

<b>Well Name:</b> HONEY MUSTARD 22 WA FED COM	<b>Well Location:</b> T24S / R28E / SEC 22 / SWSW / 32.1973417 / -104.0809112	<b>County or Parish/State:</b> EDDY / NM
<b>Well Number:</b> 2H	<b>Type of Well:</b> CONVENTIONAL GAS WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM020360, NMNM20360	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3001546979	<b>Well Status:</b> Approved Application for Permit to Drill	<b>Operator:</b> MARATHON OIL PERMIAN LLC

Notice of Intent

<b>Type of Submission:</b> Notice of Intent	<b>Type of Action</b> Other
<b>Date Sundry Submitted:</b> 03/30/2021	<b>Time Sundry Submitted:</b> 06:42
<b>Date proposed operation will begin:</b> 05/31/2021	
<b>Procedure Description:</b> See attached for a copy of the WIS sundry and attachments submitted in December 2020.	

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

**Procedure Description**

BLM\_Sundry\_Sub\_Honey\_Mustard\_22\_WA\_Fed\_Com\_2H\_APD\_Change\_12.8.2020\_20210330184147.pdf

Conditions of Approval

**Additional Reviews**

Honey\_Mustard\_COAs\_20210416094650.pdf

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Operator Certification

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

<b>Operator Electronic Signature:</b> MELISSA SZUDERA	<b>Signed on:</b> MAR 30, 2021 06:42 PM
<b>Name:</b> MARATHON OIL PERMIAN LLC	
<b>Title:</b> REGULATORY COMPLIANCE REPRESENTATIVE	
<b>Street Address:</b> 5555 San Felipe St.	
<b>City:</b> Houston	<b>State:</b> TX
<b>Phone:</b> (713) 296-3179	
<b>Email address:</b> mszudera@marathonoil.com	

Field Representative

<b>Representative Name:</b>		
<b>Street Address:</b>		
<b>City:</b>	<b>State:</b>	<b>Zip:</b>
<b>Phone:</b>		
<b>Email address:</b>		

BLM Point of Contact

<b>BLM POC Name:</b> CHRISTOPHER WALLS	<b>BLM POC Title:</b> Petroleum Engineer
<b>BLM POC Phone:</b> 5752342234	<b>BLM POC Email Address:</b> cwalls@blm.gov
<b>Disposition:</b> Approved	<b>Disposition Date:</b> 04/30/2021
<b>Signature:</b> Chris Walls	

**PECOS DISTRICT  
SURFACE USE  
CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	Marathon Oil Permian LLC
LEASE NO.:	NMNM020360
COUNTY:	Eddy County, NM

**Wells:**

**Honey Mustard 22 WA Fed Com 2H:**

**Surface Hole Location:** 479' FSL & 1019' FWL, Section 22, T. 24 S., R. 28 E.

**Bottom Hole Location:** 2307' FSL & 1254' FWL, Section 15, T. 24 S, R. 28 E.

**Honey Mustard 22 WXY Fed Com 6H:**

**Surface Hole Location:** 479' FSL & 989' FWL, Section 22, T. 24 S., R. 28 E.

**Bottom Hole Location:** 2306' FSL & 1980' FWL, Section 15, T. 24 S., R. 28 E.

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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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- ☒ **Special Requirements**
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## **I. GENERAL PROVISIONS**

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

## **II. PERMIT EXPIRATION**

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

## **III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES**

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

OR

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

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

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

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



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

#### **IV. NOXIOUS WEEDS**

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

**V. SPECIAL REQUIREMENT(S)****Wildlife (Texas Hornshell Mussel):**

- Provide CEHMM with the permit, lease grant, or other authorization form BLM, if applicable.
- Provide CEHMM with plats or other electronic media describing the new surface disturbance for the project.

**Watershed:**

The entire well pad(s) will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. The compacted berm shall be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The 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.

**Karst:****CONSTRUCTION MITIGATION**

In order to mitigate the impacts from construction activities on cave and karst resources, the following Conditions of Approval will apply to this APD or project:

**General Construction:**

- No blasting
- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, cave passages, or voids are penetrated during construction, and no additional construction shall occur until clearance has been issued by the Authorized Officer.
- All linear surface disturbance activities will avoid sinkholes and other karst features to lessen the possibility of encountering near surface voids during construction, minimize changes to runoff, and prevent untimely leaks and spills from entering the karst drainage system.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

**Pad Construction:**

- The pad will be constructed and leveled by adding the necessary fill and caliche – no blasting.
- The entire perimeter of the well pad 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 high with impermeable mineral material (e.g., caliche).
- No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad.
- The topsoil stockpile shall be located outside the bermed well pad.
- Topsoil, either from the well pad or surrounding area, shall not be used to construct the berm.
- No storm drains, tubing or openings shall be placed in the berm.

- 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.
- 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 access road entering the well pad shall be constructed so that the integrity of the berm height surrounding the well pad is not compromised (i.e. an access road crossing the berm cannot be lower than the berm height).
- Following a rain event, all fluids will be vacuumed off of the pad and hauled off-site and disposed at a proper disposal facility.

#### **Road Construction:**

- Turnout ditches and drainage leadoffs will not be constructed in such a manner as to alter the natural flow of water into or out of cave or karst features.
- Special restoration stipulations or realignment may be required if subsurface features are discovered during construction.

#### **Buried Pipeline/Cable Construction:**

- Rerouting of the buried line(s) may be required if a subsurface void is encountered during construction to minimize the potential subsidence/collapse of the feature(s) as well as the possibility of leaks/spills entering the karst drainage system.

#### **Powerline Construction:**

- Smaller powerlines will be routed around sinkholes and other karst features to avoid or lessen the possibility of encountering near surface voids and to minimize changes to runoff or possible leaks and spills from entering karst systems.
- Larger powerlines will adjust their pole spacing to avoid cave and karst features.
- Special restoration stipulations or realignment may be required if subsurface voids are encountered.

#### **Surface Flowlines Installation:**

- Flowlines will be routed around sinkholes and other karst features to minimize the possibility of leaks/spills from entering the karst drainage system.

### **DRILLING MITIGATION**

Federal regulations and standard Conditions of Approval applied to all APDs require that adequate measures are taken to prevent contamination to the environment. Due to the extreme sensitivity of the cave and karst resources in this project area, the following additional Conditions of Approval will be added to this APD.

To prevent cave and karst resource contamination the following will be required:

- Closed loop system using steel tanks - all fluids and cuttings will be hauled off-site and disposed of properly at an authorized site
- Rotary drilling with fresh water where cave or karst features are expected to prevent contamination of freshwater aquifers.
- Directional drilling is only allowed at depths greater than 100 feet below the cave occurrence zone to prevent additional impacts resulting from directional drilling.
- Lost circulation zones will be logged and reported in the drilling report so BLM can assess the situation and work with the operator on corrective actions.
- Additional drilling, casing, and cementing procedures to protect cave zones and fresh water aquifers. See drilling COAs.

### **PRODUCTION MITIGATION**

In order to mitigate the impacts from production activities and due to the nature of karst terrane, the following Conditions of Approval will apply to this APD:

- Tank battery locations and facilities will be bermed and lined with a 20 mil thick permanent liner that has a 4 oz. felt backing, or equivalent, to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank.
- Development and implementation of a leak detection system to provide an early alert to operators when a leak has occurred.
- Automatic shut off, check valves, or similar systems will be installed for pipelines and tanks to minimize the effects of catastrophic line failures used in production or drilling.

## **RESIDUAL AND CUMULATIVE MITIGATION**

The operator will perform annual pressure monitoring on all casing annuli and reported in a sundry notice. If the test results indicated a casing failure has occurred, remedial action will be taken to correct the problem to the BLM's approval.

## **PLUGGING AND ABANDONMENT MITIGATION**

Upon well abandonment in high cave karst areas additional plugging conditions of approval may be required. The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

## **VI. CONSTRUCTION**

### **A. NOTIFICATION**

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

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

### **B. TOPSOIL**

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

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

### **C. CLOSED LOOP SYSTEM**

Tanks are required for drilling operations: No Pits.

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

**D. FEDERAL MINERAL MATERIALS PIT**

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

**E. WELL PAD SURFACING**

Surfacing of the well pad is not required.

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

**F. EXCLOSURE FENCING (CELLARS & PITS)**

**Exclosure Fencing**

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

**G. ON LEASE ACCESS ROADS**

**Road Width**

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

**Surfacing**

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

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

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

**Crowning**

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

**Ditching**

Ditching shall be required on both sides of the road.

**Turnouts**

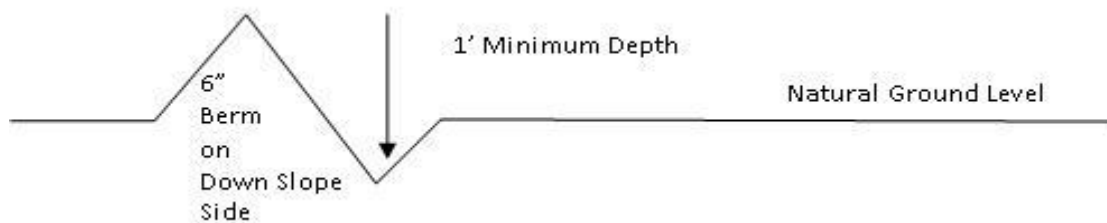
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

### Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outslowing and inslaping, 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).

## VIII. INTERIM RECLAMATION



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

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

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

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

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

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

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

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

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

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

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

**Mixture 4, for Gypsum Sites**

The holder shall seed all the 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>
Alkali Sacaton ( <i>Sporobolus airoides</i> )	1.5
DWS~ Four-wing saltbush ( <i>Atriplex canescens</i> )	8.0

~DWS: DeWinged Seed

\*Pounds of pure live seed:

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

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

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

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office  
☒ AMENDED REPORT  
SHL Change

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-015-46979	<sup>2</sup> Pool Code 98220	<sup>3</sup> Pool Name PURPLE SAGE; WOLFCAMP (GAS)
<sup>4</sup> Property Code	<sup>5</sup> Property Name HONEY MUSTARD 22 WA FED COM	<sup>6</sup> Well Number 2H
<sup>7</sup> OGRID No. 372098	<sup>8</sup> Operator Name MARATHON OIL PERMIAN LLC	<sup>9</sup> Elevation 2998'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	22	24S	28E		479	SOUTH	1019	WEST	EDDY

<sup>11</sup> 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
D	22	24S	28E		100	NORTH	991	WEST	EDDY

<sup>12</sup> Dedicated Acres 320.0	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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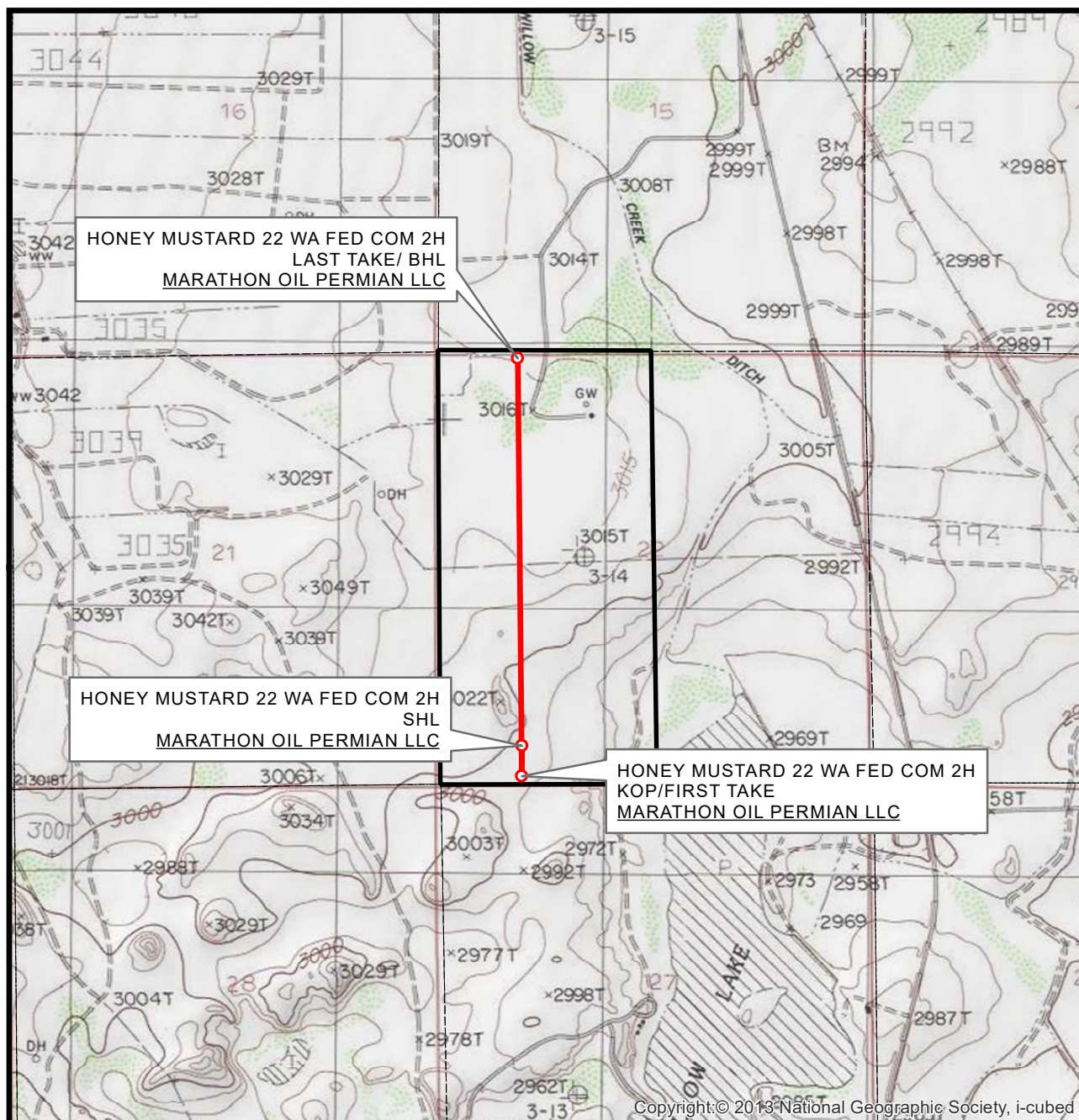
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	<b>CORNER COORDINATES NAD 83, SPCS NM EAST</b> A - X: 618435.00' / Y: 435137.87' B - X: 618403.24' / Y: 440522.49' C - X: 621044.41' / Y: 440514.29' D - X: 621117.44' / Y: 435144.26'	<b>CORNER COORDINATES NAD 27, SPCS NM EAST</b> A - X: 577251.41' / Y: 435079.46' B - X: 577219.77' / Y: 440463.98' C - X: 579860.89' / Y: 440455.75' D - X: 579933.80' / Y: 435085.82'	<b><sup>17</sup> 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 a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.  Signature 12/8/2020 Date Adrian Covarrubias Printed Name  E-mail Address	
	<b>LAST TAKE POINT/BOTTOM HOLE LOCATION</b> 100' FNL 991' FWL, SECTION 22 <b>NAD 83, SPCS NM EAST</b> X: 619394.42' / Y: 440419.41' LAT: 32.21053791N / LON: 104.08094905W <b>NAD 27, SPCS NM EAST</b> X: 578210.93' / Y: 440360.89' LAT: 32.21041628N / LON: 104.08045685W			<b><sup>18</sup> SURVEYOR 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. DECEMBER 8, 2020 Date of Survey Signature and Seal of Professional Surveyor:
	<b>KOP/FIRST TAKE POINT</b> 100' FSL 1011' FWL, SECTION 22 <b>NAD 83, SPCS NM EAST</b> X: 619444.86' / Y: 435240.27' LAT: 32.19630071N / LON: 104.08082530W <b>NAD 27, SPCS NM EAST</b> X: 578261.26' / Y: 435181.85' LAT: 32.19617890N / LON: 104.08033354W			
	<b>SURFACE HOLE LOCATION</b> 479' FSL 1019' FWL, SECTION 22 <b>NAD 83, SPCS NM EAST</b> X: 619447.36' / Y: 435618.88' LAT: 32.19734145N / LON: 104.08081434W <b>NAD 27, SPCS NM EAST</b> X: 578263.77' / Y: 435560.45' LAT: 32.19721965N / LON: 104.08032255W			

Distances/areas relative to NAD 83 Combined Scale Factor: 0.99977572 Convergence Angle: 00°08'09.70192"



# LOCATION VERIFICATION MAP



SEC. 22 TWP. 24-S RGE. 28-E  
SURVEY: N.M.P.M.  
COUNTY: EDDY  
OPERATOR: MARATHON OIL PERMIAN LLC  
DESCRIPTION: 479' FSL & 1019' FWL  
ELEVATION: 2998'  
LEASE: HONEY MUSTARD 22 FED COM  
U.S.G.S. TOPOGRAPHIC MAP: MALAGA, NM.

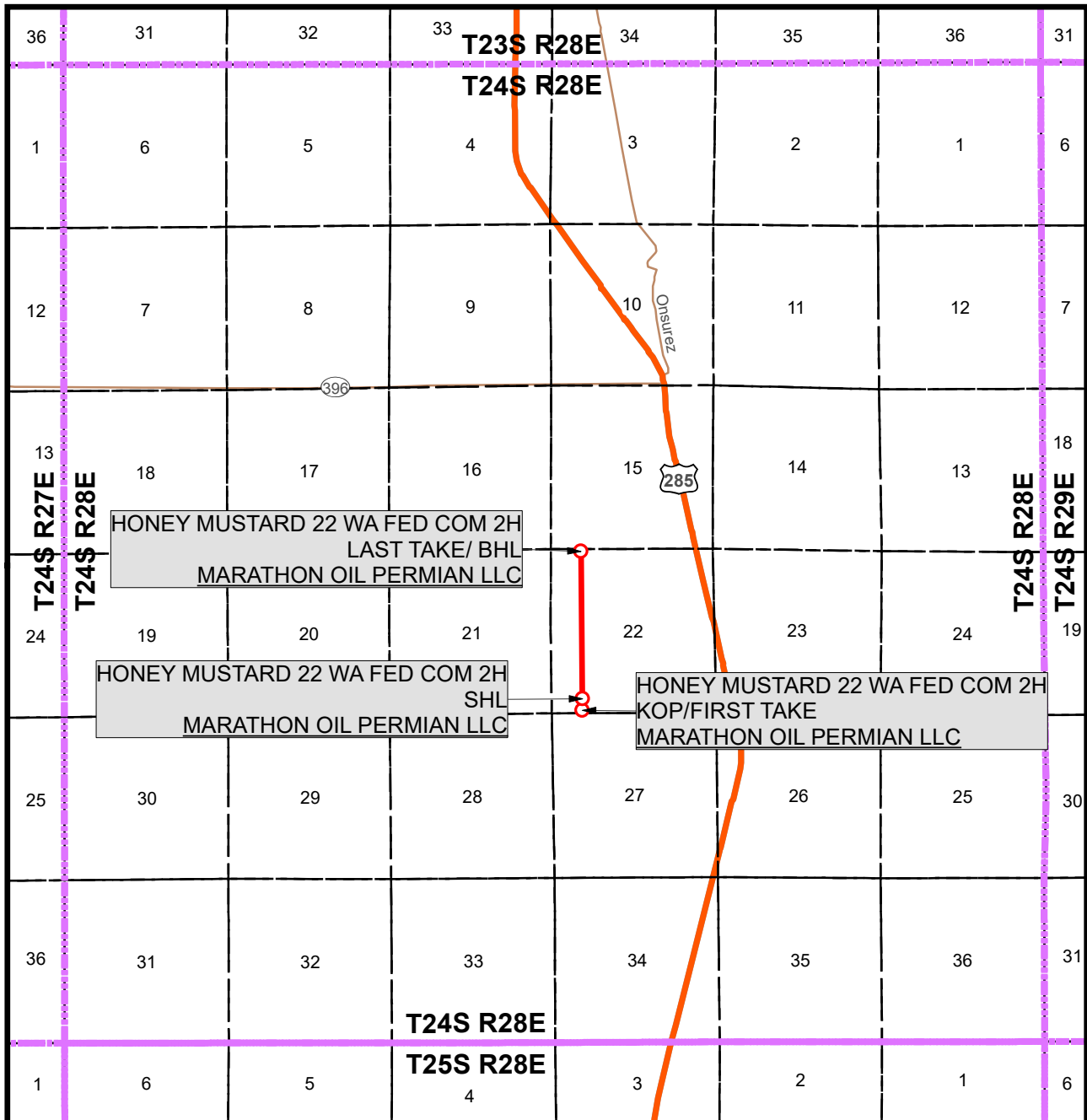
1" = 2,000'  
CONTOUR INTERVAL = 10'



SHEET 2 OF 4

PREPARED BY:  
R-SQUARED GLOBAL, LLC  
1309 LOUISVILLE AVENUE, MONROE, LA 71201  
318-323-6900 OFFICE  
JOB No. R3935\_002

## VICINITY MAP



SEC. 22 TWP. 24-S RGE. 28-E

1" = 1 MILE

SURVEY: N.M.P.M.

COUNTY: EDDY

OPERATOR: MARATHON OIL PERMIAN LLC

DESCRIPTION: 479' FSL &amp; 1019' FWL

ELEVATION: 2998'

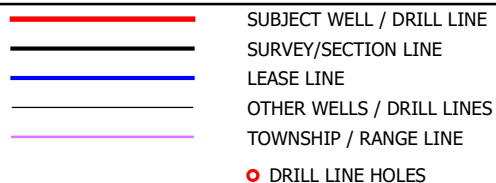
LEASE: HONEY MUSTARD 22 FED COM

U.S.G.S. TOPOGRAPHIC MAP: MALAGA, NM.



SHEET 3 OF 4

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 318-323-6900 OFFICE  
 JOB No. R3935\_002



HONEY MUSTARD 22  
WA FED COM 2H

DATE SURVEYED: 07/26/18

8	12/04/20	DRILL CHANGES	WM	MWS
REV.	DATE	DESCRIPTION		CHKD
SHEET 4 OF 4		1309 LOUISVILLE AVE. MONROE, LA 71201 (318) 323-6900		
DRAWN BY: WHM				
DATE DRAWN: 12/4/2020				
CHECKED BY: MWS				



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# WELL PAD EXISTING TOPO

HONEY MUSTARD 22 FED COM

SEC. 22 TWP. 24-S RGE. 28-E

SURVEY: N.M.P.M.

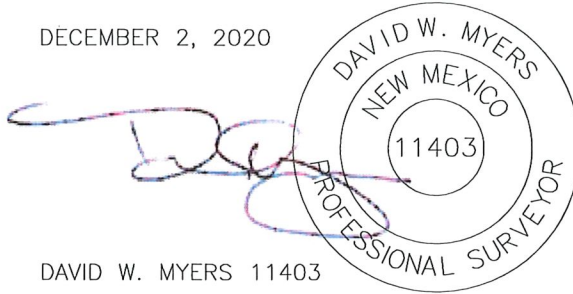
COUNTY: EDDY

OPERATOR: MARATHON OIL PERMIAN LLC

U.S.G.S. TOPOGRAPHIC MAP: MALAGA, N.M.

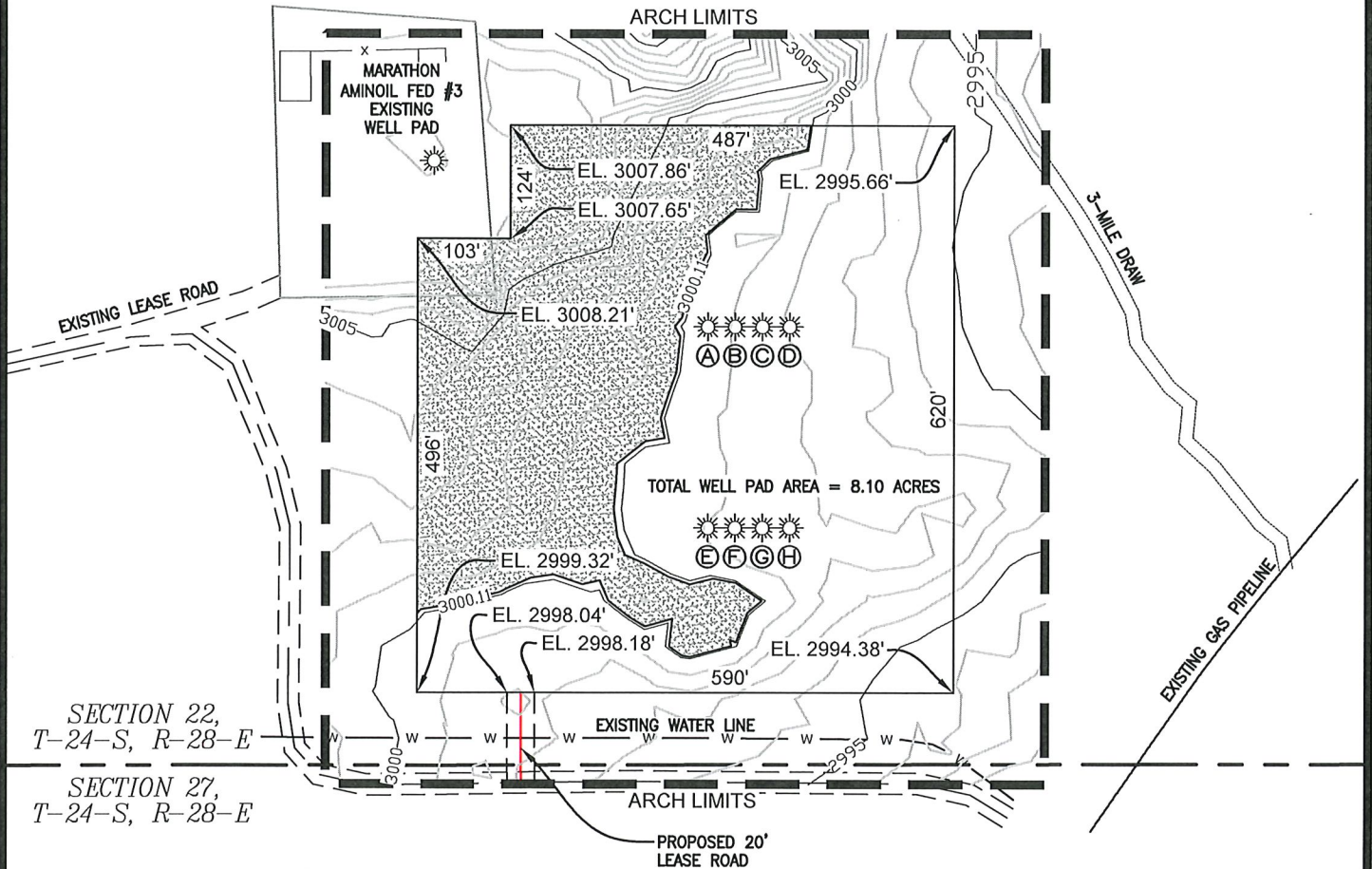
100' 0' 100' 200'  
SCALE: 1" = 200'

DECEMBER 2, 2020



DAVID W. MYERS 11403

I HEREBY CERTIFY THAT THE DIMENSIONS, EXISTING ELEVATIONS AND AREAS SHOWN HEREIN ARE BASED ON RECENT GROUND SURVEYS PERFORMED BY ME OR UNDER MY SUPERVISION RELATIVE TO ENGINEERING DESIGN DATA PROVIDED PREVIOUSLY BY OTHERS. NO WARRANTY IS EXPRESSED HEREIN REGARDING THE ENGINEERING DESIGN DATA PROVIDED.



- A: PROPOSED HONEY MUSTARD 22 WXY FED COM 8H
- B: PROPOSED HONEY MUSTARD 22 WXY FED COM 6H
- C: PROPOSED HONEY MUSTARD 22 WA FED COM 2H
- D: PROPOSED HONEY MUSTARD 22 WA FED COM 9H
- E: PROPOSED HONEY MUSTARD 22 WD FED COM 3H
- F: PROPOSED HONEY MUSTARD 22 WD FED COM 5H
- G: PROPOSED HONEY MUSTARD 22 WD FED COM 11H
- H: PROPOSED HONEY MUSTARD 22 WD FED COM 10H

REV 4 10/28/2020 BFF

LEGEND		FENCE	
PROPOSED PAD SURFACE	—	PROPOSED 1' CONTOUR LINES	— x — x —
ARCH SURVEY LIMITS	—	PROPOSED 5' CONTOUR LINES	—
PROPOSED LEASE ROAD	—	EROSION CONTROL FENCE	— ECF —
EXIST. 1' CONTOUR LINES	—	STORM WATER CONTROL DIVERSION	—
EXIST. 5' CONTOUR LINES	—	DISTURBANCE AREA BOUNDARY	—

SHEET 1 OF 5  
PREPARED BY:  
R-SQUARED GLOBAL, LLC  
1309 LOUISVILLE AVENUE, MONROE, LA 71201  
318-323-6900 OFFICE  
JOB No. R3935\_001



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# WELL PAD CONTOURS

HONEY MUSTARD 22 FED COM

DECEMBER 2, 2020

SEC. 22 TWP. 24-S RGE. 28-E

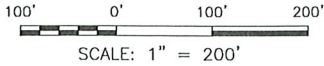
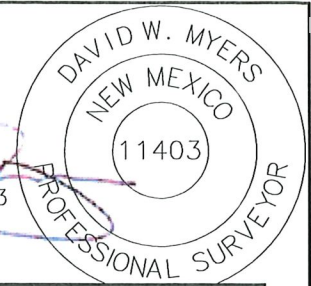
SURVEY: N.M.P.M.

COUNTY: EDDY

DAVID W. MYERS 11403

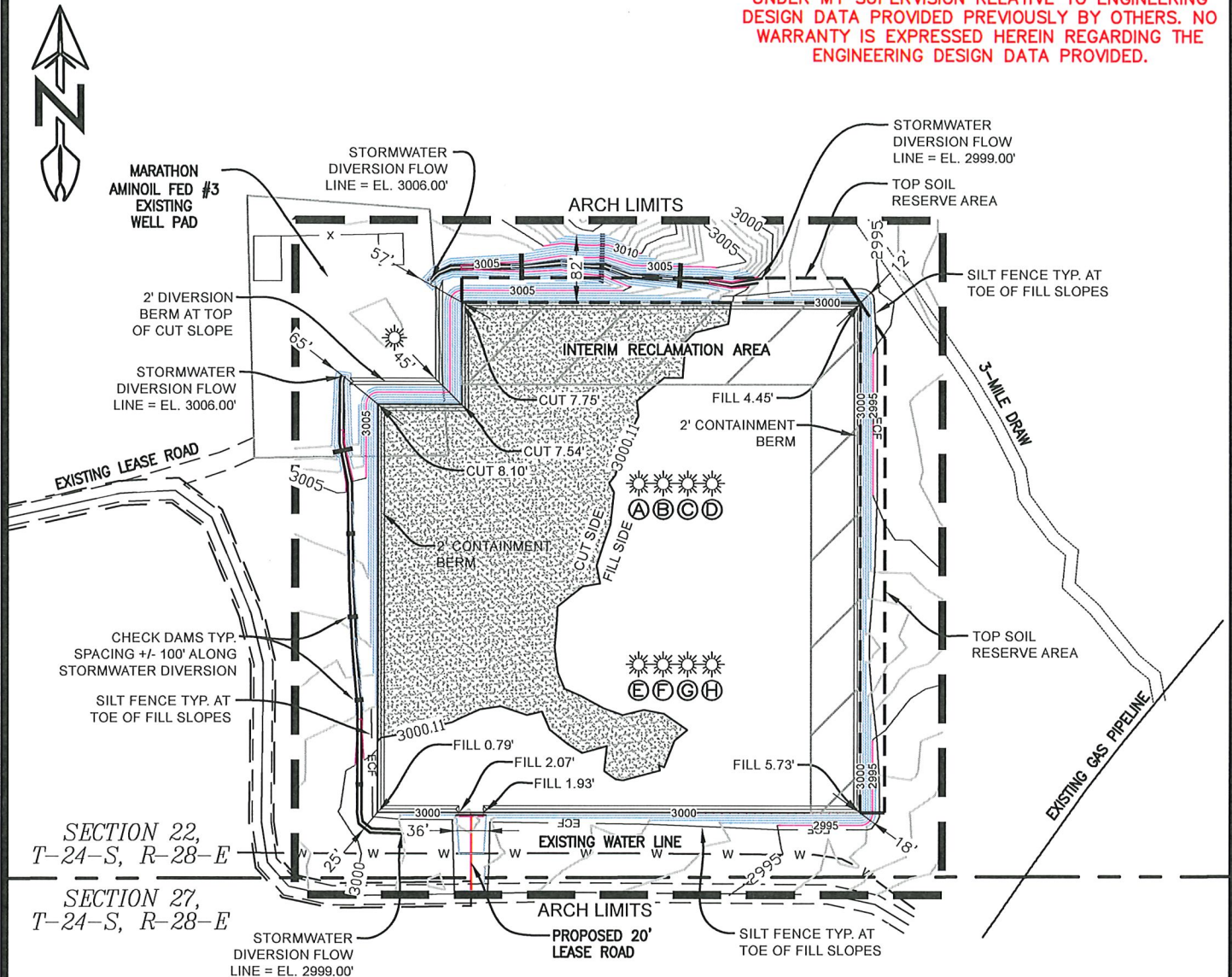
OPERATOR: MARATHON OIL PERMIAN LLC

U.S.G.S. TOPOGRAPHIC MAP: MALAGA, N.M.



PROPOSED SHORT-TERM  
DISTURBANCE AREA = 9.83 ACRES

I HEREBY CERTIFY THAT THE DIMENSIONS, EXISTING ELEVATIONS AND AREAS SHOWN HEREIN ARE BASED ON RECENT GROUND SURVEYS PERFORMED BY ME OR UNDER MY SUPERVISION RELATIVE TO ENGINEERING DESIGN DATA PROVIDED PREVIOUSLY BY OTHERS. NO WARRANTY IS EXPRESSED HEREIN REGARDING THE ENGINEERING DESIGN DATA PROVIDED.



TOTAL CUT VOLUME: 17,997.77 cu yd  
TOTAL FILL VOLUME: 17,875.02 cu yd

- A: PROPOSED HONEY MUSTARD 22 WXY FED COM 8H
- B: PROPOSED HONEY MUSTARD 22 WXY FED COM 6H
- C: PROPOSED HONEY MUSTARD 22 WA FED COM 2H
- D: PROPOSED HONEY MUSTARD 22 WA FED COM 9H
- E: PROPOSED HONEY MUSTARD 22 WD FED COM 3H
- F: PROPOSED HONEY MUSTARD 22 WD FED COM 5H
- G: PROPOSED HONEY MUSTARD 22 WD FED COM 11H
- H: PROPOSED HONEY MUSTARD 22 WD FED COM 10H

REV 4 10/28/2020 BFF

## LEGEND

- |                         |   |                               |           |
|-------------------------|---|-------------------------------|-----------|
| PROPOSED PAD SURFACE    | — | FENCE                         | — x — x — |
| ARCH SURVEY LIMITS      | — | PROPOSED 1' CONTOUR LINES     | —         |
| PROPOSED LEASE ROAD     | — | PROPOSED 5' CONTOUR LINES     | —         |
| EXIST. 1' CONTOUR LINES | — | EROSION CONTROL FENCE         | — ECF —   |
| EXIST. 5' CONTOUR LINES | — | STORM WATER CONTROL DIVERSION | —         |
|                         |   | DISTURBANCE AREA BOUNDARY     | —         |

SHEET 2 OF 5  
PREPARED BY:  
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1309 LOUISVILLE AVENUE, MONROE, LA 71201  
318-323-6900 OFFICE  
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# WELL PAD CROSS SECTIONS

HONEY MUSTARD 22 FED COM DECEMBER 2, 2020

SEC. 22 TWP. 24-S RGE. 28-E

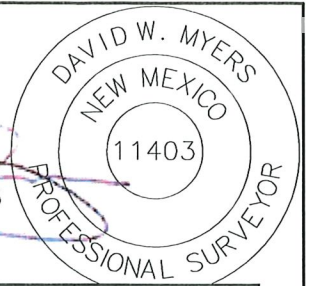
SURVEY: N.M.P.M.

COUNTY: EDDY

DAVID W. MYERS 11403

OPERATOR: MARATHON OIL PERMIAN LLC

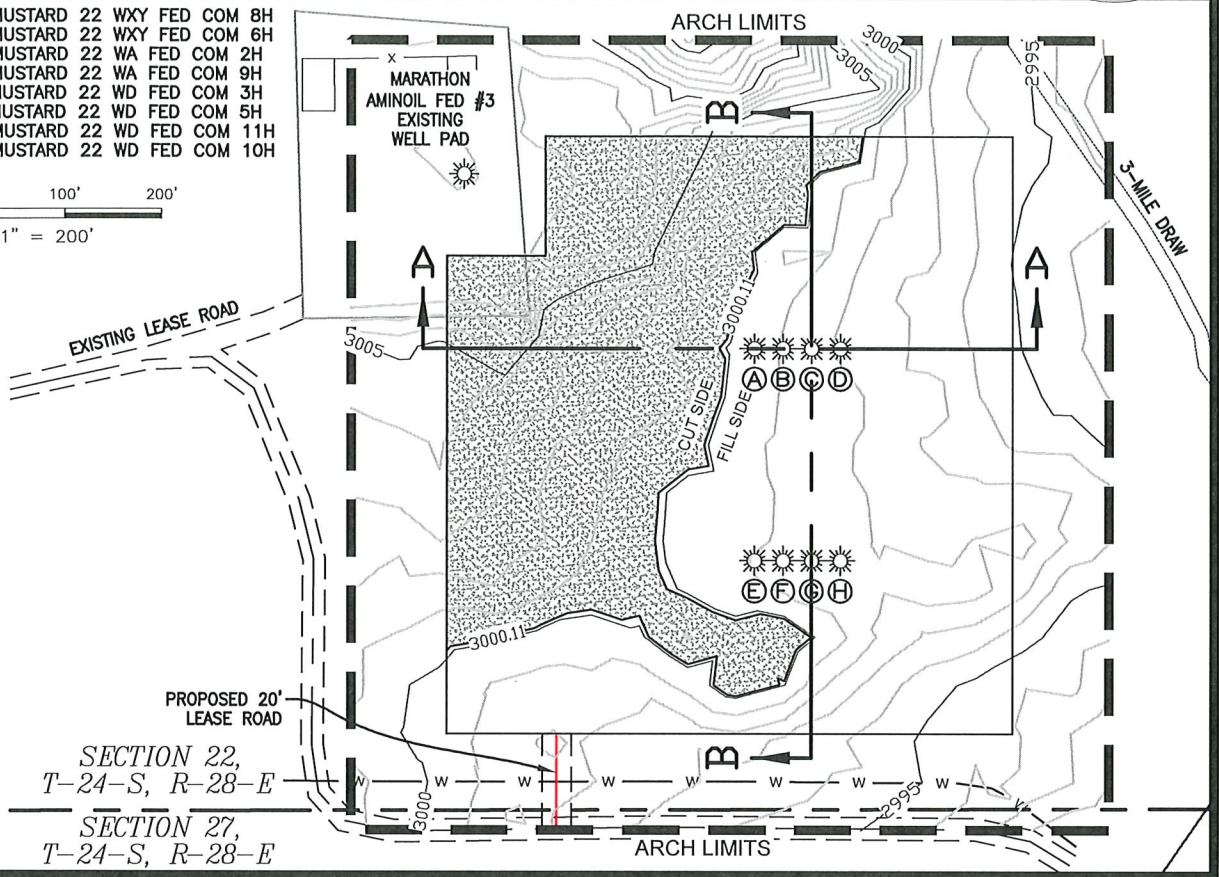
U.S.G.S. TOPOGRAPHIC MAP: MALAGA, N.M.



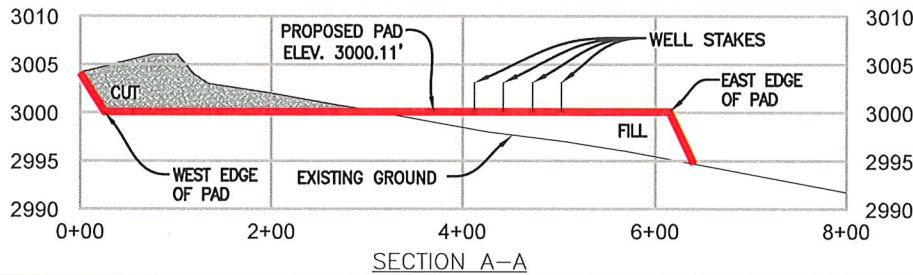
I HEREBY CERTIFY THAT THE DIMENSIONS, EXISTING ELEVATIONS AND AREAS SHOWN HEREIN ARE BASED ON RECENT GROUND SURVEYS PERFORMED BY ME OR UNDER MY SUPERVISION RELATIVE TO ENGINEERING DESIGN DATA PROVIDED PREVIOUSLY BY OTHERS. NO WARRANTY IS EXPRESSED HEREIN REGARDING THE ENGINEERING DESIGN DATA PROVIDED.

- A: PROPOSED HONEY MUSTARD 22 WXY FED COM 8H
- B: PROPOSED HONEY MUSTARD 22 WXY FED COM 6H
- C: PROPOSED HONEY MUSTARD 22 WA FED COM 2H
- D: PROPOSED HONEY MUSTARD 22 WA FED COM 9H
- E: PROPOSED HONEY MUSTARD 22 WD FED COM 3H
- F: PROPOSED HONEY MUSTARD 22 WD FED COM 5H
- G: PROPOSED HONEY MUSTARD 22 WD FED COM 11H
- H: PROPOSED HONEY MUSTARD 22 WD FED COM 10H

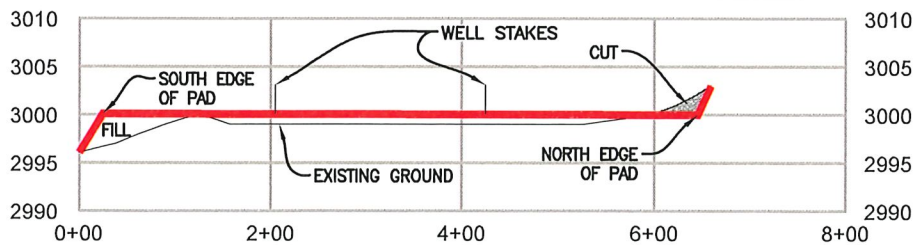
100' 0' 100' 200'  
SCALE: 1" = 200'



REV 4 10/28/2020 BFF



SECTION A-A



SECTION B-B

## LEGEND

- |                         |           |                               |
|-------------------------|-----------|-------------------------------|
| PROPOSED PAD SURFACE    | — x — x — | FENCE                         |
| ARCH SURVEY LIMITS      | — — — — — | PROPOSED 1' CONTOUR LINES     |
| PROPOSED LEASE ROAD     | — — — — — | PROPOSED 5' CONTOUR LINES     |
| EXIST. 1' CONTOUR LINES | — — — — — | EROSION CONTROL FENCE         |
| EXIST. 5' CONTOUR LINES | — — — — — | ECF                           |
|                         | — — — — — | STORM WATER CONTROL DIVERSION |
|                         | — — — — — | DISTURBANCE AREA BOUNDARY     |

HORIZONTAL: 1" = 200'  
VERTICAL: 1" = 20'

SHEET 3 OF 5  
PREPARED BY:  
R-SQUARED GLOBAL, LLC  
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JOB No. R3935\_001





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# INTERIM RECLAMATION PLAT

HONEY MUSTARD 22 FED COM

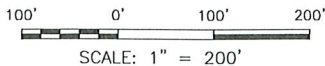
SEC. 22 TWP. 24-S RGE. 28-E

SURVEY: N.M.P.M.

COUNTY: EDDY

OPERATOR: MARATHON OIL PERMIAN LLC

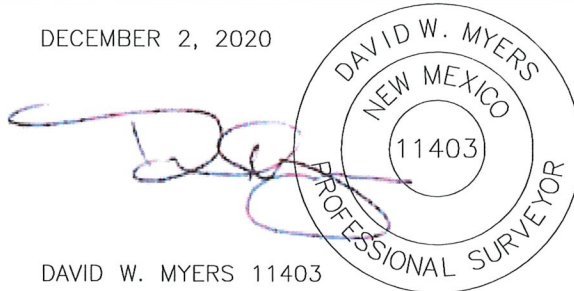
U.S.G.S. TOPOGRAPHIC MAP: MALAGA, N.M.



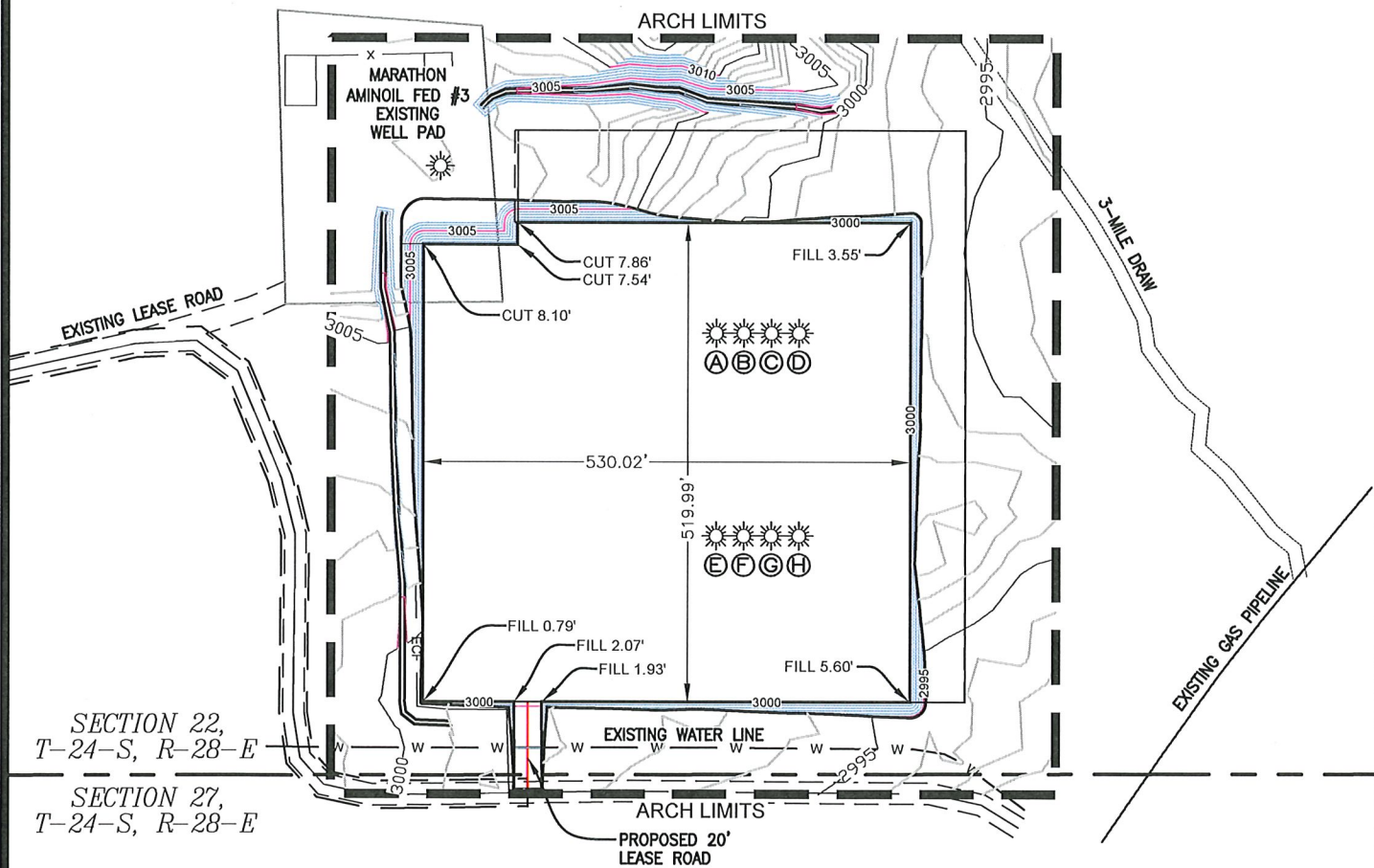
LONG-TERM PAD DISTURBANCE = 6.97 ACRES

DECEMBER 2, 2020

I HEREBY CERTIFY THAT THE DIMENSIONS, EXISTING ELEVATIONS AND AREAS SHOWN HEREIN ARE BASED ON RECENT GROUND SURVEYS PERFORMED BY ME OR UNDER MY SUPERVISION RELATIVE TO ENGINEERING DESIGN DATA PROVIDED PREVIOUSLY BY OTHERS. NO WARRANTY IS EXPRESSED HEREIN REGARDING THE ENGINEERING DESIGN DATA PROVIDED.



DAVID W. MYERS 11403



SECTION 22,  
T-24-S, R-28-E

SECTION 27,  
T-24-S, R-28-E

- A: PROPOSED HONEY MUSTARD 22 WXY FED COM 8H
- B: PROPOSED HONEY MUSTARD 22 WXY FED COM 6H
- C: PROPOSED HONEY MUSTARD 22 WA FED COM 2H
- D: PROPOSED HONEY MUSTARD 22 WA FED COM 9H
- E: PROPOSED HONEY MUSTARD 22 WD FED COM 3H
- F: PROPOSED HONEY MUSTARD 22 WD FED COM 5H
- G: PROPOSED HONEY MUSTARD 22 WD FED COM 11H
- H: PROPOSED HONEY MUSTARD 22 WD FED COM 10H

REV 4 10/28/2020 BFF

LEGEND		FENCE	— x — x —
INTERIM RECLAMATION	— — — — —	PROPOSED 1' CONTOUR LINES	— — — — —
ARCH SURVEY LIMITS	— — — — —	PROPOSED 5' CONTOUR LINES	— — — — —
PROPOSED LEASE ROAD	— — — — —	EROSION CONTROL FENCE	— ECF —
EXIST. 1' CONTOUR LINES	— — — — —	STORM WATER CONTROL DIVERSION	— — — — —
EXIST. 5' CONTOUR LINES	— — — — —	DISTURBANCE AREA BOUNDARY	— — — — —

SHEET 5 OF 5  
PREPARED BY:  
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318-323-6900 OFFICE  
JOB No. R3935\_001



# NEW OR RECONSTRUCTED ACCESS ROADS

HONEY MUSTARD 22 FED COM

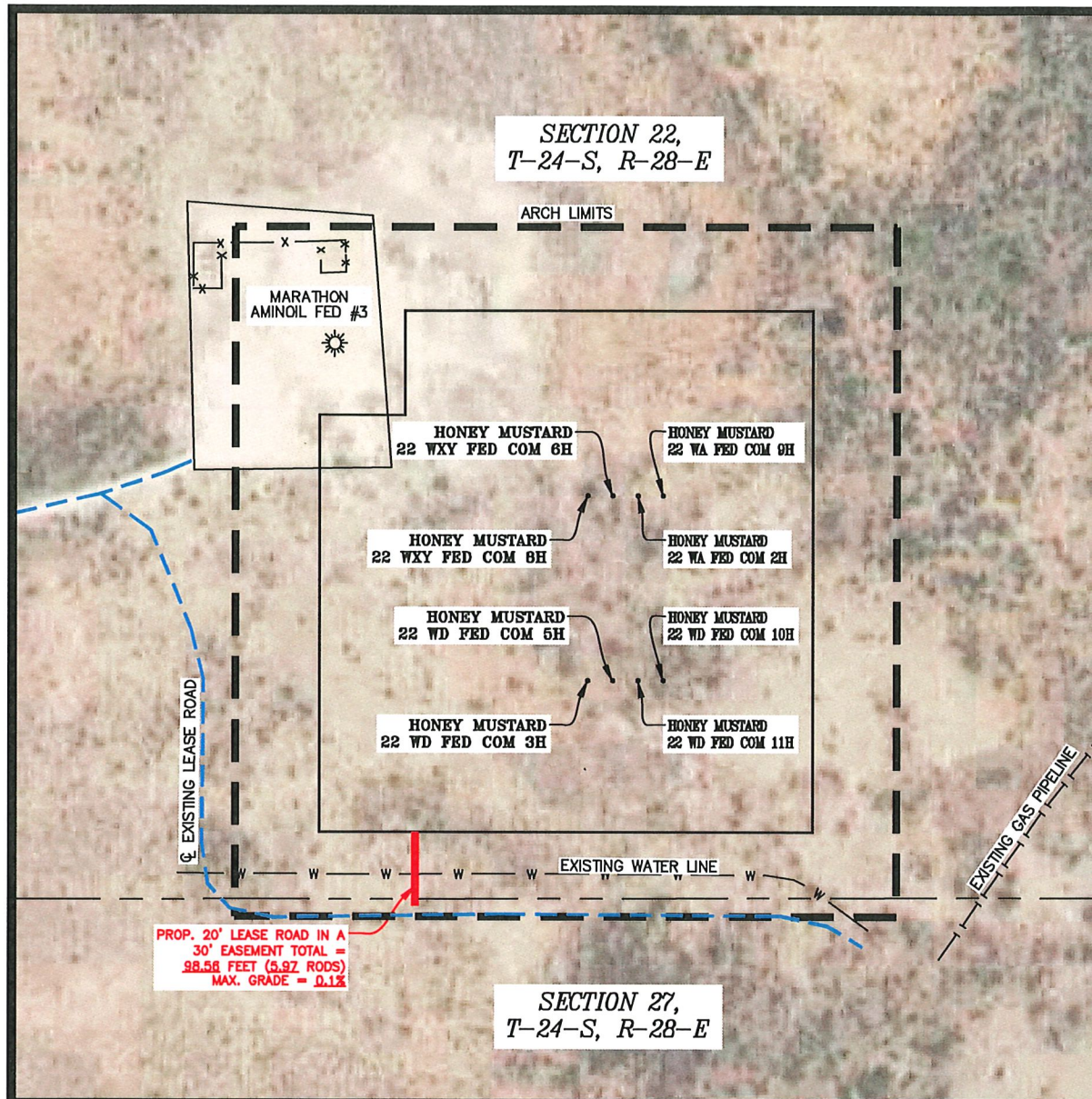
SEC. 22 TWP. 24-S RGE. 28-E

SURVEY: N.M.P.M.

COUNTY: EDDY

OPERATOR: MARATHON OIL PERMIAN LLC

U.S.G.S. TOPOGRAPHIC MAP: MALAGA, N.M.



6	10/29/2020	JCS
REV.	DATE	BY

SCALE: 1" = 200'

## LEGEND

PROPOSED WELL PAD	—————	WATER LINE	— w — w —
ARCH SURVEY LIMITS	- - - - -	EXISTING PIPELINE	- + - + - + -
EXISTING LEASE ROAD	- - - - -	PI/BEND	O
PROPOSED LEASE ROAD	—————	WELLS	•
SECTION LINE	—————		
FENCE	— x — x —		

SHEET 1 OF 8

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318-323-6900 OFFICE  
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# ONE-MILE RADIUS MAP

HONEY MUSTARD 22 FED COM

SEC. 22 TWP. 24-S RGE. 28-E

SURVEY: N.M.P.M.

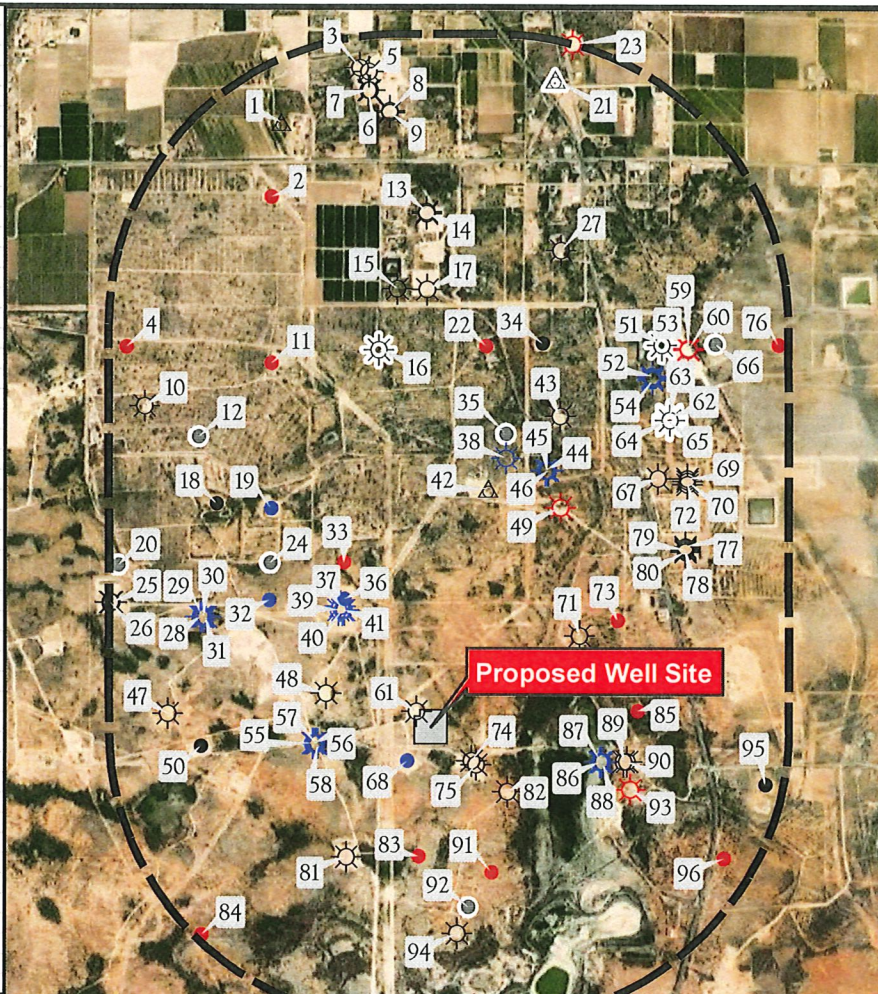
COUNTY: EDDY

OPERATOR: MARATHON OIL PERMIAN LLC

U.S.G.S. TOPOGRAPHIC MAP: MALAGA, NM.



INDEX	WELL
1	CALDERON FARMS SWD #001
2	ZIMA #001
3	TOM MATTHEWS 10 24S 28E RB #223H
4	PRE-ONGARD WELL #001
5	TOM MATTHEWS 10 24S 28E RB #203H
6	CHICAGO 9 8 WOPM FEE #001H
7	CHICAGO 9 8 WOPM FEE #002H
8	TOM MATTHEWS 10 24S 28E RB #224H
9	TOM MATTHEWS 10 24S 28E RB #204H
10	OXY BYPASS 16 ST #001
11	SILVER BULLET #001
12	PARDUE 16 ST #001
13	ANNE COM 15 24S 28E RB #221H
14	ANNE COM 15 24S 28E RB #201H
15	ANNE COM 15 24S 28E RB #202H
16	WILLOW LAKE WA 15 #002C
17	ANNE COM 15 24S 28E RB #222H
18	PARDUE #001Q
19	PARDUE FARMS 21 SWD #001
20	PARDUE FARMS 21 #001
21	ALPHA SWD #001
22	PRE-ONGARD WELL #003
23	KIRKES COM #001
24	PARDUE #001
25	CREEDENCE 21 16 W0ED SC #002H
26	KANSAS 21 28 W0LM FC #002H
27	ANNE COM 15 24S 28E RB #001
28	KANSAS 21 28 W1KN FC #003H
29	CREEDENCE 21 16 W1FC SC #003H
30	CREEDENCE 21 16 W0FC SC #004H
31	KANSAS 21 28 W0KN FC #004H
32	CREEDENCE 21 16 B3GB SC #001H
33	PRE-ONGARD WELL #001
34	WILLOW LAKE 15 #002
35	WILLOW LAKE 15 #004
36	CREEDENCE 21 16 B3HA SC #001H
37	KANSAS 21 28 W0IP FC #002H
38	HONEY MUSTARD 22 WD FC #010H
39	CREEDENCE 21 16 W0HA SC #002H
40	KANSAS 21 28 W2IP FC #001H
41	CREEDENCE 21 16 W0HA SC #001H
42	WILLOW LAKE #001
43	WILLOW LAKE 15 #001
44	CHICKEN FRY 22 WD FC #016H
45	CHICKEN FRY 22 WXY FC #012H
46	CHICKEN FRY FC 24 28 22 WA #015H
47	OXY STENT FED #001
48	OPL NEW ZIPPER FED #001



INDEX	WELL
49	WILLOW LAKE 22 #002
50	STENT 21 FC #002H
51	WILLOW LAKE WC 15 #002C
52	WILLOW LAKE 15 WXY FEE #003H
53	WILLOW LAKE 15 WA FEE #005H
54	WILLOW LAKE 15 WXY FEE #007H
55	CREEDENCE 21 16 W1OB FC #001H
56	CREEDENCE 21 16 W0OB FC #002H
57	CREEDENCE 21 16 W1PA FC #002H
58	CREEDENCE 21 16 W0PA FC #001H
59	WILLOW LAKE WA 15 #001H
60	WILLOW LAKE WC 15 #001H
61	AMINOIL FED #003
62	WILLOW LAKE WA 15 #003C
63	WILLOW LAKE WC 15 #003C
64	WILLOW LAKE WC 15 #004C
65	WILLOW LAKE WA 15 #004C
66	PRE-ONGARD WELL #005
67	CHICKEN FRY FC #001H
68	ROCK SPUR 27 W0DM FC #001H
69	FIDDLE FEE 24 28 23 TB #002H
70	FIDDLE FEE 24 28 23 WA #006H
71	AMINOIL FED #001
72	FIDDLE FEE 24 28 23 WXY #009H
73	PRE-ONGARD WELL #002
74	ROCK SPUR 27 W2CN SC #001H
75	ROCK SPUR 27 W0CN SC #002H
76	PRE-ONGARD WELL #004
77	FIDDLE FEE 24 28 23 WD #007H
78	FIDDLE FEE 24 28 23 WD #008H
79	FIDDLE FEE 24 28 23 WD #003H
80	FIDDLE FEE 24 28 23 WD #004H
81	SALT DRAW 28 FED SWD #001
82	ST V 492 #002
83	PRE-ONGARD WELL #001
84	PRE-ONGARD WELL #001
85	PRE-ONGARD WELL #001
86	ROCK SPUR 27 W1CN SC #001H
87	ROCK SPUR 27 W0BO SC #004H
88	ROCK SPUR 27 W1BO ST #003H
89	ROCK SPUR 27 W0AP ST #002H
90	ROCK SPUR 27 W2AP ST #001H
91	PRE-ONGARD WELL #001
92	BRASKY 27 #001
93	ST V 492 #001
94	MALAGA COM #001
95	IMC #001
96	PRE-ONGARD WELL #001

NEAREST ACTIVE WELL		
8H	AMINOIL FED #003	355'
6H	AMINOIL FED #003	380'
2H	AMINOIL FED #003	406'
9H	AMINOIL FED #003	433'

NEAREST ACTIVE WELL		
3H	AMINOIL FED #003	511'
5H	AMINOIL FED #003	529'
11H	AMINOIL FED #003	548'
10H	AMINOIL FED #003	568'

Source  
CNE  
User

1" = 3,500'

Proposed Well Pad

Arch Survey Limits

Section Line

CO2 Active

CO2 Cancelled

CO2, Plugged

Gas, Active

Gas, Cancelled

Gas, New

Gas, Plugged

Gas, Abandoned

Injection, Active

Injection, New

Injection, Plugged

Salt Water Injection, Cancelled

Injection, Abandoned

Oil, Active

Oil, Cancelled

Oil, New

Oil, Plugged

Oil, Abandoned

Salt Water Injection, Active

Salt Water Injection, New

Salt Water Injection, Plugged

Water, Active

Water, Plugged

SHEET 2 OF 8

PREPARED BY:

RSQUARED GLOBAL, LLC

1309 LOUISVILLE AVENUE, MONROE, LA 71201

318-323-6900 OFFICE

JOB No. R3935\_001



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# WELL PAD PLAT

HONEY MUSTARD 22 FED COM

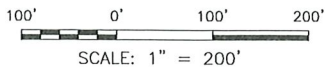
SEC. 22 TWP. 24-S RGE. 28-E

SURVEY: N.M.P.M.

COUNTY: EDDY

OPERATOR: MARATHON OIL PERMIAN LLC

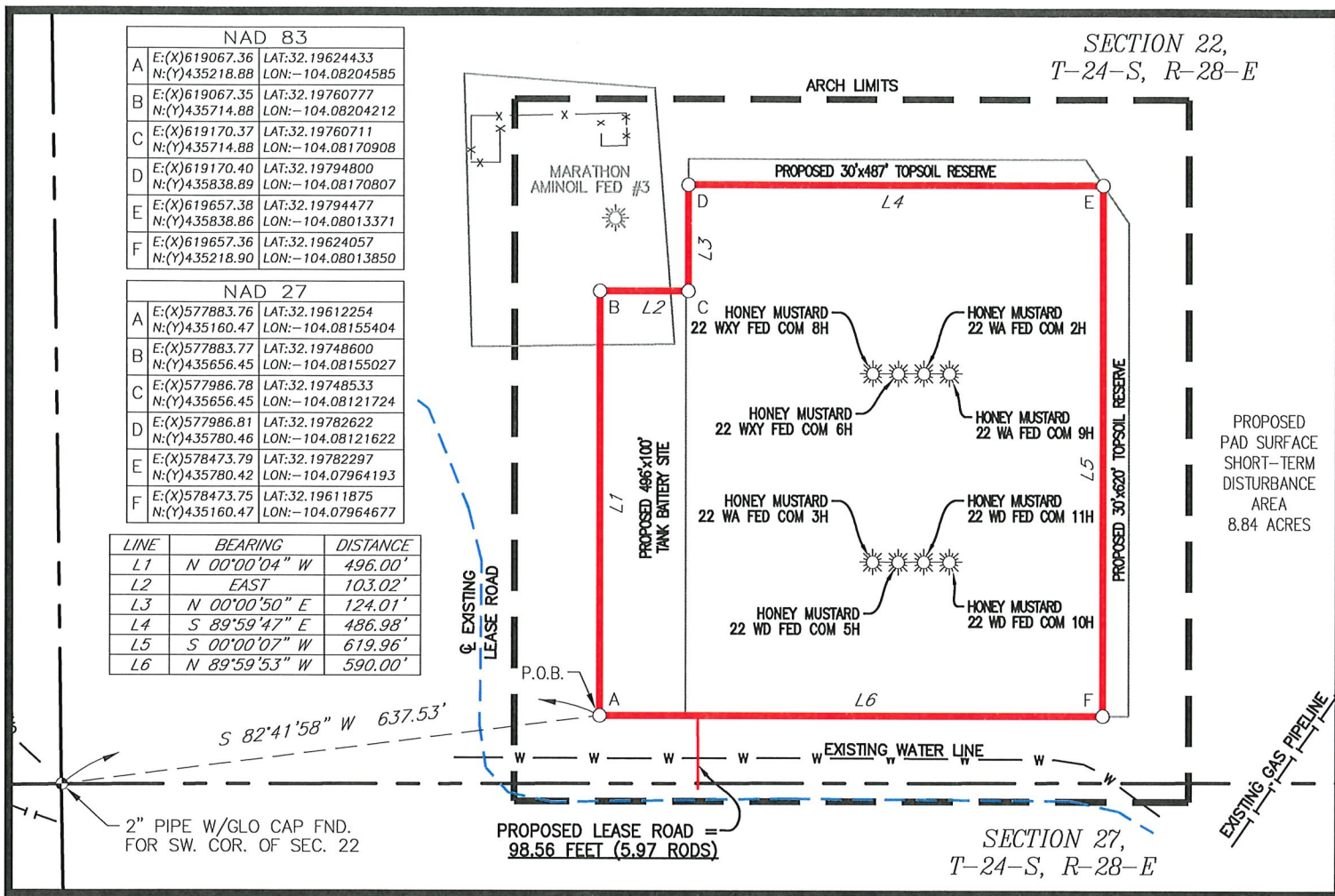
U.S.G.S. TOPOGRAPHIC MAP: MALAGA, N.M.



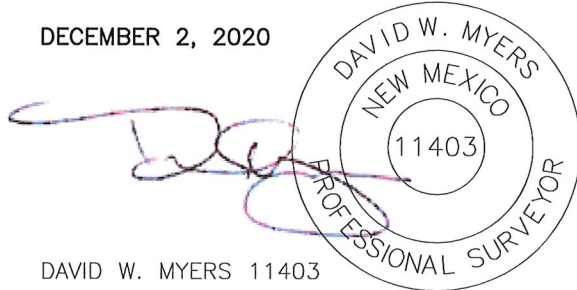
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B	E:(X)619067.35 N:(Y)435714.88	LAT:32.19760777 LON:-104.08204212	
C	E:(X)619170.37 N:(Y)435714.88	LAT:32.19760711 LON:-104.08170908	
D	E:(X)619170.40 N:(Y)435838.89	LAT:32.19794800 LON:-104.08170807	
E	E:(X)619657.38 N:(Y)435838.86	LAT:32.19794477 LON:-104.08013371	
F	E:(X)619657.36 N:(Y)435218.90	LAT:32.19624057 LON:-104.08013850	

NAD 27			
A	E:(X)577883.76 N:(Y)435160.47	LAT:32.19612254 LON:-104.08155404	
B	E:(X)577883.77 N:(Y)435656.45	LAT:32.19748600 LON:-104.08155027	
C	E:(X)577986.78 N:(Y)435656.45	LAT:32.19748533 LON:-104.08121724	
D	E:(X)577986.81 N:(Y)435780.46	LAT:32.19782622 LON:-104.08121622	
E	E:(X)578473.79 N:(Y)435780.42	LAT:32.19782297 LON:-104.07964193	
F	E:(X)578473.75 N:(Y)435160.47	LAT:32.19611875 LON:-104.07964677	

LINE	BEARING	DISTANCE
L1	N 00°00'04" W	496.00'
L2	EAST	103.02'
L3	N 00°00'50" E	124.01'
L4	S 89°59'47" E	486.98'
L5	S 00°00'07" W	619.96'
L6	N 89°59'53" W	590.00'



DECEMBER 2, 2020



DAVID W. MYERS 11403

PLAT FOR A SURFACE SITE ON THE PROPERTY OF SCOTT AND VALERIE BRANSON (N-JT) EDDY COUNTY, NEW MEXICO			
6	10/29/2020	DESIGN CHANGE	JCS MWS
REV.	DATE	DESCRIPTION	BY CHKD
SHEET 3 OF 8			
DRAWN BY: JCS		1309 LOUISVILLE AVE. MONROE, LA 71201 (318) 323-6900	
DATE: 08/08/2018		(318) 362-0064	
CHECKED BY: MWS			

ALL BEARINGS AND COORDINATES  
REFER TO NAD 83, NEW MEXICO  
STATE PLANE COORDINATE  
SYSTEM, EAST ZONE, U.S. SURVEY  
FEET. (ALL BEARINGS AND  
DISTANCES ARE GRID  
MEASUREMENTS.)

LEGEND	P.O.B. POINT OF BEGINNING	R3935_001
— x — x —	ARCH LIMITS	
— x — x —	FENCE	
— x — x —	SECTION LINE	
— x — x —	SALT WATER	
— x — x —	DISPOSAL	
— x — x —	WATER LINE	
— x — x —	MONUMENT	
— x — x —	QUARTER SPLIT	

Page 27 of 33  
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# WELL PAD PLAT

HONEY MUSTARD 22 FED COM

SEC. 22 TWP. 24-S RGE. 28-E

SURVEY: N.M.P.M.

COUNTY: EDDY

OPERATOR: MARATHON OIL PERMIAN LLC

U.S.G.S. TOPOGRAPHIC MAP: MALAGA, N.M.

## FIELD NOTES DESCRIBING

*A tract of land being 8.10 acres. Said tract being located in Section 22, Township 24 South, Range 28 East, New Mexico Principal Meridian, Eddy County, New Mexico.*

Being more particularly described by metes and bounds as follows:

*BEGINNING* at a point from which a 2 inch pipe with GLO cap found for the Southwest corner of said Section 22 bears S 82°41'58" W a distance of 637.53 feet.

### THENCE

N 00°00'04" W a distance of 496.00 feet, EAST a distance of 103.02 feet,  
N 00°00'50" E a distance of 124.01 feet, S 89°59'47" E a distance of 486.98 feet,  
S 00°00'07" W a distance of 619.96 feet and N 89°59'53" W a distance of 590.00 feet to the  
*POINT OF BEGINNING.*

The total area of the herein described tract contains 8.10 acres of land.

All bearings and coordinates refer to NAD 83, New Mexico State Plane Coordinate System, East Zone, U.S. Survey Feet. (All bearings and distances are grid measurements.)

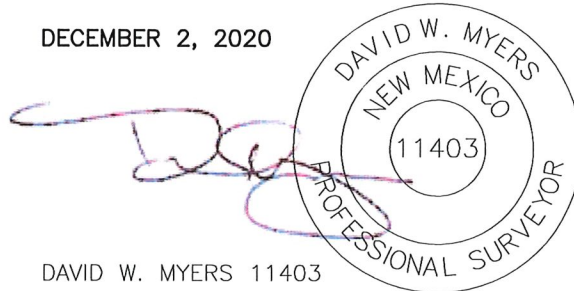
Title information furnished by Marathon Oil Permian LLC.

Reference accompanying Certificate of Survey prepared in conjunction with this legal description for easement.

STATE OF NEW MEXICO  
COUNTY OF EDDY

I, David W. Myers, New Mexico Professional Surveyor No. 11403, do hereby certify that this easement survey plat and the actual survey on the ground upon which it is based were performed by me or under my direct supervision; that I am responsible for this survey; that this survey meets the minimum standards for surveying in New Mexico; and that it is true and correct to the best of my knowledge and belief. 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 survey plat crossing an existing tract or tracts.

DECEMBER 2, 2020



DAVID W. MYERS 11403



PLAT FOR A SURFACE SITE ON THE PROPERTY OF  
SCOTT AND VALERIE  
BRANSON (N-JT)  
EDDY COUNTY, NEW MEXICO

6	10/29/2020	DESIGN CHANGE	JCS	MWS
REV.	DATE	DESCRIPTION	BY	CHKD
		SHEET 4 OF 8		
		DRAWN BY: JCS		
		DATE: 08/08/2018		
		CHECKED BY: MWS		



1309 LOUISVILLE AVE.  
MONROE, LA 71201  
(318) 323-6900  
FAX (318) 362-0064

ALL BEARINGS AND COORDINATES  
REFER TO NAD 83, NEW MEXICO  
STATE PLANE COORDINATE  
SYSTEM, EAST ZONE, U.S. SURVEY  
FEET. (ALL BEARINGS AND  
DISTANCES ARE GRID  
MEASUREMENTS.)

LEGEND	P.O.B. POINT OF BEGINNING	R3935_001
EXISTING ROAD	ARCH LIMITS	
PROPOSED ROAD	FENCE	
SURFACE SITE EDGE	SECTION LINE	
EXIST. PIPELINE	SALT WATER DISPOSAL	
MONUMENT	WATER LINE	
QUARTER SPLIT		

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# LEGEND

# WELL LOCATION PLAT



PROPOSED WELL PAD ———  
 ARCH SURVEY LIMITS ———  
 PROPOSED LEASE ROAD ———  
 EXISTING LEASE ROAD ———  
 FENCE — x — x —

HONEY MUSTARD 22 FED COM

SEC. 22 TWP. 24-S RGE. 28-E

SURVEY: N.M.P.M.

COUNTY: EDDY

OPERATOR: MARATHON OIL PERMIAN LLC

U.S.G.S. TOPOGRAPHIC MAP: MALAGA, N.M.

HONEY MUSTARD 22 WXY FED COM 8H  
 MARATHON OIL PERMIAN LLC  
 479' FSL 959' FWL, SECTION 22  
 NAD 83, SPCS NM EAST  
 X:619387.38' / Y:435618.88'  
 LAT:32.19734181N / LON:-104.08100825W  
 NAD 27, SPCS NM EAST  
 X:578203.79' / Y:435560.45'  
 LAT:32.19722002N / LON:-104.08051645W  
 ELEVATION = 3000'

HONEY MUSTARD 22 WXY FED COM 6H  
 MARATHON OIL PERMIAN LLC  
 479' FSL 989' FWL, SECTION 22  
 NAD 83, SPCS NM EAST  
 X:619417.38' / Y:435618.92'  
 LAT:32.19734173N / LON:-104.08091127W  
 NAD 27, SPCS NM EAST  
 X:578233.78' / Y:435560.49'  
 LAT:32.19721993N / LON:-104.08041948W  
 ELEVATION = 2999'

HONEY MUSTARD 22 WA FED COM 2H  
 MARATHON OIL PERMIAN LLC  
 479' FSL 1019' FWL, SECTION 22  
 NAD 83, SPCS NM EAST  
 X:619447.36' / Y:435618.88'  
 LAT:32.19734145N / LON:-104.08081434W  
 NAD 27, SPCS NM EAST  
 X:578263.77' / Y:435560.45'  
 LAT:32.19721965N / LON:-104.08032255W  
 ELEVATION = 2998'

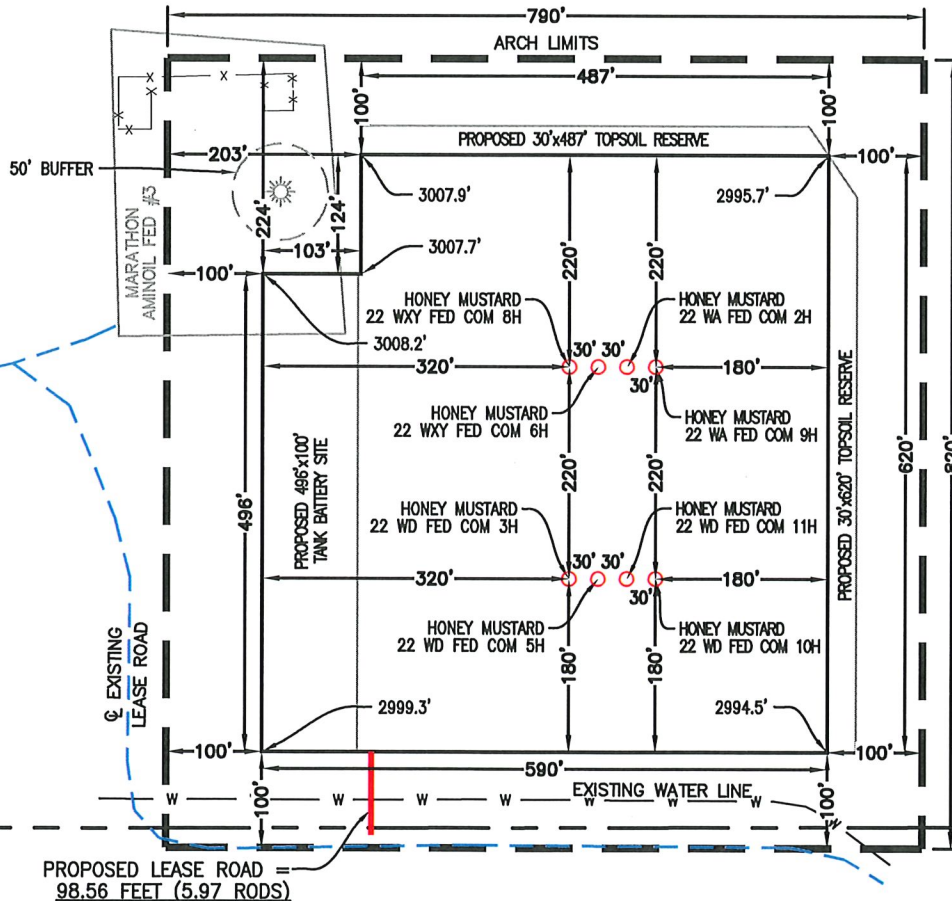
HONEY MUSTARD 22 WA FED COM 9H  
 MARATHON OIL PERMIAN LLC  
 479' FSL 1049' FWL, SECTION 22  
 NAD 83, SPCS NM EAST  
 X:619477.36' / Y:435618.88'  
 LAT:32.19734120N / LON:-104.08071737W  
 NAD 27, SPCS NM EAST  
 X:578293.76' / Y:435560.43'  
 LAT:32.19721940N / LON:-104.08022559W  
 ELEVATION = 2998'

HONEY MUSTARD 22 WD FED COM 3H  
 MARATHON OIL PERMIAN LLC  
 259' FSL 956' FWL, SECTION 22  
 NAD 83, SPCS NM EAST  
 X:619387.37' / Y:435398.87'  
 LAT:32.19673706N / LON:-104.08100995W  
 NAD 27, SPCS NM EAST  
 X:578203.77' / Y:435340.45'  
 LAT:32.19661525N / LON:-104.08051817W  
 ELEVATION = 2999'

HONEY MUSTARD 22 WD FED COM 5H  
 MARATHON OIL PERMIAN LLC  
 259' FSL 986' FWL, SECTION 22  
 NAD 83, SPCS NM EAST  
 X:619417.38' / Y:435398.82'  
 LAT:32.19673672N / LON:-104.08091293W  
 NAD 27, SPCS NM EAST  
 X:578233.78' / Y:435340.40'  
 LAT:32.19661491N / LON:-104.08042116W  
 ELEVATION = 2999'

HONEY MUSTARD 22 WD FED COM 11H  
 MARATHON OIL PERMIAN LLC  
 259' FSL 1016' FWL, SECTION 22  
 NAD 83, SPCS NM EAST  
 X:619447.39' / Y:435398.88'  
 LAT:32.19673668N / LON:-104.08081591W  
 NAD 27, SPCS NM EAST  
 X:578263.79' / Y:435340.45'  
 LAT:32.19661487N / LON:-104.08032414W  
 ELEVATION = 2998'

HONEY MUSTARD 22 WD FED COM 10H  
 MARATHON OIL PERMIAN LLC  
 259' FSL 1046' FWL, SECTION 22  
 NAD 83, SPCS NM EAST  
 X:619477.41' / Y:435398.89'  
 LAT:32.19673650N / LON:-104.08071888W  
 NAD 27, SPCS NM EAST  
 X:578293.81' / Y:435340.46'  
 LAT:32.19661469N / LON:-104.08022711W  
 ELEVATION = 2998'

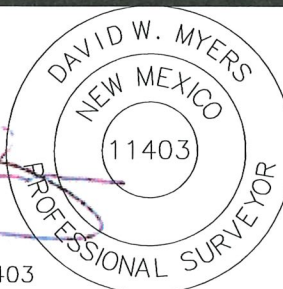


SECTION 22,  
 T-24-S, R-28-E

SECTION 27,  
 T-24-S, R-28-E

NOTE:  
 THIS IS NOT A BOUNDARY SURVEY,  
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 INFORMATION ONLY. BOUNDARY DATA SHOWN  
 IS FROM STATE OF NEW MEXICO OIL  
 CONSERVATION DIVISION FORM C-102  
 INCLUDED IN THIS SUBMITTAL.

DECEMBER 2, 2020

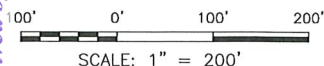


REV.	DATE	BY
6	10/29/2020	JCS

SHEET 5 OF 8

PREPARED BY:  
 R-SQUARED GLOBAL, LLC  
 1309 LOUISVILLE AVENUE, MONROE, LA 71201  
 318-323-6900 OFFICE  
 JOB No. R3935\_001

DAVID W. MYERS 11403



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# VICINITY AND EXISTING ROADS MAP

HONEY MUSTARD 22 FED COM

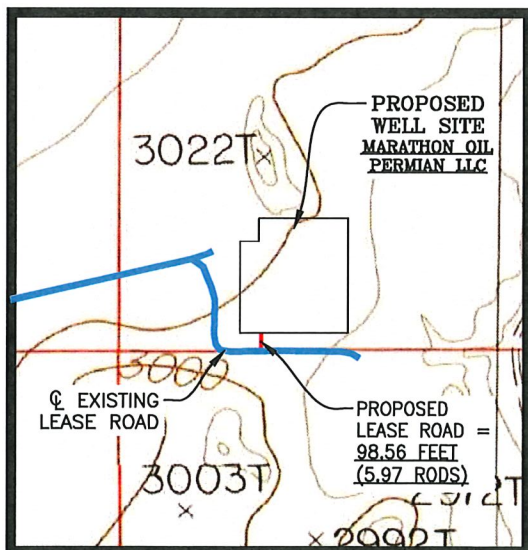
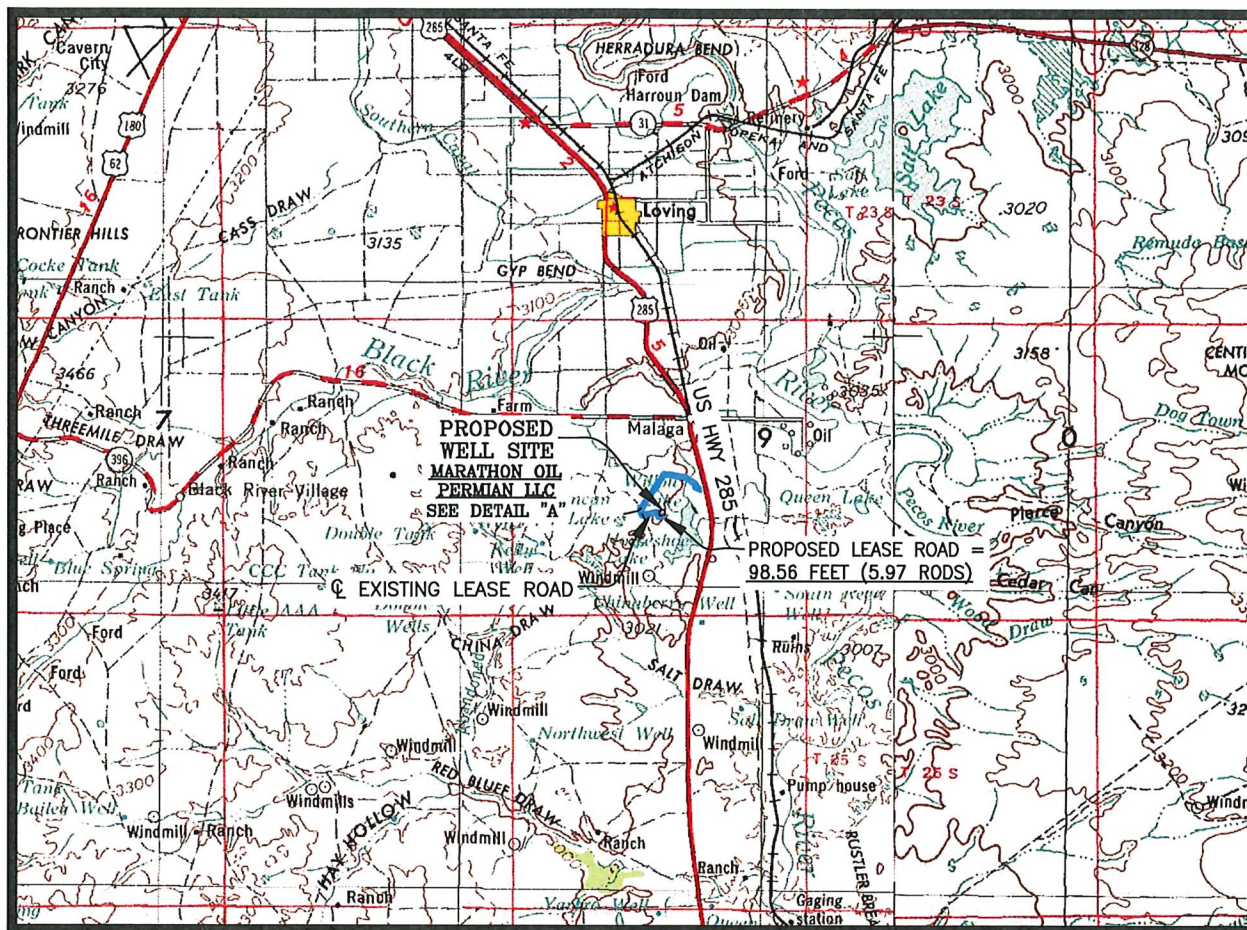
SEC. 22 TWP. 24-S RGE. 28-E

SURVEY: N.M.P.M.

COUNTY: EDDY

OPERATOR: MARATHON OIL PERMIAN LLC

U.S.G.S. TOPOGRAPHIC MAP: MALAGA, N.M.



DETAIL A  
N.T.S.

SCALE: 1" = 20,000'  
CONTOUR INTERVAL = 100'

## DIRECTIONS TO LOCATION:

FROM THE MARATHON OFFICE AT 4111 TIDWELL, CARLSBAD, NM HEAD SOUTH ON TIDWELL RD TOWARD US HWY 285 N FOR 0.2 MILES. TURN LEFT ONTO US HWY 285 S, HEADING SOUTH, FOR 13.8 MILES TO A CALICHE ROAD. TURN RIGHT ONTO CALICHE ROAD, HEADING WEST, FOR 0.9 MILES TO THE INTERSECTION OF CALICHE ROADS. TURN LEFT ONTO CALICHE ROAD, HEADING SOUTH, FOR 0.1 MILES TO THE INTERSECTION WITH A CALICHE ROAD. TURN LEFT ONTO CALICHE ROAD, HEADING EAST, FOR 0.2 MILES TO THE INTERSECTION WITH A CALICHE LEASE ROAD. KEEP RIGHT, HEADING SOUTH, FOR 0.1 MILES TO THE INTERSECTION WITH THE PROPOSED LEASE ROAD FOR THE HONEY MUSTARD 22 FED COM WXY8H-WA2H-WXY6H-WA9H-WD3H-WD5H-WD11H-WD10H WELL PAD LOCATION. TURN LEFT ONTO SAID PROPOSED LEASE ROAD, HEADING NORTH, FOR 99 FEET, ENTERING THE SOUTHWEST CORNER OF SAID WELL PAD LOCATION.

SHEET 6 OF 8

PREPARED BY:  
R-SQUARED GLOBAL, LLC  
1309 LOUISVILLE AVENUE, MONROE, LA 71201  
318-323-6900 OFFICE  
JOB No. R3936\_001

6	10/29/2020	JCS
RBV.	DATE	BY

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# LEGEND

- PROPOSED WELL PAD
- PERMANENT EASEMENT
- PROPOSED LEASE ROAD
- EXISTING LEASE ROAD

## RIG LAYOUT

HONEY MUSTARD 22 FED COM

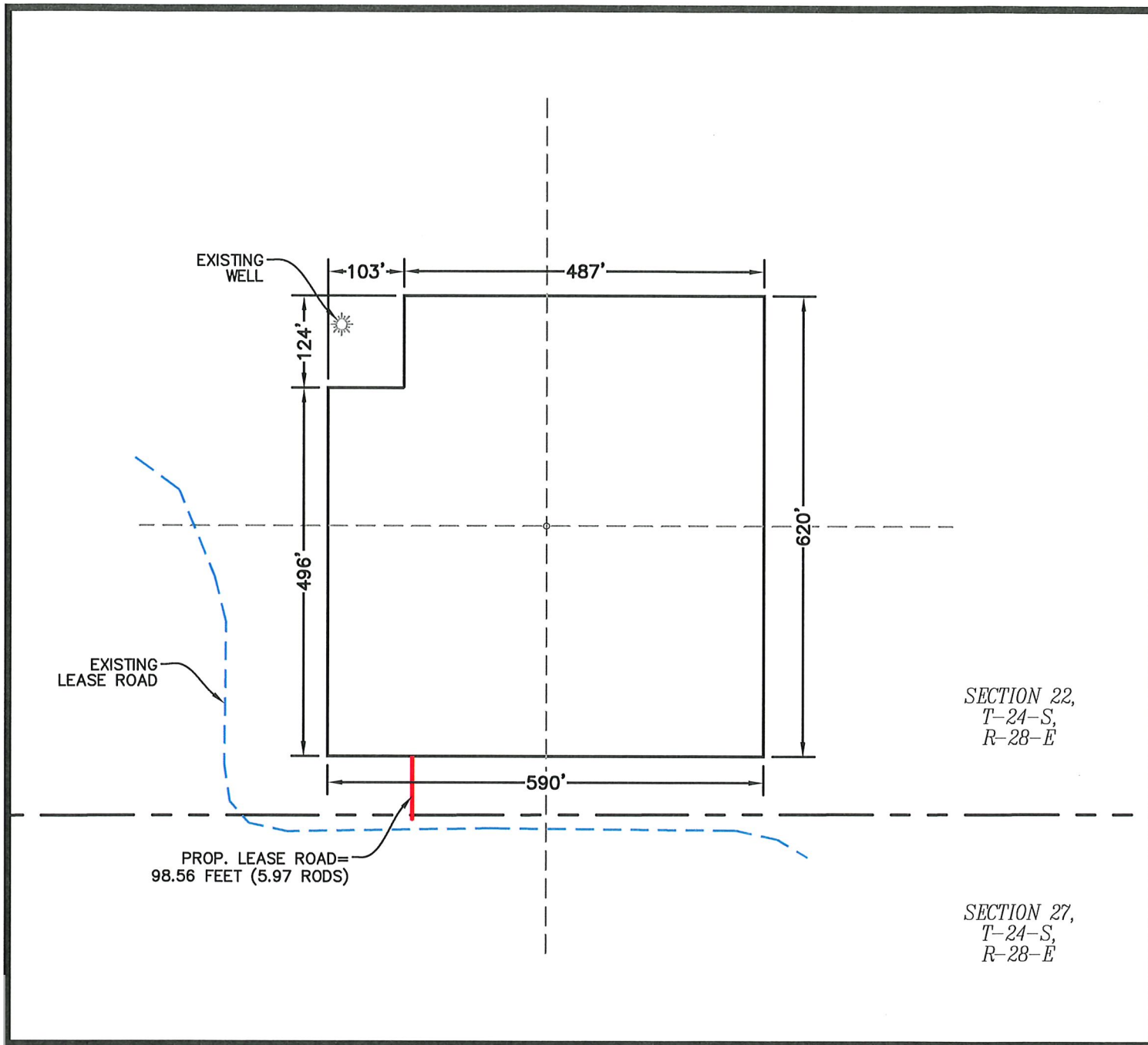
SEC. 22 TWP. 24-S RGE. 28-E

SURVEY: N.M.P.M.

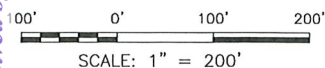
COUNTY: EDDY

OPERATOR: MARATHON OIL PERMIAN LLC

U.S.G.S. TOPOGRAPHIC MAP: MALAGA, N.M.



NOTE:  
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PROPERTY LINES ARE SHOWN FOR  
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CONSERVATION DIVISION FORM C-102  
INCLUDED IN THIS SUBMITTAL.



SCALE: 1" = 200'

SHEET 7 OF 8

PREPARED BY:  
R-SQUARED GLOBAL, LLC  
1309 LOUISVILLE AVENUE,  
MONROE, LA 71201  
318-323-6900 OFFICE  
JOB No. R3935\_001

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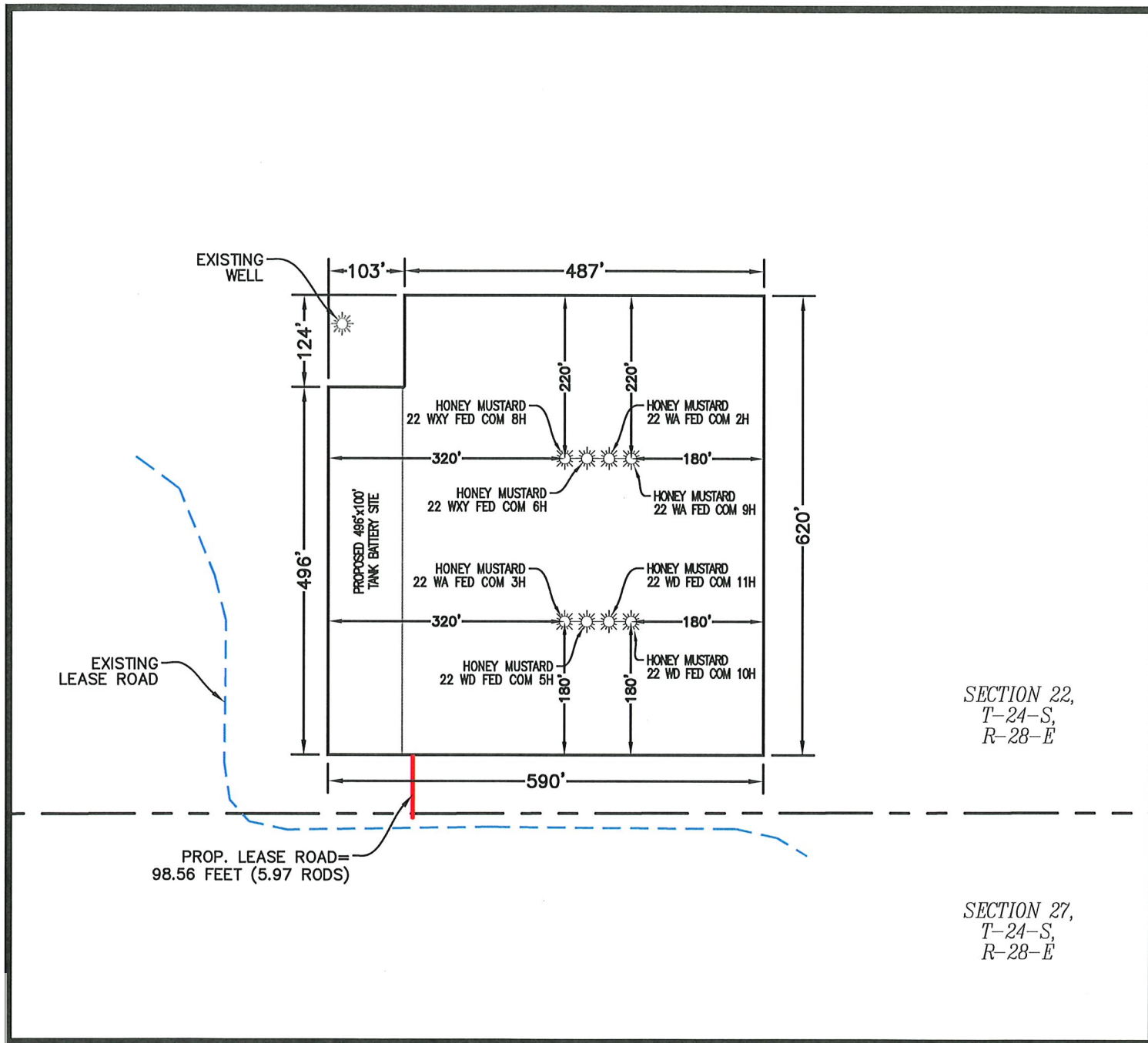
Page 31 of 33  
Received by OCD: 5/7/2021 8:45:34 AM

# LEGEND

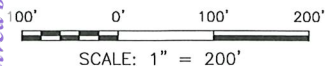
- PROPOSED WELL PAD
- PERMANENT EASEMENT
- PROPOSED LEASE ROAD
- EXISTING LEASE ROAD

## FACILITY LAYOUT

HONEY MUSTARD 22 FED COM  
SEC. 22 TWP. 24-S RGE. 28-E  
SURVEY: N.M.P.M.  
COUNTY: EDDY  
OPERATOR: MARATHON OIL PERMIAN LLC  
U.S.G.S. TOPOGRAPHIC MAP: MALAGA, N.M.



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CONSERVATION DIVISION FORM C-102  
INCLUDED IN THIS SUBMITTAL.



SHEET 8 OF 8

PREPARED BY:  
R-SQUARED GLOBAL, LLC  
1309 LOUISVILLE AVENUE,  
MONROE, LA 71201  
318-323-6900 OFFICE  
JOB No. R3935\_001

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**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

COMMENTS  
  
Action 27267

COMMENTS

Operator: MARATHON OIL PERMIAN LLC 5555 San Felipe St. Houston, TX 77056	OGRID: 372098
	Action Number: 27267
	Action Type: [C-103] NOI Change of Plans (C-103A)

COMMENTS

Created By	Comment	Comment Date
jagarcia	Accepted for Record	5/26/2021

**District I**

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

**District II**

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

**District III**

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

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 27267

**CONDITIONS**

Operator: MARATHON OIL PERMIAN LLC 5555 San Felipe St. Houston, TX 77056	OGRID: 372098
	Action Number: 27267
	Action Type: [C-103] NOI Change of Plans (C-103A)

**CONDITIONS**

Created By	Condition	Condition Date
jagarcia	None	5/26/2021