

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

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	Jane Gold Claim 1	20	T54N	R4E
555556	Jane Gold Claim 2	29	T54N	R4E

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.

To-scale maps attached showing general location, claim boundaries, stream, existing roads, proposed access routes, proposed new road construction, proposed work on existing roads, trench sites, topsoil stockpile, slash stockpile, overburden stockpile, significant geographic features, known archeological features, township, range, section, etc.

From Highway 95 in Sandpoint, drive north to the stoplight at the intersection of Hwy 95 and Hwy 2 / 200. Stay straight at the stoplight; road becomes Hwy 200 / Hwy 2. Drive 25.4 mi on Hwy 200 / Hwy 2. In the town of Clark Fork, turn right at Stephen Street and then take the third left onto S River Road. Go ~6.7 miles and then turn right at Dry Creek Road / Forest Road (FR) 203. Go ~7.2 miles and then turn right on FR 332. Go ~1.2 miles and then turn left on FR 1533. Drive ~4.4 miles and then turn right on FR 306. Go ~1.1 miles. The placer exploration project is in the Gold Creek drainage, which is on the right (northeast)side of FR 306. One existing access road (FR 3099UB) leads up the drainage from FR 306 but this road is not currently open to motorized vehicle use. A kelly hump is in place near the junction of FR 306 and FR 3099UB but it appears as if some ATV users have bypassed the kelly hump, but have only managed to drive about 30 feet because FR 3099UB is heavily brushed in in most places. All culverts are currently in place on FR 3099UB and there is only one area of noticeable erosion (a segment of about 30ft ~705 ft up the road from the junction with FR 306). Upon completion of the operation, we will close FR 3099UB with the appropriate device (i.e. berm, trees, gate, etc.), as instructed by the Forest Service, to prevent future unauthorized use in this area.

The haul route, from the operational site to the wash plant on a small section of private land slightly northeast of Packsack Point, is 16.8 miles one way. To get to the wash plant from the trench site, head south on FR 3099UB, turn left on FR 306, drive ~11.8 miles, and then turn left on Hwy 208 and drive to the state-approved, privately owned wash plant located on the south side of Hwy 208.

A total of three trench sites and one staging area are proposed for placer gold exploration, but the number and locations of these sites are flexible and we will abide by all applicable regularions to properly permit them. While formulating this Plan of Operations, we took care to position trench sites in such a way

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as to create the minimum possible disturbance. Although we believe that this proposal requires opening the minimum possible amount of existing and new roads, we will incorporate Forest Service input and make any required alterations to reduce our project's impact. 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 trench sites as possible with each section of road. Although we were able to locate both Trench 2 and Trench 3 on a single section of proposed new road, it was impossible to place Trench 1 on this section of road as well. However, we took special care to position Trench 1 in such a way that it did not interfere with an old building foundation and nearby dredge piles that are likely of historical value.

Trench sites (boundaries will be clearly flagged in the field for when Forest Service personnel conduct initial inspections):

- **Trench 1:** SE ¼ Sec 20, T54N, R2E. UTM coordinates (zone 11N, NAD 83): 0557795 E, 5317509 N. This trench is located in the west side of the West Fork of Gold Creek drainage, about 50 ft from the stream channel, and about 920 ft by road from the junction of FR 306 and FR 3099UB. It will be accessed via a **~202 ft segment of new road** which joins the portion of FR 3099UB proposed for reopening ~724 ft by road north of its junction with FR 306 (the extra ~70 ft portion of FR 3099UB to be reopened beyond this new spur road is intended as a turnaround area). The only proposed segment of existing road to be reopened is this **segment of FR 3099UB, measuring 794 ft in total**. The total area of disturbance of this trench area will measure ~80 ft wide X 100 ft long and will be newly constructed at the end of the segment of new road (road segment length does not include the length of this trench area).
- **Trench 2:** SE ¼ Sec 20, T54N, R2E. UTM coordinates (zone 11N, NAD 83): 0557732 E, 5317396 N. This site is located in the west side of the Gold Creek drainage, approximately 50 ft west of the stream channel. The trench will be accessed via a spur road branching off the reopened portion of FR 3099UB about 435 ft by road northeast of its intersection with FR 306. The proposed new temporary spur road accessing this site also serves Trench 3. The total region of disturbance for this trench area will measure ~80 ft wide X 100 ft long (not counted in road length measurements).
- **Trench 3:** SE ¼ Sec 20, T54N, R2E. UTM coordinates (zone 11N, NAD 83): 0557832 E, 5317425 N. This bench placer trench site is located on the southeast side of the East Fork of Gold Creek drainage, about 90 ft from the stream channel. The site is located about 90 ft southeast of the junction of the East and West Forks of Gold Creek. The trench area will be accessed by a **~519 ft long segment of new temporary road** that also serves Trench 2 further to the west. Trench 3 will be located at the far northeast termination of the road. The total region of disturbance of this trench area will measure ~90 ft wide X 130 ft long (road segment length does not include the length of this trench area).

In addition, part of an existing wide turnout on FR 3099UB, to the southwest of the trench sites, will be debrushed to be converted into a **staging area** measuring 40 ft wide NW-SE by 80 ft long NE-SW. This area is on the reopened portion of FR 3099UB about 264 ft by road up FR 3099UB from the junction with FR 306. The staging area will be at UTM coordinates: 0557683 E, 5317354 N and will be constructed on flat ground. As a result, the total area of disturbance for this feature will be no larger than the 40 ft X 80 ft of its floor area. The staging area will be constructed behind a proposed traffic gate that will be emplaced ~110 ft by road up FR 3099UB from its junction with FR 306. The traffic gate will be equipped with a

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double locking mechanism accommodating both a private and a Forest Service lock. This gate will remain locked at all times that authorized traffic is not moving through it, including during trenching operations. Only vehicles belonging to personnel involved in the drilling operation will be allowed to pass through the gate. An additional flattened area measuring ~40 ft wide NW-SE by 80 ft long NE-SW, which will be located immediately to the southwest of the staging area on the same existing wide turnout, will serve as a **log deck**.

721 feet of new road construction, in two sections, is planned to provide temporary road access to the trench locations for the haul truck and excavator (see section IV-D for equipment description). The temporary road will be 12 feet wide, with a maximum grade of 4%, and will include two culverts (see attached map for more information). 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 culvert and road will be recontoured and reclaimed immediately following operations (see section IV-C for road construction details). All of these new roads will traverse moderately or shallowly sloping hillsides (average total slope ~17% -- see below for estimated area of disturbance for new roads and the average steepness of each of the two individual sections proposed). 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 ~35 ft long on the new access road leading to Trench Sites 2 and 3, about 85 ft east by road of the junction with FR 3099UB and slightly west of Trench 2, 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 measuring ~40 ft long on the proposed new access road leading to Trench Site 1 will require an unusually large amount of fill material due to a small dry gully. This area is located about 65 ft northeast by road of the intersection of the new road and FR 3099UB. 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.

In addition, **794 feet of existing road will be reopened** to provide temporary road access to the trench locations. Only a single segment of FR 3099UB will be reopened. A prominent kelly hump near the junction of FR 3099UB and FR 306 will be removed to emplace the road. This will require some blading work with a bulldozer or excavator. A Forest-Service-approved gate will be installed in its place (see above).

Overall, the section of FR 3099UB to be debrushed is sparsely-moderately overgrown by mostly larch and white pine trees having an estimated average age of about 15 years. Most sections of road will require only debrushing and, perhaps, minor blading. However, one section of road will require moderate blading due to material covering the road from small mass wasting events. The first of these sections is ~220 ft up FR 3099UB from the junction with FR 306 and measures ~50 ft long. The other section is ~535 ft up FR 3099UB from the junction with FR 306 (~50 ft northeast of the proposed staging and stockpiling area) and

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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.

Water bars and additional culverts beyond those proposed in this Plan may be installed where deemed appropriate by the Forest Service, both on new and reopened temporary roads. The excavator and dump trucks will be brought into the site on a lowboy using the proposed access route. Two trailers carrying small equipment will be brought in by pickup truck via this route.

Maintenance of Forest roads outside the claim 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.

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.

Attached **to scale** maps show general location, streams, existing roads, proposed access trails, proposed new temporary road construction, proposed road work, trench sites, staging area, log deck area, total area of disturbance, significant geographic features, known archeological features (including dredge piles and adits), township, section, range, etc.

Additional **to scale** diagrams also show the proposed layout of trench sites, including the locations of silt fences, the stream channel, old dredge piles, sediment stockpile, separate topsoil stockpile, and slash stockpile.

Additional attachments include **to scale** engineered cross sections and map view diagrams of the trench sites and areas of new road construction, including the cut bank, fill slope, road bed / trench site, and 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: The proposal is for placer exploration involving the excavation of three trenches on the Jane Gold Claim (#555555) in the Gold Creek drainage. The purpose of the exploration proposal is to establish accurate volume measurements and feasibility of a potential mining operation on this claim. This

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project will occur over a 5-week period, with operations proposed to begin in late summer or early fall. The area is generally driest during this period and operating during the dry season will help reduce impacts on the Gold Creek drainage.

The trenches will be excavated to bedrock. Trenches 1 and 2 will be excavated from a location ~50 ft from the stream channel to near the toe of the slope. Trench 3 will be excavated in the bench slightly above the stream channel and will extend from near the front edge of the bench to the toe of the main slope. A 50 foot stream buffer will be implemented (as directed by the Inland Native Fish Strategy, 1995) to protect and prevent damage to the stream bank, water quality, and the aquatic habitat in Gold Creek because it flows year round. (Note: if work is planned within the stream channel, a complete restoration plan needs to be included.) A silt barrier will also be constructed between all operational areas and the stream channel (see map & section V-B). All topsoil, slash, and overburden gravel will be separately stockpiled (see map for stockpile location) and used in reclamation (see Vegetative Removal below & section V-H). The "pay" gravel will be removed and transported to the local privately owned washplant (see section IV-A) for processing. Washed gravel will be returned to the site for ongoing and concurrent reclamation. State of Idaho BMPs will be employed to minimize impacts and disturbance.

The trenches dug at sites 1 and 2 will each be 80 feet long X 10 ft wide. Trench 3 will be 100 ft long X 15 ft wide. To accommodate safety and stockpile storage, the total disturbed area at sites 1 and 2 will be 100 ft X 80 ft = 8000 ft² (see attached diagrams for layout of all features, including the digging area, for each the sites). At Trench Site 3, the total disturbed area will measure 130 X 90 ft (total area = 11,700 ft²). **The combined total area of disturbance for all three trench areas will be 0.636 acres** (8000 ft² + 8000 ft² + 11,700 ft² = 27,700 ft²).

The log deck and staging areas will be adjacent to one another and will occupy an existing wide turnout on FR 3099UB. Each feature will measure 40 X 80 ft, for a total area of 160 X 80 ft for both adjacent features. These features will be fully reclaimed upon completion of operations. **The total combined area of disturbance for these two storage features, not counting the adjacent portion of FR 3099UB to be reopened, will be 0.294 acres** (160 ft X 80 ft = 12,800 ft²).

The combined total distance of the two sections of new temporary access road will measure 721 ft. These roads will have a 12 ft driving surface width. Overall the average width of disturbance for both sections of road, based on dozens of slope measurements taken at regular intervals along both future road paths, is 17.5 ft. This includes cut bank and fill slope. (The average width of disturbance for only the 202 ft of new road accessing Trench Site 1 is 18.3 ft; the average width of disturbance for the 519 ft of new road accessing Trench Sites 2 and 3 is 17.1 ft. This results in a total area of disturbance of 3697 ft² for the road accessing Trench 1 and 8875 ft² for the road accessing Trenches 2 and 3.) These numbers are based on an overall average slope of 10° for all sections of new road construction (11° for the road accessing Trench Site 1; 9° for the road accessing Trench Sites 2 and 3). It should be noted that there is one particularly steep section of ~20° maximum slope measuring ~45 ft long on the proposed new temporary access road leading to Trench Site 1. This section is approximately 105 ft southwest of Trench Site 1). **The total area of disturbance for all new temporary road construction will be 0.29 acres** (3697 ft² + 8875 ft² = 12,572 ft²).

In addition, 794 ft of existing closed road FR 3099UB will be reopened. The average road width will be 12 ft but the total width of disturbance will be 15 ft to accommodate a vegetative clearing and trimming on

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both sides of the road for easier and safer vehicle travel. **The total area of disturbance of all existing road will therefore be 0.273 acres** (794 X 15 ft = 11,910 ft²).

By adding all of these vaules, the **total combined project disturbance area will be 1.492 acres** (64982 ft²). However, due to concurrent reclamation, **no more than 1.0 acre will be disturbed at any time.**

To minimize the risk to public safety and reduce visual impacts, all test trenches will be backfilled with the material in the same order as it was removed (washed gravel on the bottom, then overburden, and covered with topsoil) immediately upon completion. All disturbed areas will be recontoured with stockpiled materials and revegetated as instructed by the Authorized Representative and in accordance with State BMP guidelines (*refer to Reclamation Section (V-H) for further details*).

An average of 3 people will be onsite during operations, including a geologist, the excavator operator, and the haul truck driver. We propose working 10-hour days, 5 days per week during the early fall season.

Material Volume and Production Rates: Our prospecting, in addition to other previous mining in this area, has indicated an average bedrock depth of 15 feet and an average overburden of 6 feet in the valley areas that will be excavated at Trench Sites 1 and 2. In the bench area in which Trench 3 will be excavated, the average bedrock depth is 23 feet and the overburden is 13 feet deep. Therefore, the best estimated volume of material based on current geologic knowledge of the area is:

TRENCHES 1 AND 2:

Material	Area of disturbance (ft ²) x	Depth (ft) x	Swell (%) =	Volume of Stockpile at Each Trench (ft ³)
Topsoil	80 X 10 = 800	1	25	1000
Overburden	80 X 10 = 800	6	35	6480
Pay gravel	80 X 10 = 800	8	25	8000
Total stockpile (overburden + topsoil) needed at each trench:				7,480 (277 yd³)

TRENCH 3:

Material	Area of disturbance (ft ²) x	Depth (ft) x	Swell (%) =	Volume of Stockpile at Trench 3 (ft ³)
Topsoil	100 X 15 = 1500	1	25	1875
Overburden	100 X 15 = 1500	13	35	26,325
Pay gravel	100 X 15 = 1500	9	25	16,875
Total stockpile (overburden + topsoil) needed at Trench 3:				28,200 (1044 yd³)

Please note that these values are best estimates and are subject to change once the subsurface geology is exposed. If it appears that exploration activities will result in significant volume increases and/or change in clearing area and stockpile volumes, a modification to the Plan will be submitted.

Excavation will temporarily stop until approval on the modified Plan is obtained from the Forest Service. Any excess material resulting from road construction will be stored at the main staging area or used as fill for the staging and log deck areas.

Based on the pay gravel calculations above, approximately 32,875 cubic feet (8000 ft³ + 8000 ft³ + 16,875 ft³ = 32,875 ft³ = 1218 yd³) of pay gravel will be hauled to the wash plant. This will require ~82 round-trips with a 15 yd³ dump truck (*see section IV-B for equipment details*). The gravel will be washed

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over the course of nine days.

Vegetative Clearing: Approximately 724 trees with a diameter at breast height of 4 inches or greater will be removed prior to operations from the following locations:

- 12 trees from Trench Site 1
- 7 trees from Trench Site 2
- 23 trees from Trench Site 3
- 308 trees from the segment of new road accessing Trench Site 1
- 193 trees from the segment of new road accessing Trench Sites 2 and 3
- 181 trees from the segment of FR 3099UB proposed for debrising and reopening work

The trees intended for removal will be marked with a prominent spray paint mark 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 a prominent 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 operations. All merchantable timber (merchantability may include trees with a diameter at breast height of as little as 4 inches) felled during the operation that is not used in the conduct of the mining operations as permitted by the 1872 mining laws and other pertinent statutes 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 the designated log deck (see attached maps) for disposal or sale by the Forest Service. All merchantable trees within the operational boundaries will be marked by the Forest Service prior to operator clearing and the operator will not remove the marked timber until given authorization by the Forest Service.

All limbs, unmerchantable trees, and brush will be used as woody debris for reclamation and erosion control purposes. If approved, the unused slash will be burned (see section V-1 below) (burning bays will be required in dense timber) without damage to standing live trees and any physical improvements such as buildings, poles, fences, signs, tables, grills, and cattle guards. Piles will meet standard specifications for size, be located in existing clearings (or as designated by the Forest Service), be situated a minimum of 10 feet from the drip line of standing trees, and be dirt free. If conditions make it impracticable to locate piles where damage to live trees and physical improvements cannot be avoided, a space will be cleared as designated by the Forest Service. Piles will not be made on main traveled roads, in drainage ditches, below high water marks, or in live or intermittent stream courses. If slash amounts created from an operation are low, the piling requirements can be waived and the slash treated by lopping. Slash or unmerchantable trees may only be buried for disposal with Forest Service approval. Disposal of all slash and reclamation of disturbed areas will proceed concurrently with the exploration operation.

Stumps will be pushed up and piled with the rest of the slash. It will eventually be used in the reclamation. Some stumps will be partially buried in reclaimed topsoil to help hold the soil in place and prevent erosion.

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Road Construction: Access to the site will use existing roads but ~721 feet of new temporary road will also be built as access to the trench locations. 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 no earthen excavation or fill. 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 phase of operation (expected to haul 82 round trips), but will be constructed only if necessary to maintain slope stability and eliminate excess erosion. Standards for these roads will meet or exceed those required for forest development roads, based on requirements of the Mine Safety and Health Administration (MSHA).

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. Right-of-way timber will be cut and handled as stated above in *Vegetative Clearing*. Vegetative clearing for road construction will be sufficient to allow construction of the road surface, avoiding incorporating slash in the fill slope, and removing any 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 on the attached maps or used as fill for additional road work. When building new roads, trench areas, the staging and stockpiling area, or the log deck, 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 (see *section V-H*). Road drainage structures (i.e. rolling dips, water bars, etc.) will be installed as needed and will be subject to approval by the Forest Service. I understand that the Forest Service may require me to repair or revise these features as they become damaged or as new conditions arise during operations. The location of the culverts 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 gates and / or permanent closure mechanisms 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 new temporary road construction will be fully reclaimed and recontoured, to the extent practicable, back to the original contour and revegetated with native plant species as specified in *section V-H*. Culverts will be removed unless directed otherwise by the Forest Service. Trench areas, the log deck, and the staging area will also be fully recontoured and reseeded. All reclamation of new road construction, trench areas, the log deck, and the staging and stockpiling area will involve the emplacement of overburden or other fill on the bottom, with a layer of topsoil placed on top. **Topsoil will not be mixed with overburden or any other aggregate.**

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

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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, diversion ditch installation, and trench excavation. The excavator has a ½ yd bucket and a digging depth of 20 feet. This piece of equipment is also called a trackhoe.

Bulldozer (Caterpillar D9 - rented): Used for topsoil stripping, overburden removal, and reclamation grading. The bulldozer has a blade width of 7 feet.

Haul Truck (Moxy 15 ton – operator owned): Used to haul materials during operations. The truck has a 15 cubic yard dump box. See project description (*section IV-C*) for an estimated number of haul trips.

Hydroseeder (Finn T-170 - rented): Used for reclamation. The truck has an 1800-gallon tank. This piece of equipment will only be onsite during the reclamation stage of operation.

ATV (Honda ForeTrax Recon - operator owned): Used for onsite travel and transportation of supplies.

Chainsaw (Stihl 440 – operator owned): Used to clear site of trees.

Water Pump (Wayne Pump PLS100 – rented): Used to pump intercepted groundwater from the test trenches into a sprinkler system / drip hose setup. The pump has a 1 HP engine and can pump 720 gallons per hour.

The wash plant is state-approved and privately owned on private land approximately 3.4 miles to the west of the proposed exploration site. The wash site consists of a trommel, a 20-foot-long conveyer belt, water pumps, etc. The wash plant has a processing capacity of approximately 50 cubic yards of material per hour (~500 yd³ per day).

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

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

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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, and haul truck) will be stored onsite during operational periods – and removed during interim shutdown.

Operational staff living quarters will be at a local campground on private property or at a motel in Clark Fk. We will follow the Idaho Panhandle National Forests' 14-day camping limit rule if it becomes necessary to camp onsite during the operational period. I understand that I must receive an extended / industrial use camping permit and submit a modification to this Plan if I later decide to camp on the National Forest for longer than 14 days.

A temporary, portable self-contained "port-a-potty" will be utilized onsite and located on flat pullout on the unnamed road adjacent to the mining claim (see section V-C and map for location). This will have weekly cleaning contracted with the rental agency.

No fuel will be stored onsite – it will be brought to the site daily as needed via pickup truck.

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 topsoil, overburden and ore stockpiles during periods of extremely dry weather to prevent a decrease in air quality due to dust emissions. All trucks transporting material to and from the wash plant site will be tarped to prevent dust emissions during transport.

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, if approved and needed (see section V-I), will be conducted only when favorable water and wind conditions exist.

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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 (see map for locations). 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 operations has been permitted by the Idaho Department of Water Resources (IDWR) for use at the state-approved washplant, which is privately owned and located nearby on private land. The water will be extracted from Gold Fever Creek. We will mail the Forest Service a copy of the wash plant's IDWR and IDL permit before beginning operations.

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 because the 50 ft stream buffer and BMPs will be strictly followed. But 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.

Specific methods used will depend on test trench locations, but will typically consist of a weed-free straw bale barrier around the perimeter of all open cuts and areas of open ground disturbance (Placer Mining BMPs Chapter VI). In addition, temporary swales or sedimentation traps may be necessary and will be placed where appropriate and in conformance with Idaho Construction Stormwater BMP procedures (Chapter IV). Construction of sedimentation traps will be consistent with state and federal regulations and will be reviewed and approved by the Authorized Representative prior to their construction. Sediment

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traps and barrier systems will be inspected weekly and more often as necessary during periods of inclement weather. Accumulated sediment will be periodically removed and buried in open cuts as needed. Brush sediment barriers will be constructed from slash and material removed from decked trees (Placer Mining BMP Section V) and used in areas with greater likelihoods of erosion and rilling.

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.

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 Authorized Representative and we will apply for and provide the Forest Service with the necessary Idaho Stream Alteration Permit.

Groundwater is expected to be intercepted during operations, likely <10 feet below the surface. Based on the volume of surface flow (intercepted ground water flow) just below the proposed site, it is anticipated that a moderate volume (150 gallons per hour) of groundwater will be encountered. The intercepted groundwater will be pumped out of the trench using a PLS100 (see section IV-D) into 500 feet of drip line and 3 sprinklers that will distribute the water down gradient across the surface, allowing for ground infiltration (see attached map for location of hose lay). Due to the porous nature of the soil and the moderately thick surface vegetation in this area, ponding or excessive runoff is unlikely using this method. Therefore, the intercepted groundwater will not be pumped directly into the stream.

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

Although shutdown periods are not anticipated under this Plan (see section V-L), the operator will conduct regular inspections of the site's erosion control system and the Forest Service will be notified if any shutdown periods occur. The inspections will be at least monthly during interim shutdowns. If there is a prolonged period of inactivity (>30 days) at the site, all open cuts will be stabilized by backfilling to the angle of repose and disturbed areas covered with an appropriate soil stabilization method (weed-free mulch or topsoil and seed).

5. No waste water will be generated on site. Intercepted groundwater will be applied to the land, as described above (see 3).

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 onsite or on National Forest System lands.

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Operations staff will use a portable self-contained "porta-potty", which will be placed out of sight of any open roads on a non-sloping portion of the unnamed road adjacent to the site. The portable unit will be emptied at least biweekly and will be of sufficient size to meet OSHA workplace requirements. Alternatively, the operations staff may use established sanitary facilities on adjacent private property.

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 receive significant public traffic. However, to minimize visual impacts, a buffer zone of trees and existing shrubs at least 50 feet wide will remain adjacent to the road. The project area will be kept clear of trash and debris, and equipment will be parked in an area out of visual site range of the road at all times. Biodegradable ribbon will be used and any ribbon and / or other materials not necessary for the operation will be removed from National Forest System Lands. At the end of the project, all material (including ribbon) not necessary for claim monumentation will be removed. The area of use will be maintained to present a clean, orderly, and natural appearance. Operations will be located far enough from the main road, FR 306, that the public will not likely be able to hear trenching work.

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 impacts will be minimized through the use of BMPs and timely reclamation. 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).

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

Installation of two temporary culverts along the 794 feet of reconstructed temporary road will be in compliance with federal and state regulations and be approved by the Forest Service. The culvert will have a diameter adequate for accommodating all anticipated water flow and for proper fish passage.

Removal of trash from the site will occur on a regular basis to reduce the possibility of wildlife interaction.

No operations will be conducted until fish and wildlife clearance has been obtained. If the fisheries or wildlife specialists prescribe 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.

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

There are currently no known cultural resources at the operation site, although some sites have been identified downstream of the work area. No activities will be conducted until consultaion has been completed under Section 106 of the National Historic Preservation Act evidenced by a project completion memo. If during operations, a discovery of cultural objects, structures or features occur, the operator will immediately suspend operations and notify the Forest Service of the discovery. The operator will not damage, alter or destroy any object of antiquity, historic 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.

Outside of standard diesel and gasoline fuels and lubricants, no hazardous chemicals or materials will be used in the mining or ore processing activities. A limited amount of fuel will be contained in the fuel tanks of the equipment used 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 261 gallons:

Track-Mounted Excavator – 40 gallons

Bulldozer – 50 gallons

Haul Truck – 90 gallons

Hydroseeder – 20 gallons

ATV – 5 gallons

Chainsaw – 1 gallon

Water Pump – 5 gallons

Pickup Truck (2) – 25 gallons ea, 50 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 onsite. 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 daily 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 operations. Empty fuel containers will be disposed of properly at the county landfill. Fire extinguishers will be kept in the pickup trucks, in the excavator, in the spill kit beside the water pump, and at at least one

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other location near the work area. These fire extinguishers will be inspected regularly, as recommended by the manufacturer and applicable laws (see section V-I 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. Spill pads or leakproof metal or plastic trays will also be placed under fuel cans or other chemical containers if these cans are not stored inside leakproof secondary containers.

All chemicals stored at the site, including fuel, lubricants, and others materials, will be stored in leakproof metal or plastic secondary 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 at any time there is a release of hydrocarbons, 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 immediately after containing the release of the time, date, location, and the extent of the release. 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 on site will be parked away from areas of steep slopes, and gear boxes and fuel tanks will be underlain with absorbent pads.

The Forest Service will be provided with a copy of the operator's spill control and prevention plan.

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, facilities or settling ponds to remove and reclaim. 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 721 ft of new temporary access road, including one culvert, will be reclaimed to pre-operational

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condition. In addition, the 794 ft of reopened road will be closed to public use and the culvert will be removed unless directed otherwise by the Forest Service. All road closure mitigation plans 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 3099UB near the junction with FR 306, 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 specified location when instructed by the Forest Service.

Topsoil: Prior to any ground work, topsoil will be inventoried for volume and reclamation suitability. Topsoil or suitable growing medium will be removed from areas to be affected by surface disturbance in quantities sufficient to allow a minimum of 12 inches of topsoil or combination of topsoil and subsoil to be redistributed over all disturbed areas. This does not include areas disturbed by low-impact roads, vegetative clearance buffers, or other activities that do not involve earthen excavation or fill work.

Topsoil will be stripped and piled separately from other vegetative slash or stumps to use in later reclamation (unless volumes are very low and / or the Forest Service determines it would be beneficial to incorporate such material). The topsoil will be stored in shallow piles or windrowed and will be stabilized with tarps and / or seeded to help reduce noxious weed establishment during operations. The location of the stockpile will be determined in agreement with the Authorized Representative and will be sheltered from wind and water erosion, unnecessary compaction, and contaminants.

Re-Vegetation: Soil on areas to be seeded will be left in a roughened condition favorable to the retention and germination of the seed. Disturbed areas will be revegetated with appropriate District approved, noxious weed-free seed mixes following operations (FSM 2081.2). Reclaimed sites will be monitored by the operator (and FS) 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, as required by the FS.

A seed mixture that promotes rapid ground cover and long term stability will be formulated based on site specific conditions by the FS District Botanist. 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 along with a list of potential distributors of appropriate seed mixtures.

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

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Timing of reseeding 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, other 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. Consultation will be made with the Forest Service for the most current standard seed mixes and 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 either caused directly or indirectly by the operator's activities or his employees' activities.

Tools: The operator shall provide for each employee in the project area at least one approved hand tool of type 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 unit or power 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 not used in an erosion control barrier construction and / or reclamation will be burned; however, burning is not expected in this Plan given the small amount vegetation removal proposed. Before any open burning, the operator will comply of 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 piles 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 utilize 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 right of public does not include

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any 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. Failure to abide by the requirements of these regulations will be grounds for termination of approval of the operating Plan by the Authorized Representative if the failure to comply presents a significant risk to the health, welfare of 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 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 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.

There will not be any interim or seasonal shutdown periods in this Plan. However, if a shutdown were expected, the following would be applicable:

- The operator would notify the Forest Service prior to the start of the shutdown period.
- All pieces of motorized equipment would be underlain by absorbant spill pads.
- All fuels and other chemicals would be stored in sealed, weatherproof containers. These containers would 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 would be in place around the downhill side of the trench areas and at any other disturbed areas that pose a threat of contributing to surface erosion. These measures would be inspected prior to the closure and will be adequate to control runoff. Silt fences would be buried at the bottom.
- The gate near the junction of FR 306 and FR 3099UB would be securely locked prior to leaving the site. (NOTE: This gate will be locked at all times, including during operational periods).

The determination to temporarily suspend exploration, and the implementation thereof, 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 stream flow return to manageable conditions, and all BMPs

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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 (ONWL) 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 Authorized Representative of 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 Authorized Representative 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 topsoil and overburden stripping and storage, but prior to further excavation and construction
- After all earthwork, but prior to use. *(this does not apply to this Plan - but would be used in the regards to settling ponds, 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 percolation / compaction tests be performed prior to use.)*
- After construction of facilities *(also does not apply to this Plan)*, prior to operation
- During operations to ensure all requirements, including fire tools and equipment, are met
- Prior to seasonal shutdown *(if any)* 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.

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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

- / 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.
- / We understand that the bond will not be released until the Authorized Officer in charge gives written approval.

 Operator (or Authorized Representative)

(Date)
(mm/dd/yy)

IX. OPERATING PLAN APPROVAL

(Name)

(Title)

(Authorized Officer)

(Date)
(mm/dd/yy)

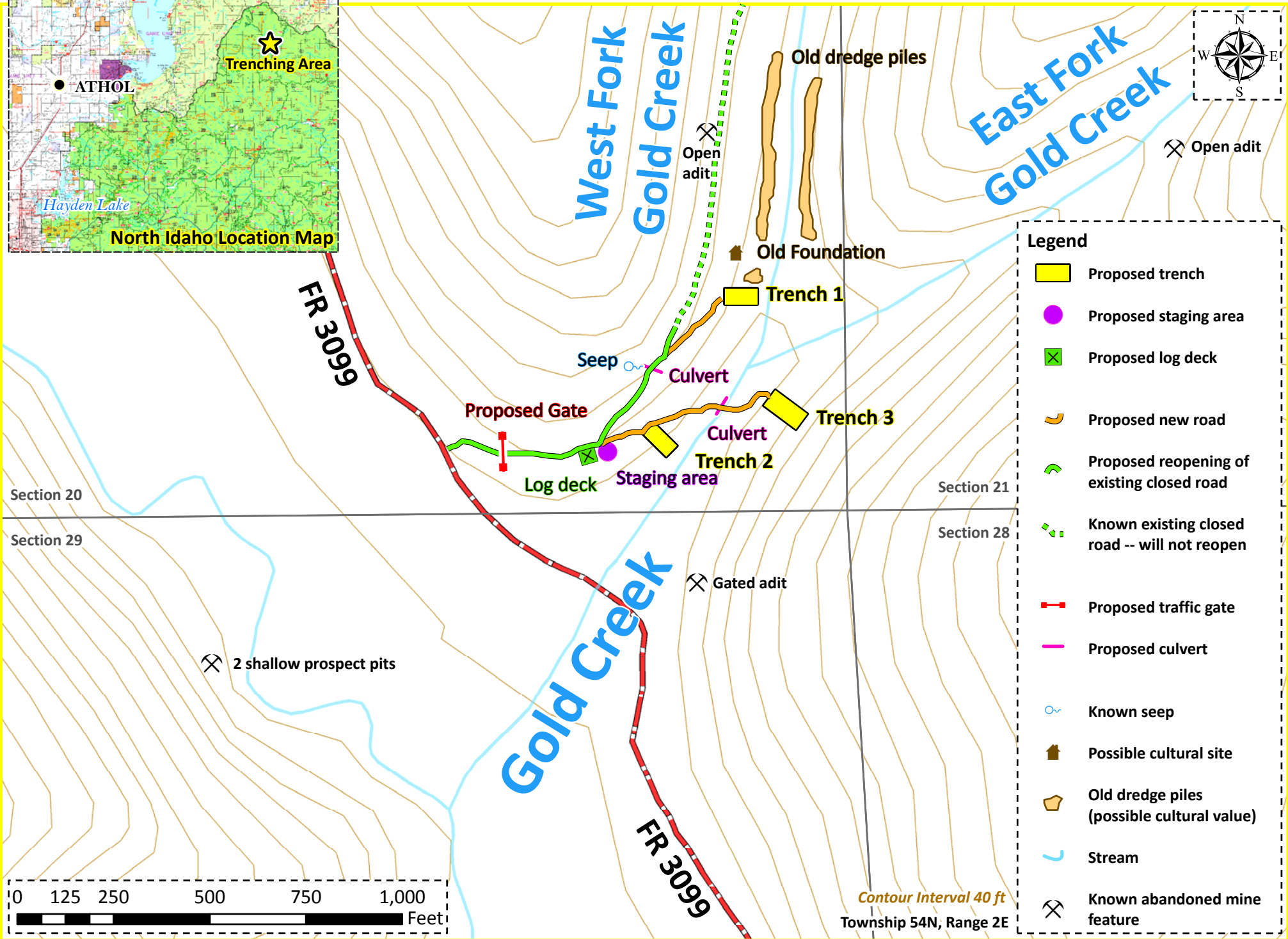
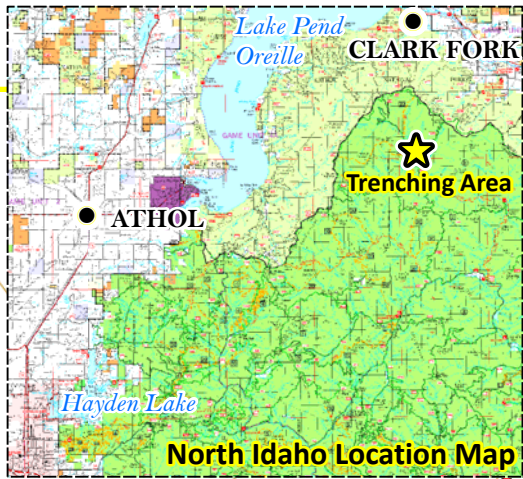
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“According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB number. The valid OMB number for this information collection 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)

Proposed Gold Creek Placer Trenching Exploration

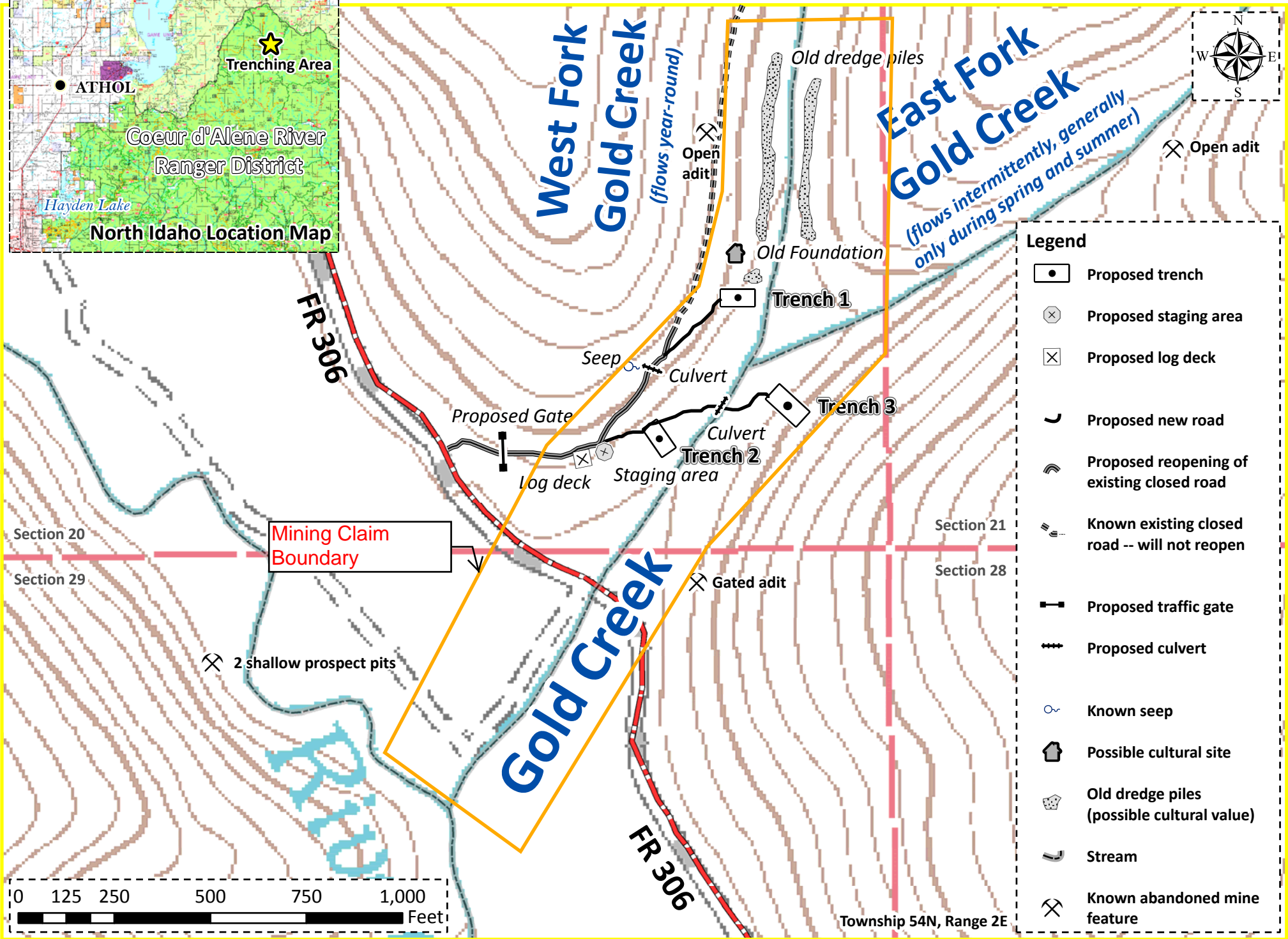
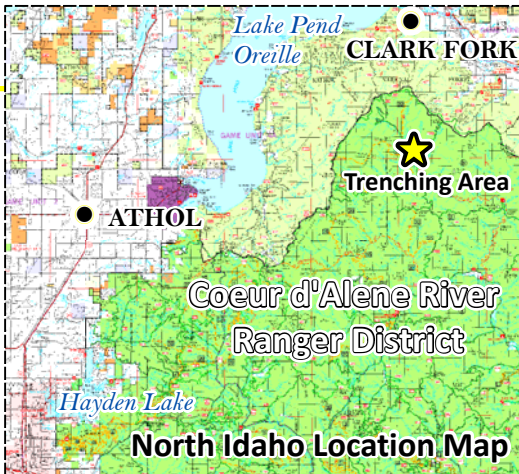


- Legend**
- Proposed trench
 - Proposed staging area
 - Proposed log deck
 - Proposed new road
 - Proposed reopening of existing closed road
 - Known existing closed road -- will not reopen
 - Proposed traffic gate
 - Proposed culvert
 - Known seep
 - Possible cultural site
 - Old dredge piles (possible cultural value)
 - Stream
 - Known abandoned mine feature



Contour Interval 40 ft
Township 54N, Range 2E

Proposed Gold Creek Placer Trenching Exploration

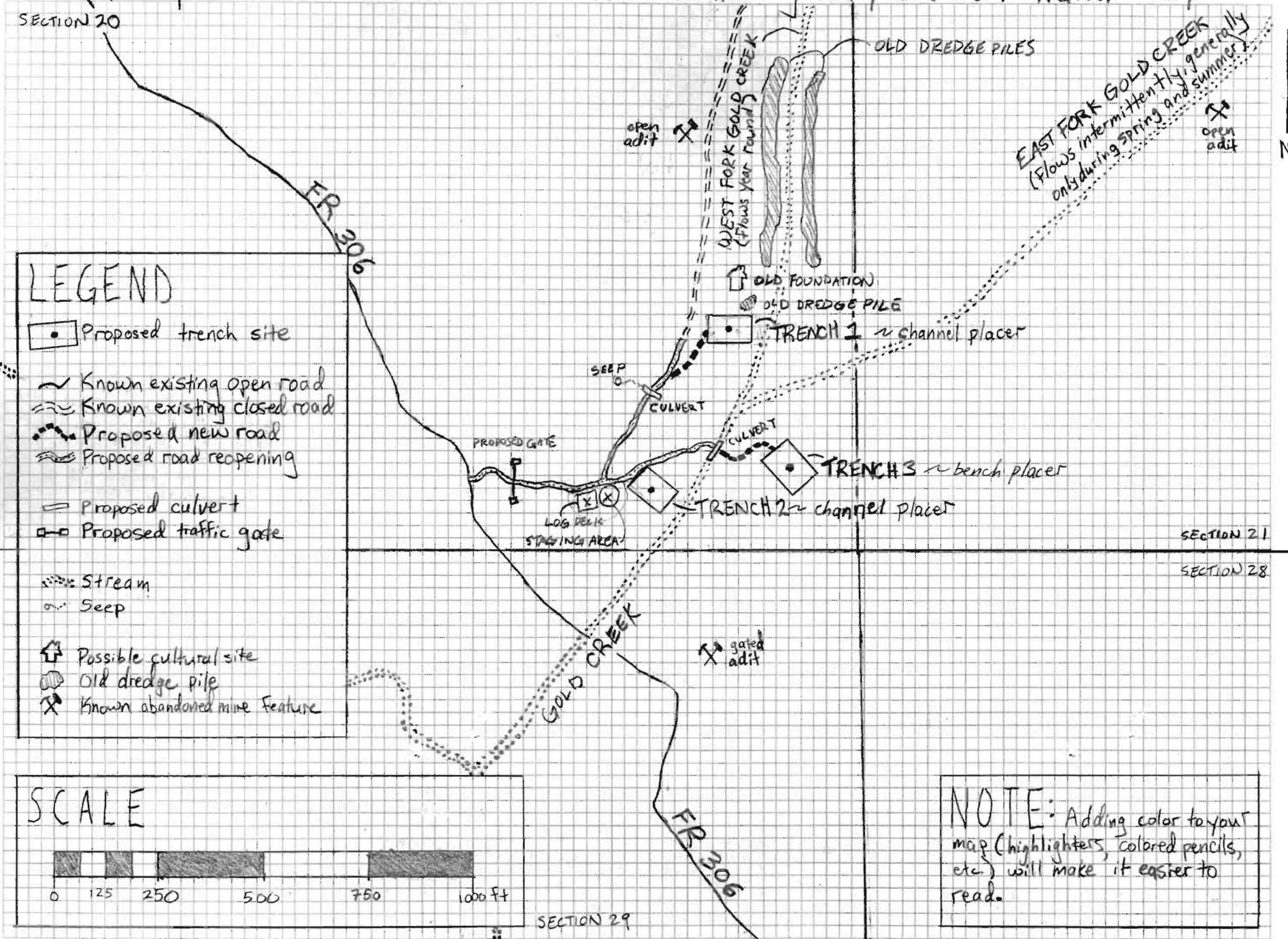


Legend	
	Proposed trench
	Proposed staging area
	Proposed log deck
	Proposed new road
	Proposed reopening of existing closed road
	Known existing closed road -- will not reopen
	Proposed traffic gate
	Proposed culvert
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	Old dredge piles (possible cultural value)
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Township 54N, Range 2E

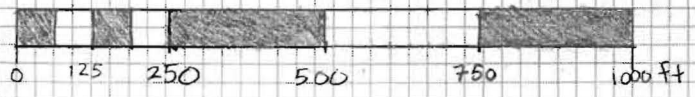
Proposed Gold Creek Placer Trenching Exploration Hand Map



LEGEND

- Proposed trench site
- Known existing open road
- Known existing closed road
- Proposed new road
- Proposed road reopening
- Proposed culvert
- Proposed traffic gate
- Stream
- Seep
- Possible cultural site
- Old dredge pile
- Known abandoned mine feature

SCALE

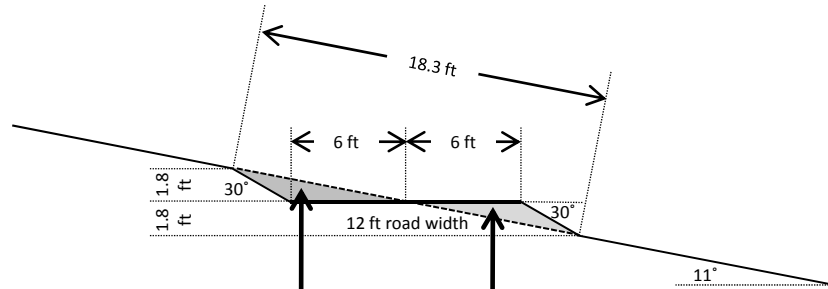


NOTE: Adding color to your map (highlighters, colored pencils, etc.) will make it easier to read.

TOWNSHIP 54 N, RANGE 2E

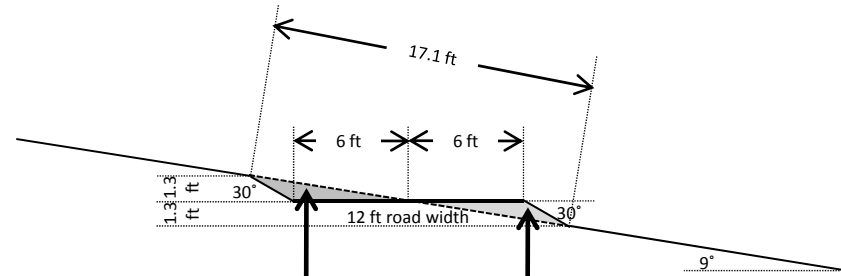
Schematic Cross Sections of Road Construction on Selected Slopes

12 FT WIDE ROAD ON 11° SLOPE (AVERAGE SLOPE FOR NEW TEMPORARY ACCESS ROAD TO TRENCH SITE 1)



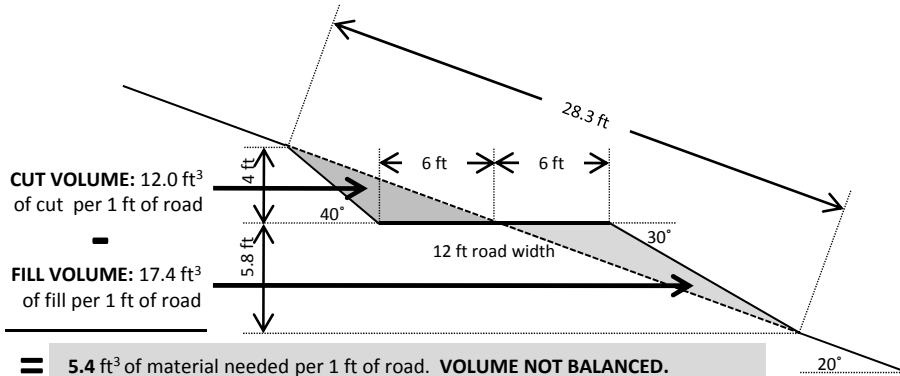
CUT VOLUME: 5.4 ft³ of cut per 1 ft of road
 FILL VOLUME: 5.4 ft³ of fill per 1 ft of road
 = 0 ft³ of excess material per 1 ft of road. **MATERIAL VOLUME IS BALANCED.**

12 FT WIDE ROAD ON 9° SLOPE (AVERAGE SLOPE FOR ANY NEW TEMPORARY ACCESS ROAD TO TRENCH SITES 2 & 3)



CUT VOLUME: 3.9 ft³ of cut per 1 ft of road
 FILL VOLUME: 3.9 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 FOR ANY ROAD CONSTRUCTION IN GOLD CREEK PLACER TRENCH EXPLORATION)



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.**

TOTAL AREA OF DISTURBANCE FOR GOLD CREEK PLACER TRENCH EXPLORATION PLAN OF OPERATIONS:

- NEW TEMPORARY ACCESS ROAD:
 - 202 ft segment accessing Trench Site 1: 3697 ft²
 - 519 ft segment accessing Trench Sites 2 & 3: 8875 ft²
- EXISTING ROAD (794 FT X 15 FT TOTAL WIDTH): 11,910 ft²
- EXISTING STAGING AND LOG DECK AREAS: 12,800 ft²
- TRENCH AREAS:
 - Trench Site 1: 80 ft X 100 ft = 8000 ft²
 - Trench Site 2: 80 ft X 100 ft = 8000 ft²
 - Trench Site 3: 90 ft X 130 ft = 11,700 ft²

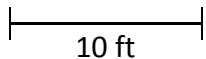
+

=

TOTAL AREA OF DISTURBANCE: 64,982 ft²
 / 43,560 = (1.492 acres)

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.

Scale: 1 in = 10 ft



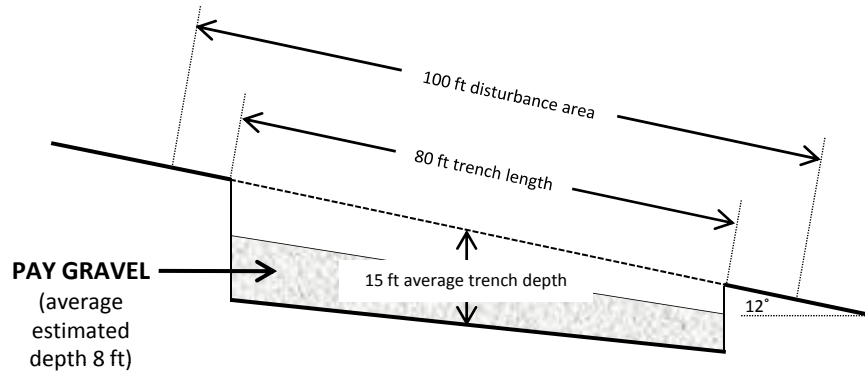
John Doe Gold

Gold Creek Placer Trench Exploration

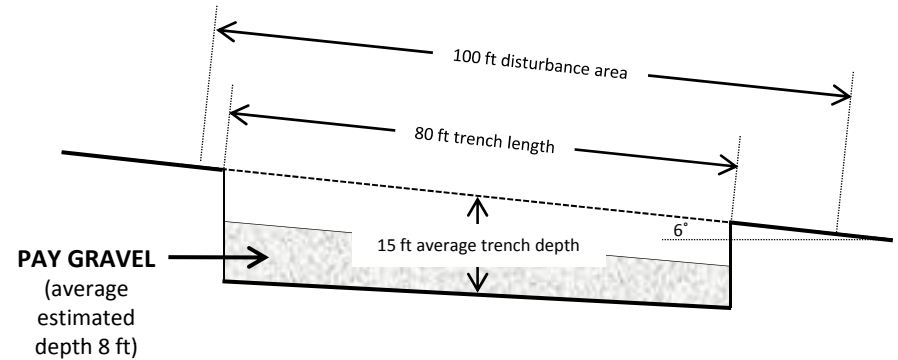
Submitted March 2010

Schematic Cross Sections of Trench Sites on Selected Slopes

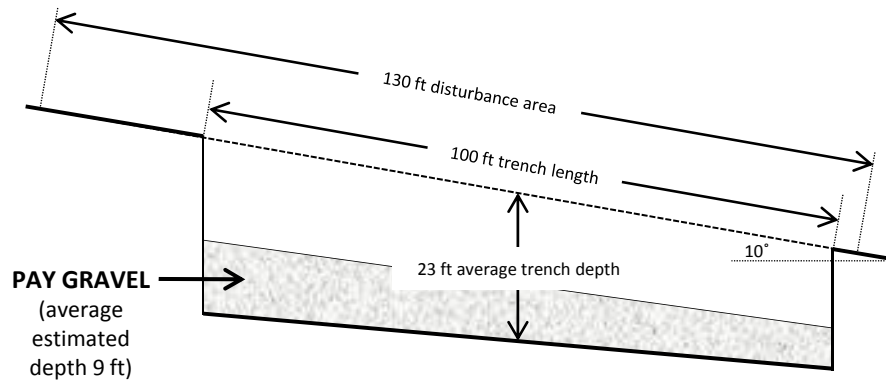
TRENCH SITE 1: 100 FT LONG DISTURBANCE AREA ON AVERAGE 12° SLOPE (TRENCH AREA WILL BE FULLY RECONTOURED TO ORIGINAL CONDITION AT END OF OPERATIONS)



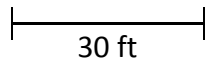
TRENCH SITE 2: 100 FT LONG DISTURBANCE AREA ON AVERAGE 6° SLOPE (TRENCH AREA WILL BE FULLY RECONTOURED TO ORIGINAL CONDITION AT END OF OPERATIONS)



TRENCH SITE 3: 130 FT LONG DISTURBANCE AREA ON AVERAGE 10° SLOPE (TRENCH AREA WILL BE FULLY RECONTOURED TO ORIGINAL CONDITION AT END OF OPERATIONS)



Scale: 1 in = 30 ft

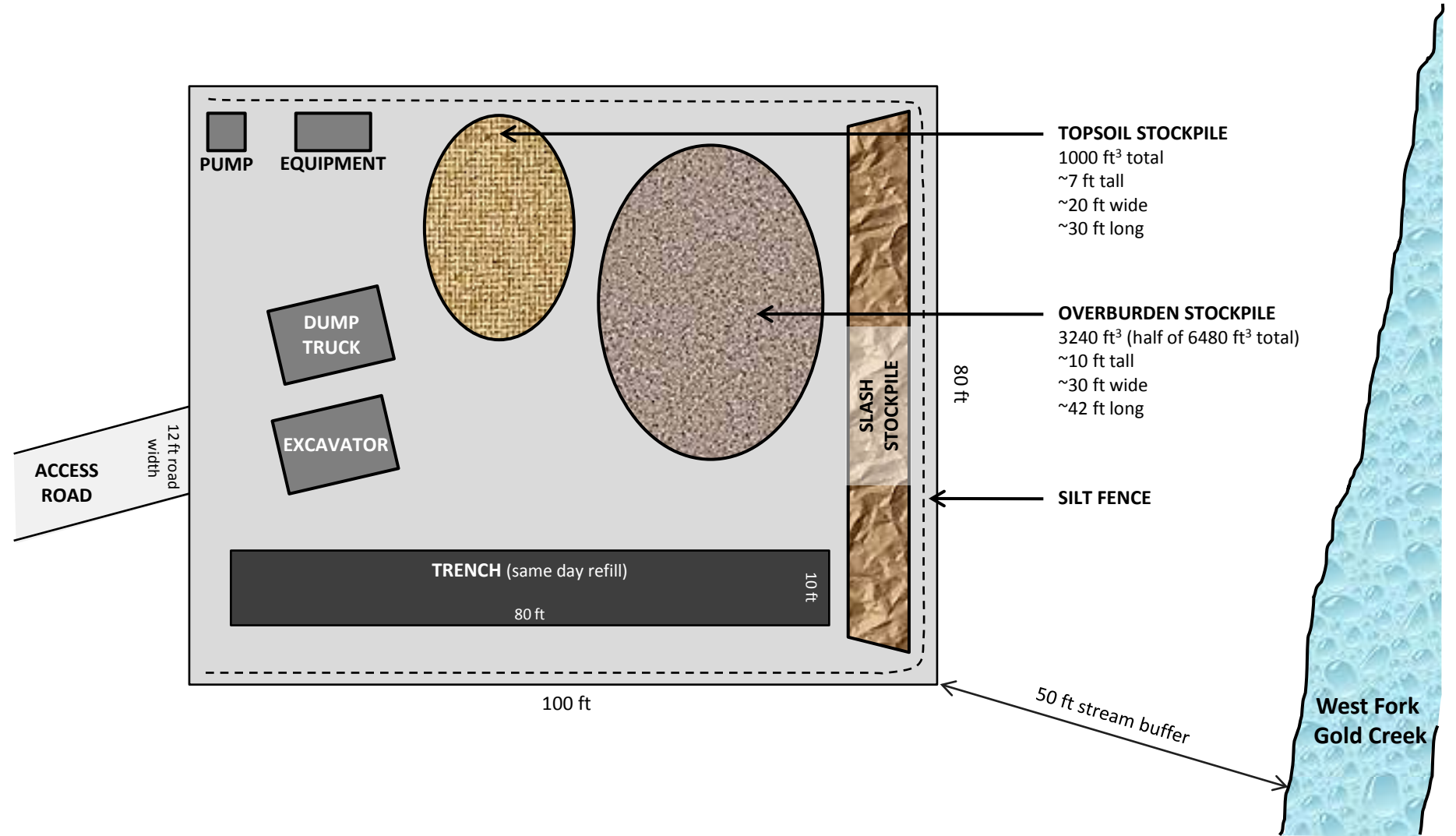


John Doe Gold

Gold Creek Placer Trench Exploration

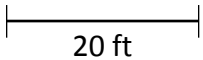
Submitted March 2010

Schematic Drawing of Trench Site 1



Plan view

Scale: 1 in = 20 ft



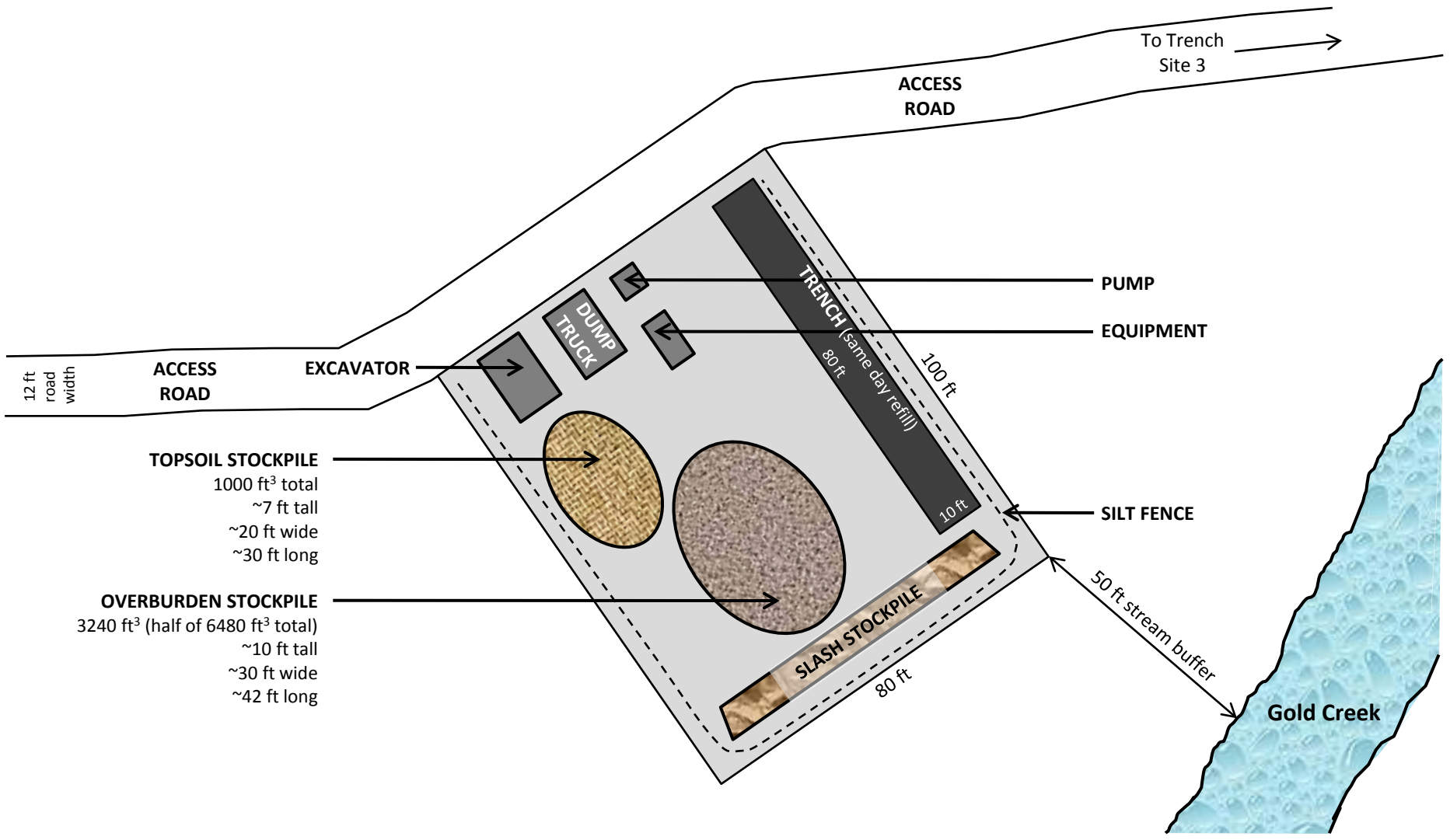
John Doe Gold

Gold Creek Placer Trench Exploration

Submitted March 2010

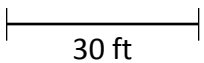


Schematic Drawing of Trench Site 2



Plan view

Scale: 1 in = 30 ft



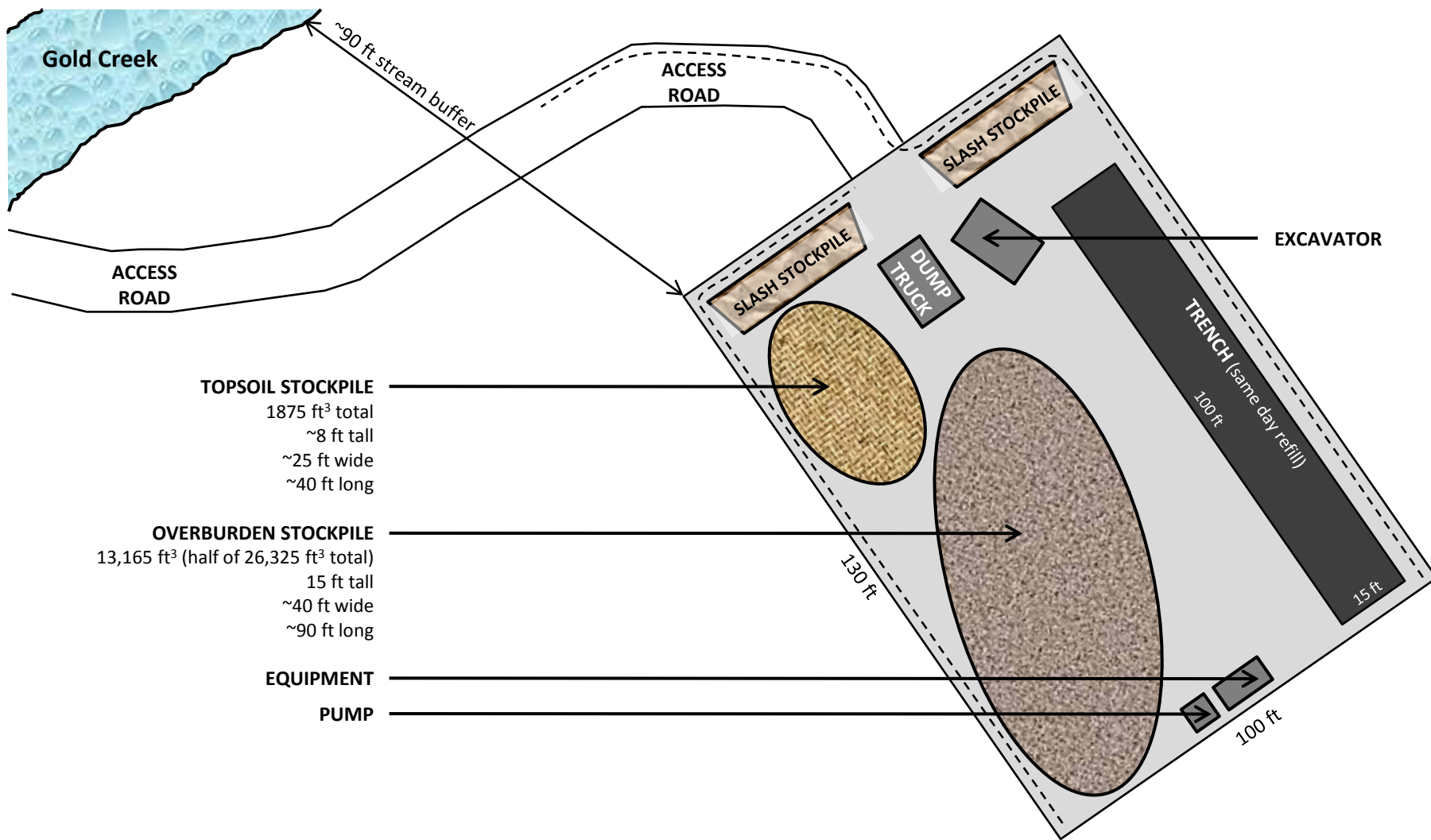
John Doe Gold

Gold Creek Placer Trench Exploration

Submitted March 2010



Schematic Drawing of Trench Site 3



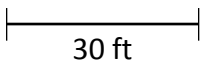
TOPSOIL STOCKPILE
 1875 ft³ total
 ~8 ft tall
 ~25 ft wide
 ~40 ft long

OVERBURDEN STOCKPILE
 13,165 ft³ (half of 26,325 ft³ total)
 15 ft tall
 ~40 ft wide
 ~90 ft long

EQUIPMENT
PUMP

Plan view

Scale: 1 in = 30 ft



John Doe Gold

Gold Creek Placer Trench Exploration

Submitted March 2010

