



**Pacific Skyline Council
Redwood District Presents:
12th Annual
Klondike Derby
January 28 & 29, 2012**

Location: Cisco Grove Campground & RV, 48415 Hampshire Rock Road, Soda Springs, CA 95728
Phone (530) 426-1600

Saturday Schedule: 10:00 am Arrive, set up tents, build snow shelters.

7:00 pm Astronomy

8:30 pm Cracker barrel

Sunday Schedule: 8:00 am Scouts Own

8:45 am Events

1:00 pm Awards Ceremony

Event Notes:

1. Format - Camping and competition. Think of it a “Camporee-on-Snow”
2. Sleds - Troops are encouraged to bring patrol sleds, built by scouts, for the sled race.
Sled example at: http://scoutdocs.ca/Klondike/Klondike_sled_plans.php
3. Please provide an accurate head count.
4. Need Troops to sponsor events!!!
5. Last minute weather related question even on the morning of the event? Call Michael Tillisch (below)
6. New events welcome! Previous Years events included:

**Sled Race - Jumbo Ski - Snowshoe Relay - Spear Throw - Fire Building - Snowball Toss
Tobacco Spit - Ice Rescue - Moon Ball - Hasty Shelter Building – Snow Snake**

Redwood District Presents: 2012 Klondike Derby January 29 and 30, 2012

Unit event coordinator: _____ Unit # _____ Email: _____
Phone #: _____ No. Attending: _____ No. of overnight vehicles _____ @ \$5.50/vehicle.
Amount Enclosed: _____

\$16.00 per person (Youth & Adult) cash or checks

\$5.50 per vehicle for overnight parking

Please make checks payable to: Boy Scouts of America

For credit card payments circle one: MasterCard - VISA - American Express

Card number: _____ Expiration Date: _____

For Additional information please contact:

Michael Tillisch cell: (530) 271-5885 e-mail: mktillisch@gmail.com

Chris Gardini cell: (415) 987-3132 e-mail: Gixchris@aol.com

Reminder: Local Tour Plan Required

Return with payment to: Pacific Skyline Council, 1150 Chess Dr., Foster City, CA 94044

Klondike Derby Sled Plans

A new design for a strong, light, and inexpensive Klondike sled

By Scouters Jay Treacy and Liam Morland, February 2002

Dissatisfied with previous designs for Klondike sleds, we set out to make a new design. We wanted a sled that was strong, light, inexpensive, and something that the Scouts could build themselves. The distinguishing feature of this design is that it is held together with rope lashings rather than with metal screws. In this way, the design is not really new. The Inuit have used flexible sleds for much longer than Scouts have been around.



This sled is:

- Collapsible, making storage and transport very easy.
- Very light weight, being made of relatively few thin boards.
- Strong. The flexibility of the lashings allows it to bend rather than break when it hits something or goes over an uneven part of the ground.
- Inexpensive: about \$25 (plus skis).
- Something the Scouts can build. The Scouts can lash the sled together on their own.

Before you read ahead, have a look at the [Sled Diagram \(PDF\)](#) and the detail pictures of the [front](#) and [rear bindings](#).

The various parts of the sled are attached together by lashing with rope. There are 7 mm ($\frac{1}{4}$ ") deep notches where the pieces cross. This make aligning the pieces easy and keep things from slipping even if a lashing is not as tight as it should be.

Skis (pair)

Used downhill skis are the best for a sled. These should be 185 cm (73") or longer. Second-hand sports shops often sell these cheap. Note that there is no advantage to having new skis, though a freshly waxed surface does help.

Bindings (×4)

These are 2×4 boards 20 cm (8") long with 10×4 cm (4×2") cut out of the bottom and 5 cm (2") by 7 mm (¼") cut out of the top. These are screwed to the front and rear of each ski with 6 cm (2½") or longer screws. The screws must have flat heads and be counter sunk. A P-TEX candle, available from ski shops, can be used to fill the hole, covering the screws completely. The front bindings have an angled, 2 cm (¾")-wide slot cut in the front to accommodate the diagonal (see side view diagram). Additional wood can be lashed or screwed onto the bindings to make them taller if the snow is too deep for the sled as is.

Cross bar (×3)

These are 2×2 boards, 60 cm (24") long, with 5 cm (2") wide notches 4 cm (2") from the each end of the board. Two of these are lashed to the bindings and support the floor. The other is the push bar and is lashed to the uprights.

Floor board (×10)

A floor board is a 1×2 board 120 cm (4') long. (1×2 boards are often sold in 8' lengths; cut these in half.) The floor is made from ten such boards held together by weaving nylon webbing back and forth between them. There should be three such lashings. Each lashing will require about 2 m (6') of webbing. Use a flat head screwdriver to help get these tight and even. Do this at home. The floor, which is flexible until lashed down to the cross bars, can be used to wrap the other pieces when packing the sled. The two outside floor boards should have eyes to hold the ropes for the sides. There should be eight eyes, 12 cm (5") apart, starting 8 cm (3") from the rear end of the board.

Upright (left & right)

The uprights are 2×2 boards, 1 m (40") long. They rest on the skis and are lashed to the back of the rear bindings. The height is chosen so that it is a comfortable height for a Scout to push. On the inside, there are two eyes for the rear triangular brace ropes. These are 45 cm (18") and 85 cm (33") from the bottom of the upright. On the front, there are six eyes, spaced 10 cm (4") apart, starting 20 cm (8") from the bottom of the upright. These eyes are for the side and back mesh. The uprights come in left and right versions. The only difference is the location of the inside eyes and the notches for the diagonals.

Diagonal (left & right)

These are 1×2 boards, 150 cm (60") in length. There is a 6 cm (2½") wide notch 7 cm (2½") from the bottom which fits into the slot on the front binding. It is lashed here with a shear lashing. There is a 5 cm (2") wide angled notch 4 cm (2") from the top on the side of the board. This fits the notch on the upright and is lashed with a square or diagonal lashing. Along the top edge, there are 5 mm (¼") deep nicks to accommodate the ropes for the sides. These are 8 cm (3") apart starting 20 cm (4") from the top end.

Once the sled is assembled, two ropes which connect eyes on opposite uprights provide triangular bracing. Tighten these one at a time using a trucker's hitch. To make the sides, rope is wrapped through eyes on the edge floor board and uprights, and in 5 mm (¼") deep nicks in the diagonal. The back is done using the same eyes on the uprights (not shown).

Harness Design

A comfortable harness can be easily made by making a loop from 2 m (6') of 2.5 cm (1") nylon webbing. To this is tied a rope which leads back to the bindings on one side or the other of the sled. Ensure that an equal number of Scouts are pulling on either side. If you like,

tie a short piece of bicycle inner tube from the webbing loop to partway down the rope. This allows some give in the harness which will keep the tension more constant. Ensure that if the harness is pulled hard, such as when climbing a sleep hill, the rope will become tight and do the pulling itself. Otherwise, something may give way unexpectedly and the sled may fly forward with all the energy stored in the over-stretched inner tube.

In addition to the pull harnesses, there must be a brake rope. This is a short rope tied between the two rear bindings. This is used by the musher to stop the sled. Note that the musher must not get into the rope as a sudden pull could pull the musher face-first into the push bar.

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Data\Microsoft\Templates\Normal.dot
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Author: Chris Gardini
Keywords:
Comments:
Creation Date: 10/3/2011 2:38:00 PM
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