



September 4, 2023

From: Chris York, VP Exploration, Summa Silver, cyork@summasilver.com

To: Kevin Barnes, Permit Lead, Mining Act Reclamation Program,
kevin.barnes@emnr.dnm.gov.

RE: Agency Review Comments and Request for Additional Information, Summa Silver Mogollon Project, Catron County, New Mexico, Permit No. CA27EM

Dear Mr. Barnes,

Summa Silver has reviewed the comment letters submitted as part of our Part 3 Minimal Impact Exploration Permit Modification and Renewal. We have identified the following comments and have the subsequent responses:

New Mexico Mining and Minerals Division (MMD) Comments and Summa Silver Responses

MMD Comment #1

During site visits conducted on June 26 and July 26, 2023, it was stated by Summa that proposed drill pads DP8A, DP12, and DP13 were to be removed from the PAP due to proximity with registered historic districts and/or artifact sites. Please confirm that these drill pads have been removed from the PAP and state if any other drill pads, access roads, or any other form of permitted disturbance are to be removed from the PAP.

Summa Silver Response to MMD Comment #1

Summa Silver confirms that drill pads DP8A, DP12, and DP13 have been removed from the PAP due to proximity with registered historic districts and/or artifact sites. Consequently, the proposed access roads to drill pads DP 12 and DP 13 have also been removed from the PAP. The recalculated estimated disturbance acreage due to drill pads is 0.401 acres. Recalculated estimated road disturbance totals are discussed below. An updated map (Figure 1, Page 12) and revised PAP are included in addition to this response memorandum.

MMD Comment #2

During site visits conducted on June 26 and July 26, 2023, it was noted that proposed access routes along historic roads to DP6/DP7 and DP10 are in some sections totally reclaimed by native vegetation and slopes. The condition of these routes would require new road construction as opposed to extension or widening of an existing usable road. Please recalculate estimated disturbance acreage due to new road construction.

Summa Silver Response to MMD Comment #2

The PAP has been revised to reflect the recalculated estimated disturbance acreage due to new road construction as well as the removal of drill pads and associated roads discussed in our response to MMD Comment #1. The recalculated estimated disturbance acreage due to new road construction is 1.192 acres.



An updated map (Figure 1, Page 12) and revised PAP are included in addition to this response memorandum.

MMD Comment #3

It was noted during site visits that the proposed access route to DP10 at one point crosses a drainage with two prominent channels. Please show how the road would be constructed in this portion, i.e. installation of a culvert or another diversion structure.

Summa Silver Response MMD Comment #3

We have evaluated the most effective and least disruptive means to manage the water flow while ensuring the safety and sustainability of the access route. Rather than installing a culvert or another diversion structure, our approach is to grade the road along the contour of the land. This method will allow for natural drainage while reducing the likelihood of road damage. In the event that any damage does occur to the road before reclamation, we are committed to promptly repairing it to maintain accessibility and minimize environmental impacts.

MMD Comment #4

State and show which previously permitted drill pads, borings, and access roads have been constructed and the reclamation or abandonment status of each.

Summa Silver Response to MMD Comment #4

Previously permitted drill pads 11, 17, 18, 20, 22, and 26 have been constructed, including existing road access improvements to the listed drill pads, and no new road construction has occurred. No reclamation has occurred because drilling activities at each constructed drill pad are ongoing. Reclamation will occur in accordance with permit stipulations once drilling activities have been completed. An updated map (Figure 1, Page 12) and revised PAP are included in addition to this response memorandum.

MMD Comment #5

In the 2021 PAP and the current PAP, there are several different road widths included for estimated disturbance due to new road construction and existing road improvement ranging from 5 to 14 feet in width. For the purpose of disturbance estimation due to road construction or improvement, the entire road width should be included in the calculation, and road width should not vary widely across a permit unless there is a different purpose or equipment usage planned. Please clarify road width for all proposed and previously permitted new road construction and existing road improvement and recalculate total estimated disturbance as necessary. If a section of road will vary in width from the majority of proposed roads, please state the reason for the variation.

Summa Silver Response to MMD Comment #5

Road width for all proposed and previously permitted new road construction and existing road improvement will be 10 feet. The PAP has been revised to reflect the recalculated estimated disturbance acreage. To summarize revised project disturbance estimates, the recalculated estimated disturbance acreage due to existing road improvement is 0.322 acres and 1.192 acres for new road construction, resulting in a recalculated estimated road disturbance total of 1.514 acres. Including a recalculated estimated disturbance acreage due to drill pads (0.401 acres), the revised total acreage to be disturbed relative to this permit modification request is 1.914 acres. Our currently approved permit allows for 1.350 total acres of disturbance; therefore, our total estimated project disturbance is 3.264 acres upon approval



of this modification request. An updated map (Figure 1, Page 12) and revised PAP are included in addition to this response memorandum.

New Mexico Environment Department (“NMED”) Mining Environmental Compliance Section Comments and Summa Silver Responses

NMED Comment #1

Regulations associated with minimal impact exploration operations are found at 19.10.3.302 NMAC. Required information associated with an application for a minimal impact exploration operation with regard to groundwater are found at 19.10.3.302 D(5) NMAC and state, “an estimate of depth to groundwater and total dissolved solids concentration”. The applicant lists a Total Dissolved Solids (TDS) range of 120-1,440 mg/L cited from research for Catron County. This range may not be representative of site conditions given the site is located within a mining district. The applicant should sample groundwater from at least one of the borings that encounters groundwater and provide sample results as part of project.

Summa Silver Response to NMED Comment #1

We understand that our original TDS estimate represents a wide range of values. The TDS range has been revised to 200-330 mg/L based on publicly available data from the New Mexico Institute of Mining & Technology’s [Bureau of Geology & Mineral Resources](#) for the town of Mogollon. Please note that we have not encountered groundwater to date, and it is very difficult to determine an encounter unless it is robust, as often indicated by drilling mud degradation. In response to the request for groundwater sampling, we’ve thoroughly reviewed the involved procedures and implications. While we understand the importance of obtaining accurate water samples, the process is notably intricate. It requires specialized professionals and extended periods of several hours to numerous days to ensure water clarity and stability. Additionally, the sensitivity of the water’s chemistry to external factors can potentially skew results (extracting groundwater, altering its pressure, exposing it to well casings, and the pumping process can lead to changes in its chemical makeup), rendering the effort potentially counterproductive. Given these factors, we believe alternative, more effective approaches to achieve the desired objectives might exist. We are open to discussing these alternatives further to find the best solution for all involved parties.

NMED Comment #2

New Mexico Office of the State Engineer (NMOSE) forms WR-07 and WD-08 were not provided in the application. The applicant needs to comply with the NMOSE regulations for permitting and abandoning monitoring wells.

Summa Silver Response to NMED Comment #2

NMOSE forms WR-07 and WD-08 submitted to NMOSE in the past were returned because NMOSE will not hold the paperwork or conditionally approve the work plan until the permit renewal is first approved by MMD. Draft forms WR-07 and WD-08 are included in addition to this response memorandum and will be submitted to NMOSE promptly after the approval of our permit renewal.



NMED Surface Water Quality Bureau (“SWQB”) Comments and Summa Silver Responses

SWQB Comment #1

This Project will disturb one or more acres and storm water discharges may be covered under both/either the U.S. Environmental Protection Agency (USEPA) National Pollutant Discharge Elimination System (NPDES) Construction General Permit (CGP) or under the Multi-Sector General Permit (MSGP) under Sector G Metal Mining. The applicant must contact the EPA to determine whether this project is subject to NPDES permitting. Please provide documentation of either 1) EPA’s confirmation that coverage is not required, or 2) a permit coverage number under CGP and/or MSGP.

Summa Silver Response to SWQB Comment #1

We have developed a Stormwater Pollution Prevention Plan (SWPPP) and are in the process of securing a MSGP permit under Master Permit Number NMR050000. No project activities will occur until the MSGP permit is EPA-certified in mid-September 2023.

SWQB Comment #2

Mine activities may affect Surface Waters of the State as defined in 20.6.4.7 NMAC, which includes ephemeral arroyos within the mining operations and are subject to 20.6.4.98 NMAC. Furthermore, operations must ensure protection of surface waters of the state including General Criteria at 20.6.4.13 NMAC, established to sustain and protect existing or attainable uses of surface waters of the State. These general criteria apply to all surface waters of the state at all times.

Summa Silver Response to SWQB Comment #2

Our planned operations and current permit stipulations have incorporated the necessary precautions to protect the Surface Waters of the State as defined in 20.6.4.7 NMAC. We are confident that our existing permit stipulations and successive mitigation measures satisfy the protection criteria outlined in 20.6.4.13 NMAC. Our team is well-trained and versed in these regulations, ensuring that all our activities will be conducted in adherence to the prescribed guidelines.

SWQB Comment #3

The Applicant is required to report all spills immediately to the NMED as required by the New Mexico Water Quality Control Commission regulations (20.6.2.1203 NMAC).

Summa Silver Response to SWQB Comment #3

All spills will be reported immediately to the NMED.

SWQB Comment #4

In addition to the above regulatory standards, SWQB requires the following practices to avoid contamination and to protect surface and groundwater quality:

- A. Access to drill pad 10 will require widening and improving an abandoned road that crosses an ephemeral drainage. Improvements to the crossing should not impede the flow of water and at reclamation, the channel should be returned to its original dimensions.
- B. Process water must be contained within the closed-loop system and may not be discharged unless a discharge permit has been secured from the EPA and/or NMED.
- C. Drill pads should be lined to prevent mobilization of fuels and oils subsurface and into groundwater.



- D. Fuel, oil, hydraulic fluid, lubricants, and other petrochemicals must have a secondary containment system to prevent spills. Store these materials outside of the flood-prone zone.
- E. Perform all work, when practicable, in the dry season and postpone work during excessively wet and muddy conditions.
- F. Appropriate spill clean-up materials such as absorbent pads must be available on-site at all times during road construction, site preparations, drilling and reclamation to address potential spills.
- G. Provide a minimum 50' setback from existing drainages to drill pads and staging areas.

Summa Silver Response to SWQB Comment #4

- A. Improvements to the crossing will be constructed in a manner that will not impede the flow of water, and at reclamation, the channel shall be returned to its original dimensions.
- B. All water will be contained within tanks and not discharged to adjacent drainages. Pads will also be bermed to limit any potential spills.
- C. Drill pads will be lined to prevent the potential mobilization of fuels and oils subsurface and into groundwater.
- D. All fuel, oil, hydraulic fluid, lubricants, and other petrochemicals will be stored in secondary containment in such a manner that the volume of the hydrocarbons and petrochemicals does not exceed the volume of the secondary containment.
- E. All work, when safe and practicable, will be performed in dry conditions, and work will be postponed during wet and muddy conditions.
- F. Spill kits and absorbent pads will be provided on-site at all times for potential spills.
- G. A minimum 50' setback from existing drainages to drill pads and staging areas will be provided and maintained.

NMED Air Quality Bureau Comments and Summa Silver Responses

NMED Comment #1

20.2.15 NMAC, *Pumice, Mica and Perlite Processing*. Including 20.2.15.110 NMAC, *Other Particulate Control*: "The owner or operator of pumice, mica or perlite process equipment shall not permit, cause, suffer or allow any material to be handled, transported, stored or disposed of or a building or road to be used, constructed, altered or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne."

Summa Silver Response to NMED Comment #1

No mining or processing is currently planned. Work will be conducted with exploration drilling rigs to prospect for gold and silver mineralization in volcanic rocks. All road and pad construction will be watered as appropriate to minimize particulates from becoming airborne through active use and construction.

NMED Comment #2

Paragraph (1) of Subsection A of 20.2.72.200 NMAC, *Application for Construction, Modification, NSPS, and NESHAP - Permits and Revisions*, states that air quality permits must be obtained by:

“Any person constructing a stationary source which has a potential emission rate greater than 10 pounds per hour or 25 tons per year of any regulated air contaminant for which there is a National or New Mexico Ambient Air Quality Standard. If the specified threshold in this subsection is exceeded for any one regulated air contaminant, all regulated air contaminants with National or New Mexico Ambient Air Quality Standards emitted are subject to permit review.”

Further, Paragraph (3) of this subsection states that air quality permits must be obtained by:

“Any person constructing or modifying any source or installing any equipment which is subject to 20.2.77 NMAC, *New Source Performance Standards*, 20.2.78 NMAC, *Emission Standards for Hazardous Air Pollutants*, or any other New Mexico Air Quality Control Regulation which contains emission limitations for any regulated air contaminant.”

Also, Paragraph (1) of Subsection A of 20.2.73.200 NMAC, *Notice of Intent*, states that:

“Any owner or operator intending to construct a new stationary source which has a potential emission rate greater than 10 tons per year of any regulated air contaminant or 1 ton per year of lead shall file a notice of intent with the department.”

Summa Silver Response to NMED Comment #2

No stationary equipment or buildings will be constructed, and no stationary equipment on site will be used, as all equipment is mobile.

NMED Comment #3

Air emissions from this project should be evaluated to determine if an air quality permit is required pursuant to 20.2.72.200.A NMAC (e.g. 10 lb/hour or 25 TPY). Fugitive dust is a common problem at mining sites and this project will temporarily impact air quality as a result of these emissions. However, with the appropriate dust control measures in place, the increased levels should be minimal. Disturbed surface areas, within and adjacent to the project area, should be reclaimed to avoid long-term problems with erosion and fugitive dust. EPA’s *Compilation of Air Pollutant Emission Factors, AP-42, “Miscellaneous Sources”* lists a variety of control strategies that can be included in a comprehensive facility dust control plan. A few possible control strategies are listed below:

Paved roads: covering of loads in trucks to eliminate truck spillage, paving of access areas to sites, vacuum sweeping, water flushing, and broom sweeping and flushing.

Material handling: wind speed reduction and wet suppression, including watering and application of surfactants (wet suppression should not confound track out problems).

Bulldozing: wet suppression of materials to “optimum moisture” for compaction.

Scraping: wet suppression of scraper travel routes.

Storage piles: enclosure or covering of piles, application of surfactants.



Miscellaneous fugitive dust sources: watering, application of surfactants or reduction of surface wind speed with windbreaks or source enclosures.

Summa Silver Response to NMED Comment #3

There will be no mining or establishment of permanent buildings/equipment. Activities will focus solely on exploration drilling and the development of roads/pads. Both roads and pads will be designed with a compact footprint, ensuring reduced earth disturbance. Once the work concludes, these areas will undergo reclamation. The above-listed fugitive dust control strategies will be implemented when and where practicable.

New Mexico Department of Game and Fish (NMDGF) Comments and Summa Silver Responses

NMDGF Comment #1

The Department is particularly concerned about potential adverse impacts to MSO foraging behavior and nest success in the event that Summa Silver decides to bring in multiple drilling rigs during the breeding and fledgling-dependency period.

Summa Silver Response to NMDGF Comment #1

Summa Silver remains committed to maintaining the integrity of MSO ecology. Presently, we do not intend to operate during the seasonal closure. If future considerations warrant activities during this period, we will engage with the USFWS as well as submit a permit modification, including a comprehensive MSO Mitigation Management Plan, which would detail our commitment to respecting the 0.5-mile seasonal buffers and Primary Activity Centers.

NMDGF Comment #2

The Department recommends that current seasonal restrictions on, and buffer distances (i.e., 0.5 miles) from nest sites, for drilling activities be maintained to minimize impacts on the MSO population near the proposed exploration project area.

Summa Silver Response to NMDGF Comment #2

We anticipate and respect that the current seasonal restrictions and related buffer distances (i.e., 0.5 miles) from nest sites will be a stipulation of our permit renewal in the same manner it was in the past. As described above, we do not intend to operate during the seasonal closure, and if future considerations warrant activities during this period, we will engage with the USFWS as well as submit a permit modification, including a comprehensive MSO Mitigation Management Plan based on the best available science and agency recommended best management practices.

NMDGF Comment #3

It is also recommended that the MSO nest and roost sites continue to be monitored for occupancy, breeding activity, and reproductive success for the duration of the exploration project.

Summa Silver Response to NMDGF Comment #3

MSO nest and roost sites will continue to be monitored for occupancy, breeding activity, and reproductive success for the duration of the exploration project. We look forward to the opportunity to continue our



interagency collaborations and are proud to contribute our research findings in support of ongoing natural resources management and conservation priorities.

NMDGF Comment #4

Proposed drill pad sites 10, 12, and 13 are within the 0.5 miles buffer of the Silver Creek #1 nest site. These drill pad sites should either be removed from the proposed drilling program or relocated outside of the nest site buffer zone. Of particular concern is pad site 10, which is located 0.33 miles away from and is also in direct line of sight of the nest/roost site. The Department believes that conducting drilling activities at site 10 would be likely to have adverse effects on the MSO pair that nest and roost at Silver Creek nest site #1.

Summa Silver Response to NMDGF Comment #4

Proposed drill pad sites 12, 13, and associated access roads have been eliminated from further consideration. However, drill pad 10 is a crucial work site that will allow the project to efficiently explore multiple targets from a single location, which would drastically mitigate potential future environmental effects that may occur as a result of implementing exploration activities at multiple alternative sites. Furthermore, drill pad 10 and its associated access road would be located on previously disturbed ground that was last accessed in the 1980s, thereby eliminating the need to pioneer new access routes and work sites on the slope. However, we recognize the Department's concern and agree that work in this particular area warrants a high degree of preparation and mitigation; therefore, we plan on working with NMDGF, USFWS, and USFS to explore options intended to result in an interagency approved site-specific work plan before we commit to work at drill pad 10.

NMDGF Comment #5

The Department recommends that during new road and drill pad construction, large, mature trees are left undisturbed to the maximum extent feasible. Tree species to protect include alligator juniper, Gambel oak, piñon pine, and ponderosa pine.

Summa Silver Response to NMDGF Comment #5

Summa Silver will exercise all options to avoid disturbing mature alligator juniper, Gambel oak, piñon pine, and ponderosa pine trees.

NMDGF Comment #6

The Department also recommends that Summa Silver continue to consult with the USFWS regarding any additional concerns or mitigation measures and to assist with a strategy to delineate appropriate boundaries for Primary Activity Centers (PACs).

Summa Silver Response to NMDGF Comment #6

Summa Silver will continue to consult with the USFWS regarding any additional concerns or mitigation measures, and we are currently in the process of assisting with Primary Activity Center (PACs) delineation as well as planning future MSO surveys.



New Mexico Office of the State Engineer (NMOSE) Comments and Summa Silver Responses

NMOSE Comment #1

If Summa Silver is going to continue with any undrilled exploration boreholes, it is worth noting the current permit they have, under OSE File No. GSF-04731, for permit to drill exploratory PODs 5, 7, 8, 10, 13-18, 21-23, however, that permit is set to expire on September 30, 2023. If drilling under this permit is set to continue, they must provide the OSE District III office with Well Logs before September 30, 2023. According to my records, it appears the OSE has received Well Logs and Plugging Records for the following: PODs 5, 7, 8, 13, 15-18, 21-23. Therefore, based on the OSE records, Summa is still permitted to drill PODs 10 and 14 before September 30, 2023.

Summa Silver Response to NMOSE Comment #1

Summa Silver does not plan to drill POD10 or 14 before Sept 30th. In the past, NMOSE exploratory drilling permit applications submitted to NMOSE have been returned because NMOSE will not hold the paperwork or provide conditional approval until our MMD permit renewal is first approved by MMD. We will submit our exploratory drilling permit application as well as applicable well logs and plugging records promptly after MMD permit renewal approval.

New Mexico Energy, Minerals, and Natural Resources Department Forestry Division (Forestry) Comments and Summa Silver Responses

Forestry Comment #1

Thank you for the opportunity to comment on the above referenced project. I do not anticipate any impacts to State Endangered plants listed in Section 75-6-1 NMSA 1978.

However, there are several rare species listed on the New Mexico Rare Plant Technical Council's website for Catron County that could be present. These species are: *Cymopterus davidsonii* (State Rank: 1), *Silene wrightii* (State Rank: 2), *Packera cardamine* (Forest Service Sensitive species; State Rank 2), *Draba mogollonica* (State Rank: 2), *Cirsium gilense* (Forest Service Sensitive Species, State Rank: 2), *Anticlea mogollonensis* (Forest Service Sensitive Species, State Rank: 1), and *Phemeranthus humilis* (Forest Service Sensitive Species, State Rank: 2). *Phemeranthus humilis* (Pinos Altos fame flower), is the most likely species to be present; a rare species that only flowers from July-September and only in late afternoon, making it difficult to detect. It has been found on nearby Gila National Forest lands at, or near, similar elevations as the project area and in similar habitat. It is currently being watched as a potential species for listing.

Summa Silver Response to Forestry Comment #1

We appreciate the Forestry Division's findings and information about the potential occurrence of rare plant species found on nearby Gila National Forest lands. We will maintain vigilance for the potential presence of the listed species. As the project progresses, so too will future biological surveys, which will take into account the Division's species list.



Forestry Comment #2

It should be noted that the species listed above have not yet been listed as State Endangered, nor Federally listed by the USFWS, thus do not carry legal protections. However, they do have state rankings of S1 (Critically Imperiled) or S2 (Imperiled) as defined by NatureServe and determined rare by local experts.

Summa Silver Response to Forestry Comment #2

Summa Silver acknowledges that the species listed above have not yet been listed as State Endangered nor Federally listed by the USFWS, although they do have state rankings as defined by NatureServe and determined rare by local experts. Future field assessments will take into account the Division's species list, and a Summa Silver representative will be in contact with the Division well ahead of future field assessments.

Forestry Comment #3

The Division of Forestry would suggest that if a biological assessment is conducted again in the future, that it be done during an appropriate time (during growing season) to search for the above-mentioned species.

Summa Silver Response to Forestry Comment #3

When biological assessments continue in the future, a Summa Silver representative will be in contact with the Division to discuss species-specific survey protocols.

New Mexico Department of Cultural Affairs - Historic Preservation Division (NMDCA/HPD) Comments and Summa Silver Responses

NMDCA/HPD Comment #1

The SHPO does believe that the proposed modification of the road that will lead to Drill Pads 12 and 13 will have an adverse effect to SR 1413 as the proposed road widening will introduce a modern feature that will diminish the historic district in the aspects of design and setting. The proposed road will change the historic character of the historic district by widening a narrow, unpaved road.

Summa Silver Response to NMDCA/HPD Comment #1

Drill Pads 12, 13, and associated access roads have been removed from the PAP.

NMDCA/HPD Comment #2

Sites LA 202361 and LA 202362 represent historic trash dumps that each contain thousands of artifacts. The report (*A Cultural Resources Inventory of 29.17 Acres of Private Lands near Mogollon, Catron County, New Mexico for a Proposed Mineral Exploration Drilling Project*) (NMCRI# 152144) by Westland Engineering and Environmental Services) acknowledges that these trash middens are associated with mining and domestic activities but recommends the sites as not eligible for the NRHP. The SHPO does not concur with these NRHP eligibility recommendations. While the sites are not situated within the National Register District, potentially significant mining-related properties can also be located in places distant from the actual mine locations. These sites may contain information regarding the domestic consumption patterns of miners and their families and could provide important information regarding mine economies. LA 202361 and LA 262362 retain an undetermined eligibility for the NRHP pending a



more comprehensive analysis of the site's artifact assemblages conducted under an appropriate research design. Until such occurs, these sites should be treated as being eligible for the NRHP and avoided by all drill related construction.

Summa Silver Response to NMDCA/HPD Comment #2

Summa Silver has informed Westland Engineering and Environmental Services (Westland) of NMDCA/HPD's findings, and Westland has provided a revised report and comment response matrix that will be agency-submitted separately from this response memorandum.

NMDCA/HPD Comment #3

The SHPO believes that the building recorded as HCPI 38345 is not eligible for listing in the National Register because of its loss integrity in its design, materials, and workmanship.

Summa Silver Response to NMDCA/HPD Comment #3

Summa Silver has informed Westland Engineering and Environmental Services (Westland) of NMDCA/HPD's findings, and Westland has provided a revised report and comment response matrix that will be agency-submitted separately from this response memorandum.

NMDCA/HPD Comment #4

Finally, The SHPO believes that IO-2, a trash scatter composed of 40-50 artifacts, should have been recorded as a site.

Summa Silver Response to NMDCA/HPD Comment #4

Summa Silver has informed Westland Engineering and Environmental Services (Westland) of NMDCA/HPD's findings, and Westland has provided a revised report and comment response matrix that will be agency-submitted separately from this response memorandum.

White Mountain Apache Tribe Comments and Summa Silver Responses

White Mountain Apache Tribe Comment #1

Please be advised, we have reviewed the consultation letter and the information provided, we have reviewed the information provided and determined the proposed project application will have a "No Adverse Effect" to the tribe's traditional cultural properties and/or historic properties.

Summa Silver Response to White Mountain Apache Tribe Comment #1

Summa Silver would like to thank the White Mountain Apache Tribe for their timely review. We affirm our commitment to respect and value the region's significant heritage.

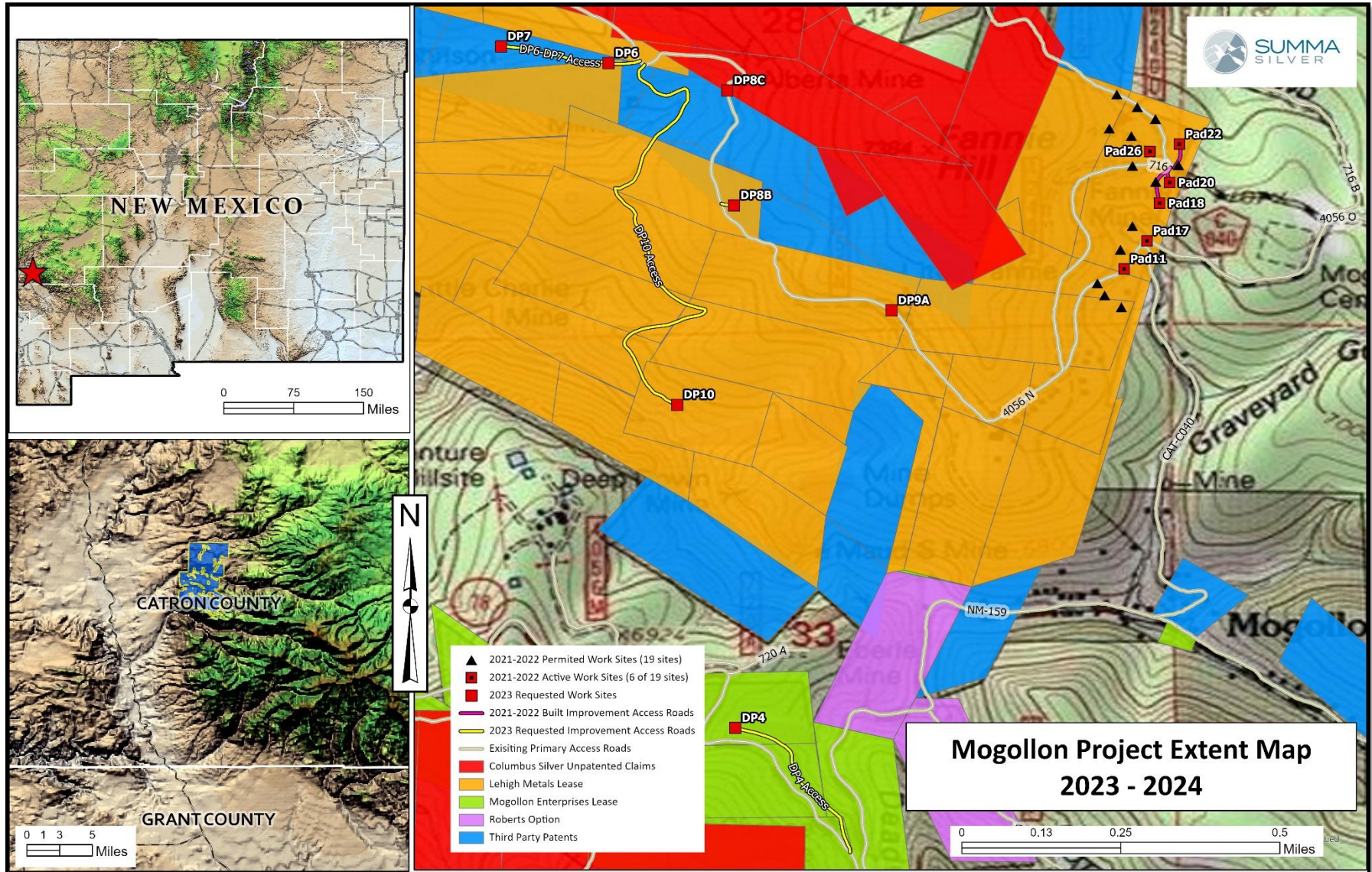


Figure 1: Revised Mogollon Project Extent Map depicting land ownership, drill pad, and access road locations.

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/MARPAplicationandReportingForms.htm>

Send 6 copies of the completed application to:

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

Director
Mining and Minerals Division
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505
Telephone: (505) 476-3400

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

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

- Yes No My project **will exceed 1000 cubic yards of excavation**, per permit.
- 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: Mogollon Project - Phase 2

Nearest Town To Project: Mogollon, New Mexico

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

Name: Galen McNamara

Address: 918-1030 West Georgia Street Vancouver, BC, V6E 2Y3

Office Phone: 604-288-8004

Cell Phone: 604-788-3677

Fax Number: N/A

Email: galen@summasilver.com

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

Name: Chris York

Address: 2552 Hamilton Creek Trail, Elko, Nevada, 89801

Office Phone: 618-263-8664

Cell Phone: 618-263-8664

Fax Number: N/A

Email: cyork@summasilver.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.

Exploration activities will be conducted on:

- Patented claims owned or leased by Summa Silver Corp. (Attachment #: Patented Mine Claims and Patented Mine Claim Lease Agreements).
- Unpatented claims owned by Summa Silver Corp. (Attachment #: Unpatented Mine Claims and Patented Mine Claim Lease Agreements)

Attachment _____ Documents are inserted at the end of this section.

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

Surface Estate Owner(s):

Name	Address	Phone #
<input type="checkbox"/> U.S. BLM	_____	_____
<input type="checkbox"/> U.S. Forest Service	_____	_____
<input type="checkbox"/> State of NM	_____	_____
<input checked="" type="checkbox"/> Private/Corporate		

Lehigh Mining Claims Name: Mack, John Jr. and Hott, Ann and Parker, Mary K.
Address: 9A Cherokee Sq, Wilkes Barre, PA, 18702

Columbus Mining Claims Name: Allegiant Gold (U.S.) LTD.
Address: 1090 Hamilton Street, Vancouver, BC, V6B 2R9

Last Chance Mining Claims Name: Mogollon Enterprises Inc. c/o Elton Clark
Address: 2180 East Circulo Solaz, Tucson, AZ, 85918

Other _____

Name: _____

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

Name	Address	Phone #
<u>Summa Silver Corp.</u>	<u>918-1030 West Georgia Street, Vancouver BC, V6E 2Y3</u>	<u>(604) 778-3677</u>

Mineral Estate Owner(s):

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

Claim/Lease Holders

Lehigh Mining Claims Name: Mack, John Jr. and Hott, Ann and Parker, Mary K.
Address: 9A Cherokee Sq, Wilkes Barre, PA, 18702

Columbus Mining Claims Name: Allegiant Gold (U.S.) LTD.
Address: 1090 Hamilton Street, Vancouver, BC, V6B 2R9

Last Chance Mining Claims Name: Mogollon Enterprises Inc. c/o Elton Clark
Address: 2180 East Circulo Solaz, Tucson, AZ, 85918

Claim Numbers: _____

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:

Lan Craig and John M.D. Hooper/WestLand Resources, Inc. "*A Cultural Resources Inventory of 30.52 Acres of Private Lands near Mogollon, Catron County, New Mexico for a Proposed Mineral Exploration Drilling Project*". Revised August 11, 2023, Cultural Resources Report No. 2023-018, NMCRIS Activity No. 152144

Attachment This report has been provided directly to the New Mexico State Historic Preservation Officer and is not included with this submittal for confidentiality reasons.

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:

James Waddell/Everett Ecological, LLC. "*Mogollon Project Baseline Habitat Assessment and Wildlife Evaluation*". April 10, 2023.

Attachment See Component C: Environmental Evaluation

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

A. Project Location:

Township 10 S Range 19 W Section 28

Township 10 S Range 19 W Section 33

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

I.D. Number	Northing / Latitude	Easting / Longitude
DP4	33.395096°	-108.804855°
DP6	33.410213°	-108.807739°
DP7	33.410591°	-108.810181°
DP8B	33.406979°	-108.804884°
DP8C	33.409590°	-108.805036°
DP9A	33.404588°	-108.801302°
DP10	33.402443°	-108.806175°

I.D. Number	Northing / Latitude	Easting / Longitude

Coordinate system used to collect GPS data points:

- | | |
|---|--|
| <input type="checkbox"/> NAD83 Geographic
<input type="checkbox"/> NAD83 UTM Zone 13 (or 12)
<input checked="" type="checkbox"/> WGS 1984 | <input type="checkbox"/> NAD27 Geographic
<input type="checkbox"/> NAD27 UTM Zone 13 (or 12)
<input type="checkbox"/> Other: _____ |
|---|--|

Attachment N/A (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 See Component D: Map Set

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

- Yes – Drill pad dimensions and constructed drill pad locations

Attachments See Component D: Map Set

C. Provide detailed driving directions to access the site:

The proposed exploration areas are located just west and north of the town of Mogollon, NM and approximately seven (7) miles east of the town of Alma, NM. To reach the site, travel east on NM State Road 159 for approximately seven (7) miles from the junction with US HWY 180. Drill sites will be accessed from spur roads originating from SR 159 just west of Mogollon, including Fanny Road (See Map D).

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

A. Anticipated exploration: Start Date: October 1, 2023 End Date: October 1, 2024

B. List the mineral(s)/element(s) to be explored for: Silver, Gold

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:

75 # of holes ~600-2000 / hole Depth (ft.) 4-5" Diameter (in.)

29 # of drill pads 50 Length (ft.) 50 Width (ft.)

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

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

Will a closed loop system be used or will mud/fluid pits be used? The project does not involve constructing ponds or impoundments. Drilling mud/fluid will be contained within aboveground mobile storage tanks at each drill site.

If mud/fluid pits are proposed:

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

Anticipated excavating equipment:

- ATV
- Tire/Track Mounted Drilling Rig
- Water Tender
- Light Weight Four (4) Wheel Drive Pick Ups
- Fuel and Lube Truck
- Wheel Loader
- Bulldozer
- Hydraulic Excavator
- Backhoe

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

Driven via roads.

Will mud pits be lined?: Yes No

If yes, proposed material to line the mud pits: N/A

Approx. Weight of Drill Rig (lbs.) ~ 18,000 lbs. Number of Axles: 3 or track mounted.

Anticipated Drilling Contractor: Contract not awarded yet License No. _____

Test pits / exploratory trenches:

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

Anticipated excavating equipment: _____

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

- Other methods of exploration** (i.e., cuts, shafts, tunnels, adits, declines, blasting, etc.). Indicate method and details: Mineral exploration, diamond core drilling. A small footprint wheel or track-mounted diamond drill rig will be used to drill a series of exploration holes averaging 1,100 feet from 29 pads. Multiple HQ diameter, angled exploration holes will be completed from each pad.

TOTAL ACREAGE TO BE DISTURBED DUE TO DRILL PADS = 0.401 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 = N / A acres
(to convert to acres, multiply total square footage of disposal pit by 0.0000229)

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

- | | | | |
|-------------------------------------|--------------------------|----------------|---|
| <input checked="" type="checkbox"/> | 4x4 Trucks/Vehicles | Quantity: | <u>Three (3)</u> |
| <input checked="" type="checkbox"/> | Water Truck | Weight (lbs.): | <u>~ 35,000 lbs.</u> |
| <input type="checkbox"/> | Geophysical Truck | Weight (lbs.): | _____ |
| <input checked="" type="checkbox"/> | Pipe Truck (rig support) | Weight (lbs.): | <u>~ 35,000 lbs.</u> |
| <input checked="" type="checkbox"/> | Bulldozer | Type: | <u>CAT® bulldozer (size = D6 or D7, weight ~80,000 lbs)</u> |
| <input checked="" type="checkbox"/> | Backhoe | Type: | <u>Cat 420</u> |
| <input type="checkbox"/> | Trackhoe | Type: | _____ |
| <input type="checkbox"/> | Scaper/Grader | Type: | _____ |
| <input checked="" type="checkbox"/> | Trailers | Quantity/Type: | <u>Trailers (lowboys) to mobilize equipment</u> |
| <input checked="" type="checkbox"/> | Portable Toilet | Quantity: | <u>One (1)</u> |
| <input checked="" type="checkbox"/> | Other | List: | <u>Fuel and lube truck, wheel loader, mud system tank</u> |
| | | | _____ |
| | | | _____ |
| | | | _____ |

F. Roads and Overland Travel:

Access to the project is provided via the existing road in Graveyard Gulch, an ephemeral drainage. Use of this existing road for access should not impact this ephemeral drainage feature. There are no other natural surface water features in the project area and the project will have no direct surface impact on wetlands, springs, perennial or intermittent streams, lakes, rivers, reservoirs, or riparian areas.

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

Description of <i>NEW</i> Roads	Length (ft.)	Width (ft.)	Total Acres (length x width x 0.0000229)
USFS 4056N to DP8B	90.644	10.000	0.021
DP6/DP7 Access	985.938	10.000	0.226
DP10 Access	4,128.365	10.000	0.945
TOTAL ACRES DISTURBED BY NEW ROAD CONSTRUCTION :			1.192

Describe how new roads will be constructed:

New road construction will be completed using heavy equipment such as a bulldozer, wheel loader, backhoe, and track excavator. Equipment and operations will be maintained with light service vehicles (pick-ups), water tender, and lube/fuel truck. Construction will be located to minimize disturbance to land and wildlife and enhance stability. Road stability will be maintained by following the land contour to the extent possible and using good road building practices such as constructing water turn-outs and water bars at suitable intervals. Road construction and widening locations have been selected to make use of natural features such as shelves and to avoid drainages, excessively steep slopes, and loose soil material. To ensure good engineering methods are employed, the BLM/USFS Gold Book for road construction will be consulted. If it is necessary for road construction or widening to be conducted in loose soil or tailings, adequate steps will be taken to ensure road stability. Steps may include the import of rip-rap and filter fabric to stabilize soil and avoid head-cuts, and the frequent installation of water bars.

List for extension or widening of existing roads:

Description of Modification to <i>EXISTING</i> Roads	Length (ft.)	Width (ft.)	Total Acres (length x width x 0.0000229)
DP4 Access	1,404.304	10.00	0.322
TOTAL ACRES DISTURBED BY ROAD IMPROVEMENTS :			0.322

Describe how existing roads will be extended or widened:

Existing road construction and widening will be completed using heavy equipment such as a bulldozer, wheel loader, backhoe, and track excavator. Equipment and operations will be maintained with light service vehicles (pick-ups), water tender, and lube/fuel truck. Construction will be located to minimize disturbance to land and wildlife and enhance stability. Road stability will be maintained by following the land contour to the extent possible and using good road building practices such as constructing water turn-outs and water bars at suitable intervals. Road construction and widening locations have been selected to make use of natural features such as shelves and to avoid drainages, excessively steep slopes, and loose soil material. To ensure good engineering methods are employed, the BLM/USFS Gold Book for road construction will be consulted. If it is necessary for road construction or widening to be conducted in loose soil or tailings, adequate steps will be taken to ensure road stability. Steps may include the import of rip-rap and filter fabric to stabilize soil and avoid head-cuts, and the frequent installation of water bars.

List for routes of overland travel:

Description of <i>OVERLAND TRAVEL</i> Routes	Length (ft.)	Width (ft.)	Total Acres (length x width x 0.0000229)
No routes of overland travel			
TOTAL ACRES DISTURBED BY OVERLAND TRAVEL :			0

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.

The drill program will be staged from an off-site location. Vehicles and equipment will be parked on existing roads or on permitted drill pads while on-site.

H. TOTAL ACREAGE TO BE DISTURBED BY PROJECT = 1.914 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.

<input checked="" type="checkbox"/> Drilling Mud (i.e., EZ Mud)	Type/Quantity: Hydrous silica of alumina/Wyoming sodium bentonite/sodium montmorillonite/ Performaltrol 930 40-lb buckets.
<input checked="" type="checkbox"/> Diesel Fuel	Quantity: 150 gallons/day/drill
<input checked="" type="checkbox"/> Down-hole Lubricants	Type/Quantity: Rod grease – 17kg pails
<input checked="" type="checkbox"/> Lost Circulation Materials	Type/Quantity: Kwik-Plug
<input checked="" type="checkbox"/> Oils/Grease	Quantity: 5 gallons
<input checked="" type="checkbox"/> Gasoline	Quantity: 5 to 10 gallons/day
<input checked="" type="checkbox"/> Hydraulic Fluid	Quantity: 10 gallons
<input type="checkbox"/> Ethylene Glycol	Quantity: _____
<input checked="" type="checkbox"/> Cement	Type/Quantity: Portland II – 65 50-lb bags
<input checked="" type="checkbox"/> Water	Source: Water tender
<input checked="" type="checkbox"/> Bentonite	Quantity: Quick Gel – 65 50-lb bags
<input type="checkbox"/> Fertilizer	Type/Quantity: _____
<input type="checkbox"/> Other	Type/Quantity: _____

B. Describe, in detail, a plan for the containment, use and disposal of all chemicals listed above: The proposed drilling program will not use cyanide, solvents, laboratory agents or mill processing. Drill samples will be taken off-site for analysis. The drilling fluid/mud is not considered hazardous and will be contained in an appropriately labeled aboveground mobile storage tank. Any lubricants or hydraulic fluids needed for operations will be stored in small quantities within vehicles in clearly labeled containers. It is not anticipated that significant quantities of hazardous or toxic substances will be used during the proposed exploration project.

C. Describe where equipment fueling/refueling will occur: Fuel for heavy equipment and the drill rig will be brought on-site in clearly labeled fuel tanks, mounted in the bed of a 4x4 pickup. Smaller more mobile equipment will be fueled off-site. Any lubricants or hydraulic fluids needed for operations will be stored in small quantities within vehicles in clearly labeled containers.

D. Describe how hazardous material spills/leaks will be handled: Spill kits will be maintained on-site within designated vehicles and on the drilling rig in case of a petroleum product release. A Stormwater Pollution Prevention Plan (SWPPP) will be prepared and initiated prior to the commencement of drilling operations. Personnel on-site will receive training on best management practices (BMPs) outlined in the SWPPP prior to commencing operations. A copy of the SWPPP will be provided to the New Mexico Mining and Minerals Division upon request.

De minimis spills will be cleaned up with absorbent materials and the materials will be disposed of properly. Petroleum contaminated soils will be removed and taken to a certified disposal location. Reportable spills will be reported to the Environmental Protection Agency Spill Reporting Center and the New Mexico Environment Department.

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.): 211 ft. TDS concentration (mg/L): 200 mg/L to 330 mg/L.

Describe the source of this information:

New Mexico State Engineer's W.A.T.E.R.S website PLSS Search: Section(s) 28, 33 Township: 10S Range: 19W (<http://nmwrrs.ose.state.nm.us/meterReport.html>).

New Mexico Bureau of Geology & Mineral Resources website, Water Resources, Total Dissolved Solids (TDS) in New Mexico Well Water (<https://geoinfo.nmt.edu/resources/water/chemistry/tds.html#:~:text=The%20maximum%20concentration%20level%20set,mg%2F%20are%20considered%20brackish.>)

Historic Mining References

-1920. Scott, D. B., Ore deposits of the Mogollon district: Am. Inst. Min. Eng. Trans., vol. 63, pp. 289-310, 1920.

-1927. Ferguson, Geology and Ore Deposits: U.S.G.S. Bulletin 787 <https://geoinfo.nmt.edu/resources/water/projects/home.cfm?id=105>

Land, Lewis, 2016, Overview of Fresh and Brackish Water Quality in New Mexico - San Agustin Basin, Project Summary Sheet.

Land, Lewis, 2016, Overview of Fresh and Brackish Water Quality in New Mexico, New Mexico Bureau of Geology Mineral Resources, Open-file Report, v. 0583, pp. 55.

- B. Will dewatering activities be conducted: Yes No

If yes, please describe: N/A

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

If YES:

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

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

Attachment: Attachments will be provided as part of this revision (copies of the completed WR-07 and WD-08 forms)

D. Exploration Borehole Abandonment

Dry Boreholes

- Dry hole abandonment (option 1): 100% bentonite pellets/chips (i.e. HOLEPLUG® manufactured by Baroid Industrial Products), dropped from surface then hydrated in place according to the manufacturer's recommendations, emplaced from total depth to within 12 feet of the original ground surface, followed by 10 feet of neat cement, followed by 2 feet of topsoil/topdressing.
- Dry hole abandonment (option 2): Neat cement slurry, mixed according to the manufacturer's recommendations, emplaced with a tremie pipe from total depth to within 2 feet of the original ground surface, followed by 2 feet of topsoil/topdressing.
- Dry hole abandonment (option 3): Cement + 6% bentonite slurry, mixed according to the manufacturer's recommendations, emplaced with a tremie pipe from total depth to within 2 feet of the original ground surface, followed by 2 feet of topsoil/topdressing.
- Dry hole abandonment (option 4): High-density bentonite clay ($\geq 20\%$ active solids; i.e. QUIK-GROUT® manufactured by Baroid Industrial Products), mixed according to the manufacturer's recommendations, emplaced with a tremie pipe from total depth to within 12 feet of the original ground surface, followed by 10 feet of neat cement, followed by 2 feet of topsoil/topdressing.
- Dry hole abandonment (option 5): Other materials / describe and justify use:

Wet Boreholes

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

- D. Applicant agrees to contain any water produced from the exploration borehole at the drill site and acknowledges that discharge of this water to a watercourse may be a violation of the Federal Clean Water Act: Yes No
- E. Is any drilling proposed to occur within the channel of any perennial, intermittent, or ephemeral streams? Yes No
- F. Is any drilling anticipated to occur within 100 feet of any perennial, intermittent, or ephemeral streams? Yes No

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

A. Salvage/Preservation of Topsoil

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

Describe how topsoil will be salvaged prior to initiation of exploration activities (check all that apply):

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

B. Erosion Control

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

- Silt fencing Location: Perimeter of drill pads
- Straw wattles Location: _____
- Straw bales Location: Perimeter of drill pads. Certified weed-free.
- Ditches/swales Location: _____
- Berms/dikes/dams Location: Perimeter of drill pads
- Sediment basins Location: _____
- Other or N/A Type/Location: Drill pads will be constructed with no more than a 2% grade to minimize run off. Reconstructed slopes will have a minimal length and gradient. Reclamation of drill pads will include revegetation with native species. Re-vegetation seed rows will be established perpendicular to the slope to minimize erosion.

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: No mud pits, but temporary fences will be installed around shallow cutting sumps. Chain link or high-visibility orange safety fencing will be used.

Describe how the pit perimeter fencing will be installed and secured (i.e., T-posts, wooden stakes, etc.): Temporary sump fences will be secured with either T-posts or wooden stakes depending on fencing material.

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: Yes, a ramp will be constructed for the shallow cutting sumps.

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: Disturbed areas will be returned to their original contour during reclamation as much as practicable. Stockpiled topsoil will be re-applied to the area from which it was removed upon completion of re-contouring disturbed areas. Soil application will be performed with a frontend loader or excavator. The topsoil will be smoothed and scarified to provide a good seed bed. Small seed rows will be created perpendicular to the slope of the land to slow storm water run-off, promote infiltration, and create micro-habitats conducive to seed germination.

Describe how the reclamation of portals, adits, drilling fluid/mud and/or waste pits, shafts, ponds, roads and other disturbances will be performed: Reclamation of drill pads will be conducted upon completion of drilling activities.

Reclamation activities will proceed as described in Section 7.0 Part B. All disturbed areas will be re-contoured, covered with topsoil, prepped, and seeded with a mixture approved by the New Mexico Mining and Minerals Division. Seed mixtures will be certified "Free of Noxious Weeds." Seeding and scarifying will be conducted with the contour, to minimize erosion. Revegetation efforts will be monitored. Areas which fail to establish perennial vegetation will be re-seeded.

Summa Silver Corp. does not anticipate the installation of culverts or construction of bridges as part of the scope of work for the proposed exploration drilling project. If culverts are required, Summa Silver Corp. will provide drawings of the culvert crossing to the New Mexico Mining and Minerals Division. Culverts will not be installed without approval by the Division. If any culverts are installed, they will be removed upon completion of the project or road segment, and the area will be re-contoured and revegetated.

Mine tailing, sludges, and waste rock will not be generated by the exploration drilling project. Care will be taken to avoid disturbing pre-existing structures, adits, shafts, and tailings piles.

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: New Mexico Mining and Minerals Division. Seed mixtures will be certified "Free of Noxious Weeds".

<u>Plant Name</u>	<u>Seeding Rate (lbs./acre)</u>
<u>Blue grama</u>	<u>4.0</u>
<u>Sideoats grama</u>	<u>3.0</u>
<u>Bottlebrush squirrel tail</u>	<u>3.0</u>
<u>Mountain brome grass</u>	<u>2.0</u>
<u>Slender wheatgrass</u>	<u>2.0</u>
<u>Mountain mahogany</u>	<u>2.0</u>

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/disc'd or ripped at a rate of 2 tons per acre, and will be crimped in place
- No mulch is proposed

E. Reclamation Timeline

Applicant/Owner/Operator commits to reclamation of the disturbed area as soon as possible following the completion or abandonment of the exploration operation, unless the disturbed area is included within a complete permit application for a new mining permit:

- Yes No

Anticipated Start of Reclamation:

- 0-30 days after completion of drilling
- 31-60 days after completion of drilling
- Other/specify: Within 90 days of final assay results.

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

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

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

Estimated amount of financial assurance: _____

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.

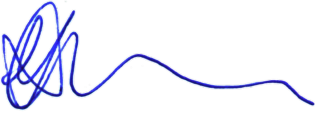
- Money Order/Cashier's Check
- Check

Check Number: 5065

Financial Institution: Wells Fargo Bank

SECTION 9 – CERTIFICATION REQUIREMENT (§302.1.3 & 4)

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



Signature of Permittee or Authorized Agent: _____

Name (type or print): Galen McNamara _____

Title/Position: CEO _____

Date: _____



September 2, 2023

State of New Mexico
Office of the State Engineer
District 3 Office
321 West Spruce Street
Deming, NM 88030

Application for Permit to Drill a Well with No Consumptive Use (WR-07) and Well Plugging Plan of Operations (WD-08)

To Whom it may concern:

Summa Silver has received renewal of its Minimal Impact Exploration permit (CA27EM_R2) from the Minerals and Mining Division. We have also applied for a modification of this permit (Modification 23-1). This letter contains the following for review:

- Forms under MMD Permit CA027EM_R2
 - WR-07 Application for Permit (5 holes)
 - WD-08 Well plugging plan of Operations
 - WD-08M Multiple Monitoring Well Descriptions (5 holes)
- Forms under MMD Permit CA027EM_R2 Modification 23-1
 - WR-07 Application for Permit (10 holes)
 - WR-08M Multiple Monitoring Well Description
 - WD-08 Well plugging plan of Operations
 - WD-08M Multiple Monitoring Well Descriptions (10 holes)
- Excel Document – Well Hole Cement Abandonment Calculation 2023

Currently, Summa has open permits for GSF-0471 POD 10 and POD 14 set to expire on September 30th. We will not be drilling these POD's. If you have any questions or require additional information, please contact me at (618) 263-8664 or email at cyork@summasilver.com.

Sincerely,

Chris York
VP Exploration

File No.

NEW MEXICO OFFICE OF THE STATE ENGINEER



WR-07 APPLICATION FOR PERMIT TO DRILL A WELL WITH NO WATER RIGHT



(check applicable box):

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

Purpose:	<input type="checkbox"/> Pollution Control And/Or Recovery	<input type="checkbox"/> Ground Source Heat Pump
<input type="checkbox"/> Exploratory Well (Pump test)	<input type="checkbox"/> Construction Site/Public Works Dewatering	<input checked="" type="checkbox"/> Other(Describe): Mineral Exploration
<input type="checkbox"/> Monitoring Well	<input type="checkbox"/> Mine Dewatering	
A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.		
<input type="checkbox"/> Temporary Request - Requested Start Date:		Requested End Date:
Plugging Plan of Operations Submitted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

1. APPLICANT(S)

Name: Summa Silver	Name: American Drilling Corp
Contact or Agent: Chris York	Contact or Agent: Austin Augare
check here if Agent <input type="checkbox"/>	check here if Agent <input type="checkbox"/>
Mailing Address: 2552 Hamilton Creek Trl	Mailing Address: 19208 E. Broadway
City: Elko	City: Spokane Valley
State: NV Zip Code: 89801	State: WA Zip Code: 99016
Phone: 618-263-8664 <input type="checkbox"/> Home <input checked="" type="checkbox"/> Cell	Phone: 509-921-7836 <input type="checkbox"/> Home <input type="checkbox"/> Cell
Phone (Work):	Phone (Work):
E-mail (optional): cyork@summasilver.com	E-mail (optional): infoadc@amg1.com

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Application for Permit, Form WR-07, Rev 11/17/16

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

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

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

NM State Plane (NAD83) (Feet)
 UTM (NAD83) (Meters)
 Lat/Long (WGS84) (to the nearest 1/10th of second)

NM West Zone
 Zone 12N
 NM East Zone
 Zone 13N
 NM Central Zone

Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (Quarters or Halves , Section, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
2023_PH01	704960	3698417	T10S R19W Section 28 SE
2023_PH02	704960	3698417	T10S R19W Section 28 SE
2023_PH03	704960	3698417	T10S R19W Section 28 SE
2023_PH04	704960	3698417	T10S R19W Section 28 SE
2023_PH05	704960	3698417	T10S R19W Section 28 SE

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

Other description relating well to common landmarks, streets, or other:
All Holes are approximately 0.5 miles north of Mogollon, NM

Well is on land owned by: Mack, John Jr. and Hott, Ann and Parker, Mary K.

Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. Attached? Yes No
If yes, how many 5

Approximate depth of well (feet): Please see attached excel doc	Outside diameter of well casing (inches): 4.827"
Driller Name: American Drilling Corp/Austin Augare	Driller License Number: WD-1849

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

Summa Silver has received renewal of exploration drilling permit (permit number CA27EM-R2) with the State of New Mexico Energy, Minerals and Natural Resources Department to perform silver exploration on patented mining claims outside of the town of Mogollon, New Mexico. Holes will not be used for withdrawal of water or for water monitoring purposes and will be abandoned within the guidelines of the "Office of the State Engineer Sealant Guidelines for Well Construction and Plugging" upon completion of the hole.

FOR OSE INTERNAL USE

Application for Permit, Form WR-07

File No.:

Trn No.:

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

<p>Exploratory: <input checked="" type="checkbox"/> Include a description of any proposed pump test, if applicable.</p>	<p>Pollution Control and/or Recovery: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for the pollution control or recovery operation. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The annual diversion amount. <input type="checkbox"/> The annual consumptive use amount. <input type="checkbox"/> The maximum amount of water to be diverted and injected for the duration of the operation. <input type="checkbox"/> The method and place of discharge.</p>	<p>Construction De-Watering: <input type="checkbox"/> Include a description of the proposed dewatering operation, <input type="checkbox"/> The estimated duration of the operation, <input type="checkbox"/> The maximum amount of water to be diverted, <input type="checkbox"/> A description of the need for the dewatering operation, and, <input type="checkbox"/> A description of how the diverted water will be disposed of.</p>	<p>Mine De-Watering: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for mine dewatering. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The source(s) of the water to be diverted. <input type="checkbox"/> The geohydrologic characteristics of the aquifer(s). <input type="checkbox"/> The maximum amount of water to be diverted per annum. <input type="checkbox"/> The maximum amount of water to be diverted for the duration of the operation. <input type="checkbox"/> The quality of the water.</p>
<p>Monitoring: <input type="checkbox"/> Include the reason for the monitoring well, and, <input type="checkbox"/> The duration of the planned monitoring.</p>	<p><input type="checkbox"/> The method of measurement of water produced and discharged. <input type="checkbox"/> The source of water to be injected. <input type="checkbox"/> The method of measurement of water injected. <input type="checkbox"/> The characteristics of the aquifer. <input type="checkbox"/> The method of determining the resulting annual consumptive use of water and depletion from any related stream system. <input type="checkbox"/> Proof of any permit required from the New Mexico Environment Department. <input type="checkbox"/> An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.</p>	<p>Ground Source Heat Pump: <input type="checkbox"/> Include a description of the geothermal heat exchange project, <input type="checkbox"/> The number of boreholes for the completed project and required depths. <input type="checkbox"/> The time frame for constructing the geothermal heat exchange project, and, <input type="checkbox"/> The duration of the project. <input type="checkbox"/> Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.</p>	<p><input type="checkbox"/> The method of measurement of water diverted. <input type="checkbox"/> The recharge of water to the aquifer. <input type="checkbox"/> Description of the estimated area of hydrologic effect of the project. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. <input type="checkbox"/> A description of the methods employed to estimate effects on surface water rights and underground water rights. <input type="checkbox"/> Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.</p>

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Chris York (Summa Silver)
 Print Name(s)

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

Chris York
 Digitally signed by Chris York
 Date: 2023.09.02 10:41:54 -07'00'

Applicant Signature

Applicant Signature

ACTION OF THE STATE ENGINEER

This application is:

approved partially approved denied

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

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

_____, State Engineer

By: _____
 Signature

 Print

Title: _____
 Print

FOR OSE INTERNAL USE

Application for Permit, Form WR-07

File No.:	Trn No.:
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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/cgmn/ 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: Summa Silver

Mailing address: 2552 Hamilton Creek Trail County: Elko

City: Elko State: NV Zip code: 89801

Phone number: 618-263-8664 E-mail: cyork@summasilver.com

III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: American Drilling Corp/Austin Augare

New Mexico Well Driller License No.: WD-1849 Expiration Date: 12/5/2024

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):

Wells will be plugged on completion of the hole for mineral exploration. All drill steel and casing is planned for removal.

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? Unknown If yes, provide additional detail, including analytical results and/or laboratory report(s): _____

5) Static water level: 6 - 70 feet below land surface / feet above land surface (circle one)

6) Depth of the well: 2,000 feet

- 7) Inside diameter of innermost casing: 2.50 inches.
- 8) Casing material: Drill steel
- 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? Yes If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? No If yes, please describe:

All drill pipe and casing to be removed on completion
- 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:

Wells will be filled with Type I/II Neat Cement from bottom to top with a tremie pipe to within 2 feet of ground surface and covered with fill dirt.
- 2) Will well head be cut-off below land surface after plugging? Surface casing will be removed

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: See attached forms; WD-08M
- 4) Type of Cement proposed: Type I/II Portland Cement
- 5) Proposed cement grout mix: 5.2 gallons of water per 94 pound sack of Portland cement.
- 6) Will the grout be: batch-mixed and delivered to the site
 X mixed on site

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

None

8) Additional notes and calculations:

Please see attached sheets with Hole volumes and mixes

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

Grout Volumes were calculated at 100% and 110% hole volumes.

VIII. SIGNATURE:

I, Chris York (Summa Silver), 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.

Chris York

Digitally signed by Chris York
Date: 2023.09.02 11:02:10 -07'00'

9/2/2023

Signature of Applicant

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 _____ day of _____,

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

By: _____

TABLE A - For plugging intervals that employ cement grout. 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 grout placement (ft bgl)	Please see attached sheets for hole volumes		
Bottom of proposed interval of grout placement (ft bgl)			
Theoretical volume of grout required per interval (gallons)			
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement			
Mixed on-site or batch-mixed and delivered?			
Grout additive 1 requested			
Additive 1 percent by dry weight relative to cement			
Grout additive 2 requested			
Additive 2 percent by dry weight relative to cement			

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)	Please see attached sheets for hole volumes		
Bottom of proposed sealant of grout placement (ft bgl)			
Theoretical volume of sealant required per interval (gallons)			
Proposed abandonment sealant (manufacturer and trade name)			



NEW MEXICO OFFICE OF THE STATE ENGINEER



ATTACHMENT to WD-08 Plan of Plugging MULTIPLE MONITORING WELL DESCRIPTIONS

This Attachment is to be completed if more than one (1) monitoring well is to be plugged using the same method.

Location (Required):									
<input type="checkbox"/> NM State Plane (NAD83) (Feet) <input type="checkbox"/> NM West Zone <input type="checkbox"/> NM Central Zone <input type="checkbox"/> NM East Zone		<input checked="" type="checkbox"/> UTM (NAD83) (Meters) <input type="checkbox"/> Zone 13N <input checked="" type="checkbox"/> Zone 12N		<input type="checkbox"/> Lat/Long (WGS84) (1/10 th of second)		OTHER (allowable only for move-from descriptions - see application form for format) <input checked="" type="checkbox"/> PLSS (quarters, section, township, range) <input type="checkbox"/> Hydrographic Survey, Map & Tract <input type="checkbox"/> Lot, Block & Subdivision <input type="checkbox"/> Grant			
OSE POD Number:	Other Well ID:	X or Longitude (ddmmss):	Y or Latitude (ddmmss):	Other Location Info (PLSS):	Casing ID- (inches):	Depth to Water- (ft bgs):	Total well Depth- (ft bgs):	Grout Volume:	Surface Casing (Y or N):
	2023_PH01	704960	3698417	T10S R19W Section 28 SE	4.8	unknown	2000	160.9 cubic feet	Y
	2023_PH02	704960	3698417	T10S R19W Section 28 SE	4.8	unknown	2000	160.9 cubic feet	Y
	2023_PH03	704960	3698417	T10S R19W Section 28 SE	4.8	unknown	2000	160.9 cubic feet	Y
	2023_PH04	704960	3698417	T10S R19W Section 28 SE	4.8	unknown	2000	160.9 cubic feet	Y
	2023_PH05	704960	3698417	T10S R19W Section 28 SE	4.8	unknown	2000	160.9 cubic feet	Y

FOR OSE INTERNAL USE Multiple Monitoring POD Descriptions, Form wr-08m (Rev 7/31/19)

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

File No.



NEW MEXICO OFFICE OF THE STATE ENGINEER

WR-07 APPLICATION FOR PERMIT TO DRILL

A WELL WITH NO WATER RIGHT

(check applicable box):

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

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

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

 Temporary Request - Requested Start Date:

Requested End Date:

Plugging Plan of Operations Submitted? Yes No

1. APPLICANT(S)

Name: Summa Silver	Name: American Drilling Corp
Contact or Agent: <input type="checkbox"/> check here if Agent Chris York	Contact or Agent: <input type="checkbox"/> check here if Agent Austin Augare
Mailing Address: 2552 Hamilton Creek Trl	Mailing Address: 19208 E. Broadway
City: Elko	City: Spokane Valley
State: NV Zip Code: 89801	State: WA Zip Code: 99016
Phone: 618-263-8664 <input type="checkbox"/> Home <input checked="" type="checkbox"/> Cell Phone (Work):	Phone: 509-921-7836 <input type="checkbox"/> Home <input type="checkbox"/> Cell Phone (Work):
E-mail (optional): cyork@summasilver.com	E-mail (optional): infoadc@amg1.com

FOR OSE INTERNAL USE

Application for Permit, Form WR-07, Rev 11/17/16

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

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

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

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

Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (Quarters or Halves , Section, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
2023_PH06	704162	3697242	T10S R19W Section 33 SW
2023_PH07	704162	3697242	T10S R19W Section 33 SW
2023_PH08	704162	3697242	T10S R19W Section 33 SW
2023_PH09	704162	3697242	T10S R19W Section 33 SW
2023_PH10	704162	3697242	T10S R19W Section 33 SW

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 5

Other description relating well to common landmarks, streets, or other:
 All Holes are within approximately 0.5 miles of Mogollon, NM

Well is on land owned by: Mack, John Jr. and Hott, Ann and Parker, Mary K.; Allegiant Gold; Mogollon Enterprises Inc

Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. Attached? Yes No
 If yes, how many 10

Approximate depth of well (feet): Please see excel attachment Outside diameter of well casing (inches): 4.827"

Driller Name: American Drilling Corp/Austin Augare Driller License Number: WD-1849

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

Summa Silver has applied for a Modification (23-1) of exploration drilling permit (permit number CA27EM-R2) with the State of New Mexico Energy, Minerals and Natural Resources Department to perform silver exploration on patented mining claims outside of the town of Mogollon, New Mexico. Holes will not be used for withdrawal of water or for water monitoring purposes and will be abandoned within the guidelines of the "Office of the State Engineer Sealant Guidelines for Well Construction and Plugging" upon completion of the hole.

FOR OSE INTERNAL USE

Application for Permit, Form WR-07

File No.:	Trn No.:
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4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

<p>Exploratory: <input checked="" type="checkbox"/> Include a description of any proposed pump test, if applicable.</p>	<p>Pollution Control and/or Recovery: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for the pollution control or recovery operation. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The annual diversion amount. <input type="checkbox"/> The annual consumptive use amount. <input type="checkbox"/> The maximum amount of water to be diverted and injected for the duration of the operation. <input type="checkbox"/> The method and place of discharge.</p>	<p>Construction De-Watering: <input type="checkbox"/> Include a description of the proposed dewatering operation, <input type="checkbox"/> The estimated duration of the operation, <input type="checkbox"/> The maximum amount of water to be diverted, <input type="checkbox"/> A description of the need for the dewatering operation, and, <input type="checkbox"/> A description of how the diverted water will be disposed of.</p>	<p>Mine De-Watering: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for mine dewatering. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The source(s) of the water to be diverted. <input type="checkbox"/> The geohydrologic characteristics of the aquifer(s). <input type="checkbox"/> The maximum amount of water to be diverted per annum. <input type="checkbox"/> The maximum amount of water to be diverted for the duration of the operation. <input type="checkbox"/> The quality of the water.</p>
<p>Monitoring: <input type="checkbox"/> Include the reason for the monitoring well, and, <input type="checkbox"/> The duration of the planned monitoring.</p>	<p><input type="checkbox"/> The method of measurement of water produced and discharged. <input type="checkbox"/> The source of water to be injected. <input type="checkbox"/> The method of measurement of water injected. <input type="checkbox"/> The characteristics of the aquifer. <input type="checkbox"/> The method of determining the resulting annual consumptive use of water and depletion from any related stream system. <input type="checkbox"/> Proof of any permit required from the New Mexico Environment Department. <input type="checkbox"/> An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.</p>	<p>Ground Source Heat Pump: <input type="checkbox"/> Include a description of the geothermal heat exchange project, <input type="checkbox"/> The number of boreholes for the completed project and required depths. <input type="checkbox"/> The time frame for constructing the geothermal heat exchange project, and, <input type="checkbox"/> The duration of the project. <input type="checkbox"/> Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.</p>	<p><input type="checkbox"/> The method of measurement of water diverted. <input type="checkbox"/> The recharge of water to the aquifer. <input type="checkbox"/> Description of the estimated area of hydrologic effect of the project. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. <input type="checkbox"/> A description of the methods employed to estimate effects on surface water rights and underground water rights. <input type="checkbox"/> Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.</p>

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Chris York (Summa Silver)
 Print Name(s)

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

Chris York
 Digitally signed by Chris York
 Date: 2023.09.02 10:41:54 -07'00'

Applicant Signature _____ Applicant Signature _____

ACTION OF THE STATE ENGINEER

This application is:

approved partially approved denied

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

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

_____, State Engineer

By: _____
 Signature _____ Print _____

Title: _____
 Print _____

FOR OSE INTERNAL USE

Application for Permit, Form WR-07

File No.:	Trn No.:
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NEW MEXICO OFFICE OF THE STATE ENGINEER



ATTACHMENT 1 POINT OF DIVERSION DESCRIPTIONS

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

a. Is this a: <input type="checkbox"/> Move-From Point of Diversion(s) <input type="checkbox"/> Move-To Point of Diversion(s)		b. Information on Attachment(s): Number of points of diversion involved in the application: <u>10</u> Total number of pages attached to the application: <u>1</u>	
<input type="checkbox"/> Surface Point of Diversion OR <input checked="" type="checkbox"/> Well			
Name of ditch, acequia, or spring:			
Stream or water course:			
Tributary of:			
c. Location (Required): Required: Move to POD location coordinate must be either New Mexico State Plane (NAD 83), UTM (NAD 83), or Lat/Long (WGS84)			
NM State Plane (NAD83) (feet) NM West Zone <input type="checkbox"/> NM Central Zone <input type="checkbox"/> NM East Zone <input type="checkbox"/>	UTM (NAD83) (meters) Zone 13N <input type="checkbox"/> Zone 12N <input checked="" type="checkbox"/>	<input type="checkbox"/> Lat/Long- (WGS84) 1/10 th of second	OTHER (allowable only for move-from descriptions - see application form for format) <input checked="" type="checkbox"/> PLSS (quarters, section, township, range) <input type="checkbox"/> Hydrographic Survey, Map & Tract <input type="checkbox"/> Lot, Block & Subdivision <input type="checkbox"/> Grant
POD Number: 2023_PH11	X or Longitude 704470	Y or Latitude 3698297	Other Location Description: T10S R19W Section 28 SE
POD Number: 2023_PH12	X or Longitude 704470	Y or Latitude 3698297	Other Location Description: T10S R19W Section 28 SE
POD Number: 2023_PH13	X or Longitude 704470	Y or Latitude 3698297	Other Location Description: T10S R19W Section 28 SE
POD Number: 2023_PH14	X or Longitude 704470	Y or Latitude 3698297	Other Location Description: T10S R19W Section 28 SE
POD Number: 2023_PH15	X or Longitude 704470	Y or Latitude 3698297	Other Location Description: T10S R19W Section 28 SE
POD Number:	X or Longitude	Y or Latitude	Other Location Description:
POD Number:	X or Longitude	Y or Latitude	Other Location Description:
POD Number:	X or Longitude	Y or Latitude	Other Location Description:
POD Number:	X or Longitude	Y or Latitude	Other Location Description:

FOR OSE INTERNAL USE

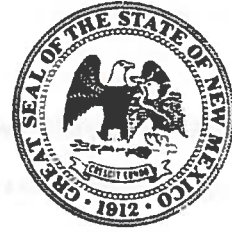
Form wr-08

POD DESCRIPTIONS - ATTACHMENT 1

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



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/cgmn/ 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 ymbg-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: Summa Silver

Mailing address: 2552 Hamilton Creek Trail County: Elko

City: Elko State: NV Zip code: 89801

Phone number: 618-263-8664 E-mail: cyork@summasilver.com

III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: American Drilling Corp/Austin Augare

New Mexico Well Driller License No.: WD-1849 Expiration Date: 12/5/2024

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):

Wells will be plugged on completion of the hole for mineral exploration. All drill steel and casing is planned for removal.

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? Unknown If yes, provide additional detail, including analytical results and/or laboratory report(s): _____

5) Static water level: 6 - 70 feet below land surface / feet above land surface (circle one)

6) Depth of the well: 2,000 feet

- 7) Inside diameter of innermost casing: 2.50 inches.
- 8) Casing material: Drill steel
- 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? Yes If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? No If yes, please describe:

All drill steel and casing to be removed on Completion
- 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:

Wells will be filled with Type I/II Neat Cement from bottom to top with a tremie pipe to within 2 feet of ground surface and covered with fill dirt.
- 2) Will well head be cut-off below land surface after plugging? Surface casing will be removed

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: See attached forms; WD-08M
- 4) Type of Cement proposed: Type I/II Portland Cement
- 5) Proposed cement grout mix: 5.2 gallons of water per 94 pound sack of Portland cement.
- 6) Will the grout be: batch-mixed and delivered to the site
 X mixed on site

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

None

8) Additional notes and calculations:

Please see attached sheets with Hole volumes and mixes

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

Grout Volumes were calculated at 100% and 110% hole volumes.

VIII. SIGNATURE:

I, Chris York (Summa Silver), 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.

Chris York

Digitally signed by Chns York
Date: 2023.09.02 11:02:10 -07'00'

9/2/2023

Signature of Applicant

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 _____ day of _____,

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

By: _____

TABLE A - For plugging intervals that employ cement grout. 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 grout placement (ft bgl)	Please see attached sheets for hole volumes		
Bottom of proposed interval of grout placement (ft bgl)			
Theoretical volume of grout required per interval (gallons)			
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement			
Mixed on-site or batch-mixed and delivered?			
Grout additive 1 requested			
Additive 1 percent by dry weight relative to cement			
Grout additive 2 requested			
Additive 2 percent by dry weight relative to cement			

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)	Please see attached sheets for hole volumes		
Bottom of proposed sealant of grout placement (ft bgl)			
Theoretical volume of sealant required per interval (gallons)			
Proposed abandonment sealant (manufacturer and trade name)			



NEW MEXICO OFFICE OF THE STATE ENGINEER



ATTACHMENT to WD-08 Plan of Plugging MULTIPLE MONITORING WELL DESCRIPTIONS

This Attachment is to be completed if more than one (1) monitoring well is to be plugged using the same method.

Location (Required):									
<input type="checkbox"/> NM State Plane (NAD83) (Feet) <input type="checkbox"/> NM West Zone <input type="checkbox"/> NM Central Zone <input type="checkbox"/> NM East Zone		<input checked="" type="checkbox"/> UTM (NAD83) (Meters) <input type="checkbox"/> Zone 13N <input checked="" type="checkbox"/> Zone 12N		<input type="checkbox"/> Lat/Long (WGS84) (1/10 th of second)		OTHER (allowable only for move-from descriptions - see application form for format) <input checked="" type="checkbox"/> PLSS (quarters, section, township, range) <input type="checkbox"/> Hydrographic Survey, Map & Tract <input type="checkbox"/> Lot, Block & Subdivision <input type="checkbox"/> Grant			
OSE POD Number:	Other Well ID:	X or Longitude (ddmmss):	Y or Latitude (ddmmss):	Other Location Info (PLSS):	Casing ID- (inches):	Depth to Water- (ft bgs):	Total well Depth- (ft bgs):	Grout Volume:	Surface Casing (Y or N):
	2023_PH06	704162	3697242	T10S R19W Section 33 SW	4.8	unknown	2000	160.9 cubic feet	Y
	2023_PH07	704162	3697242	T10S R19W Section 33 SW	4.8	unknown	2000	160.9 cubic feet	Y
	2023_PH08	704162	3697242	TT10S R19W Section 33 SW	4.8	unknown	2000	160.9 cubic feet	Y
	2023_PH09	704162	3697242	T10S R19W Section 33 SW	4.8	unknown	2000	160.9 cubic feet	Y
	2023_PH10	704162	3697242	T10S R19W Section 33 SW	4.8	unknown	2000	160.9 cubic feet	Y
	2023_PH11	704470	3698297	T10S R19W Section 28 SE	4.8	unknown	2000	160.9 cubic feet	Y
	2023_PH12	704470	3698297	T10S R19W Section 28 SE	4.8	unknown	2000	160.9 cubic feet	Y
	2023_PH13	704470	3698297	T10S R19W Section 28 SE	4.8	unknown	2000	160.9 cubic feet	Y
	2023_PH14	704470	3698297	T10S R19W Section 28 SE	4.8	unknown	2000	160.9 cubic feet	Y
	2023_PH15	704470	3698297	T10S R19W Section 28 SE	4.8	unknown	2000	160.9 cubic feet	Y

FOR OSE INTERNAL USE Multiple Monitoring POD Descriptions, Form wr-08m (Rev 7/31/19)

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