

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



September 7, 2018

Certified Mail #9171999991703580062535
Return Receipt Requested

Mr. David Otori
Senior Reclamation Specialist
State of New Mexico Energy, Minerals and Natural Resources Department
Mining and Minerals Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Dear Mr. Otori:

Re: Minimal Impact Exploration Permit Application Part 3

Attached is the permit application for an area west of our existing Little Rock Mine. Please let me know if you have any questions or comments regarding this application. Our hope is to begin this project in mid-October of this year. This project consist of only four holes and the impact of this project will be minimal and all disturbance will occur on our private land, which consists of patented mining claims where we own both the surface and mineral estate.

Tyrone disagrees with MMD's cost estimate, but in the essence of time, Tyrone will put a bond in place using the Emma project unit rates for the plugging and abandoning of the holes and surface reclamation.

Also included are the well permits, which have been submitted to the OSE office in Deming. We do expect them back in a couple of weeks, and if needed, I can provide the approved permits once we receive them. Thank you in advance for your cooperation in this matter.

Sincerely,



Ty Bays
Senior Land and Water Resource Analyst

TRB
Attachments
20180907-100

PART 3
MINIMAL IMPACT EXPLORATION OPERATION
PERMIT APPLICATION

Accompanying instructions for this permit application are available from MMD, and on MMD webpage:

<http://www.emnrd.state.nm.us/MMD/MARP/MARPAApplicationandReportingForms.htm>

Send 6 copies of the completed application to:

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

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

CHECK OFF LIST TO DETERMINE YOUR PROJECT'S STATUS AS A MINIMAL IMPACT EXPLORATION OPERATION:

- Yes No My project **will exceed 1000 cubic yards of excavation**, per permit (drill pads, mud pits, and roads will not be counted in excavated materials).
- Yes No Surface disturbances for constructed roads, drill pads and mud pits **will exceed 5 acres** total for my project.
- Yes No My project is located in or is expected to have a direct surface impact on wetlands, springs, perennial or intermittent streams, lakes, rivers reservoirs or riparian areas.
- Yes No My project is located in designated critical habitat areas as determined in accordance with the federal Endangered Species Act of 1973 or in areas determined by the Department of Game and Fish likely to result in an adverse impact on an endangered species designated in accordance with the Wildlife Conservation Act, Sections 17-2-37 through 17-2-46 NMSA 1978 or by the State Forestry Division for the Endangered Plants Act, section 75-6-1 NMSA 1978.

- Yes No My project is located in an area designated as Federal Wilderness Area, Wilderness Study Area, Area of Critical Environmental Concern, or an area within the National Wild and Scenic River System.
- Yes No My project is located in a known cemetery or other burial ground.
- Yes No My project is located in an area with cultural resources listed on either the National Register of Historic Places or the State Register of Cultural Properties.
- Yes No My project will or is expected to have a direct impact on ground water that has a total dissolved solids concentration of less than 10,000 mg/L, except exploratory drilling intersecting ground water may be performed as a minimal impact operation.
- Yes No My project is expected to use or using cyanide, mercury amalgam, heap leaching or dump leaching in its operations.
- Yes No My project is expected to result in point or non-point source surface or subsurface releases of acid or other toxic substances from the permit area.
- Yes No My project requires a variance from any part of the Mining Act Rules as part of the permit application.

If you answer yes to any of the above questions, your project does not qualify as a minimal impact exploration operation.

Confidential Information

- Yes No Is any of the information submitted in this application considered by the applicant to be confidential in nature? If yes, please provide this information separately and marked as "confidential."

Timeline

- Exploration applications must be provided no less than 45 days prior to the anticipated date of operations desired by the applicant.
- Renewal applications shall be filed at least 30 days preceding expiration of the current permit. Permits are valid for one year.
- Approved permit is valid for one year from the date of approval.

SECTION 1 – OPERATOR INFORMATION (§304.D.1)

Project Name: West Little Rock

Nearest Town To Project: Tyrone, NM 88065

Applicant Name and Contact Information (entity obligated under the Mining Act):

Name: Freeport McMoRan-Tyrone Mining, LLC.

Address: P.O. Box 571 Tyrone, NM 88065

Office Phone: 575-912-5757 **Cell Phone:** 575-313-0913

Fax Number: _____ **Email:** tbays@fmi.com

Name of On-Site Contact, Representative, or Consultant:

Name: Ty Bays

Address: Same as above

Office Phone: Same as above **Cell Phone:** Same as above

Fax Number: _____ **Email:** _____

SECTION 2 – RIGHT TO ENTER INFORMATION (§302.D.1)

- A. Describe or attach copies of documents that give the applicant the right to enter the property to conduct the exploration and reclamation, include: lease agreements, access agreements, right of way agreements, surface owner agreements, and claim numbers, if applicable.

Applicant owns all property.

Attachment _____

- B. List the names and addresses of surface and mineral ownership within the proposed permit area. If the mineral is federal mineral, indicate as federal mineral, but provide the name of the claim holder or lease holder.

Surface Estate Owner(s):

Name	Address	Phone #
<input type="checkbox"/> U.S. BLM	_____	_____
<input type="checkbox"/> U.S. Forest Service	_____	_____
<input type="checkbox"/> State of NM	_____	_____
<input checked="" type="checkbox"/> Private/Corporate	_____	_____
Name: Freeport McMoRan Tyrone Mining, LLC P.O. Box 571 Tyrone, NM 889065		575-912-5757
<input type="checkbox"/> Other	_____	_____
Name: _____		_____

Lease Holder(s) of Surface Estate (if applicable):

Name	Address	Phone #
_____	_____	_____
_____	_____	_____
_____	_____	_____

Mineral Estate Owner(s):

Name	Address	Phone #
<input type="checkbox"/> Bureau of Land Management	_____	_____
<input type="checkbox"/> US Forest Service	_____	_____
<input type="checkbox"/> State of NM	_____	_____
<input type="checkbox"/> Claim/Lease Holder	_____	_____
Name: _____	_____	_____
Claim Numbers: _____		
<input type="checkbox"/> Claim/Lease Holder	_____	_____
Name: _____	_____	_____
Claim Numbers: _____		

Other All Private surface and mineral owned by Freeport
McMoRan- Tyrone Mining, LLC _____

Name: _____

C. Has a Cultural Resource Survey been performed on the site?

Yes No If yes, please provide the author, title, date and report number, and include a copy of the survey with this application, if possible:

A review of the files and data show no known burial sites or cultural sites on this land.

Attachment _____

D. Has a wildlife survey or vegetation survey been performed for the permit area?

Yes No If yes, please provide the author, title, date and report number, and include a copy of the survey with this application, if possible:

Surveys of soil, vegetation and wildlife for the Tyrone Mine area are summarized in Sections 2.6 and 2.9 of the Revised Closure/Closeout Plan Tyrone Mine dated April 30, 1999 and are applicable to the proposed exploration area. _____

Attachment _____

Are topographic maps included with the application that show the following items:

- Yes – The boundary of the proposed exploration project Permit Area
- Yes – The proposed exploration locations (i.e., borehole locations)
- Yes – Existing roads, new roads and overland travel routes
- Yes N/A – Areas of proposed road improvement

Attachments 4

Are maps or figures included with the application showing the approximate dimensions and locations of drill pads and other disturbances:

- Yes – Drill pad dimensions and constructed drill pad locations

Attachments 1

C. Provide detailed driving directions to access the site: From Silver City, drive 10 miles south on Hwy 90S. Turn East onto Mangas Valley County maintained road. Approximately 1/2 mile turn onto existing Tyrone Mine access road. Gate is locked and will require an escort to the area by permittee.

SECTION 4 – EXPLORATION DESCRIPTION (§302.D.3 & 4)

A. Anticipated exploration: Start Date: 10-1-18 End Date: 2-31-19

B. List the mineral(s)/element(s) to be explored for: Copper

C. Proposed method(s) of exploration:

Air drilling (air rotary, coring, etc.):

4 # of holes 1300 Depth (ft.) 6" Diameter (in.)

4 # of drill pads 70 Length (ft.) 40 Width (ft.)

Will drill pads be graded/bladed or overland: Graded/bladed Overland

Will drill pads need some mechanical leveling (grading/blading): Yes No

Approx. Weight of Drill Rig (lbs.) 65,000 lbs Number of Axles: Track mounted

Total length of drill stem that can be carried on the rig: 400' (20' pipe) 8800 lbs.

Is a support pipe truck anticipated? Yes No 65,000 Weight (lbs.)

Weight of support compressor (lbs.): N/A Trailer mounted? N/A

Anticipated Drilling Contractor: Layne Christensen License No. WD -1728

Mud/fluid drilling:

_____ # of holes _____ Depth (ft.) _____ Diameter (in.)

_____ # of drill pads _____ Length (ft.) _____ Width (ft.)

Will drill pads be graded/bladed or overland: Graded/bladed Overland

Will drill pads need some mechanical leveling (grading/blading): Yes No

Will a closed loop system be used or will mud/fluid pits be used? _____

If mud/fluid pits are proposed:

_____ # of pits _____ Length (ft.) _____ Width (ft.) _____ Depth (ft.)

Anticipated excavating equipment: _____

How will excavating equipment be transported to the site (i.e., driven, low-boy, etc.):

Will mud pits be lined?: Yes No

If yes, proposed material to line the mud pits: _____

Approx. Weight of Drill Rig (lbs.) _____ Number of Axles: _____

Anticipated Drilling Contractor: _____ License No. _____

Test pits / exploratory trenches:

_____ # of pits _____ Length (ft.) _____ Width (ft.) _____ Depth (ft.)

Anticipated excavating equipment: _____

How will excavating equipment be transported to the site (i.e., driven, low-boy, etc.): _____

Other methods of exploration (i.e., cuts, shafts, tunnels, adits, declines, blasting, etc.). Indicate method and details: _____

TOTAL ACREAGE TO BE DISTURBED DUE TO DRILL PADS = 0.92 acres
(to convert to acres, multiply total square footage of drill pads by 0.0000229)

D. Disposal of drill cuttings

If this exploration project is for uranium or other radioactive elements/minerals, applicant agrees to perform a gamma radiation survey at each drill site prior to, and after, exploration activities. Applicant/Owner/Operator agrees to restore gamma radiation levels at each drill site to pre-exploration levels. Yes No N/A

Will excess drill cuttings be buried at each drill site location or within a single disposal pit?
 At each drill pad location Within a single disposal pit

If a single disposal pit is proposed, please provide the following:

Description or GPS coordinates of the proposed cuttings disposal pit location:

Dimensions of the single proposed cuttings disposal pit (length, width, and depth):

_____ Length (ft.) _____ Width (ft.) _____ Depth (ft.)

TOTAL ACREAGE TO BE DISTURBED DUE TO DISPOSAL PIT = _____ acres
(to convert to acres, multiply total square footage of disposal pit by 0.0000229)

E. Other Supporting Equipment (check all that apply):

<input checked="" type="checkbox"/> 4x4 Trucks/Vehicles	Quantity:	<u>4 4X4 trucks</u>
<input checked="" type="checkbox"/> Water Truck	Weight (lbs.):	<u>25,000</u>
<input type="checkbox"/> Geophysical Truck	Weight (lbs.):	_____
<input checked="" type="checkbox"/> Pipe Truck (rig support)	Weight (lbs.):	<u>65,000</u>
<input checked="" type="checkbox"/> Bulldozer	Type:	<u>Cat D6</u>
<input checked="" type="checkbox"/> Backhoe	Type:	<u>Cat 420</u>
<input type="checkbox"/> Trackhoe	Type:	_____
<input type="checkbox"/> Scaper/Grader	Type:	_____

- Trailers
- Portable Toilet
- Other

Quantity/Type: _____

Quantity: 1

List: _____

F. Roads and Overland Travel:

List of new roads to be constructed for this exploration project:

Description of <i>NEW</i> Roads	Length (ft.)	Width (ft.)	Total Acres (length x width x 0.0000229)
15-foot wide bladed road	145	15	0.0000229
TOTAL ACRES DISTURBED BY NEW ROAD CONSTRUCTION :			0.05

Describe how new roads will be constructed: Bulldozer will push them in following GPS staked points from map.

List for extension or widening of existing roads:

Description of Modification to <i>EXISTING</i> Roads	Length (ft.)	Width (ft.)	Total Acres (length x width x 0.0000229)
None			
TOTAL ACRES DISTURBED BY ROAD IMPROVEMENTS :			0

Describe how existing roads will be extended or widened: Existing roads will be bladed of rocks and fallen debris as need to for safe passage.

List for routes of overland travel:

Description of <i>OVERLAND TRAVEL</i> Routes	Length (ft.)	Width (ft.)	Total Acres (length x width x 0.0000229)
TOTAL ACRES DISTURBED BY OVERLAND TRAVEL :			

G. Support Facilities

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

None on site

H. TOTAL ACREAGE TO BE DISTURBED BY PROJECT = 0.97 acres
 (include all disturbed acreage from drill pads, cuttings disposal pit, new roads, improved

C. Describe where equipment fueling/refueling will occur:

Drill rig refueling will be done on-site via pickup with fuel tank. Soils will be cleaned up and contaminated soil will be disposed of at Tyrone Mine until final disposal.

D. Describe how hazardous material spills/leaks will be handled:

Removed and disposed of with licensed PCS containment facility.

E. Identify spill cleanup materials that will be kept on-site (check all that apply):

- Bentonite clay or cat litter
- Adsorbent pads, rolls, mats, socks, pillows, dikes, etc.
- Drum or barrel for containing contaminated soil/adsorbent materials
- Other/list: _____
- Other/list: _____
- Other/list: _____

F. Applicant/owner/representative agrees to immediately notify the State of New Mexico immediately of any spills of hazardous materials (see page 1 of this application for phone numbers to notify): Yes No

SECTION 6 – GROUNDWATER/SURFACE WATER INFORMATION
(§302.D.5)

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

Depth to groundwater (ft.): 500 TDS concentration (mg/L): _____

Describe the source of this information: Area well logs

B. Will dewatering activities be conducted: Yes No

If yes, please describe: _____

C. Is groundwater anticipated to be encountered during exploration: Yes No

If YES:

Have you completed Form WR-07 (Application for permit to drill a well with no consumptive use of water) and mailed it to the District Office of the State Engineer? Yes

Have you completed Form WD-08 (Well plugging plan of operations) and mailed it to the District Office of the State Engineer? Yes

Attachment 1 (copies of the completed WR-07 and WD-08 forms)

D. Exploration Borehole Abandonment

Dry Boreholes

Dry hole abandonment (option 1): 100% bentonite pellets/chips (i.e. HOLEPLUG® manufactured by Baroid Industrial Products), dropped from surface then hydrated in place according to the manufacturer's recommendations, emplaced from total depth to within 12 feet of the original ground surface, followed by 10 feet of neat cement, followed

by 2 feet of topsoil/topdressing.

- Dry hole abandonment (option 2): Neat cement slurry, mixed according to the manufacturer's recommendations, emplaced with a tremie pipe from total depth to within 2 feet of the original ground surface, followed by 2 feet of topsoil/topdressing.
- Dry hole abandonment (option 3): Cement + 6% bentonite slurry, mixed according to the manufacturer's recommendations, emplaced with a tremie pipe from total depth to within 2 feet of the original ground surface, followed by 2 feet of topsoil/topdressing.
- Dry hole abandonment (option 4): High-density bentonite clay ($\geq 20\%$ active solids; i.e. QUIK-GROUT® manufactured by Baroid Industrial Products), mixed according to the manufacturer's recommendations, emplaced with a tremie pipe from total depth to within 12 feet of the original ground surface, followed by 10 feet of neat cement, followed by 2 feet of topsoil/topdressing.
- Dry hole abandonment (option 5): Other materials / describe and justify use:

Wet Boreholes

- Wet hole abandonment (option 1): Neat cement slurry, mixed according to the manufacturer's recommendations, emplaced with a tremie pipe from total depth to within 2 feet of the original ground surface, followed by 2 feet of topsoil/topdressing.
- Wet hole abandonment (option 2): High-density bentonite clay ($\geq 20\%$ active solids; i.e. QUIK-GROUT® manufactured by Baroid Industrial Products), mixed according to the manufacturer's recommendations, emplaced with a tremie pipe from total depth to within 12 feet of the original ground surface, followed by 10 feet of neat cement, followed by 2 feet of topsoil/topdressing.
- Wet hole abandonment (option 3): Other sealing material approved by the Office of the State Engineer. Describe and include well plugging plan approval by the State Engineer:

D. Applicant agrees to contain any water produced from the exploration borehole at the drill site and acknowledges that discharge of this water to a watercourse may be a violation of the

Federal Clean Water Act: Yes No

E. Is any drilling proposed to occur within the channel of any perennial, intermittent, or ephemeral streams? Yes No

F. Is any drilling anticipated to occur within 100 feet of any perennial, intermittent, or ephemeral streams? Yes No

SECTION 7 – RECLAMATION & OPERATION PLAN
(§302.D.6 AND 302.I.K)

A. Salvage/Preservation of Topsoil

Before any grading/blading or similar activities occur in relation to this project, operator agrees to salvage and preserve all topsoil and topdressing for use in future reclamation of this project Yes No

Describe how topsoil will be salvaged prior to initiation of exploration activities (check all that apply): Stockpiled in place and used for reclamation.

- N/A – no construction work will occur, therefore no soil salvage is needed.
- Excavated from drill pads and stored at each drill pad
- Excavated from road improvements/construction and stored adjacent to road
- Excavated from mud/fluid pits and storage at each pit
- Other, describe: _____

B. Erosion Control

Describe the best management practices that will be implemented to control erosion:

- Silt fencing Location: _____
- Straw wattles Location: _____
- Straw bales Location: _____
- Ditches/swales Location: _____
- Berms/dikes/dams Location: Drill pads, roads and mud pits.
- Sediment basins Location: _____
- Other or N/A Type/Location: _____

C. Wildlife Protection / Noxious Weed Prevention

Will the perimeter of drill pits be fenced to prevent wildlife entrapment? Yes No

Proposed pit perimeter fence material: Temporary plastic tarps. Pits will be backfilled upon completion of drilling.

Describe how the pit perimeter fencing will be installed and secured (i.e., T-posts, wooden stakes, etc.):

Will at least one side of the interior of the drill pits be sloped at 3:1 as a ramp for wildlife escape? Yes No

If No, will another type of constructed escape ramp be installed? Describe:

Applicant/Owner/Operator commits to pressure-washing or steam-clean all equipment prior to entering the permit area: Yes No

D. Reclamation Details

Describe in general how re-contouring or re-establishment of the surface topography will be restored:

Back fill pits regrade drill sites and ripping if necessary. Roads will be regraded and ripped to prevent erosion. All sites will be re-seeded.

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

Same as roads and drill pads- regrading and seeding.

Is seeding of the reclaimed areas proposed: Yes No

If no, provide a justification as to why no revegetation is needed:

Plant mix to be used in the re-establishment of vegetation:

- US Forest Service specified mix applied through broadcast at their recommended rate
- BLM specified mix applied through broadcast at their recommended rate
- Other:

Plant Name	Seeding Rate (lbs./acre)
Blue Grama	1
Sideoats Grama	2
Sand Dropseed	.25
Indian Ricegrass	2
Purple Prairie Clover	2
Scarlet Globemallow	1
Winter Cover Crop of Triticale	10

Broadcast applied or drill-seeded: Broadcast Drill-seeded

Scarification Methods (check all that apply):

- Primary tillage to greater than 6-inches depth of all constructed drill pads and roads
- Secondary tillage of all constructed drill pads and roads, and/or overland travel routes
- Chain drag or tire drag over seeds in areas used for overland travel
- Light raking of soil over seeds in areas used for overland travel
- None
- Other/describe: Rip with blade 4-6 inches prior to seeding.

Mulch Use:

- Certified weed-free straw mulch will be placed over areas that have been tilled/disc'd or ripped at a rate of 2 tons per acre, and will be crimped in place
- No mulch is proposed

E. Reclamation Timeline

Applicant/Owner/Operator commits to reclamation of the disturbed area 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 permit:

- Yes No

Anticipated Start of Reclamation:

- 0-30 days after completion of drilling
- 31-60 days after completion of drilling
- Other/specify: _____

SECTION 8 – PERMIT FEES AND FINANCIAL ASSURANCE
(§302.1.2 AND 5)

A. Financial assurance must be posted with Mining and Minerals Division prior to approval of this application. The acceptable forms of financial assurance are surety bonds, letters of credit, and certificates of deposit. Provide an estimate of, and an instrument for, the proposed financial assurance required by Subpart 3.

- Surety Bond
 Letter of Credit
 Cash Account / Certificate of Deposit

Estimated amount of financial assurance: See attached

Or

Applicant will provide the amount of financial assurance calculated by MMD.

B. Attach the permit fees as determined pursuant to Subpart 2. The application fee for a minimal impact exploration permit is \$500.00.

- Money Order/Cashier's Check
 Check

Check Number : 0000903645

Financial Institution: Bank of America, N.A.

SECTION 9 – CERTIFICATION REQUIREMENT (§302.1.3 & 4)

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: Ty Bays
Name (type or print): Ty Bays
Title/Position: Sen. Land & Water Resource Analyst
Date: 9/7/18

2018 Financial Assurance Cost Estimate for Exploration Drilling

Description	Unit	Quantity	Unit Rate (\$/unit)	Total Cost (\$)
Drill Pad Reclamation	acre	0.05	\$ 8,900	\$ 443
Drill Road Reclamation	acre	0.92	\$ 8,900	\$ 8,152
Plug and Abandon Exploration Drill Holes	ft	5,200	\$ 14	\$ 72,800
Total				\$ 81,396

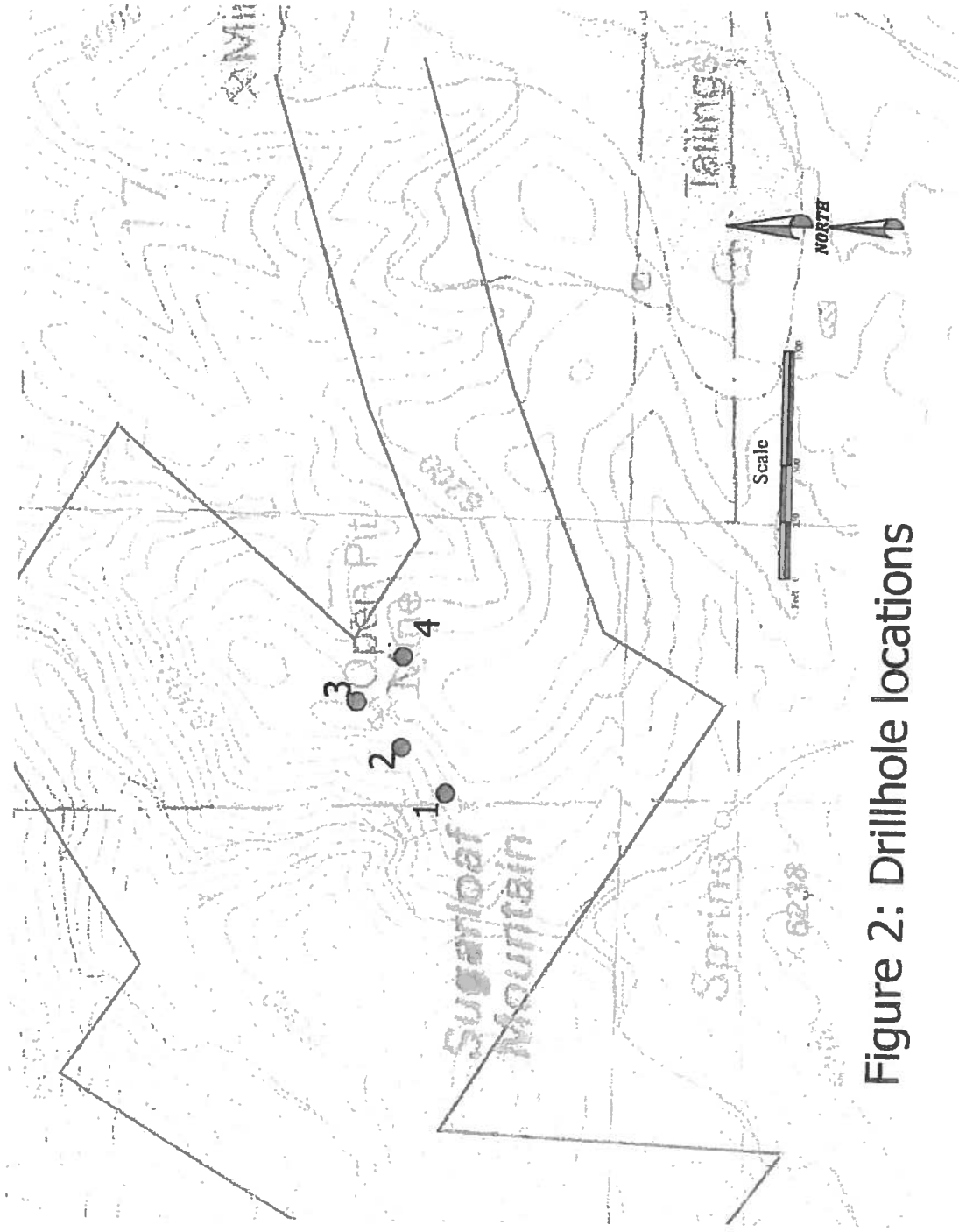


Figure 2: Drillhole locations

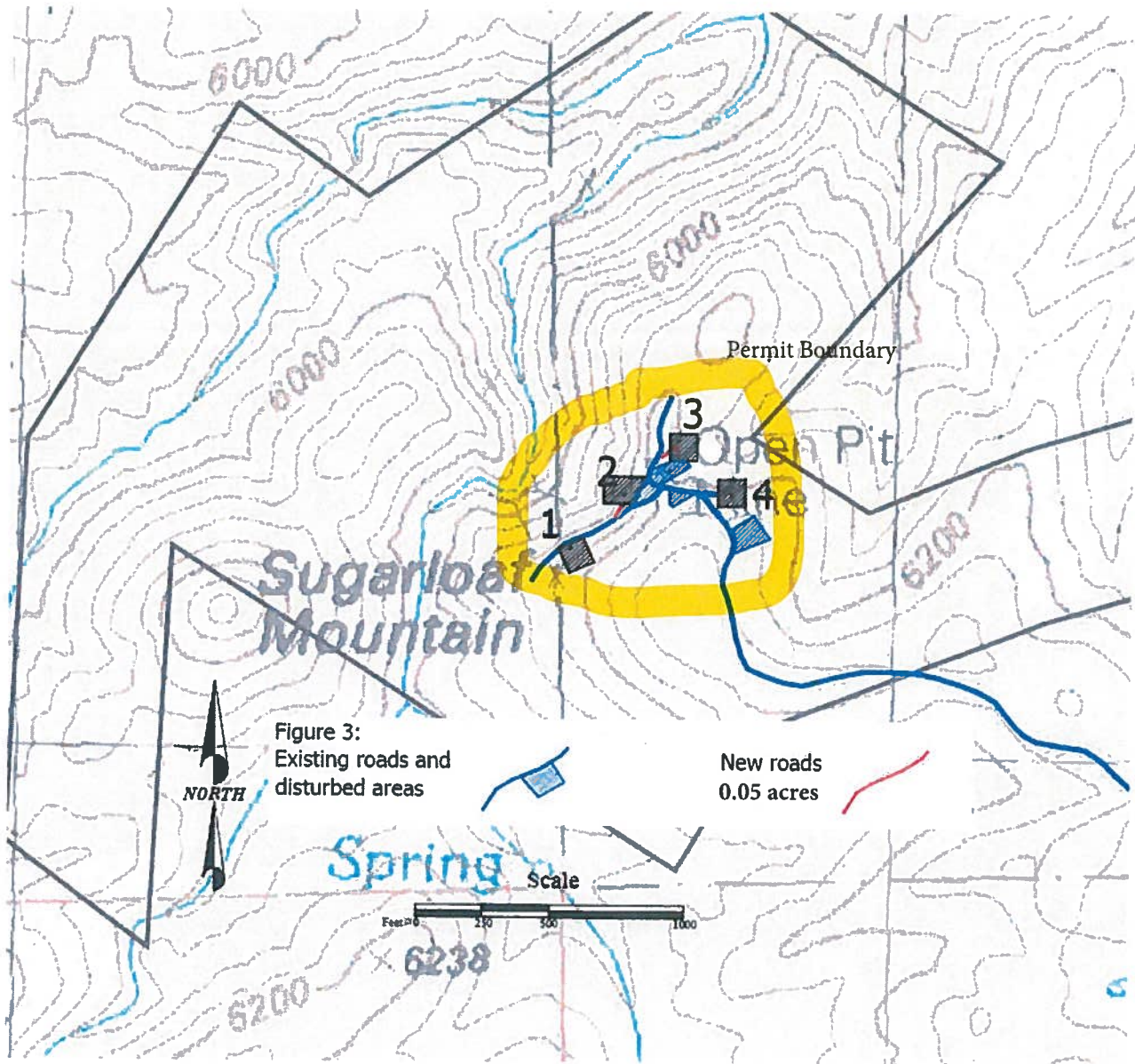


Figure 3:
Existing roads and
disturbed areas

New roads
0.05 acres

Table 1: Drill Pad Sizes

Drill Pad 1: 0.23 acres

Drill Pad 2: 0.23 acres

Drill Pad 3: 0.23 acres

Drill Pad 4: 0.23 acres

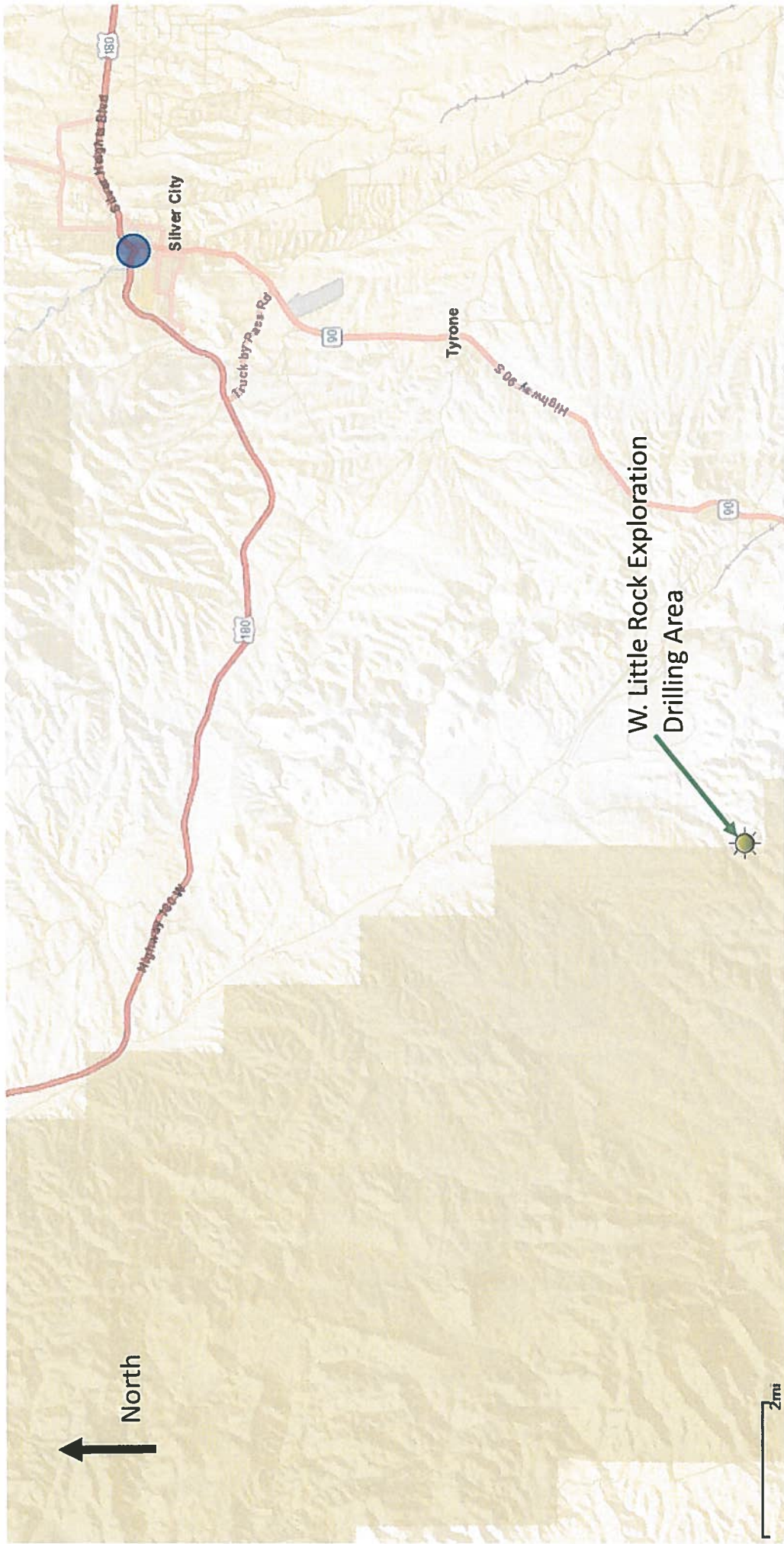


Figure 4: General Area Map

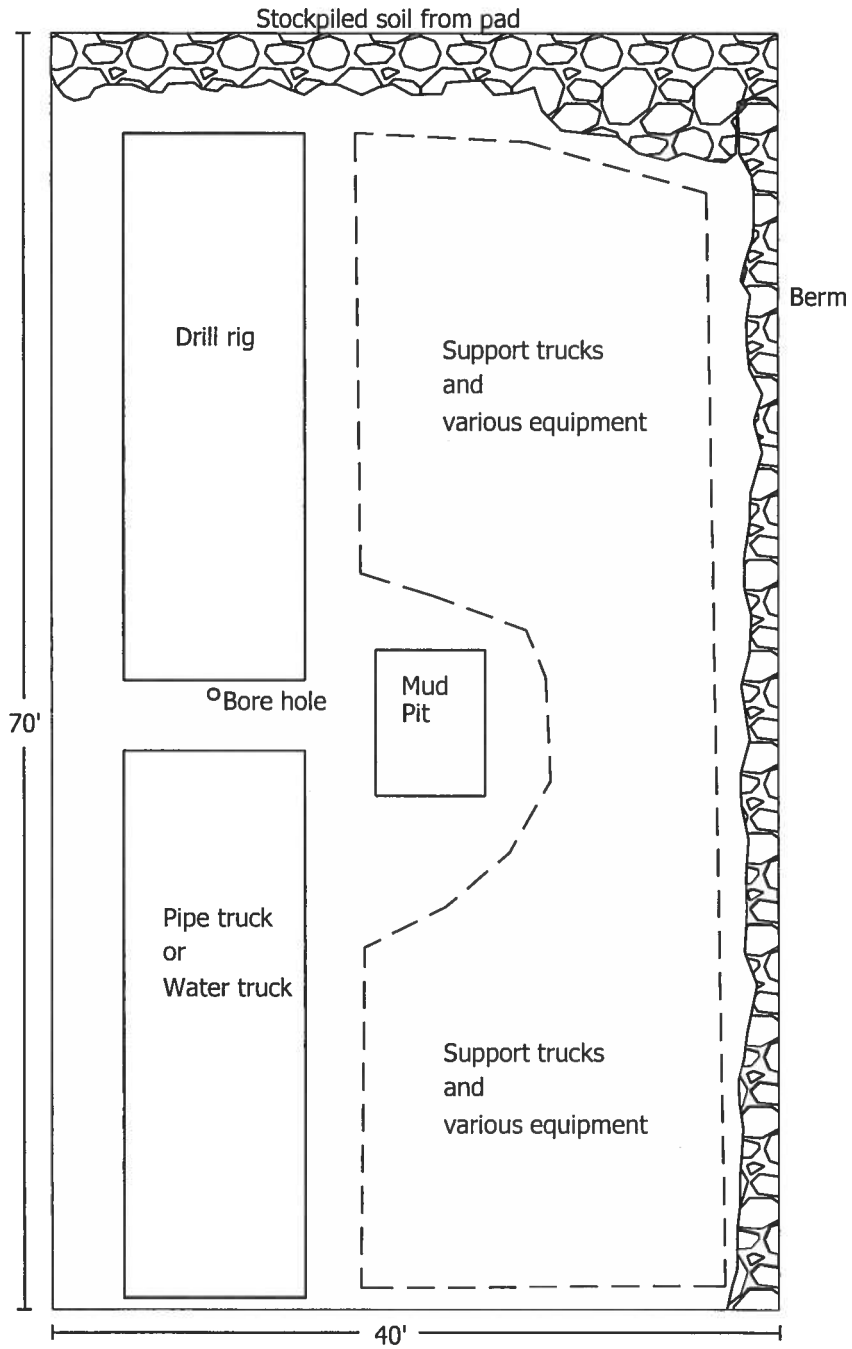


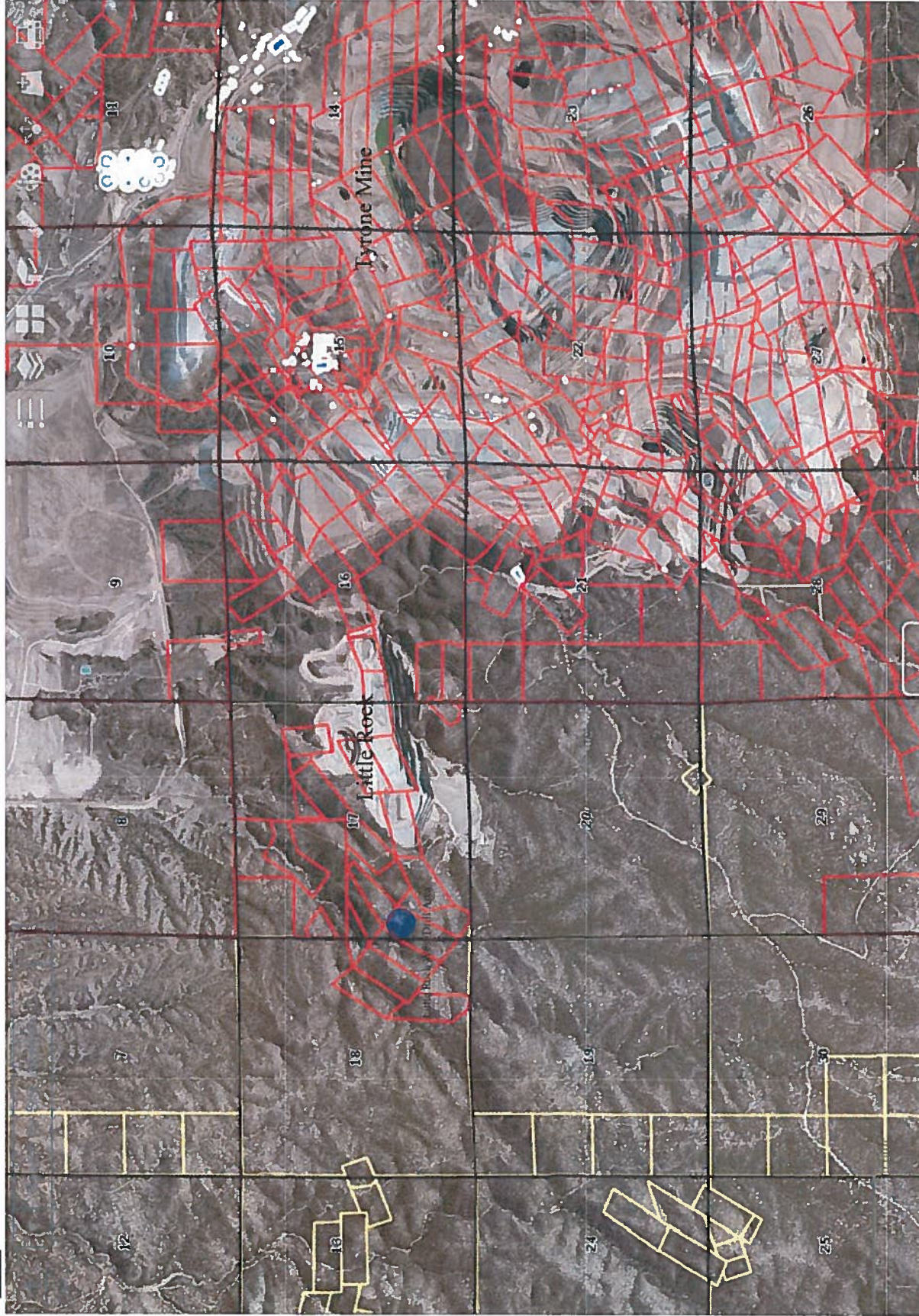
Figure 5: Typical drill pad layout. Drill pads will be constructed for all boreholes in this project



Freeport McMoran Land Dashboard

OneView Portal

PRMS





STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
District 3 Office, Deming, NM

Tom Blaine, P.E.,
State Engineer

321 W. Spruce Street
Deming, New Mexico 88030
PHONE: (575) 546-2851
FAX: (575) 546-2290

September 17, 2018

FILE: GSF-4656

Freeport Mineral Corporation
c/o Ty Bays
P.O. Box 571
Tyrone, NM 88065

RECEIVED
SEP 25 2018

BY:

Greetings:

Enclosed is your copy of Exploratory Well Permit GSF-4656-POD1-EXPL thru GSF-4656-POD4-EXPL, which has been approved.

Your attention is called to the Conditions of Approval under exploratory permit GSF-4656-POD1-EXPL thru GSF-4656-POD4-EXPL, which states as follows:

This application is approved provided it is not exercised to the impairment of any others having existing rights prior to this application for permit for a exploratory well; further provided that all rules and regulations of the State Engineer pertaining to the drilling of shallow wells be complied with; and is not detrimental to the public welfare or contrary to the conservation of water within the state, subject to the following conditions:

1. Wells GSF-4656-POD1 thru GSF-4656-POD4 shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
2. Wells GSF-4656-POD1 thru GSF-4656-POD4 shall be drilled to a depth not to exceed 1,300 feet and shall be constructed with casing not to exceed 6 inch outside diameter.
3. The well driller must file the well records with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record. The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
4. Wells GSF-4656-POD1 thru GSF-4656-POD4 shall be plugged on or before September 30, 2019, unless the applicant has received an approved permit from the State Engineer for additional use.
5. The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement

methods may be acceptable and approved by the state engineer. The well shall be plugged with an office of the state engineer approved sealant for use in the plugging of non-artesian wells. The well driller shall cut the casing off at least four (4) feet below ground surface and fill the open hole with at least two vertical feet of approved sealant. The driller must fill or cover any open annulus with sealant. Once the sealant has cured, the well driller or well owner may cover the seal with soil. A Plugging Report for said well shall be filed with the Office of the State Engineer in a District Office within 30 days of completion of the plugging, but no later than September 30, 2019.

The well authorized by this permit shall be plugged on or before September 30, 2019, unless the applicant has received an approved permit from the State Engineer for additional use.

6. The State Engineer retains jurisdiction over this permit.
7. Pursuant to Section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.
8. Pursuant to Section 72-2-16, NMSA 1978, if you are aggrieved by this decision you may submit a request to this office asking for a hearing to be held. The request must be in writing and must be submitted no later than 30 days after receipt of this permit. Failure to request a hearing by such time will waive your right to request a hearing on this decision. In accordance with Subsection B of 19.25.2.10 NMAC, you will be required to pay a hearing fee when the hearing is announced by the OSE Hearings Unit. Aggrievment of the permit or any of the conditions of approval suspends the permit. **No water may be diverted** under an aggrieved permit until final resolution of the aggrievment with the Office of the State Engineer. Any water diverted while the aggrievment is pending will have to be repaid.
9. Well record shall be filed in the District 3 office on or before September 30, 2019.
10. This permit shall automatically expire on September 30, 2019.

Sincerely,

Lloyd R. Valentine III
District 3 Manager

By: 
Jack Barragan
Water Resource Professional
Gila-San Francisco Basin

JB:jb

cc: State Engineer

File No. GSF-4656

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/>

3-22458.5⁵x4-
20

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): Mineral 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.

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

Plugging Plan of Operations Submitted? Yes No

1. APPLICANT(S)

Name: Freeport-McMoRan Tyrone Mining LLC	Name:
Contact or Agent: check here if Agent <input checked="" type="checkbox"/>	Contact or Agent: check here if Agent <input type="checkbox"/>
Ty BAys	
Mailing Address: P.O. Box 571	Mailing Address:
City: Tyrone	City:
State: NM Zip Code: 88065	State: Zip Code:
Phone: (575) 912-5757 <input checked="" 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):

2018 AUG 30 PM 5:55
STATE ENGINEERS OFFICE
NEW MEXICO

FOR OSE INTERNAL USE Application for Permit, Form WR-07, Rev 11/17/16

File No.: <u>GSF-4656</u>	Tm. No.:	Receipt No.:
Trans Description (optional):		
Sub-Basin: <u>As Ch</u>	PCW/LOG Due Date: <u>9-30-19</u>	

JS

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
P.S.F 4656-POD1	108° 25' 28.38"	32° 39' 0.52"	SW Sec 17. T19S., R.15W.
P.S.F 4656-POD2	108° 25' 25.88"	32° 39' 2.28"	'SW Sec 17. T19S., R.15W.
P.S.F 4656-POD3	108° 25' 23.83"	32° 39' 4.46"	SW Sec 17. T19S., R.15W.
P.S.F-4656-POD4	108° 25' 21.39"	32° 39' 2.27"	SW Sec 17. T19S., R15W.

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 _____

Other description relating well to common landmarks, streets, or other:
 West of Little Rock Mine

Well is on land owned by: Freeport-McMoRan 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): 1300	Outside diameter of well casing (inches): 6 Inches
Driller Name: Layne Christensen	Driller License Number: WD-1728

STATE ENGINEERS OFFICE
 2018 AUG 30 PM 5:56

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

Mineral exploration

FOR USE INTERNAL USE Application for Permit, Form WR-07

File No.:	Trn No.:
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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: <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.</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>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.</p>
<p>Monitoring: <input type="checkbox"/> Include the reason for the monitoring well, and, <input type="checkbox"/> The duration of the planned monitoring</p>	<p><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>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><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>

ACKNOWLEDGEMENT

I, We (name of applicant(s)) Ty Bays for Freeport-McMoran Tyrone 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 17th day of September 20 18, for the State Engineer,

Tom Blaine, P.E. State Engineer

By: [Signature]
 Signature

Lloyd R. Valentine III
 Print

Title: District 3 Manager
 Print

STATE ENGINEER'S OFFICE
 DENVER, NEW MEXICO
 2018 AUG 30 PM 5:56

FOR OSE INTERNAL USE

Application for Permit, Form WR-07

File No.:	Trn No.:
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**ATTACHMENT
STATE ENGINEER CONDITIONS OF APPROVAL**

FILE: GSF-4656
APPLICATION: GSF-4656-POD1-EXPL thru GSF-4656-POD4-EXPL
APPLICANTS: Freeport McMoRan-Tyrone Mining LLC. c/o Ty Bays

1. Wells GSF-4656-POD1 thru GSF-4656-POD4 shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
2. Wells GSF-4656-POD1 thru GSF-4656-POD4 shall be drilled to a depth not to exceed 1,300 feet and shall be constructed with casing not to exceed 6 inch outside diameter.
3. The well driller must file the well records with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record. The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
4. Wells GSF-4656-POD1 thru GSF-4656-POD4 shall be plugged on or before September 30, 2019, unless the applicant has received an approved permit from the State Engineer for additional use.
5. The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable and approved by the state engineer. The well shall be plugged with an office of the state engineer approved sealant for use in the plugging of non-artesian wells. The well driller shall cut the casing off at least four (4) feet below ground surface and fill the open hole with at least two vertical feet of approved sealant. The driller must fill or cover any open annulus with sealant. Once the sealant has cured, the well driller or well owner may cover the seal with soil. A Plugging Report for said well shall be filed with the Office of the State Engineer in a District Office within 30 days of completion of the plugging, but no later than September 30, 2019.

The well authorized by this permit shall be plugged on or before September 30, 2019, unless the applicant has received an approved permit from the State Engineer for additional use.
6. The State Engineer retains jurisdiction over this permit.
7. Pursuant to Section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.
8. Pursuant to Section 72-2-16, NMSA 1978, if you are aggrieved by this decision you may submit a request to this office asking for a hearing to be held. The request must be in writing and must be submitted no later than 30 days after receipt of this permit. Failure to request a hearing by such time will waive your right to request a hearing on this decision. In accordance with Subsection B of 19.25.2.10 NMAC, you will be required to pay a hearing fee when the hearing is announced by the OSE Hearings Unit. Aggrievial of the permit or any of the conditions of approval suspends the

permit. **No water may be diverted** under an aggrieved permit until final resolution of the aggrieval with the Office of the State Engineer. Any water diverted while the aggrieval is pending will have to be repaid.

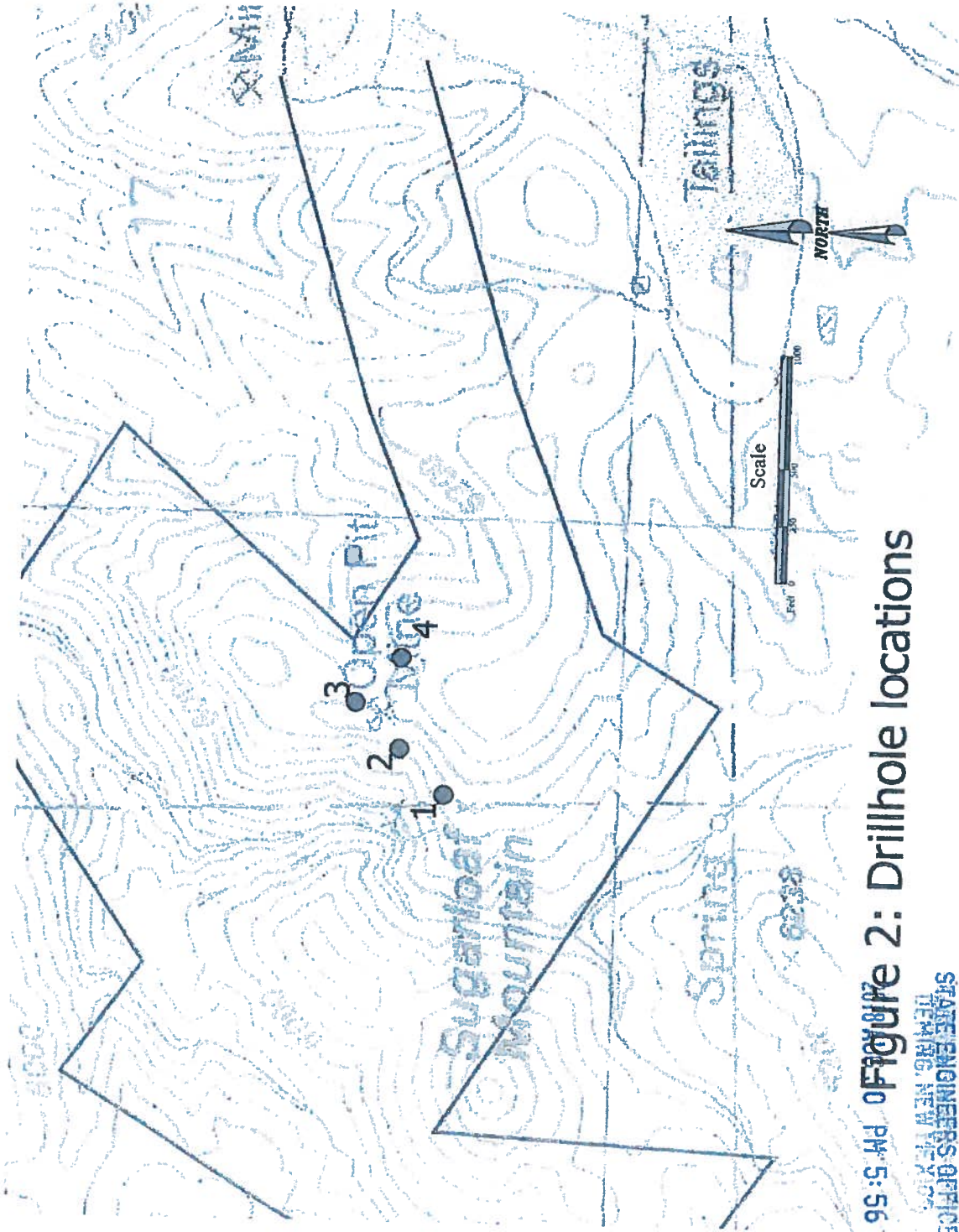
9. Well record shall be filed in the District 3 office on or before September 30, 2019.
10. This permit shall automatically expire on September 30, 2019.

Witness my hand and seal this 17th day of September, 2018.

Tom Blaine, P.E., State Engineer



Lloyd R. Valentine III
District 3 Manager



95-5-W-0 Figure 2: Drillhole locations

STATE ENGINEERS OFFICE
 MEMPHIS, NEW YORK

OFFICE OF THE STATE ENGINEER/INTERSTATE STREAM COMMISSION – DEMING OFFICE

OFFICIAL RECEIPT NUMBER: 3 - 22458 DATE: August 30, 2018 FILE NO.: XXXXXXXXXX

TOTAL: 20.00 RECEIVED: TWENTY & NO/100***** DOLLARS CHECK NO.: money order CASH: _____

PAYOR: Freeport McMoran Tyrone Mining ADDRESS: PO Box 571 CITY: Tyrone STATE: NM

ZIP: 88065 RECEIVED BY: *[Signature]*

INSTRUCTIONS: Indicate the number of actions to the left of the appropriate type of filing. Complete the receipt information. **Original** to payor; **pink** copy to Program Support/ASD; and **yellow** copy for Water Rights. If a mistake is made, void the original and all copies and submit to Program Support/ASD as part of your daily deposit.

A. Ground Water Filing Fees

- 1. Change of Ownership of Water Right \$ 2.00
- 2. Application to Appropriate or Supplement Domestic 72-12-1 Well \$ 125.00
- 3. Application to Repair or Deepen 72-12-1 Well \$ 75.00
- 4. Application for Replacement 72-12-1 Well \$ 75.00
- 5. Application to Change Purpose of Use 72-12-1 Well \$ 75.00
- 6. Application for Stock Well \$ 5.00

B. Surface Water Filing Fees

- 1. Change of Ownership of a Water Right \$ 5.00
- 2. Declaration of Water Right \$ 10.00
- 3. Amended Declaration \$ 25.00
- 4. Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Surface Water \$ 200.00
- 5. Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Surface Water \$ 200.00
- 6. Application to Change Point of Diversion \$ 100.00
- 7. Application to Change Place and/or Purpose of Use \$ 100.00
- 8. Application to Appropriate \$ 25.00
- 9. Notice of Intent to Appropriate \$ 25.00
- 10. Application for Extension of Time \$ 50.00
- 11. Supplemental Well to a Surface Right \$ 100.00
- 12. Return Flow Credit \$ 100.00
- 13. Proof of Completion of Works \$ 25.00
- 14. Proof of Application of Water to Beneficial Use \$ 25.00
- 15. Water Development Plan \$ 100.00
- 16. Declaration of Livestock Water Impoundment \$ 10.00
- 17. Application for Livestock Water Impoundment \$ 10.00

C. Well Driller Fees

- 1. Application for Well Driller's License \$ 50.00
- 2. Application for Renewal of Well Driller's License \$ 50.00
- 3. Application to Amend Well Driller's License \$ 50.00

D. Reproduction of Documents

- _____ @ 0.25¢ \$ _____
- _____ Map(s) \$ _____

E. Certification

\$ _____

F. Other

\$ _____

G. Comments:

- 4. Application for Test, Expl. Observ. Well \$ 5.00
- 15. Application for Extension of Time \$ 25.00
- 16. Proof of Application to Beneficial Use \$ 25.00
- 17. Notice of Intent to Appropriate \$ 25.00

All fees are non-refundable.

STATE OF NEW MEXICO
 ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT **EEE0007268**

Date: 9/11/2017 **OFFICIAL RECEIPT**

Received From: Freeport McMoRan



Five hundred dollars and no/100 Dollars

Center Code	Revenue Code	Amount	Work Order No.
0640	416902	500 ⁰⁰	

Center Code	Revenue Code	Amount	Work Order No.

State Treasurer Deposit Number _____

Total \$ 500⁰⁰

Description: Application Fee
for Permit No. GR080EM
West Little Rock

CR# 0000903645

Signed: [Signature]
 ASD-White Copy / Customer-Yellow Copy / Retained In Book-Pink Copy

FREEPORT-McMoRAN
 Freeport-McMoRan Inc.
 333 North Central Ave
 Phoenix AZ 85004

CHECK NO.
 0000903645

64-1278/611 GA

DATE OF CHECK
 08/30/18

PAY: FIVE HUNDRED AND 00/100 DOLLARS

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

CHECK AMOUNT
 \$500.00

Bank of America, N.A.

[Signature]
 Authorized Signature

⑈0000903645⑈ ⑆061112788⑆ 3299998445⑈