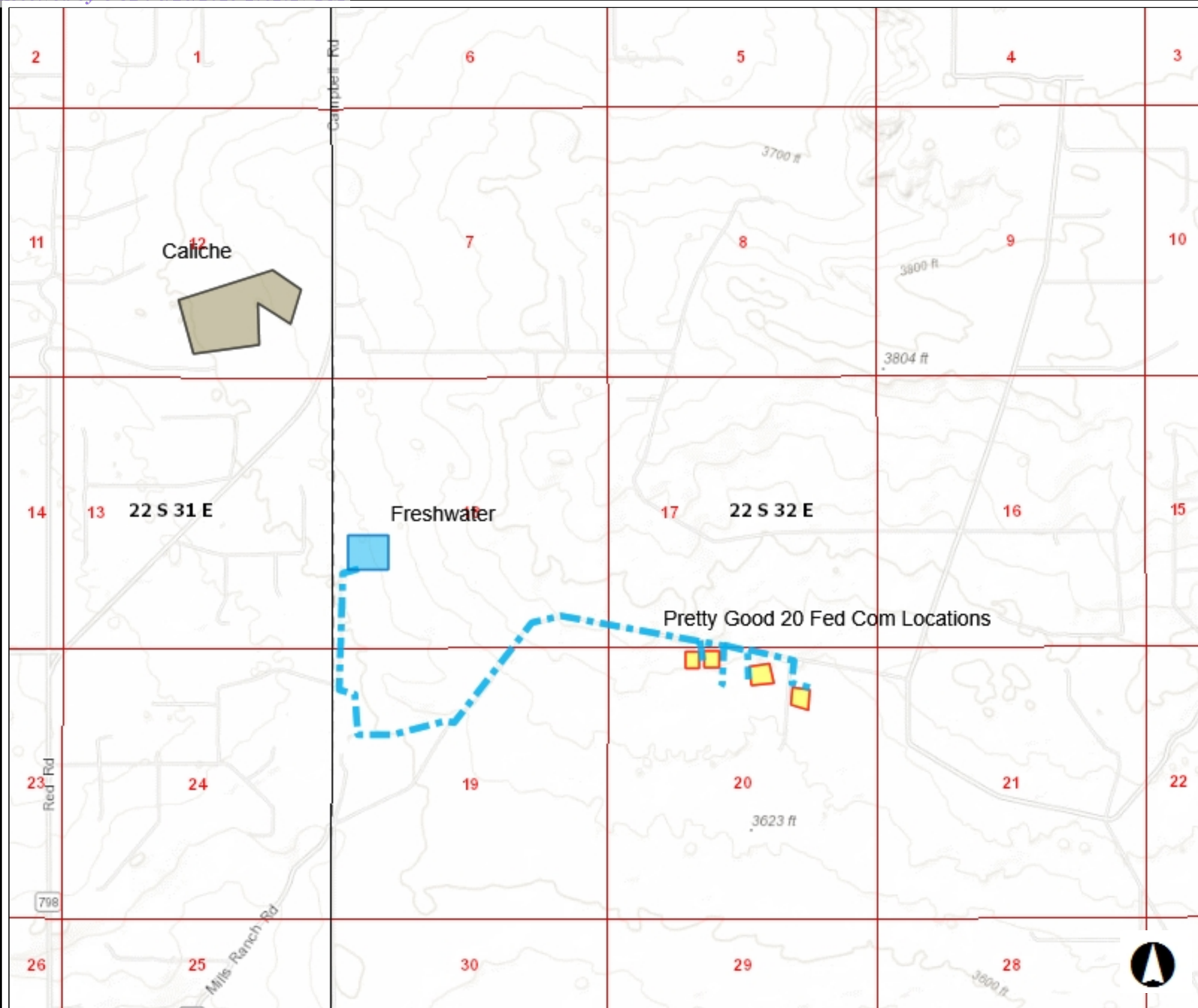
DRAFT: JW  
SHEET: 1 OF 1





**PRETTY GOOD 20 FC 802H, 801H, 1201H PROPOSED  
FLOWLINE & GAS LIFT CROSSING SEC. 20, T-22-S,  
R-32-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



## Legend

-  Equipment Drilling Data
-  Survey Paths
- Stage Midpoint - MID
- Stage Midpoint - MID



Pretty Good Water and  
Caliche

Author: Richard Stewart

6,666.7 0 3,333.33 6,666.7 Feet

1: 40,000

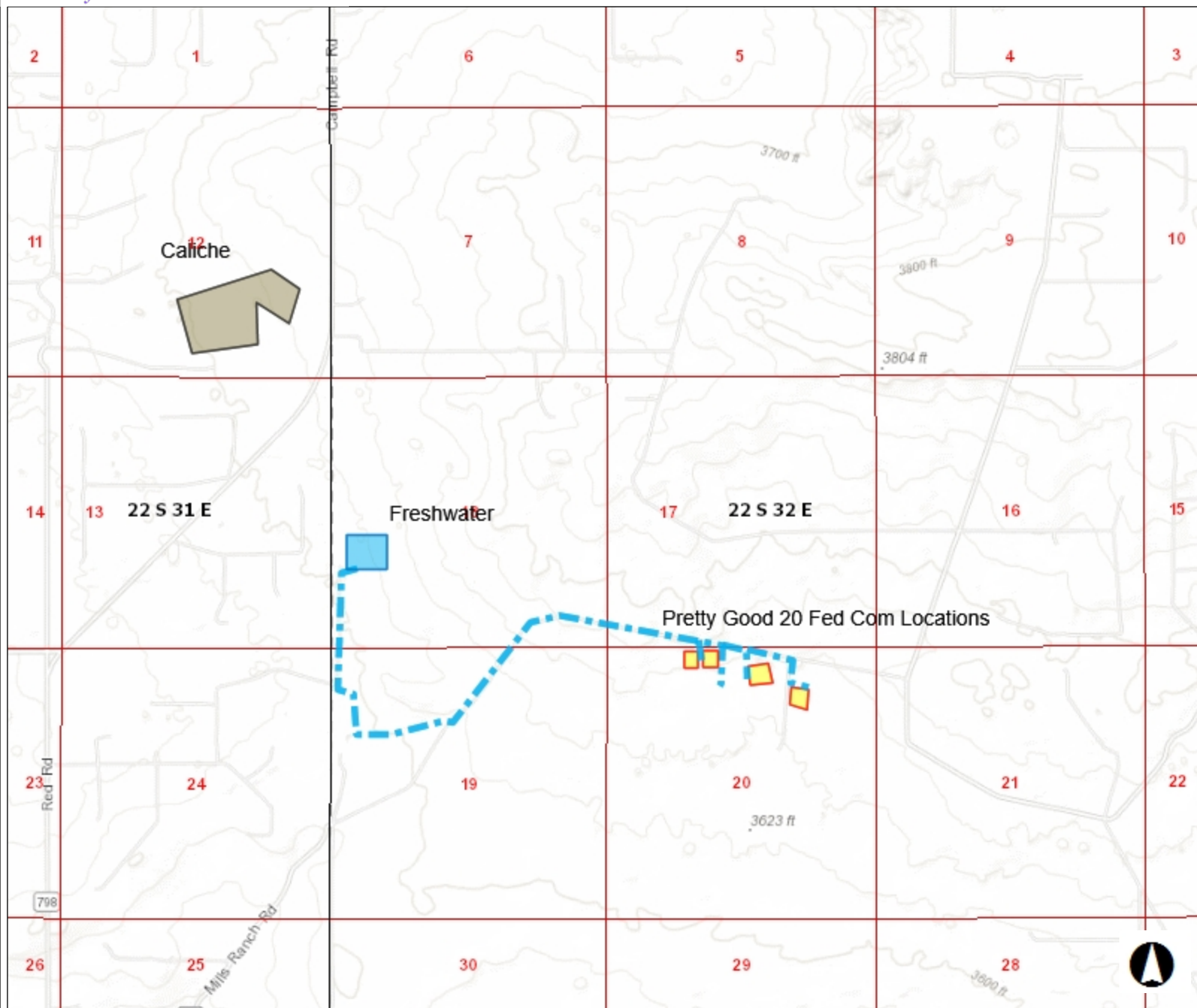
Projection: WGS\_1984\_Web\_Mercator\_Auxiliary\_Sphere

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.



THIS MAP IS NOT TO BE USED FOR NAVIGATION

Date: 8/21/2020





## Legend

-  Equipment Drilling Data
-  Survey Paths
- Stage Midpoint - MID
- Stage Midpoint - MID



Pretty Good Water and  
Caliche

Author: Richard Stewart

6,666.7 0 3,333.33 6,666.7 Feet

1: 40,000

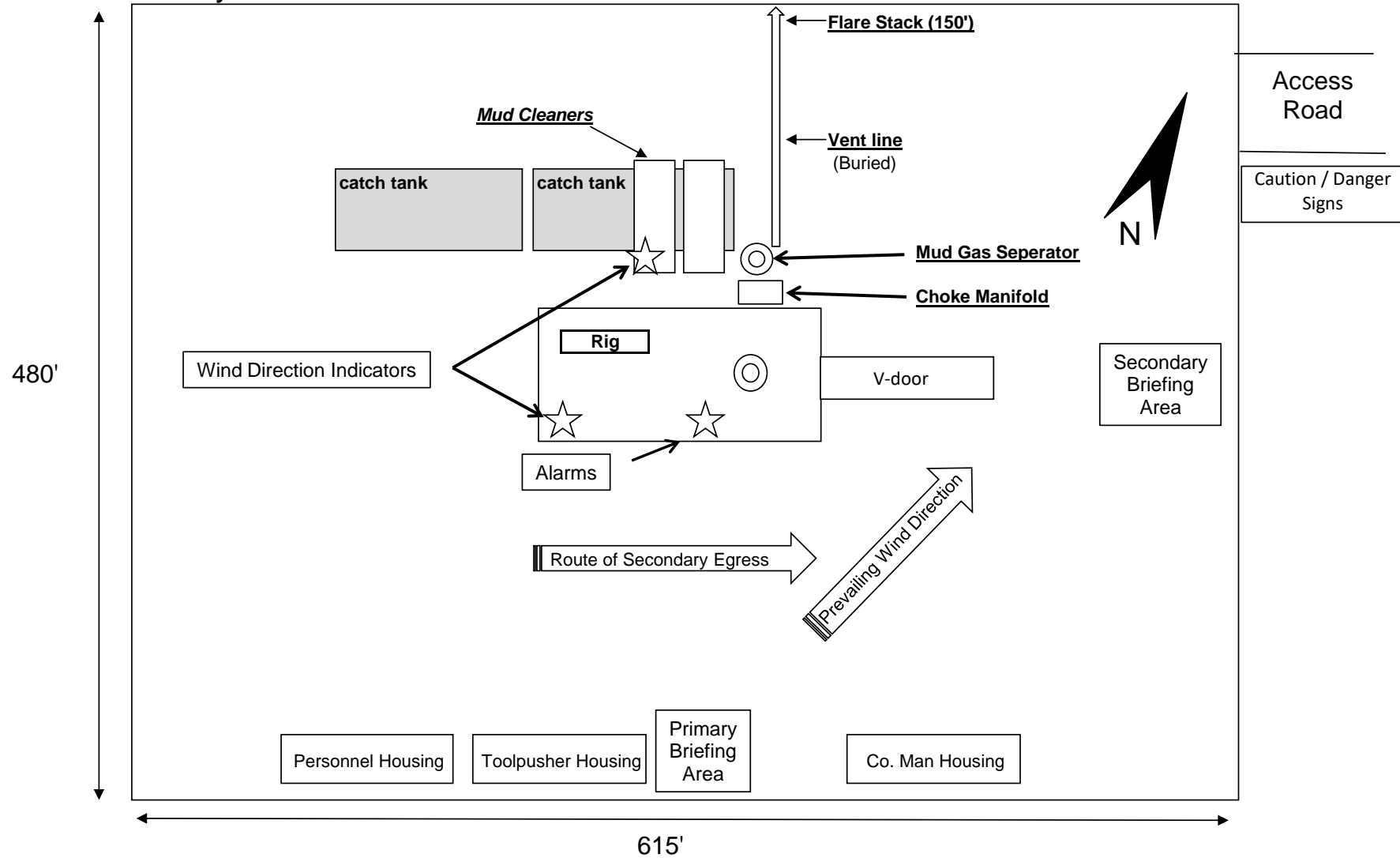
Projection: WGS\_1984\_Web\_Mercator\_Auxiliary\_Sphere

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS MAP IS NOT TO BE USED FOR NAVIGATION

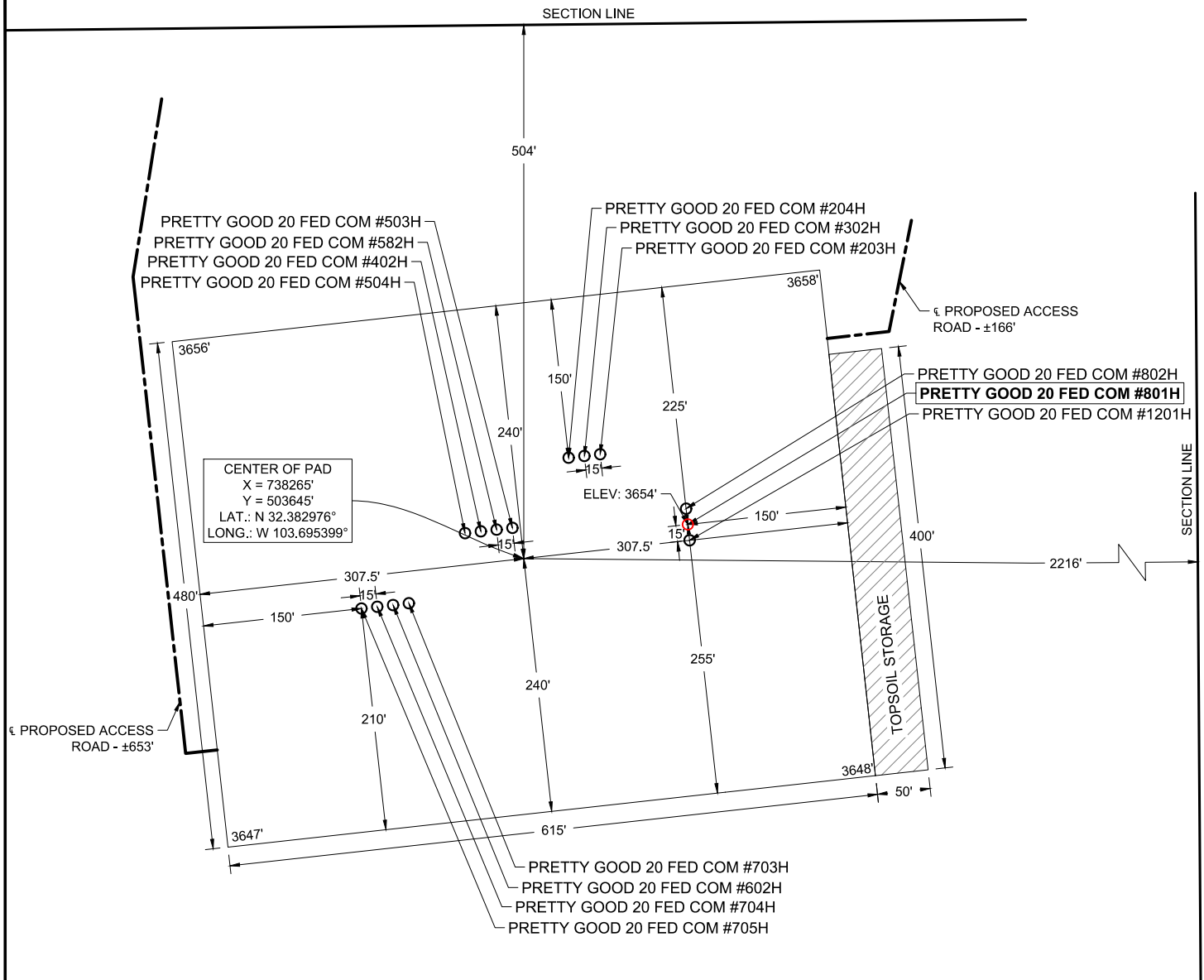
Date: 8/21/2020

Exhibit 4  
EOG Resources  
Well Site Diagram  
Pretty Good 20 Fed Com #801H





# EXHIBIT 2B PAD LAYOUT



LEASE NAME & WELL NO.: PRETTY GOOD 20 FED COM #801H  
 LATITUDE: N 32.383062 LONG: W 103.694896 ELEVATION: 3654'

SECTION: 20 TWP: 22S RGE: 32E SURVEY: N.M.P.M.  
 COUNTY: LEA STATE: NM

DESCRIPTION: CENTER OF PAD IS 504' FNL & 2216' FEL

## LEGEND

--- = PROPOSED ACCESS ROAD  
 --- = SECTION LINE



JOB No.: EOG\_B200016

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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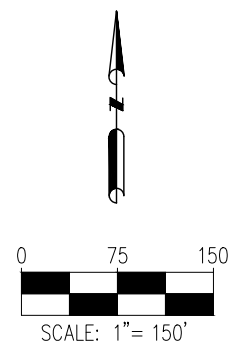
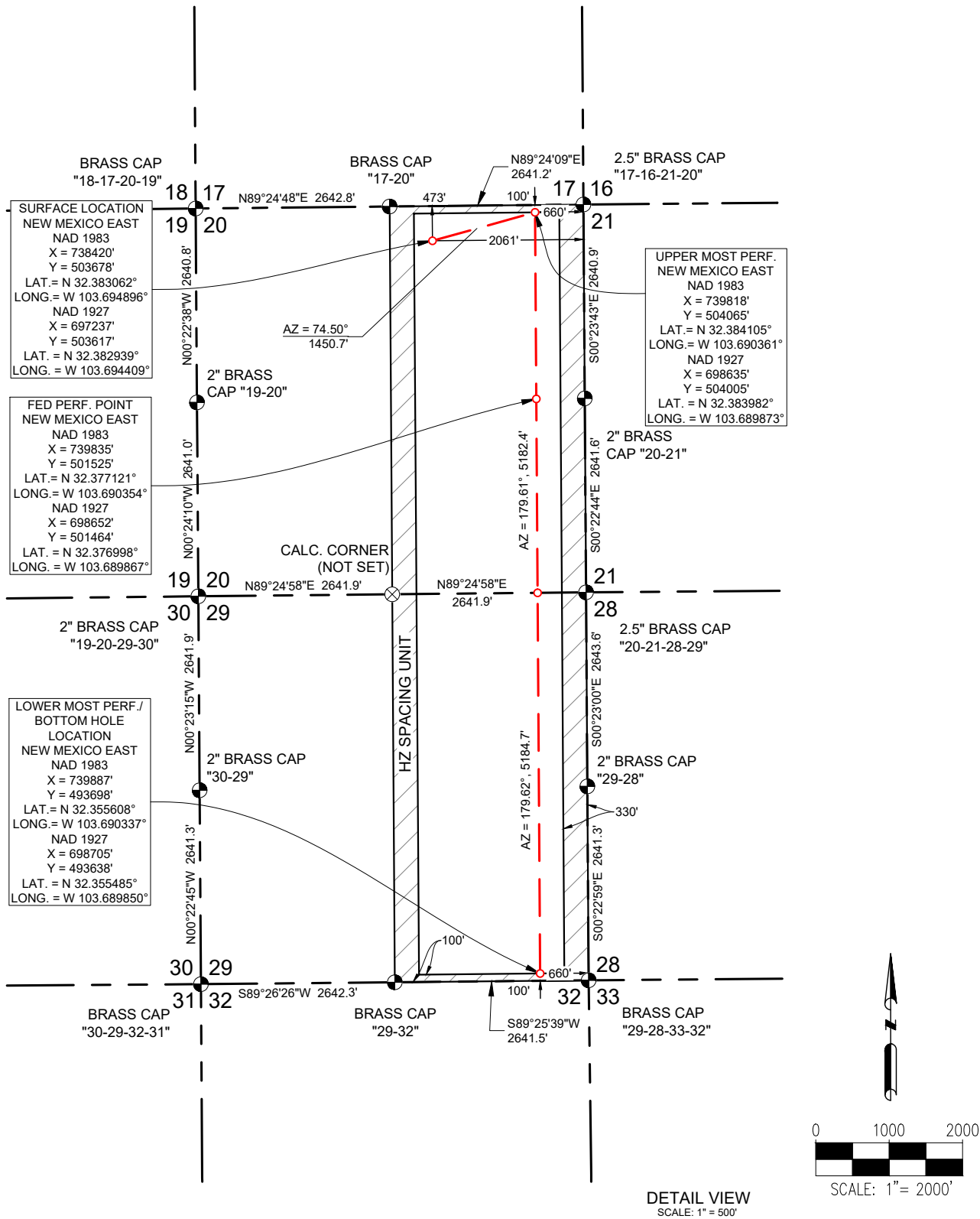


EXHIBIT 2A  
WELL LOCATION EXHIBIT



LEASE NAME & WELL NO.: PRETTY GOOD 20 FED COM #801H  
LATITUDE: N 32.383062 LONG: W 103.694896 ELEVATION: 3654'

SECTION: 20 TWP: 22 S RGE: 32 E SURVEY: N.M.P.M.  
COUNTY: LEA STATE: NM

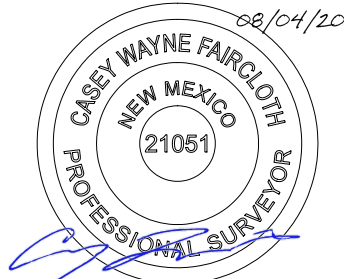
DESCRIPTION: 473' FNL & 2061' FEL

DISTANCE & DIRECTION:  
FROM INT. RED ROAD & MILLS RANCH ROAD, GO NORTHEAST ON MILLS RANCH ROAD ±2.69 MILES; THENCE EAST (RIGHT) ON LEASE ROAD ±0.83 MILES; THENCE SOUTH (RIGHT) ON A PROPOSED ROAD ±653 FEET TO THE EDGE OF PAD. (PROPOSED ACCESS ROAD LENGTH = 653')



JOB No.: EOG\_B200016

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.  
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08/04/20

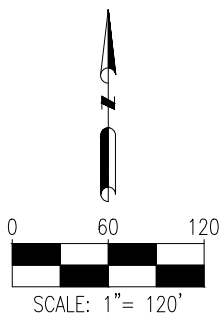
CASEY WAYNE FAIRCLOTH, N.M. P.L.S. No.21051



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

# EXHIBIT 6 PRETTY GOOD 20 FED COM PAD B

SECTION 20, TOWNSHIP 22-S, RANGE 32-E, N.M.P.M.  
LEA COUNTY, NEW MEXICO



## PROPOSED QUANTITIES

TOP OF PAD ELEVATION: 3651.8'  
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: 391,824 C.F., 14,512 C.Y.  
FILL: 391,824 C.F., 14,512 C.Y.  
AREA: 317,945 SQ.FT., 7.3 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:  
04-16-2020  
DRAWING DATE:  
07-20-2020  
BY:  
AMS

CHECKED:  
RMC

SITE NAME:  
PRETTY GOOD 20 FED COM PAD B  
SURFACE LOCATION:  
NW 1/4 NE 1/4 SEC. 20, T22S, R32E, N.M. P.M.  
LEA COUNTY, NEW MEXICO

PREPARED FOR:

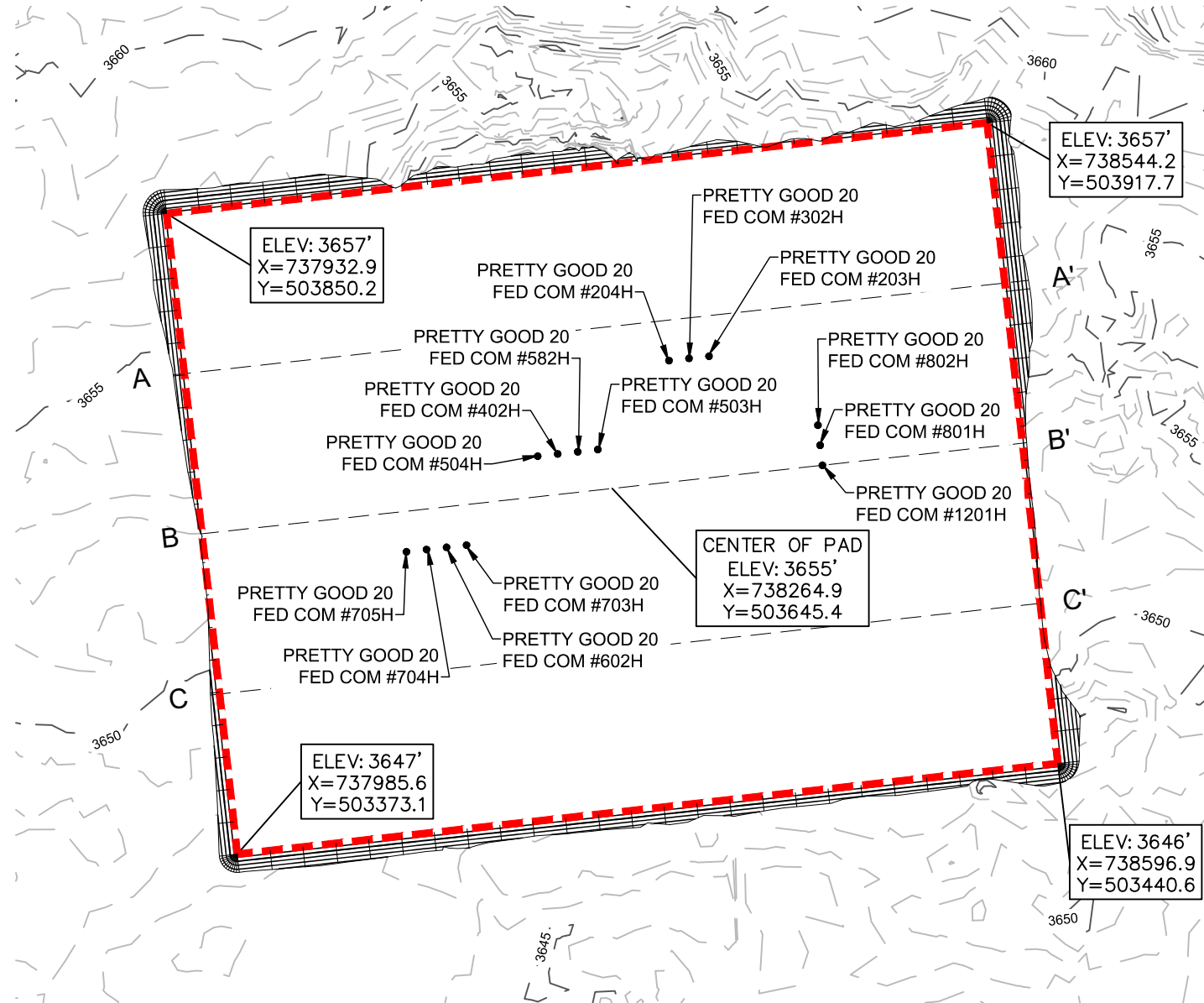
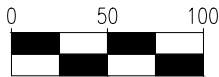
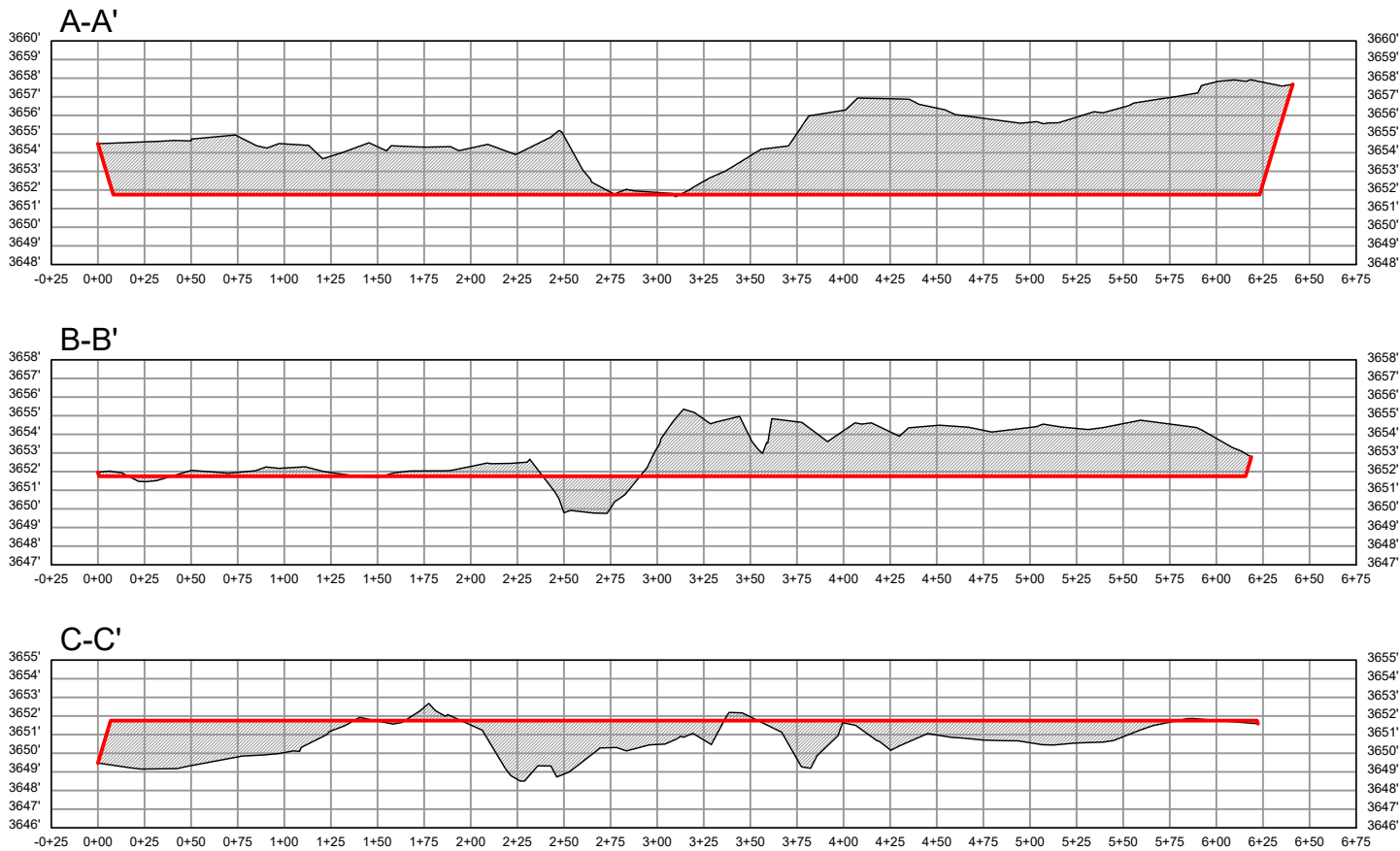


EXHIBIT 6A  
PRETTY GOOD 20 FED COM  
PAD B

SECTION 20, TOWNSHIP 22-S, RANGE 32-E, N.M.P.M.  
LEA COUNTY, NEW MEXICO



SCALE: 1"= 100'  
VERT SCALE: 1"=10'

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.

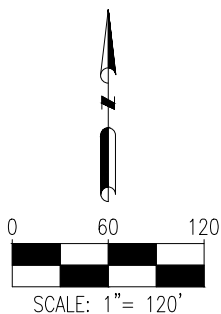


FIELD DATE: 04-16-2020		SITE NAME: PRETTY GOOD 20 FED COM PAD B	
DRAWING DATE: 07-20-2020		SURFACE LOCATION: NW 1/4 NE 1/4 SEC. 20, T22S, R32E, N.M. P.M.	
BY: AMS	CHECKED: RMC	LEA COUNTY, NEW MEXICO	



# EXHIBIT 6B PRETTY GOOD 20 FED COM PAD B

SECTION 20, TOWNSHIP 22-S, RANGE 32-E, N.M.P.M.  
LEA COUNTY, NEW MEXICO



## PROPOSED QUANTITIES

TOP OF PAD ELEVATION: 3651.8'  
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: 391,824 C.F., 14,512 C.Y.  
FILL: 391,824 C.F., 14,512 C.Y.  
AREA: 317,945 SQ.FT., 7.3 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:

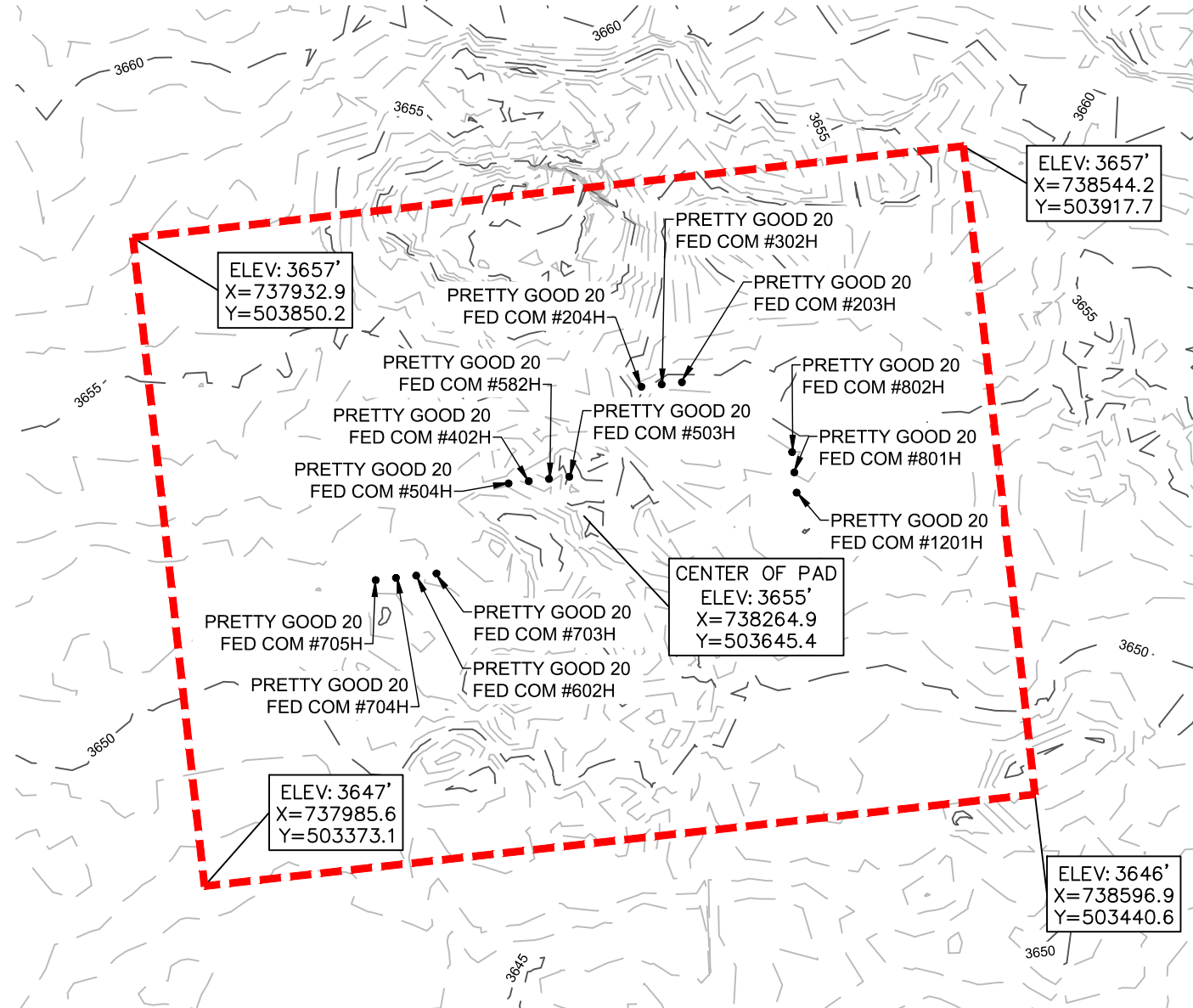
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FIELD DATE:  
04-16-2020  
DRAWING DATE:  
07-20-2020  
BY:  
AMS  
CHECKED:  
RMC

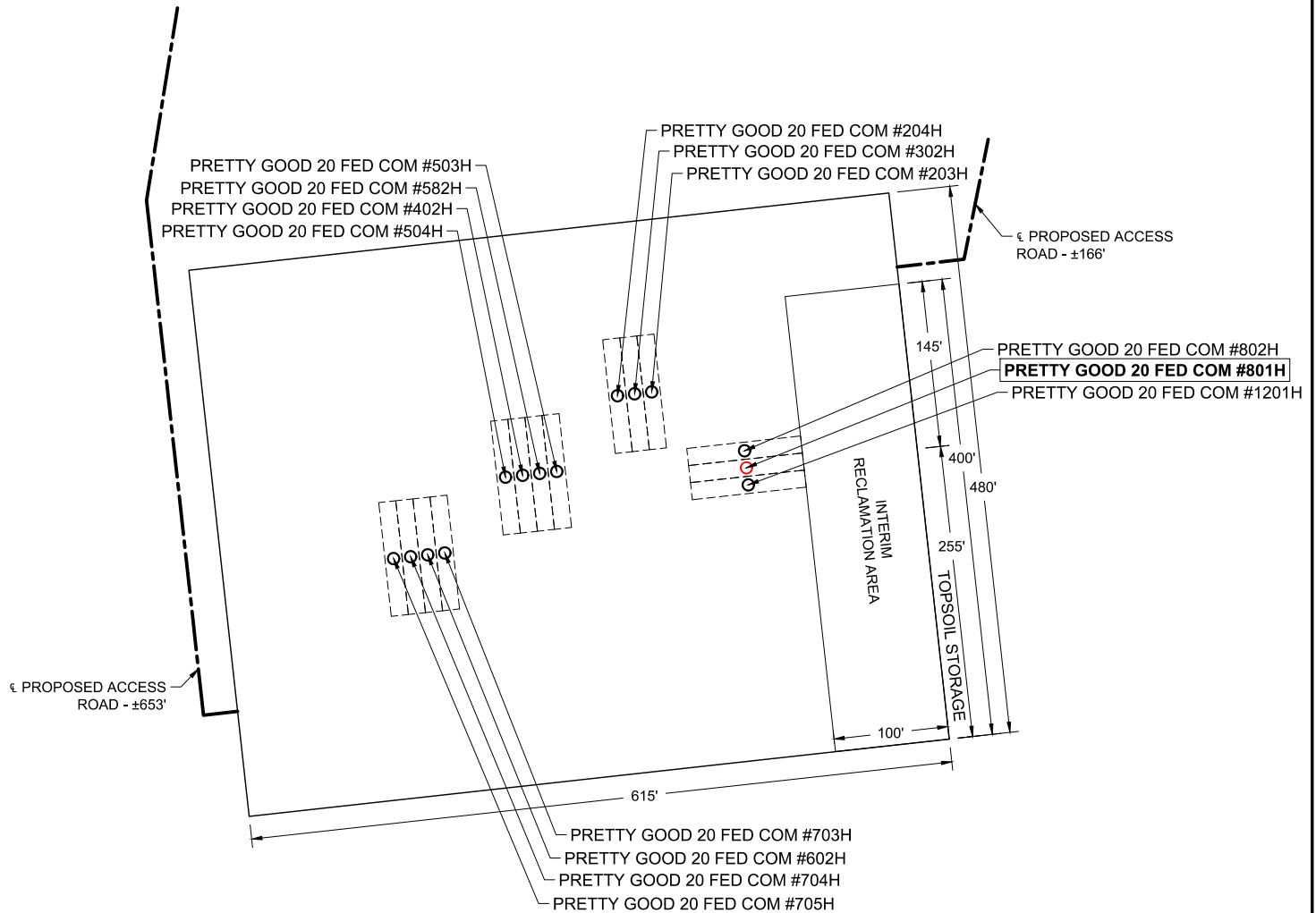
SITE NAME:  
PRETTY GOOD 20 FED COM PAD B  
SURFACE LOCATION:  
NW 1/4 NE 1/4 SEC. 20, T22S, R32E, N.M. P.M.  
LEA COUNTY, NEW MEXICO

PREPARED FOR:



# EXHIBIT 2C RECLAMATION DIAGRAM

DETAIL VIEW  
SCALE: 1" = 150'



LEASE NAME & WELL NO.: PRETTY GOOD 20 FED COM #801H  
 LATITUDE: N 32.383062 LONG: W 103.694896 ELEVATION: 3654'

SECTION: 20 TWP: 22S RGE: 32E SURVEY: N.M.P.M.  
 COUNTY: LEA STATE: NM

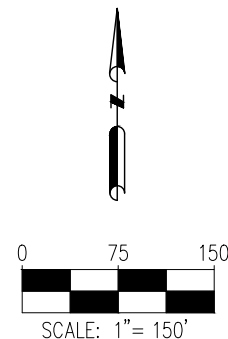
DESCRIPTION: CENTER OF PAD IS 504' FNL & 2216' FEL



JOB No.: EOG B200016

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.

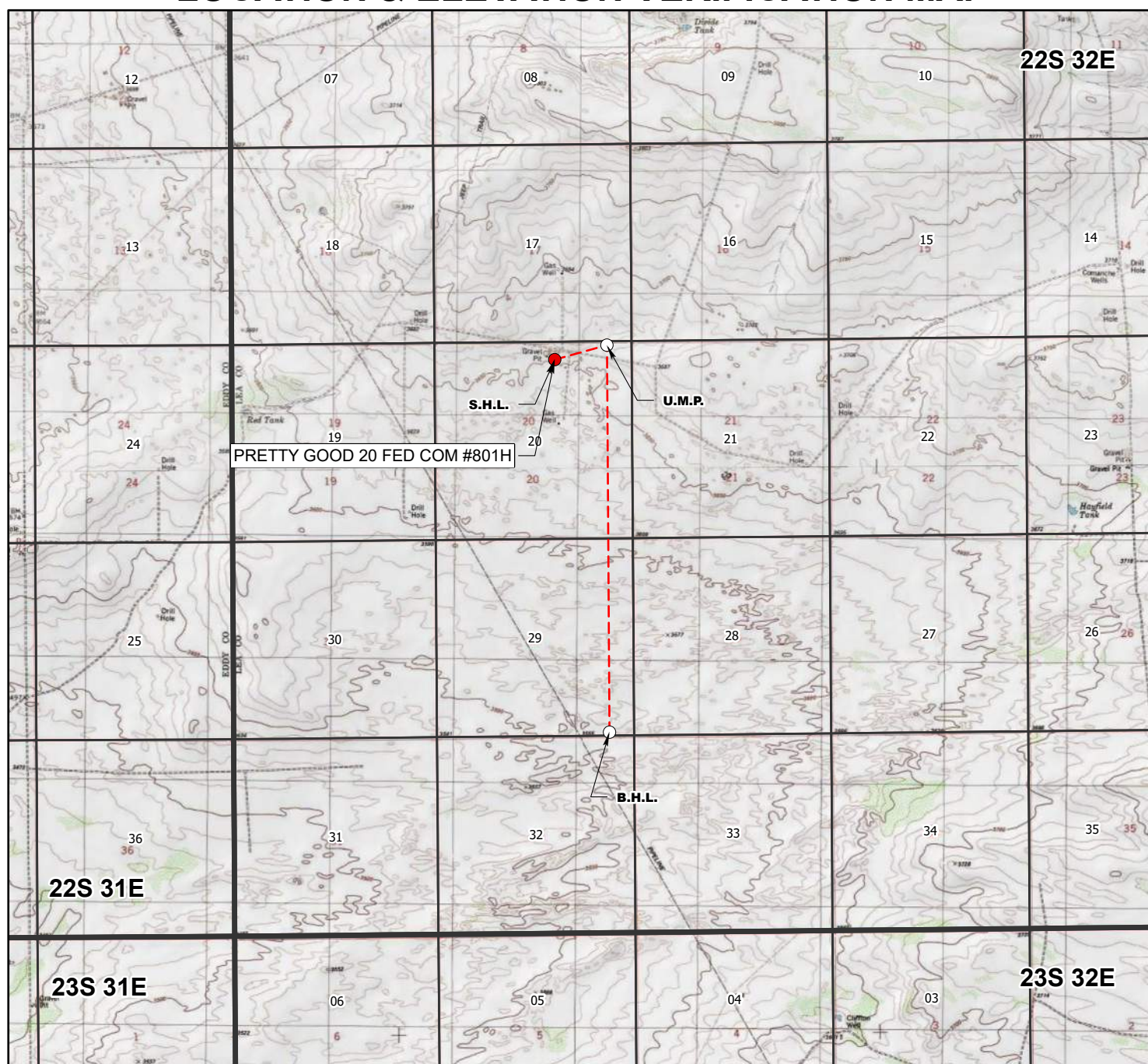
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# EXHIBIT 1

## LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: PRETTY GOOD 20 FED COM #801H  
 LATITUDE: N 32.383062 LONG: W 103.694896 ELEVATION: 3654'

SECTION: 20 TWP: 22S RGE: 32E SURVEY: N.M.P.M.  
 COUNTY: LEA STATE: NM

DESCRIPTION: 473' FNL & 2061' FEL

- S.H.L.
- L.M.P.; B.H.L.; U.M.P.
- Bore Line
- Section
- Township

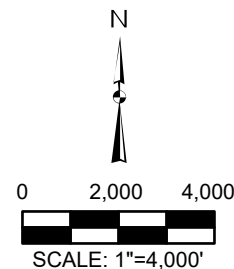


JOB No.: EOG\_B200016

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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 TO DETERMINE BOUNDARY LINES, PROPERTY OWNERSHIP OR OTHER PROPERTY INTERESTS.

Released to Imaging: 9/23/2025 1:54:32 PM





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SHL: 473 FNL &amp; 2061 FEL, Section: 20, T.22S., R.32E.

PRETTY GOOD 20 FED COM 801H

BHL: 100 FSL &amp; 660 FEL, Section: 29, T.22S., R.32E.

# 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 Pretty Good 20 Fed Com 801H 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

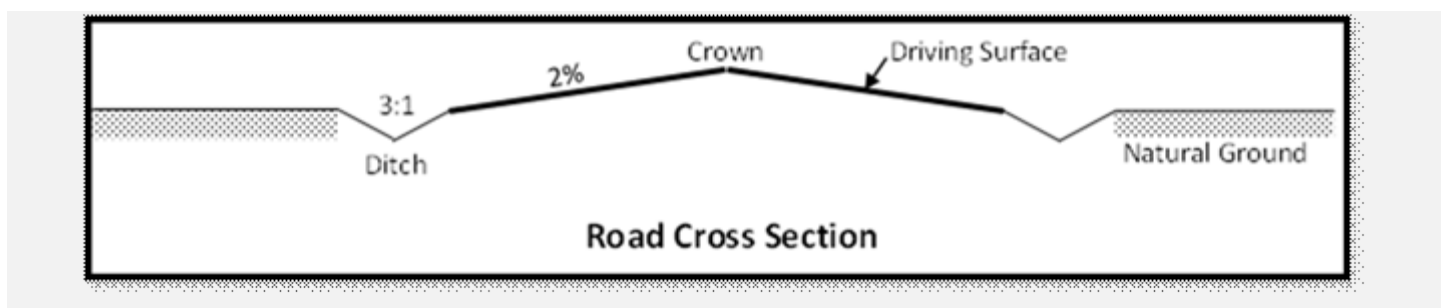
- a. An access road will be needed for this proposed project. See the survey plat for the location of the access road.
- b. The length of access road needed to be constructed for this proposed project is about 653 feet.
- c. The maximum driving width of the access road will be 30 feet. The maximum width of surface disturbance when constructing the access road will not exceed 30 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.

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- 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 5 percent.
- h. No turnouts will be constructed on the proposed access road.
- i. No cattleguards will be installed for this proposed access road.
- j. No BLM right-of-way grant is needed for the construction of this access road.
- k. No culverts will be constructed for this proposed access road.
- 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.
- o. Please see Cut and Fill Exhibit 6, 6A and 6B attached.

### 3. Location of Existing Wells

- a. Pretty Good 20 Fed Com 801H 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. Pretty Good 20 FC CTB 700 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 precipitation, unless more stringent protective requirements are deemed necessary.

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- e. Pretty Good 20 FC Infrastructure Map 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 849 feet. The working pressure of the pipeline will be about 1440 psi. A 50 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. Pretty Good 20 FC Infrastructure Map depicts the proposed production pipeline route from the well to the existing production facility.
  - iii. The proposed pipeline does not cross lease boundaries, so a right of way grant will not need to be acquired from the BLM.

**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. An electric line will be applied for through a sundry notice or BLM right of way at a later date.

## **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. This location will be drilled using a combination of water mud systems (outlined in the drilling program). The water will be obtained from commercial water stations in the area or recycled treated water and hauled to location by trucks or poly pipelines using existing and proposed roads depicted on the proposed existing access road maps. In these cases where a poly pipeline is used to transport fresh water for drilling purposes, proper authorizations will be secured by the contractor.
- b. The operator will use established or constructed oil and gas roads to transport water to the well site. The operator will try to utilize the identified access route in the surface use plan.

## **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

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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

- 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' archaeological 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 Pretty Good 20 Fed Com 801H 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.

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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. Pretty Good 20 Fed Com 801H 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

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EOG Resources, Inc.

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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 6/23/2020.

We are asking for 1 associated pipeline depicted on the attached Pretty Good 20 Fed Com Infrastructure Map: One 6-inch buried flex steel production flowline per well.

**13. Maps and Diagrams**

Pretty Good 20 Fed Com 801H Vicinity - Existing Road  
Pretty Good 20 Fed Com 801H Radius - Wells Within One Mile  
Pretty Good 20 FC CTB 700 - Production Facilities Diagram  
Pretty Good 20 FC Infrastructure Map - Additional Production Facilities Diagram  
Pretty Good 20 FC Infrastructure Map - Production Pipeline  
Pretty Good 20 Fed Com 801H Rig Layout - Well Site Diagram  
Pretty Good 20 Fed Com 801H Reclamation - Interim Reclamation





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

## PWD Data Report

01/08/2025

**APD ID:** 10400062665

**Submission Date:** 10/02/2020

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** PRETTY GOOD 20 FED COM

**Well Number:** 801H

**Well Type:** OIL WELL

**Well Work Type:** Drill

### Section 1 - General

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

### Section 2 - Lined

Would you like to utilize Lined Pit PWD options? N

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:**

**PWD disturbance (acres):**

**Lined pit PWD on or off channel:**

**Lined pit PWD discharge volume (bbl/day):**

**Lined pit**

**Pit liner description:**

**Pit liner manufacturers**

**Precipitated solids disposal:**

**Describe 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:** PRETTY GOOD 20 FED COM

**Well Number:** 801H

**Lined pit Monitor description:**

**Lined pit Monitor**

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

**Is the reclamation bond a rider under the BLM bond?**

**Lined pit bond number:**

**Lined pit bond amount:**

**Additional bond information**

### Section 3 - Unlined

**Would you like to utilize Unlined Pit PWD options?** N

**Produced Water Disposal (PWD) Location:**

**PWD disturbance (acres):**

**PWD surface owner:**

**Unlined pit PWD on or off channel:**

**Unlined pit PWD discharge volume (bbl/day):**

**Unlined pit**

**Precipitated solids disposal:**

**Describe precipitated solids disposal:**

**Precipitated solids disposal**

**Unlined pit precipitated solids disposal schedule:**

**Unlined pit precipitated solids disposal schedule**

**Unlined pit reclamation description:**

**Unlined pit reclamation**

**Unlined pit Monitor description:**

**Unlined pit Monitor**

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

**Beneficial use user**

**Estimated depth of the shallowest aquifer (feet):**

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

**TDS lab results:**

**Geologic and hydrologic**

**State**

**Unlined Produced Water Pit Estimated**

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

**Operator Name:** EOG RESOURCES INCORPORATED**Well Name:** PRETTY GOOD 20 FED COM**Well Number:** 801H**Is the reclamation bond a rider under the BLM bond?****Unlined pit bond number:****Unlined pit bond amount:****Additional bond information****Section 4 -****Would you like to utilize Injection PWD options?** N**Produced Water Disposal (PWD) Location:****PWD surface owner:****PWD disturbance (acres):****Injection PWD discharge volume (bbl/day):****Injection well mineral owner:****Injection well type:****Injection well number:****Injection well name:****Assigned injection well API number?****Injection well API number:****Injection well new surface disturbance (acres):****Minerals protection information:****Mineral protection****Underground Injection Control (UIC) Permit?****UIC Permit****Section 5 - Surface****Would you like to utilize Surface Discharge PWD options?** N**Produced Water Disposal (PWD) Location:****PWD surface owner:****PWD disturbance (acres):****Surface discharge PWD discharge volume (bbl/day):****Surface Discharge NPDES Permit?****Surface Discharge NPDES Permit attachment:****Surface Discharge site facilities information:****Surface discharge site facilities map:****Section 6 -****Would you like to utilize Other PWD options?** N**Produced Water Disposal (PWD) Location:****PWD surface owner:****PWD disturbance (acres):****Other PWD discharge volume (bbl/day):**

Operator Name: EOG RESOURCES INCORPORATED

Well Name: PRETTY GOOD 20 FED COM

Well Number: 801H

Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements



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

## Bond Info Data

01/08/2025

**APD ID:** 10400062665

**Submission Date:** 10/02/2020

Highlighted data  
reflects the most  
recent changes  
[Show Final Text](#)

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** PRETTY GOOD 20 FED COM

**Well Number:** 801H

**Well Type:** OIL WELL

**Well Work Type:** Drill

### Bond

**Federal/Indian APD:** FED

**BLM Bond number:**

**BIA Bond number:**

**Do you have a reclamation bond?** NO

**Is the reclamation bond a rider under the BLM bond?**

**Is the reclamation bond BLM or Forest Service?**

**BLM reclamation bond number:**

**Forest Service reclamation bond number:**

**Forest Service reclamation bond**

**Reclamation bond number:**

**Reclamation bond amount:**

**Reclamation bond rider amount:**

**Additional reclamation bond information**

C-102  Submit Electronically Via OCD Permitting	State of New Mexico  Energy, Minerals & Natural Resources Department <b>OIL CONSERVATION DIVISION</b>	Revised July 9, 2024	
		Submittal Type:	<input checked="" type="checkbox"/> Initial Submittal
			<input type="checkbox"/> Amended Report
			<input type="checkbox"/> As Drilled
Property Name and Well Number  <b>PRETTY GOOD 20 FED COM 801H</b>			

## WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <b>30-025-55258</b>	Pool Code <del>98166</del> <b>98258</b>	Pool Name <b>WC-025 S223203A;LWR WOLFCAMP (GAS)</b> <del>WC-025 G-09 S233216K; UPPER WOLFCAMP</del>
Property Code <b>334556</b>	Property Name <b>PRETTY GOOD 20 FED COM</b>	Well Number <b>801H</b>
OGRID No. <b>7377</b>	Operator Name <b>EOG RESOURCES, INC.</b>	Ground Level Elevation <b>3654'</b>
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

## Surface Location

UL or Lot No.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
B	20	22 S	32 E		473 FNL	2061 FEL	N 32.383062°	W 103.694896°	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
P	29	22 S	32 E		100 FSL	660 FEL	N 32.355608°	W 103.690337°	LEA

Different spacing units, wrong pool

Dedicated Acres <b>640</b>	Infill or Defining Well <b>INFILL</b>	Defining Well API <del>30-025-51772</del>	Overlapping Spacing Unit (Y/N) <b>N</b>	Consolidated Code <b>F</b>
Order Numbers <b>COM PENDING, NSP-2207, POOLING ORDER (CASE 24540)</b>			Well Setbacks are under Common Ownership: <input type="checkbox"/> Yes <input type="checkbox"/> No	

Proposed well not included, wrong pool

## 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
A	20	22 S	32 E		50 FNL	660 FEL	N 32.384242°	W 103.690361°	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
A	20	22 S	32 E		100 FNL	660 FEL	N 32.384105°	W 103.690361°	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
P	29	22 S	32 E		100 FSL	660 FEL	N 32.355608°	W 103.690337°	LEA

Unitized Area or Area of Uniform Interest <b>UNITIZED AREA</b>	Spacing Unity Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation <b>3679'</b>
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## 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.

*Star L Harrell* 8/14/25  
Signature Date

Star L Harrell

Print Name

star\_harrell@eogresources.com

E-mail Address

## SURVEYORS CERTIFICATION



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 21, 2025

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



C-102

Submit Electronically  
Via OCD PermittingState 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

PRETTY GOOD 20 FED COM 801H

## SURFACE LOCATION

NEW MEXICO EAST  
NAD 1983  
X=738420' Y=503678'  
LAT=N32.383062°  
LONG=W103.694896°  
NAD 1927  
X=697237' Y=503617'  
LAT=N32.382939°  
LONG=W103.694409°  
473' FNL 2061' FEL

## KOP LOCATION

NEW MEXICO EAST  
NAD 1983  
X=739817' Y=504115'  
LAT=N32.384242°  
LONG=W103.690361°  
NAD 1927  
X=698635' Y=504055'  
LAT=N32.384119°  
LONG=W103.689873°  
50' FNL 660' FEL

## FIRST TAKE POINT

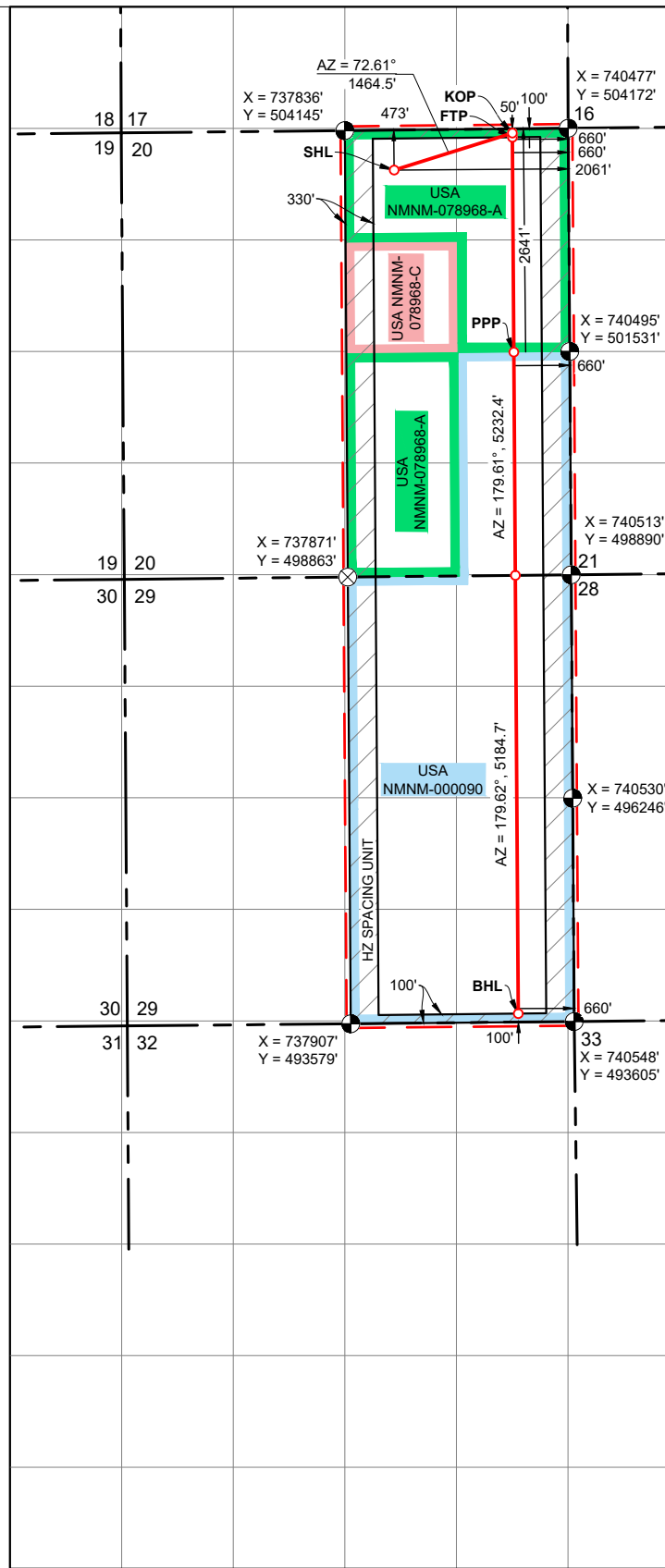
NEW MEXICO EAST  
NAD 1983  
X=739818' Y=504065'  
LAT=N32.384105°  
LONG=W103.690361°  
NAD 1927  
X=698635' Y=504005'  
LAT=N32.383982°  
LONG=W103.689873°  
100' FNL 660' FEL

## PROPOSED PENETRATION POINT

NEW MEXICO EAST  
NAD 1983  
X=739835' Y=501525'  
LAT=N32.377121°  
LONG=W103.690354°  
NAD 1927  
X=698652' Y=501464'  
LAT=N32.376998°  
LONG=W103.689867°  
2641' FNL 660' FEL

LOWER MOST PERF /  
BOTTOM HOLE LOCATION

NEW MEXICO EAST  
NAD 1983  
X=739887' Y=493698'  
LAT=N32.355608°  
LONG=W103.690337°  
NAD 1927  
X=698705' Y=493638'  
LAT=N32.355485°  
LONG=W103.689850°  
100' FSL 660' FEL



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:** 8/7/2025

**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
PRETTY GOOD 20 FED COM 801H		B-20-22S-32E	473' FNL & 2061' FEL	+/- 1000	+/- 3500	+/- 3000

**IV. Central Delivery Point Name:** Pretty Good 20 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
PRETTY GOOD 20 FED COM 801H		10/1/25	10/15/25	1/01/26	2/01/26	3/01/26

**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: *Star L Harrell*

Printed Name: Star L Harrell

Title: Regulatory Advisor

E-mail Address: Star\_Harrell@eogresources.com

Date: 8/7/2025

Phone: (432) 848-9161

**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 will 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.

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

Action 500427

ACKNOWLEDGMENTS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 500427
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.
-------------------------------------	--

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Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
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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

Action 500427

**CONDITIONS**

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 500427
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

**CONDITIONS**

Created By	Condition	Condition Date
jeffrey.harrison	Cement is required to circulate on both surface and intermediate1 strings of casing.	9/23/2025
jeffrey.harrison	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	9/23/2025
jeffrey.harrison	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.	9/23/2025
jeffrey.harrison	All logs run on the well must be submitted to NMOCD.	9/23/2025
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.	9/23/2025
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.	9/23/2025
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.	9/23/2025
jeffrey.harrison	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.	9/23/2025
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.	9/23/2025
jeffrey.harrison	NSP required if not included in an existing order or not an infill to an appropriate defining well in the same pool and spacing unit.	9/23/2025
jeffrey.harrison	Administrative order required for non-standard location prior to production.	9/23/2025