

***** EXAMPLE PLAN OF OPERATIONS FOR LODE EXPLORATION *****
INDIVIDUAL PLANS WILL VARY DEPENDING ON SITE

USDA, Forest
Service

**PLAN OF OPERATIONS FOR MINING ACTIVITIES
ON NATIONAL FOREST SYSTEM LANDS**

FS-2800-5
OMB NO. 0596-0022

USE OF THIS FORM IS OPTIONAL! 1st TIME USERS SHOULD DIRECT QUESTIONS REGARDING THIS FORM OR REGULATIONS (36 CFR 228A) TO THE FOREST SERVICE DISTRICT OFFICE NEAREST YOUR AREA OF INTEREST.

Submitted by: Goldie Locks Operator Today's date
Signature Title Date
(mm/dd/yy)

Plan Received by: Mindy Sue Vogel Geologist Today's date
Signature Title Date
(mm/dd/yy)

I. GENERAL INFORMATION

- A. Name of Mine/Project: Silver Hill Drill Exploration
- B. Type of Operation: Lode Mineral Exploration
(lode, placer, mill, exploration, development, production, other)
- C. Is this a (new/continuing) operation? (check one). If continuing a previous operation, this plan (replaces/modifies/supplements) a previous plan of operations. (check one)
- D. Proposed start-up date (mm/dd/yy) of operation: August 1, 2010
- E. Expected total duration of this operation: 12 months
- F. If seasonal, expected date (mm/dd/yy) of annual reclamation/stabilization close out: N/A
- G. Expected date (mm/dd/yy) for completion of all required reclamation: July 31, 2011

II. PRINCIPALS

- A. Name, address and phone number of operator: _____
Goldie Locks Address: 555 Silver St, Nugget ID 55555 Phone: 555-5555
- B. Name, address, and phone number of authorized field representative (if other than the operator).
Attach authorization to act on behalf of operator. _____
Dave's Drilling Address: 555 Drilling Drive, Roughneck ID 55555 Phone: 555-5000
- C. Name, address and phone number of owners of the claims (if different than the operator):
Silvio Miner Address: 555 Copper Ct, Nugget ID 55555 Phone: 555-5500
- D. Name, address and phone number of any other lessees, assigns, agents, etc., and briefly describe their involvement with the operation, if applicable: _____
N/A

(If more space is needed to fill out a block of information, use additional sheets and attach form)

III. PROPERTY OR AREA

Name of claim, if applicable, and the legal land description where the operation will be located.

IMC#	Claim Name	Section	Township	Range
555555	Silvio Silver Claim 1	1, NW ¼	T53N	R1E
555556	Silvio Silver Claim 2	12, NW ¼	T53N	R1E
555557	Silvio Silver Claim 3	12, NW ¼	T53N	R1E
555558	Silvio Silver Claim 4	12, NW ¼	T53N	R1E
555559	Silvio Silver Claim 5	12, NW ¼	T53N	R1E

IV. DESCRIPTION OF THE OPERATION

- A. **Access.** Show on a map (USGS quadrangle map or a National Forest map, for example) the claim boundaries, if applicable, and all access needs such as roads and trails, on and off the claim. Specify which Forest Service roads will be used, where maintenance or reconstruction is proposed, and where new construction is necessary. For new construction, include construction specifications such as widths, grades, etc., location and size of culverts, describe maintenance plans, and the type and size of vehicles and equipment that will use the access routes.

Please see attached, to-scale map showing general location, claim boundaries, location of streams, existing roads, proposed access roads, proposed new road construction, proposed road work, drill sites, significant geographic features, water source, known archeological features, slash stockpiles, etc.

Head north on Highway 95 from Coeur d'Alene. Turn right on East Bunco Road (the turnoff is ~6.8 miles north of the intersection of Hwy 95 and Hwy 53). Go ~2.4 miles. Then turn left on N Bunco Road and drive ~3.4 miles. At this point, N Bunco Road becomes Forest Highway 332. Drive ~16.1 mi on Hwy 332, then turn right onto Forest Road 903. Drive approxiamtely 7 miles to Bishop Saddle. Bear right at Bishop Saddle onto FR 205. Drive ~0.3 miles on FR 205. All proposed drill sites will be accessed from the existing closed road FR 205-UI-UNK branching off FR 205 on the right (south) side at this point. FR 205-UI-UNK is currently closed with a large kelly hump and appears to not receive much unauthorized vehicle use.

A total of 6 drill sites and 3 water sources have been proposed for mineral exploration, but the number and locations of these sites are flexible and we will abide by all applicable regulations to properly permit them. This Plan incorporates what we believe to be the minimum possible amount of new road construction and rebuilding of closed existing roads. Wherever possible, we prioritized reopening closed roads over constructing new roads, and all new road construction has been strategically planned to maximize safety and minimize the total area of disturbance. We also attempted to access as many drill sites as possible with each section of road. Drill Sites 2, 3, and 4 are all accessed using the same section of road. It proved impossible to reach our other targets using this road, but Sites 5 and 6 are each accessed via the same section of reconstructed existing road. Site 1 has been placed on a wide part of an existing road prism, meaning that no road construction will be needed to access it. We will consider any Forest Service suggestions for limiting our impact.

Drill sites (locations will be clearly flagged in the field for when Forest Service personnel conduct initial

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inspections):

- **Site 1:** NW ¼ Sec 1, T53N, R1E. UTM coordinates (zone 11N, NAD 83): 05537320 E, 5313293 N. This site will be situated entirely on the road prism of FR 205 at a wide area ~3500 ft by road northeast of the junction of FR 205 and FR 205-UI-UNK. A traffic lane measuring at least 14 ft wide (and marked by safety fence and appropriate signage) will be left on the road on the south side of the drill site. The drill pad will measure 90 ft long X 12 ft wide.
- **Site 2:** NW ¼ Sec 12, T53N, R1E. UTM coordinates (zone 11N, NAD 83): 0553600 E, 5312430 N. This site is on a moderately-steeply sloping hillside approximately 230 vertical ft below and 960 ft horizontal distance northeast of the reopened portion of FR 205-UI-UNK. It will be accessed via a proposed segment of new road that will join FR 205-UI-UNK 810 ft south of the current kelly hump closure. Drill Sites 3 and 4 will also be accessed from this section of new temporary road. The drill site will measure ~12 ft wide X 90 ft long and will be constrained entirely within the new road prism.
- **Site 3:** NE ¼ Sec 12, T50N, R5E. UTM coordinates (zone 11N, NAD 83): 0552607 E, 5312025 N. This site is on a fairly steep slope approximately 600 ft east (nearly due east) of Drill Site 2, on the southwest wall of an unnamed tributary to North Creek. It will be accessed from the same proposed segment of new road that accesses Sites 2 and 4. The drill pad area will measure ~12 ft wide X 90 ft long and will be constrained entirely within the new road prism.
- **Site 4:** NW ¼ Sec 12, T53N, R1E. UTM coordinates (zone 11N, NAD 83): 0553162 E, 5312367 N. This site is on a moderately-steeply sloping hillside approximately 860 ft east-northeast of Drill Site 3, on the southwest wall of an unnamed tributary to North Creek. It will be located at the end of the proposed segment of new road that also accesses Drill Sites 2 and 3. A total of **2654 ft of new temporary road** is proposed to reach these three drill sites. Drill Site 4 will measure 70 ft X 25 ft and will be at the termination of the new temporary road. The length of the drill site is included within the total length of the proposed segment of new road.
- **Site 5:** NW ¼ Sec 12, T53N, R1E. UTM coordinates (zone 11N, NAD 83): 0553341 E, 5312356 N. This site is on a moderately sloping hillside approximately 814 ft east-northeast of the peak of Silver Hill and 609 ft roughly south of Drill Site 3. It will be accessed via the reopened portion of FR 205-UI-UNK that also accesses Drill Site 6. The drill site will measure 90 ft X 12 ft and will be completely contained within the existing road prism.
- **Site 6:** SW ¼ Sec 12, T50N, R5E. UTM coordinates (zone 11N, NAD 83): 0553174 E, 5312055 N. This site is near the top of Silver Hill, about 320 ft south-southeast of an old log cabin. The drill site will be accessed directly from FR 205-UI-UNK and no new road construction is required to reach this site. However, a total of **5292 ft of brushing out and road maintenance** will be required and one kelly hump will be removed (the hump near FR 205) to reopen FR 205-UI-UNK. FR 205-UI-UNK is currently heavily overgrown in places and has several water bars that are unsafe for vehicle travel. This drill site represents the furthest extent of road work required on FR 205-UI-UNK. This distance of road work includes the drill site, which will measure 90 ft long X 12 ft wide.

In addition, a flat **staging area** will be constructed on the west side of the reopened portion of FR 205-UI-UNK at the junction with the road to Drill Sites 2, 3, and 4. This staging area will measure ~80 ft north-south X 30 ft east-west. The primary purpose of the staging area is to accommodate additional gear and heavy equipment, especially empty trailers, beyond what is stored at the drill sites. Excess slash and aggregate from road building will also be stockpiled at this staging area.

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In total, **2654 ft of new temporary road** in one segment will be constructed in three segments for temporary equipment and operator access to drill site locations, as described above. The new temporary road will be 12 feet wide, with a 4% max grade, and will include 2 culverts (indicated on the attached map). The State of Idaho Best Management Practices (BMP) Manual will be followed for locating, constructing, operating and reclaiming temporary access roads with the objective of minimum resource damage. The culverts and road will be recontoured and reclaimed immediately following operations (see *section IV-C for road construction details*).

In addition, a total of **5292 ft of the existing closed road** FR 205-UI-UNK will be brushed out and bladed. A prominent kelly hump near the junction with FR 205 will be removed to allow drill rig entry, but a Forest Service-approved gate will be installed in its place. This gate will be locked at all times, including during operations, except when authorized personnel are entering or leaving the area. I will not allow access to anyone not actively involved with the exploration operation. The gate will have a double-locking mechanism accommodating both a Forest Service and an operator lock. Additional culverts and water bars may be installed where deemed appropriate by the Forest Service on both the new and existing closed road. A closure mechanism at the current location of the kelly hump will be left in place following operations of a type approved by the Forest Service.

The drill rig and all other large equipment will be brought in on a lowboy using the proposed access route. Three trailers carrying the remaining drill equipment will also be brought into the site by pickup truck via this route. All vehicle traffic, including the drillers' daily travel, will use this route.

Maintenance of Forest roads outside the claims will be approved through the use of a road maintenance agreement that will be incorporated into the Plan of Operations. A copy of this agreement will be provided to the Forest Service.

Please see attached photos for visual information about each drill site and the proposed road work.

A flagger will be present to control traffic whenever heavy equipment is transported on or off public roads. The double-locked gate will serve as the major form of traffic control during operations. Drill Site 1, which will use a portion of the existing road prism of the currently open FR 205, will accommodate vehicle traffic on FR 205. Traffic control at the site will include signs warning of heavy equipment posted both east and west of the drill site, at increments of 250 and 2000 ft from the site in either direction. In addition, a safety fence will be built to separate the drill site from the traffic lane. Signs will prominently display the proper vehicle travel route. If needed, such as in the event of the movement of a large piece of equipment near the drill site, a flagger will direct traffic for safety.

B. Map, Sketch or Drawing. Show location and layout of the area of operation. Identify any streams, creeks or springs if known. Show the size and kind of all surface disturbances such as trenches, pits, settling ponds, stream channels and run-off diversions, waste dumps, drill pads, timber disposal or clearance, etc. Include sizes, capacities, acreage, amounts, locations, materials involved, etc.

A to-scale map is included showing general project area and locations of claim boundaries, section boundaries (including township and range), streams, water sources, drill sites (Sites A-C are labeled

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separately), slash stockpile, significant geographic features, known archeological features, etc. The map also shows the proposed access routes. Existing open roads, existing closed roads requiring work to reopen, and new road construction are symbolized with different colors, as explained in the Legend. The map also indicates locations of all culverts, known existing seeps, wet areas on access roads, silt fences, and Forest Service-approved gates that will be installed and maintained on new and reopened roads as required by the Forest Service. The proposed access route is flexible and will conform to Forest Service stipulations.

A separate attachment includes detailed, **to-scale** diagrams of the layout of equipment at the drill sites.

An additional attachment includes **to-scale** cross-section **and** map-view diagrams of the drill sites and areas of new road construction, including the cut bank, fill slope, road bed / drill pad, and total area of disturbance.

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.

Project Description: This proposal is for drill core exploration at six drill sites (Sites 1-6) on Silvio Silver Claim 1 (IMC# 555555), Silvio Silver Claim 2 (IMC# 555556), Silvio Silver Claim 3 (IMC# 555557), Silvio Silver Claim 4 (IMC# 555558), and Silvio Silver Claim 5 (IMC# 555559) all of which are in the Independence Creek drainage, in the Silver Hill area. Attached is a letter from the claim owner, Silvio Miner, authorizing my use of the claims for this exploration. The purpose of the exploration is to determine the location, concentration, quality, and type of mineralization in the area, and to help establish the feasibility of possible future mining operations. This Plan proposes only exploration work; I will submit another Plan if I eventually decide to begin mining.

A single drill rig (see section IV-D for equipment details) will drill each of the holes in order. Drill holes will have a maximum depth of ~650 ft. An average of three weeks will be spent drilling each hole, and several more days will be required to mobilize into and out of each site. 2 drillers will each work 10-hour shifts, 4 days per week (Monday through Thursday) and will drive to and from the site in a single pickup truck. All operations will occur between the hours of 6 am and 6 pm. Geologists and other mining personnel will also occasionally visit the site by pickup truck. I understand that I must apply for an Extended / Industrial Use Camping Permit from the Forest Service if I later decide to shorten my employees' travel time to the drill site by having them camp in the National Forest.

During operations, a drill fluid mixture containing water and bentonite will be pumped into the drill hole. If the Forest Service or any drilling personnel notice that this drill fluid is seeping out of the ground or is entering a stream via fractures, operations will immediately shut down until a method can be devised to prevent the fluid escape.

All drill sites will maintain at least a 50 foot stream buffer (as directed by the Inland Native Fish Strategy,

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1995) to protect and prevent damage to the stream bank, water quality, and the aquatic habitat in Independence Creek and its tributaries because they flow year round. (Note: if work is planned within the stream channel, a complete restoration Plan needs to be included.) Silt fences will be constructed on the downhill side of the drill pad and any new road construction (see map & section V-B). The bottom ~3 inches of each silt fence will be buried to prevent water runoff from going underneath the fence. I understand that the Forest Service can request that I improve or install new silt fences or other sediment control measures at any time if it deems necessary.

All topsoil and slash will be separately stockpiled (see map for stockpile locations) and used in reclamation (see Vegetative Removal below & section V-H).

A sump measuring 5 ft deep X 6 ft wide X 6 ft long will be dug at all drill sites for water recycling purposes. All sites will require water removal directly from streams (see section V-B-1). This water will be removed by water truck from Water Source A for Drill Sites 1, 2, and 3. At Drill Site 4, water will be continually removed from Water Source B via hoses and two pumps. The sump pit and any trenches used to direct drill fluids to the sump will be lined with two layers of sturdy plastic sheeting. This plastic will be removed at the end of operations and all pits will be refilled, with subsoil at the bottom and topsoil above. If any drill fluid is found leaking out of the ground after drill operations have ended at a site, I will adhere to Forest Service stipulations for removing the material.

After completion of each drill site, the uppermost 10 feet of all drill holes will be plugged with concrete and will be disguised with 12 inch minimum topsoil so that no trace of them remains on the surface. Any casings protruding from the hole will be removed.

Vegetation Clearing: A total of approximately **1756 merchantable trees** (having a diameter at breast height of 4 inches or more) will be removed for road and drill pad construction.

- 948 of these trees are on the drill pads for Sites 2, 3, and 4, and their proposed 2654 ft of new access road.
- 789 of these trees are on the drill pads for Sites 5 and 6 and the 5292 ft of FR 205-UI-UNK proposed for debrushing and reopening.
- 19 of these trees are on the proposed staging area.

The trees intended for removal will be marked with spray paint prior to Forest Service field inspections. The total number listed here represents the maximum expected number of trees to be removed, and the final number removed may be lower. Those trees that we are certain will be cut will be marked with an orange dot. Those that may perhaps be spared if the area of disturbance can be limited in certain areas will be marked with a prominent blue dot. We will inform the Forest Service of the total number cut immediately after removal has been completed.

Timber will be cut only to the extent necessary for timely completion of the exploration activities. All merchantable timber felled during the operation that is not used in the conduct of the mining operations as permitted in the 1872 mining law and other pertinent statues and regulations will be managed as directed by the Forest Service. To expedite the operational start-up date, the operator will cut the timber to the tree length designated by the Forest Service, delimb it, and skid it to a designated log deck for disposal or sale

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by the Forest Service. All merchantable trees within the operational boundaries will be marked by the Forest Service prior to operator clearing.

All limbs, unmerchantable trees, and brush will be employed as woody debris for reclamation and erosion control purposes. This material will be stockpiled at the staging area proposed for the junction of FR 205-UI-UNK and the road leading to Drill Sites 2, 3, and 4. Piles will NOT be made on main traveled roads, in drainage ditches, below high water marks, or in live or intermittent stream courses. I understand that slash or unmerchantable trees may only be buried for disposal with Forest Service approval, and this Plan does not call for any burial or other slash or sediment disposal. The reclamation of disturbed areas will proceed concurrently with the exploration operation. Stumps will be pushed up and stored with the rest of the slash and used in the reclamation. Some stumps will be partially buried in reclaimed topsoil to help hold the soil in place and prevent erosion.

Road Construction: Most access will be on existing roads. **There will be ~2654 feet of new temporary road construction** for one spur road to access Drill Sites 2, 3, and 4. All three sections of proposed new road will require clearing a moderate-thick forest of primarily larch and grand fir trees having an average age of ~45 years. Clearing widths will be the minimum necessary to allow for safe vehicle passage (~15 feet). High standard haul road standards should not be necessary for this operation but will be constructed only if necessary to maintain slope stability and eliminate excess erosion. Standards for these roads will meet those required for forest development roads, or higher, based on requirements of the Mine Safety and Health Administration (MSHA). All three of these road segments will mostly traverse moderately-steeply sloping hillsides (average slope ~11° -- see below for estimated area of disturbance of the section of new road). The proposed new road will not cross cliff areas and no blasting is anticipated. We will keep the Forest Service informed about the status of road construction and seek approval for any alterations to this Plan. One area, measuring ~75 ft long on the new access road slightly west of Drill Site 2, about 760 ft from the junction with FR 205-UI-UNK, is known to have a high concentration of large boulders and will require a significant amount of heavy equipment use. These boulders will be stockpiled at the proposed staging area and replaced during reclamation. Also, one area between Drill Sites 3 and 4 (about 250 ft east of Site 3) measuring ~40 ft long, will require an unusually large amount of fill material due to a large dry gully. We will attempt to use material removed from the proposed staging / stockpiling area as fill for this section of road. However, if this fill source is insufficient, we will purchase and truck in 3 inch-minus gravel (or whatever gravel type is recommended by the Forest Service) from Zanetti Brothers. This type of gravel will also be spread over all newly constructed and reopened roads. Any excess material from road construction will be stockpiled at the staging area. We expect to use ecology blocks on the downhill bank of a section of road construction in cases where a large amount of fill is needed on a hillside.

An additional 5292 ft of closed road will be temporarily reopened and will abide by the same standards. No culverts will be added, modified, or removed during the reopening of FR 205-UI-UNK. Road beds will measure 12 ft wide and drill pads will either occur entirely within the road prism or will measure 25 ft wide and 70 ft long (see attached schematic diagrams of drill site arrangements and engineered cross sections of roads and drill pads for various slope steepnesses).

Overall, the section of FR 205-UI-UNK to be debrushed is sparsely-moderately overgrown by mostly

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larch and white pine trees having an estimated average age of about 15 years. Where the steepness and shape of the slope allow, access will consist of low impact access road construction consisting of vegetative clearing and cutting of trees flush to the ground, but little to no earthen excavation or fill. Most sections of road will require only this amount of work. However, a large kelly hump near the junction with FR 205 will need to be removed. This will require work with a bulldozer and excavator. In addition, two sections of road will require moderate blading due to material covering the road from small mass wasting events. The first of these sections is ~3690 ft down FR 205-UI-UNK from the junction with FR 205 and measures ~75 ft long. The other section is ~3805 ft down FR 205-UI-UNK from the junction with FR 205 (~105 ft southeast of the first section) and measures ~40 ft long. In the second section, the road width has been reduced to only 48" wide. This section will be widened by about 8 ft. Any excess material from road construction or reopening work will be used in drill pad or road fill construction or stockpiled at the main staging area.

The total area of disturbance, including drill pads, new temporary roads, and reopened temporary roads, will equal **~3.087 acres** (134,457 ft²). The following details how this total was reached:

- **1.086 acres** (47,287 ft²) of new temporary road construction for the proposed access to Drill Sites 2, 3, and 4. This road will be 2584 ft long (2654 ft total – 70 ft of drill pad length at end) and will have an average of 18.3 ft width of disturbance counting cut bank and fill slope (the average slope on the hillside on which this road will be built is ~11°. The slope reaches a maximum steepness of ~20° in one segment measuring ~45 ft long and has a minimum steepness of 0°).
- **0.025 acres** (1080 ft²) of disturbance for Drill Site 1, which will occupy an existing wide area on FR 205 and will measure 12 ft wide X 90 ft long.
- **0.056 acres** (2450 ft²) of disturbance for Drill Site 4, which will be 70 ft long and have an average width of disturbance of 35.0 ft, counting cut bank and fill slope on the ~9° slope at the site, to achieve a useable width of 25 ft (Drill Sites 2 and 3 need not be accounted for because they will occur entirely within the existing road prism).
- **1.865 acres** (81,240 ft²) of temporary road work to reopen the entire required portion of FR 205-UI-UNK, including the drill pad area at Site 6 at the road termination. This road will be 5292 ft long and 12 ft wide, but will have a ~15 ft width of disturbance for tree cutting and trimming to allow safe vehicle passage.
- **0.055 acres** (2400 ft²) of brushing for a proposed 80 ft X 30 ft staging and stockpiling area on the west side of FR 205-UI-UNK at the junction with the spur road leading to Drill Sites 2, 3, and 4.

Road location, alignment, width, grades, and drainage will be reviewed in the field and agreed upon by the operator and the Forest Service prior to construction. Timber will be cut and handled as stated above in *Vegetative Clearing*. Vegetative clearing for road construction will be sufficient to allow for construction of the road surface in addition to avoiding incorporating slash in the fill slope or having unstable trees on the cut slope edge. Care will be taken to avoid forming windrows of slash along the shoulder of the fill slope. All excess material from road construction will be stockpiled at the staging and stockpiling area designated

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on the attached maps or used as fill for additional road work. When building new roads, drill sites, or the staging and stockpiling area, all topsoil will be stripped from the surface and stored separately at the stockpiling area. All stockpiled material will be used for road reclamation and recontouring after operations have completed. The topsoil will not be mixed with any other material and will be distributed evenly or as directed by the Forest Service over the reclaimed areas.

Cut and fill slopes will be mulched and reseeded within 72 hours of construction, following the same guidelines outlined in the *reclamation section V-H*. Road drainage structures (i.e. rolling dips, water bars, etc.) will be installed as needed and their design and placement will be subject to Forest Service approval. The location of the culvert will be approved by the Forest Service prior to emplacement. No permanent culverts will be required.

Roads will be managed to control public access to meet Forest Service objectives for the area. This may require the installation of additional gates and / or permanent closure after the operation is complete. Final closure methods will be reviewed with the Authorized Representative and approved by the District Ranger. When no longer needed for access, the newly built temporary roads will be recontoured, to the extent practical, back to the original contour and revegetated with native plant species as specified in *section V-H*. Prior to seeding, topsoil stored separately at the staging and stockpiling area will be spread over the top of other fill material in reclaimed areas. **Topsoil will not be mixed with any other material.**

If I later decide to change any portion of this Plan of Operations, I will submit a modification request to the Forest Service, even if the proposed change is minor. I will proceed with the change only after the Forest Service has granted written approval for the modification.

D. **Equipment and Vehicles.** Describe that which is proposed for use in your operation (Examples: drill, dozer, wash plant, mill, etc.). Include: sizes, capacity, frequency of use, etc.

Track-Mounted Excavator (Kobelco 120 – operator owned): Used for road construction and sump excavation. The excavator has a ½ yd bucket and a digging depth of 20 feet. Another common name for this machine is trackhoe. This excavator will be kept at each drill site to remove and stockpile sump material.

Bulldozer (Caterpillar D6 - rented): Used for road and drill pad area construction. The bulldozer has a blade width of 6 feet. Will be stored off site and only used during construction and reclamation.

Truck-Mounted Drill Rig (Boart Longyear 34 Core Drill – operator owned): Used for drilling core. The rig has a maximum drilling depth of 1500 ft. Absorbant cloths will be laid out under the rig to capture any unforeseen petroleum leaks.

2 Water Pumps (both Northstar SERM-50V – operator owned): Used to pump water to the drill. 7920 GPH maximum uptake rate (variable). Will be stored inside tall-sided, wheeled metal container with spill kit immediately nearby to reduce the possibility that petroleum leaks will escape into the environment.

Water Truck – (International 4200 SBA – operator owned): Used to carry water from a water source to the

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drill site (this water truck will only be needed for Site 3 because all other sites will pump water directly from nearby streams, as explained in *section V-B*). Capacity of 2000 gallons. The area underneath this truck will be monitored daily for petroleum leaks.

2 Chainsaws (both Stihl 440 – operator owned): Used to clear roads and drill sites of trees.

Two additional boxes with spill absorbers will also be on site in case of petroleum spills.

If changes to the equipment are needed, the District Ranger will be notified in writing in advance with an explanation for the change, even if the proposed change is minor. The revised equipment will not be used without the approval of the District Ranger or the Authorized Representative.

All equipment will be cleaned prior to arrival and departure from the site, removing all soil, plant parts, seeds, vegetative matter, or other debris that could contain seeds in order to prevent the spread of noxious weeds into or out of the project area.

E. **Structures.** Include information about fixed or portable structures or facilities planned for the operation. Show locations on the map. Include such things as living quarters, storage sheds, mill buildings, thickener tanks, fuel storage, powder magazines, pipelines, water diversions, trailers, sanitation facilities including sewage disposal, etc. Include engineering design and geotechnical information for project facilities, justification and calculations for sizing of tanks, pipelines and water diversions, etc.

No permanent structures will be constructed onsite.

Equipment (excavator, bulldozer, drill rig, and water truck) will be stored onsite during operational periods. All equipment will be removed after the completion of each drill site.

Operational staff living quarters will be at a local campground on private property or at a local motel in Athol. We will follow the Idaho Panhandle National Forests 14-day camping limit rule if it becomes necessary to camp on site during the operational period.

A temporary, portable, self-contained “porta potty” will also be used. It will be placed in each drill pad area during operations, cleaned weekly, and promptly removed while closing each site.

A wall tent structure with a 10 ft X 10 ft footprint will be temporarily set up at each drill site to serve as a shelter for site workers. We do not anticipate working in very cold weather, but if the need to set up portable heaters arises, we will make a formal request to the District Ranger and await Forest Service approval before bringing the devices to the site.

V. ENVIRONMENTAL PROTECTION MEASURES (SEE 36 CFR 228.8)

A. **Air Quality.** Describe measures proposed to minimize impacts on air quality such as obtaining a burning permit for slash disposal or dust abatement on roads.

Misted water, mulch, and/or tarps will be spread on the temporary road access near each drill site during

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***** EXAMPLE PLAN OF OPERATIONS FOR LOPE EXPLORATION *****
INDIVIDUAL PLANS WILL VARY DEPENDING ON SITE

periods of extremely dry weather to prevent a decrease in air quality due to dust emissions.

All internal combustion equipment used onsite will have appropriate, functional muffler systems installed. Equipment will not be left idling for significant periods of time when not in use.

Slash burning is not requested at this site. However, we understand that if slash burning were requested and approved (see section V-I), it would be conducted only when favorable water and wind conditions exist.

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.

1. 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.
2. Describe methods to control erosion and surface water runoff from all disturbed areas, including waste and tailings dumps.
3. Describe proposed surface water and groundwater quality monitoring, if required, to demonstrate compliance with federal or state water quality standards.
4. Describe the measures to be used to minimize potential water quality impacts during seasonal closures, or for a temporary cessation of operations.
5. If land application is proposed for waste water 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.

Erosion control structures will be used to prevent runoff and erosion. These structures will be constructed in accordance with the Idaho Department of Environmental Quality catalog of *Stormwater Best Management Practices for Idaho Cities and Counties, 2nd Edition, April 2001*; the U.S. Environmental Protection Agency's *Storm Water Management of Construction Activities: Developing Pollution Prevention Plans and Best Management Practices, September 1992*; and the Idaho State Department *Best Management Practices for Mining in Idaho, November 1992*. Erosion control systems will be established as appropriate to the site.

1. The water used in this operation has been permitted by the Idaho Department of Water Resources (IDWR) for use in drilling operations. We anticipate using ~1000 gallons of water daily. Water will be extracted at a maximum rate of 10 gallons per minute. The water intake will be covered with a 1/8" metal screen to prevent it from sucking up fish. Water will be recycled to the greatest extent possible in the sump systems planned for all drill sites. We will mail the Forest Service a copy of the IDWR permit shortly. The water will be extracted from three separate sites. Each water source is marked on the attached map.

- **Water Source A** (providing water to Drill Sites 1, 2, and 3) is from Bishop Spring, near the headwaters for an unnamed tributary to Snow Creek, and about 25 ft southeast of FR 903 near

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***** EXAMPLE PLAN OF OPERATIONS FOR LOPE EXPLORATION *****
INDIVIDUAL PLANS WILL VARY DEPENDING ON SITE

Bishop Saddle. It is located at UTM coordinates: 0552776E, 5313091N. The water truck will park on FR 903 (it will never leave the road) and remove water by hose from a small pond at the spring. Because of our recycling sump system, we expect to extract water no more than 3 times per week. We will change locations if the water intake harms the stream or spring in any way.

- **Water Source B** (providing water to Drill Site 2) is a small unnamed tributary to North Creek at UTM coordinates: 0553626E, 5312670N. Water will be removed near-continuously during drilling by a hose running directly from Drill Site 4 to the water source (the location of the water line and its accompanying foot path are indicated on the *attached map*). Because of the significant vertical distance between the water source and drill site, two pumps will be required to transport the water to the drill site. The upper pump will be located at the drill site and the second, lower pump will be situated about halfway down the hillside (*as shown on the map*).

The pump will be carried to this location by hand; vehicles will not be driven off of roads for which their use has been permitted. I have walked down into this stream channel and it appears as if the stream flows year-round. I collected mid-day measurements of stream flow at the proposed Water Source B during summer months in 2008 (a relatively wet year) and found the following information: 325 gallons per minute in June, 281 gallons per minute in July, and 278 gallons per minute in August. I will gladly collect more measurements if required by the Forest Service.

2. Sediment control devices will be installed prior to surface-disturbing activity, inspected regularly, and cleaned to maintain >60% of their sediment capacity by volume. It is expected that there will be no net increase in sediment yield from the site given that a significant vegetative buffer separates all road and drill site construction from the stream and all appropriate BMPs will be followed. Should it become evident that an erosion control component is not performing in the manner necessary to minimize erosion and runoff, mining operations will be stopped and corrective measures initiated to mitigate the situation. Concurrent reclamation will reduce the amount of material exposed at any given time and will reduce the possibility of sedimentation or siltation issues.

Silt fences will be the primary method of erosion control and will be constructed prior to the start of operations at any site. They will be installed on the downhill side of sump pits at all drill sites. Silt fences will also be installed below any sloped areas of with loose sediment, including recently created fill slopes consisting of fine-grained material. The bottom ~3 inches of every silt fence will be buried.

The temporary access roads will be constructed with rolling dips and will be armored with minus-3-inch wash rock to minimize rutting in high traffic areas. Road beds will also be sloped toward the uphill bank to discourage sediment from escaping the road prism. We will abide by any additional Forest Service requirements.

3. There will be no diversion or alteration of channels during this operation. If such diversions become necessary as part of operations, a modification to the operating Plan will be submitted to the District Ranger outlining the details of the proposed diversion. The diversion will not be constructed without prior approval from the Forest Service and we will apply for and provide the Forest Service with the necessary Idaho Stream Alteration Permit.

4. During periods of high precipitation or runoff, earth disturbing operations will be curtailed to prevent

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INDIVIDUAL PLANS WILL VARY DEPENDING ON SITE

excessive erosion and sedimentation. This includes road construction and sump excavation. All erosion BMPs will also be followed.

Although interim shutdown periods are not expected for this Plan (see section V-L), regular inspections of the site's erosion control system will be performed by the operator at least monthly during inactive periods. During shutdown periods, the sump will be filled to a maximum of 80% capacity to accommodate any heavy precipitation events.

5. No land application system is proposed for this project.

C. **Solid Wastes.** Describe the quantity and the physical and chemical characteristics of solid waste produced by the operation. Describe how the wastes will be disposed of including location and design of facilities, or treated so as to minimize adverse impacts.

Trash and debris generated during operations will be removed from the site at least weekly (or more often as needed) and disposed of in an approved, regulated landfill or disposal facility. Under no circumstance will trash and debris be burned or buried on site or on any other National Forest System lands.

Operations staff will use a portable self-contained "port-a-potty," which will be placed in a non-sloping area out of sight of any open roads, including FR 205 and FR 903, except at Site 1, which is on the road prism of FR 205. The portable unit will be emptied at least weekly and will be of sufficient size to meet OSHA workplace requirements.

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

The mining site is located in a remote, rural area and is not likely to be visited frequently by the public. However, the Bishop Saddle area is popular for huckleberry pickers and weekend hikers. To minimize visual impacts, as few trees will be removed as possible during road construction. All drill sites except Site 1 will be surrounded by forest for a few hundred feet in all directions and Site 5 will not be visible from FR 903 or FR 205. However, Sites 2, 4, 5, and 6 will all most likely be easily visible from FR 205 and FR 903 and Site 1 will be directly visible to all users of FR 205. Furthermore, the location of Site 6 may interfere with ability of hikers to reach the top of Silver Hill (a popular hiking destination) because it will occupy most of the road prism. In addition, it may be possible to hear the drill rig at all sites from Bishop Saddle.

To reduce the negative visual impacts associated with the drill sites, the project area will be kept clear of trash and debris and equipment will be parked in an area out of sight of the road at all times if possible. At the end of the project, all material not necessary for claim monumentation will be removed. The area of use will be maintained to present a clean, natural, and orderly appearance. As many trees as possible will be left standing in the vicinity of each drill site. In addition, a narrow strip on the reopened portion of FR 205-UI-UNK at Drill Sites 5 and 6 will remain unobstructed by drill equipment to allow hiker travel. The presence of these drill sites may also reduce or prevent unauthorized ATV travel, which would significantly benefit hikers' experience near Silver Hill by reducing noise and sediment disturbance leading to erosion

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INDIVIDUAL PLANS WILL VARY DEPENDING ON SITE

on the reopened road.

E. 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.

All adverse impact will be minimized through timely reclamation and the use of BMPs. Standard BMPs for erosion and sediment control will be followed to minimize the risk of damage to aquatic resources in streams including changes in water temperature, large woody debris, bank stability, width to depth ratio, sedimentation, etc. (see section V-B). Operations will cease immediately if drill fluid or erosive runoff is seen flowing into any stream. Operations will also shut down if a stream appears discolored or shows any other signs that drill fluid is flowing into it by any means, including from underground fractures.

Implementation of a 50 foot stream buffer will protect the riparian vegetation and ecosystem and reduce the risk of detrimental effects on the environment.

The installation of 3 temporary culverts for seeps or streams crossing the reopened portion of the FR 205-UI-UNK road and new temporary spur roads will be in compliance with federal and state regulations and be approved by the Forest Service. They will be large enough to accommodate all anticipated water flow and to allow for proper fish passage as directed by the Forest Service.

Removal of trash from the site will occur at least weekly to reduce the possibility of wildlife interaction. In addition, all garbage at the site will be collected in sealable or locking-type garbage cans until removal from the area.

No operations will be conducted until fish and wildlife clearance has been obtained. If the fisheries or wildlife specialist prescribes specific requirements for the operation (such as work timing restrictions) due to the presence of a threatened, endangered or sensitive fish or wildlife species and / or their habitat, appropriate alterations to the Plan will be made according to Forest Service requests. Although this Plan does not call for operations near a mine adit or shaft, I understand that if such a feature is found in the area certain work restrictions may be required, including work timing restrictions and a work buffer distance near the portal.

F. Cultural Resources. Describe measures for protecting known historic and archeological values, or new sites in the project area.

Our extensive field work in the area has found one possible historic site. An old, partially collapsed log cabin was identified about 300 ft northwest of the top of Silver Hill, and about 350 ft northwest of proposed Drill Site 6. The cabin will not be impacted by our operations in the area. Site 6 and its access route were specifically placed to the south of the summit of Silver Hill to avoid the cabin. No other archaeological features were identified during our survey. However, no activities will be conducted until consultation has been completed under Section 106 of the National Historic Preservation Act and a project completion memo has been issued. If cultural objects, structures, or features are discovered during operations, the operator will immediately suspend operations and notify the District Ranger of the discovery. The operator will not damage, alter, or destroy any object of antiquity, historic

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INDIVIDUAL PLANS WILL VARY DEPENDING ON SITE

structure, or feature. If a new discovery is made, provisions of the Forest Service's Cultural Resources Discovery Plan will be implemented by the Forest Service and the operator according to the provisions of the Antiquities Act of 1906 and the National Historic Preservation Act of 1966, as amended.

G. 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.

Diesel, gasoline, and standard petroleum lubricants will be used in this operation. In addition, a mixture of water and naturally-occurring bentonite will be pumped into the drill hole. Much of this mixture will return to the surface through the drill hole and be captured in the sump, but a portion may escape into underground fracture systems. This substance is not toxic but can be damaging to streams if significant quantities escape into an uncontrolled water body. As a result, periodic inspections will be made of the unnamed tributaries near Silver Hill to ensure that no drill fluid is reaching these areas. If drilling operations were proposed to take place closer to a stream, we would monitor the channel twice daily both 500 ft above and below the drill site. Significant amounts of drill fluid present in a stream will cause the water to take on a slightly whitish appearance. Operations will stop immediately if drill fluid is suspected to have seeped into a stream and the Forest Service will be contacted immediately.

A limited amount of fuel will be contained in the fuel tanks of the equipment used on site. In addition, no more than a total of 5 gallons of fuel will be stored in gear boxes of equipment on site. The total estimated volume of fuel contained in the tanks and gear boxes of the equipment on site is outlined below and will be less than 322 gallons:

Excavator – 40 gallons
Bulldozer – 50 gallons
Water Truck – 90 gallons
Water Pump – 5 gallons
Water Pump 2 – 5 gallons
Chainsaw – 1 gallon
Pickup Truck – 30 gallons
Drill Truck – 90 gallons
Motor Oil (1 can) – 5 gallons
2 Supplemental Fuel Cans – 3 gallons ea, 6 gallons total

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.

No fuel or lubricants will be stored on site. All fuel will be brought to the site in proper petroleum storage containers, via pickup truck. Fuel will most likely be brought to the site on a weekly basis. The storage and transportation containers will be properly labeled, identifying the contents. Fueling will not occur in or immediately adjacent to water sources and spill pads will be placed on the ground under any fueling

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INDIVIDUAL PLANS WILL VARY DEPENDING ON SITE

operations. Empty fuel containers will be disposed of properly at the Athol dump. Fire extinguishers will be kept in the pickup truck, near the drill rig, in the spill kit beside the water pump, and at at least one other location near the drilling area. These fire extinguishers will be inspected regularly, as recommended by the manufacturer and applicable laws (see section V-1 below).

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.

To prevent incidental releases, equipment tanks and gear boxes will be inspected daily prior to operations and daily upon completion of operations. If a piece of equipment is found to be leaking or seeping fuel or lubricants, the equipment will be immediately taken out of service and corrective measures instituted to prevent a release. All vehicles will be equipped with a spill prevention control and counter-measure kit consisting of absorbent pads and a shovel. All fuel will be transported to and from the site using proper fuel containment. Whenever moving fuel from one container to another or fueling a piece of equipment, spill pads will be placed on the ground under the operation. In addition, spill pads will be placed under the drill truck to catch any leaks during operations. Spill pads or leakproof metal or plastic trays will also be placed under fuel cans if these cans are not stored inside leakproof containers.

All chemicals stored at the site, including bentonite, fuel, lubricants, and others, will be stored in leakproof metal or plastic containers whenever operations are stopped. The volume of these containers will equal at least 110% of the volume of all chemicals stored inside them.

If a release of hydrocarbons occurs at any time, the operator will immediately suspend operations and take the necessary steps to contain the release. Any contaminated soil or materials will be removed from the site and disposed of in an approved sanitary facility designed to dispose of such materials. The District Ranger will be notified of the time, date, location, and the extent of the release immediately after it has been contained. Additionally, other appropriate local, state and federal agencies will be notified as required by law.

During interim shutdown periods or periods of inactivity, all equipment stored onsite will be parked away from steep slopes and all fuel tanks and gear boxes containing chemicals will be underlain with absorbent pads.

The Forest Service will be provided with a copy of the operator's spill control and prevention plan, which is a very thorough description of precise amounts of hazardous materials to be stored on the site, materials safety and data sheets (MSDS) for all materials to be kept onsite, detailed spill response procedures, and all necessary contact information for responsible agencies.

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***** EXAMPLE PLAN OF OPERATIONS FOR LOPE EXPLORATION *****
INDIVIDUAL PLANS WILL VARY DEPENDING ON SITE

H. **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.

There will be no permanent structures or other facilities to remove and reclaim. However, plastic-lined sump pits and trenches will be reclaimed at the end of operations at each drill site. The plastic will be removed, any accumulated mud or drill cuttings extracted and disposed of properly, and plastic sheeting pulled out. Sump materials will be stockpiled at the staging / stockpiling area throughout operations and will be fully removed during reclamation. All garbage, equipment, and other gear will also be removed from the staging / stockpiling area, the drill sites, and all other National Forest System areas during the final reclamation.

The 2654 ft of new temporary access road will be reclaimed to pre-operational condition. In addition, the 5292 ft of reopened road will be closed to public use. Road closure mitigation plans including water bars, seeding, and closure devices will be approved by the Forest Service. See below for reclamation details.

Earth Moving: All new roads will be completely recontoured to match the surrounding topography. The fill slope will be brought uphill to fill the road cut. We will consult the Forest Service to determine the appropriate closure features for the reopened road. Unless directed otherwise, we will decompact the surfaces of the reopened road and install formidable kelly humps on the beginning of FR 205-UI-UNK near the junction with FR 205, at the location where a traffic gate is proposed during operations. We will fully recontour the new temporary spur roads and the staging and stockpiling area.

Silt fences may be left in erosion-prone locations for up to one year after the reclamation of any area. We will install temporary silt fences at certain places if instructed by the Forest Service.

Re-Vegetation: All drill sites and temporary roads, including the reopened roads, will be seeded. Soil on areas to be seeded will be left in a roughened, decompact condition favorable to the retention and germination of the seed. Topsoil will be replaced last, ensuring that it is at the top. Disturbed areas will be revegetated with District approved, noxious weed-free seed mixes following operations (FSM 2081.2). Reclaimed sites will be monitored and maintained for a period no less than 2 years following operations. Revegetation will have an 80% success rate and be comparable to adjacent reference areas. If this rate is not accomplished, more reseeding may be administered in subsequent years.

A seed mixture that promotes rapid ground cover and long term stability will be formulated based on site specific conditions. Seed mixtures will be certified free of seeds from weeds listed on the current Noxious Weeds lists for Idaho, Montana, Washington, Oregon, Utah and Wyoming. Information regarding proper site seed mixture requirements and the amount of seed per acre will be provided by the Forest Service. I may also consult the Forest Service for a list of distributors of appropriate seed mixtures.

Prior to seed dispersal, I will provide the Forest Service with a list of the plant species included in the mixture and their concentration, as well as a copy of a receipt from the seed purchase. Fertilizer will be applied with the seed mixes as specified by the Forest Service.

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Timing of reseeded will depend on the season – early spring (April 1 to May 15) and late fall (October 1 – November 15) are optimal times for replanting. However, if operations are completed outside of this period, alternatives including slash or mulch may be required to help prevent loss of topsoil. No seed application will be done during extremely rainy, windy, or dry periods or over frozen ground. The Forest Service will be consulted for seeding guidelines.

To reestablish long-term slope and soil stability and recover habitat, the operator will, in cooperation with the Forest Service, develop and implement a tree replanting program after the final regrading and seeding of the site. Stocking for trees and shrub species will be evaluated using standard survival surveys. Replanting will be conducted with District-approved tree stock and will consist of planting densities and species appropriate to the site.

Noxious weeds will be monitored by the operator and treated in compliance with the Coeur d’Alene River Ranger District’s Noxious Weeds EIS (February, 2000). If any noxious weeds are found on site at any time, proper actions will be taken to remove the plants and prevent the spread of their seeds. I will work with the Forest Service to establish treatment methods to reduce or stop the spread of noxious weeds when new infestations are found. Equipment will be cleaned as described in *section IV-D*.

Slash stockpiled from the original construction will be scattered in the area after seeding. Slash will be spread especially thickly over the areas most likely to experience erosion, such as steep slopes.

I. Fire Prevention. Describe all procedures that will be followed throughout operations to prevent ignition and spread of fire including tools and prevention measures. Also describe (if any) the burning plan for slash that is not used in reclamation.

Plan: The operator, whether or not directed by the Forest Service, will immediately extinguish, without expense to the government, all fires on or in the vicinity of the project area that are caused either directly or indirectly by the operator’s activities or his or her employees’ activities.

Tools: Each employee in the project area will be provided with at least one approved hand tool appropriate for the project area, such as a shovel, pulaski, or ax. All tools will be kept in a sharp and serviceable condition and maintained at locations that are quickly accessible and placed in one or more boxes painted red and marked “Fire Tools Only.”

Each piece of motorized equipment used in connection with the operation will be equipped with serviceable tools and fire extinguishers at all times while operating in the project area. Each piece of equipment will contain: (a) one fire extinguisher, dry chemical type not less than 2.5 pound capacity with a 4 BX or higher rating; (b) one shovel, round point #0 lady or equal; (c) one ax, at least 2 pounds and a minimum 26-inch length (or a pulaski); and (d) one water container of at least one-gallon capacity.

For each chainsaw used, the operator will have one shovel immediately available for use during cutting operations. Furthermore, any fueling of the chainsaw will only be done in an area that has

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first been cleared or is free of all material capable of carrying fire. The chainsaw will be moved at least 10 feet away from the place of fueling before starting.

Equipment: All mechanized equipment with an internal combustion engine will be equipped with functional spark arresting devices approved by the Forest Service. Exceptions where the Forest Service may approve mufflers or other equipment in lieu of spark arrestors are qualified and rated under the Forest Service Standard 5100-1a as follows: (a) small multi-position engines such as chain saws, shall meet Society of Automotive Engineers J335b standards; (b) passenger-carrying vehicles and light trucks may have baffle-type mufflers with tail pipe; (c) heavy-duty trucks may have a vertical exhaust system and muffler, provided the exhaust stack extends above the cab of the vehicle. An exhaust-driven turbocharger is considered to be a satisfactory spark arrestor. All internal combustion engine exhaust systems, arrestors, and other devices will be properly installed and maintained.

Burning: Excess slash and stockpiled brush will not be burned under this Plan, given the small amount of vegetation removal proposed. But I understand that if burning were required under this Plan, before any open burning, the operator will comply with the following:

1. a burning plan, subject to the approval of the Forest Service, which is designed to minimize the impact on air quality and to lessen the risk of fire, will be submitted.
2. obtain a burning permit from the District Ranger.
3. use weather forecasts in scheduling burning for the most favorable dispersal of smoke.
4. slash and brush will be reasonably free of dirt, trash and debris and piled to facilitate rapid and complete combustion. Piles will be tended at all times during burning operations to avoid wildfires.
5. burn sites will be patrolled for a period of two hours after completion of a burn to insure complete fire extinguishment.

J. Recreation. Describe any and all potential effects on recreation resources.

To minimize adverse effects on visitors and dispersed recreation users, we will use existing roads to the extent possible. Vehicular traffic and parking onsite will be kept to the minimum required.

Operations will be conducted during daylight hours only in order to reduce disturbance to any nearby campers caused by noise and lights from the mining equipment.

Signs will be posted around the operating site warning the public of any potential dangers within the project area (i.e. open holes, hazardous material, heavy equipment use, etc.).

K. Public Access, Safety, and Traffic Control. Describe how the proposed operations will not compromise public safety and access to open roads as assigned by the current District Travel Management Plan. Be sure to include traffic control measures if needed for equipment mobilization or haul routes.

Public Access: The right of the public to lawfully use the land encompassed by the boundaries of the mining claims will not be restricted or denied by the operator. The rights of public do not include any

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***** EXAMPLE PLAN OF OPERATIONS FOR LOPE EXPLORATION *****
INDIVIDUAL PLANS WILL VARY DEPENDING ON SITE

activity that interferes with any mining-related activities without the consent of the claimant. The operator, in the exercise of this operating Plan, will require that its employees, subleases, contractors, subcontractors, or renters and their employees comply with all conditions of this Plan.

Safety: All operations will be conducted in a safe manner and in compliance with Mine Safety and Health Administration (MSHA), Occupational Safety and Health Administration (OSHA), and other applicable local, state and federal requirements and guidelines. I understand that failure to abide by these regulations will be grounds for termination of approval for the operating Plan by the Forest Service if the failure to comply presents a significant risk to the health, welfare, or safety of the general public, agency staff, or operator's staff.

Traffic Control: Prior to initiation of earth moving operations or mobilization of equipment into the project area, the operator will submit a Traffic Control Plan to the District Ranger or other Forest Service representative for approval. The plan will be submitted and approved prior to commencement of on-site project work. The plan will include:

- (a) locations of all signs, markers, barricades, and other traffic control devices to be used. The construction / safety signs shall be approved and installed prior to and consistent with the work being performed;
- (b) specifications for signs, markers, barricades, and other traffic control devices in conformance with the latest revisions of the Manual of Uniform Traffic Control Devices (MUTCD) published by the U.S. Department of Transportation; and
- (c) when mechanized equipment is moved on or off public roads, a flag-person will be used to direct traffic and prevent accidents.

L. Interim Shutdown Procedures. Describe the procedures that will be enacted if and/or when a shutdown period is required.

A seasonal shutdown period is anticipated during the winter months. Although the specific date depends upon the arrival of sufficient snow to prevent operations and is therefore currently unknown, the operator will notify the Forest Service when the seasonal shutdown has begun. In addition, short interim shutdown periods will accompany mobilization of equipment out of finished drill sites and into subsequent sites. During the longer seasonal shutdown period, as well as potential unforeseen shutdowns caused by bad weather, the following requirements will be observed:

- All pieces of motorized equipment will be underlain by absorbant spill pads.
- All fuels and other chemicals will be stored in sealed, weatherproof containers. These containers will be placed inside a secondary containment mechanism with a spill capture volume of at least 110% of all the chemicals stored inside it (see section V-G above).
- Sediment control measures such as silt fences will be in place around the downhill side of the sump pit and at any other disturbed areas that pose a threat of contributing to surface erosion. These measures will be inspected prior to the closure and will be adequate to control runoff. Silt fences will be buried at the bottom.
- The gate near the junction of FR 205-UI-UNK will be locked prior to leaving the site. (NOTE: This gate will be locked at all times, including during operational periods).

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INDIVIDUAL PLANS WILL VARY DEPENDING ON SITE

The determination to temporarily suspend exploration and the implementation of the shutdown will be based on the proper functioning of BMPs and on real-time storm and flood forecasting. Exploration will remain suspended until surface runoff and the erosion risks return to manageable conditions and all BMPs are functioning within their design capacities.

The explorational Plan incorporates the following avoidance and minimization mitigation and mining operation safeguards intended to reduce potential high rain and melt water runoff-related impacts: (a) exploration operations will not occur within the ordinary high water line (OHWL) of the drainages adjacent to the operational site and (b) mining operations will not occur when BMPs' proper function is limited by excessive surface runoff.

M. Inspections.

The Plan of Operations will be reviewed and updated at least annually by the operator and the Forest Service.

The Forest Service and the operator will agree on a schedule of inspections designed to ensure that the provisions of the operating Plan are followed. If I am uncertain whether there should be an inspection prior to advancing in operations, I will contact the Forest Service for clearance. I understand that inspections will normally occur at logical stages of development, operation, seasonal and final reclamation as follows:

- After the location of the proposed construction, but prior to any surface disturbing work
- After clearing and slash disposal, but prior to earthwork
- After all earthwork, but prior to drilling. *(This will be employed for sumps, diversions, and erosion control structures. These facilities should be inspected to ensure that materials, compaction, and base preparation for liners are acceptable prior to use. For impounding facilities, the Forest Service may require that percolation / compaction tests be performed prior to use.)*
- After construction of facilities *(also does not apply to this Plan)* and prior to operation
- During operations to ensure all requirements, including fire tools and equipment, are met
- Prior to seasonal shutdown to establish temporary reclamation / stabilization requirements as well as any final reclamation work
- After removal of equipment and facilities
- After backfilling, recontouring, and construction of sediment control
- After spreading topsoil and seedbed preparation, but before reseeding
- After reseeding and fertilization
- Spring and fall each year following reclamation for a two year period to ensure the success of the reclamation effort

I will wait for the completion of each phase of inspections and post-inspection approval before moving on to the next phase of work.

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VI. FOREST SERVICE EVALUATION OF PLAN OF OPERATIONS

A. Required changes/modifications/special mitigation for plan of operations:

B. **Bond.** Reclamation of all disturbances connected with this plan of operations is covered by Reclamation Performance Bond No. _____, dated (mm/dd/yy) _____, signed by _____ (Principal) and _____ (Surety), for the penal sum of _____. This Reclamation Performance Bond is a guarantee of faithful performance with the terms and conditions listed below, and with the reclamation requirements agreed upon in the plan of operations. This Reclamation Performance Bond also extends to and includes any unauthorized activities conducted in connection with this operation.

The bond amount for this Reclamation Performance Bond was based on a bond calculation worksheet. The bond amount may be adjusted during the term of this proposed plan of operations in response to changes in the operations or to changes in the economy. Both the Reclamation Performance Bond and the bond calculation worksheet are attached to and made part of this plan of operations.

Acceptable bond securities (subject to change) include:

1. Negotiable Treasury bills and notes which are unconditionally guaranteed as to both principle and interest in an amount equal at their par value to the penal sum of the bond; or
2. Certified or cashier's check, bank draft, Post Office money order, cash, assigned certificate of deposit, assigned savings account, blanket bond, or an irrevocable letter of credit equal to the penal sum of the bond.

VII. TERMS AND CONDITIONS

- A. If a bond is required, it must be furnished before approval of the plan of operations.
- B. Information provided with this plan marked confidential will be treated in accordance with the agency's laws, rules, and regulations.
- C. Approval of this plan does not constitute certification of ownership to any person named herein and/or recognition of the validity of any mining claim named herein.
- D. Approval of this plan does not relieve me of my responsibility to comply with other applicable state or federal laws, rules, or regulations.
- E. If previously undiscovered cultural resources (historic or prehistoric objects, artifacts, or sites) are exposed as a result of operations, those operations will not proceed until notification is received from the Authorized Officer that provisions for mitigating unforeseen impacts as required by 36 CFR 228.4(e) and 36 CFR 800 have been complied with.
- F. This plan of operations has been approved for a period of _____ or until (mm/dd/yy) _____. A new or revised plan must be submitted in accordance with 36 CFR part 228, subpart A, if operations are to be continued after that time period.

VIII. OPERATING PLAN ACCEPTANCE

- I/ We have reviewed and agreed to comply with all conditions in this plan of operations including the required changes, modifications, special mitigation, and reclamation requirements.
- I/ We understand that the bond will not be released until the Authorized Officer in charge gives written approval.

<input type="checkbox"/> Operator (or <input type="checkbox"/> Authorized Representative)	(Date) (mm/dd/yy)
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IX. OPERATING PLAN APPROVAL

(Name)	(Title)
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(Authorized Officer)	(Date) (mm/dd/yy)
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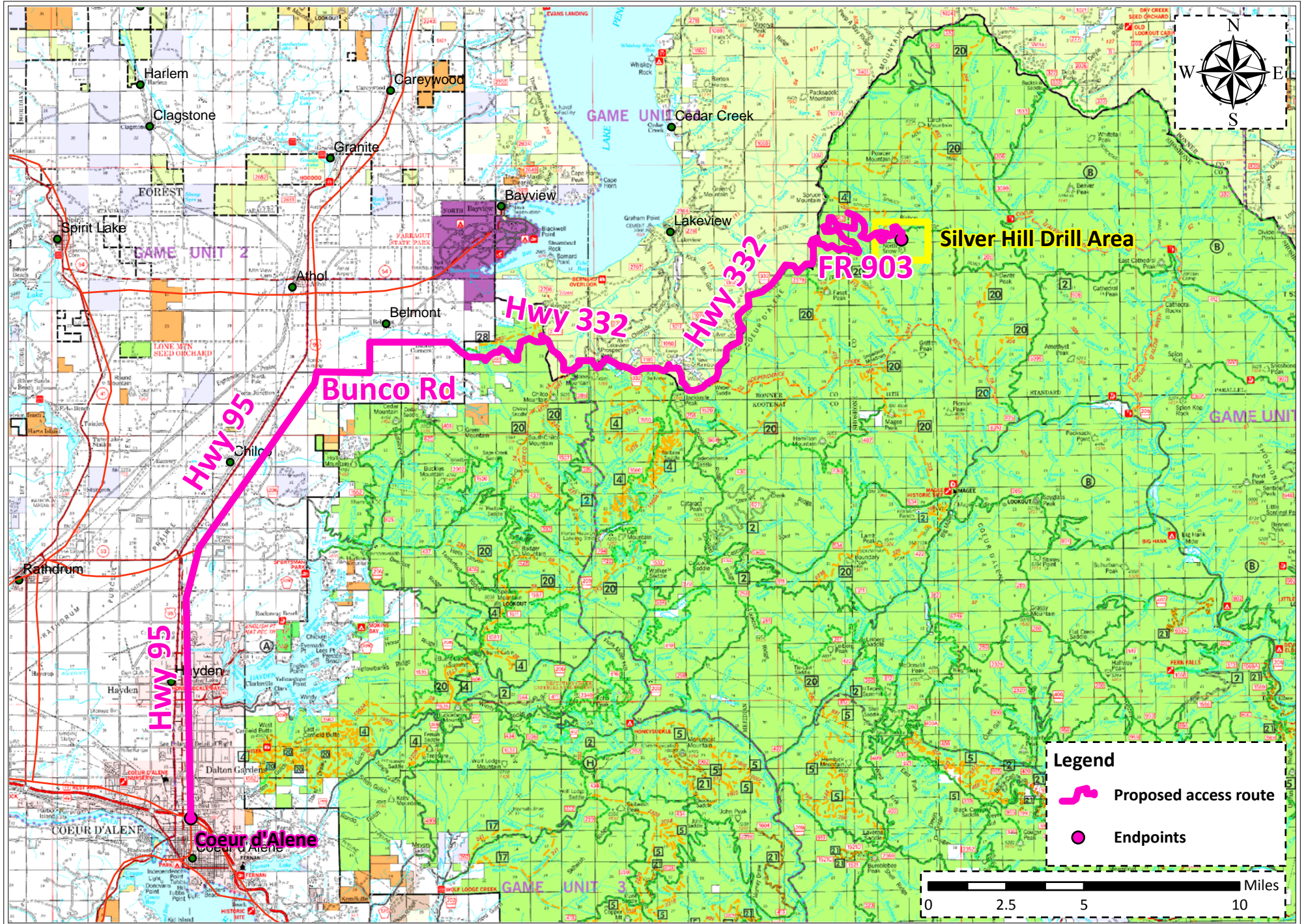
(If more space is needed to fill out a block of information, use additional sheets and attach form)

***** EXAMPLE PLAN OF OPERATIONS FOR LODE EXPLORATION *****
INDIVIDUAL PLANS WILL VARY DEPENDING ON SITE

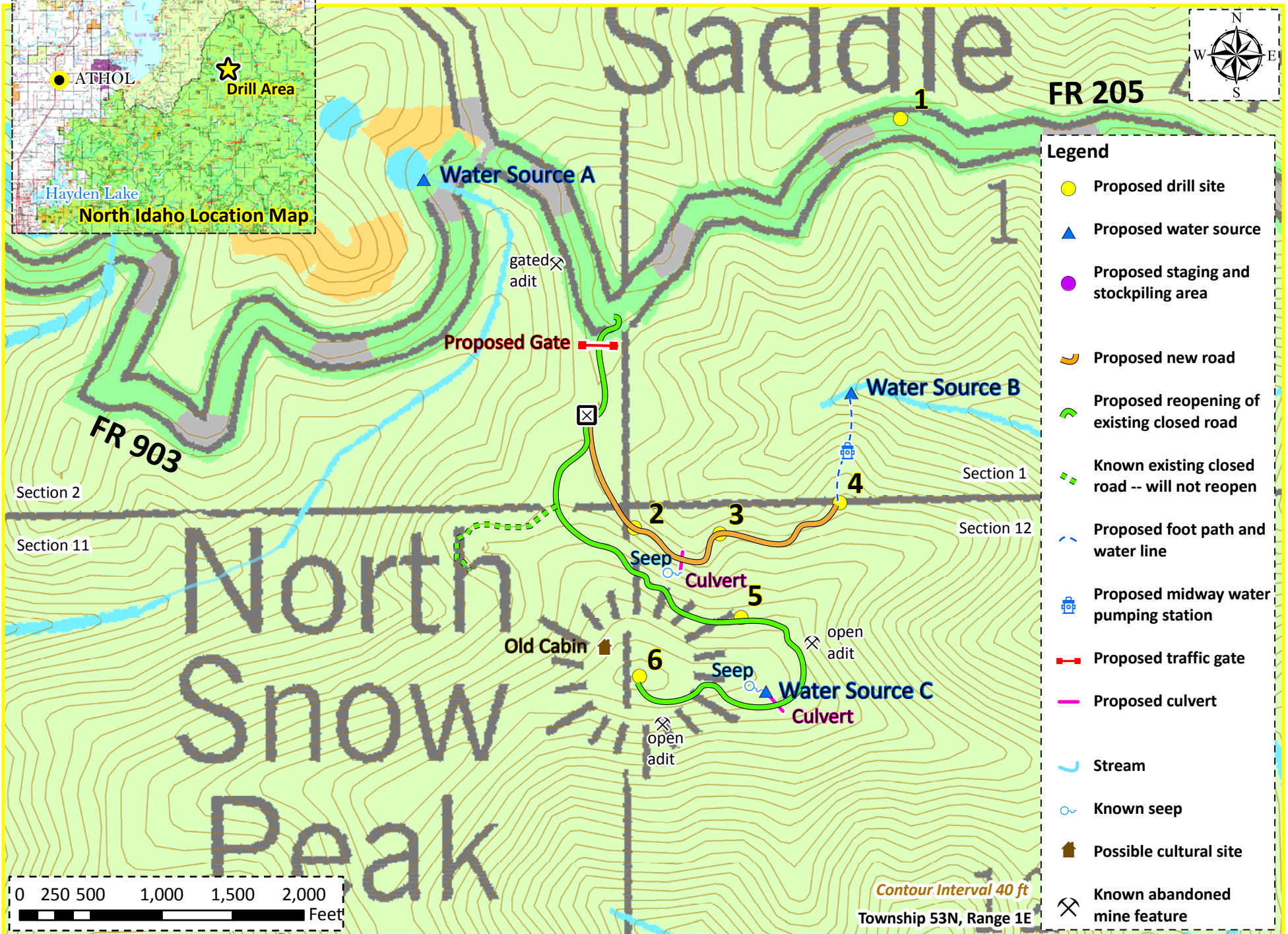
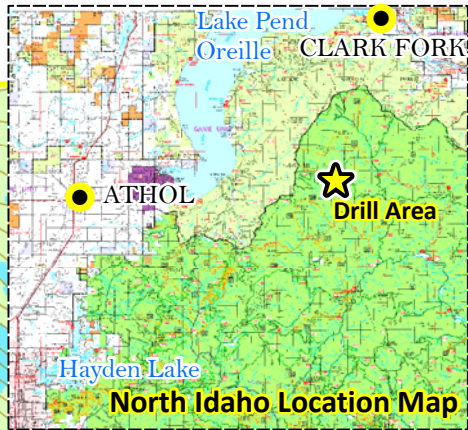
“According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB number. The valid OMB number for this information collection is 0596-0022. The time required to complete this information collection is estimated to average 8 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.”

(If more space is needed to fill out a block of information, use additional sheets and attach form)

Access Routes to Proposed Silver Hill Drill Exploration Area from Coeur d'Alene, ID

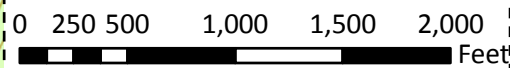


Map of the Proposed Silver Hill Drill Exploration



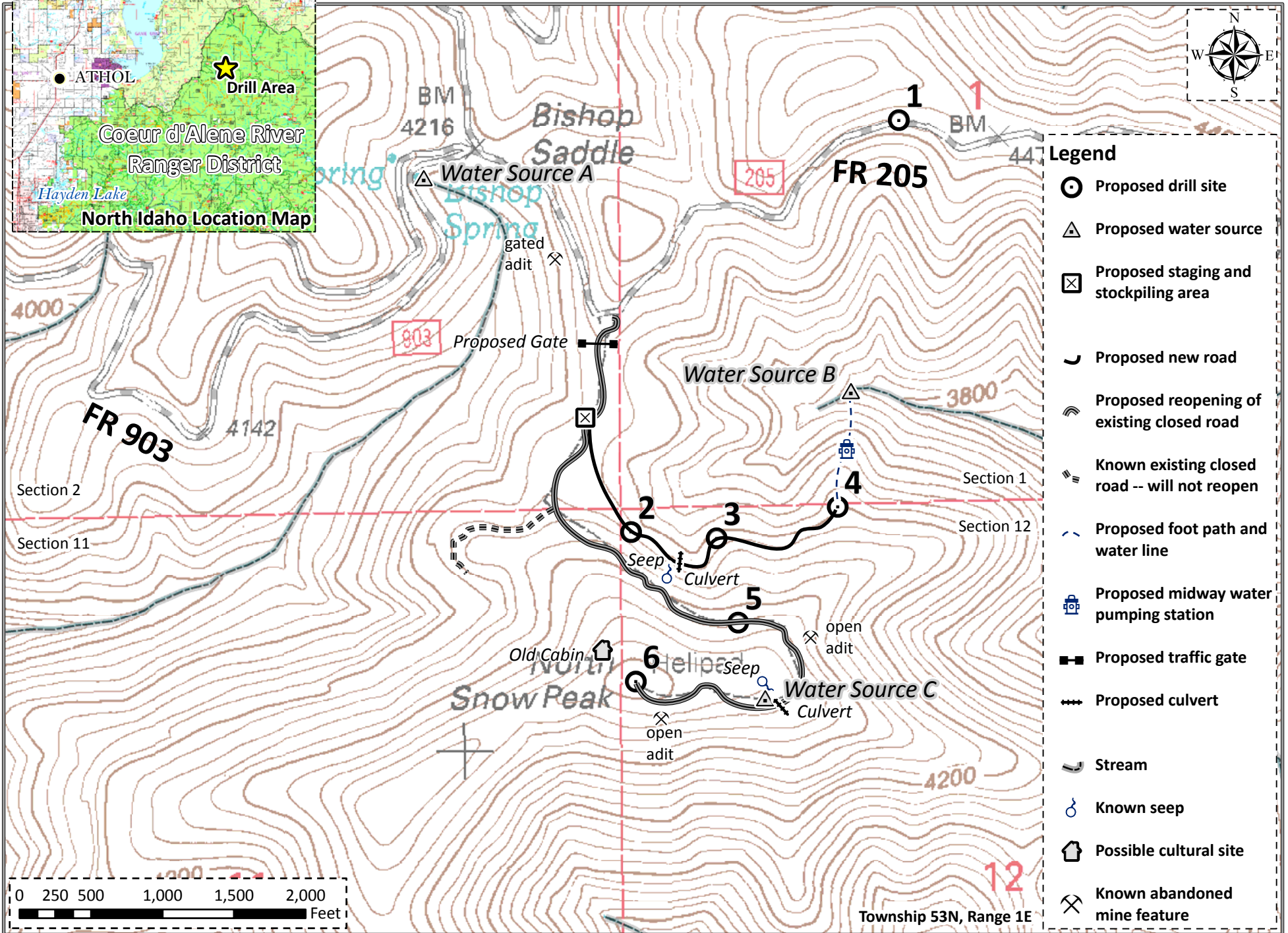
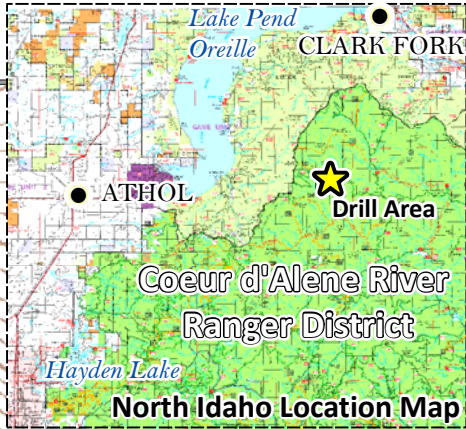
Legend

- Proposed drill site
- Proposed water source
- Proposed staging and stockpiling area
- Proposed new road
- Proposed reopening of existing closed road
- Known existing closed road -- will not reopen
- Proposed foot path and water line
- Proposed midway water pumping station
- Proposed traffic gate
- Proposed culvert
- Stream
- Known seep
- Possible cultural site
- Known abandoned mine feature



Contour Interval 40 ft
Township 53N, Range 1E

Map of the Proposed Silver Hill Drill Exploration



- ### Legend
- Proposed drill site
 - Proposed water source
 - Proposed staging and stockpiling area
 - Proposed new road
 - Proposed reopening of existing closed road
 - Known existing closed road -- will not reopen
 - Proposed foot path and water line
 - Proposed midway water pumping station
 - Proposed traffic gate
 - Proposed culvert
 - Stream
 - Known seep
 - Possible cultural site
 - Known abandoned mine feature

Proposed Silver Hill Drill Exploration Hand Map

SECTION 3

SECTION 2

SECTION 1

SECTION 6



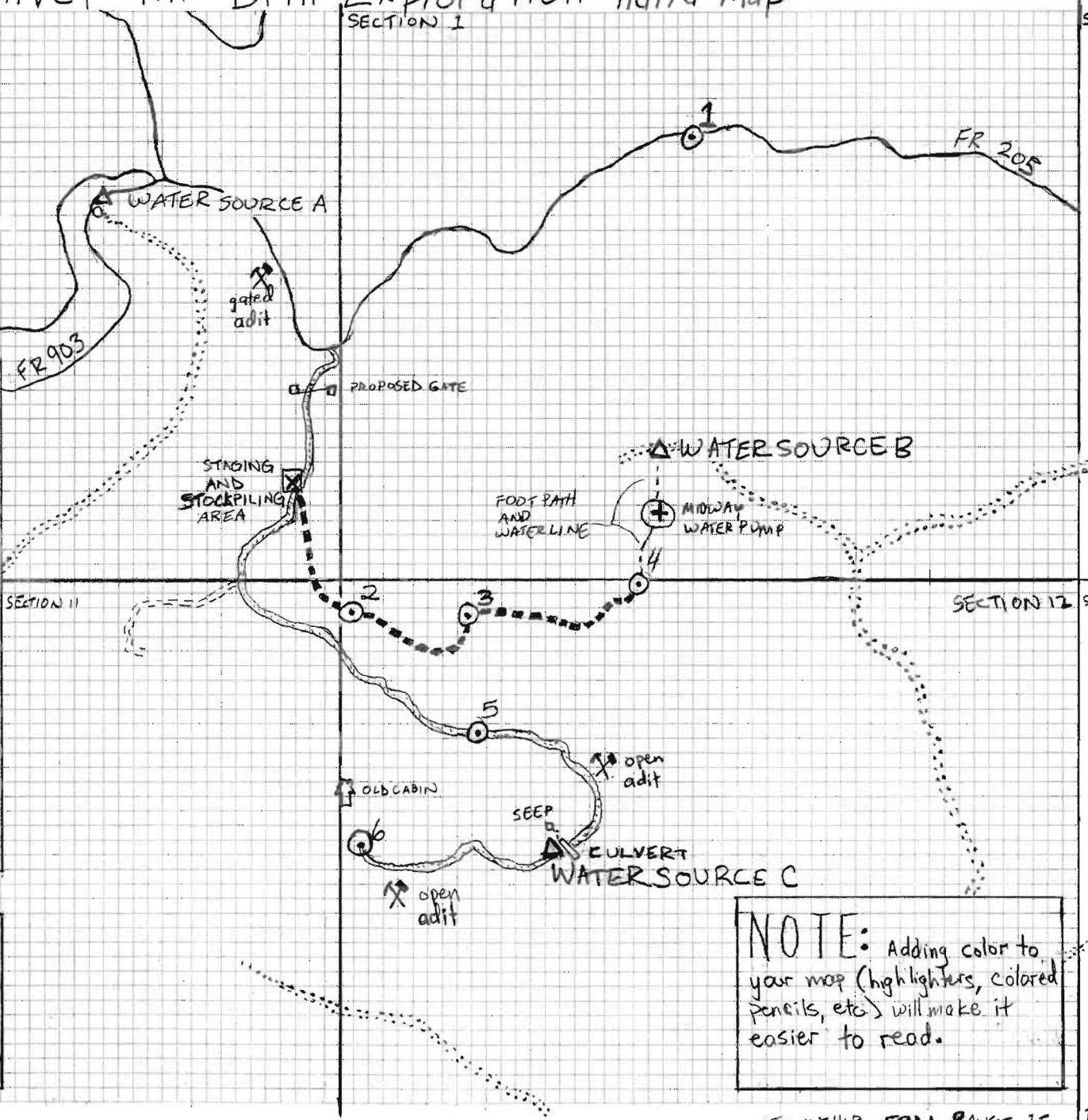
LEGEND

- ⊙ Proposed drill site
- △ Proposed water source
- ~ Existing open road
- Known existing closed road
- - - Proposed new road
- ≡ Proposed road reopening
- ⊢ Proposed traffic gate
- ▬ Proposed culvert
- ↑ Possible cultural site
- ⋯ Stream
- Seep

SCALE

one section equals one square mile

0 500 1000 1500 2000 Ft.



NOTE: Adding color to your map (high lighters, colored pencils, etc.) will make it easier to read.

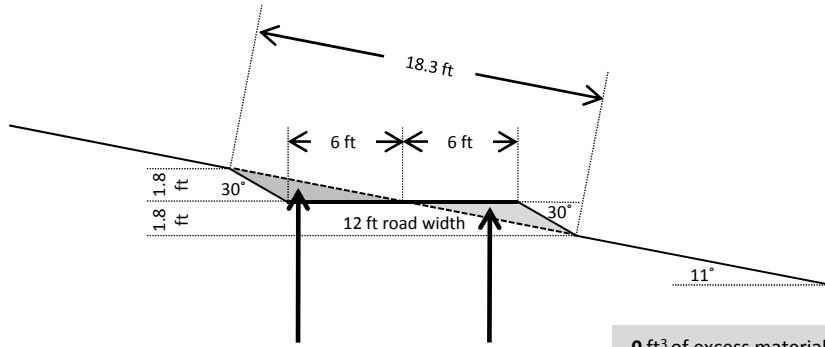
TOWNSHIP 53N, RANGE 1E

TOWNSHIP 53N, RANGE 2E

Free Print: Graph Paper from www.comptech.com/graphpaper.html

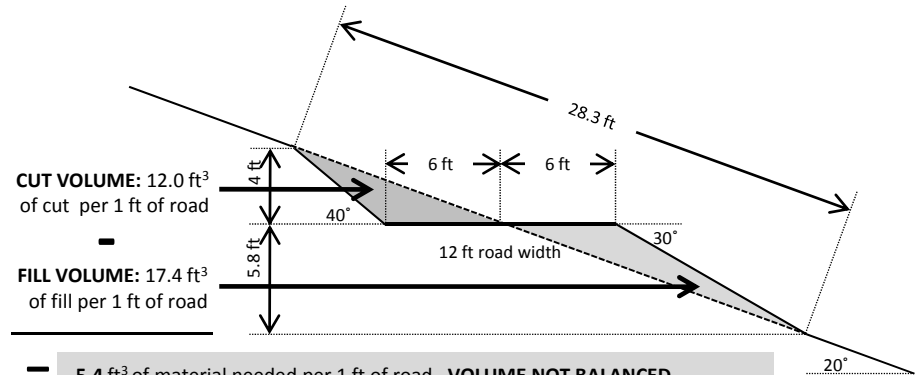
Schematic Cross Sections of Road and Drill Pad Construction on Selected Slopes

12 FT WIDE ROAD ON 11° SLOPE (AVERAGE SLOPE FOR NEW TEMPORARY ACCESS ROAD TO DRILL SITES 2, 3, AND 4)



CUT VOLUME: 5.4 ft³ of cut per 1 ft of road
 FILL VOLUME: 5.4 ft³ of fill per 1 ft of road
 = 0 ft³ of excess material per 1 ft of road. **MATERIAL VOLUME IS BALANCED.**

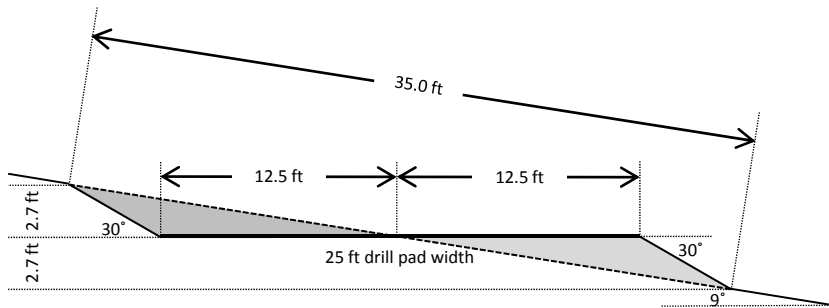
12 FT WIDE ROAD ON 20° SLOPE (MAXIMUM SLOPE NEW TEMPORARY ROAD CONSTRUCTION)



CUT VOLUME: 12.0 ft³ of cut per 1 ft of road
 FILL VOLUME: 17.4 ft³ of fill per 1 ft of road
 = 5.4 ft³ of material needed per 1 ft of road. **VOLUME NOT BALANCED.**

Although the volumes of cut and fill are not equal, road of this steepness is only 45 ft long and sufficient fill material could be brought in. Also, ecology blocks could be installed to reduce the amount of fill needed and the area of disturbance.

25 FT WIDE DRILL PAD ON 9° SLOPE AT DRILL SITE 4 (70 FT LONG)

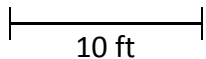


CUT VOLUME: 16.9 ft³ of cut per 1 ft of drill pad. Total of 1181.3 ft³ for 70 ft drill pad length.
 FILL VOLUME: 16.9 ft³ of fill per 1 ft of drill pad. Total of 1181.3 ft³ for 70 ft drill pad length.
 = 0 ft³ of excess material. **MATERIAL VOLUME IS BALANCED.**

TOTAL AREA OF DISTURBANCE FOR SILVER HILL DRILL CORE EXPLORATION PLAN OF OPERATIONS:

-	NEW TEMPORARY ACCESS ROAD TO DRILL SITES 2, 3, AND 4 (2584 FT X 18.3 FT WIDTH):	47,287 ft ²
-	EXISTING ROAD (5292FT X 15 FT TOTAL WIDTH):	81,240 ft ²
-	STAGING AREA (30 FT X 80 FT):	2400 ft ²
-	DRILL SITE 1 ON EXISTING ROAD (12 FT X 90 FT):	1080 ft ²
+ -	DRILL SITE 4 (70 FT LONG BY 35 FT WIDE):	2450 ft ²
=	TOTAL AREA OF DISTURBANCE:	134,457 ft²
	/ 43,560 =	(3.087 acres)

Scale: 1 in = 10 ft



John Doe Gold

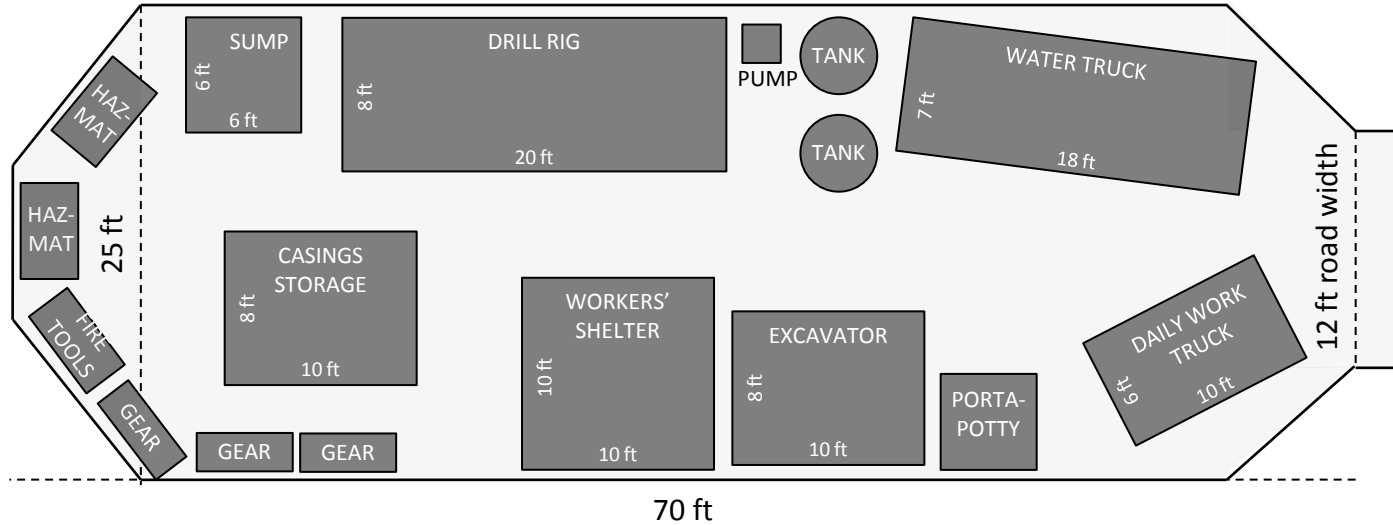
Silver Hill Drill Core Exploration

Submitted March 2010

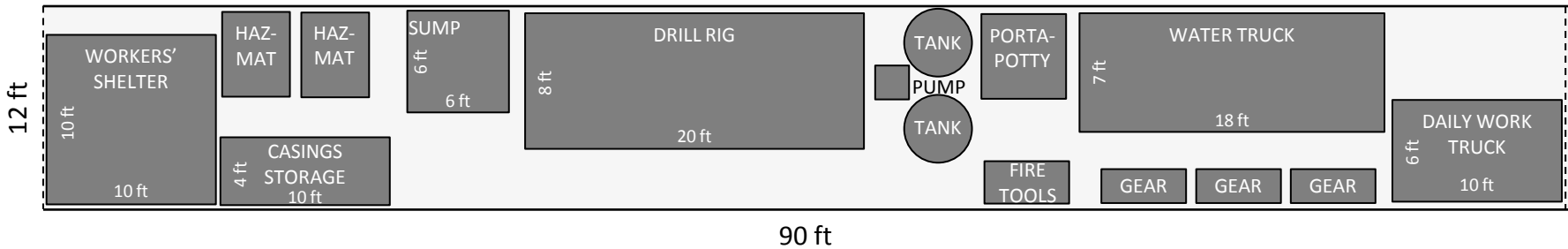
North ↑

Schematic Drawing of 12 ft Wide and 25 ft Wide Drill Site Areas

Typical 25 ft Wide (Road Termination) Drill Site Area

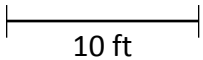


Typical 12 ft Wide (In-Road) Drill Site Area



Plan view

Scale: 1 in = 10 ft



Dave's Drilling

Silver Hill Drill Exploration

Submitted March 2009