Permit SI061EM

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/MARPApplicationandReportingForms.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

RECEIVED
APR 23 2024
MINING & MINERALS DIVISION

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.

☐ 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: Copper Flat

Nearest Town To Project: Hillsboro, Sierra County

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

Name: Jeff Smith

Address: P.O. Box 4209

Truth or Consequences, NM 87901

Office Phone: (520) 991-4588 Cell Phone:

Fax Number: Email: jsmith50921@msn.com

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

Name: Raymond Irwin

Address: 420 Alvarado Drive NE

Albuquerque, NM 87108

Office Phone: (505) 256-5340 Cell Phone: (505) 217-5677

Fax Number: Email: raymondirwin10@yahoo.com

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.

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 #
☐ U.S. BLM	_____	_____
	_____	
☐ U.S. Forest Service	_____	_____
	_____	
☐ State of NM	_____	_____
	_____	
☒ Private/Corporate Name: THEMac Resources Group	P.O. Box 4209 Tarc, New Mexico 87401	(505) 382-5770
☐ Other Name: _____	_____	_____

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

Name	Address	Phone #
N/A		

Mineral Estate Owner(s):

Name	Address	Phone #
☐ Bureau of Land Management		
☐ US Forest Service		
☐ State of NM		
☒ Claim/Lease Holder	P.O. Box 4209	(480) 286-4204

Name: THE MAC Resources Group — Tor C, New Mexico 87401

Claim Numbers: All claims are owned by THE Mac Resources Group

☐ Claim/Lease Holder		
Name:		
Claim Numbers:		
☐ Other		
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:

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:

Attachment _____

SECTION 3 – MAPS AND PROJECT LOCATION (§302.D.2)

A. Project Location:

Township 15S Range 7W Section S ½ Sec 26

Township 15S Range 7W Section N ½ Sec 35

Township _____ Range _____ Section _____

List the drill hole/exploration name and the GPS coordinates for each site. See Attachment

I.D. Number	Northing / Latitude	Easting / Longitude

I.D. Number	Northing / Latitude	Easting / Longitude

Coordinate system used to collect GPS data points:

- [x] NAD83 Geographic
- [ ] NAD83 UTM Zone 13 (or 12)
- [ ] WGS 1984
- [ ] NAD27 Geographic
- [ ] NAD27 UTM Zone 13 (or 12)
- [ ] Other: _____

Attachment _____ (for listing additional boreholes)

B. Maps (see application form instructions for examples of maps to be included):

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 _____

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 Individual drillpads will be approximately 125' in length by 40' in width.

Attachments _____

C. Provide detailed driving directions to access the site:
Proceed South From Truth or Consequences, NM on I-25 To The Silver City-Hillsboro Exit. Turn Right onto Highway 152 And Proceed West For a distance of 10 miles to its intersection with Gold Dust Road. Turn right onto Gold Dust Road an all weather gravel road and Proceed West-Northwest Approximately 2.0 miles to the project.

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

A. Anticipated exploration: Start Date: Appx May 1, 2024 End Date: August 30, 2024

B. List the mineral(s)/element(s) to be explored for: Copper, molybdenum, gold and Silver

C. Proposed method(s) of exploration:

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

_____# 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

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

Total length of drill stem that can be carried on the rig:_____

Is a support pipe truck anticipated? ☐ Yes ☐ No _____Weight (lbs.)

Weight of support compressor (lbs.):_____Trailer mounted?_____

Anticipated Drilling Contractor:_____ License No._____

☒ **Mud/fluid drilling:**

@ 26 # of holes 600'-900' Depth (ft.) 2 7/8" Diameter (in.)

@ 26 # of drill pads 125 Length (ft.) 40 Width (ft.)

Will drill pads be graded/bladed or overland: ☒ Graded/bladed ☐ Overland
Some drill pads will require grading/leveling, but some will not

Will drill pads need some mechanical leveling (grading/blading): ☒ Yes ☐ No
Some of the drill pads will require mechanical leveling

Will a closed loop system be used or will mud/fluid pits be used? mud pits will be used but as much as possible. The mud will be re circulated.

If mud/fluid pits are proposed:

2/0 # of pits 20 Length (ft.) 8 Width (ft.) 5 Depth (ft.)
NOTE THAT THE PITS WILL BE CONSTRUCTED ON THE drill pads

Anticipated excavating equipment: backhoe

How will excavating equipment be transported to the site (i.e., driven, low-boy, etc.):
THE EXCAVATING EQUIPMENT (small bulldozer and backhoe) will be TRANSPORTED TO THE PROJECT by a low-boy TRAILER AND THAN DRIVEN TO THE INDIVIDUAL drill SITES ON EXISTING roads as much as POSSIBLE

Will mud pits be lined?: ☒ Yes ☐ No

If yes, proposed material to line the mud pits: PLASTIC SHEETING

Approx. Weight of Drill Rig (lbs.) Track mounted drill rig @ 20,000 lbs Number of Axles: N/A

Anticipated Drilling Contractor: _____ License No. _____

☐ **Test pits / exploratory trenches:** N/A

0 # 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:
NONE

TOTAL ACREAGE TO BE DISTURBED DUE TO DRILL PADS = 2.98 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 = -0- acres
(to convert to acres, multiply total square footage of disposal pit by 0.0000229)

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

☒	4x4 Trucks/Vehicles	Quantity:	2-3 4X4 Vehicles
☒	Water Truck	Weight (lbs.):	1- 4WD water truck
☐	Geophysical Truck	Weight (lbs.):	N/A
☒	Pipe Truck (rig support)	Weight (lbs.):	1- pipe truck
☐	Bulldozer	Type:	1- D6 type bulldozer
☒	Backhoe	Type:	1- wheeled backhoe
☐	Trackhoe	Type:	N/A
☒	Scaper/Grader	Type:	1- Grader for repair of existing roads
☒	Trailers	Quantity/Type:	1- pipe trailer
☒	Portable Toilet	Quantity:	1- portable toilet
☐	Other	List:	

F. Roads and Overland Travel:

List of <u>new</u> roads to be constructed for this exploration project:

Description of *NEW* Roads	Length (ft.)	Width (ft.)	Total Acres (length x width x 0.0000229)
75-105 Target (NE¼ Sec 35)	550'	10'	0.12
Copper Flat resource expansion (SW¼ sec 26)	150'	10'	0.03
Northeast Target (SE¼ Sec 26)	900'	10'	0.20
TOTAL ACRES DISTURBED BY NEW ROAD CONSTRUCTION :			0.35 Ac

Describe how new roads will be constructed: New roads will be constructed with a bulldozer. The newly constructed roads will follow topography as much as possible and will be kept out of drainages except where crossings are necessary. The roads will consist of shallow cuts a few inches in depth to remove vegetation and loose rock debris to produce a flat, safe and temporary driving surface.

List for <u>extension or widening of existing</u> roads:

Description of Modification to *EXISTING* Roads	Length (ft.)	Width (ft.)	Total Acres (length x width x 0.0000229)
Northeast Target (SE¼ Sec 26)	900'	10'	0.20
West Extension (SE¼ Sec 26)	500'	10'	0.11
South Extension (NE¼ Sec 35)	500'	10'	0.11
TOTAL ACRES DISTURBED BY ROAD IMPROVEMENTS :			0.42 Ac

Describe how existing roads will be extended or widened: To minimize surface disturbance, overland access or minor repair of existing roads will be relied upon as much as possible. Where existing roads exist and need repair the road will be back dragged by a bulldozer's blade. New road construction will be undertaken to minimize surface disturbance and yet produce a safe, compacted flat driving surface.

List for routes of overland travel:

Description of *OVERLAND TRAVEL* Routes	Length (ft.)	Width (ft.)	Total Acres (length x width x 0.0000229)
75-100 Target (NE1/4 Sec 35) 1250' X 10' = 0.28 Ac			
TOTAL ACRES DISTURBED BY OVERLAND TRAVEL :			0.28

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. In support of this proposed drilling program, the same graveled area that was used in the 2011 and 2012 drilling programs will be used again for a laydown yard and temporary storage of drilling supplies. Drilling personnel and geologists will commute daily to the project so no temporary housing or trailers will be needed on the project.

H. **TOTAL ACREAGE TO BE DISTURBED BY PROJECT =** 4.03 **acres**
(include all disturbed acreage from drill pads, cuttings disposal pit, new roads, improved roads and overland travel routes)

SECTION 5 – CHEMICAL USE (§302.D.4)

A. Check any and all chemicals that will be used for this project.

☒	Drilling Mud (i.e., EZ Mud)	Type/Quantity: As Needed
☒	Diesel Fuel Drill rig & water Truck	Quantity: As Needed
☐	Down-hole Lubricants	Type/Quantity:
☒	Lost Circulation Materials	Type/Quantity: As Needed
☒	Oils/Grease	Quantity: As Needed
☒	Gasoline	Quantity: As Needed
☒	Hydraulic Fluid	Quantity: As Needed
☐	Ethylene Glycol	Quantity:
☒	Cement	Type/Quantity: Neat cement As needed
☒	Water	Source: Company well
☒	Bentonite	Quantity: As Needed
☐	Fertilizer	Type/Quantity:
☐	Other	Type/Quantity:

B. Describe, in detail, a plan for the containment, use and disposal of all chemicals listed above: All chemicals used will be brought to individual drill sites on An As Needed basis. Drilling and water truck will be parked on plastic tarps to minimize leakage of diesel, oil or hydraulic fluid on to the ground.

C. Describe where equipment fueling/refueling will occur: Drilling and water truck will be refueled at individual drill sites on a daily basis. Crew pick ups will be refueled in Torc.

D. Describe how hazardous material spills/leaks will be handled: The only potentially hazardous materials that will be used during this proposed program Are gasoline, diesel, hydraulic fluid and grease. Should any of this material leak on the ground it will be scooped up and placed in A bucket or barrel to be transported off site to A hazardous waste storage 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.): >100' TDS concentration (mg/L): UNKNOWN

Describe the source of this information:

B. Will dewatering activities be conducted: ☐ Yes ☒ No

If yes, please describe:

C. Is groundwater anticipated to be encountered during exploration: ☒ Yes ☐ No
Possibly, but groundwater is fracture controlled

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 _____ (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 (≥ 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 (≥ 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):

☐ 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: Since many of the proposed drill sites are located on flat-gently topography erosion control will only be minimal in most cases

☐ Silt fencing Location: _____

☒ Straw waddles Location: down slope of mud pits as needed

☒ Straw bales Location: down slope of mud pits as needed

☐ Ditches/swales Location: _____

☒ Berms/dikes/dams Location: As needed on steeper topography

☐ 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: T- Posts supporting plastic Fencing

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

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: Berms on Newly constructed drill access roads and drill sites will be pulled Toward the out side of the subject excavation using a backhoe or bulldozer and subsequently sloped To the original contour as much as possible.

Describe how the reclamation of portals, adits, drilling fluid/mud and/or waste pits, shafts, ponds, roads and other disturbances will be performed: There are no portals, adits, waste pits or shafts to be reclaimed in this proposed program. Fenced mud pits containing drill cuttings will be allowed to dry (water to evaporate) and subsequently back filled and leveled to original topography and then seeded with the appropriate BLM recommended seed mixtures.

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)

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:

Mulch Use:

☐ Certified weed-free straw mulch will be placed over areas that have been tilled/disced 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.I.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: _____

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 : _____

Financial Institution: _____

SECTION 9 – CERTIFICATION REQUIREMENT (§302.I.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: Raymond Irwin For THEMac

Name (type or print): Raymond Irwin

Title/Position: Geologic Consultant

Date: 4/23/2024

Minimal Impact Exploration Operation- Permit Application

Page 7 Attachment listing Proposed Core Holes at Copper Flat

The 2024 drilling program for the Copper Flat Project consists of four parts designed to evaluate four distinct targets. The four target areas are on either patented or unpatented mining claims owned by THEMAC Resources Group located in the S1/2 Sec 26 and the N1/2 Sec 35, T16S, R7W. These proposed holes which may be drilled in different drilling campaigns are listed below with approximate NAD 83 coordinates.

Northeast Target:

The Northeast target (shown in green) is located entirely on a patented mining claims (Old Mac and 83) in the SE1/4 Sec 26. The proposed hole summary is as follows:

Site #	Sec	TWP	RGE	Location	North	East	Inc.	TD
NE-A	26	15S	7W	SE of 78-14	3651022	263565	90	750'
NE-B	26	15S	7W	NE of N Shaft	3651082	263638	90	750'
NE-C	26	15S	7W	ENE of C-19	3651157	263635	90	750'
NE-E	26	15S	7W	N of 77-3	3650961	263527	90	750'
NE-F	26	15S	7W	S of 76-22	3650913	263586	90	750'

75-100 Target:

The 75-100 target (shown in red) is located entirely on patented claims (Copper King and Union Leader) in the NE1/4 Sec 35. The proposed hole summary is as follows:

Site #	Sec	TWP	RGE	Location	North	East	Inc.	TD
S-B	35	15S	7W	N of 75-100	3650376	263692	90	650'
S-C	35	15S	7W	S of 75-100	3650319	263695	90	650'
S-D	35	15S	7W	At 76-17	3650375	263763	90	650'
S-E	35	15S	7W	S of 76-17	3650338	263764	90	650'
S-F	35	15S	7W	N of 76-17	3650411	263770	90	650'
S-G	35	15S	7W	N of 78-5	3650348	263622	90	650'
S-H	35	15S	7W	S of 78-5	3650304	263625	90	650'
S-I	35	15S	7W	S of 75-87	3650306	263560	90	650'
S-J	35	15S	7W	SW of 75-87	3650295	263473	90	750'
S-K	35	15S	7W	S of GWQ 11-24	3650315	263412	90	750'

75-105 Target:

The 75-105 target (shown in blue) is located on unpatented mining claim MS 15 in the NE1/4 Sec 35. The proposed hole summary is as follows:

Site #	Sec	TWP	RGE	Location	North	East	Inc.	TD
75-105 o/s	35	15S	7W	At 75-105	3650591	264040	90	750'
75-105 S o/s	35	15S	7W	S of 75-105	3650496	264024	90	750'
75-105 E o/s	35	15S	7W	E of 75-105	3650562	264068	90	750'

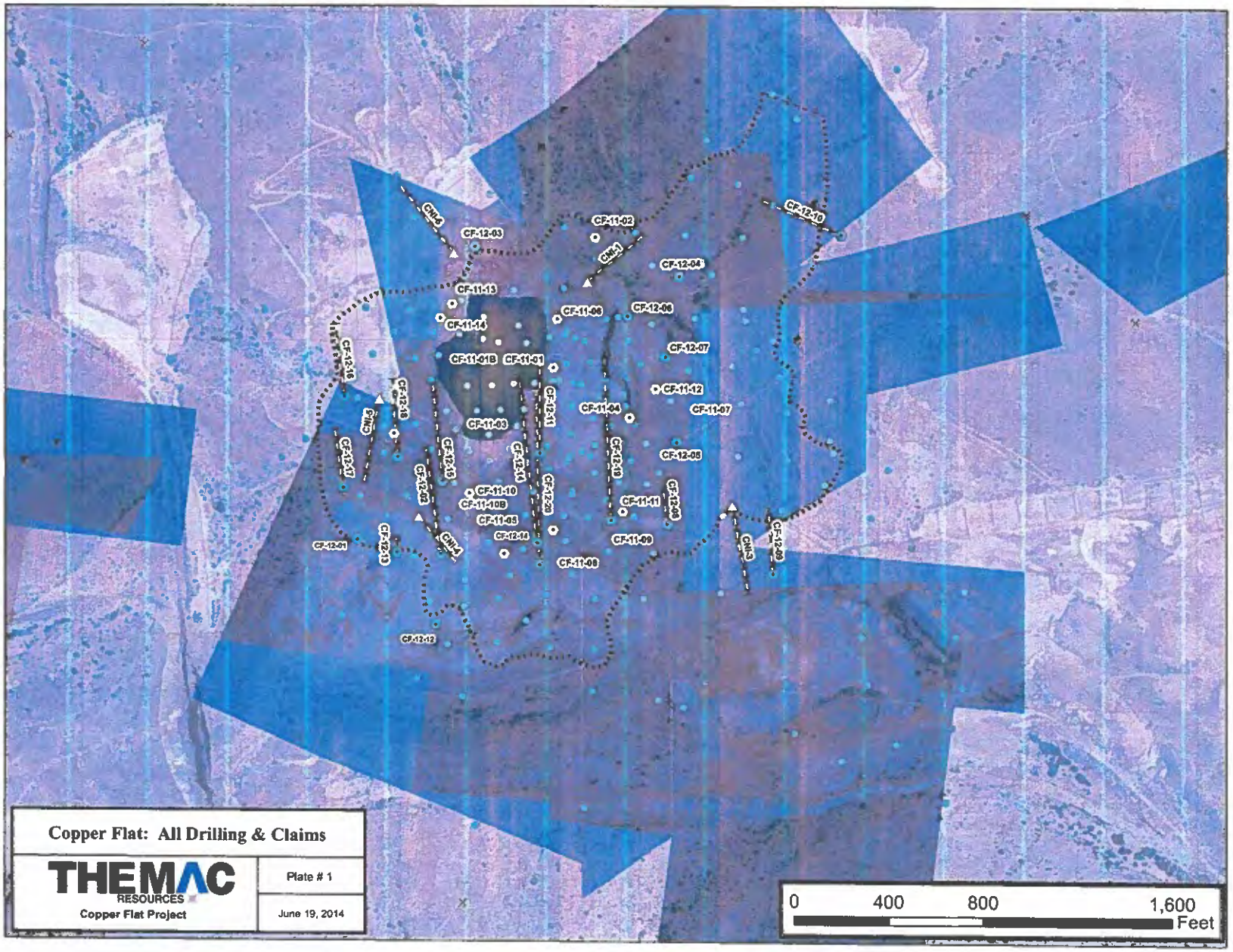
75-105 W o/s	35	15S	7W	W of 75-105	3650546	264008	90	750'

Copper Flat Resource Expansion:

The Copper Flat Resource Expansion (shown in yellow) is located on the unpatented claim Gluck Auf located in the SW ¼ Sec 26 and the patented claim Allhutten located in the SW ¼ Sec 26 and the patented claims Craze Martin and Copenhagen located in the NW ¼ Sec 35. The proposed hole summary is as follows:

Site #	Sec	TWP	RGE	Location	North	East	Inc.	TD
C-13 S o/s	26	15S	7W	C-13 S o/s	3650861	262909	90	800'
I-24 N o/s	26	15S	7W	I-24 N o/s	3650972	263050	90	1,000'
IDC 7 SW o/s	35	15S	7W	SW of IDC-7	3650364	263294	90	750'
C-10 SE o/s	35	15S	7W	SE of C-10	3650349	263197	90	750'

Permit SIO61EM



Legend

Drilling

- Holes Drilled 2012
- Holes Drilled 2011
- Holes Drilled Before 2011
- Geotechnical Holes (Drilled 2012)
- 2012 Drill Traces
- 2011 Drill Traces

Workings

- Adit
- Prospect
- Shaft

Mineralization

- Approximate loacation of significant Cu-Mo-Ag-Au mineralization
- Open to extension of mineralization

Claims

- Patented Claims
- Unpatented Claims

1 inch = 400 feet

Coordinate System: NAD_1983_UTM_Zone_13N
Projection: Transverse_Mercator
False_Easting: 500000.000000
False_Northing: 0.000000
Central_Meridian: -105.000000
Scale_Factor: 0.999600
Latitude_Of_Origin: 0.000000
Linear Unit: Meter

N
W E
S

Copper Flat: All Drilling & Claims

THEMAC RESOURCES
Copper Flat Project

Plate # 1

June 19, 2014

Legend

2012 Drilling

- Depth
- Extension
- Infill
- 2012 Surface Traces

Major Structures

- Approximately Located
- Inferred Location
- Fault Zones

- Drillholes (Historic through 2010)
- Proposed Holes
- CNI (Geotechnical) Holes
- Quartz Monzonite Breccia
- Approximate Location of Significant Cu-Mo-Au-Ag Mineralization
- Significant Cu-Mo-Au-Ag Mineralization
- Expansion of Mineralization From 2012 Drilling

Notes:
1. Base map is from Cooper Aerial 2011.
2. Shown are the surveyed locations of the 2012 holes and the permitted locations for the CNI and remaining drill holes.

1 inch = 200 feet

0 200 400 800 Feet

Coordinate System: NAD 1983 UTM Zone 13N
Projection: Transverse Mercator
Datum: North American 1983
False Easting: 500,000.0000
False Northing: 0.0000
Central Meridian: -105.0000
Scale Factor: 0.9996
Latitude Of Origin: 0.0000
Units: Meters

N W E S

2012 Drilling Summary

THEMAC RESOURCES
Copper Flat Project

Figure 1

September 7, 2012

THEMAC RESOURCES

February 17, 2024

Mr. Joseph Navarro, Environmental Protection Specialist
Bureau of Land Management
Las Cruces District Office
1800 Marquess Street
Las Cruces, NM 88005

RE: Copper Flat Project, Sierra County, NM- 2024 Exploration Notice of Intent to Conduct Exploration Drilling

Dear Mr. Navarro:

As you are aware, New Mexico Copper Corporation (a wholly owned subsidiary of THEMAC Resources Group) is the owner of an advanced stage copper exploration and development project located in Sierra County, NM. Since 2013, New Mexico Copper Corporation has been focusing its attention on activities related to its mine permitting efforts and securing additional water rights for the planned mining operation. Management has recently decided to potentially undertake a new phase of core drilling designed to expand and better define the existing copper resource, which is located in the S1/2 Sec 26 and the N1/2 Sec 35, T15S, R7W. As a result of this decision, this letter is to serve as the 2024 Exploration Notice of Intent as required under 43 CFR 3809 Regulations.

Claimant Information:

The Copper Flat project that occupies parts of TWPS 15 and 16S, RGES 6 and 7W, consists of approximately 5,100 acres of wholly owned patented and unpatented lode claims, patented and unpatented placer claims and fee acreage. As stated above, the project is owned by New Mexico Copper Corporation a wholly owned subsidiary of THEMAC Resources Group. The local address for New Mexico Copper/THEMAC Resources is P.O. Box 4209, Truth or Consequences, NM 87901. Mr. Jeff Smith, the current Executive Vice President of Development and Operations, can be reached at this address or by phone at (520) 991-4588.

Operator Information:

The operator of this proposed exploration/development drilling program is New Mexico Copper Corporation the wholly owned subsidiary of THEMAC Resources Group, whose contact information appears in the previous section of this Notice.

Previous Disturbance:

As previously stated, and as shown on the accompanying aerial photograph on which the proposed drill holes are plotted, the entire planned drilling program falls within the footprint of Quintana Minerals former open pit mine and mill facilities and related roads and waste dumps. The proposed drilling will use existing roads within and adjacent to these disturbed areas as much as possible to minimize further

surface disturbance. Ideally, a track mounted core drill will be used to reduce the need for road repairs and minimize the size of drill sites and new access roads. As stated elsewhere in this Notice only five of the 23 proposed holes are located on unpatented lode claims owned by THEMAC Resources.

Mining Claim Information:

This notice covers the potential drilling of as many as 23-core holes located in the S1/2 Sec 26, T15S, R7W, and the N1/2 Sec. 35, T15S, R7W. Of these planned holes, only five holes are located on unpatented lode claims. The specific unpatented lode claims on which the five holes may be drilled consist of MS 15 (NMMC # 60106), which is in the SE1/4 Sec 26 and the NE1/4 Sec 35, and Gluck Auf (NMMC # 60058), which is in the SW1/4 Sec 26. For completeness, a tabulated list of all the proposed core holes is included as part of this Notice.

Proposed Operations:

As previously stated, the proposed 2024 exploration/development drilling program consists of as many as 23 core holes with planned depths ranging from 600'-900' that may be drilled in two sequential phases. If the drilling equipment is available at the time, a track-mounted drill supported by 4-WD water truck will be used to conduct the drilling to help minimize surface disturbance. Access to the project will be via Gold Dust Road, which is an all-weather gravel road and to areas of planned drilling the use of a network of existing roads through the former mill site located in Sec 36, T15S, R7W and the former mine site in the N1/2 Sec 35, T15S, R7W and the S1/2 Sec 26, T15S, R7W. These existing roads will require minimal repair. Due to gentle topography, access to many of the proposed drill sites will be by overland means with the only surface disturbance needed being the leveling of individual drill sites and the excavation of mud pits on the drill sites. In the case of the four drill sites located in the SE1/4 Sec 26 and the NE1/4 Sec 35, approximately 550' of new road will need to be constructed over a previously disturbed area that was partially reclaimed in the 1980's. This construction will consist of grading a road approximately 10' in width to the individual drill sites. Each drill site is anticipated to be approximately 125' in length and 40' in width with the required mud pit measuring approximately 20' in length and 8' in width constructed by a backhoe on the drill pad.

The proposed drill site located in the SW1/4 Sec 26, will be accessed by an existing mine road, which will require grading, and the construction of approximately 150' of new road. In the case of the new road, the grading will be to primarily remove mesquite brush since the roadway and drill site are both nearly level. Drill site dimensions will again be about 125' in length with a width of approximately 40'. The accompanying mud pit will be located on the drill pad and will measure approximately 20' in length by 8' in width. As above, it is planned to place temporary fencing around the mud pits while drilling is in progress, and they will remain in place until reclamation is initiated. Total surface disturbance related to new road construction and the construction of five drill pads with accompanying mud pits is approximately 0.30 acres. All planned core holes will be abandoned and plugged according to Office of State Engineer regulations. During this program, it will not be necessary to cross any intermittent streams or make any significant cuts to build the access roads and drill sites. Preliminary reclamation will be undertaken as soon as ground conditions will allow the reclamation to be initiated and the contents of sand and cuttings in the mud pits dry enough to be back filled and leveled. As part of the reclamation process, new drill access roads and drill pads will be planted with a seed mixture provided by the BLM.

Thank you for your time in reviewing this 2024 Exploration Notice of Intent.

Best Regards,

Raymond Irwin, CPG
Geologic Consultant
New Mexico Copper Corporation
(a wholly owned subsidiary of THEMAC Resources Group)
P.O. Box 4209
Truth or Consequences, NM 87901

Email: raymondirwin10@yahoo.com

Minimal Impact Exploration Operation- Permit Application

Page 7 Attachment listing Proposed Core Holes at Copper Flat

The 2024 drilling program for the Copper Flat Project consists of four parts designed to evaluate four distinct targets. The four target areas are on either patented or unpatented mining claims owned by THEMAC Resources Group located in the S1/2 Sec 26 and the N1/2 Sec 35, T16S, R7W. These proposed holes which may be drilled in different drilling campaigns are listed below with approximate NAD 83 coordinates.

Northeast Target:

The Northeast target (shown in green) is located entirely on a patented mining claims (Old Mac and 83) in the SE1/4 Sec 26. The proposed hole summary is as follows:

Site #	Sec	TWP	RGE	Location	North	East	Inc.	TD
NE-A	26	15S	7W	SE of 78-14	3651022	263565	90	750'
NE-B	26	15S	7W	NE of N Shaft	3651082	263638	90	750'
NE-C	26	15S	7W	ENE of C-19	3651157	263635	90	750'
NE-E	26	15S	7W	N of 77-3	3650961	263527	90	750'
NE-F	26	15S	7W	S of 76-22	3650913	263586	90	750'

75-100 Target:

The 75-100 target (shown in red) is located entirely on patented claims (Copper King and Union Leader) in the NE1/4 Sec 35. The proposed hole summary is as follows:

Site #	Sec	TWP	RGE	Location	North	East	Inc.	TD
S-B	35	15S	7W	N of 75-100	3650376	263692	90	650'
S-C	35	15S	7W	S of 75-100	3650319	263695	90	650'
S-D	35	15S	7W	At 76-17	3650375	263763	90	650'
S-E	35	15S	7W	S of 76-17	3650338	263764	90	650'
S-F	35	15S	7W	N of 76-17	3650411	263770	90	650'
S-G	35	15S	7W	N of 78-5	3650348	263622	90	650'
S-H	35	15S	7W	S of 78-5	3650304	263625	90	650'
S-I	35	15S	7W	S of 75-87	3650306	263560	90	650'
S-J	35	15S	7W	SW of 75-87	3650295	263473	90	750'
S-K	35	15S	7W	S of GWQ 11-24	3650315	263412	90	750'

75-105 Target:

The 75-105 target (shown in blue) is located on unpatented mining claim MS 15 in the NE1/4 Sec 35. The proposed hole summary is as follows:

Site #	Sec	TWP	RGE	Location	North	East	Inc.	TD
75-105 o/s	35	15S	7W	At 75-105	3650591	264040	90	750'
75-105 S o/s	35	15S	7W	S of 75-105	3650496	264024	90	750'
75-105 E o/s	35	15S	7W	E of 75-105	3650562	264068	90	750'

75-105 W o/s	35	15S	7W	W of 75-105	3650546	264008	90	750'

Copper Flat Resource Expansion:

The Copper Flat Resource Expansion (shown in yellow) is located on the unpatented claim Gluck Auf located in the SW ¼ Sec 26 and the patented claim Allhutten located in the SW ¼ Sec 26 and the patented claims Craze Martin and Copenhagen located in the NW ¼ Sec 35. The proposed hole summary is as follows:

Site #	Sec	TWP	RGE	Location	North	East	Inc.	TD
C-13 S o/s	26	15S	7W	C-13 S o/s	3650861	262909	90	800'
I-24 N o/s	26	15S	7W	I-24 N o/s	3650972	263050	90	1,000'
IDC 7 SW o/s	35	15S	7W	SW of IDC-7	3650364	263294	90	750'
C-10 SE o/s	35	15S	7W	SE of C-10	3650349	263197	90	750'

Phone: (575) 524-6161
Fax: (575) 524-6160

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

Trn Nbr: 756772
File Nbr: LRG 18640

Mar. 05, 2024

THE MAC RESOURCES GROUP
RAYMOND IRWIN, CPG
420 ALVARADO DRIVE NE
ALBUQUERQUE, NM 87108

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

* If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.
* If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.
* The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.
* This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely,

Cheryl Thacker
Water Resource Manager
(575)524-6161

Enclosure
explore

File No. LRG-18640

4-26390 SG

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:	☐ Pollution Control And/Or Recovery	☐ Ground Source Heat Pump
☐ Exploratory Well*(Pump test)	☐ Construction Site/Public Works Dewatering	☒ Other(Describe): Minerals Exploration
☐ Monitoring Well	☐ 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.

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

Plugging Plan of Operations Submitted? ☒ Yes ☐ No

1. APPLICANT(S)

Name: THE Mac Resources Group	Name: THE Mac Resources Group
Contact or Agent: Raymond Irwin — check here if Agent ☒	Contact or Agent: Jeff Smith — check here if Agent ☒
Mailing Address: 420 Alvarado Drive NE	Mailing Address: P.O. Box 4209
City: Albuquerque	City: Truth or Consequences
State: NM Zip Code: 87108	State: NM Zip Code: 87901
Phone: ☒ Home ☐ Cell	Phone: ☒ Home ☐ Cell
Phone (Work): (505) 256-5340	Phone (Work): (520) 991-4588
E-mail (optional): raymondirwin10@yahoo.com	E-mail (optional): jsmith50921@msn.com

FOR OSE INTERNAL USE	Application for Permit, Form WR-07, Rev 07/12/22	
File No.: LRG-18640	Trn. No.: 756772	Receipt No.:
Trans Description (optional): LRG-18640-POD1-26		
Sub-Basin: LRO	PCW/LOG Due Date: 3-5-2025	

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)
☐ NM West Zone
☐ NM East Zone
☐ NM Central Zone

☒ UTM (NAD83) (Meters)
☐ Zone 12N
☐ Zone 13N

☐ Lat/Long (WGS84) (to the nearest 1/10th of second)

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
See ATTachmeNT			

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** 26

Other description relating well to common landmarks, streets, or other: S ½ Sec 26 AND N ½ Sec 35, T15S, R 7W

Well is on land owned by: THEMAC Resources Group (patented) or BLM (unpatented)

Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. **Attached?** ☐ Yes ☐ No
If yes, how many 26

Approximate depth of well (feet): 650'- 900'	Outside diameter of well casing (inches): 3"
Driller Name: TBD	Driller License Number: TBD

3. **ADDITIONAL STATEMENTS OR EXPLANATIONS**

FOR OSE INTERNAL USE — Application for Permit, Form WR-07 Version 07/12/22

File No.: LRG-18640	Trn No.: 756772

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:

Exploratory:	**Pollution Control and/or Recovery:**	**Construction De-Watering:**	**Mine De-Watering:**
Is proposed well a future public water supply well? ☐ Yes ☒ NO If Yes, an application must be filed with NMED-DWB, concurrently. ☐ Include a description of the requested pump test if applicable.	☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for the pollution control or recovery operation. ☐ The estimated maximum period of time for completion of the operation. ☐ The annual diversion amount. ☐ The annual consumptive use amount. ☐ The maximum amount of water to be diverted and injected for the duration of the operation. ☐ The method and place of discharge. ☐ The method of measurement of water produced and discharged. ☐ The source of water to be injected. ☐ The method of measurement of water injected. ☐ The characteristics of the aquifer. ☐ The method of determining the resulting annual consumptive use of water and depletion from any related stream system. ☐ Proof of any permit required from the New Mexico Environment Department. ☐ 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.	☐ Include a description of the proposed dewatering operation, ☐ The estimated duration of the operation, ☐ The maximum amount of water to be diverted, ☐ A description of the need for the dewatering operation, and, ☐ A description of how the diverted water will be disposed of.	☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for mine dewatering. ☐ The estimated maximum period of time for completion of the operation. ☐ The source(s) of the water to be diverted. ☐ The geohydrologic characteristics of the aquifer(s). ☐ The maximum amount of water to be diverted per annum. ☐ The maximum amount of water to be diverted for the duration of the operation. ☐ The quality of the water. ☐ The method of measurement of water diverted. ☐ The recharge of water to the aquifer. ☐ Description of the estimated area of hydrologic effect of the project. ☐ The method and place of discharge. ☐ An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. ☐ A description of the methods employed to estimate effects on surface water rights and underground water rights. ☐ Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.
Monitoring ☐ The reason and duration of the monitoring is required.		**Ground Source Heat Pump:** ☐ Include a description of the geothermal heat exchange project, ☐ The number of boreholes for the completed project and required depths. ☐ The time frame for constructing the geothermal heat exchange project, and, ☐ The duration of the project. ☐ Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.	

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Raymond E Irwin, CPG
Print Name(s)

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

Raymond E. Irwin
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 5th day of March 20 24, for the State Engineer,

Mike A. Hamman, P.E, STATE ENGINEER

BY Cheryl Thacker
Water Resource Manager

_____, State Engineer

_____ Print

STATE OF NEW MEXICO STATE ENGINEER

FOR OSE INTERNAL USE

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

File No.: RG-18610	Trn No.: 756772

Minimal Impact Exploration Operation- Permit Application

Page 7 Attachment listing Proposed Core Holes at Copper Flat

The 2024 drilling program for the Copper Flat Project consists of four parts designed to evaluate four distinct targets. The four target areas are on either patented or unpatented claims located in the S1/2 Sec 26 and the N1/2 Sec 35, T16S, R7W. These proposed holes which may be drilled in different drilling campaigns are listed below with approximate NAD 83 coordinates.

Northeast Target:

The Northeast target is located entirely on a patented mining claims (Old Mac and 83) in the SE1/4 Sec 26. The proposed hole summary is as follows: Sec. 26, T-15S, R07W

	Site #	Location	North	East	TD	
POD 1	NE-A	NE of C-12	3651045	263295	750'	32°58'19.6"N 107°31'57.9"W
POD 2	NE-B	SE of C-19	3651115	263550	750'	32°58'22.2"N 107°31'48.2"W
POD 3	NE-C	ENE of C-19	3651165	263630	750'	32°58'23.8"N 107°31'45.1"W
POD 4	NE-D	SE of C-19	3651090	263635	750'	32°58'21.4"N 107°31'44.9"W
POD 5	NE-E	SW of 76-22	3650970	263525	750'	32°58'17.4"N 107°31'49°W
POD 6	NE-F	SE of 76-22	3650900	263590	750'	32°58'15.2"N 107°31'46.4"W

75-100 Target:

The 75-100 target is located entirely on patented claims (Copper King and Union Leader) in the NE1/4 Sec 35. The proposed hole summary is as follows: Sec. 35, T-15S, R07W

	Site #	Location	North	East	TD	
POD 7	S-A	E of I-7	3650410	263235	750'	32°57'59"N 107°31'60"W
POD 8	S-B	N of 75-100	3650370	263670	600'	32°57'58"N 107°31'42.8"W
POD 9	S-C	S of 75-100	3650315	263690	600'	32°57'56.3"N 107°31'42.0"W
POD 10	S-D	At 76-17	3650360	263765	600'	32°57'57.8"N 107°31'39.2"W
POD 11	S-E	S of 76-17	3650325	263765	600'	32°57'56.7"N 107°31'39.1"W
POD 12	S-F	N of 76-17	3650395	263770	600'	32°57'59"N 107°31'39"W
POD 13	S-G	N of 78-5	3650350	263620	600'	32°57'57.4"N 107°31'44.7"W
POD 14	S-H	S of 78-5	3650300	263620	600'	32°57'55.7"N 107°31'44.7"W
POD 15	S-I	S of 75-87	3650310	263560	600'	32°57'56"N 107°31'47"W
POD 16	S-J	W of 75-87	3650345	263475	600'	32°57'57.1"N 107°31'50.3"W
POD 17	S-K	SW of 75-87	3650295	263460	600'	32°57'55.4"N 107°31'50.9"W

75-105 Target:

The 75-105 target is located on unpatented mining claim MS 15 in the NE1/4 Sec 35. The proposed hole summary is as follows: Sec. 35, T-15S, R07W

	Site #	Location	North	East	TD	
POD 18	75-105 o/s	At 75-105	3650600	264040	750'	32°58"5.8"N 107°31'28.8"N
POD 19	75-105 N o/s	N 75-105	3650661	264040	750'	32°58'7.8"N 107°31'28.9"W

POD 20	75-105 S o/s	S of 75-105	3650540	264040	750'	32°58'3.8"N 107°31'28.8"W
POD 21	75-105 E o/s	E of 75-105	3650600	264085	750'	32°58'5.8"N 107°31'27.1"W
POD 22	75-105 W o/s	W of 75-105	3650600	264000	750'	32°58'5.8"N 107°31'30.4"W

Copper Flat Resource Expansion:

The Copper Flat Resource Expansion is located on the unpatented claim Gluck Auf located in the SW ¼ Sec 26 and the patented claim Allhutten located in the SW ¼ Sec 26 and the patented claims Craze Martin and Coppenhagen located in the NW ¼ Sec 35. The proposed hole summary is as follows:

Sec.

	Site #	Location	North	East	TD	
POD 23	75-76 W o/s	W of 75-76	3650865	262915	800'	32°58'5.8"N 107°31'30.4"W
POD 24	CF 12-03 W o/s	N of I-5	3651000	263115	900'	32°58'18"N 107°32'4.9"W
POD 25	IDC-7 W o/s	W of IDC-7	3650390	263235	750'	32°57'58.3"N 107°31'59.6"W
POD 26	IDC-7 SW o/s	S of IDC-7	3650365	263295	750'	32°57'57.6"N 107°31'57.3"W

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

17-4 No water shall be appropriated and beneficially used under this permit.

17-6 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.

17-7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.

17-B The well 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.

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

17-C The well driller must file the well record 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.

17-Q The State Engineer retains jurisdiction over this permit.

17-R 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.

LOG The Point of Diversion LRG 18640 POD1 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD10 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD11 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD12 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD13 must be completed and the Well Log filed on or before 03/05/2025.

SPECIFIC CONDITIONS OF APPROVAL (Continued)

LOG The Point of Diversion LRG 18640 POD14 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD15 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD16 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD17 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD18 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD19 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD2 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD20 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD21 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD22 must be completed and the Well Log filed on or before 03/05/2025.

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

LOG The Point of Diversion LRG 18640 POD23 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD24 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD25 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD26 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD3 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD4 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD5 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD6 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD7 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD8 must be completed and the Well Log filed on or before 03/05/2025.

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

LOG The Point of Diversion LRG 18640 POD9 must be completed and the Well Log filed on or before 03/05/2025.

ACTION OF STATE ENGINEER

Notice of Intention Rcvd: Date Rcvd. Corrected:
Formal Application Rcvd: 02/27/2024 Pub. of Notice Ordered:
Date Returned - Correction: Affidavit of Pub. Filed:

This application is approved 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 of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 05 day of Mar A.D., 2024

Mike A. Hamman, P.E., State Engineer

By: Cheryl S. Thacker
Cheryl Thacker

STATE OF NEW MEXICO STATE ENGINEER

Trn Desc: LRG 18640 POD1-26

File Number: LRG 18640
Trn Number: 756772

OFFICE OF THE STATE ENGINEER/INTERSTATE STREAM COMMISSION – LAS CRUCES OFFICE

OFFICIAL RECEIPT NUMBER: 4 - 26390 DATE: 2-27-24 FILE NO.: _____

TOTAL: $130.00 RECEIVED: One Hundred & Thirty DOLLARS ☐ CASH: ☑ CHECK NO: 4467

PAYOR: Raymond Irwin ADDRESS: 420 Alvarado Dr SE CITY: Albuquerque

STATE: NM ZIP: 87108 RECEIVED BY: S. Garay

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/Temp. Use	$ 5.00
___	7. Application to Appropriate Irrigation, Municipal, or Commercial Use	$ 25.00
___	8. Declaration of Water Right	$ 1.00
___	9. Application for Supplemental Non 72-12-1 Well	$ 25.00
___	10. Application to Change Place or Purpose of Use Non 72-12-1 Well	$ 25.00
___	11. Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Ground Water	$ 50.00
___	12. Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Ground Water	$ 50.00
___	13. Application to Change Point of Diversion of Non 72-12-1 Well	$ 25.00
___	14. Application to Repair or Deepen Non 72-12-1 Well	$ 5.00
26	15. Application for Test, Expl. Observ. Well	$ 5.00
___	16. Application for Extension of Time	$ 25.00
___	17. Proof of Application to Beneficial Use	$ 25.00
___	18. Notice of Intent to Appropriate	$ 25.00

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

D. Reproduction of Documents

___ @ 0.25¢ $_____

___ Map(s) $_____

E. Certification $_____

F. *Credit Card Convenience Fee $_____

G. Other_____ $_____

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

All fees are non-refundable.

Mike A. Hamman, P.E.
State Engineer

Las Cruces Office- District 4
1680 HICKORY LOOP, SUITE J
LAS CRUCES, NM 88005

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

March 5, 2024

File No. LRG-18640

THEMAC Resources Group
Raymond Irwin, CPG
420 Alvarado Drive NE
Albuquerque, NM 87108

RE: Plugging Plan Approval for wells LRG-18640 POD1 thru LRG-18640 POD26

Greetings:

Enclosed is your copy of the Well Plugging Plan of Operations for wells LRG-18640 POD1 thru LRG-18640 POD26, approved subject to the attached conditions. You are responsible for submitting a properly completed Plugging Record to the office within thirty (30) days after plugging is completed. The Plugging record is available at:

http://www.ose.state.nm.us/STST/Forms/WD-11%20Plugging%20Record_2009-09-08_final.pdf

Sincerely,

Cheryl S. Thacker
Water Resources Manager
WRAP, District IV

Encl (2): Well Plugging Plan of Operations and Conditions of Approval

WELL PLUGGING PLAN OF OPERATIONS

NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/ egmn/ if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email nmbg-waterlevels@nmt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

I. FILING FEE: There is no filing fee for this form.

II. GENERAL / WELL OWNERSHIP: ☒ Check here if proposing one plan for multiple monitoring wells on the same site and attaching WD-08m

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: _____

Name of well owner: THEMAC Resources Group

Mailing address: P.O. BOX 4209 County: Sierra

City: Truth or Consequences State: NM Zip code: 87901

Phone number: (520) 991-4588 E-mail: jsmith50921@msn.com or raymondirwin10@yahoo.com

III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: TBD

New Mexico Well Driller License No.: TBD Expiration Date: _____

IV. WELL INFORMATION: ☐ Check here if this plan describes method for plugging multiple monitoring wells on the same site and attach supplemental form WD-08m and skip to #2 in this section.

Note: A copy of the existing Well Record for the well(s) to be plugged should be attached to this plan.

1) GPS Well Location: Latitude: _____ deg, _____ min, _____ sec
Longitude: _____ deg, _____ min, _____ sec, NAD 83

2) Reason(s) for plugging well(s):

To comply with OSE regulations as well as prevent ground water, if any intersected, from contamination.

3) Was well used for any type of monitoring program? NO If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.

4) Does the well tap brackish, saline, or otherwise poor quality water? NO If yes, provide additional detail, including analytical results and/or laboratory report(s):

5) Static water level: > 100 feet (below land surface) / feet above land surface (circle one)

6) Depth of the well: _____ feet

LLG-18620 TRN: 756997

7) Inside diameter of innermost casing: N/A inches.

8) Casing material: N/A

9) The well was constructed with:

☐ an open-hole production interval, state the open interval: N/A

☐ a well screen or perforated pipe, state the screened interval(s): N/A

10) What annular interval surrounding the artesian casing of this well is cement-grouted? N/A

11) Was the well built with surface casing? NO If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? _____ If yes, please describe:

12) Has all pumping equipment and associated piping been removed from the well? Yes If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

V. DESCRIPTION OF PLANNED WELL PLUGGING:

☐ **If plugging method differs between multiple wells on same site, a separate form must be completed for each method.**

Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.

Also, if this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.

1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well:

EACh proposed hole will be Filled From the bottom To the Top of the hole USing A tremmie pipe To 10'bgl with a bentonite plug mud and From 10'bgl To the SurFace with a Neat cement Plug/cap.

2) Will well head be cut-off below land surface after plugging? yes, should this be necessary

VI. PLUGGING AND SEALING MATERIALS:

Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mix recipe from the cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.

1) For plugging intervals that employ cement grout, complete and attach Table A.

2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.

3) Theoretical volume of grout required to plug the well to land surface: _____

4) Type of Cement proposed: Neat

5) Proposed cement grout mix: _____ gallons of water per 94 pound sack of Portland cement.

6) Will the grout be: _____ batch-mixed and delivered to the site

✓ mixed on site

7) Grout additives requested, and percent by dry weight relative to cement:

8) Additional notes and calculations:

VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):

VIII. SIGNATURE:

I, Raymond E. Irwin, CPG, say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.

Raymond E Irwin, CPG — Signature of Applicant

2/5/2024 — Date

IX. ACTION OF THE STATE ENGINEER:

This Well Plugging Plan of Operations is:

✓ Approved subject to the attached conditions.
_______ Not approved for the reasons provided on the attached letter.

Witness my hand and official seal this 5th day of March, 2024

John R. D'Antonio Jr. P.E., New Mexico State Engineer

By: [signature]

STATE OF NEW MEXICO

Minimal Impact Exploration Operation- Permit Application

Page 7 Attachment listing Proposed Core Holes at Copper Flat

The 2024 drilling program for the Copper Flat Project consists of four parts designed to evaluate four distinct targets. The four target areas are on either patented or unpatented claims located in the S1/2 Sec 26 and the N1/2 Sec 35, T16S, R7W. These proposed holes which may be drilled in different drilling campaigns are listed below with approximate NAD 83 coordinates.

Northeast Target:

The Northeast target is located entirely on a patented mining claims (Old Mac and 83) in the SE1/4 Sec 26. The proposed hole summary is as follows: Sec. 26, T-15S, R07W

	Site #	Location	North	East	TD	
POD 1	NE-A	NE of C-12	3651045	263295	750'	32°58'19.6"N 107°31'57.9"W
POD 2	NE-B	SE of C-19	3651115	263550	750'	32°58'22.2"N 107°31'48.2"W
POD 3	NE-C	ENE of C-19	3651165	263630	750'	32°58'23.8"N 107°31'45.1"W
POD 4	NE-D	SE of C-19	3651090	263635	750'	32°58'21.4"N 107°31'44.9"W
POD 5	NE-E	SW of 76-22	3650970	263525	750'	32°58'17.4"N 107°31'49"W
POD 6	NE-F	SE of 76-22	3650900	263590	750'	32°58'15.2"N 107°31'46.4"W

75-100 Target:

The 75-100 target is located entirely on patented claims (Copper King and Union Leader) in the NE1/4 Sec 35. The proposed hole summary is as follows: Sec. 35, T-15S, R07W

	Site #	Location	North	East	TD	
POD 7	S-A	E of I-7	3650410	263235	750'	32°57'59"N 107°31'40"W
POD 8	S-B	N of 75-100	3650370	263670	600'	32°57'56"N 107°31'42.8"W
POD 9	S-C	S of 75-100	3650315	263690	600'	32°57'54.3"N 107°31'42.0"W
POD 10	S-D	At 76-17	3650360	263765	600'	32°57'57.6"N 107°31'39.2"W
POD 11	S-E	S of 76-17	3650325	263765	600'	32°57'56.7"N 107°31'39.1"W
POD 12	S-F	N of 76-17	3650395	263770	600'	32°57'59"N 107°31'39"W
POD 13	S-G	N of 78-5	3650350	263620	600'	32°57'57.4"N 107°31'44.7"W
POD 14	S-H	S of 78-5	3650300	263620	600'	32°57'55.7"N 107°31'44.7"W
POD 15	S-I	S of 75-87	3650310	263560	600'	32°57'56"N 107°31'47"W
POD 16	S-J	W of 75-87	3650345	263475	600'	32°57'57.1"N 107°31'50.3"W
POD 17	S-K	SW of 75-87	3650295	263460	600'	32°57'55.4"N 107°31'50.9"W

75-105 Target:

The 75-105 target is located on unpatented mining claim MS 15 in the NE1/4 Sec 35. The proposed hole summary is as follows: Sec. 35, T-15S, R07W

	Site #	Location	North	East	TD	
POD 18	75-105 o/s	At 75-105	3650600	264040	750'	32°58'5.6"N 107°31'26.6"W
POD 19	75-105 N o/s	N 75-105	3650661	264040	750'	32°58'7.8"N 107°31'28.7"W

POD 20	75-105 S o/s	S of 75-105	3650540	264040	750'	32°58'3.6"N 107°31'26.8"W
POD 21	75-105 E o/s	E of 75-105	3650600	264085	750'	32°58'5.8"N 107°31'27.1"W
POD 22	75-105 W o/s	W of 75-105	3650600	264000	750'	32°58'5.8"N 107°31'30.4"W

Copper Flat Resource Expansion:

The Copper Flat Resource Expansion is located on the unpatented claim Gluck Auf located in the SW ¼ Sec 26 and the patented claim Allhutten located in the SW ¼ Sec 26 and the patented claims Craze Martin and Coppenhagen located in the NW ¼ Sec 35. The proposed hole summary is as follows:

	Site #	Location	North	East	TD	Sec.
POD 23	75-76 W o/s	W of 75-76	3650865	262915	800'	32°58'5.8"N 107°31'30.4"W
POD 24	CF 12-03 W o/s	N of I-5	3651000	263115	900'	32°58'18"N 107°32'49"W
POD 25	IDC-7 W o/s	W of IDC-7	3650390	263235	750'	32°57'58.3"N 107°31'586"W
POD 26	IDC-7 SW o/s	S of IDC-7	3650365	263295	750'	32°57'57.6"N 107°31'573"W

Mike A. Hamman, P.E.
STATE ENGINEER

District 4 Office
1680 Hickory Loop Suite J
Las Cruces, NM 88005-6598
Phone: (575) 524-6161
Fax: (575) 524-6160

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

Trn Nbr: 756772
File Nbr: LRG 18640

Mar. 05, 2024

THE MAC RESOURCES GROUP
RAYMOND IRWIN, CPG
420 ALVARADO DRIVE NE
ALBUQUERQUE, NM 87108

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

* If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.
* If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.
* The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.
* This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely,

Cheryl Thacker
Water Resource Manager
(575)524-6161

Enclosure
explore

CT

File No. LRG-18640

4-26390 SG

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:	☐ Pollution Control And/Or Recovery	☐ Ground Source Heat Pump
☐ Exploratory Well*(Pump test)	☐ Construction Site/Public Works Dewatering	☒ Other(Describe): Minerals Exploration
☐ Monitoring Well	☐ 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.

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

Plugging Plan of Operations Submitted? ☒ Yes ☐ No

1. APPLICANT(S)

Name: THE Mac Resources Group	Name: THE Mac Resources Group
Contact or Agent: Raymond Irwin check here if Agent ☒	Contact or Agent: Jeff Smith check here if Agent ☒
Mailing Address: 420 Alvarado Drive NE	Mailing Address: P.O. Box 4209
City: Albuquerque	City: Truth or Consequences
State: NM Zip Code: 87108	State: NM Zip Code: 87901
Phone: ☒ Home ☐ Cell	Phone: ☒ Home ☐ Cell
Phone (Work): (505) 256-5340	Phone (Work): (520) 991-4588
E-mail (optional): raymondirwin10@yahoo.com	E-mail (optional): jsmith50921@msn.com

FOR OSE INTERNAL USE Application for Permit, Form WR-07, Rev 07/12/22

File No.: LRG-18640	Trn. No.: 756772	Receipt No.:
Trans Description (optional): LRG-18640-POD1-26		
Sub-Basin: LRD	PCW/LOG Due Date: 3-5-2025	

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:

Exploratory:	**Pollution Control and/or Recovery:**	**Construction De-Watering:**	**Mine De-Watering:**
Is proposed well a future public water supply well? ☐ Yes ☒ NO If Yes, an application must be filed with NMED-DWB, concurrently. ☐ Include a description of the requested pump test if applicable.	☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for the pollution control or recovery operation. ☐ The estimated maximum period of time for completion of the operation. ☐ The annual diversion amount. ☐ The annual consumptive use amount. ☐ The maximum amount of water to be diverted and injected for the duration of the operation. ☐ The method and place of discharge. ☐ The method of measurement of water produced and discharged. ☐ The source of water to be injected. ☐ The method of measurement of water injected. ☐ The characteristics of the aquifer. ☐ The method of determining the resulting annual consumptive use of water and depletion from any related stream system. ☐ Proof of any permit required from the New Mexico Environment Department. ☐ 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.	☐ Include a description of the proposed dewatering operation, ☐ The estimated duration of the operation, ☐ The maximum amount of water to be diverted, ☐ A description of the need for the dewatering operation, and, ☐ A description of how the diverted water will be disposed of.	☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for mine dewatering. ☐ The estimated maximum period of time for completion of the operation. ☐ The source(s) of the water to be diverted. ☐ The geohydrologic characteristics of the aquifer(s). ☐ The maximum amount of water to be diverted per annum. ☐ The maximum amount of water to be diverted for the duration of the operation. ☐ The quality of the water. ☐ The method of measurement of water diverted. ☐ The recharge of water to the aquifer. ☐ Description of the estimated area of hydrologic effect of the project. ☐ The method and place of discharge. ☐ An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. ☐ A description of the methods employed to estimate effects on surface water rights and underground water rights. ☐ Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.
Monitoring ☐ The reason and duration of the monitoring is required.		**Ground Source Heat Pump:** ☐ Include a description of the geothermal heat exchange project, ☐ The number of boreholes for the completed project and required depths. ☐ The time frame for constructing the geothermal heat exchange project, and, ☐ The duration of the project. ☐ Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.	

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Raymond E Irwin, CPG
Print Name(s)

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

Raymond E. Irwin
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 5th day of March 20 24, for the State Engineer,

Mike A. Hamman, P.E, STATE ENGINEER

BY Cheryl Thacker
Water Resource Manager

_____, State Engineer

_____ Print

T _____
Print

STATE OF NEW MEXICO STATE ENGINEER

FOR OSE INTERNAL USE Application for Permit, Form WR-07 Version 07/12/22

File No.: LRG-18640	Trn No.: 756772

POD 20	75-105 S o/s	S of 75-105	3650540	264040	750'	32°58'3.8"N 107°31'28.8"W
POD 21	75-105 E o/s	E of 75-105	3650600	264085	750'	32°58'5.8"N 107°31'27.1"W
POD 22	75-105 W o/s	W of 75-105	3650600	264000	750'	32°58'5.8"N 107°31'30.4"W

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The Copper Flat Resource Expansion is located on the unpatented claim Gluck Auf located in the SW ¼ Sec 26 and the patented claim Allhutten located in the SW ¼ Sec 26 and the patented claims Craze Martin and Coppenhagen located in the NW ¼ Sec 35. The proposed hole summary is as follows:

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POD 24	CF 12-03 W o/s	N of I-5	3651000	263115	900'	32°58'18"N 107°32'4.9"W
POD 25	IDC-7 W o/s	W of IDC-7	3650390	263235	750'	32°57'58.3"N 107°31'59.6"W
POD 26	IDC-7 SW o/s	S of IDC-7	3650365	263295	750'	32°57'57.6"N 107°31'57.3"W

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

17-C The well driller must file the well record 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.

17-Q The State Engineer retains jurisdiction over this permit.

17-R 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.

LOG The Point of Diversion LRG 18640 POD1 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD10 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD11 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD12 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD13 must be completed and the Well Log filed on or before 03/05/2025.

SPECIFIC CONDITIONS OF APPROVAL (Continued)

LOG The Point of Diversion LRG 18640 POD23 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD24 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD25 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD26 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD3 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD4 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD5 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD6 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD7 must be completed and the Well Log filed on or before 03/05/2025.

LOG The Point of Diversion LRG 18640 POD8 must be completed and the Well Log filed on or before 03/05/2025.

OFFICE OF THE STATE ENGINEER/INTERSTATE STREAM COMMISSION – LAS CRUCES OFFICE

OFFICIAL RECEIPT NUMBER: 4 - 26390 DATE: 2-27-24 FILE NO.: _____

TOTAL: $130.00 RECEIVED: One Hundred & Thirty DOLLARS ☐ CASH: ☑ CHECK NO: 4467

PAYOR: Raymond Irwin ADDRESS: 420 Alvarado Dr NE CITY: Albuquerque

STATE: NM ZIP: 87108 RECEIVED BY: S. Gracey

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/Temp. Use	$ 5.00
___ 7.	Application to Appropriate Irrigation, Municipal, or Commercial Use	$ 25.00
___ 8.	Declaration of Water Right	$ 1.00
___ 9.	Application for Supplemental Non 72-12-1 Well	$ 25.00
___ 10.	Application to Change Place or Purpose of Use Non 72-12-1 Well	$ 25.00
___ 11.	Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Ground Water	$ 50.00
___ 12.	Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Ground Water	$ 50.00
___ 13.	Application to Change Point of Diversion of Non 72-12-1 Well	$ 25.00
___ 14.	Application to Repair or Deepen Non 72-12-1 Well	$ 5.00
26 15.	Application for Test, Expl. Observ. Well	$ 5.00
___ 16.	Application for Extension of Time	$ 25.00
___ 17.	Proof of Application to Beneficial Use	$ 25.00
___ 18.	Notice of Intent to Appropriate	$ 25.00

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

D. Reproduction of Documents

___ @ 0.25¢ $_____

___ Map(s) $_____

E. Certification $_____

F. *Credit Card Convenience Fee $_____

G. Other_____ $_____

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

All fees are non-refundable.

Mike A. Hamman, P.E.
State Engineer

Las Cruces Office- District 4
1680 HICKORY LOOP, SUITE J
LAS CRUCES, NM 88005

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

March 5, 2024

File No. LRG-18640

THEMAC Resources Group
Raymond Irwin, CPG
420 Alvarado Drive NE
Albuquerque, NM 87108

RE: Plugging Plan Approval for wells LRG-18640 POD1 thru LRG-18640 POD26

Greetings:

Enclosed is your copy of the Well Plugging Plan of Operations for wells LRG-18640 POD1 thru LRG-18640 POD26, approved subject to the attached conditions. You are responsible for submitting a properly completed Plugging Record to the office within thirty (30) days after plugging is completed. The Plugging record is available at:

http://www.ose.state.nm.us/STST/Forms/WD-11%20Plugging%20Record_2009-09-08_final.pdf

Sincerely,

Cheryl S. Thacker
Water Resources Manager
WRAP, District IV

Encl (2): Well Plugging Plan of Operations and Conditions of Approval

WELL PLUGGING PLAN OF OPERATIONS

NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/ aguat/ if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email nmbg-waterlevels@nmt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

I. FILING FEE: There is no filing fee for this form.

II. GENERAL / WELL OWNERSHIP: ☒ Check here if proposing one plan for multiple monitoring wells on the same site and attaching WD-08m

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: _____

Name of well owner: THEMAC Resources Group

Mailing address: P.O. BOX 4209 County: Sierra

City: Truth or Consequences State: NM Zip code: 87901

Phone number: (520) 991-4588 E-mail: jsmith50921@msn.com or raymondirwin10@yahoo.com

III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: TBD

New Mexico Well Driller License No.: TBD Expiration Date: _____

IV. WELL INFORMATION: ☐ **Check here if this plan describes method for plugging multiple monitoring wells on the same site and attach supplemental form WD-08m and skip to #2 in this section.**

Note: A copy of the existing Well Record for the well(s) to be plugged should be attached to this plan.

1) GPS Well Location: Latitude: _____ deg, _____ min, _____ sec
Longitude: _____ deg, _____ min, _____ sec, NAD 83

2) Reason(s) for plugging well(s):

To Comply with OSE regulations as well as prevent ground water, if any intersected, from contamination.

3) Was well used for any type of monitoring program? NO If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.

4) Does the well tap brackish, saline, or otherwise poor quality water? NO If yes, provide additional detail, including analytical results and/or laboratory report(s):

5) Static water level: >100 feet (below land surface) / feet above land surface (circle one)

6) Depth of the well: _____ feet

LLG-18640 TRN 756997

7) Grout additives requested, and percent by dry weight relative to cement:

8) Additional notes and calculations:

VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):

VIII. SIGNATURE:

I, Raymond E. Irwin, CPG, say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.

Raymond E Irwin, CPG — Signature of Applicant

2/15/2024 — Date

IX. ACTION OF THE STATE ENGINEER:

This Well Plugging Plan of Operations is:

✓ Approved subject to the attached conditions.

_____ Not approved for the reasons provided on the attached letter.

Witness my hand and official seal this 5th day of March, 2024

John R. D'Antonio Jr. P.E., New Mexico State Engineer

By: [signature]

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TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)			From TD To 10' bgL
Bottom of proposed sealant of grout placement (ft bgl)			From 10' bgL To Surface
Theoretical volume of sealant required per interval (gallons)			
Proposed abandonment sealant (manufacturer and trade name)			

Attachment
Conditions of Approval

Well Plugging Plan of Operations
Well Numbers LRG-18640 POD1 thru LRG-18640 POD26

File No.: LRG-18640

1) Wells LRG-18640 POD1 thru LRG-18640 POD26 shall each be plugged using the methods and materials identified in the State Engineer approved Well Plugging Plan of Operations filed on February 27, 2024.

2) In addition, wells LRG-18640 POD1 thru LRG-18640 POD26 shall each 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:

   All pumping appurtenances 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 (2) vertical feet of approved sealant.

   Wells that do not encounter a water bearing stratum shall at a minimum be plugged by filling the well with drill cuttings or clean native fill to within 10 feet of land surface and by plugging the remaining 10 feet of the well to ground surface with a plug of the office of the state engineer 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 wells shall be filed with the Office of the State Engineer in the District IV office in Las Cruces within thirty (30) days of completion of the plugging.

2) A licensed well driller shall keep a record of the plugging work as it progresses and file a complete Plugging Record (Office of the State Engineer Form No.: WR-20) with the State Engineer no later than thirty (30) days after completion of plugging.

3) New Mexico Office of the State Engineer (NMOSE) witnessing of the plugging will not be required unless artesian conditions are encountered but shall be facilitated if a NMOSE observer is onsite. NMOSE witnessing may be requested during normal work hours by calling the District IV NMOSE office at 575-524-6161 at least 48 hours in advance. NMOSE inspection will occur depending on personnel availability.

4) Should another regulatory agency sharing jurisdiction of the project authorize or by regulation require more stringent requirements than stated herein, the more stringent procedure shall be followed. This in part includes provisions regarding preauthorization to proceed, type of methods and materials used, inspection, or prohibition of free discharge of any fluid or other material to or from the well that is related to the plugging process.

Date: 3/5/2024

Cheryl S. Thacker
Water Resources Manager
WRAP District IV