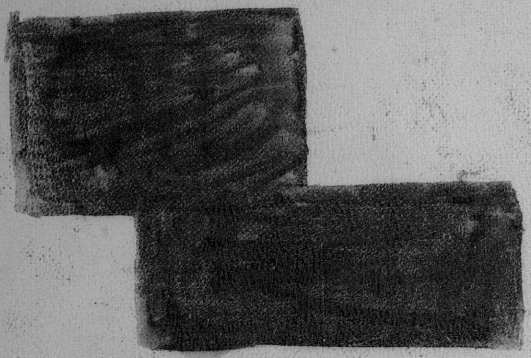


"Rite in the Rain"

WATERPROOF

FIELD BOOK

No. 30

018609

PAY CAMP

'68

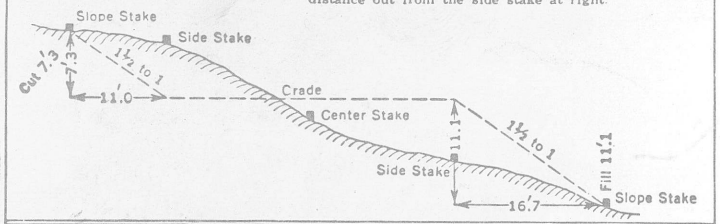
LOG BOOK.

(1)

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

Roadway of any Width. Side Slopes 1½ to 1.

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7. the distance out from the side stake at right.



Cut or Fill	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	Cut or Fill
	Distance out from Side or Shoulder Stake										
0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	0
1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	1
2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	2
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	3
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	4
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9	5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	6
7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9	7
8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	8
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9	9
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4	10
11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9	11
12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4	12
13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9	13
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4	14
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9	15
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4	16
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9	17
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4	18
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	19
20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4	20
21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9	21
22	33.0	33.2	33.3	33.5	33.6	38.8	33.9	34.1	34.2	34.4	22
23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9	23
24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4	24
25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9	25
26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4	26
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9	27
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4	28
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9	29
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4	30
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9	31
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4	32
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9	33
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4	34
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9	35
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4	36
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9	37
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4	38
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9	39
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4	40

Larry Summers - left Whitehorse
March 12th
- Pay Camp 20th March.

Maurice Brosseau - 20th March Pay.
Left Pay 23 March

Hartley Bedlock - 22 March Finlayson
23 March Pay.

George Guy - 12th March Whitehorse
23rd March Pay.

Hugo Brodell - 14th March Ross
23rd Pay

Ted Stenseng - 26th Pay

Bob Durney - 25th Whitehorse
26th Pay

John Brock - 20th Whitehorse
- 22nd. Ross
- 23rd Pay

F/B Ross River 23 & 24 - Ross Bar
25 & 26 - Pay Hartley.

March 26th Tuesday.

Final haul and camp construction.

Mackay - camp construction
Hugo - camp "
Larry - camp "

March 27th Wed.

Larry - trip on skidoo to grid
Mackay -
Ted - resting
Hugo - tent frames.
John - set up office
Bob - set up office

March 28th Thursday.

Larry - trip to Pay Lake.
Bob -

Mackay - storage tents
Hugo - tent frames.
John - office set up.
Ted - help around kitchen.

Last of drilling equipment from Finlayson.

March 29th

Mackay and Larry - Trip to Pay lake to haul engine to Bombardier. Had trouble. Truck went up at 4:00 PM with Larry. Got motor within ½ mi of Bombardier
Dorney - camp support
Hugo - tent frame
Ted - camp support.

March 30/68

Otter arrived 9:00 AM with grub. Made 2nd trip.

Had to leave 600 lbs of grub in Loss.
After made two trips to Finlayson for dull rod.
One after trip to Silly Lake from Foton and back to pick up last spare equipment.

Hugo - set up supply tent
Larry - moved engine to
Maclary - bombardier
John - moved grub off
Bob - Lake
Ted - camp support.

March 31/68

Larry - began to instal
Maclary - bombardier engine
Hugo - camp support
Ted - camp support
John & Bob - finished some of Silly Lake equipment from Lake - Office work.

Discovered that engine is wrong for bomb but will try to make it run.

Monday April 1/68

Hugo - camp support
Ted - shovelled snow for place to put tent poles.
Larry & Maclary - worked on bomb engine
John & Bob - plotting and office work.

Bomb. engine definitely wrong will try to get bomb down to Foton lake, but need more parts first. Ordered parts this evening.

Tuesday April 2/68

Everyone stayed in camp this morning waiting for arrival of Bombardier parts. Have ordered correct engine, but no word yet.

CNR Beaver arrived at 3:00 PM as split charter with Spotton Beaver took a load of last years supplies (Selby Lakes) back to Foss.

Larry & Mackay - hauled fuel off lake with Skidoo.

Hugo - cut poles for core shack.

Ted - camp support

John & Bob - office work and camp clean-up.

Wed. April 3/68

Bombardier running and moved to within ½ mile of Fortin Lake. Engine tuning.

John & Bob - trip to grid 1st attempt to find water for drill. Nearest water at L36 41+00 S.

Larry, Mackay - Bombardier

Hugo - poles for core shack

Ted - core shack.

Thursday April 4/68

Bombardier engine quit. Collapsed piston and bent push rods.

Lake mapped road from Fortin to trenches.

Beaver at 1:10, brought 600 lbs groceries, oxygen & acetylene, John sister and Bonnies, for

visit - Beaver at 6:00
from Whitehorse with
new Bombardier engine
minus camshaft.

Larry - Bombardier pulled
Mackay - out old engine.
Ted - camp support
Hugo - camp support
John - office

Friday April 5/68

New Bombardier engine
ready to be installed.

Larry - Bombardier
Mackay - "
Ted - camp support
Hugo - camp support
John - office. Trip
Bob - to Lisky to
locate trailer.

Saturday April 6/68

Radio signals poor.
Expected plane to bring
in skidder from Loss, but
no plane available.
Bombardier engine installed
and almost ready to run.

Larry - bomb.
Mackay - poles for core rack
Ted - core rack
Hugo - core rack.
Felix, Bob - office. Started
first hole at L56 49+50S

Sunday April 7/68

Spartan aircraft in at
7:45 to take John to Loss
Brought personal orders and
2 gal antifreeze.
Beaver with 4 drillers at
11:45. Drillers prepared.

equipment for chopper loads. Jim and I went to the grid to see drill site and water. Bombardier starter no good.

Larry ~~+ H~~ - bombardier
Maclary - firewood
Hugo - camp support
Ted - core rack.

Monday April 8/68

Tet Langer arrived 7:45 to begin drill equipment haul.

Kolb arrived 9:00 (approx) with Skidoo from Ross Brought personal orders. Chopper finished at noon. Kolb arrived 3:30 with lumber for boat. Lumber from McPherson Lake.

Sent out Starter, heater and battery charger with him.

Larry - fix kitchen stove and got skidoo running, fixed chain saw!
Maclary - wood, grub to kitchen, drill equipment
Hugo - drill equipment, got fridge hooked up, some fuel from lake
Ted - core rack
Bob - office, trip to grid.

Tuesday April 9/68

Made road from drill site to water on L 36 and also cut trail to main road at L 64 from drill site

Larry - odd mechanical work around camp

Macleay - roads.
Hugo - boat
Ted - camp support and core rack.
Bob - spotted drill hole and office.

Wednesday April 10/68

Drills almost in & set up and will be running tomorrow.

Larry - fixed lamps & stoves. Levered fly wheel on bomb.
Macleay - meat house, wood poles for Ted.
Hugo - boat
Ted - core rack
Bob - office.

Thursday April 11/68

Drilling running by about 9:00 PM. Crew arrived 5:00 PM with Sportsmen. Both used 1 drum 100/150.
Boiler at 2:30 with John and 2 pump men plus cooks.

Larry - odd jobs and installed starter in bomb.
Macleay - firewood, logs for Ted.
Hugo - boat
Ted - core rack
Bob - drill holes and office work.

Friday April 12/68

Installed starter and made attempt to start Bombardier Drill running camp.

Larry - bomb.
Mackay - bomb.
Ted - core rack
Hugo - boat
Bob - office
John - office.

Saturday April 13/68.

Bombardier in camp now.
Drill still running
casing in PDD 68-1

Larry - Bomb.
Mackay - "
Ted - core rack
Hugo - boat
Bob - office and
drill.
John - office - walked
to L96 to see
location of geochem.

Sunday April 14/68

Larry - worked on bomb.
Mackay - firewood in
helped with survey.
Ted - core rack.
Hugo - camp support
Bob - office - hunting
John - survey of
L 52 + L 58.

Monday April 15/68

Larry - bomb.
Mackay - shelter for bomb
Hugo - shop.
Ted - core rack.
Bob - office and 2 trips
to drill.
John - office.

Drill now at 100' and
having trouble as water
in flowing up rods. Can't
get overshot down.

Tuesday April 16/68.

Drill repairing, or more 550' down hole bearing 208° SW from L56 49+00S Gordon Davis arrived by 180 from Whitehorse. Bombardier having combustion problems. Hugo & Marlow to Loss Lorry - home. Ted - boat.

Wednesday April 17/68

Drill moving Bombardier not running properly yet. Skidoo broken down, need new spark plugs.

Lorry - home.
Ted - fire wood + boat.

Thursday April 18/68

Drill running by noon. Bombardier running (not properly) helped finish move and hauled up some fuel.

Weather fairly bad (snow) John & Gordon left at 5:00 PM with Rolls for Loss Lines.

Lorry - home.
Ted - boat.
Bob - work on skidoo + office.

Friday April 19/68

Bomb. having combustion problems. Made one trip to drill with some fuel.

Lorry - home.
Ted - boat.

Sat. April 20/68

Larry working on Bomb carburator. Have ordered overhaul kit for it. Needs new fuel pump which is already ordered. New skidoo has broken sprocket wheel on rear axle.

Larry - Bomb., firewood, ice
Ted - boat firewood
Bob - drill.

Sunday April 21/68

Bombardier running well, made two trips to grid with fuel. Only 1 skidoo operating.

Larry - bomb
Ted - boat.
Bob - office, drill.

Monday April 22/68

Bombardier made fuel haul to drill.

Larry - bomb - firewood
Ted - cleared creek with Larry for breakup
Bob - drill and location of new hole. Road for water hose.

Tuesday April 23/68

Beaver at 12:15 with 500 lbs freight. Shipped out 7 empty 45's & 1 propane tank. Bombardier took fuel to pump.

Larry - bomb. haul fuel off lake
Ted - Ted finished Bomb skids for drums.
Bob - office - trip to drill

Wednesday 24/68

Bombardier 2 drums fuel to new drill site and moved drill equipment. New set up 1100 SW bearing 208° from DDH 681 - hole is DDH 6822. Dip -60° NE on bearing 208°

Larry - bomb - drill move
Ted - camp support.
Bob - trip to drill and helped on location of hole - office work Core logging.

Thursday April 25/68.

Drill hit mineralization in early stages of hole however still having caving problems.

Larry - Bomb.

Friday April 26/68

Kanji Shibata arrived on Beaver today. Made trip to drill site and looked at core.

Larry - Bomb.

Saturday April 27/68

Made trip to Stewart with Shibata to check on dip. Definitely NE.

Larry - Bomb.

Sunday April 28/68

Pulled in BQ drill rod when Lolla Lagoe was required Stewart to Whitehorse. Shibata to Ross. Sent out EM 16 data with him. Moved drill

Lowy - Bomb.

Monday 29/68

Drill at PDDH 68 2B.
dip -60° SW. Location
1100 feet from PDDH 68-1.
Surveyors arrived.
Lowy - Bomb.

Tuesday April 30/68.

Murray Smith arrived from
Whitehorse with some
drill equipment.
Lowy - Bomb.

Wednesday May 1/68.

Surveyors - recon.
Murray Smith went to
drill to help with caving
problems. Using mud.
Lowy - Bomb.

Thursday May 2/68.

Murray has put mud order
for more mud. Using
approx 3 50# bags/shift.
Surveyors finished today.
Lowy - Bomb

Friday May 3/68

Murray Smith & surveyors
left for Whitehorse about noon.
Fleming on Rose coming out
soon. 1200# mud arrived.
Lowy - Bomb.

Saturday May 4/68

Moved drill to PDDH 68-3
Fleming arrived by Beaver.
Lowy - Bomb.

Sunday May 5/68.

Visited drill. Some visible sphalerite in scalp parts of hole.

Larry - Bombardier

Fleming - logged 1-57 & DDDH 68-2a for assay.

Bob - logged core, office.

Monday May 6/68

George Gray leaving for Ross tomorrow.

Fleming - read reports

Larry - bomb.

Bob - logged core.

Tuesday May 7/68.

Leave from Ross with new cook Claude Marcoux. George Gray out. Tyn. Coates, Pete Dan, Claude

Came for visit. Flew to Pally, but could not find bomb. Trader.

Larry - Bomb.

Fleming - Trip to drill read reports.

Bob - logged core office, camp work.

Wednesday May 8/68.

Drill still getting minor sphalerite in hole. New cook should work out.

Larry - Bomb

Fleming - Camp work.

Bob - drill, core, office.

Thursday May 9/68

Bombed west of lake.

Larry - Bomb.

Fleming - Camp work.

Bob - office logged core.

Friday May 10/68.

Leave from Ross with supplies and Franklin Charlie.

Larry - Bomb.
Fleming - camp work, core
Bob - logged core

Saturday May 11/68

Bomb trip to Bill Camp to find tracks. Located it but to high on mtn and too much snow to reach it. Will have to leave it till after breakup. Brought back 1/2 of a tent frame.

Larry - Trip to Bill
Frank - Trip to Bill.
Fleming - camp work, core
Bob - office, logged core

Sunday May 12/68

Began to break down drill
Stopped 68-3 at 416.
Larry - Bomb.
Frank - started on new tent frame.
Fleming - camp work.
Bob - core.

Monday May 13/68

Trip to Selby to get plywood.
Moved drill.
Larry - Bomb.
Frank - firewood trip to Selby
Fleming - camp work, helper log core
Bob - logged core.

Tuesday May 14/68

Built new 14x16 tent frame for crew arriving Thursday.
Larry - Bomb - started to repair winch.

Frank - tent frame, shelves in kitchen.
Fleming - office, coloring of geologic map.
Bob - office, tire, helped on tent frame.

Wednesday May 15/68

Lamb. made trip to Pay Lake an brought back 11 empty drums. 11 more empties from drill site. Spent afternoon clearing road.

Larry - Lamb - drums & road clearing.
Frank - drums & road clearing
Fleming - drill
Bob - office, drill.

Thursday May 16/68.

Drove in afternoon with John and some supplies.
2 Beavers in the evening with Kirkland, Williston, Claudge and Simpson. Coates Frank Charlie returned to Ross River.
Larry - Lamb. - fuel.
Fleming - camp supplies for Phil.
Bob - office
John - office.

Friday May 17/68

Moved camp out to the Phil Group. Simpson, Claudge Williston to set up camp above Cat trench. Kirkland to stay in camp to review maps etc.
Gordon Hall the cook arrived in the evening. Casing and core boxes arrived also.

Ice extremely soft and
this is last flight.
Larry - Bomb. trip to Phil.
Fleming - Supplies for Phil
and core splitting
Bob - core logging.
John - office.

Saturday May 18/68

Moved Kirkland and
Call out to Phil Group
in the afternoon
Larry - Trip to Phil
Fleming - core splitting
Bob - core logging

Sunday May 19/68

Monday May 20/68

Trip to Phil to see how
progress was going and to
take out some supplies
Bob - log core
Fleming - split core
Larry - Bomb.

Tuesday May 21/68

Changed meat to creek.
Creek dropping and lake
rising. Ice beginning to
breakup faster now.
Larry - Bomb.
Fleming - Meat house
Bob - office

Wednesday May 22/68

Lake too high to cross so
we had to built a bridge
over the creek. Almost finished
but will take a few more

hours apt.
Larry - bridge
Flem - "
Bob "
Coates "
John "

Thursday May 23/68

Finished bridge and built shower. Needs improvement.
Coates - bridge
Flem - bridge
Bob - shower
John - shower
Larry - Bomb.

Friday May 24/68

Fleming to Phil in afternoon. We built smoke house in the morning. Chopper brought Jed in and Coates out. Pump men out B. Chopper made 2 trips.
Bob - smoke house after
John - " "
Flem - " " Phil.

Saturday May 25/68

Chopper in ~~noon~~ evening with John O'Neil.
Fleming - Camp support
John - office. walked to Phil
Bob - office, walked to Phil
Larry - Bomb. fused cab.

Sunday May 26/68.

Spent the day prepping maps for Ako & Shobara to see.
Larry - Bomb.
Flem - Camp work.

Monday May 27/68

Aho & Shiobara arrived by chopper. Chaidez & Middleton to Finlayson. Harper Newson Fipkie, Hodgman, Findlay arrived on Phil.

Lary - Bomb.
Flem - Camp.
Bob - office.

Tuesday May 28/68

Spent day on the grid and a Phil group with Aho & Shiobara.

Lary - Bomb.
Flem - cook splitting
Bob - grid
Ted - camp.

Aho left for Kess

Wednesday 29/68

Spent day in office going over core with Shiobara.

Lary - Bomb.
Flem - core splitting
Ted - camp.

Thursday May 30/68

Visited Pike with Joh Ted & Shiobara.

John & Shiobara to Ross.

Flem - core split
Ted - Boat.

Friday May 31/68

Bit 9 reaming shell lost in hole. Having trouble getting it back.

Lary - Moved Arsenault equipment to store tent.

Flem - ✓ ✓ ✓ ✓
Bob - office
Ted - Camp.

Saturday June 1/68.

Larry - Bomb.
Flem. - camp work.
Bob - office
Ted - bridge.

Sunday June 2/68

Larry - Bomb.
Fleming - supplies moved from old tent to tent frame.
Bob - office.
Ted - camp clean up.

June 3/68

Larry - Bomb.
Flem - supplies for PEX crew.
Bob - progress report
Ted - chopper pad.

Tuesday June 4/68

Plane late in evening with large grub order and some Ossenault supplies 2 windows for cabin.
Larry - Bomb.
Fleming - split core
Bob - log core office
Ted - Cleared chopper pad.

June 5/68.

Spot bomb and moved Findlay crew down to Foster Creek crossing. Visited Kirkland and brought down EM unit for repair. Left Joke on Phil gang.

Larry - Bomb
Flem. - camp move
Bob - camp move.
Ted - traverse from Wicky to Foster.

June 6/68.

Drove to drill and shut down 68-7. Cannot pull casing, waiting for cutting tool.

Larry - Bomb.
Ted - new road.
Bob - drill, office
Flem - silt sample traverse.

June 7/68.

Casing stuck and drill shut down. Waiting for parts.

Larry - Bomb.
Fleming - camp work
Bob - office
Ted - camp work.

June 8, 1968

Waited for aircraft to bring electric caps - were for drillers. Also unloaded for Bombardeers. Clyde Smith visited in the afternoon with Wayne Roberts.

Larry - repaired chain saw, worked on Bomb.
Flem - split core
Bob - core logging
Ted - camp work.

Ted left for Ross.

Sunday June 9/68.

Bomb spent morning moving drill Then trip to Phil to return EW unit. Kirkland came in to do some drawings.

Fleming - sewage core boxes.
camp work.

Bob - office
Larry - Bomb.

Monday June 10/68.

Took trip to OEX camp and moves ½ way back to Tichy. Jake & Ken K. moved out to Findlay Camp. N. Gladman would like to quit.

Larry - Bomb.
Fleming - camp move
Danny - camp move.

Tuesday June 11/68

Larry - Bomb.
Fleming - assay OEX soils. Dug garbage pit. Burn bag bags.
Bob - office log core. study OEX progam.

Wednesday June 12/68.

Larry - Bomb.
Flem - split core
Bob - log core
office work.

Thursday. June 13/68.

Beaver from Lac La Ronge Lon Williams

Larry - Bomb.
Fleming - light core
Bob - logged core.

Friday
~~Thursday~~ June 14/68.

Drill move to Linn
56 area Hole 68-9
Larry - drill move
Fleming - dug garbage
pit, drafting
Bob - office work.
log core
Lon - arrived on
beaver Thursday.
helped on drill move

~~Sat~~ Sat/~~Sun~~ Sunday June 15/68

Bomb trip to Fundamp
camp to pick up Ken
and Jake. Brought
them in to Portin.
Larry - Bomb.
Fleming - trip to fly
camp.
Bob - office work.
log core
Lon - dug out house
moved garbage.

sent off: C.F soil samples #1 - 85
R.B. F soil samples #1 - 82
R.B. F silt samples #1 - 3

Sunday June 16/68

OEX Studio
Larry - Bomb charged
spring.
Flem - split core
Lon - helped on Bomb.

Monday June 17/68

Bomb trip to bring in all.
fly camp boys in. Spent
day going over results and
planning next trip.
Larry - Bomb
Flem - fly camp
Bob - office
Lon - Camp work.

Tuesday June 18/68.

General Camp clean up
by OEP crew. Odd jobs.
Hang skidoos
hauled empties
moved outhouse
. Move to SW. Foster
area in the evening.

Larry - Bomb.
Flem - helped with fly
camp supplies
& split core.
Bob - office.

Drill shut down at
approx 10:00 AM. as
casing plug broke.

Chopper Times for camp
move 4.2 hours total
3 Trips - 4 men Kirkland
2 Trips - 3 men Kindley.

We owe Terminex 20 gal fuel.

June 19/68

Drill running fast
coupling & plug problems.

Larry - Bomb
Flem - core splitting
Bob - office.

June 20/68

Visit to property by John
Walker. Leave in with
supplies and drilling
equipment.

Larry - Bomb.
Flem - on grid with
Walker
Bob - on grid with
Walker.

June 21/68.

Drill move to 63-10
to left from 63-9 Sw.

Larry - drill move
Flem - drill move and survey
Bob - " " "

Sat. June 22/68

Mobile I camp burned down. Extremely hot fire and everything lost.
Newson in camp at time and reported that fire started in air tite heater. Attempted to save equipment but 303 shell started going off so he cleared out. Personal claims will probably be in the order of $200.00
Van from Ross to move Kirkland Hayes Newson and Hendrie to Foster. Newson on the Ross to have burnt hands looked at. Fingers blistered but seems not very serious.

Larry - Bomb
Flem - fly camp sails core split, general camp work.
Bob - fly camps and office.

Sunday June 23/68

Moved fly camp Mobile II in the evening to location close to Foster Lake.
Jake Kumlien went out to Mobile II. Chopper forgot travel sling so could

not to move them at
Pike Lake. Well coincide
them move with pilot
camp move. Total Time 2.2 hrs.
General cook house
clean-up. New tents
and plastic flys put on.
Groceries rearranged.
Larry - Bomb.
Flem - cook house.
Bob - drafting
Kirk - drafting
Jon - cook house
Jake - cook house.

Monday June 24/68

Larry - Bomb.
Flemming - Core split.
Bob - office; progress
report.
Ken - } OEX plotting.
Jon - }

Tuesday June 25/68

Camp clean up.

Larry - Bomb
Flem - camp work.
Bob - logged core, office
Ken } OEX plotting
Jon }

Wednesday June 26/68

John Brock to camp with
Nuvsum from Ross River with
Beaver (Rolls) Supplies for
Pay and VIP group plus items
lost in fire for Kirkland crew.
Bob Danny out to Ross river
drove to Whitehorse in Summus
station wagon.

Kirkland - Harpa - Nuvsum to
VIP group. C Gordon Lake by
Beaver (Rolls) then into property

with Spartan helicopter, to be picked up July 10th.

PDDH 68-10 shut down at 309 feet.

Thursday June 27th.

Fleming and Brock located 68-11 125 feet NE of 68-10, drilled 208° at -60° NE (towards 68-1)
Crew set up rig. Drilled in 7 feet casing by shift change. Night shift drilled casing to 13 feet. Broke coupling, crew walked back to camp.
Brock visited Findlay No 2 camp, decided to move down June 29th. Used Spartan helicopter.

Pole-Pay fuel move started Spartan chopper lifted 61 BBLS to Pole stove. 3 stove oil, 1 AVGAS 57 REGAS.

Brown came in with Blake and 6 propane for Pay camp. Moved 14 drums REGAS from Pole to Pay.
Rained all day - no work on Bob's cabin.

Friday June 28th.

Left hand thread AX casing TAP ordered for drillers to retrieve casing.
Casing on hole 68-11 to 13 feet.
Spartan Super-Cub in with mail & discounts AX casing taps

Saturday - June 29th.
- drilled to 113 feet - dolomite
- Brock worked to Findlay No 2 camp in afternoon
- Findlay No 2 camps moved by Spartan chopper in evening to high question area near Petty River.
- Tony caught big trout 30 inches

Sunday June 30

Day in camp - logged axe, admin, etc

Monday July 1

JSB + Tom expect time on grid locating survey target sites and TDDH 68-12. Jimmy worked on road.

Tuesday July 2

TDDH 68-11 - shut down, night shift tore down. Paul White & Rick came out with Rolls in Beaver. No change.

Wed July 3

Moved to hole 68-12 near cat trench No 1, started ditching by 2:00 PM. Claude camped 34½ inch core (20 pounds)

July 4th.

Pete Paul Loud - 17 drums. Paul Fox and Andy ____? in from Ross as swampers. Rolls returned to Ross River to pick up Kanji Shiobara and Hiromu Kito? (Mitsui) returned at 5:45, split charter with Spartan. Paul Fox and Andy worked on tent frame after fuel haul. Bombardier - heavy fixed differential then tried to drive around with cab off - result - radiator not supported, shifted forward into fan, ruined radiator - extremely careless action. Bomb out of commission until new rad comes. Drill broken down night shift & day shift in camp until new BQ-NX couplings come in from Whitehorse. ~~Friday fly camp in to Pay - Spartan Chopper - 1.2 hrs.~~

July 5th.

Rained all day - no aircraft and parties for bombing drill, everybody in camps. No aircraft to move Findlay Hy camps which were brought into Pay with Spartan choppers.
Fishy in by Yukon Airways from Ross.

July 6th.

Yukon Airways in with Bombing Drill parties, could not move Hy camps to McElroy Lake - bad weather. Day shift worked ½ shift. Bombing crews with replacement rations. S Lisbourg and Kido to Spartan in DH with Spartan supervisor.

4 ~~3~~ 2 cans beef stew	✓	5 cans Kellogs	✓
2 cans meat ball stew	✓	1 can chow Sobo	✓
4 ~~3~~ 2 cans milk	✓	100# flour	✓
1 can prune	✓	1 can tomato paste	✓
2 cans butter	✓	1 can mixed pickles	✓
1 can mixed fruit	✓	1 can beets	✓
1 can apple sauce	✓	1 can corn	✓
1½ cans sausages	✓	1 can soya tomato	✓
1 can corned beef	✓	1 can asparagus	✓
2 cans baked beans	✓	1 can corned tomato	✓
3 cans eggs	✓	½ can peas	✓
1 can carrots	✓	½ can pork	✓
1 can peas	✓	1 can baking powder	✓
1 can ham	✓	1 can dried onions	✓
2 cans peas	✓	1 can vinegar	✓
4 ~~3~~ cans peaches	✓	1 can yeast	✓
1 can pineapple	✓	1 can macaroni	✓
1 can meatballs	✓	1 can spaghetti	✓
1 can soda crackers	✓	½ can spinach	✓
1 can tang	✓	½ can mixed spice	✓
1 can pancake mix	✓	1 can mushroom	✓
1 can tea bags	✓	3 cans coke mix	✓
1½ cans toilet paper	✓	1 can lard	✓
1 can potatoes mix	✓	½ can mayo	✓

1 can dutch cleanser. ✓
1 can lux bars. ✓
1 can lux ✓
1 case lux liquid. ✓
1 can bicarb of soda ✓
1/2 case pic.
~~1/2 can table syrup.~~
1/2 can plastic cups. ✓
1/2 can pickles ✓
1 can soap. ✓
1/2 can peanut butter ✓
4 bottle cheese whiz ✓
1 1/2 lbs coffee. ✓
3 1/2 cn apple jam ✓
2 tang ✓
250 # flour — Kitchen time.
1 cn mushrooms. 1 case cloves
2 case mixed veg. 1/2 case syrup.
3 cn shred carrots 2 cn orange-grapefruit juice
1 cn peas. 1 cn butter
1 cn tomatoes 2 cn beef stew
1/2 case salmon 1 cn sausages.
1/2 case sardines.
1/2 case vinegar.

Sunday July 7th.

Findlay fly camp moved to south Melvor Lake area, Beaver from Forbes to McEvoy then Spaulton choppers from McEvoy to prospecting area. Choppers time 2-2 hrs
Beaver picked fuel and bunkhouse from Pike Lake. Fox & Cote back to Rose River.
Bombardier radiator in, wrong one. Re-ordered by Blade through Dow at night.
YDDH 6-12 Cored to 89 feet.

Monday July 8th.

From brought maps up to date.
New drill crew arrived, Wuntah & Cote out to Athabasca in Cessna 180. Dumbbell to 127.

Tuesday July 9th.

Sherborne back to Pay in Spaulton Sniper - cat. Spent most of day on green dirt locating new drill holes. Danny & Co down to Rose

From Whitehorse

July 10/68.

Danny & Co. to Bay camp with some fuel and to ft. Bx Capping. Split chain with Spartan. Beaver could not get of Nip (weather) returned to Koss with Shoboldt.

July 11/68

Beaver in late afternoon moved Kirkland and crew back to Bay from Nip group. Block and Kirkland on to Koss. John Allie from Koss.

July 12/68

Super cub in morning with new radiator and personnel orders. Drill shut down, hole 12 at 360 feet feet at 3:00 PM.

July 13/68.

Long drill move to the green hill almost completed, only a few things left. Should be running by tomorrow. Fleming and myself did some prospecting on the green hill. Very little outcrop. John Allie cut drill profile line.

Two cable logs on the cabin.

July 14/68.

Drill move completed and running by 2:00 PM. Having hose problems due to pressure pumping up hill. Gordon McLeod quits as he could not get along with Leon. Beaver in early evening with some grub and personal orders. Split chores with Spartan. Larry and Gordee out on Beaver. I flew to Tillie lake to connect with chopper for visit to mobile II took grub and cots. Jake has found more lead zone showing. Will have to visit showing. Fly back to Kay. Total 1.7 flying hours.

July 15/68

John Ollie worked on drill as replacement for Gordee McLeod. Drilled to 71 feet. No mineralization. Fern and I spent day in office doing paper work and drafting.

July 16/68

John Ollie on drill again. U.S. Supr Cub at Yoon with new drillers helper and maps and personal orders. Spent the day logging core and Fern did drafting. Cleared out Lombardies. Word from Spartan that they are pulling out of Tillie Lake and that we will have to use

Have chopper out of Fuller Lake if we need it.

Brent Findlay not able to move yet, he says something new have developed that he wants to work on.

Put door frame in the cabin tonight.

July 17/68.

Having fuel problems with Lombardier. Water in gas that was brought from Pike Lake. John Allie worked on road. Fixed the approaches to the bridge Also cut fair wood for camp.

Drill at 217 feet in dolomite (sericitic) pyllite sequence with very very minor sphalerite. One good pyritic zone 172-180 feet.

Lined up Jimmie to move Nobile II tomorrow evening.

Logged core and did drafting today.

Pinned gables on cabin This evening with old BQ core tube.

July 18/68.

John Allie scouted new road to Green Hill and found line 96 the best. Logged core and did some drafting while Craig worked on Bomb and drafted.

Newsom & Harper closed

their camp on the Phil and walked in. They had a grizzly cub in their camp.

Zimmer arrived at 7:30 PM and Craig and I went south of MacEvoy to move mobile II. Looked at lakes showing. Just the PB-2m showing so just a series of narrow shears. The Cu showing is in banded chert and chloritized quartzite. Is a little more interesting, but not very high grade. See float exposed for about 400 along hillside.

Total flying time 4.2 hours

July 19/68

Newsom + Harper went to Phil to pick up the remainder of their camp with Fleming. Got Bombardier stuck in mud hole and spent afternoon digging it out. J. Allie worked with them.

Dirk Templeman - Klutz arrived in camp by Spartan Super-Cub at noon. Spent afternoon going over core and maps. Took trip to the drill at shift change.

Drove in the evening to bring Gary in plus quite a large grub order.

July 20/68

Dirk and Fran made a long traverse past Fay Lake down to Keystone knob on the road to Telly. Flowing one feet. Dirk back at 5:30 P.M.

I went to drill in the afternoon, stuped core and shut the hole down at supper time. Dirk left at 8:30 PM by YAS super cub. Had to walk 10 miles to MacMillan that evening.

July 21/68

Moved drill to No 14. Harper & Newson silt sampled. Summer & Ollie began installing diesel generator. Bob & Harry Ohe went to Kos. (Fran wandered into camp this morning.)

July 22/68

Larry, Ollie & Newson did road work. Harper ran silt samples. I finished logging RODH68 13. Drill Hole number 14 casing to 35 feet.

July 23/68

Myself and Harper ran leads on number 12, 13, 14. Summer, Ollie & Newson worked on road. Harper sorted out claim tags in afternoon. Neil - I did some drafting & worked on your cabin. Brown bear (cub) got into meat by the creek. Marcoux freed

him and I took some pictures. Larry shot him and we dumped the carcus in the middle of the lake.

Casing down to 84'. No core. Should be coring by tomorrow morning. Did some more work on the cabin.

July 24

John Ollie went by boat to tag claims on NW end of claim group. He got all the way out there and realized he forgot tags. Newson went sit sampling but wondered into camp about 11:30 (took two samples) John and Norm worked on shit house. in afternoon

John went clam tagging He seems to be the only one who can do any work around the camp. To new location. I was supposed to pick up Finlay in the field. Ollie could not find him. (did not have enough fuel.) I left some food and a map at the old camp.

The drill hole was down to 215'. Good core recovery.

John Ollie replaced Ron Williams.

4.9 hours chopper.

July 25

John Harper did tagging on N. end of Pay. Newson went out soil sampling but wondered into camp about 10 oclock.

This kid is hopeless. (He said he was sick so I told him to go to bed. Ron Williams dug new garbage pit, put fly on cook rack and then decided he didn't want to work.

I asked Marcaux if he could clean cook shack & storage tent. He told me to "fuck myself." Stay tuned for more of this exciting episode!

Harry & Ron did some work on diesel generator in afternoon.

The rods are stuck in the hole at 242.

Capt Van and Tim left the Hess at 2:30 to begin search for Finlay. Heard from Mobile 2 around 4:30. Finlay came back!

Van arrived at Fort in 5:15. Went directly to Hess. I am not happy!

(I have ordered 120' of casing & will have to run casing down to 240' to recover everything left in hole.

July 26.

Harper finished 5:18 sampling. Newsom made an attempt to tag some clams. Ron & Harry did work on diesel generator & hooked up wiring.

Casing was pulled and were running casing back down at 7:00 P.M.

(Plane arrived about 4:00 PM. with drill casing etc.)

July 27

Venson, Harper & Marcoux left for Ross around 12:00 noon. This solved two of my problems. Larry got lister gen. going. Bob, Haley-anne, John & Cordie arrived approx 9:30.

July 28

Gordon Davis and Brock spent the day going over OEX program and log results. Chris Findlay arrived late afternoon and looked at the core and walked to the grid area. Beaver in evening to take Davis & Brock out.

July 29

Spent the day writing report and drafting. Jean did office work. Drill crew standing by waiting for 350# hammer.

July 30

Cessna 180 this morning with drill equipment. Drillers worked all day but unable to free rods or casing. Jean & I did office work.

July 31

Drill rods still stuck, waiting for cutter from Whitehorse. Moved Mobile II to McEvoy bay chopper and then to Fortin bay

GWK Beaver. Supposed to ferry them from here to North of Traffic Mtn, but Chopper broke down. Total Chopper time 2.2 hours. ~~[illegible]~~

August 1

~~[illegible]~~ Beaver with outtake and drill equipment. Chopper in evening to move Mobile II. Total time 3.0 hours.

August 2.

Still waiting for news on Cab Group. Drill still not running Waiting for parts. Spent day writing reports and drafting.

August 3

Super Cub with rod jack rows etc for drill. Attempted jack but rods would not come. Will row back of on them.

August 4/68

Spent day backing off on the rods. Saved all except for 10' of rod plus the one frozed. Overshot set. Spent day drafting and writing reports. Fernando to Whitehorse with injured sight leg. (Broken)

August 5/68.

Who supposed to arrive this evening, just he went on to Swan Lake instead. Staking put stakes in old bold Collars

Drill recovered most of the casing.

August 6/68.

Moved mobile II to an area just N of the NE end of Selby Lakes. Total of 4.4 hours chopper Time. Beaver from Ross with Harry Atkinson. Ross Wagoe back to Ross. Took Beaver to Selby to get last years supplies. Drill all moved and ready to go in the morning. J Allen to Ross.

August 7/68.

Drill in overburden but at least running again. Dr. Aho arrived after supper from the Ross project. Went over some maps and had a few drinks.

August 8/68

Drill hit bed rock at 95 feet. At 97 feet 6 inches of massive aphanite. Dr Aho out to be suppose in the morning on route to Ross River. Spent the day drafting Phil maps. Filming out Ross after supper. He will be looking after the Selby project.

McElroy in

August 9/68.

Spent day drafting Phil geochem maps. Larry replaced differential in Bomb.

Aug. 10/68

Beaver at Lynd Time with Smith, Wolfhard Brock, Shrubsall and Sakai. Was B.C. Yukon flying service: Bob Hanson. Smith and Wolfhard left and we spent day going over fay maps.

Aug. 11/68.

Visited the drill and Phil group. Drill shut down at 324' and will move 400 SW.

Chopper at 5:30 to move fly camps. Split camp: Findlay and Fipkie South & McCoy 2.4 hours John and Dany to Mouth Lake 3.2 hours. 5.6 hours total. Shubsall and Sakai to Faulkner on return flight. Beaver from Ross with Skonseng and supplies. Brock to Ross on return flight.

Aug. 12/68.

Sent in samples for bedrock geochem. from PDDH 68-15

PDDH	①	- 57'
"	②	- 83'
"	③	- 117.6'
"	④	- 139.6'
"	⑤	- 174'
"	⑥	- 190'
"	⑦	- 216'
"	⑧	- 273'

Drill moved to new

location and ready to go in the morning. Plane did not come.

Aug. 13/68

Drill to 19 feet in overburden. Having trouble with boulders. Rods keep running off to the sides. Casing broke but retrieved. Finally got the sides working. Beaver in the evening with Craig. 2 drums of avgas and some grub. No new driller yet.

Aug. 14/68

Driller did not arrive and probably not till Friday so will hold Beaver off

till then.

Aug 15/68

Bomb. stuck us so drillers walking to work. will get parts on Beaver tomorrow. Beaver at supper time. M.K. myself and Fred to Loss.

Aug 16/68

Mary Anne left for Whitehorse & went to La Force Lake by Beaver and then to Fortin by helicopter. Hired Hunter Lisby at 600/month with prospectors agreement pending discussions with DSD. Could not move fly camps because of weather.

Aug 17/68

Ken spent last night in camp and moved fly camp today. Left with Pyke to check on moly of McEvoy. Findlay, Jake and Harry Atkinson to Wolf Canyon area. Jake was unable to locate Cu float in Mt. Pike area. Camps will be move again on Friday 23rd.

Aug 18/68

Chopper arrived here around noon. Bob left for Ross Shortly after.
PDDH68-16 down to 352' at 4-oclock (broken ground, drilling difficult)

Aug 19/68

Shut drill down at 377'. Moving 3 [illegible]00' south on same line. Bomb broke down 11:00 oclock. One broken track, other track has broken thru 1 of the 3 rubber bands. Mixed broken track together and drove home to camp. Drillers will be finished move by tomorrow afternoon.

Aug 20/68

Drillers finished move. No night shift (out of fuel.)

Aug 21/68

Van arrived 11:00 oclock and moved 4 drums to drill site. Down to 30' by 7:00 oclock Still in overburden.

Chopper time ≈ 2 hrs

Aug 22/68

Aug 23/68

Arrow & Bob arrived with B-2. Moved drill 10' down line. (casing stuck) Moved fly camp NW Frances lake. (Jake, Gunther, & Harley)

Bomb. is operational Pilot stayed all night. Rusty & Arrow to Hess on Beaver.

Aug 24/68

Bob & Shagpat left for Ross 10:30 AM. Chuck & myself re-run levels for #12 - #18.

Aug 25/68

Brent & Chuck sorted out rocks. Drilling is slow. Down to 65'

Aug 26/68

Brent & Chuck still organizing summers work.

August 27/68

Danny from Loss. Spent day going over Sheldon Occ & Geochem and Pay drilling. Drill moving to line 164 area starting today.

August 28/68

Drill still being moved ckwt to move Mobile II

but they were not ready to move so will delay it until Saturday. Fipkie reviewing summers geochem.

Aug. 29/68

Drill now running. Spent better part of the day filling out C.A.S. claim forms while Elson + Fip moved supply tent.

Aug 30/68

Aug 31/68

Chopper arrived 8:00 A.M. Moved Mobile 2 to South N.E. Evey. Bob went to Ross (4:30).

Sept 1, 68

Drillers having drilling problems. Needed cement. Beaver arrived 2:00 o'clock (3 bags cement from camp) No night shift (are waiting for cement to set (8 hrs)

Fipkie and Hunter to Ross on return flight.

Sept 2/68

No night shift last night. Hole down to 176'. Lost water and are waiting for cement from Whitehorse (No night shift.)

Sept 3/68

Drill shut down. Waiting for Beaver with cement.

Sept 4

Drill still down. No cement.

Sept 5.

Rolls Beaver arrived around 4:00 oclock with cement. Made 2 trips to Finlayson. John, George Bob + Sid Ackinson. spent night here.

No night shift (waiting for cement to dry)

Sept 6

Rolls hauled fuel all day. Clapper acroed with Bob around 2:00 oclock. Moved mobile II north. Traffic Htm.

Sept 7/68

Rolls finished up the fuel haul. Total 60 drums plus 6 100/130 g/which all were used during the haul. GNR owes Imp 6 drums.

Drill finally getting some core. No minor aphalcite.

Sept 8/68

Spent day drafting Phil Imp map. Flew camp to up on OEX geophem. Drill coring not too bad. Larry working on water shelter for Bob.

Leave at 3.30 with 100/130. plus personal orders. Did not return for Fsm in the evening.

Sept 9/68

Beaver from Hampton camp picked up Fiera on return flight and took him to Loss. Spent the day logging core. 113-124 in hole 119 is nice looking material. Very fine diss. Hole at 403' in evening and core angles changing so shut hole down. Will move tomorrow. Larry still working on Lamb shelter.

Sept 10/68

Chopper from Loss to move Lisky from North of Seaplain Mtn to South of McElroy area once again. Harry Atkinson back to Loss Lewis and John Allen out to take his place. Drill move 300 feet down hill from 119.

Sept 11/68

Drill underway, but cold weather affecting lines. Logged core and worked on Phil maps.

Sept 12/68

Water lines on drill froze solid last night. Temp must be down to about 15°. Worked on Phil maps.

Sept 13/68

Sakai arrived by chopper went down to look at Mole showings. Very small and not too big.

saw, B-Zn showings but mineralization is weak.

Sept 14/68.

Sakai spent the day going over drill core and I worked on Phil maps. Took trip up to 156 area and around by Enid lake.

Sept 15/68.

Choppy out to pick up Sakai. Went to visit Tachy. He had Moly showing in altered dolomite. Contains minor scheelite & doing further prospecting. Sakai back to Lorne.

Sept 16/68

Flaming back from Vancouver. No drill yet so Leon agrees to stay on until one comes.

Sept 17/68.

Set up diamond saw and began splitting core. Fairly slow but will be more accurate.

Sept 18/68.

Choppy from Lorne to move Tachy from S McKay to pick Gerdem up a west Fortin lake. J. Allen to Lorne. Shut down drill at 443 feet.

Sept 19/68

Drill move from hole 20 to 21 located L 128 station 68 South. Put line up slope from geochem anomaly. Water 900 feet away, but running very slowly. Weather cools so probably won't last too long. ~~[illegible]~~

Sept 20/68.

Leave from Loss with new driller Wes Allard and Willie Albertson. Leon out to Loss. Drill running, but creek dried up and had to move pump to larger creek 2300 feet away. Is running quite fast and should last a while. Willie chopped wood.

Sept 21/68

Drill in overburden. Will probably be in the order of 100 feet thick. Larry and Willie moved pump supplies and fixed road.

Sept 22/68

Larry and Willie made trip to Kelly to get Bombardier trailer. Brought back some supplies from Kelly. 2 inches of snow in the morning and still snowing in the evening. Won't last.

Sept 23/68

Finished progress reports for August while Glen split

Cor. Larry and Willie hauled firewood. Drill still in overburden.

Sept 24/68

Larry and Willie fenced Lombardier shed and cut more firewood. I drafted Fremaplete core 22 Weather warmer with heavy fog. Drill finally hit bedrock at 105 feet TS - 26 Pay.

HS - 14th Recs
23 Pay.

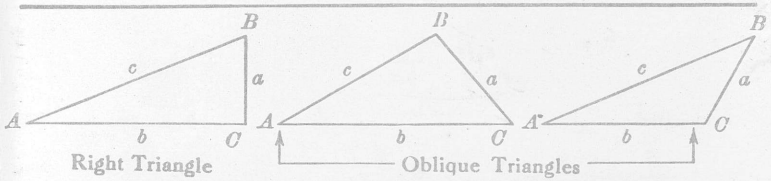
CS 12th whitehorse
23 Pay.

LS - 12th whitch
20th Pay.

M.A. - 22
23

Mon. 20
23

TRIGONOMETRIC FORMULÆ



Solution of Right Triangles

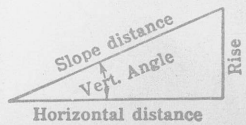
For Angle A. $\sin = \frac{a}{c}$, $\cos = \frac{b}{c}$, $\tan = \frac{a}{b}$, $\cot = \frac{b}{a}$, $\sec = \frac{c}{b}$, $\operatorname{cosec} = \frac{c}{a}$

Given	Required	
a, b	A, B, c	$\tan A = \frac{a}{b} = \cot B, c = \sqrt{a^2 + b^2} = a\sqrt{1 + \frac{b^2}{a^2}}$
a, c	A, B, b	$\sin A = \frac{a}{c} = \cos B, b = \sqrt{(c+a)(c-a)} = c\sqrt{1 - \frac{a^2}{c^2}}$
A, a	B, b, c	$B = 90° - A, b = a \cot A, c = \frac{a}{\sin A}$.
A, b	B, a, c	$B = 90° - A, a = b \tan A, c = \frac{b}{\cos A}$.
A, c	B, a, b	$B = 90° - A, a = c \sin A, b = c \cos A$,

Solution of Oblique Triangles

Given	Required	
A, B, a	b, c, C	$b = \frac{a \sin B}{\sin A}, C = 180° - (A + B), c = \frac{a \sin C}{\sin A}$
A, a, b	B, c, C	$\sin B = \frac{b \sin A}{a}, C = 180° - (A + B), c = \frac{a \sin C}{\sin A}$
a, b, C	A, B, c	$A + B = 180° - C, \tan \frac{1}{2}(A - B) = \frac{(a-b)\tan \frac{1}{2}(A+B)}{a+b}$, $c = \frac{a \sin C}{\sin A}$
a, b, c	A, B, C	$s = \frac{a+b+c}{2}, \sin \frac{1}{2}A = \sqrt{\frac{(s-b)(s-c)}{bc}}$, $\sin \frac{1}{2}B = \sqrt{\frac{(s-a)(s-c)}{ac}}, C = 180° - (A+B)$
a, b, c	Area	$s = \frac{a+b+c}{2}$, area $= \sqrt{s(s-a)(s-b)(s-c)}$
A, b, c	Area	area $= \frac{bc \sin A}{2}$
A, B, C, a	Area	area $= \frac{a^2 \sin B \sin C}{2 \sin A}$

REDUCTION TO HORIZONTAL



Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus: slope distance = 319.4 ft. Vert. angle = 5° 10′. From Table, Page IX. cos 5° 10′ = .9959. Horizontal distance = 319.4 × .9959 = 318.09 ft.

Horizontal distance also = Slope distance minus slope distance times (1 — cosine of vertical angle). With the same figures as in the preceding example, the following result is obtained. Cosine 5° 10′ = .9959. 1 — .9959 = .0041. 319.4 × .0041 = 1.31. 319.4 — 1.31 = 318.09 ft.

When the rise is known, the horizontal distance is approximately: — the slope distance less the square of the rise divided by twice the slope distance. Thus: rise = 14 ft., slope distance = 302.6 ft. Horizontal distance = $302.6 - \frac{14 \times 14}{2 \times 302.6} = 302.6 - 0.32 = 302.28$ ft.

MADE IN U. S. A.

JOHN T. GARRITY

PAY CAMP

'68

LOG Book.

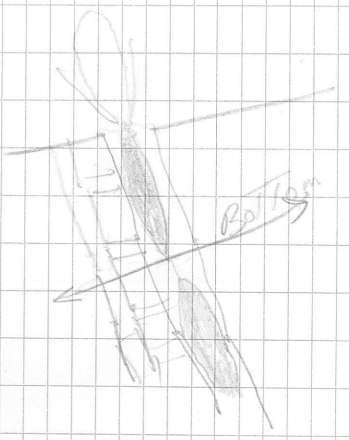
(2)

DISTANC



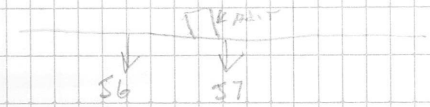
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8	12.0
9	13.5
10	15.0
11	16.5
12	18.0
13	19.5
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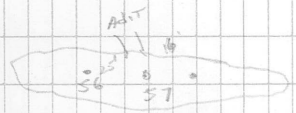
UFFEL & ES



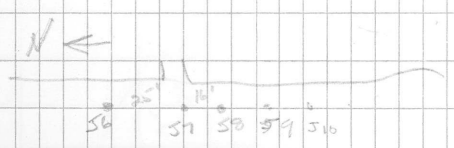


Lower Johnson Adit

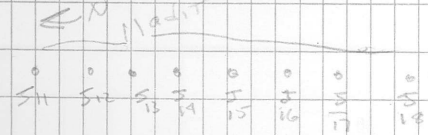




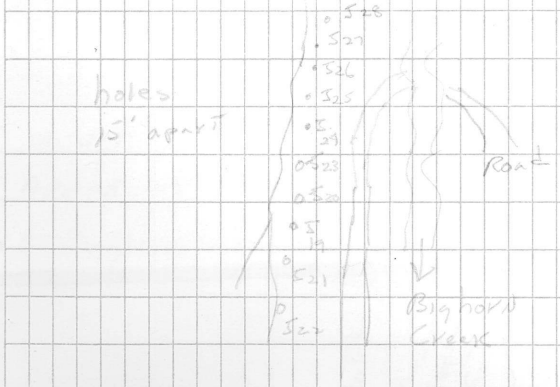
Lower Johnson adit



Upper Johnson adit



holes 15' apart


holes
15' apart
S28
S27
S26
S25
S24
S23
S22
S21
S20
Road
Bighorn
Creek

Sept 20, 1966

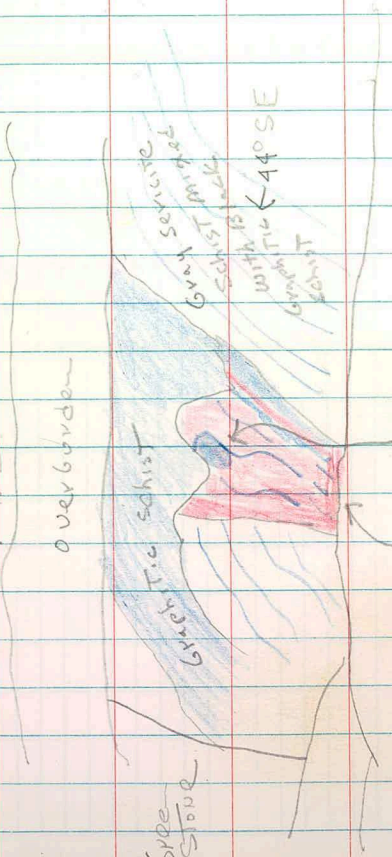
Ron Murdock Claims. 24 claims

East Trench -

Vein material 6 ft - Strike N55E - Dip 44° SW

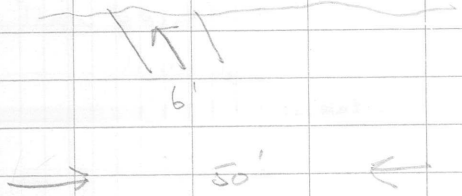
Apparent Green stone hanging wall and graphite schist foot wall.

Trench about 12' deep.



Benito → Christinae - 9 claims

Sept 27, 1966



Oxidized - Quartzite

15" vein

strike - E-W

dip 75 S

S. Hawthorne

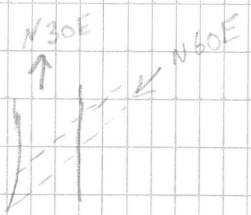
Sept 28, 1966

1ST Vein showing - S - E-W Dip 60N

2nd Vein Showing - Copper oxide stain
S - 80W Dip 65N

3rd Vein Showing - N10E - 90 - Manganese
Stain - oxidized - Quartz

Apparently Several E-W Shears across
property


N30E
N50E

D.D 5-1

0-14 - massive QTZITE
14-21 - 1 FT core - U.ggg QTZ.
21-49 - SERICITE SCHIST
49-62 - SCHISTOSE QTZITE
62-67 - SERICITE SCHIST
67-92 SCHISTOSE QTZITE

Cosmoc
white wine.
Beer.
2 rye
1 rum.

trolls
pants
MA belt.

Sept 25/68

Drill still running well but found caving because core angle so shallow. Leave up this evening with sub order and new pump spear.

Sept 26/68

Took trip to drill for purpose of shutting down hole. Core angles variable so at hole 80. Have to penetrate overburden so great that I hate to shut hole down. Miller cut line 189° from hole 21.

Sept 27/68

Sept 28/68

Shutz down so had to have 180 out with parts for drill.

Sept 29/68

Drill ~~shut down waiting~~ running again.

Sept 30/68

Drill move to hole 32 500 feet from 21 on bearing 189°.

Oct. 1/68

Brock & Davis from Ross to review program. Was decided that hole 32 would be the last of the season. Willie Atkinson to Ross.

Oct 2/68

Frem split core while I selected core for Van.
Drill running in overburden.

Oct 3/68

Snow this morning and did not melt as ground freezing now.
Suntu worked on cabin.

Oct 4/68

Lisby tagged claims Frem packed some office gear while I selected core for shippment to Van.

Oct 5/68

Suntu work on cabin making ready for winter cache. Drill still in overburden but rods not tight. Beaver made 3 trips with fuel oil. 9 drums Shipped AQ equipment back.

Oct 6/68

Drill finally hit bedrock at 154 feet Drilled to 182. Weather cold but lines not freezing. Filled two drums with canned food to sink in lake.

Oct 7/68

Drill shut down in the morning. Beaver with new pump sprocket at noon. Running again at 1:00 P.M.
Suntu garbage pit for next season. Fed in

bed with sore shoulder.