Plan of Operations for Mining Activities for National Forest System Lands

---

Golden Crest Project

Northern Hills Ranger District

Black Hills National Forest

Lawrence County, South Dakota

Submitted by:	Walt Hunt	COO	2/8/22
	Signature	**Title**	**Date**
Received by:			
	Signature	**Title**	**Date**

I. GENERAL INFORMATION

A. Name of Mine/Project:

Golden Crest Project

B. Type of Operation:

Lode, Exploration

C. Is this a New Operation or Existing Operation:

New Operation

D. Proposed start-up date of operation:

August 2022

E. Expected total duration of this operation:

Up to Two Years Three Months following Start-Up Date.

F. If seasonal, expected date of annual reclamation/stabilization close out:

November 15

G. Expected date for completion of all required reclamation:

November 15 after closure of field operations.

II. PRINCIPALS

A. Name, address, and phone number of operator:

Solitario Zinc Corp. (herein referred to as Solitario or Operator)

Attn: Mr. Walter Hunt

4251 Kipling Street, Suite 390

Wheat Ridge, Colorado 80033

(303) 534-10300

B. Name, address, and phone number of authorized field representative (if other than the operator):

Mr. Todd Christensen
Project Manager

Solitario Zinc Corp.

3018 10th Avenue

Spearfish, South Dakota 57783

(605) 269-1776

Authorization of field representative to act on behalf of operator is attached.

C. Name, address, and phone number of owners of the claims (if different than the operator):

Golden Crest unpatented lode mining claims numbered 1 through 208 and
Golden Crest unpatented lode mining claims numbered 216 through 241
Golden Crown unpatented lode mining claims numbered 209 through 215
These claims are located in Sections 14, 15, 21, 22, 23, 24, 25, 26, 27, 28, 33, 34, 35 and 36, Township 4 North, Range 1 East of the Black Hills

Meridian and in Section 31, Township 4 North, Range 2 East of the Black Hills Meridian, in Lawrence County, South Dakota. These claims are owned by Golden Crest II, LLC, a Wyoming limited liability company, and the company contact information is:

P.O. Box 1812
Grand Junction, Colorado 81502
(970) 250-4031

Easter unpatented lode mining claims numbered 1 through 27
These claims are located in Section 24, Township 5 North, Range 1 East and Sections 18 and 19, Township 5, North, Range 2 East of the Black Hills Meridian, in Lawrence County, South Dakota. These claims are owned by The Easter Project, LLC, a Wyoming limited liability company, the company contact information is:

630 20 Road
Grand Junction, Colorado 81507
(970) 250 4031

All of the project claims within the area are shown in Figure 1 and listed in Appendix 1 and are either owned by the Operator or listed in Section IIC.

D. Name, address, and phone number of other lessees, assigns, agents, etc., and briefly describe their involvement with the operation, if applicable:

Not Applicable

III. PROPERTY OR AREA

The Golden Crest Project comprises 1,350 unpatented lode claims located in the Northern Black Hills Ranger District of the Black Hills National Forest (BHNF) in Lawrence County, South Dakota. The project area is located in Townships 4 and 5 North, Ranges 1 and 2 East of the Black Hills Meridian. The unpatented claims are listed in Appendix 1.

IV. DESCRIPTION OF THE OPERATION

A. Access.

Figure 1 shows the limits of the unpatented lode claims that consist of the Golden Crest Project area and existing principal access roads to the mineral exploration prospect areas where work is proposed. Principal highways and primary forest service roads are also depicted.

Local access to the project area is provided predominantly by U.S. Forest Service (USFS) Road 134 (i.e., Tinton Road), which runs in a north-south direction through the property. Numerous unmaintained, numbered secondary USFS roads provide additional ingress, as shown in Figures 2 through 4. Other unnumbered logging roads and trails are also present and some are open to motorized travel. Virtually all of the existing access roads shown in Figures 1 through 4 are adequate for entry to the work areas and do not require construction, vegetation removal, or road widening for use. However, berms or boulders have been placed on certain roads to limit public access, as provided in Table 1. Temporary modification of these roads is requested in this Plan of Operations (Plan) to permit passage.

Proposed drilling will be limited by seasonal weather conditions and road closures by the USFS to preserve road integrity. The time frame when roads are open on the property typically extends from approximately May 15 to December 15.

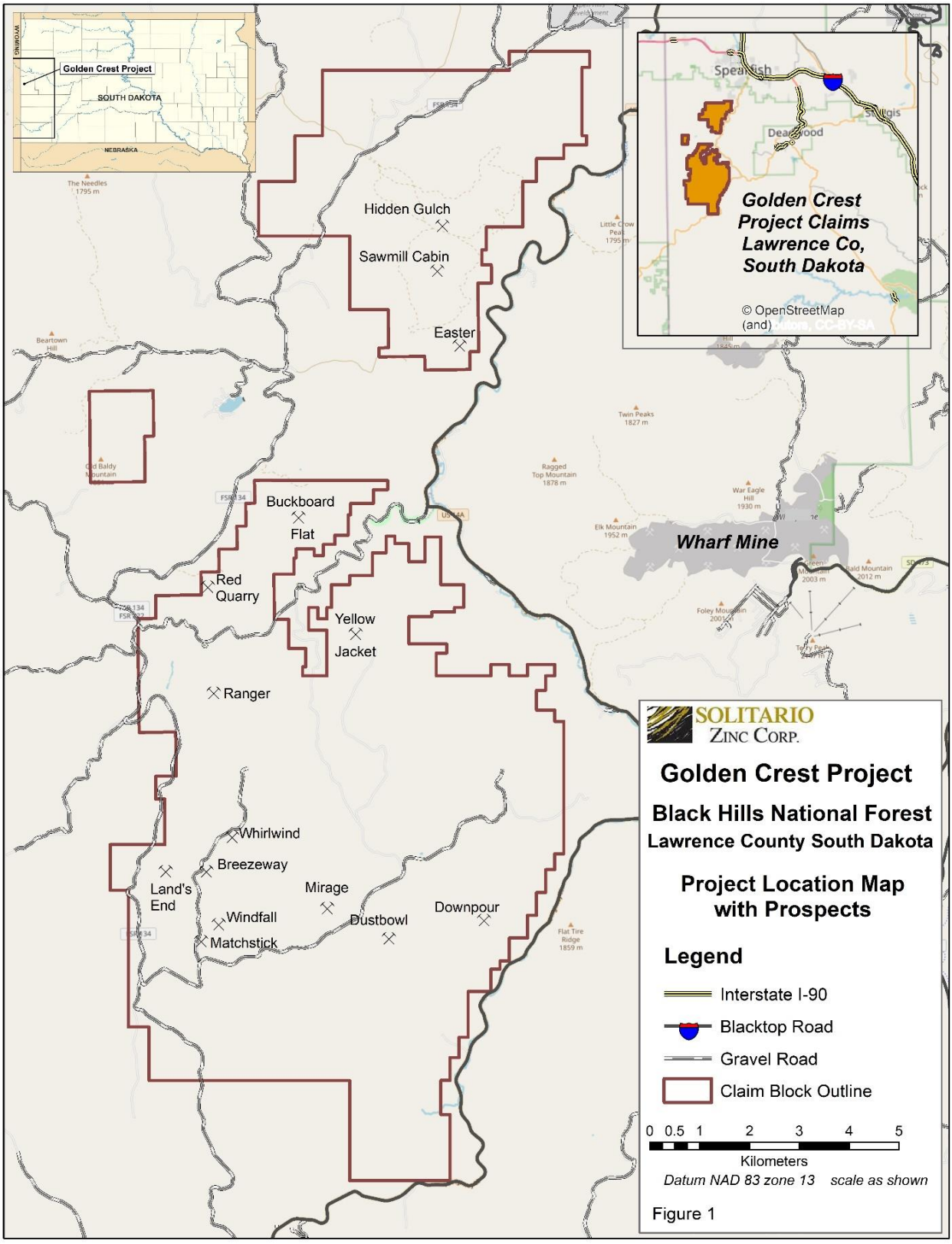
Except for USFS Road 8101, no routine road maintenance is proposed for secondary roads during operation under the Plan. The USFS provides guidance on road usage to protect the roads and Solitario will follow the USFS rules and instructions. If use of roads by the Operator does result in degradation of road conditions, then the Operator commits to performing maintenance, with prior notification and consultation with the USFS, as required to restore the road to preoperational condition.

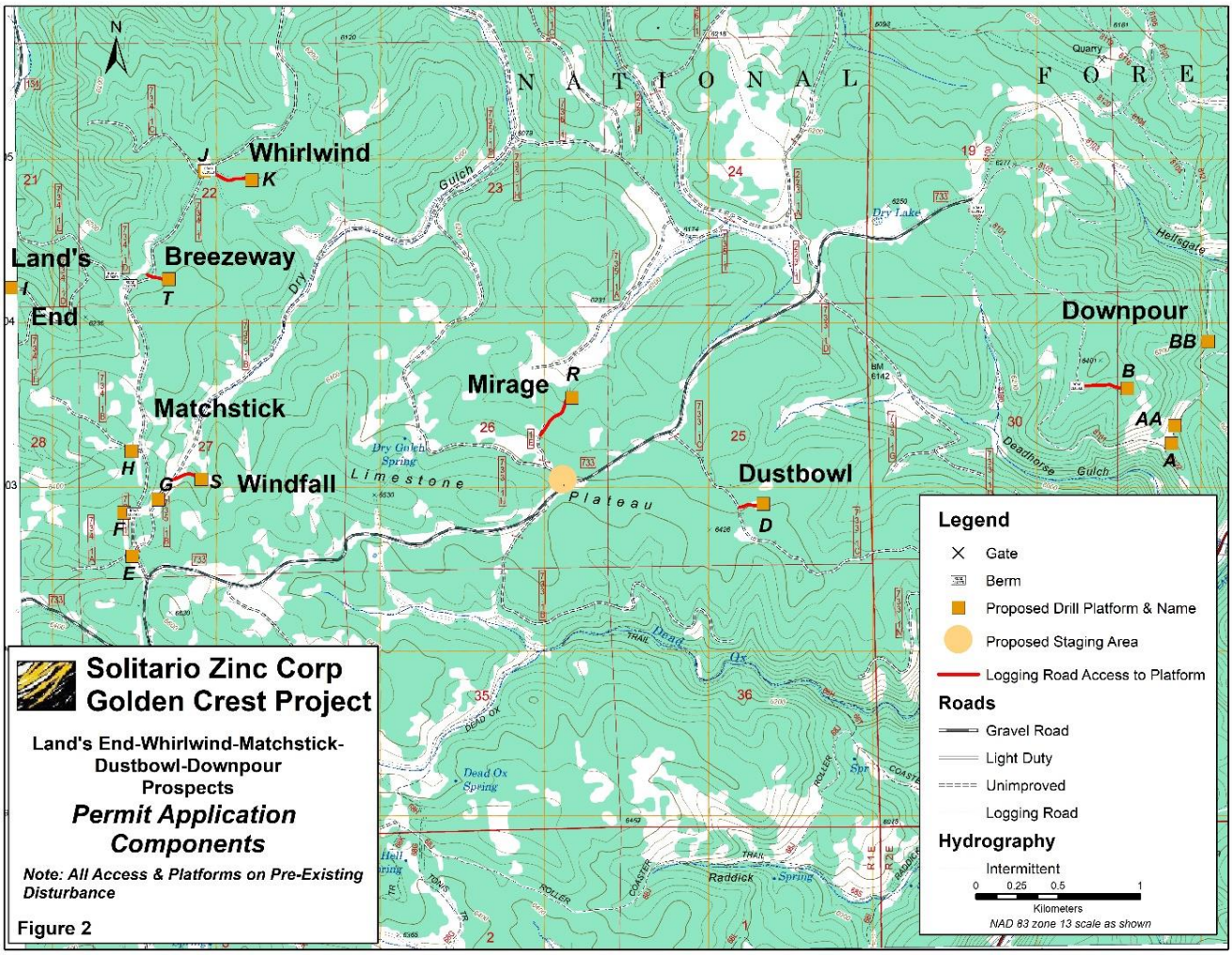
USFS Road 8101, accessed from the Timber Gulch Road (USFS Road 733), is listed as a Special Designation Trail with a vehicle width restriction of 62 inches. As part of this Plan, Solitario seeks a temporary waiver of the vehicle width restriction to allow access for drilling equipment. This road is the only numbered USFS road planned for access use that is in poor condition in several areas. Solitario requests the ability to perform maintenance to improve the road condition before entry to permit safe passage of drill equipment. Maintenance will be restricted to the existing roadbed and no new construction or widening of the roadbed will be required.

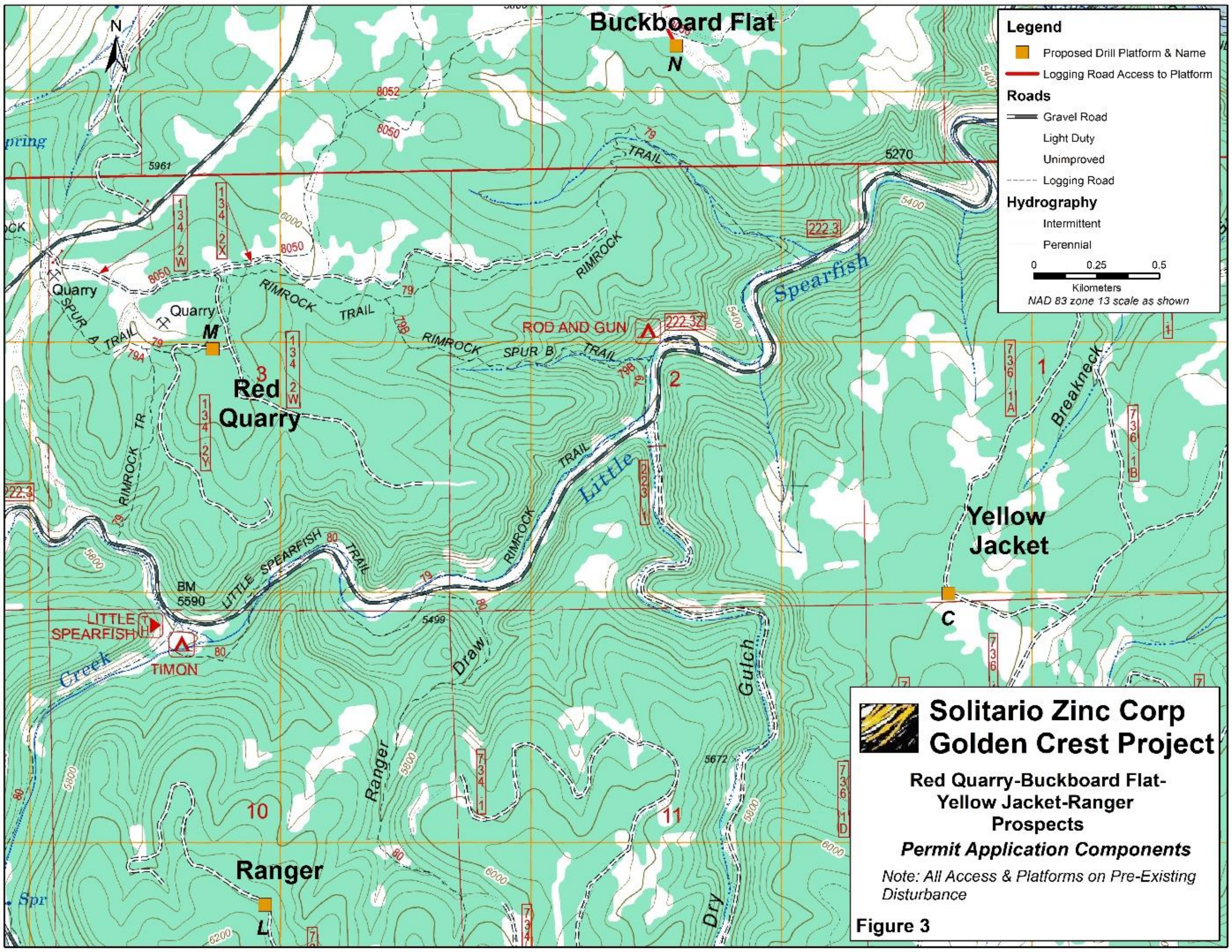
No new construction of roads, bridges, or culverts will be required for operations under this Plan. Vehicles used in the operation of the project are listed in Section IV (D) below.

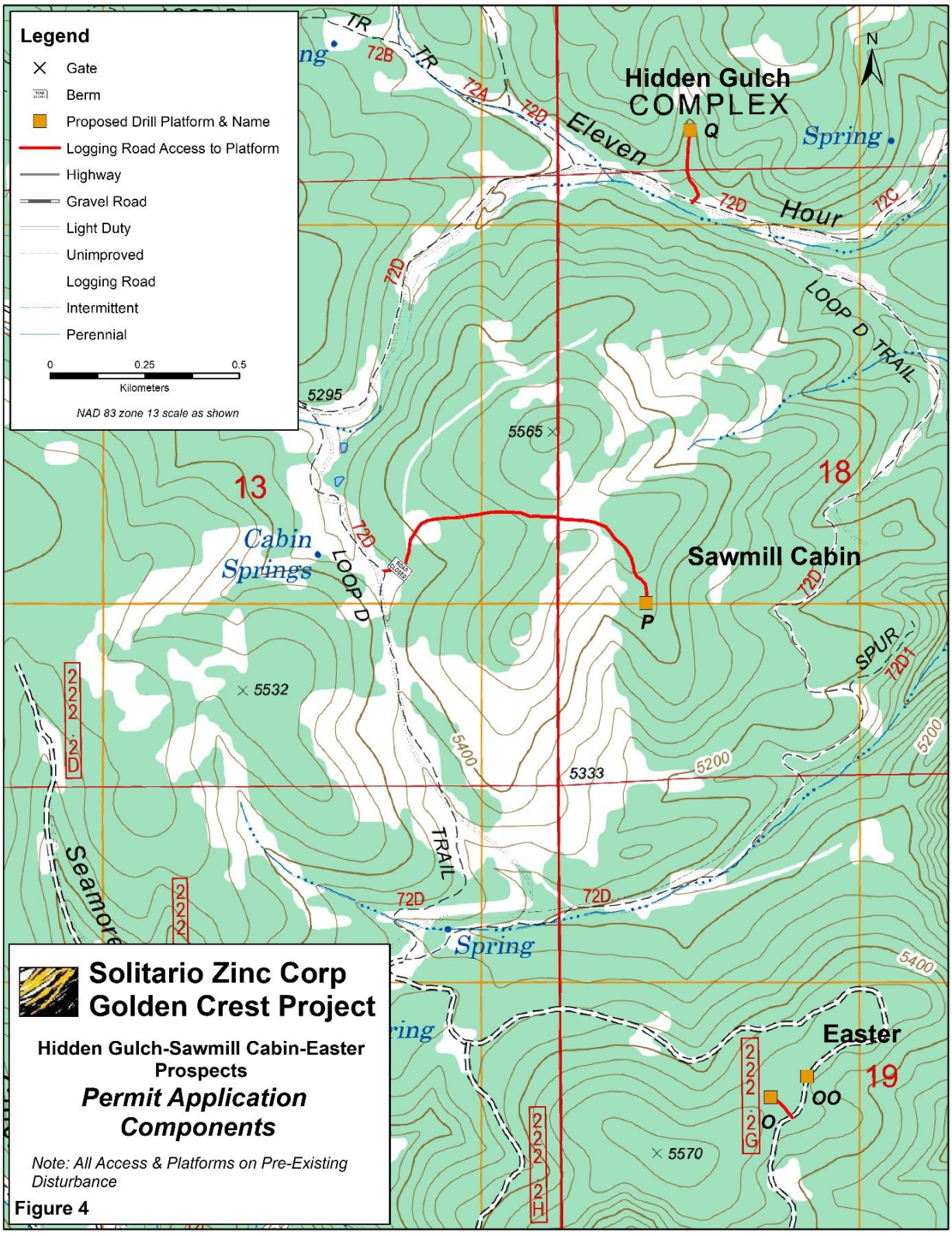
B. Map, Sketch or Drawing.

Figures 1, through 4 show access to the proposed drill sites and a staging area. Figures 2 through 4 show detailed topography and active or intermittent stream courses. All of the drill sites and the staging area are located on existing areas of disturbance that resulted from logging and timber salvage operations.


Golden Crest Project
SOUTH DAKOTA
NEBRASKA
WYOMING
Golden Crest Project Claims Lawrence Co, South Dakota
© OpenStreetMap (and)
Hidden Gulch
Sawmill Cabin
Easter
Buckboard Flat
Red Quarry
Yellow Jacket
Ranger
Wharf Mine
Whirlwind
Breezeway
Land's End
Mirage
Windfall
Matchstick
Dustbowl
Downpour
SOLITARIO ZINC CORP.
Golden Crest Project
Black Hills National Forest
Lawrence County South Dakota
Project Location Map with Prospects
Legend
Interstate I-90
Blacktop Road
Gravel Road
Claim Block Outline
0 0.5 1 2 3 4 5
Kilometers
Datum NAD 83 zone 13 scale as shown
Figure 1


N
Whirlwind
J
K
Land's End
I
Breezeway
T
Matchstick
H
G
S
Windfall
F
E
Mirage
R
Dustbowl
D
Downpour
BB
B
AA
A
Dry Gulch Spring
Limestone Plateau
Dead Ox Spring
Raddick Spring
Dry Lake
Deadhorse Gulch
Hellsgate
Quarry
Dead Ox Trail
Roller Coaster Trail
Solitario Zinc Corp
Golden Crest Project
Land's End-Whirlwind-Matchstick-Dustbowl-Downpour Prospects
Permit Application Components
Note: All Access & Platforms on Pre-Existing Disturbance
Figure 2
Legend
Gate
Berm
Proposed Drill Platform & Name
Proposed Staging Area
Logging Road Access to Platform
Roads
Gravel Road
Light Duty
Unimproved
Logging Road
Hydrography
Intermittent
0 0.25 0.5 1
Kilometers
NAD 83 zone 13 scale as shown


Buckboard Flat
Red Quarry
Yellow Jacket
Ranger
Legend
Proposed Drill Platform & Name
Logging Road Access to Platform
Roads
Gravel Road
Light Duty
Unimproved
Logging Road
Hydrography
Intermittent
Perennial
Kilometers
NAD 83 zone 13 scale as shown
Solitario Zinc Corp
Golden Crest Project
Red Quarry-Buckboard Flat-
Yellow Jacket-Ranger
Prospects
Permit Application Components
Note: All Access & Platforms on Pre-Existing Disturbance
Figure 3


Legend
Gate
Berm
Proposed Drill Platform & Name
Logging Road Access to Platform
Highway
Gravel Road
Light Duty
Unimproved
Logging Road
Intermittent
Perennial
0
0.25
0.5
Kilometers
NAD 83 zone 13 scale as shown
N
Hidden Gulch
COMPLEX
Q
Spring
Eleven
Hour
72D
72C
72B
72A
TR
LOOP D TRAIL
5295
5565
13
18
Cabin
Springs
LOOP D
Sawmill Cabin
P
SPUR
72D1
5532
5400
5200
5333
TRAIL
Seamore
Spring
Easter
19
OO
O
5570
Solitario Zinc Corp
Golden Crest Project
Hidden Gulch-Sawmill Cabin-Easter Prospects
Permit Application Components
Note: All Access & Platforms on Pre-Existing Disturbance
Figure 4

Drill sites are positioned beside and along secondary roads that were previously constructed for logging activities. These sites are located where logging equipment used flat, wide areas along access roads for staging and storage of equipment (such as skidders and dozers), turnarounds for logging trucks and light trucks, and laydown areas for storage of equipment and cut timber before being loaded for transport.

These areas previously used in logging activities will be used under this Plan for the drill sites where the drill hole, drill rod storage, and parking/turnaround sites for the water truck and light vehicles will be located. After drilling is completed at the drill sites, the pad will be recontoured (if needed), seeded, and mulched during final reclamation, as described in Section V(I). All of the drill sites, staging area, and USFS roads used for access are listed in Table 1.

Table 1 Proposed Drill Sites, Staging Area, and Existing Access Roads

PLAT_ID	Easting*	Northing	Elevation (m)	Prospect	USFS Road ID	Remarks
PLAT_A	586820	4903267	1850	Downpour	8101	rock berm
PLAT_AA	586840	4903376	1851	Downpour	8101	rock berm
PLAT_B	586552	4903602	1935	Downpour	8101	rock and soil berm
PLAT_BB	587044	4903887	1841	Downpour	8101	rock berm
PLAT_C	583667	4908994	1840	Yellow Jacket	736.1	
PLAT_D	584331	4902899	1957	Dustbowl	733.1C	
PLAT_E	580487	4902579	1986	Matchstick	734.1A	
PLAT_F	580436	4902845	1980	Matchstick	734.1	soil berm
PLAT_G	580645	4902926	1959	Matchstick	735.1B	
PLAT_H	580483	4903220	1973	Matchstick	734.1B	
PLAT_I	579749	4904216	1916	Land's End	734.1D	two rock berms
PLAT_J	580928	4904926	1934	Whirlwind	734.1	
PLAT_K	581217	4904871	1935	Whirlwind	734.1	soil berm
PLAT_L	580939	4907751	1859	Ranger	734 2A	
PLAT_M	580730	4909971	1840	Red Quarry	134 2Y	
PLAT_N	582580	4911181	1798	Buckboard Flat	8051	
PLAT_O	585764	4914697	1680	Easter	222 2G	
PLAT_OO	585861	4914753	1672	Easter	222 2G	
PLAT_P	585436	4916002	1661	Sawmill Cabin	222 2F 72D Loop D	rock and soil berm
PLAT_Q	585552	4917250	1581	Hidden Gulch	222 2F	
PLAT_R	583166	4903545	1918	Mirage	733.1E	
PLAT_S	580907	4903049	1947	Windfall	735.1B	
PLAT_T	580709	4904268	1952	Breezeway	734.1	
Staging Area	583110	4903050	1957	Staging Area	733.1H	behind USFS gate

*Datum NAD 83 Zone 13
m = meters.

C. Project Description:

Describe all aspects of the operation including mining, milling, and exploration methods, materials, equipment, workforce, construction and operation schedule, power requirements, how clearing will be accomplished, topsoil stockpile, waste rock placement, tailings disposal, proposed number of drillholes and depth, depth of proposed suction dredging, and how gravels will be replaced, etc. Calculate production rates of ore. Include justification and calculations for settling pond capacities, and the size of runoff diversion channels.

The primary purpose of this Plan is to provide documentation and support for a request for authorization of a program of core drilling or reverse circulation drilling to test for subsurface gold mineralization on the Golden Crest property. Twenty-three potential drill sites and one staging area are shown in Figures 2 through 4. One to two truck, track or skid mounted drill rigs, are planned to be used. Of the proposed twenty-three sites some may not be used depending on results of drilling previous holes.

No subsurface information is currently available within the project area, so exact depths of drill holes are unknown until drilling occurs. An estimate of the average required depth of drill holes is 400 m, based on surface geology and knowledge of local stratigraphy. However, depending on the geology encountered in each hole, the Operator will have equipment on hand to drill to a maximum depth of 500 m. If mineralization is encountered in an initial drill hole on a drill site, up to four additional angled holes may be drilled from the same site to better define the geometry of geologic features.

The general stratigraphy of the area is provided in Figure 5. The sedimentary rocks of the prominent cliff-forming Pahasapa Formation of Mississippian age (regionally known as the Madison Formation) underlie much of the area and consist predominantly of limestones. Below the Pahasapa Formation is a sequence of thinner carbonates, siltstones, and shales of Ordovician age. The lowermost sedimentary formation is the Cambrian Deadwood Formation that comprise mixed limestones, shales, and sandstones. The thickness of the entire sedimentary sequence is between 350 and 400 m. Intrusive, nearly horizontal Tertiary age sills are also known in the region but their thickness and location, if present, are unknown within the project boundary.

Drill holes to test for indications of mineralization are planned to penetrate the Precambrian-age metamorphic rocks that underlie the Paleozoic and Tertiary rocks. Generally, only 20 to 50 m of Precambrian rock is planned to be drilled. Holes may penetrate greater depths of the Precambrian stratigraphy if alteration or mineralization is encountered.

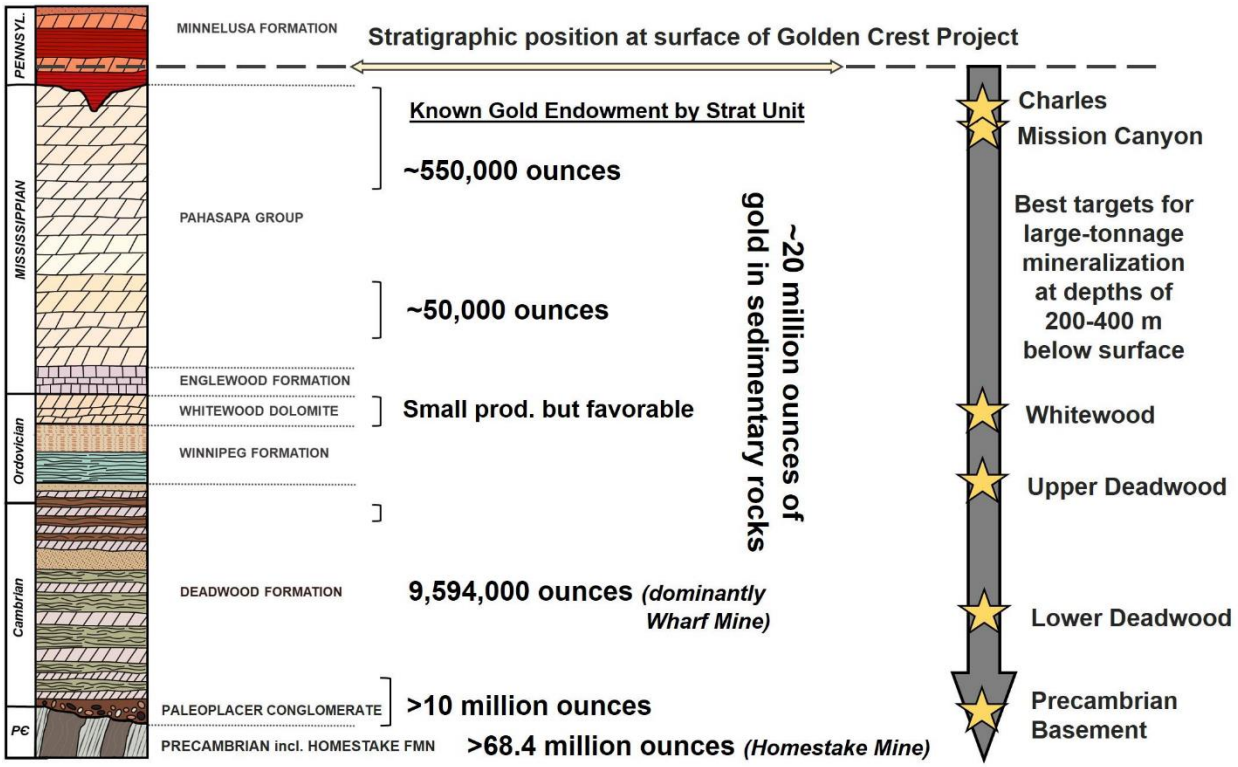


Figure 5. Stratigraphic Column of the Rocks at the Golden Crest Project

The Pahasapa and Cambrian Deadwood Formations and the Precambrian rocks are known to be aquifers at some locations in the region. Final drill hole closure requirements will prevent cross-aquifer contamination. Based on drill hole logs of water wells in the area, the hydrostatic water level is below all of the proposed drill collar elevations.

No petroleum is present in the rocks expected to be encountered on the property.

Construction of new access roads or drill sites on previously undisturbed land will not be required nor will clearing of trees or other vegetation. However, Solitario requests to move or modify berms and/or large boulders that are used to block access to some roads to access the drill sites as noted in Table 1. Drill sites have been sited to take advantage of gentle topography within areas of previous disturbance at each site. The drill sites will require little or no modification of the previously disturbed surface to accommodate access for the drill rig, water truck, fresh water and recirculation tanks, as well as the potential sump installation for the settling and burial of particulates from drill water. Final closure and reclamation of the site is described in Section V(I). The choice of sites with gentle topography was also preferred to reduce reclamation complexity.

The previous commercial logging operations were conducted under timber sales, some of which were salvage operations of trees damaged during the Stateline Tornado on July 6, 2020. Numerous logging roads, skid paths, staging areas and laydown sites were constructed by dozers and skidders for use in these logging activities. The terrain within the project area where the drill holes are proposed is mostly flat or gently rolling. Photographs of typical drill sites are provided in Appendix 2.

Little or no formal recontouring or revegetation of the existing logging related disturbance is assumed to have been performed after logging was complete.

The Plan proposes to exclusively use these same unreclaimed areas of constructed access for the proposed drill sites. After completion of the drill program, this Plan proposes to recontour the drill sites and mulch and reseed these areas to improve the affected locations, as described in the following paragraphs and in Section V(I). This recontouring is designed to enhance the locations' natural conditions in comparison to the current status of the land.

The condition of the current surface in many of the proposed sites is currently rough because of previous mechanical disturbance by dozers, skidders, and logging trucks as well as the lack of recontouring. Other less disturbed sites may not benefit from recontouring. After drilling, all of the sites used under this Plan will be assessed in cooperation with USFS personnel and recontoured as recommended before mulching and reseeding.

Most of the topsoil on the proposed drill sites has been removed or disturbed by previous operations. If remnants of topsoil remain that can be selectively reclaimed within the drill sites, then the topsoil will be segregated and stockpiled for use in final closure as described in Section V(I).

The proposed drill sites have been chosen based specifically on both geologic potential and on minimal visual and operational impacts. The drill site locations along the logging roads will not interfere with traffic on maintained primary USFS roads and will have minimal impact to forest visitors using off-road vehicles. Visual impacts will be minimized by selection of drill sites that are not visible from paved roads or permanent structures, as discussed in Section V 5(C). Other alternate sites were evaluated during selection of the proposed sites. The location of these other sites and analysis of suitability will be discussed in a separate document.

Drilling will occur during one or two shifts per day, 5 to 7 days per week. If drilling is conducted after dark, two portable generator-powered light plants will be used to supply adequate lighting for the work site, as described in Section V5(D).

Water required for core drilling will be sourced from either municipal or privately owned water supplies in the Lead/Deadwood area or, if approved, from one or more existing water wells on USFS property. Water will be transported to and stored in a free-standing surface tank or bladder at or near drill sites and may be pumped or gravity fed to the point of use. Water from distant sources, such as municipal wells, will be delivered by water truck to the storage tank.

Drill water will be stored and recirculated from a series of two to three free-standing holding tanks at the drill sites or a lined sump where drill solids will be separated by gravitational settling before reuse. Upon a drill site closure, the drill solids will be buried in a lined sump, mulched, and seeded, as described in Section V(I) below.

Both drilling and water haulage will be performed by contractors.

Drill core or reverse circulation drill cuttings will be transported as necessary from the Drill site by pickup truck to the Solitario office in Spearfish, South Dakota, where the samples can be logged and prepared for analysis.

No mining or processing of mining products will occur on the project.

Personnel required at a drill site will include the following employees or contactors during one or two shifts:

- Driller
- One to three drill helpers
- Geologist
- Water truck driver (part time, as required)
- Consultant to conduct geologic, engineering, or surveying studies on drill holes (as required)
- Drilling and/or Operator supervisor (occasional).

Solitario commits to following all of the South Dakota laws and statues concerning drill hole plugging and abandonment and would install a full cement grout where needed, such as in any instance where aquifer cross contamination is possible. All of the exploration drill holes will be plugged in accordance with Administrative Rules of South Dakota (ARSD) 74:11:08 and South Dakota Codified Law (SDCL) 45-6C-28 through 45-6C-30. The drill holes are planned to penetrate the Pahasapa (Madison) and Cambrian Deadwood sedimentary formations and the older Precambrian rocks, which are water-bearing units or aquifers in some locations of the Black Hills. If an aquifer is penetrated, the completed exploration drill holes will be plugged from bottom to top using bentonite grout, which complies with the requirements of ARSD 74:11:08:05 and ARSD

74:11:08:05:01 (i.e., requirements for plugging exploration drill holes that penetrate single unconfined aquifers and confined or multiple aquifers). If a confined aquifer is penetrated, the weight of the bentonite grout column would be either sufficient to overcome formation pressure or the hole will be plugged using cement grout. The collar elevations of the planned holes are higher than the static water level to be encountered in the exploration holes; therefore, no natural artesian discharge from drill holes is anticipated.

Records regarding aquifers encountered during drilling and the plugging methods used will be recorded and retained for each exploration hole and those records would be provided to the South Dakota Department of Agriculture and Natural Resources (DANR) at the end of exploration. All exploration drill holes are planned to be plugged immediately upon completion while the drill rig is still on the site. If a drill hole temporarily needs to remain open, a temporary surface plug will be emplaced. If a hole needs to remain open for more than 30 days, Solitario will apply for an alternate plugging schedule to temporarily keep the hole open.

No mining or processing of ore or storage of tailings is proposed under this plan.

D. **Equipment and Vehicles.**

Each Drill Site may require a maximum of the following equipment during active operation:

Motorized:

- One core or reverse circulation drilling rig with auxiliary compressor
- Two or more pickup trucks
- One water truck
- One small dozer for repositioning of skid mounted rig (if needed)
- One Skid Steer
- One Utility Task Vehicle (UTV).

Stationary:

- Portable toilet
- Drill steel
- Drill rod rack storage

- Water tank or bladder for water storage
- Two to three water recirculation tanks
- Water line and pumps
- Mud pump and tank for mixing drill mud, grout, and cement for drill hole reclamation
- Waste receptacles clearly labeled for trash and recyclables.

Drilling Consumables:

- Diesel fuel used by the drilling rigs will be transported to the drill site in a fuel tank mounted on a pickup truck and transferred to the fuel tank on the drill rig on site. Pickup trucks may use either diesel fuel or gasoline that will be stored in mounted tanks.
- Gasoline will be used to power water pumps and a generator, if used, at the drill site. Gasoline may be stored in portable containers.
- Drill mud will be used as a high-density additive to drill fluid, which increases viscosity and density of the fluid for increased efficiency of the drilling process and improved recirculation of drill water.
- Grout will be used as a high-viscosity or cemented material used to prevent drill water from penetrating the adjacent rock, to fix the drill casing into the hole or to reclaim drill holes upon completion.
- Absorbent wipes for cleanup will be used for spill confinement.
- Fuel or other hazardous materials stored at either the staging area or drill rig will be placed on a flat platform with a raised berm around the perimeter then lined with a geomembrane to mitigate a spill or leakage event. The containment area will be sufficiently sized to accommodate a 100 percent spill.

E. Structures

No fixed structures are proposed under this plan. Stationary mobile equipment was described in Section IV(D).

V. ENVIRONMENTAL PROTECTION MEASURES (SEE 36 CFR 228.8)

A. Air Quality

The maximum daily vehicle trips to and from the drill site are eight per shift; however, the estimated average is three per shift. To minimize fugitive dust from vehicle travel on primary and secondary USFS roads on the project, vehicles will be required to observe a speed limit of 25 miles per hour (mph). Minimizing the number of trips to the project area will also lower the generation of dust.

No open burning Is proposed in this Plan.

Operation of all of the equipment, including vehicles, drill rig, generators, and pumps, will be conducted in accordance with manufacturer's operating specifications. No modifications of any equipment will be made that will alter the emissions of equipment used on site.

B. Water Quality. *State how applicable state and federal water quality standards will be met. Describe measures or management practices to be used to minimize water quality impacts and meet applicable standards. State whether water is to be used in the operation, and describe the quantity, source, methods and design of diversions, storage, use, disposal, and treatment facilities. Include assumptions for sizing water conveyance or storage facilities.*

Water will be used in drilling as a drill lubricant and coolant as well as to evacuate drill cuttings from the drill face. The amount of water to be used will be determined by the permeability of the geologic formations encountered in a drill hole. Water will be recirculated to the extent possible.

Water will be transported to the site from private or public sources depending on availability, either from a local water well or public source. A water truck will transport water to the site and deposit the water into an on-site tank or bladder for storage. Water usage is estimated to range from 5,000 to 10,000 gallons per day; however, if circulation of drill water is lost, up to 1,000 gallons per hour may be required until circulation can be reestablished.

Water will be recirculated during drilling whenever possible and placed in either a lined sump or a series of two to three contained water settling tanks so that drill cuttings can be segregated by gravity from the liquid and the fluid can be reused.

Upon completion of each drill hole, the hole will be plugged in accordance with state standards as prescribed in Section V(I) to prevent cross aquifer contamination.

Surface water will be controlled to prevent erosion, as described in Section V(B)(2). No active or intermittent streams exist near any of the drill sites in which uncontrolled surface water can enter; however, in areas of gentle to moderate slopes near the drill holes, surface water will be contained, as described in Section V(B)(2).

---

2. Describe methods to control erosion and surface water runoff from all disturbed areas, including waste and tailings dumps.

Twenty of the twenty-three planned drill sites are located on flat ground with permeable sandy soils. No mitigation for erosion control is proposed for these flat sites where permeable soils and lack of slopes will naturally prevent uncontrolled runoff. However, if erosion is observed at a site, diversion ditches or erosion control logs will be emplaced to eliminate onflow of water.

Three proposed drill sites (A, AA, and BB) have side slopes of up to a 5 percent grade. Proposed mitigation to minimize erosion on these sites will include using erosion control logs up- and downgradient from the drill site to prevent onflow and runoff of surface water. As necessary, water diversion structures may alternatively be used to divert surface water away from the work site.

---

3. Describe proposed surface water and groundwater quality monitoring, if required, to demonstrate compliance with federal or state water quality standards.

No perennial streams or other water bodies are present at or near any of the drill sites; therefore, no surface water sampling is planned.

Drill holes will be promptly reclaimed and no water monitor wells are located in the project area, therefore, no groundwater monitoring is planned.

Upon completion of a drill hole, plugging will be by backfilling, grouting, or cementing in accordance with state regulations South Dakota Legislative Research Council (SDLRC) – Rule 74:11:08.

4. Describe the measures to be used to minimize potential water quality impacts during seasonal closures or for a temporary cessation of operations.

During seasonal or temporary closures, the surface water hydrology of the drill site will revert to preoperational conditions where no surface water is present near the work areas. However, temporary mitigation measures such as erosion control logs or diversion structures may be left in place during short-term closures as needed for areas with side slopes.

Immediately upon completion of a drill pad's use, the sites will be inspected and all of the tools, supplies, and other foreign materials will be removed. The sites will be monitored throughout the drill program and any unsightly ruts or irregularities in the surface may be modified to minimize erosion. Final closure and reclamation of the drill sites is described in Section V(I).

5. If land application is proposed for wastewater disposal, the location and operation of the land application system must be described. Also describe how vegetation, soil, and surface and groundwater quality will be protected if land application is used.

No land application of wastewater is part of this Plan; however, recirculated water from the drill holes will be settled in tanks or a lined sump, as described in Section V(B)(1). The recirculated water will be reused in drilling after solids are separated by settling in holding tanks. A skid steer will be maintained on site to ensure that excavation of the sump can be completed in a timely manner when needed.

C. Solid Wastes.

All of the solid wastes generated on site will be transported, as needed, to approved solid waste facilities for disposal except for the drill cuttings recovered by gravity separation in settling tanks (i.e., sumps). These cuttings consist of crushed/pulverized rock from the drill hole with a consistency of mud or sand. When separated from the drill water by settling, these solids will reside in a lined sump at site and will be buried, mulched, and seeded during final reclamation.

Human waste will be managed by using portable toilets under contract with a commercial provider. The disposal of this waste will be undertaken by the contractor at a licensed and permitted facility.

D. Scenic Values. *Describe protection of scenic values such as screening, slash disposal, or timely reclamation.*

Proposed drill sites and the staging area are located to avoid visibility from paved roads, permanent structures, dwellings, or developed campgrounds.

If drilling occurs during nighttime hours, then portable light plants will be required for work to safely proceed. To minimize stray light and light pollution, a maximum of two directional light plants will be used on a drill site. Directional lighting will generally minimize unnecessary glare by focusing the light downward on the worksite and away from populated areas to reduce stray light. Shielding of the sides and upward will reduce scattered light skyward and laterally.

F. **Fish and Wildlife**. *Describe measures to maintain and protect fisheries and wildlife, and their habitat (includes threatened, endangered, and sensitive species) affected by the operations.*

- Fisheries: No fisheries exist on the property of this Plan. Erosion controls and mitigation of potential runoff into streams is addressed in Sections V(B)(2) and V(B)(4).
- Wildlife: A desktop evaluation of threatened, endangered, or sensitive wildlife that are potentially present on site will be prepared by a third-party contractor. Mitigation of potential impacts may be recommended.
- Threatened and Endangered (T&E) Species: Desktop biological surveys that include wildlife and botanical studies will be prepared in collaboration with the South Dakota Department of Game, Fish, and Parks (SDGFP) to identify potential T&E species that may occur in the area as well as potential impacts. Based on the results of these studies, the operator will consult with the SDGFP and USFS to assess potential impacts and determine if further studies or recommended mitigations are warranted.

G. **Cultural Resources**. *Describe measures for protecting known historical and archeological values, or new sites in the project area*.

Consultation with the State Historic Preservation Office (SHPO) will be undertaken to determine what studies in the area have been historically conducted and what

archeological sites may have been identified by past work, if any. A Level 1 archeological survey will be completed by a third-party contractor and submitted to the SHPO and USFS. Known sites will be located in the field and planning of project activities will follow recommendations of the State and USFS with regard to protection of historical and cultural resources.

Tribal consultations required under the National Historic Preservation Act will address any known, or the discovery of, Traditional Cultural Properties. Such consultations will occur in compliance with the National Environmental Policy Act (NEPA) and will be initiated by the USFS. During the conduct of exploration activities, Solitario shall avoid bones, artifacts, foundation remains, or other evidence of previously unrecorded past human use. If any artifacts or other archaeological or cultural resources are discovered during exploration activities, activities shall be temporarily halted and the state archaeologist will be notified.

H. Hazardous Substances.

1. Identify the type and volume of all hazardous materials and toxic substances which will be used or generated in the operations including cyanide, solvents, petroleum products, mill, process and laboratory reagents.

2. For each material or substance, describe the methods, volume, and frequency of transport (include type of containers and vehicles), procedures for use of materials or substances, methods, volume, and containers for disposal of materials and substances, security (fencing), identification (signing/labeling), or other special operations requirements necessary to conduct the proposed operations.

3. Describe the measures to be taken for release of a reportable quantity of a hazardous material or the release of a toxic substance. This includes plans for spill prevention, containment, notification, and cleanup.

Solitario will prepare a spill prevention control plan that will describe protocols for avoiding and controlling any spills that could occur on site under this Plan. This Plan will incorporate any pertinent elements of a Spill Prevention Control and Countermeasure (SPCC) Plan of the BHNF, if such a plan is in place. Training of on-site personnel in the response protocols will be mandatory. The Plan will include a list of quantities and locations of any hazardous materials that will be on site. This list will be submitted to the USFS before operations commence.

I. Reclamation.

Describe the annual and final reclamation standards based on the anticipated schedule for construction, operations, and project closure. Include such items as the removal of structures and facilities including bridges and culverts, a revegetation plan, permanent containment of mine tailings, waste, or sludges which pose a threat of a release into the environment, closing ponds and eliminating standing water, a final surface shaping plan, and post operations monitoring and maintenance plans.

Seasonal (annual) closures will be preceded by stabilization that is designed to prevent erosion at working sites, as described in Section V(B)(4).

The proposed drill sites are located on lands that have been previously disturbed by logging and other activities. Final reclamation of the drill sites and staging area will include the following elements:

- Drill holes will be sealed and reclaimed in accordance with ARSD 74:11:08 and SDCL 45-6C-28 through 45-6C-30.
- Drill sites will be recontoured to eliminate excessive rutting regardless of the pre-project condition.
- Secondary road areas occupied by the drill sites or staging area will be modified by installing water bars or diversion structures, as necessary and depending on the slope of the existing topography, so that post-use erosion is not promoted.
- Drill fluids will be contained in recirculation tanks or a lined sump on the Drill Site to allow solids to settle. The solids will ultimately be disposed of in a buried lined sump before final reclamation.
- Overly compacted areas at the drill sites, turnarounds, and staging area that are not located on an active roadbed will be roughed either manually or mechanically to enhance seeding viability and minimize erosion.
- Areas to be enhanced by reseeding will initially be mulched with locally derived, stockpiled organic-rich amendments or with commercially available certified weed-free mulch. Seeding will be applied in accordance with USFS guidance. The proposed seed mix is provided in Table 2 and is compatible with existing habitat and USFS recommendations.

Table 2 , Reclamation Seed Mix Table: Recommended by USFS Northern Hills District, BHNF

Species	North Zone
Annual rye (*Lolium multiflorum*)	10%
Slender wheatgrass (*Elymus trachycaulus*)	25%
Prairie junegrass (*Koeleria macrantha)*	5%
Western wheatgrass (*Pascopyrum smithii*)	30%
Canada wildrye (*Elymus canadensis*)	30%

Application Rate: 20 Pounds Live Seed/Acre

Noxious weeds will be managed by Solitario in adherence with the USFS's current Noxious Weed Control Plan (NWCP). Solitario will prepare a plan that will include site inspections for noxious weeds and control measures as defined in the NWCP. This Plan will include spraying for weeds 1 year after final reclamation.

Appendix 1
Mineral Claims

CLAIM NAME	Claim Count
BH CLAIMS	***Total BH Claims = 268***
BH1	
BH2	
BH3	
BH4	
BH5	
BH6	
BH7	
BH8	
BH9	
BH10	
BH11	
BH12	
BH13	
BH14	
BH15	
BH16	
BH17	
BH18	
BH19	
BH20	
BH21	
BH22	
BH23	
BH24	
BH25	
BH26	
BH27	
BH28	
BH29	
BH32	
BH33	
BH34	
BH35	
BH36	
BH37	
BH38	
BH39	
BH40	
BH41	
BH42	

BH43	
BH44	
BH45	
BH46	
BH47	
BH48	
BH49	
BH50	
BH51	
BH52	
BH53	
BH54	
BH56	
BH57	
BH58	
BH59	
BH60	
BH61	
BH62	
BH63	
BH64	
BH65	
BH67	
BH68	
BH69	
BH70	
BH71	
BH72	
BH73	
BH74	
BH75	
BH76	
BH77	
BH78	
BH79	
BH80	
BH81	
BH82	
BH83	
BH84	
BH85	
BH86	
BH87	

BH88	
BH89	
BH90	
BH91	
BH92	
BH93	
BH94	
BH95	
BH96	
BH97	
BH98	
BH99	
BH100	
BH101	
BH102	
BH103	
BH104	
BH105	
BH106	
BH107	
BH108	
BH109	
BH110	
BH111	
BH112	
BH113	
BH114	
BH115	
BH116	
BH117	
BH118	
BH119	
BH120	
BH121	
BH122	
BH123	
BH124	
BH125	
BH126	
BH127	
BH128	
BH129	
BH130	

BH131	
BH132	
BH133	
BH134	
BH135	
BH136	
BH137	
BH138	
BH139	
BH140	
BH141	
BH142	
BH143	
BH144	
BH145	
BH 146	
BH 147	
BH 148	
BH 149	
BH 150	
BH 151	
BH 152	
BH 153	
BH 154	
BH 155	
BH 156	
BH 157	
BH 158	
BH 159	
BH 160	
BH 161	
BH 162	
BH 163	
BH 164	
BH 165	
BH 166	
BH 167	
BH 168	
BH 169	
BH 170	
BH 171	
BH 172	
BH 173	

BH 174	
BH 175	
BH 176	
BH 177	
BH 178	
BH 179	
BH 180	
BH 181	
BH 182	
BH 183	
BH 184	
BH 185	
BH 186	
BH 187	
BH 188	
BH 189	
BH 190	
BH 191	
BH 192	
BH 193	
BH 194	
BH 195	
BH 196	
BH 197	
BH 198	
BH 199	
BH 200	
BH 201	
BH 202	
BH 203	
BH 204	
BH 205	
BH 206	
BH 207	
BH 208	
BH 209	
BH 210	
BH 211	
BH 212	
BH 213	
BH 214	
BH 215	
BH 216	

BH 217	
BH 218	
BH 219	
BH 220	
BH 221	
BH 222	
BH 223	
BH 224	
BH 225	
BH 226	
BH 227	
BH 228	
BH 229	
BH 230	
BH 231	
BH 232	
BH 233	
BH 234	
BH 235	
BH 236	
BH 237	
BH 238	
BH 239	
BH 240	
BH 241	
BH 242	
BH 243	
BH 244	
BH 245	
BH 246	
BH 247	
BH 248	
BH 249	
BH 250	
BH 251	
BH 252	
BH 253	
BH 254	
BH 255	
BH 256	
BH 257	
BH 258	
BH 259	

BH 260	
BH 261	
BH 262	
BH 263	
BH 264	
BH 265	
BH 266	
BH 267	
BH 268	
BH 269	
BH 270	
BH 271	
BH 272	
DG CLAIMS	***Total DG Claims = 360***
DG 1	
DG 10	
DG 100	
DG 101	
DG 102	
DG 103	
DG 104	
DG 105	
DG 106	
DG 107	
DG 108	
DG 109	
DG 11	
DG 110	
DG 111	
DG 112	
DG 113	
DG 114	
DG 115	
DG 116	
DG 117	
DG 118	
DG 119	
DG 12	
DG 120	
DG 121	
DG 122	
DG 123	
DG 124	

DG 125	
DG 126	
DG 127	
DG 128	
DG 129	
DG 13	
DG 130	
DG 131	
DG 132	
DG 133	
DG 134	
DG 135	
DG 136	
DG 137	
DG 138	
DG 139	
DG 14	
DG 140	
DG 141	
DG 142	
DG 143	
DG 144	
DG 145	
DG 146	
DG 147	
DG 148	
DG 149	
DG 15	
DG 150	
DG 151	
DG 152	
DG 153	
DG 154	
DG 155	
DG 156	
DG 157	
DG 158	
DG 159	
DG 16	
DG 160	
DG 161	
DG 162	
DG 163	

DG 164	
DG 165	
DG 166	
DG 167	
DG 168	
DG 169	
DG 17	
DG 170	
DG 171	
DG 172	
DG 173	
DG 174	
DG 175	
DG 176	
DG 177	
DG 178	
DG 179	
DG 18	
DG 180	
DG 181	
DG 182	
DG 183	
DG 184	
DG 185	
DG 186	
DG 187	
DG 188	
DG 189	
DG 19	
DG 190	
DG 191	
DG 192	
DG 193	
DG 194	
DG 195	
DG 196	
DG 197	
DG 198	
DG 199	
DG 2	
DG 20	
DG 200	
DG 201	

DG 202	
DG 203	
DG 204	
DG 205	
DG 206	
DG 207	
DG 208	
DG 209	
DG 21	
DG 210	
DG 211	
DG 212	
DG 213	
DG 214	
DG 215	
DG 216	
DG 217	
DG 218	
DG 219	
DG 22	
DG 220	
DG 221	
DG 222	
DG 223	
DG 224	
DG 225	
DG 226	
DG 227	
DG 228	
DG 229	
DG 23	
DG 230	
DG 231	
DG 232	
DG 233	
DG 234	
DG 235	
DG 236	
DG 237	
DG 238	
DG 239	
DG 24	
DG 240	

DG 241	
DG 242	
DG 243	
DG 244	
DG 245	
DG 246	
DG 247	
DG 248	
DG 249	
DG 25	
DG 250	
DG 251	
DG 252	
DG 253	
DG 254	
DG 255	
DG 256	
DG 257	
DG 258	
DG 259	
DG 26	
DG 260	
DG 261	
DG 262	
DG 263	
DG 264	
DG 265	
DG 266	
DG 267	
DG 268	
DG 269	
DG 27	
DG 270	
DG 271	
DG 272	
DG 273	
DG 274	
DG 275	
DG 276	
DG 277	
DG 278	
DG 279	
DG 28	

DG 280	
DG 281	
DG 282	
DG 283	
DG 284	
DG 285	
DG 286	
DG 287	
DG 288	
DG 289	
DG 29	
DG 290	
DG 291	
DG 292	
DG 293	
DG 294	
DG 295	
DG 296	
DG 297	
DG 298	
DG 299	
DG 3	
DG 30	
DG 300	
DG 301	
DG 302	
DG 303	
DG 304	
DG 305	
DG 306	
DG 307	
DG 308	
DG 309	
DG 31	
DG 310	
DG 311	
DG 312	
DG 313	
DG 314	
DG 315	
DG 316	
DG 317	
DG 318	

DG 319	
DG 32	
DG 320	
DG 321	
DG 322	
DG 323	
DG 324	
DG 325	
DG 326	
DG 327	
DG 328	
DG 329	
DG 33	
DG 330	
DG 331	
DG 332	
DG 333	
DG 334	
DG 335	
DG 336	
DG 337	
DG 338	
DG 339	
DG 34	
DG 340	
DG 341	
DG 342	
DG 343	
DG 344	
DG 345	
DG 346	
DG 347	
DG 348	
DG 349	
DG 35	
DG 350	
DG 351	
DG 352	
DG 353	
DG 354	
DG 355	
DG 356	
DG 357	

DG 358	
DG 359	
DG 36	
DG 360	
DG 37	
DG 38	
DG 39	
DG 4	
DG 40	
DG 41	
DG 42	
DG 43	
DG 44	
DG 45	
DG 46	
DG 47	
DG 48	
DG 49	
DG 5	
DG 50	
DG 51	
DG 52	
DG 53	
DG 54	
DG 55	
DG 56	
DG 57	
DG 58	
DG 59	
DG 6	
DG 60	
DG 61	
DG 62	
DG 63	
DG 64	
DG 65	
DG 66	
DG 67	
DG 68	
DG 69	
DG 7	
DG 70	
DG 71	

DG 72	
DG 73	
DG 74	
DG 75	
DG 76	
DG 77	
DG 78	
DG 79	
DG 8	
DG 80	
DG 81	
DG 82	
DG 83	
DG 84	
DG 85	
DG 86	
DG 87	
DG 88	
DG 89	
DG 9	
DG 90	
DG 91	
DG 92	
DG 93	
DG 94	
DG 95	
DG 96	
DG 97	
DG 98	
DG 99	
EC Claims	***Total EC Claims = 130***
EC 1	
EC 10	
EC 11	
EC 12	
EC 13	
EC 14	
EC 15	
EC 16	
EC 17	
EC 18	
EC 19	
EC 2	

EC 20	
EC 21	
EC 22	
EC 23	
EC 24	
EC 25	
EC 26	
EC 27	
EC 28	
EC 29	
EC 3	
EC 30	
EC 31	
EC 32	
EC 33	
EC 34	
EC 35	
EC 36	
EC 37	
EC 38	
EC 39	
EC 4	
EC 40	
EC 41	
EC 42	
EC 43	
EC 44	
EC 45	
EC 46	
EC 47	
EC 48	
EC 49	
EC 5	
EC 50	
EC 51	
EC 52	
EC 53	
EC 54	
EC 55	
EC 56	
EC 57	
EC 58	
EC 59	

EC 6	
EC 60	
EC 61	
EC 62	
EC 63	
EC 64	
EC 65	
EC 66	
EC 67	
EC 68	
EC 69	
EC 7	
EC 70	
EC 71	
EC 72	
EC 73	
EC 74	
EC 75	
EC 76	
EC 8	
EC 9	
EC 100	
EC 101	
EC 102	
EC 103	
EC 104	
EC 105	
EC 106	
EC 107	
EC 108	
EC 109	
EC 110	
EC 111	
EC 112	
EC 113	
EC 114	
EC 115	
EC 116	
EC 117	
EC 118	
EC 119	
EC 120	
EC 121	

EC 122	
EC 123	
EC 124	
EC 125	
EC 126	
EC 127	
EC 128	
EC 129	
EC 130	
EC 77	
EC 78	
EC 79	
EC 80	
EC 81	
EC 82	
EC 83	
EC 84	
EC 85	
EC 86	
EC 87	
EC 88	
EC 89	
EC 90	
EC 91	
EC 92	
EC 93	
EC 94	
EC 95	
EC 96	
EC 97	
EC 98	
EC 99	
LC Claims	***Total LC Claims = 108***
LC 1	
LC 10	
LC 100	
LC 101	
LC 102	
LC 103	
LC 104	
LC 105	
LC 106	
LC 107	

LC 108	
LC 109	
LC 11	
LC 12	
LC 13	
LC 14	
LC 15	
LC 16	
LC 17	
LC 18	
LC 19	
LC 2	
LC 20	
LC 21	
LC 22	
LC 23	
LC 24	
LC 25	
LC 26	
LC 27	
LC 28	
LC 29	
LC 3	
LC 30	
LC 31	
LC 32	
LC 33	
LC 34	
LC 35	
LC 36	
LC 37	
LC 38	
LC 39	
LC 4	
LC 40	
LC 41	
LC 42	
LC 43	
LC 44	
LC 45	
LC 46	
LC 48	
LC 49	

LC 5	
LC 50	
LC 51	
LC 52	
LC 53	
LC 54	
LC 55	
LC 56	
LC 57	
LC 58	
LC 59	
LC 6	
LC 60	
LC 61	
LC 62	
LC 63	
LC 64	
LC 65	
LC 66	
LC 67	
LC 68	
LC 69	
LC 7	
LC 70	
LC 71	
LC 72	
LC 73	
LC 74	
LC 75	
LC 76	
LC 77	
LC 78	
LC 79	
LC 8	
LC 80	
LC 81	
LC 82	
LC 83	
LC 84	
LC 85	
LC 86	
LC 87	
LC 88	

LC 89	
LC 9	
LC 90	
LC 91	
LC 92	
LC 93	
LC 94	
LC 95	
LC 96	
LC 97	
LC 98	
LC 99	
TG CLAIMS	***Total TG Claims = 63***
TG 10	
TG 11	
TG 12	
TG 13	
TG 14	
TG 15	
TG 16	
TG 17	
TG 18	
TG 19	
TG 20	
TG 21	
TG 22	
TG 23	
TG 24	
TG 25	
TG 26	
TG 27	
TG 28	
TG 29	
TG 30	
TG 31	
TG 32	
TG 33	
TG 34	
TG 35	
TG 36	
TG 37	
TG 38	
TG 39	

TG 40	
TG 41	
TG 42	
TG 43	
TG 44	
TG 45	
TG 46	
TG 47	
TG 48	
TG 49	
TG 50	
TG 51	
TG 52	
TG 53	
TG 54	
TG 55	
TG 56	
TG 57	
TG 58	
TG 59	
TG 60	
TG 61	
TG 62	
TG 63	
TG 64	
TG 65	
TG 66	
TG 67	
TG 68	
TG 69	
TG 7	
TG 8	
TG 9	
IRON CLAIMS	***Total IRON Claims = 194***
IRON 1	
IRON 10	
IRON 11	
IRON 111	
IRON 112	
IRON 113	
IRON 114	
IRON 115	
IRON 116	

IRON 12	
IRON 126	
IRON 127	
IRON 128	
IRON 129	
IRON 13	
IRON 130	
IRON 131	
IRON 132	
IRON 133	
IRON 136	
IRON 137	
IRON 138	
IRON 139	
IRON 14	
IRON 140	
IRON 141	
IRON 142	
IRON 143	
IRON 144	
IRON 145	
IRON 146	
IRON 147	
IRON 148	
IRON 149	
IRON 150	
IRON 151	
IRON 152	
IRON 153	
IRON 154	
IRON 155	
IRON 156	
IRON 157	
IRON 158	
IRON 159	
IRON 160	
IRON 161	
IRON 162	
IRON 163	
IRON 164	
IRON 165	
IRON 166	
IRON 167	

IRON 168	
IRON 169	
IRON 170	
IRON 171	
IRON 172	
IRON 173	
IRON 174	
IRON 175	
IRON 176	
IRON 177	
IRON 178	
IRON 179	
IRON 180	
IRON 181	
IRON 182	
IRON 183	
IRON 184	
IRON 185	
IRON 186	
IRON 187	
IRON 188	
IRON 189	
IRON 19	
IRON 190	
IRON 191	
IRON 192	
IRON 193	
IRON 194	
IRON 195	
IRON 196	
IRON 197	
IRON 198	
IRON 199	
IRON 2	
IRON 20	
IRON 200	
IRON 201	
IRON 202	
IRON 203	
IRON 204	
IRON 205	
IRON 206	
IRON 207	

IRON 208	
IRON 209	
IRON 21	
IRON 210	
IRON 211	
IRON 212	
IRON 213	
IRON 214	
IRON 215	
IRON 216	
IRON 217	
IRON 218	
IRON 219	
IRON 22	
IRON 220	
IRON 221	
IRON 222	
IRON 223	
IRON 224	
IRON 225	
IRON 226	
IRON 227	
IRON 228	
IRON 229	
IRON 23	
IRON 230	
IRON 231	
IRON 232	
IRON 233	
IRON 234	
IRON 235	
IRON 236	
IRON 237	
IRON 238	
IRON 239	
IRON 24	
IRON 240	
IRON 241	
IRON 242	
IRON 243	
IRON 244	
IRON 245	
IRON 246	

IRON 247	
IRON 248	
IRON 249	
IRON 250	
IRON 251	
IRON 252	
IRON 269	
IRON 270	
IRON 271	
IRON 272	
IRON 273	
IRON 274	
IRON 275	
IRON 276	
IRON 279	
IRON 280	
IRON 281	
IRON 282	
IRON 283	
IRON 287	
IRON 288	
IRON 289	
IRON 290	
IRON 291	
IRON 292	
IRON 293	
IRON 294	
IRON 295	
IRON 296	
IRON 297	
IRON 298	
IRON 299	
IRON 3	
IRON 300	
IRON 301	
IRON 31	
IRON 32	
IRON 33	
IRON 34	
IRON 35	
IRON 36	
IRON 4	
IRON 5	

IRON 58	
IRON 59	
IRON 6	
IRON 7	
IRON 77	
IRON 78	
IRON 79	
IRON 8	
IRON 9	
IRON 96	
IRON 97	
IRON 98	
IRON 99	
ST CLAIMS	***Total ST Claims = 5***
ST 1	
ST 2	
ST 3	
ST 4	
ST 5	
GOLDEN CREST CLAIMS	***Total GOLDEN CREST Claims = 241***
GOLDEN CREST 1	
GOLDEN CREST 2	
GOLDEN CREST 3	
GOLDEN CREST 4	
GOLDEN CREST 5	
GOLDEN CREST 6	
GOLDEN CREST 7	
GOLDEN CREST 8	
GOLDEN CREST 9	
GOLDEN CREST 10	
GOLDEN CREST 11	
GOLDEN CREST 12	
GOLDEN CREST 13	
GOLDEN CREST 14	
GOLDEN CREST 15	
GOLDEN CREST 16	
GOLDEN CREST 17	
GOLDEN CREST 18	
GOLDEN CREST 19	
GOLDEN CREST 20	
GOLDEN CREST 21	
GOLDEN CREST 22	
GOLDEN CREST 23	

GOLDEN CREST 24	
GOLDEN CREST 25	
GOLDEN CREST 26	
GOLDEN CREST 27	
GOLDEN CREST 28	
GOLDEN CREST 29	
GOLDEN CREST 30	
GOLDEN CREST 31	
GOLDEN CREST 32	
GOLDEN CREST 33	
GOLDEN CREST 34	
GOLDEN CREST 35	
GOLDEN CREST 36	
GOLDEN CREST 37	
GOLDEN CREST 38	
GOLDEN CREST 39	
GOLDEN CREST 40	
GOLDEN CREST 41	
GOLDEN CREST 42	
GOLDEN CREST 43	
GOLDEN CREST 44	
GOLDEN CREST 45	
GOLDEN CREST 46	
GOLDEN CREST 47	
GOLDEN CREST 48	
GOLDEN CREST 49	
GOLDEN CREST 50	
GOLDEN CREST 51	
GOLDEN CREST 52	
GOLDEN CREST 53	
GOLDEN CREST 54	
GOLDEN CREST 55	
GOLDEN CREST 56	
GOLDEN CREST 57	
GOLDEN CREST 58	
GOLDEN CREST 59	
GOLDEN CREST 60	
GOLDEN CREST 61	
GOLDEN CREST 62	
GOLDEN CREST 63	
GOLDEN CREST 64	
GOLDEN CREST 65	
GOLDEN CREST 66	

GOLDEN CREST 67	
GOLDEN CREST 68	
GOLDEN CREST 69	
GOLDEN CREST 70	
GOLDEN CREST 71	
GOLDEN CREST 72	
GOLDEN CREST 73	
GOLDEN CREST 74	
GOLDEN CREST 75	
GOLDEN CREST 76	
GOLDEN CREST 77	
GOLDEN CREST 78	
GOLDEN CREST 79	
GOLDEN CREST 80	
GOLDEN CREST 81	
GOLDEN CREST 82	
GOLDEN CREST 83	
GOLDEN CREST 84	
GOLDEN CREST 85	
GOLDEN CREST 86	
GOLDEN CREST 87	
GOLDEN CREST 88	
GOLDEN CREST 89	
GOLDEN CREST 90	
GOLDEN CREST 91	
GOLDEN CREST 92	
GOLDEN CREST 93	
GOLDEN CREST 94	
GOLDEN CREST 95	
GOLDEN CREST 96	
GOLDEN CREST 97	
GOLDEN CREST 98	
GOLDEN CREST 99	
GOLDEN CREST 100	
GOLDEN CREST 101	
GOLDEN CREST 102	
GOLDEN CREST 103	
GOLDEN CREST 104	
GOLDEN CREST 105	
GOLDEN CREST 106	
GOLDEN CREST 107	
GOLDEN CREST 108	
GOLDEN CREST 109	

GOLDEN CREST 110	
GOLDEN CREST 111	
GOLDEN CREST 112	
GOLDEN CREST 113	
GOLDEN CREST 114	
GOLDEN CREST 115	
GOLDEN CREST 116	
GOLDEN CREST 117	
GOLDEN CREST 118	
GOLDEN CREST 119	
GOLDEN CREST 120	
GOLDEN CREST 121	
GOLDEN CREST 122	
GOLDEN CREST 123	
GOLDEN CREST 124	
GOLDEN CREST 125	
GOLDEN CREST 126	
GOLDEN CREST 127	
GOLDEN CREST 128	
GOLDEN CREST 129	
GOLDEN CREST 130	
GOLDEN CREST 131	
GOLDEN CREST 132	
GOLDEN CREST 133	
GOLDEN CREST 134	
GOLDEN CREST 135	
GOLDEN CREST 136	
GOLDEN CREST 137	
GOLDEN CREST 138	
GOLDEN CREST 139	
GOLDEN CREST 140	
GOLDEN CREST 141	
GOLDEN CREST 142	
GOLDEN CREST 143	
GOLDEN CREST 144	
GOLDEN CREST 145	
GOLDEN CREST 146	
GOLDEN CREST 147	
GOLDEN CREST 148	
GOLDEN CREST 149	
GOLDEN CREST 150	
GOLDEN CREST 151	
GOLDEN CREST 152	

GOLDEN CREST 153	
GOLDEN CREST 154	
GOLDEN CREST 155	
GOLDEN CREST 156	
GOLDEN CREST 157	
GOLDEN CREST 158	
GOLDEN CREST 159	
GOLDEN CREST 160	
GOLDEN CREST 161	
GOLDEN CREST 162	
GOLDEN CREST 163	
GOLDEN CREST 164	
GOLDEN CREST 165	
GOLDEN CREST 166	
GOLDEN CREST 167	
GOLDEN CREST 168	
GOLDEN CREST 169	
GOLDEN CREST 170	
GOLDEN CREST 171	
GOLDEN CREST 172	
GOLDEN CREST 173	
GOLDEN CREST 174	
GOLDEN CREST 175	
GOLDEN CREST 176	
GOLDEN CREST 177	
GOLDEN CREST 178	
GOLDEN CREST 179	
GOLDEN CREST 180	
GOLDEN CREST 181	
GOLDEN CREST 182	
GOLDEN CREST 183	
GOLDEN CREST 184	
GOLDEN CREST 185	
GOLDEN CREST 186	
GOLDEN CREST 187	
GOLDEN CREST 188	
GOLDEN CREST 189	
GOLDEN CREST 190	
GOLDEN CREST 191	
GOLDEN CREST 192	
GOLDEN CREST 193	
GOLDEN CREST 194	
GOLDEN CREST 195	

GOLDEN CREST 196	
GOLDEN CREST 197	
GOLDEN CREST 198	
GOLDEN CREST 199	
GOLDEN CREST 200	
GOLDEN CREST 201	
GOLDEN CREST 202	
GOLDEN CREST 203	
GOLDEN CREST 204	
GOLDEN CREST 205	
GOLDEN CREST 206	
GOLDEN CREST 207	
GOLDEN CREST 208	
GOLDEN CREST 216	
GOLDEN CREST 217	
GOLDEN CREST 218	
GOLDEN CREST 219	
GOLDEN CREST 220	
GOLDEN CREST 221	
GOLDEN CREST 222	
GOLDEN CREST 223	
GOLDEN CREST 224	
GOLDEN CREST 225	
GOLDEN CREST 226	
GOLDEN CREST 227	
GOLDEN CREST 228	
GOLDEN CREST 229	
GOLDEN CREST 230	
GOLDEN CREST 231	
GOLDEN CREST 232	
GOLDEN CREST 233	
GOLDEN CREST 234	
GOLDEN CREST 235	
GOLDEN CREST 236	
GOLDEN CREST 237	
GOLDEN CREST 238	
GOLDEN CREST 239	
GOLDEN CREST 240	
GOLDEN CREST 241	
GOLDEN CREST 209	
GOLDEN CREST 210	
GOLDEN CREST 211	
GOLDEN CREST 212	

GOLDEN CREST 213	
GOLDEN CREST 214	
GOLDEN CREST 215	
EASTER CLAIMS	***Total EASTER Claims = 26***
EASTER 1	
EASTER 2	
EASTER 4	
EASTER 5	
EASTER 6	
EASTER 7	
EASTER 8	
EASTER 9	
EASTER 10	
EASTER 11	
EASTER 12	
EASTER 13	
EASTER 14	
EASTER 15	
EASTER 16	
EASTER 17	
EASTER 18	
EASTER 19	
EASTER 20	
EASTER 21	
EASTER 22	
EASTER 23	
EASTER 24	
EASTER 25	
EASTER 26	
EASTER 27	

Appendix 2
Photographs of Typical Proposed Drill Sites and Roads

Soil Berm on Road to Drill Site K.

Proposed Drill Site M. Spur Road.

Proposed Drill Site D. Log Landing from Previous Logging to Right of Road.

Log Landing right of Road. Proposed Drill Site G.

Drill Site K on Spur Road with Soil Berm.