



Tyrone Operations
P.O. Box 571
Tyrone, NM 88065

July 31, 2024

**Via Electronic &
Certified Mail #70203160000104769112
Return Receipt Requested**

Mr. Clint Chisler
Energy, Minerals and Natural Resources Department
Mining and Minerals Division
Mining Act Reclamation Program
1220 South St. Francis Drive
Santa Fe, NM 87505

Dear Mr. Chisler:

Re: Part 4 Exploration Permit Application-Emma Project

Freeport-McMoRan Tyrone Inc. (Tyrone) received approval for a minimal impact exploration permit, Emma-B, on August 08, 2019, under the permit No. GR083EM. Tyrone applied for three modifications to this permit (Modification 20-1, Modification 21-1, and Modification 22-1) and received approval from the Mining and Minerals Division (MMD). A termination report was also submitted for this minimal impact project in July of 2024. Pursuant to 19.10.4.402, Tyrone is requesting to conduct the remainder of the mineral exploration in the Emma Expansion area under a new Part 4 Exploration Permit. Attached is a copy of the permit application for the request.

This phase of the project will consist of drilling thirty-four (34) boreholes on a total of thirty-three (33) drill pads. A number of pads will be partially constructed on existing roads for a total of 0.3 acres, which was removed from the disturbance total in the attached application. Drillholes EM_16 and EM_18 will be drilled from the same pad. A number of new roads will be constructed as well. The associated pads and new roads of the first phase will generate approximately eight (8) acres of surface disturbance. Tyrone has also included approximately fifty-two (52) acres of disturbance that could be created through subsequent phases, reclamation, field fitting roads and pads, and any other unforeseen circumstances that may occur.

As we previously discussed, because roads and pads may need to be adjusted in the field, the 60 acres of disturbance could occur anywhere with the proposed Emma permit boundary line. A map of the current phase and design of pads has been included for convenience. Since

Mr. Clint Chisler

July 31, 2024

Page 2

this area has been extensively studied through the process to revise GR010RE for the Emma Expansion project, it is well-known that no impacts to archeological or historical sites, wetlands, springs, critical habitat, or any other significant impact to the environment will be encountered. Tyrone agrees to submit final designs during the renewal or termination phase of the permit, documenting what has been disturbed and reclaimed. As noted in the application however, reclamation will not take place until the entire project has been completed and it is determined that no additional boreholes are required. The project may also be left disturbed because the area is to be mined in accordance with Revision 21-1 (Emma Expansion Project) to Permit No. GR010RE.

Tyrone has calculated the financial assurance (FA) for this scope of work to be \$496,541 (which includes FA for plugging and abandoning and surface reclamation the 6 temporary groundwater monitor wells, see Table 1 in application attachments). MMD will be provided with the plugging and abandoning records before Tyrone proceeds to the next series of four (4) boreholes.

Please contact Raechel Roberts at (575) 956-3290 or rroberts2@fmi.com if you have questions. Enclosed is the remaining permit application fee of \$500.00.

Sincerely,



Sherry Burt-Kested
Environmental Services Manager

SBK:rmr

Enclosures

Ck#0001040269 - \$500.00

20240731-101

Freeport-McMoRan Inc.
 Attention: Accounts Payable
 333 N Central Ave, Room 23.306
 Phoenix, AZ. 85004

RETURN SERVICE REQUESTED

Check No. 0001040269
 Check Date 06/11/2024
 Check Amount \$500.00
 Vendor No. 0000805500
 Payment Reference No. 20608827871899



OD-000003 0001 0001 000007

STATE OF NEW MEXICO
 NM ENRGY MNRLS & NAT RES DPT
 1220 S SAINT FRANCIS DR
 SANTA FE, NM 87505-4225

PLEASE DIRECT ANY INQUIRIES
 TO THE AP HELP DESK:
 AP@FMI.COM

Invoice Date	Invoice Number	PO#/Freeport Site/ Description	Invoice Amount	Discount Amount	Net Amount
06/01/2024	06102024SL	FM Tyrone Mining LLC EMMA PART 4 EXPLORATION PERMIT	\$500.00		\$500.00
TOTAL					\$500.00

↓ PLEASE FOLD ON PERFORATION AND DETACH HERE ↓

VERIFY THE AUTHENTICITY OF THIS MULTI-TONE SECURITY DOCUMENT.

CHECK BACKGROUND AREA CHANGES COLOR GRADUALLY FROM TOP TO BOTTOM.

FREEMPORT MINERALS CORPORATION
 333 NORTH CENTRAL AVE
 PHOENIX, AZ 85004-2121



0001040269

June 11, 2024

64-1278/611
 VOID AFTER 180 DAYS
 PAY IN US DOLLARS



Amount: **Five Hundred dollars and 00 cents**

****\$500.00****

Pay to the order of STATE OF NEW MEXICO
 NM ENRGY MNRLS & NAT RES DPT

Bank of America N.A.
 Atlanta, Dekalb County, Georgia

M. Hall

AUTHORIZED SIGNATURE

FOR MMD USE ONLY:

PROJECT NAME: _____

PERMIT NUMBER: _____

DATE RECEIVED: _____

DATE APPROVED: _____

LEAD INSPECTOR: _____

FORM REVISION DATE: 02/05/08

**STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT**

Director

**Mining and Minerals Division
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505**

Telephone: (505) 476-3400

Fax: (505) 476-3402

Webpage: www.emnrd.state.nm.us/MMD/index.htm

**SUBPART 4
EXPLORATION
PERMIT APPLICATION**

The following information is required under the New Mexico Mining Act (Sections 69-36-1 through 69-36-20, NMSA 1978) and associated rules. The Mining and Minerals Division of the Energy, Minerals and Natural Resources Department is the administrative agency through which this application is to be processed. See Subpart 4 Exploration of the New Mexico Mining Act Rules for all regulations associated with Exploration Operations.

The permittee is requested to use this application. If additional space is needed, all information requested in this form must be submitted in this same format.

Permit Application Requirements: (§401 & §402)

- Six copies of the application must be submitted.
- Confidential information shall be **clearly** identified and submitted separately.
- Exploration commencing after 12/31/1994 shall submit an application not less than 120 days prior to the anticipated date of operations.
- Renewal applications shall be filed at least 30 days preceding expiration of the current permit.

IMPORTANT NOTES!!

- ! Obtaining a Mining Act permit does not necessarily satisfy the obligation to obtain other federal, state and local permits.**
- ! All proposed disturbance should be flagged or staked in the field prior to the Mining and Mineral Division's (MMD) initial inspection. Failure to properly mark any proposed drill holes or trenches will delay processing of the permit application.**
- ! All proposed disturbance, including any new proposed access road centerlines, all four (4) corners of any proposed drill pads, and proposed drill hole location(s) within the drill pad area must be staked in the field.**
- ! Any staking of proposed disturbances (access road centerline, drill pad corners, drill hole) should be completed using durable materials such as steel re-bar stakes or T-posts. MMD recommends using rebar stakes of suitable height, and flagging on the rebar at all four (4) corners. Drill holes should be marked by a single T-post driven at the location of proposed drilling.**
- ! The application will be deemed incomplete, and likely be denied, without a proper map included. Provide a 1:24,000 USGS quadrangle map with the application. The map should identify locations of drill holes, pads and any new disturbance anticipated**
- ! If possible, please include with this application for submittal, any other operational plans that may have been submitted, as required, to other land management agencies. Plans of Operations (POO) submitted to the USFS and Notices of Intent (NOI) submitted to the BLM are very helpful in processing this application.**

PLEASE FILL IN ALL APPLICABLE INFORMATION AS COMPLETELY AS POSSIBLE.
PLEASE PRINT OR TYPE ALL INFORMATION.

1. OPERATOR INFORMATION (§402.D.1)

PROJECT NAME:
NAME OF PERMITTEE (or entity obligated under the Mining Act): <u>Freeport-McMoRan Tyrone Inc.</u>
ADDRESS: <u>PO Box 571 Tyrone, NM 88065</u>
PHONE: <u>575-912-5757</u>
FAX: _____
NAME OF OWNER (if different from Permittee's name and address): _____ _____
ADDRESS: _____ _____ _____
PHONE: _____
FAX: _____
NAME OF ON-SITE CONTACT OR OPERATOR'S REPRESENTATIVE: <u>Raechel Roberts</u>
ADDRESS: <u>1 Tyrone Mine Road Tyrone, NM 88065</u>
PHONE: <u>575-956-3290</u>
FAX: _____
EMAIL: <u>rroberts2@fmi.com</u>

2. OPERATION OWNERSHIP INFORMATION (§402.D.2)

- A. List all parties that have an ownership or controlling interest in the proposed exploration operation, or submit the most recent 10K form required by the U.S. Securities and Exchange Commission.

Name	Address	Phone #
<u>Freeport-McMoRan Tyrone Inc.</u>	<u>1 Tyrone Mine Road Tyrone, NM 88065</u>	
<u>Land and Water Resource Analyst: Tyson Bays</u>		
<u>575-313-0913</u>		

- B. List all mining operations located within the U.S. owned, operated or directly controlled by the applicant, owner or operator.

Name	Address	Phone #
<u>Tyrone Mine and Little Rock Mine</u>	<u>1 Tyrone Mine Road Tyrone, NM 88065</u>	
<u>General manager: Randy Ellison</u>		
<u>575-519-8152</u>		

- C. List the names and addresses of regulatory agencies with jurisdiction over the environmental aspects of those operations listed in B above, and that could provide a compliance history for those operations.

Name	Address	Phone #
<u>Please see Table 3 in Attachment 1 of the document Titled <i>Permit GR010RE-Tyrone Mine Existing Mining Operations, Permit Revision Application for Emma Expansion Project at the Tyrone Mine</i> dated October 22, 2021.</u>		

RIGHT TO ENTER INFORMATION (§402.D.3 & 4)

- D. Provide copies of mineral leases and/or mineral claim documents upon which the permittee bases the right to enter the property to conduct the exploration and reclamation.

Attachment See Table 1. Owners of Surface and Mineral Estates Within the Proposed Emma Area in Attachment 1 of the document Titled *Permit GR010RE-Tyrone Mine Existing Mining Operations, Permit Revision Application for Emma Expansion Project at the Tyrone Mine* dated October 22, 2021.

- E. Include GPS coordinates for each claim, or show on a map in relation to the project area, any mineral leases and/or mineral claim boundaries upon which

the permittee intends to conduct the exploration and reclamation.

Attachment See Figure 1. Owners of Surface and Mineral Estates Within the Proposed Emma Area in Attachment 1 of the document Titled *Permit GR010RE-Tyrone Mine Existing Mining Operations, Permit Revision Application for Emma Expansion Project at the Tyrone Mine* dated October 22, 2021.

- F. List the names and addresses of surface and mineral ownership within the proposed permit area.

Surface Owner(s):

Name	Address	Phone #
<u>Freeport McMoRan Tyrone Mining, LLC</u>	<u>PO Box 571 Tyrone, NM 88065</u>	
	<u>575-313-0913</u>	

Mineral Owner(s):

Name	Address	Phone #
<u>Freeport McMoRan Tyrone Mining, LLC</u>	<u>PO Box 571 Tyrone, NM 88065</u>	
	<u>575-313-0913</u>	

MAPS AND LOCATION (§402.D.4 & 5)

- G. Provide a legal description of the proposed permit area and each exploration site [i.e. Township(s), Range(s) and Section(s) NM PLSS, as well as GPS coordinates corresponding to each proposed drill hole.]

Proposed Permit Area Legal Description:

Portions of Sections 25, 26, 35, and 36 of Township 19S, Range 15W of the New Mexico Meridian. The project is located within the Burro Mountains just south of the Tyrone Mine.

Proposed Drill Hole/Exploration Site GPS Coordinate(s):

1. List drill hole/exploration site name and the GPS Coordinate for each site.
2. Include datum/coordinate system of GPS coordinates (i.e. decimal degrees, UTM Zone 13, UTM Zone 12, NAD 27. NAD 1983, **WGS 1984**, etc.

Attachment A

- H. Provide a topographic map(s) of at least 1 inch = 2,000 feet or appropriate

scale for the size of disturbance [i.e. a 1:24,000 USGS Quadrangle map]. The map name and at least two edges of the map [i.e. bottom and side edge] clearly showing all areas of land to be disturbed by the proposed exploration and reclamation. If the area to be explored contains the following features, show them on the map(s):

1. **Boundary of the proposed permit area** on a topographic map, and the proposed area of disturbance. This boundary should be labeled.
2. Perennial, intermittent and ephemeral streams, springs, wetlands, riparian areas, lakes and reservoirs.
3. Residences or other occupied dwelling.
4. Proposed and existing roads, and other access routes.
5. Pipelines and support facilities.
6. Cemeteries, burial grounds and cultural resources.
7. Previously disturbed areas.-*Please see GR079EM and GR083EM termination reports.*
8. Oil, gas, water wells and monitoring wells within the permit area.
9. Areas and types of proposed disturbances. Include the anticipated dimensions of each proposed disturbance.
10. Identify the location of drill holes, shafts, pits, adits, trenches, ponds, stockpiles, wastes dumps, etc.

Attachment B

- I. Provide detailed written driving directions to access the site.
From Silver City, NM, drive 10 miles south of HWY 90S. Turn west onto Tyrone Thompson Canyon country road. Approximately 1 mile west, turn onto existing access road. Gate is locked and will require and escort to the area by FMI Tyrone.

EXPLORATION DESCRIPTION (§402.D.6 & 7)

- J. List the proposed exploration dates:

Start Date: January 2025

End Date: January 2026, unless a modification is submitted 30 days prior to expiration of this permit.

- K. List the mineral or minerals to be explored for:

Copper

- L. Check the box beside the proposed method(s) of exploration:

- Cuts Pits Trenches Shafts
 Tunnels/Adits/Declines
 Air drilling Fluid drilling Drilling & Blasting
 Other method (describe): _____

M. Information on stockpiles, ponds, drilling mud and water recirculation pits, impoundments and any other structures should be provided:

- No stockpiles, no ponds, no impoundments
-Mud/water recirculation pits/sumps – maximum size – 10 x 20 x 8 ft deep
-Berms will be constructed adjacent to pads or new roads to limit site access

N. List the following proposed disturbance for each:

Drill pads: *(Note. Pad size does not include cut and fill or reclamation disturbance)*

How Many? 33 Width (ft.): 80 Length (ft.) 100

Drill holes:

How Many? 34 Depth (ft.): 2500 Diameter (in.): 5.5

Other Disturbances:

52 acres.

Please describe: Other disturbance includes cut and fill disturbances, reclamation/regrading to match original topography, and unforeseen improvements or changes to roads or designs as a disturbance contingency.

Describe the equipment to be used for the exploration operations

4x4 Trucks/Vehicles – 6 total @ 10,000 lbs each

Water truck – 2 total @ 46,000 lbs each (3 axle, 4,000 gallon)

Pipe trucks – 2 total @ 35,000 lbs each (3 axle)

Trailers – 2 total @ 6,000 lbs each (2 axle, flatbed)

Portable toilet – 1 total

Bulldozer – Cat D6

Backhoe – Cat 420

Drill rigs – Schramm 685, BK-45 Super 90

O. Describe the area and size of each type of disturbance for cuts, pits, stockpiles, trenches, shafts, tunnels or other disturbances:

Drill pits/sumps – 10 x 20 x 8 ft each (to exist on already disturbed pad)

No stockpiles, no trenches, no shafts, no tunnels

P. Roads

Roads shall be located to minimize disturbance to land and wildlife and enhance stability. Roads shall be constructed and maintained to control erosion. Roads constructed in or across intermittent or perennial streams require site specific designs. Roads to remain permanent must be approved by the surface owner and must be stabilized to control erosion.

List for New Road(s) the following:

Road description: <u>road to EM24 01</u>	Length (ft.) <u>190</u>	Width (ft.) <u>15</u>
Road description: <u>road to EM24 02</u>	Length (ft.) <u>124</u>	Width (ft.) <u>15</u>
Road description: <u>road to EM24 03</u>	Length (ft.) <u>218</u>	Width (ft.) <u>15</u>
Road description: <u>road to EM24 04</u>	Length (ft.) <u>387</u>	Width (ft.) <u>15</u>
Road description: <u>road to EM24 05</u>	Length (ft.) <u>166</u>	Width (ft.) <u>15</u>
Road description: <u>road to EM24 06</u>	Length (ft.) <u>128</u>	Width (ft.) <u>15</u>
Road description: <u>road to EM24 07</u>	Length (ft.) <u>1054</u>	Width (ft.) <u>15</u>
Road description: <u>road to EM24 09</u>	Length (ft.) <u>377</u>	Width (ft.) <u>15</u>
Road description: <u>road to EM24 10</u>	Length (ft.) <u>125</u>	Width (ft.) <u>15</u>
Road description: <u>road to EM24 12</u>	Length (ft.) <u>192</u>	Width (ft.) <u>15</u>
Road description: <u>road to EM24 13</u>	Length (ft.) <u>127</u>	Width (ft.) <u>15</u>
Road description: <u>road to EM24 14</u>	Length (ft.) <u>167</u>	Width (ft.) <u>15</u>
Road description: <u>road to EM24 15</u>	Length (ft.) <u>64</u>	Width (ft.) <u>15</u>
Road description: <u>road to EM24 16</u>	Length (ft.) <u>126</u>	Width (ft.) <u>15</u>
Road description: <u>road to EM24 17</u>	Length (ft.) <u>332</u>	Width (ft.) <u>15</u>
Road description: <u>road to EM24 19</u>	Length (ft.) <u>63</u>	Width (ft.) <u>15</u>
Road description: <u>road to EM24 20</u>	Length (ft.) <u>161</u>	Width (ft.) <u>15</u>
Road description: <u>road to EM24 24</u>	Length (ft.) <u>570</u>	Width (ft.) <u>15</u>
Road description: <u>road to EM24 25</u>	Length (ft.) <u>100</u>	Width (ft.) <u>15</u>
Road description: <u>road to EM24 26</u>	Length (ft.) <u>160</u>	Width (ft.) <u>15</u>
Road description: <u>road to EM24 28</u>	Length (ft.) <u>181</u>	Width (ft.) <u>15</u>
Road description: <u>road to EM24 30</u>	Length (ft.) <u>150</u>	Width (ft.) <u>15</u>
Road description: <u>road to EM24 33</u>	Length (ft.) <u>169</u>	Width (ft.) <u>15</u>

*Note: Depending on the slope of the road location and due to the cutting/filling designs, the final disturbance may exceed 15 when the actual surface of the road is still 15 ft. This has been accounted for in the "Other Disturbance" section by increasing the total road disturbance by a factor of 5.

List for Extension or Widening of Existing Road(s) the following:

Road description: _____	Length (ft.) _____	Width (ft.) _____
Road description: _____	Length (ft.) _____	Width (ft.) _____
Road description: _____	Length (ft.) _____	Width (ft.) _____
Road description: _____	Length (ft.) _____	Width (ft.) _____

*Note: See note above in "other disturbances"

Where applicable, describe road or drainage culvert location, size(s), and design:

N/A

- Q. Describe (location and size) any other disturbances (equipment staging, storage and/or lay down areas, vehicle parking, temporary housing and/or trailers) to be created or situated on the site during exploration operations.

Exploration and drilling vehicles will be parked on the pads during drilling activity. Lay down areas will be located at the Tyrone mine. No additional disturbance should be needed.

TOTAL ACREAGE TO BE DISTURBED: 60 acres

CHEMICAL USE (§402.D.8)

- R. List all chemicals, and include Material Safety Data Sheets (MSDS), for any chemicals proposed to be used by the exploration operation, including but not limited to any drilling mud, polymers, down-hole bit lubricants, lost circulation materials (LCM), or any other drilling additives, fuel and lubricants. Material Safety Data Sheets (MSDS) describing must be included. If any water is to be hauled onsite, please provide source information and intended use.

Name	Use
RC Drilling	
<u>EZ Mud Gold</u>	<u>(35 gal. per) - Drilling mud</u>
<u>Diesel fuel</u>	<u>(6,000 gal.) - Fuel</u>
<u>20 gal. 15/40 grease</u>	<u>(20 tubes) – oil/grease</u>
<u>Hydraulic fluid</u>	<u>(15 gallons) – hydraulic fluid</u>
<u>Portland II</u>	<u>(~800 bags) – cement</u>
<u>Quick Gel</u>	<u>(~100 x 50 lb bags) - bentonite</u>
<u>Soda Ash</u>	<u>(~10 x 50 lb bags) – soda ash</u>
Core Drilling	
<u>Ez Mud Plus</u>	<u>(4-5 gal. jugs) – Drilling mud</u>
<u>Diesel fuel</u>	<u>(90 gal.) - Fuel</u>
<u>15w-40 Oil & Grease</u>	<u>(10-20 gal.) – oil/grease</u>
<u>Quick Trol Gold</u>	<u>(3-50 bags) - mixture</u>
<u>Wd 40, chain lube</u>	<u>(5-20oz cans) - lube</u>
<u>Quick Gel</u>	<u>(48-50 bags) - bentonite</u>
<u>Soda Ash</u>	<u>(5-50 bags) – soda ash</u>

- S. Describe in detail a plan for the containment, use and disposal of all

chemicals listed above:

Drilling products are used down-hole with excess going into sump with water. Portland II cement is used to abandon/plug holes. Petroleum products will be used for equipment and disposal will be off site. Drill rig refueling will be done on-site via pickup with fuel tank. Fuel and lubricants are not disposed of, but are consumed on site. Rags and absorbents will be disposed of properly at Tyrone waste management stations. Spills will be reported, cleaned up and contaminated materials/soil will be treated/managed at Tyrone mine waste management facilities until final disposal. All water used for exploration activities will be obtained at the Tyrone mine.

3. GROUND WATER INFORMATION (§402.D.9)

- A. Provide an estimate of depth to ground water and the total dissolved solids (TDS) concentration.

Depth to ground water (ft.): Variable 80-350 ft (includes regional and perched)
TDS concentration (mg/L): <2290 mg/L

- B. What is the source of this information?

Historical and recent groundwater monitoring data from Discharge Permit 396

- C. Will dewatering activities be conducted:

Yes No

If yes, please describe:

4.

5. RECLAMATION AND OPERATION PLAN (§402.D.10)

Reclamation of the disturbed area shall be initiated as soon as possible following the completion or abandonment of the exploration operation, unless the disturbed area is included within a complete permit application for a new mining operation.

- A. Provide a description of the native vegetation of the area to be disturbed. Include tree, shrub and grass communities of the area.

See permit application for Emma Revision – Attachment 1 D (6)
Mixture of multiple plant communities including alluvial grasslands primarily composed of tarragon, blue grama, purple three-awn Apache plume, and bricklebush. Also included are Piedmont scrub savannas consisting of grama grasses, beargrass, broom snakeweed and mimosa.

Lastly, the area includes some mountain slope mixed evergreen woodlands dominated by oak and juniper species.

- B. Describe the topsoil or topdressing depth and how topsoil or topdressing will be salvaged, stockpiled and distributed for the re-establishment of vegetation.

Mixture of coarse loamy and sandy Haplustolls and Torrifuvents, loamy skeletal, clayey-skeletal, and fine aridic Haplustaffs and Haplustolls ranging from a few inches to a few feet in thickness.

Where practical, topsoil will be stripped and staged near the drill pad for use in reclamation. Depending on the slope of the pad location, the topsoil may be needed for construction of the pad so additional material does not have to be brought in from borrow sources at Tyrone.

- C. Describe in detail the plant species to be used in the re-establishment of vegetation.

Plant name	Seeding Rate (lbs./acre)
<u>Blue grama</u>	<u>1</u>
<u>Sideoats grama</u>	<u>2</u>
<u>Sand dropseed</u>	<u>0.25</u>
<u>Indian ricegrass</u>	<u>2</u>
<u>Purple prairie clover</u>	<u>2</u>
<u>Scarlet globemallow</u>	<u>1</u>

- D. Provide the methods to be used during revegetation operations and provide a schedule of when the operations are to begin and end.

Once the project is fully completed and it is determined that no additional exploration drilling will take place, pads and roads (excluding roads that are permanently used for well and instrument access) will be regraded to create appropriate transitions to existing topography. During this phase of reclamation, the soil will be spread out to best match the surrounding topography using a dozer, excavator, or backhoe and additional disturbances may take place. During revegetation, the soil will be ripped to a depth of 4-6 prior to seeding. Seed will be planted using a range drill or broadcaster depending on the site conditions and seed shapes. Tyrone will communicate the schedule with the agency as the project progresses.

The project may also be left disturbed because the area is to be mined in accordance with Revision 21-1 (Emma Expansion Project) under GR010RE.

- E. Proposed Reclamation dates:

Start Date: Agency will be notified

End Date: Agency will be notified

- F. If riparian areas and wetlands exist, provide the detailed reclamation plan for the mitigation of the area. Describe the methods to minimize disturbance during exploration.

n/a

- G. Describe how drill holes will be plugged and abandoned. What plugging and abandonment methods will be employed where groundwater is encountered versus holes where no groundwater is encountered? (must comply with 19.27.4 NMAC of the State Engineer Office's plugging and abandonment requirements)

In accordance with 19.27.4 NMAC and an approved plugging variance issued to Tyrone on 12/14/2010, holes will be plugged by grouting via a tremie line from the bottom up to the surface (less 2 feet) utilizing a pressure grout pump. Said grout is to be mixed on site with 5 gallons of water per 94-lb sack of Portland cement. Each well is plugged prior to the drill rig leaving the site, per FMI policy. The procedure is the same for both wet and dry holes.

- H. Describe how the reclamation of portals, drilling mud and/or waste pits, adits, shafts, ponds, roads or other disturbances will be performed.

Mud pits are backfilled with excavator, dozer, or backhoe.

6. CULTURAL RESOURCES (§403.B)

Cemeteries and burial grounds and the disturbance of cultural resources listed on, or eligible for, the National Register of Historic Places or the State Register of Cultural Properties shall be avoided until clearance has been granted by the Director after consultation with the State Historic Preservation Officer.

Provide information on Cultural Resource Survey(s) performed on the site. Include a copy of the Archeological or Cultural Resource Survey **separately** in the application package. **Please DO NOT display any archaeological site locations upon other project maps submitted under Section 4 of this Application.** Any Archeological or Cultural Resource Survey and Report information shall be submitted with this Application, but separately as a stand alone component of this Application.

Attachment Submitted on June 22, 2021 for a prior exploration project and

Modification 21-1 to GR010RE.

7. SAFEGUARDING (§403.C)

Provide a description of measures that will be taken to safeguard the public from unauthorized entry into hazardous areas. This description shall address the following:

- A. Closing shafts, adits, and tunnels to prevent entry;
- B. Posting warning signs in locations near hazardous areas (in Spanish, English and/or other languages);
- C. Restricting access to hazardous areas; or other measures to protect human safety. and
- D. Waste disposal

The project area is already fenced, and signage is in place as it is all located on private property owned by Freeport McMoRan. When rigs are operating, an employee is monitoring the entrance point at all times. Each person is required to sign in and review the workplace exam.

Mud pits are completed fenced off with metal panels as well, until they are backfilled. No adits or shafts are present.

8. PROTECTION OF WILDLIFE AND IMPORTANT HABITAT (§403.G)

- A. Describe in detail the measures that will be taken during the exploration and reclamation to minimize impacts on wildlife and important habitat.

Metal panels are placed around pits and temporary plastic tarps are used over mud pits unless in use. Pits will be backfilled upon completion of drilling. Earthen egress ramps are also installed in mud pits as a backup safeguard.

Metal panels stand upright by design and stakes will be used to secure tarps. Vehicle traffic will be restricted to existing access roads and disturbance will be minimized to only what is necessary.

OPERATIONS TO MINIMIZE EROSION (§403.E)

- B. Describe in detail the measures that will be taken and/or Best Management Practices (BMP's) to be utilized during exploration and reclamation to prevent and minimize erosion. Acceptable practices include:

- 1. Stabilizing disturbed areas through land shaping, re-contouring, berming or grading to final contour;

2. Minimizing reconstructed slope lengths and gradients;
3. Diverting storm water runoff;
4. Establishing vegetation;
5. Regulating channel velocity of water;
6. Lining drainage channels with rock, vegetation or other geotechnical materials; and
7. Mulching.

Silt fences, straw bales, ditches/swales, or berms/dikes/dams could be used to minimize erosion during operations.

The reclamation procedures described above include regrading to transition to existing topography and plant establishment will also be used. No mulching is proposed for this project.

BLASTING INFORMATION (§403.L)

- C. When blasting is employed during the exploration operations, indicate the following: N/A

Distance to nearest structure or dwelling: _____ feet

Typical number of pounds used per blast: ____ lbs/blast

Type of blasting agent: _____

9. FINANCIAL ASSURANCE, PUBLIC NOTICE AND PERMIT FEES (§402.D.10.c, §402.D.12, & §402.D.13)

- A. Provide an estimate of the proposed financial assurance required by Subpart 12.

Attachment C

- B. Attach a copy of the proposed form of public notices required under Subpart 9.

Attachment D

- C. Attach the permit fees as determined pursuant to Subpart 2. The application fee for an exploration permit is \$250.00.

Check the method of payment.

Cash

Check

Check Number: 0001040269

Financial institution: Bank of America

10. CERTIFICATION REQUIREMENT (§402.C)

Each application shall be signed by the permittee or an authorized agent of the permittee for the operation with the following certification made

(Certification does not require notarization):

I certify that I have personally examined and am familiar with the information submitted herein, and based on my inquiry of those individuals responsible for obtaining the information; I believe the submitted information is true, accurate, and complete. I agree to comply with the reclamation requirements set forth in this permit application and related correspondence, the New Mexico Mining Act and the Rules. Further, I certify that I am not in violation of any other obligation under the New Mexico Mining Act or the Rules adopted pursuant to that Act and I allow the Director to enter the permit area, without delay, for the purposes of conducting inspections during exploration and reclamation.

Signature of Permittee or Authorized Agent



Name (typed or print) Sherry Burt-Kested

Title/Position: Manager, Environmental Services

Date 7-31-2024

Attachment A. Proposed Drill Hole/Exploration Site GPS Coordinates

Drillhole ID	Longitude (WGS 84)	Latitude (WGS 84)	Easting	Northing	Elevation	Depth (ft)	OSE POD #	Notes
EM24_01	108° 21' 25.0104" W	32° 37' 02.4632" N	15800	2200	6225	2500	143	
EM24_02	108° 21' 24.9412" W	32° 37' 06.2215" N	15800	2580	6147	2500	144	
EM24_03	108° 21' 22.6125" W	32° 37' 05.7259" N	16000	2533	6163	2500	145	
EM24_04	108° 21' 22.6888" W	32° 37' 01.5818" N	16000	2114	6290	2500	146	
EM24_05	108° 21' 20.2994" W	32° 37' 04.3796" N	16200	2400	6222	2500	147	
EM24_06	108° 21' 17.9230" W	32° 37' 06.4752" N	16400	2615	6174	2500	148	
EM24_07	108° 21' 18.2536" W	32° 36' 48.5243" N	16400	800	6208	2500		Waiting on POD to be issued
EM24_08	108° 21' 15.6905" W	32° 37' 00.7575" N	16600	2040	6210	2500	149	
EM24_09	108° 21' 13.4965" W	32° 36' 52.9528" N	16800	1254	6162	2500		Waiting on POD to be issued
EM24_10	108° 21' 13.4161" W	32° 36' 57.3144" N	16800	1695	6205	2500	150	
EM24_11	108° 21' 13.3277" W	32° 37' 02.1113" N	16800	2180	6200	2500	151	
EM24_12	108° 21' 13.1260" W	32° 37' 13.0500" N	16800	3286	6224	2500		Waiting on POD to be issued
EM24_13	108° 21' 10.9868" W	32° 37' 02.2782" N	17000	2200	6185	2500	152	
EM24_14	108° 21' 10.7533" W	32° 37' 14.9378" N	17000	3480	6219	2500		Waiting on POD to be issued
EM24_15	108° 21' 17.8528" W	32° 37' 10.2830" N	16400	3000	6113	2500	153	
EM24_16	108° 21' 08.6778" W	32° 37' 00.7143" N	17200	2045	6166	2500	154	
EM24_17	108° 21' 15.2344" W	32° 37' 09.0119" N	16626	2875	6155	2500	155	
EM24_18	108° 21' 08.6785" W	32° 37' 00.6748" N	17200	2041	6170	2500	156	Located on same pad as EM24-16
EM24_19	108° 21' 10.8409" W	32° 37' 10.1905" N	17000	3000	6242	2500	157	
EM24_20	108° 21' 10.7944" W	32° 37' 12.7125" N	17000	3255	6277	2500		Waiting on POD to be issued
EM24_21	108° 21' 10.8792" W	32° 37' 08.1135" N	17000	2790	6203	2500	158	
EM24_22	108° 21' 06.3259" W	32° 37' 01.4747" N	17400	2125	6179	2500	159	
EM24_23	108° 21' 03.9777" W	32° 37' 02.0372" N	17600	2185	6170	2500	160	
EM24_24	108° 21' 18.1156" W	32° 36' 56.0162" N	16400	1557.5	6223	2500		Waiting on POD to be issued
EM24_25	108° 21' 11.1038" W	32° 36' 55.9286" N	17000	1558	6192	2500	161	
EM24_26	108° 21' 04.1229" W	32° 36' 54.1744" N	17600	1390	6194	2500		Waiting on POD to be issued
EM24_27	108° 21' 06.4068" W	32° 36' 57.0932" N	17400	1682	6196	2500		Waiting on POD to be issued
EM24_28	108° 21' 08.6041" W	32° 37' 04.7100" N	17200	2449	6206	2500	162	
EM24_29	108° 21' 13.2741" W	32° 37' 05.0190" N	16800	2474	6224	2500	163	
EM24_30	108° 21' 18.0350" W	32° 37' 00.3927" N	16400	2000	6258	2500	164	
EM24_31	108° 21' 22.7434" W	32° 36' 58.6147" N	16000	1814	6282	2500	165	
EM24_32	108° 21' 25.0737" W	32° 36' 59.0213" N	15800	1852	6280	2500	166	
EM24_33	108° 21' 29.6755" W	32° 37' 03.0391" N	15400	2252	6178	2500	167	
EM24_34	108° 21' 08.4326" W	32° 37' 14.0069" N	17200	3389	6250	2500	168	

2025 Emma Proposed Drilling



Onk Grove Creek

6200 ft
Tyronne-Thompson Rd

6100 ft

6100 ft

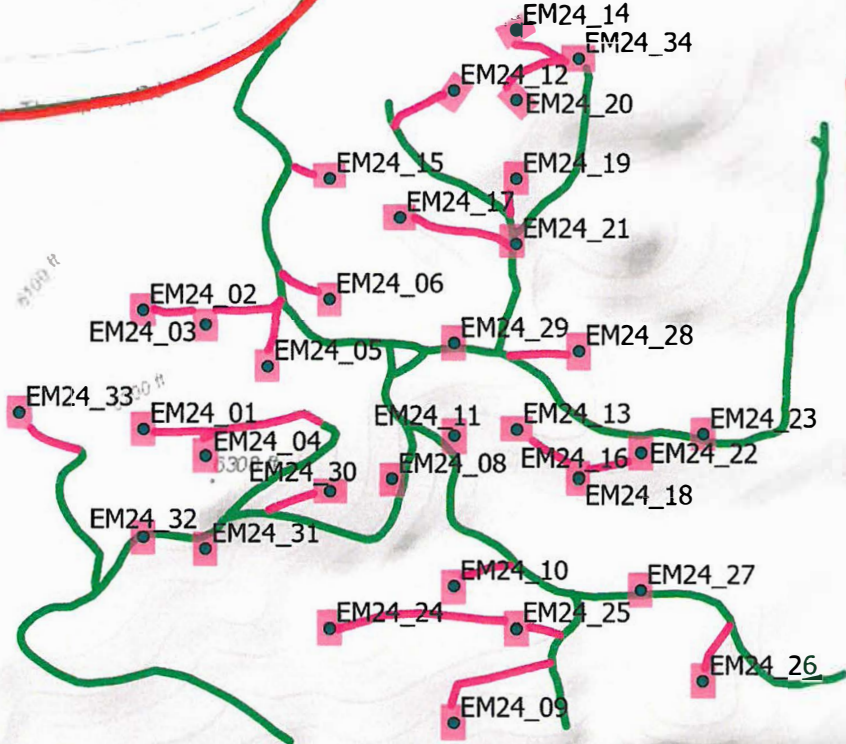
6100 ft

6300 ft

6200 ft

Legend

- 2025 Planned Drill Holes
- Drill Pads
- New Roads
- Existing Roads
- Emma Proposed Permit Boundary



0 0.13 0.25 0.5 Miles

Bureau of Land Management

Bur

Table 1: 2024 Financial Assurance (FA) Cost Estimate for Exploration Drilling				
New Emma PART 4				
Description	Unit	Quantity	Unit Rate (\$/unit)	Total Cost (\$)
Surface Reclamation Costs (1st acre)	acre	1.00	\$ 8,900	\$ 8,900
Drill Road & Pad Reclamation	acre	59.00	\$ 4,900	\$ 289,100
Plug and Abandon Exploration Drill Holes	ft.	10,000	\$ 14	\$ 140,000
Total FA Required for New Permit				\$ 438,000
Temporary Monitor Wells				
Description	Unit	Quantity	Unit Rate (\$/unit)	Total Cost (\$)
Drill Pad Reclamation	acre	1.09	\$ 4,900	\$ 5,341
Plug and Abandon Monitor Wells	ft.	3,800	\$ 14	\$ 53,200
Total FA Required for Well Reclamation				\$ 58,541
Total Existing FA (LOC: HACH6006910S)				\$ 229,922
Total FA Required				\$ 496,541
Adjustment Needed (Increase)				\$ 266,619
<i>Note. As described in the GR083EM Termination report, the FA required for monitor well reclamation is based on the actual depth of wells and surface disturbances that have not been reclaimed.</i>				
<i>FA required for the PART 4 borehole abandonment is based on 4 holes at a depth of 2500ft.</i>				

Legal Notice

Pursuant to the New Mexico Mining Act Rules, 19.10.4 and 19.10.9.903A. through H. NMAC, Freeport-McMoRan Tyrone Inc. (Tyrone) applied to the Mining and Minerals Division, New Mexico Energy, Minerals and Natural Resources Department (MMD) for an exploration permit adjacent to and south of the existing mining operation permitted under Tyrone Mine Permit GR010RE. Tyrone proposes to conduct exploration activities including construction of drill pads, access roads, and drilling to explore for copper minerals within a exploration permit area (referred to as Emma) of 337 acres. The actual exploration disturbance is estimated to be approximately 60 acres (this acreage includes reclamation and other potential adjustments needed as the project progresses). Financial assurance to reclaim new disturbances related to exploration activities only is proposed.

Location of real property affected: The Emma Exploration Project is located on private property adjacent to and south of the Emma (approximately 10 miles south and 1 mile west of Silver City, Grant County, NM). The Emma Exploration Project area is located within portions of Sections 25, 26, 35 and 36 of Township 19 South, Range 15 West of the USGS White Signal New Mexico quadrangle map.

Permittee and mailing address: Freeport-McMoRan Tyrone Inc., Environmental Services Department, P.O. Box 571, Tyrone, New Mexico 88065.

A copy of the updated application is available for viewing during normal business hours at:

New Mexico Energy, Minerals and Natural Resources Department
Mining and Minerals Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

And also at:
Freeport McMoRan Tyrone Inc.
Environment Services Department
Tyrone Mine Road, Highway 90
Tyrone, New Mexico 88065

This application can also be viewed or downloaded from the New Mexico Energy, Minerals and Natural Resources Department website at:

[https:// *** to be provided by MMD ***www.emnrd.nm.gov/mmd/mining-act-reclamation-program/pending-and-approved-mine-applications/mining-applications-regular-existing/](https://www.emnrd.nm.gov/mmd/mining-act-reclamation-program/pending-and-approved-mine-applications/mining-applications-regular-existing/)

Name and address to submit written comments or requests for Public Hearing:

Written comments or requests for a public hearing with regard to the exploration permit application shall be submitted to: Albert Chang, Director, Mining and Minerals Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505 or by email at:

emnrd.mmd2@state.nm.us. Within 30 days of the date of this public notice, any interested person may file written comments regarding the application with the Director at the above address and may request a public hearing.

File No. _____



NEW MEXICO OFFICE OF THE STATE ENGINEER

WR-07 APPLICATION FOR PERMIT TO DRILL

A WELL WITH NO WATER RIGHT



(check applicable box):

For fees, see State Engineer website: <http://www.ose.state.nm.us/>

Purpose:	<input type="checkbox"/> Pollution Control And/Or Recovery	<input type="checkbox"/> Ground Source Heat Pump
<input type="checkbox"/> Exploratory Well*(Pump test)	<input type="checkbox"/> Construction Site/Public Works Dewatering	<input checked="" type="checkbox"/> Other(Describe): Exploration for minerals
<input type="checkbox"/> Monitoring Well	<input type="checkbox"/> Mine Dewatering	
A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.		
*New Mexico Environment Department-Drinking Water Bureau (NMED-DWB) will be notified if a proposed exploratory well is used for public water supply.		
<input type="checkbox"/> Temporary Request - Requested Start Date:		Requested End Date:
Plugging Plan of Operations Submitted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

1. APPLICANT(S)

Name: Tyrone Mining, LLC	Name:
Contact or Agent: <input type="checkbox"/> check here if Agent	Contact or Agent: <input type="checkbox"/> check here if Agent
Ty Bays	
Mailing Address: P. O. Box 571	Mailing Address:
City: Tyrone	City:
State: <input type="checkbox"/> Zip Code: NM 88065	State: <input type="checkbox"/> Zip Code:
Phone: 575-912-5757 <input type="checkbox"/> Home <input type="checkbox"/> Cell	Phone: <input type="checkbox"/> Home <input type="checkbox"/> Cell
Phone (Work):	Phone (Work):
E-mail (optional): tbays@fmi.com	E-mail (optional):

FOR OSE INTERNAL USE

Application for Permit, Form WR-07, Rev 07/12/22

File No.:	Trn. No.:	Receipt No.:
Trans Description (optional):		
Sub-Basin:	PCW/LOG Due Date:	

2. WELL(S) Describe the well(s) applicable to this application.

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84).
 District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

NM State Plane (NAD83) (Feet) UTM (NAD83) (Meters) Lat/Long (WGS84) (to the nearest 1/10th of second)
 NM West Zone Zone 12N
 NM East Zone Zone 13N
 NM Central Zone

Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (Quarters or Halves, Section, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
EM24-01	-108° 21' 25.0092"	32° 37' 2.463"	
EM24-02	-108° 21' 24.9402"	32° 37' 6.2214"	
EM24-03	-108° 21' 22.611"	32° 37' 5.7246"	
EM24-04	-108° 21' 22.6866"	32° 37' 1.581"	
EM24-05	-108° 21' 20.2962"	32° 37' 4.3782"	

NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)
 Additional well descriptions are attached: Yes No If yes, how many 21

Other description relating well to common landmarks, streets, or other:
 Emma Pit which is located south of Tyrone Mine.

Well is on land owned by: TYrone Mining, LLC

Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. Attached? Yes No
 If yes, how many _____

Approximate depth of well (feet): 900	Outside diameter of well casing (inches): 5 1/2 inches
Driller Name: Layne	Driller License Number: WD-1728

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

Mineral exploration at Emma Pit.

FOROSE INTERNAL USE

Application for Permit, Form WR-07 Version 07/12/22

File No.:	Trn No.:
-----------	----------



NEW MEXICO OFFICE OF THE STATE ENGINEER



ATTACHMENT 1 POINT OF DIVERSION DESCRIPTIONS

This Attachment is to be completed if more than one (1) point of diversion is described on an Application or Declaration.

a. Is this a: <input type="checkbox"/> Move-From Point of Diversion(s) <input type="checkbox"/> Move-To Point of Diversion(s)		b. Information on Attachment(s): Number of points of diversion involved in the application: <u>26</u> Total number of pages attached to the application: <u>4</u>	
<input type="checkbox"/> Surface Point of Diversion OR <input checked="" type="checkbox"/> Well			
Name of ditch, acequia, or spring:			
Stream or water course:			
Tributary of:		Mimbres	
c. Location (Required): Required: Move to POD location coordinate must be either New Mexico State Plane (NAD 83), UTM (NAD 83), or Lat/Long (WGS84)			
NM State Plane (NAD83) (feet) NM West Zone <input type="checkbox"/> NM Central Zone <input type="checkbox"/> NM East Zone <input type="checkbox"/>	UTM (NAD83) (meters) Zone 13N <input type="checkbox"/> Zone 12N <input type="checkbox"/>	<input type="checkbox"/> Lat/Long-- (WGS84) 1/10 th of second	OTHER (allowable only for move-from descriptions - see application form for format) <input type="checkbox"/> PLSS (quarters, section, township, range) <input type="checkbox"/> Hydrographic Survey, Map & Tract <input type="checkbox"/> Lot, Block & Subdivision <input type="checkbox"/> Grant
POD Number: EM24-06	X or Longitude -108° 21' 17.9208"	Y or Latitude 32° 37' 6.474"	Other Location Description:
POD Number: EM24-08	X or Longitude -108° 21' 15.6888"	Y or Latitude 32° 37' 0.7572"	Other Location Description:
POD Number: EM24-10	X or Longitude 108° 21' 12.9996"	Y or Latitude 32° 36' 56.9988"	Other Location Description:
POD Number: EM24-11	X or Longitude 108° 21' 13.3266"	Y or Latitude 32° 37' 2.1102"	Other Location Description:
POD Number: EM24-13	X or Longitude -108° 21' 10.983"	Y or Latitude 32° 37' 2.28"	Other Location Description:
POD Number: EM24-15	X or Longitude -108° 21' 17.8518"	Y or Latitude 32° 37' 10.2828"	Other Location Description:
POD Number: EM24-16	X or Longitude -108° 21' 8.676"	Y or Latitude 32° 37' 0.7134"	Other Location Description:
POD Number: EM24-17	X or Longitude -108° 21' 15.231"	Y or Latitude 32° 37' 9.0114"	Other Location Description:
POD Number: Em24-18	X or Longitude -108° 21' 8.676"	Y or Latitude 32° 37' 0.6738"	Other Location Description:

FOR OSE INTERNAL USE

Form wr-08
POD DESCRIPTIONS - ATTACHMENT 1

File Number:	Trn Number:
Trans Description (optional):	



NEW MEXICO OFFICE OF THE STATE ENGINEER



ATTACHMENT 1 POINT OF DIVERSION DESCRIPTIONS

This Attachment is to be completed if more than one (1) point of diversion is described on an Application or Declaration.

a. Is this a: <input type="checkbox"/> Move-From Point of Diversion(s) <input type="checkbox"/> Move-To Point of Diversion(s)		b. Information on Attachment(s): Number of points of diversion involved in the application: <u>26</u> Total number of pages attached to the application: <u>4</u>	
<input type="checkbox"/> Surface Point of Diversion OR <input checked="" type="checkbox"/> Well			
Name of ditch, acequia, or spring:			
Stream or water course:			
Tributary of:		Mimbres	
c. Location (Required): Required: Move to POD location coordinate must be either New Mexico State Plane (NAD 83), UTM (NAD 83), or Lat/Long (WGS84)			
NM State Plane (NAD83) (feet) <input type="checkbox"/> NM West Zone <input type="checkbox"/> NM Central Zone <input type="checkbox"/> NM East Zone	UTM (NAD83) (meters) <input type="checkbox"/> Zone 13N <input type="checkbox"/> Zone 12N	<input type="checkbox"/> Lat/Long- (WGS84) 1/10 th of second	OTHER (allowable only for move-from descriptions - see application form for format) <input type="checkbox"/> PLSS (quarters, section, township, range) <input type="checkbox"/> Hydrographic Survey, Map & Tract <input type="checkbox"/> Lot, Block & Subdivision <input type="checkbox"/> Grant
POD Number: EM24-19	X or Longitude -108° 21' 10.839"	Y or Latitude 32° 37' 10.1892"	Other Location Description:
POD Number: EM24-21	X or Longitude -108° 21' 10.8786"	Y or Latitude 32° 37' 8.112"	Other Location Description:
POD Number: EM24-22	X or Longitude -108° 21' 6.3252"	Y or Latitude 32° 37' 1.473"	Other Location Description:
POD Number: EM24-23	X or Longitude -108° 21' 3.9744"	Y or Latitude 32° 37' 2.0382"	Other Location Description:
POD Number: EM24-25	X or Longitude -108° 21' 11.1018"	Y or Latitude 32° 36' 55.929"	Other Location Description:
POD Number: EM24-28	X or Longitude -108° 21' 8.6034"	Y or Latitude 32° 37' 4.71"	Other Location Description:
POD Number: EM24-29	X or Longitude -108° 21' 13.2726"	Y or Latitude 32° 37' 5.019"	Other Location Description:
POD Number: EM24-30	X or Longitude -108° 21' 18.0318"	Y or Latitude 32° 37' 0.3936"	Other Location Description:
POD Number: EM24-31	X or Longitude -108° 21' 22.7412"	Y or Latitude 32° 36' 58.6146"	Other Location Description:

FOR OSE INTERNAL USE

Form wr-08
POD DESCRIPTIONS - ATTACHMENT 1

File Number:	Trn Number:
Trans Description (optional):	



NEW MEXICO OFFICE OF THE STATE ENGINEER



ATTACHMENT 1 POINT OF DIVERSION DESCRIPTIONS

This Attachment is to be completed if more than one (1) point of diversion is described on an Application or Declaration.

a. Is this a: <input type="checkbox"/> Move-From Point of Diversion(s) <input type="checkbox"/> Move-To Point of Diversion(s)		b. Information on Attachment(s): Number of points of diversion involved in the application: <u>26</u> Total number of pages attached to the application: <u>4</u>	
<input type="checkbox"/> Surface Point of Diversion OR <input checked="" type="checkbox"/> Well			
Name of ditch, acequia, or spring:			
Stream or water course:			
Tributary of:		Mimbres	
c. Location (Required): Required: Move to POD location coordinate must be either New Mexico State Plane (NAD 83), UTM (NAD 83), <u>or</u> Lat/Long (WGS84)			
NM State Plane (NAD83) (feet) NM West Zone <input type="checkbox"/> NM Central Zone <input type="checkbox"/> NM East Zone <input type="checkbox"/>	UTM (NAD83) (meters) Zone 13N <input type="checkbox"/> Zone 12N <input type="checkbox"/>	<input type="checkbox"/> Lat/Long-- (WGS84) 1/10 th of second	OTHER (allowable only for move-from descriptions - see application form for format) <input type="checkbox"/> PLSS (quarters, section, township, range) <input type="checkbox"/> Hydrographic Survey, Map & Tract <input type="checkbox"/> Lot, Block & Subdivision <input type="checkbox"/> Grant
POD Number: EM24-32	X or Longitude -108° 21' 25.0704	Y or Latitude 32° 36' 59.0214"	Other Location Description:
POD Number: EM24-33	X or Longitude -108° 21' 29.6748"	Y or Latitude 32° 37' 3.0396"	Other Location Description:
POD Number: EM24-33	X or Longitude -108° 21' 8.4306"	Y or Latitude 32° 37' 14.0046"	Other Location Description:
POD Number:	X or Longitude	Y or Latitude	Other Location Description:
POD Number:	X or Longitude	Y or Latitude	Other Location Description:
POD Number:	X or Longitude	Y or Latitude	Other Location Description:
POD Number:	X or Longitude	Y or Latitude	Other Location Description:
POD Number:	X or Longitude	Y or Latitude	Other Location Description:
POD Number:	X or Longitude	Y or Latitude	Other Location Description:

FOR OSE INTERNAL USE

Form wr-08
POD DESCRIPTIONS - ATTACHMENT 1

File Number:	Trn Number:
Trans Description (optional):	

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

<p>Exploratory: Is proposed well a future public water supply well? <input type="checkbox"/> Yes <input type="checkbox"/> NO If Yes, an application must be filed with NMED-DWB, concurrently. <input type="checkbox"/> Include a description of the requested pump test if applicable.</p>	<p>Pollution Control and/or Recovery: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for the pollution control or recovery operation. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The annual diversion amount. <input type="checkbox"/> The annual consumptive use amount. <input type="checkbox"/> The maximum amount of water to be diverted and injected for the duration of the operation. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> The method of measurement of water produced and discharged. <input type="checkbox"/> The source of water to be injected. <input type="checkbox"/> The method of measurement of water injected. <input type="checkbox"/> The characteristics of the aquifer. <input type="checkbox"/> The method of determining the resulting annual consumptive use of water and depletion from any related stream system. <input type="checkbox"/> Proof of any permit required from the New Mexico Environment Department. <input type="checkbox"/> An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.</p>	<p>Construction De-Watering: <input type="checkbox"/> Include a description of the proposed dewatering operation, <input type="checkbox"/> The estimated duration of the operation, <input type="checkbox"/> The maximum amount of water to be diverted, <input type="checkbox"/> A description of the need for the dewatering operation, and, <input type="checkbox"/> A description of how the diverted water will be disposed of.</p> <p>Ground Source Heat Pump: <input type="checkbox"/> Include a description of the geothermal heat exchange project, <input type="checkbox"/> The number of boreholes for the completed project and required depths. <input type="checkbox"/> The time frame for constructing the geothermal heat exchange project, and, <input type="checkbox"/> The duration of the project. <input type="checkbox"/> Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.</p>	<p>Mine De-Watering: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for mine dewatering. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The source(s) of the water to be diverted. <input type="checkbox"/> The geohydrologic characteristics of the aquifer(s). <input type="checkbox"/> The maximum amount of water to be diverted per annum. <input type="checkbox"/> The maximum amount of water to be diverted for the duration of the operation. <input type="checkbox"/> The quality of the water. <input type="checkbox"/> The method of measurement of water diverted. <input type="checkbox"/> The recharge of water to the aquifer. <input type="checkbox"/> Description of the estimated area of hydrologic effect of the project. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. <input type="checkbox"/> A description of the methods employed to estimate effects on surface water rights and underground water rights. <input type="checkbox"/> Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.</p>
<p>Monitoring <input type="checkbox"/> The reason and duration of the monitoring is required.</p>			

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Tyrol Mining LLC
Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

[Signature]
Applicant Signature

Applicant Signature

ACTION OF THE STATE ENGINEER

This application is:

- approved partially approved denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this _____ day of _____ 20____, for the State Engineer,

_____, State Engineer

By: _____
Signature

Print

Title: _____
Print

FOR OSE INTERNAL USE

Application for Permit, Form WR-07 Version 07/12/22

File No.:	Trn No.:
-----------	----------

File No. _____

NEW MEXICO OFFICE OF THE STATE ENGINEER



WR-07 APPLICATION FOR PERMIT TO DRILL

A WELL WITH NO WATER RIGHT

(check applicable boxes):



For fees, see State Engineer website: <https://www.ose.nm.gov/>

Purpose:	<input type="checkbox"/> Pollution Control And/Or Recovery	<input type="checkbox"/> Ground Source Heat Pump
<input type="checkbox"/> Exploratory Well*(Pump test)	<input type="checkbox"/> Construction Site/Public Works Dewatering	<input checked="" type="checkbox"/> Other(Describe): Exploration
<input type="checkbox"/> Monitoring Well	<input type="checkbox"/> Mine Dewatering	

A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.

*New Mexico Environment Department-Drinking Water Bureau (NMED-DWB) will be notified if a proposed exploratory well is used for public water supply.

Check here if the borehole is anything other than vertical (directional boring or angle boring) and include a schematic of your design.

Temporary Request - Requested Start Date: _____ Requested End Date: _____

Plugging Plan of Operations Submitted? Yes No

Note: if there is known artesian conditions, contamination or high mineral content at the drilling location, include the borehole log or a well log from an existing well at that location. If this information is not submitted, check box and attach form WD-09 to this form.

1. APPLICANT(S)

Name: Tyrone Mining LLC	Name:
Contact or Agent: Ty Bays	Contact or Agent:
check here if Agent <input checked="" type="checkbox"/>	check here if Agent <input type="checkbox"/>
Mailing Address: P.O. Box 571	Mailing Address:
City: Tyrone	City:
State: NM	State:
Zip Code: 88065	Zip Code:
Phone: Phone (Work):	Phone: Phone (Work):
<input type="checkbox"/> Home <input type="checkbox"/> Cell	<input type="checkbox"/> Home <input type="checkbox"/> Cell
E-mail (optional): tbays@fmi.com	E-mail (optional):

FOR OSE INTERNAL USE

Application for Permit, Form WR-07, Rev 07/10/2024

File No.:	Trn. No.:	Receipt No.:
Trans Description (optional):		
Sub-Basin:	PCW/LOG Due Date:	

2. WELL(S) Describe the well(s) applicable to this application.

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84).
 District II (Roswell), District V (Aztec) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

NM State Plane (NAD83) (Feet) UTM (NAD83) (Meters) Lat/Long (WGS84) (to the nearest 1/10th of second)
 NM West Zone Zone 12N
 NM East Zone Zone 13N
 NM Central Zone

Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	-Public Land Survey System (PLSS) (QQQSection, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name	Well Depth in feet	Casing Diameter (OD)
EM 24-07	108' 21' 18.25	32' 34' 48.52		2500	5 1/2
EM 24-09	108' 21' 13.49	32' 36' 52.95		2500	5 1/2
EM 24-12	108' 21' 13.12	32' 37' 13.05		2500	5 1/2
EM 24-14	108' 21' 16.75	32' 37' 14.93		2500	5 1/2
EM 24-20	108' 21' 10.79	32' 37' 12.71		2500	5 1/2

NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)
 Additional well descriptions are attached: Yes No If yes, how many **3**

Other description relating well to common landmarks, streets, or other:

Well is on land owned by: Tyrone Mining LLC

Well Information: NOTE: If casings telescope or involve nested casing, please provide diagram. Attached? Yes No

Approximate depth to water (feet): unknown

Driller Name: Layne Driller License Number: WD-1723

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

Exploration holes for mineral evaluation. All wells will be plugged and abandon upon completion of drilling and sampling, to OSE standards with a wet cement from bottom to the top, applied with a tremie line.

FOR OSE INTERNAL USE

Application for Permit, Form WR-07 Version 07/10/2024

File No.:

Trn No.:



NEW MEXICO OFFICE OF THE STATE ENGINEER



ATTACHMENT 1 POINT OF DIVERSION DESCRIPTIONS

This Attachment is to be completed if more than one (1) point of diversion is described on an Application or Declaration.

a. Is this a: <input type="checkbox"/> Move-From Point of Diversion(s) OR <input type="checkbox"/> Move-To/New Point of Diversion(s)			b. Information on Attachment(s): Number of points of diversion involved in the application: _____ Total number of pages attached to the application: _____		
<input type="checkbox"/> Surface Point of Diversion OR <input checked="" type="checkbox"/> Well					
Name of ditch, acequia, or spring:					
Stream or water course:					
Tributary of:					
c. Location (Required): Required: Move to New POD location coordinate(s) must be either New Mexico State Plane (NAD 83), UTM (NAD 83), or Lat/Long (WGS84)					
NM State Plane (NAD83) (feet) NM West Zone <input type="checkbox"/> NM Central Zone <input type="checkbox"/> NM East Zone <input type="checkbox"/>	UTM (NAD83) (meters) Zone 13N <input type="checkbox"/> Zone 12N <input type="checkbox"/>	<input checked="" type="checkbox"/> Lat/Long— (WGS84) 1/10 th of second	OTHER (allowable only for move-from descriptions see application form format) <input type="checkbox"/> PLSS (quarterns, sections, townships, ranges) <input type="checkbox"/> Hydrographic Survey, Map & Tract <input type="checkbox"/> Lot, Block & Subdivision <input type="checkbox"/> Grant	Well Depth (in feet) * Required on new wells	Casing outside diameter (in inches) * Required on new wells
POD Number:	X or Longitude	Y or Latitude	Other Location Description:		
EM 24-24	108° 21' 19.11	32° 36' 54.01		2500	5 1/2
POD Number:	X or Longitude	Y or Latitude	Other Location Description:		
EM 24-26	108° 21' 04.17	32° 36' 41.17		2500	5 1/2
POD Number:	X or Longitude	Y or Latitude	Other Location Description:		
EM 24-27	108° 21' 06.40	32° 36' 57.09		2500	5 1/2
POD Number:	X or Longitude	Y or Latitude	Other Location Description:		
POD Number:	X or Longitude	Y or Latitude	Other Location Description:		
POD Number:	X or Longitude	Y or Latitude	Other Location Description:		
POD Number:	X or Longitude	Y or Latitude	Other Location Description:		
POD Number:	X or Longitude	Y or Latitude	Other Location Description:		
POD Number:	X or Longitude	Y or Latitude	Other Location Description:		

FOR OFFICIAL USE

Form WR-08 Version 07/16/2024
 POD DESCRIPTIONS- ATTACHMENT 1

File Number:	Trn Number:
Trans Description (optional):	

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

<p>Exploratory*: Is proposed well a future public water supply well? <input type="checkbox"/> Yes <input type="checkbox"/> NO If Yes, an application must be filed with NMED-DWB, concurrently. <input type="checkbox"/> Include a description of any proposed pump test, if applicable.</p>	<p>Pollution Control and/or Recovery: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for the pollution control or recovery operation. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The annual diversion amount. <input type="checkbox"/> The annual consumptive use amount. <input type="checkbox"/> The maximum amount of water to be diverted and injected for the duration of the operation. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> The method of measurement of water produced and discharged. <input type="checkbox"/> The source of water to be injected. <input type="checkbox"/> The method of measurement of water injected. <input type="checkbox"/> The characteristics of the aquifer. <input type="checkbox"/> The method of determining the resulting annual consumptive use of water and depletion from any related stream system. <input type="checkbox"/> Proof of any permit required from the New Mexico Environment Department. <input type="checkbox"/> An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.</p>	<p>Construction De-Watering: <input type="checkbox"/> Include a description of the proposed dewatering operation, <input type="checkbox"/> The estimated duration of the operation, <input type="checkbox"/> The maximum amount of water to be diverted, <input type="checkbox"/> A description of the need for the dewatering operation, and, <input type="checkbox"/> A description of how the diverted water will be disposed of.</p> <p>Ground Source Heat Pump: <input type="checkbox"/> Include a description of the geothermal heat exchange project, <input type="checkbox"/> The number of boreholes for the completed project and required depths. <input type="checkbox"/> The time frame for constructing the geothermal heat exchange project, and, <input type="checkbox"/> The duration of the project. <input type="checkbox"/> Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.</p>	<p>Mine De-Watering: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for mine dewatering. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The source(s) of the water to be diverted. <input type="checkbox"/> The geohydrologic characteristics of the aquifer(s). <input type="checkbox"/> The maximum amount of water to be diverted per annum. <input type="checkbox"/> The maximum amount of water to be diverted for the duration of the operation. <input type="checkbox"/> The quality of the water. <input type="checkbox"/> The method of measurement of water diverted. <input type="checkbox"/> The recharge of water to the aquifer. <input type="checkbox"/> Description of the estimated area of hydrologic effect of the project. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. <input type="checkbox"/> A description of the methods employed to estimate effects on surface water rights and underground water rights. <input type="checkbox"/> Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.</p>
---	---	--	---

(* if exploration or monitoring drilling activity is required by NMED, then you must also submit the NMED Work Plan)

ACKNOWLEDGEMENT

I, We (name of applicant(s)), TYSONE MINING LLC
Print Name(s)

affirm that the foregoing statements are true to the best of (my,our) knowledge and belief.

[Signature] Applicant Signature
[Signature] Applicant Signature

ACTION OF THE STATE ENGINEER

This application is:

approved partially approved denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this _____ day of _____ 20____, for the State Engineer,

_____, State Engineer

By: _____
Signature Print

Title: _____
Print

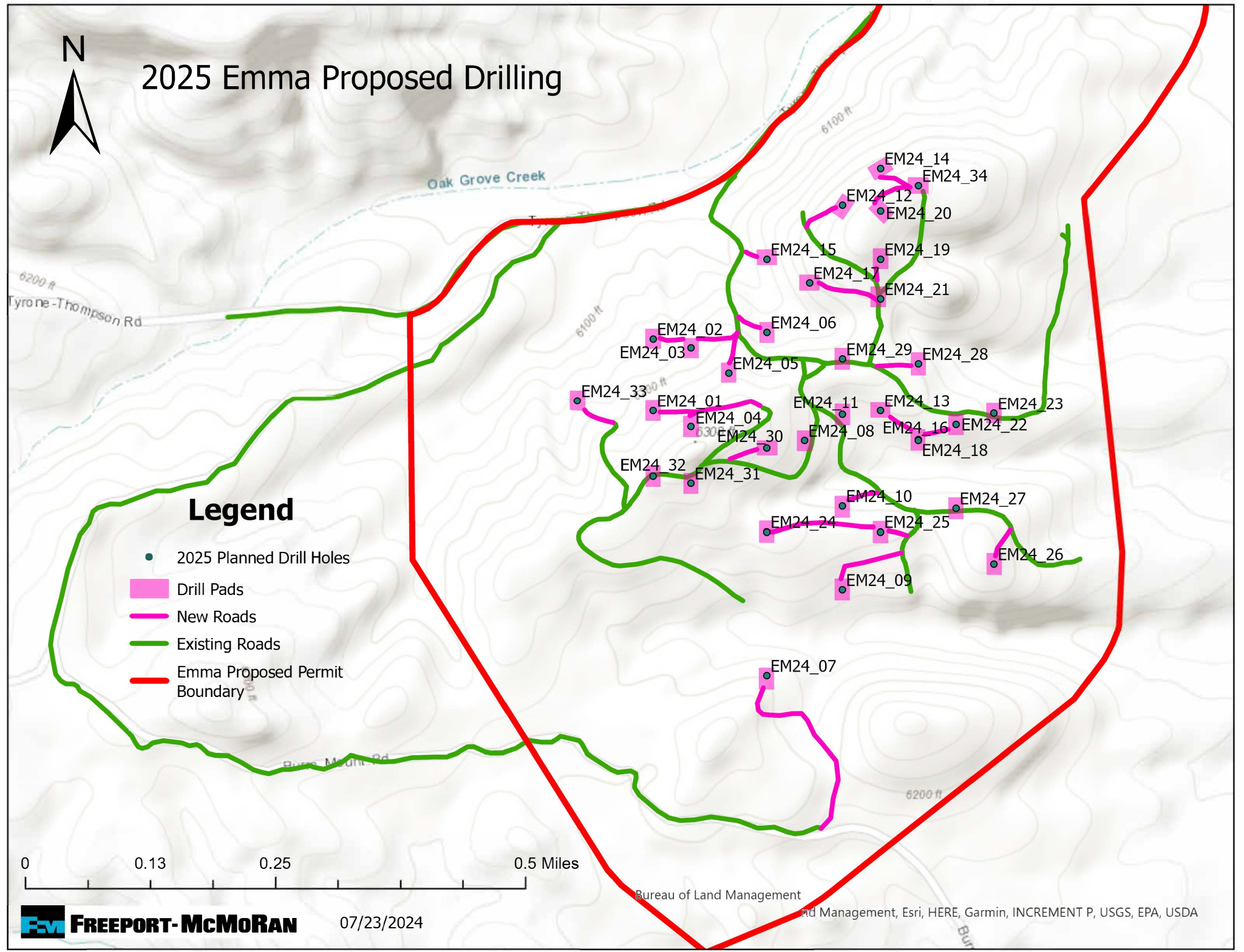
FOR OSE INTERNAL USE

Application for Permit, Form WR-07 Version 07/10/2024

File No.:	Trn No.:
-----------	----------



2025 Emma Proposed Drilling



Legend

- 2025 Planned Drill Holes
- Drill Pads
- New Roads
- Existing Roads
- Emma Proposed Permit Boundary





2025 Emma Proposed Drilling

Legend

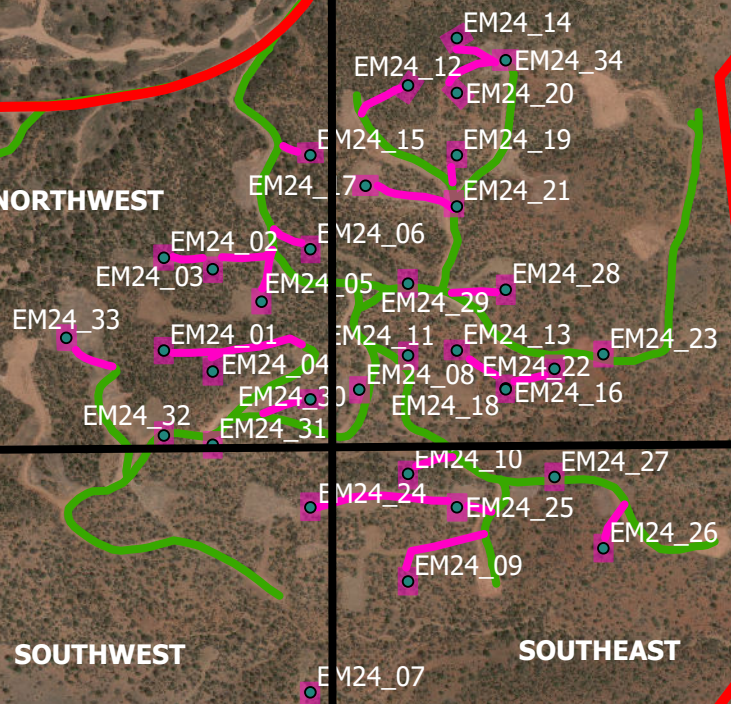
- 2025 Planned Drill Holes
- Drill Pads
- New Roads
- Existing Roads
- Emma Proposed Permit Boundary

NORTHWEST

NORTHEAST

SOUTHWEST

SOUTHEAST



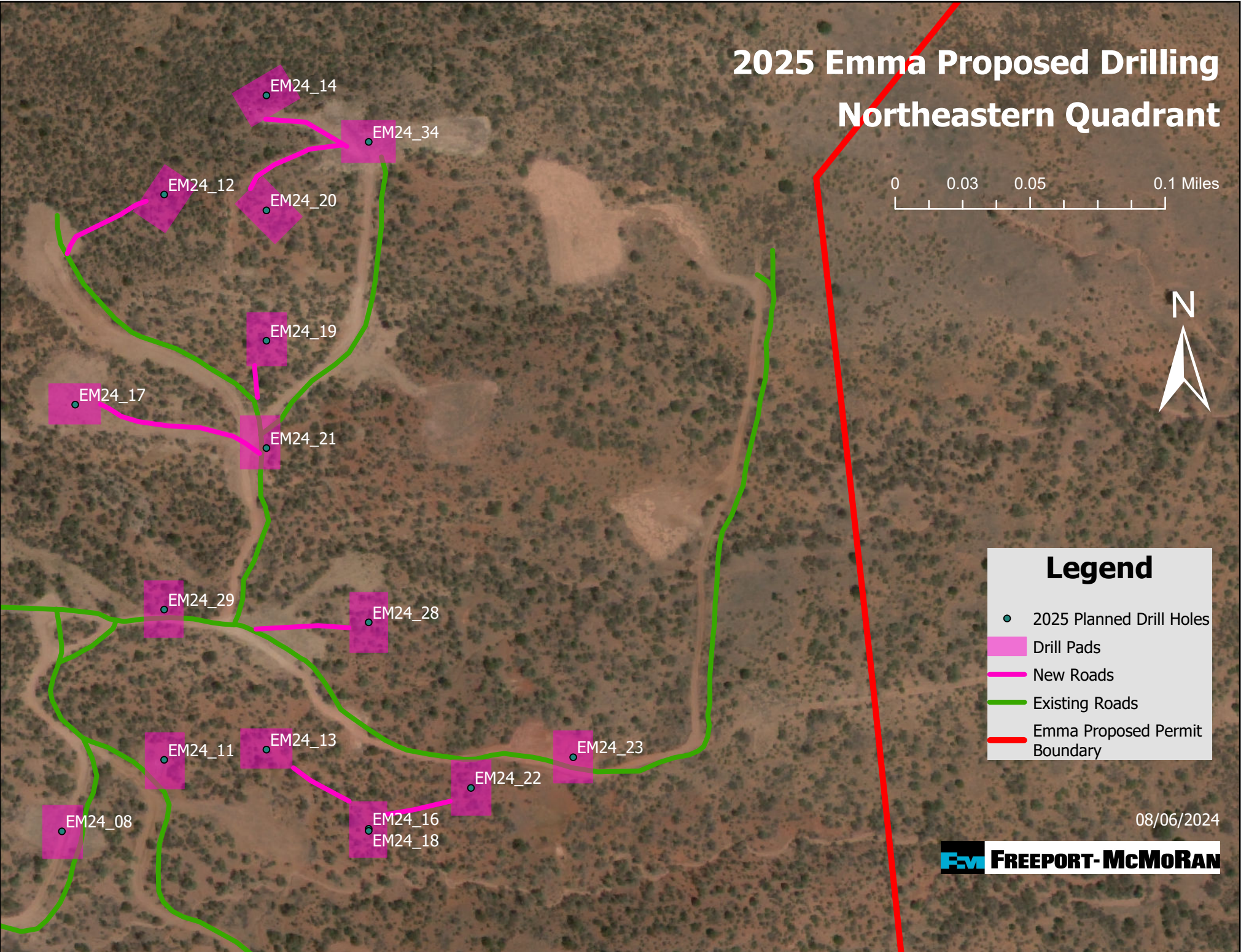
2025 Emma Proposed Drilling Northeastern Quadrant



Legend

- 2025 Planned Drill Holes
- Drill Pads
- New Roads
- Existing Roads
- Emma Proposed Permit Boundary

08/06/2024



2025 Emma Proposed Drilling Northwestern Quadrant

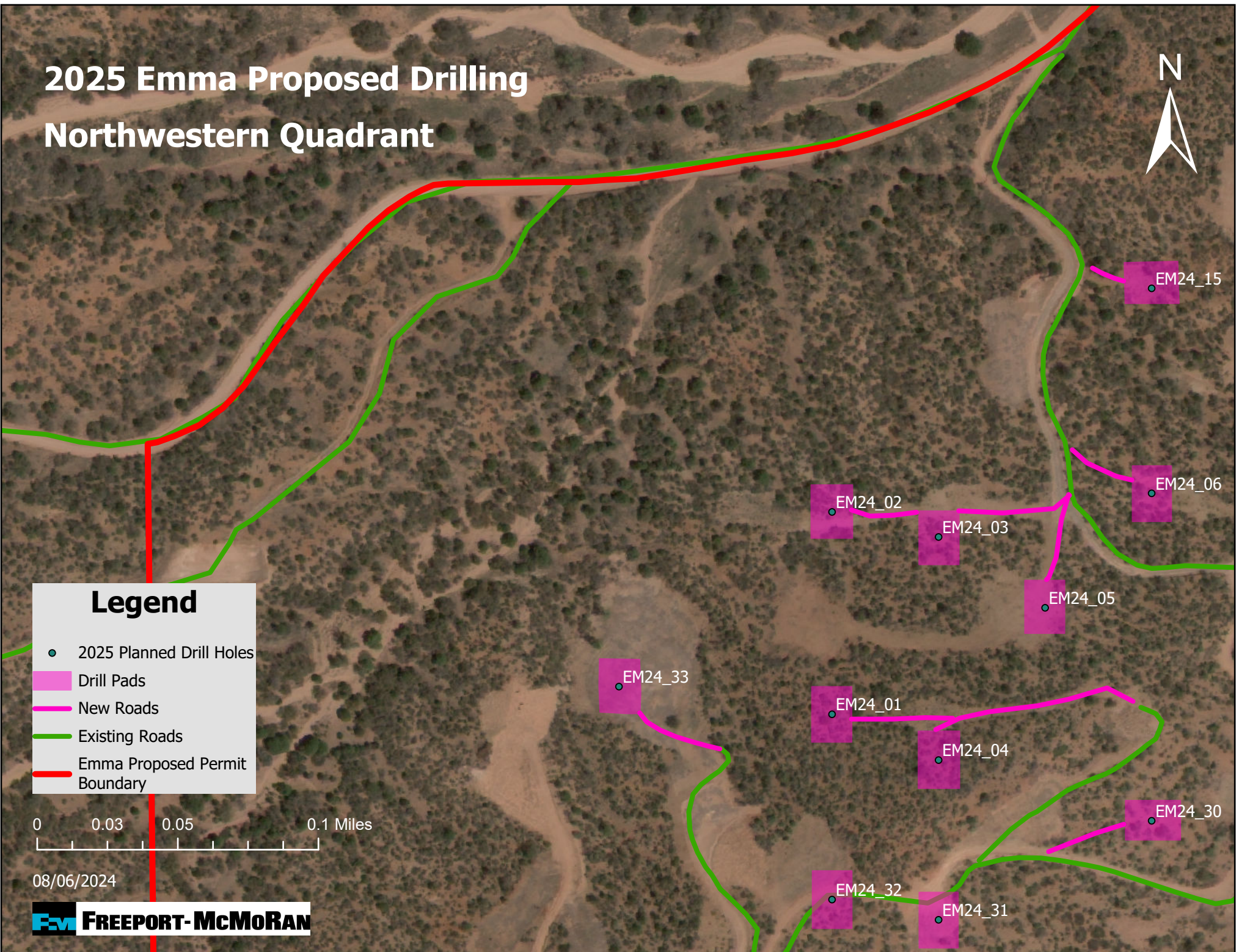


Legend

- 2025 Planned Drill Holes
- Drill Pads
- New Roads
- Existing Roads
- Emma Proposed Permit Boundary



08/06/2024



- EM24_15
- EM24_06
- EM24_02
- EM24_03
- EM24_05
- EM24_33
- EM24_01
- EM24_04
- EM24_30
- EM24_32
- EM24_31

2025 Emma Proposed Drilling Southeastern Quadrant



Legend

- 2025 Planned Drill Holes
- Drill Pads
- New Roads
- Existing Roads
- Emma Proposed Permit Boundary

08/06/2024



EM24_10

EM24_27

EM24_25

EM24_26

EM24_09

2025 Emma Proposed Drilling Southwestern Quadrant



Legend

- 2025 Planned Drill Holes
- Drill Pads
- New Roads
- Existing Roads
- Emma Proposed Permit Boundary



08/06/2024



EM24_24

EM24_07