

April 17/73

For Surprise Resources

± May 15/73 - - - Est. 3-4 days field time depend-
or no. of props examined.

Re. Atlin Otter Cr / Wright Cr. place again w. Tom Connolly

N.G. Take magnetometer for check on Otter Cr black sands.
(Alnico magnet to remove mt from Au)

Run 2-3 aug profiles for geophysics, especially re seismic or for resistivity surveys on bedrock (Phil Nielsen).
(No geophysics explor done in recent years)

Take hammer & soil for sampling ~~stream bed~~ Lucky Group
(Piston & several C.G.'s) gold silver showwork - ~~thorough~~
or may not have some bulk potential - has been turned
down by some some mafics (at \$37.50/oz Au + 1.50 Ag/oz)
Some impressive assays here; hence requires a fairly
thorough sample check.

* Can test sample water comp. w. shallow bedrock just
up-stream of main pit via sluice box (count shovels).

Tom notes plenty of power equip avail in area
from father of Whitehouse contractor who has fully prospect.

Note Adnan fully prospect on W. side of Surprise Lake.
Congress Mc Kenzie of Canadian Mine Services familiar
with this + locality.

N.G. April 20 (R. Ray @ Mayfair Hotel) - Sugg. looking into status of
Engineer Mine property (claims) and looking up data re
present owners.

Tom Connolly will get in touch with me around
mid May + advise re suitability of conditions for exam
Atlin 134.

High Water usually in June; best to do exam
before this

- Poss. reserve 2-3 days for 2nd trip around June 15/73

April 19: Buddy sugg. Reserve 2-3 (4) days about mid-June for
2nd field trip (poss geophysics, testing + delin of channels
(may be seismic))

Scorpion Reservoir/Otter Cr. Sept 10/75

To Trevor Martin - Sept 10/75.

Re contemplated use of pump to supply lake water for pit-sluicing + washing - plant operations on Otter Creek.

Require 6,000 - 7,000 Imp. gals/min. (Benstrand).
through 2200 lin. ft. of pipe.

Static head from lake surf to pipe discharge at plant - - 105'
($\Delta H = 75' + \Delta h = 30'$)

Extra pressure head req'd for line friction losses - - ?

Total pressure at pump outlet - - -

Questions:

Pump size (spec) 16" x 12" x 23" - series 9000

Power req'd (diesel) - 250 H.P. G.M. @ 1200 rpm

Cost of new pump + G.M. motor - \$40,000

Cost of 2200' of requisite pipe + fittings + valves.
(20" ϕ)

1 Imp. gal = 10 lbs

6000 - 7000 G.P.M. = 70,000 lbs/min

Work done, w. fr. = $\frac{70,000 \times 105}{33,000} = 222.73$ H.P.

Hence 250 H.P. pump to do job.

Surprise — Attention.

Re: Nov 27 (aft) phone call from Ruddy Day, 720 min.

- (A) R. Day authorizes W.M.A. to show Thornton Donaldson my maps, reports, estimates, and subsequent mat'l. rec'd from R. Day. Also on the attention properties. Also, to provide Don w/ copies of any of above mat'l. he might require. Write Ruddy after Don's look-see complete.
- (B) Ups on Spruce Cr. → 5 oz Au., and will pass yield on addnl 5 oz. when all of black sands are cleaned up. Also, Ruddy (w/ W.A.) hope that he can get Jim Walling's surface next season.
- (C) R. Day has heard that Placer Develop may have consid. info. on attention placer prospects incl. Spruce, Otter, & Wright Creeks, and that it may be possible to approach Ed Sholy on this. W.M.A. notes that it might be difficult to arrange for a look at this mat'l. but opportunity may present itself. — Ruddy advises to let my ideas on how to go about this "germinate".
- (D) Stripping price (across the board for Otter - Wright - Spruce Creeks as quoted by General Enterprises (excess contractors) of Whitehorse = 6.5¢ ⁽¹⁹⁷³⁾ per lb. Ruddy feels this high but W.M.A. points out that each of Creeks would have its own operating & cost parameters. — parties Wright Creek, where water could present a real problem.

Nov. 30/73 Re conf. w/ Don Donaldson; in answer to his query for a ball-park estimate of gross potential W.M.A. indicates a 5-10 million dollar range. — but admittedly a ball-park estimate pending further exploration.

Lori Explorations Ltd. G.C.N.L. 137/1973 -

G.C. Contratto :

Have drilled 13 churn drill holes totalling > 500' (avg. #40')
on their Maskan Placer gold property.

This completed Phase I. (Phase II @ 500' starts July 2)

6 (of the 13 holes) encountered commercial values.

Assump of holes 5 + 6 (@ \$100/oz)

Hole 5 avg 82¢/cy.

" 6 avg \$1.00/cy.

Results of holes no 1, 2, 7 + 12 are being evaluated &
expected shortly.

Production equip in good working order & start next 2 days

Capacity of present wash plant is 100 c.y./hr.

Testing of "virgin areas" by trenching now underway.

— Obviously deposit (pay streaks) is relatively shallow.

131500

Inquiry in connection w. sampling gold placer deposits & probably bedrock. - clients properties in Athin area
Objective - to sample 50' - 150' vert sect. of

loose to coherent silty/sandy till w about 20% - 40% boulders avg. 1 ft. diam. includes few feet to several 10's of feet of alluvial sandy-silt and fine gravel over fract. bedrock. clients' properties are in Athin area.

Prefer dry-sampling.

Local drill occurs good w local bulldozer assistance.
Holes 50' - 150' long through above section + 5' - 10' fractured bedrock = shaly argillites / argillaceous quartzites or soft greenstones.

Equip Sizes - Becker Overburden Drill.

Outside & inside hole (bit) diameters - $6\frac{5}{8}$ " outside
Home base for equipment. $4\frac{1}{4}$ " inside
Any units based in northern B.C. or south Yukon.

Cost of mob - demob. (+1900 road miles to Athin).

Reasonably-expectable drill-sampling rate per field hour of shift. 15 ' - 20 ' / hr. drill + sample. - 10 " sample / ft.

Expectable range of total direct costs / ft. @ 6 - 8 / ft in predom. alluvial gravels.

Availability of equip. ?

pos 8 - 12 / ft in predom. boulder till to 100-150 depth.

add water periodically to flush out

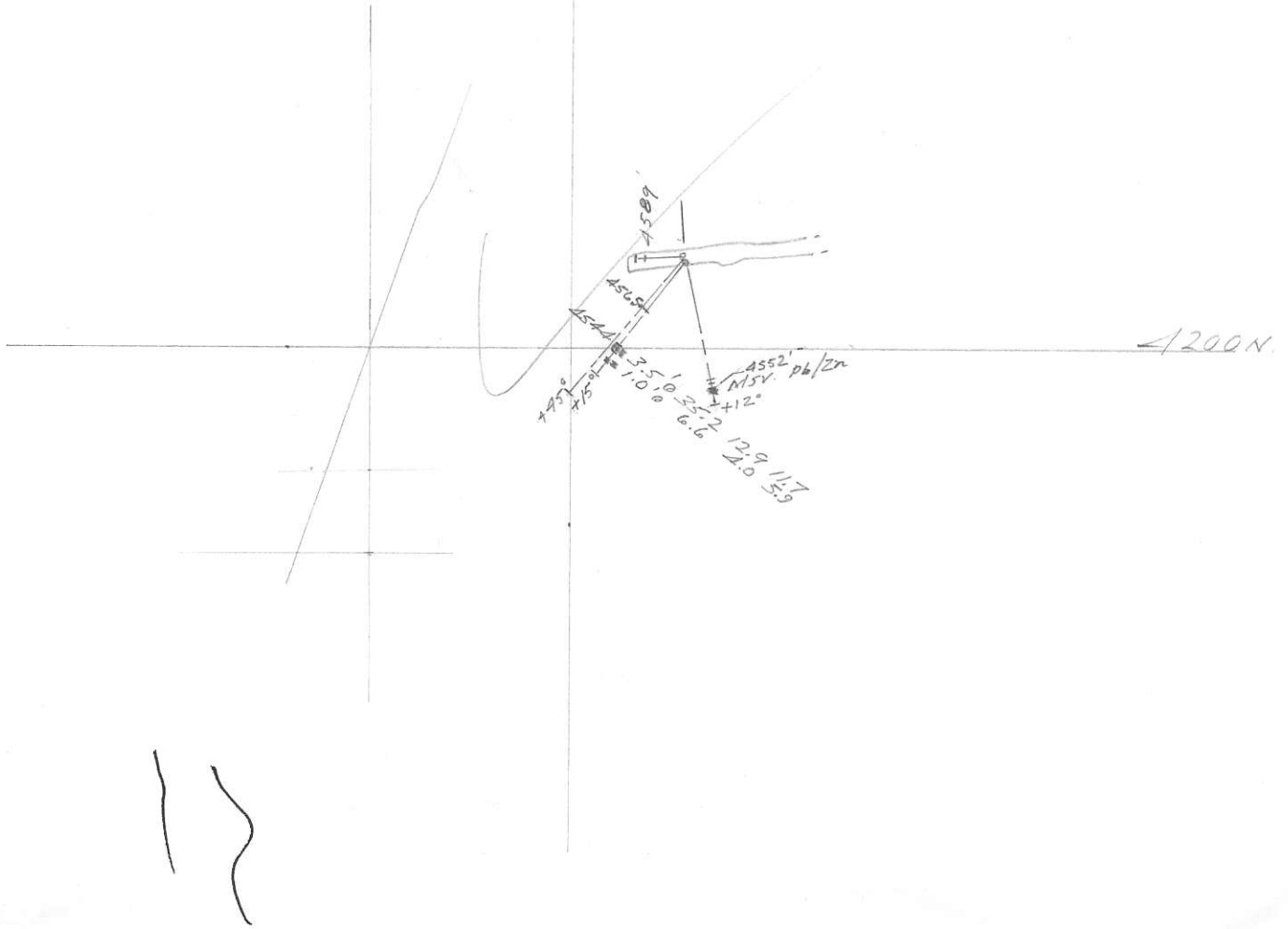
8000 ft - lbs - small unit above hole dia - \rightarrow 150' max depth
18,000 ft - lbs - larger power " , same hole dia \rightarrow \pm 250' depth

Rid - basic part on $\$/hr$ to cover equip & admin costs
Second part on $\$/foot$ (w built-in incentive).

4636
520
110

W. SHARP, M.A.S.C. P. ENG.
CONSULTING GEOLOGICAL ENGINEER
1080 FLOYD AVENUE
VANCOUVER, B.C. V6M 1R8
4589
520
69

Determine slope margin clews if possible. per 20 scale field ref. map



17

March 19 - 9:00 PM