

PE-068-04

SUNNY CREEK
HOBBS ENTERPRISES NOTES
AUG 1956

SLATE CLASIC - NOBB ENTERPRISES

8/5/56
 8/21/56
 9/15/56
 9/21/56

PARSONS. BOB BECK MAKING 1/2 HR EARLIER.
 BECK TO CAMP WITH MRS BARR & ZKINS.
 TO SLATE CR, 2 1/2 TRK.

11/4. TOUR OF JOBS - stripping 15 to 20' to 12'-15' pay area

Upper end (where Sundt's Grade hit BR & took out
 \$30,000. This lost section.
 On site limit Beck took out \$51,000 - 127' x 97'
 Bedrock area in 1950.

Beck - started Gold Reids drilling - 14 holes in
 800' section ending in front of shop - shows
 200' x 800' section valuation of \$800,000.
 (100,000' = /100' section).

Depth - lower end	<u>To Pay</u>	<u>To BR</u>
- Upper end		

Bedrock Grade = 8% - (limit 5%)

Top of Pay =

Yardage moved this season's stripping to date

= 90,000 CY

Hopes to take out 25,000 CY of pay. ^{8/10} _{9/15}
 (Gross in that area estimate \$100,000,000.
 Creek confined to extreme limit about

15 to 20' above Top of pay.

Plans to run 2-11 hr shifts.

Clear to Partly Cloudy 7/25/56

Roll # 3-56 7/24-noon
Exp # 1 f 16. 1/100 Clear. Fish Wheel - Klutina
9:30A
7/25 Exp # 2 & 4, f 11. 1/200 Clear - partly cloudy. From plane
looking down on lower Slato Cr operation.
(Exp # 3 - Blank - Turned past "stop").
1:00P - Exp # 5 & 6. Looking down on Slato Cr. project.
from left limit slope ± 1500' to 2000'. E. of E. end of
stripped area. Looking S 65 W. Partly Cloudy.
2:30P - Exp # 7 & 8. Looking downstream from upper
limits of "pay" area.
1950 ft in rite foreground. Cats & Carry-all
in "water grade" drain. Carry-all haul 1057. 1/200

7/25/56 - Roll 4-56 Slato Cr.

4:30 - 5P - # 1 to 4 (Incl) Camp area, Drainage ditch
& stripped area.
f 16. 1/100. Clear.

7/26 - Exp # 5 to 8 Incl. 9:30 - 7:30A

Camp area Slato Cr from plane - up &
downstream. All @
f 11, 1/200. Clear. Rite

7/25/56 | Slate Creek

Clean-up notes -

Amalgam plate 48" x 30" @ 7" grade/4'

Plate greasy - requires cleaning & dressing.

Ag plated | Cu plate (?).

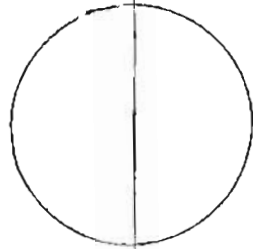
1. ...
Cleaning ...
at ...

2. ... Driller

3. ...
...
...
(H 30 591)

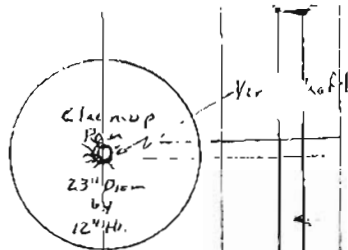
7/25/56

PWTM



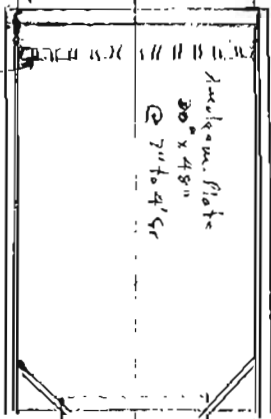
Vertical
Cleanup Pan
2'3" Diam
12" Deep

SH
S. 21-1-1/2-24



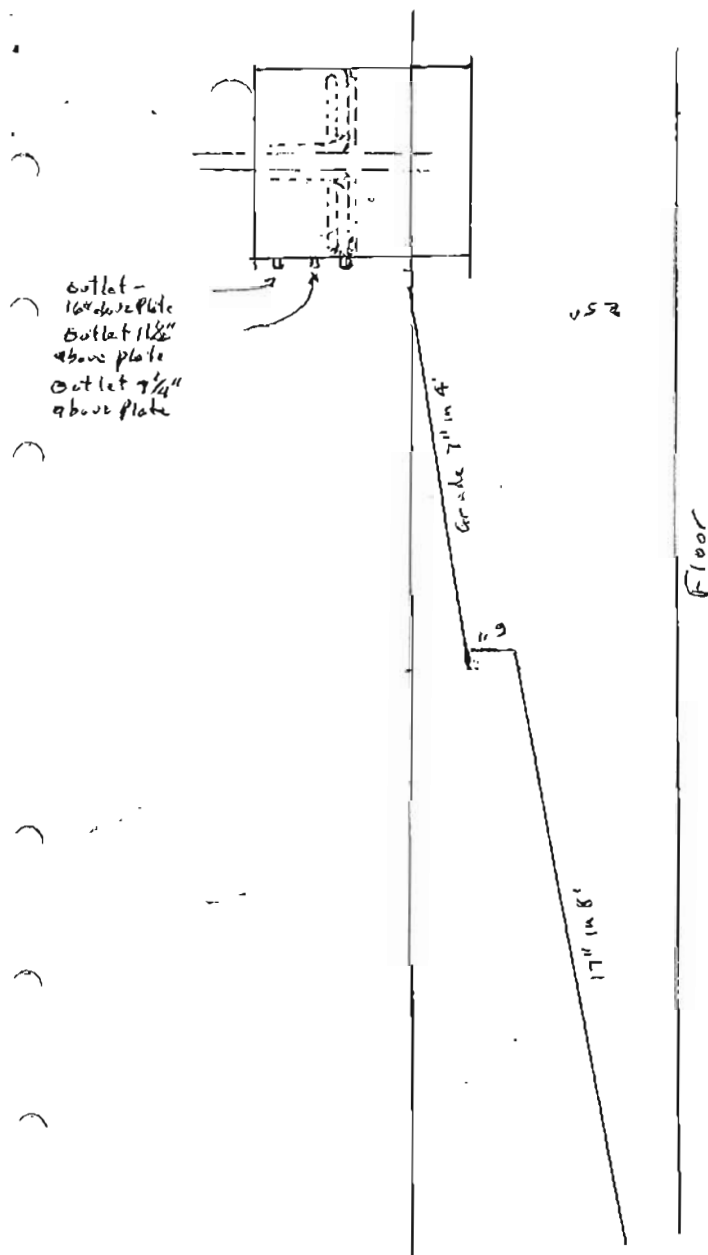
Drive Pulley

Distributor
board, 4" from
end, with 1/2" Hds
@ 2" centers



Canvas lined Bottom

18" x 8" Box



outlet -
 1/4" above plate
 Outlet 1/8"
 above plate
 Outlet 7/16"
 above plate

552

September 8, 1959

Mr. R. H. Seraphim, Geologist,
 Moneta Porcupine Mines, Ltd.,
 Room 408 - 402 West Pender St.,
 Vancouver 3, B. C.

Dear Bob:

RE:- Monte Christo Mining Co.
 Placer Prop. Slate Cr.
 REF:-Your July 24th Inquiry

My apologies for the long delay in replying to your above inquiry, which was received on returning from field trip end of July. Since then I have been out of town most of time and have been way behind on office correspondence and other details too numerous to mention.

I am quite familiar with the Slate Creek operation of Bob Beck (Monte Christo Min. Co., Inc). There was a small block of ground left at lower end of Slate Creek gulch which thru the years defied the oldtimers efforts to work the deep ground - about 25-30 feet depth at upper end and 65 feet at lower end of that 800 foot section. He did recover around \$2.60/cy in '58 from top to bottom, which surprisingly checked an oldtimers drilling calculated values (surprising because the oldtimer was noted for his lack of veracity).

In '57 Beck recovered (produced) a shade less than \$100,000.00 with an average value approx the same/cy, stripping 20 to 30 feet of old tailing accumulated at lower end of gulch from 1905 to 1950 operations washed down by spring runoffs and heavy summer rains from the oldtimers work upstream. The 1957 operation was conducted first by stripping with cats and carry-alls and then shoving the pay gravels to central point in the cut where it was picked up by 2 cy bucket operated by slacklines. The latter hauled it up the right limit slope 100 ft vertically where it was dumped in hopper and washed thru 32" steel sluice set on 10" grade, with tailing dumped in gulch at head of the cut. Available grade (10") was not sufficient to clear the heavy (coarse) concentrates efficiently, slowing up the rate of feed. This operation was obviously slow and inefficient, but was dictated by fact his equipment was what he had accumulated during a number of years sub-contracting on road and bridge approach jobs. It was obvious to him from the start that a 2 to 4 cy dragline was the most efficient for the job, but he was not in a position swing a deal for it.

Beck

Last year a local business man staked to a 4 yard dragline, with the string attached that the moneybag's man should be in charge of the gold-saving end. That condition resulted in the most frustrating mining operation I have ever seen as M'bags man would not permit mining only one shift, cleaned about every second shift (requiring 2 days) and was stymieing the operation by his "fear" of not catching all the gold. Also, that character insisted on the most impractical possible setup which he would not move or change, which called for stacking tailings with 2 cats (DBs) up a 15 to 25-39% slope. All of which "bottled necked" the whole operation. The last of August Mr. M'bags visited the property, wanted to know why no yardage was being mined, was told to look around, did so and immediately sent his "man" to town. Most of the production was then made in the next 2 weeks.

R. H. Seraphim
RE Slate Creek Placer

Sept. 8, 1959

Needless to say there was no profit resulting from the '58 operation.

My last visit to the property was for few days in first week of July this year. At that time the New York owner of lower Slate Cr was causing uncertainty by wanting to change terms of Beck's lease. Until it was settled Beck moved up stream from the deep ground and was reworking his '57 tailing. I have not been in communication with him since then to learn whether the lease was squared around to Beck's liking or whether he told NY to "shoveit" and moved upstream to other vir. in ground. he has under lease from other owners.

rite limit
It is my opinion that the area from mouth of Miller Gulch (a trib of Slate Creek whose short drainage was the heaviest producer of the district) upstream to Grouse Gulch (a short left limit trib of Slate) thence over a low divide to head of the Chesna River has a great deal of merit and promise, and a large yardage potential. Bulk sampling of approx ~~for~~ 15,000^{cy} at mouth of gulch went 60¢ per cy in the '30s but lack of water prevented working. Here, that problem can be solved by re-circulating the water from pond in upper Slate Creek. Beck has a lease on this ground on around 8% royalty (with, I believe, a reasonable cut-off price for the property, but am not sure of actual terms).

Adjoining this block of ground, Beck made a deal for some patented ground on the Chesna side of the low divide. There are 4 or 5 claims in this group which owner set a price of \$35,000.00 to be paid at end of 3 years. The owner is widow of man who held the claims for many years, and put down 10 or 12 drill holes in the late '20s (prior to my arrival in District in '32). Logs of the holes show their depth to range 55 to 90 ft with values around 85 to 90 cents. The drilling certainly does not appear to be complete - that is, it was confined to a strip near foot of mountain slope on north side of the widening valley. The yardage potential in this area appears to be large also.

Beck also has lease on 22 claims 4 miles to east of the Chesna ground on the right limits of Middle Fork of the Chestochina River valley. This is bench ground upon which I spent a number of years in developing (drilling, etc) for several associates. Always short of funds we never were able to complete our drilling program and get ~~work~~ into production before suspension of gold mining was forced in 1942. My work showed over 600,000 cy in small block of ground with an calculated value of 57¢ to 60¢. However, my drilling pattern as submitted to RFC for a Loan of \$20,000.00, was not permitted to be changed when it was found the gold run was more or less at right angles to our original believe (based on surface topog and indications in a 12,000 to 15,000 cy low head hydraulic cut, from which \$12,000 was produced). This dictates some additional drilling between the original drill lines. For many years we held a block of 72 claims - which was reduced to 22 "key ones" a year or so ago. The lease on this ground calls for nothing except assessment work for 5 years, and production on or before 10 years, with a continuing $7\frac{1}{2}\%$ royalty from production.

If you are seriously interested in placer these above areas are worth investigation and study, and will require considerable drilling to prove up the required large yardages for a profitable operation.

Going to stop here as it is getting late and plan leaving on week or 10 day trip to Kuskokwim region in the morning - or Thursday at latest.

Olga joins in sending Best Wishes.

Sincerely yours,
Martin J.

ROTH A. BRANSON
ROCKY GLEN
IDLEWILD, CALIF.

The Hazlet
is a difficult
but well believed
of mining below
course, additional
proves the economic
contains the
The high cost
which exist in
today.

G. M. FINLEY
205 EAST 78TH
New York 21, NY

State Commission

68-311 11/12/57
(Owen's day)

Phil R. Holmworth

Anchorage

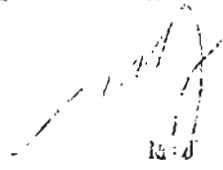
Martin Jaeger

Nov. 12, 1957

HOSS ENTERPRISES, SLATE CR. PLACER OPERATION, MT. HAYES QUAD

Enclosing copy of brief summary of above 1957 operation which was requested by Mrs. Butcher (Owen Butcher's widow). Mrs. B has been doing the bookwork for this venture.

Purpose of request was for brief brief report to forward to the Slate Creek Mining Co. office in New York.


RJD

November 8, 1957

BOBB ENTERPRISES,
Spennard, Alaska.
General Delivery.

Dear Sirs:

RE: 1957 Slate Creek Placer Operation

At your request a brief summary of the past seasons operations is submitted. This is based upon personal observations made during mid-June and again in mid-September at termination of the seasons operations at request of Robert W. Beck.

1. Mining operations began May 30th and terminated September 10th, 1957, covering a 102 day period.

2. Actual days mining is estimated at 65 to 70 per cent of that time from records kept by Mr. Beck, which is 66 to 71 days on a two 11 hour shifts per day basis.

3. Yardage mined and fed to the sluice boxes with dozer and slackline equipment is estimated at 30-to 32,000 cubic yards, which gives an average of 425 to 455 cubic yards per day of actual mining operations.

4. Substitution of a combined sectional steel Hungarian-longitudinal riffle (made on the job) for the longitudinal riffle, installed from the head box down two thirds of the sluiceline, reduced the heavy concentrate volume retained in the riffles about one third. The new riffles also proved to be more efficient gold savers.

5. Cleanup of lower half of sluiceline at seasons end resulted in recovery of only a minor amount of gold. This indicates that losses in the tailings were reduced to a minimum and are considered to be negligible.

6. Final mint returns for the last three retort sponges shipped had not been received on last contact with Mr. Beck about October 25th, 1957.

However, gold recovery for the season - based upon weighing the "sponge" on spring scales at the mine, and on gold scales upon delivery to the Northern Commercial Company, Fairbanks, for their shipment to the Mint - is calculated at 3200 ounces (before "melt").

With an estimated average Mint return of \$31.00 per ounce this years production would be \$99,200.00. On that basis the average value of the 30,000 to 32,000 yards would be \$3.10 to \$3.30 per cubic yard.

As the mined area was stripped to top of the "pay" gravel in 1956, and the thickness of those barren (recent) overlying gravels being 15 to 20 per cent greater than the pay gravels, the average value from origin-

November 8, 1957

al surface to bedrock would be \$1.24 to \$1.38 per cubic yard. This average value is approximately one half of reputed calculated average value of Goldfields Consolidated drilling results. (The long promised drill logs of that company's work has not been made available for study by an individual claiming to have copy of them).

C
7. Approximately one third of the bedrock area in the mined section was above the ponds water level. Balance of area - about 200 feet wide by 400 feet long - was covered with water, having a maximum depth of 20 feet at the lower end. Expense of dewatering the out with large pump used to keep the water out of the pit while mining, to permit "panning" the entire area, was not justified.

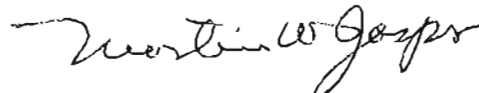
O
However, the dry bedrock area - an estimated 80 percent of which was a residually weathered slate, and the balance being granitic dikes or "tongues" intruded into the sediments - was checked by panning at 10 points on September the 18th. Of these 6 were taken in the slate and 4 in the granite, digging down 5 to 6 inches into bedrock at each point. The slate shows only trace values, and the granite from trace to 4 cents per pan.

P
Results obtained upon checking bedrock for values show that the bedrock was well cleaned in the area tested as mining progressed downstream, and that no appreciable values remained. It also proved there was no original bedrock penetration of gold values.

Y
8. This small area of virgin ground at mouth of Slate Creek Gulch has been and is a difficult piece of ground to mine. Its depth, exposure to "flash" flood and slide hazards combine to make high mining costs. Costs could be materially reduced by use of dragline equipment, but it is a question whether sufficient ground is available in that immediate area to justify purchase of that type of equipment.

9. The operation is considered to have been conducted in a minor like manner, is a credit to the operators, and has resulted in the largest gold production on the creek in one season for 30 to 40 years.

Very truly yours,



Martin W. Jasper
Mining Engineer
Territorial Department of Mines

cc: Original & 1 copy to Mrs Butcher
: copy to Bob Beck
: copy to PRH

Mould

10/30/57

Yardage Mould 30000 C.Y.

Aver. Value

Production

3200 oz - before melt - 1957
(Est @ \$31.00)

Mining operations - start May 30th } 102 days
Suspended Sept. 10th }
Days Mining - Probably +50%

~~10/30/57~~

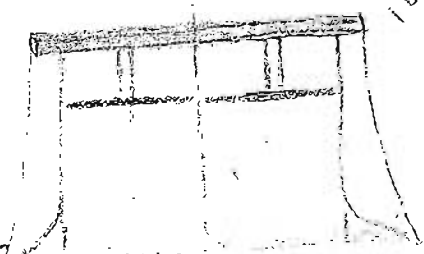
31.12
31.12
31.12
31.12
31.12
31.12
31.12
31.12
31.12
31.12

Actual days mining between 10/30/57 & 10/30/58

5/30000
600

.888
33
4440
2564
\$31181

12
40
500
102



102
7.76%
7.14
71.30/42
660.00
2884
1.50



September 3, 1957

Mr. Robt. W. Beck,
Hobb Enterprises,
Slata Creek,
via Gakona, Alaska

Dear Bob & Betty:

I have been going to drop you a line for some time past to send our sincere regrets ~~for~~ over the very sudden and unexpected loss of your partner, Owen. I did not get back from the two weeks in the Kuskokwim region until July 18th; Olga met me at the airport and her first remark was concerning Owen.

Mrs. Butcher phoned me last Thursday or Friday and relayed the message to effect that you wanted me up there the 10th of this month to give you an assist re laying out a testing program for balance of the season. I advised her would be glad to do so and believe that I can make that date - or the 11th.

At present am in more or less position of "suspended animation" (or som-pen) or should we say a "stew"? Week or 10 days ago request was made to hold myself in readiness to show some New York field men for one of larger company's an area that I have mapped, photographed, and reported upon which for some strang reason various "lockers" have not been able to spot. The personal tour is planned via 'copter at their expense. Week ago one of interested party phoned advice the hot-shots should arrive by last week-end. I contacted the fellow Sat. and he reported it would still be about 10 days. Tomorrow I plan to contact the fellow and suggest that I show him the area on the "hoof" as I have a number of trips to make before the snow starts flying in the mountain areas. I have 2 or 3 other property owners to satisfy in the same general area, and I want to wrap that whole bundle of exams up between Thurs of this week & 9th or 10th of the month. I'll give odds that 'copter flying days will be hard to lay hands on - and the other trips are as important to owners as that one.

I would suggest that you radio-phone me at home nite of Sept. 9th - if I'm not there give message to Olga as to whether or not you want me to bring transit along, and also advise her whether you still have the nitely (& w hr) radiophone schedule thru Fairbanks so that I can phone you before leaving here or from Glenallen, and whether to meet you at Paxson or Gakona. I should be able to make ^{it} there by AM of 11th at latest. (My schedule has been screwed up all summer by various causes).

I have heard thru several sources you are having a very good season & sincerely trust that is correct.

with kind personal regards to you, the young people, and the crew members I know,
Sincerely yours,

Unchange -
P.O. Box 2139
July 3, 1957

Mr. Koff Beck
Slave Creek - via Yukon, Alaska

Dear Bob & Betty:

Finally received the Kodachrome film of the "3 jugs" and the "oil"
last weekend - a welcome sight of work.

Sent in the "black and white" - all with slants of the "Passer"
at same time (about 2 wks ago) & just received them yesterday. Had
begun to think they had been destroyed by the printer. Took them home
last night & found to bring them down to office this afternoon & will stick them
in the "crista" before mailing.

Bill & I will go to K... to talk to you - will
be glad to see you. All good.

Have heard the "general" and the "S... to" to me in... was gone
few days and returned to office - probably had a long list of "suppliers"
waiting attention. A long list of "suppliers" would not be able to use the
"cribs" you prepared for them.

Trust operations are growing satisfactory and that you and
Associates are making the desired progress and "stealing" away ample
amounts of the yellow stuff from weekly shipments to Fort Knox
to ensure successful season and a relaxed winter (at Kalen Springs).

Bill & I are very interested to hear how the recovery & yardage
huddled are standing up.

Regards -

Merlin (Bill P.)

Will also include film & negative from Pat, Susan Q.
Anything new on the "S... Nelson" or "S... operations"?

W.G.

68. Dnd Henry

Phil R. Holdsworth

Anchorage

Martin Jasper

June 18, 1957

SLATE CREEK TRIP. MT. HAYES QUAD.
HOBB ENTERPRISES.

Returned from the Slate Creek placer operation about 2 AM
June 16th.

Solved the amalgamation problem very satisfactorily. Bill
Powell is the one to be credited with the job.

The old Joshua Hendy clean-up barrel was discarded, and a
small concrete batch machine substituted. Using 2 to 3 inch
pebbles, concentrates were ground for 4 hours, and then added
rotated
quicksilver and ~~reted~~ for half an hour.

Grinding time for the concentrates was gradually reduced to
the
2 hours, with shorter interval being equally satisfactory in
recovery - and preferable from time consideration.

Beck was very pleased with results. He should do well this
season - if he can average 60 to 70% operating time.

M J

Phil R. Holdsworth

Anchorage

Martin Jasper

April 12, 1957

REPORT ON HOBBS ENTERPRISES 1956 SLATE CREEK OPERATION
Mt. Hayes Quadrangle

Enclosed you will find original and one copy of report
on the property and operation noted above.

Also enclosed you will find negatives of pictures ^{taken} during
there during the two trips to the property in July and
August last year.

Underseparate cover the following supporting maps are also
being forwarded:-

3 Prints of Map No. 1
3 " " Map No. 2
3 " " Map No. 2A
3 Prints " Map No. 3

Prints of Maps 1-2-3 are from original tracings of the Slate
Creek Mining Co., dating "way back when".

Prints from Map 2A show the drilled area, drain, etc. For this
purpose a tracing was tracing off of a section of Map No. 2,
and my tracing is also enclosed with above listed prints.

M J

Memo

1/16/37

3 Copies of Glato Co Report
given to Bob Beck date.

1 Copy had complete set of Pix.
1 - lacked 4 or 5 on on last
2 sheets.

1 Copy without Pix

mfj.

1/16/37 Negatives mailed to Small
for 4 Reprints each today for
TDR's a/c.

2 Kodacs for personal A/c
for 12 & 4 reprints.

Jas. A. Williams

68
April 28, 1956

Martin Jasper

Anchorage

HOBBS ENTERPRISES, INC. - MT. HAYES QUAD.

Regarding above:- you are right, as usual, as to location.

Bob Beck and Owen Butcher, of Spenard, have gotten a lease on Slate Creek, a ~~right limit~~ left limit tributary of and the head of Chestochina River. They have or are still taking in dragline, three D-8 and various other equipment to the property. They were a bit late in getting started on the freighting deal - late March and first week of April started hauling the equipment to Chestochina, and hope they made it before break-up started.

Know them both fairly well and they are good men. Have been sub-contracting on dirt moving for number of years. Bob Beck had a lease from J. M. Elmer the last year J. M. was up there, and he reported taking out \$30,000 at lower end, when J. M. wanted to pull "a fast" so Bob pulled out. He has spent 2 years getting the lease from the old Slate Creek Mining Company, New York.

There is about 2 seasons work at lower end of Slate creek Gulch where there is supposed to be about the only ground with good pay left, but it is tuff section with lots of big boulders and 25 foot depth.

They bought some surplus D-8s, the dragline, carry-alls, etc for a song, and being first class mechanics overhauled all it the past winter. Fed up with sub-contracting, and fighting with M-K and the other construction tycoons to get their pay (waited and fought some of them for couple years to collect, and never have been able to shake loose some of pay) they figured they would be better off moving a lot of gravel for a little gold.

Being familiar with the area, they want me to come in and "case" their job, and show them various spots that should be avoided and forgotten. You will recall, that Slate creek is 8 miles (on the hoof) from the Middle Fork which you went in with me to check 2 years ago. Will plan to go in to Slate creek in early June.

Hope Beck and Butcher make a good profit. Keeping their crew down to 5 or 6, including themselves.

They have asked us to refer owners of likely looking ground to them.

From all reports there will be quite a few new outfits trying their hand on placer ventures this year. Wrote your office that Joe Columbo (Airport Machinery) and Minor Rupp (stripping for Jonesville coal outfit) have leased Valdez creek from A. B. Smith and have or will be moving mechanical equipment in there.

Office Memorandum . Territorial Department of Mines

68

To : Martin W. Jasper

Office: Juneau

From : James A. Williams

Date : April 26, 1956

Subject : Hobb Enterprises, Inc., - Mt. Hayes QUD.

We got a letter by mistake which was intended for the Tax Department from Hobb Enterprises, General Delivery, Spenard, Helen Butcher, Secretary. It stated they were going to mine on Slate Creek (I am assuming its the one in Mt. Hayes Quad) and were asking for a mining license. Are you acquainted with this outfit? Anyhow, thought you should know for the record.

JAW:ds



DEPARTMENT OF MINES
RECEIVED

APR 28 1956

ASSAY OFFICE
ANCHORAGE, ALASKA

Ground preparation for paving was calculated in 3 places:

$$\frac{16}{17,600}$$

$$\frac{1130}{1130} \times 12 \times 12 = 16272$$

$$\frac{1130}{1130} \times 1100 \times 12 = 16272$$

8 X 8 = 64' BK Lower end

5 X 8 = 40' Sur.

6 1/2 X 8 = 52

3 | 34

1130

Depth length wide

36' X 120' X 120'

64 X 40 X 40

36 X 150 X 120

6 X 50 X 40 = 12,000

4 X 4 = 16

222

1600

7200

54800

18 65

12 30

30

8 X 8

width length depth

Yards yds yds

Cut - 60 X 120 X 9 = 64,800 cy (vertical limit)

Incline - 50 X 40 X 6 = 12,000 - 18,000 ramp

✓ - 20 X 30 X 6 = 3,600

Drain - 4 X 1130 X 4 = 18,080

98,480 cy

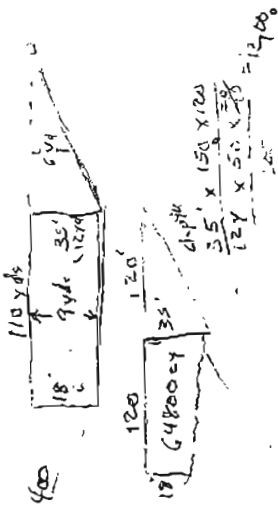
Backfill - estimated 6,000 cy

toils 104,480 cy

Count by loads 110,100

Depth	Length
18	350
35	
<u>20</u>	
7200	990
4800	60
	<u>59400</u>
	17.5

9 yds 110 yds x 60 = 59,400



9 yds 120 x 60 =

64800
12,000
76,800

77,000 CY
18,000
95,000 CY

width drainage ditch
3400' x 12' x 12'
pk 7 x 14
pk
depth = 11' 20 yds x 12'

12/19 - Drain 3400 across 12' & 12' w/ 11'
Cr Joiner 1500 above house around of driveway

1200' across length of ground
to driveway

1130
48
1178
9720
1130
x 16
6780
1130
18,020

Measurements by Carry all
Totalled 110,000 cy

Yardage amount by make
New Cr Joiner = 12 x 4 x 2000 = 97 x 1 1/2 x 66 y =

LEATHER DOPLET
Mechanical
concentrating for water treatment SCREENS

Memo

SLATE AZ - JULY '56 TRIP -

Pix (prints) (and Negs??)

of Roll #2-56 MISSING.

Check Negatives

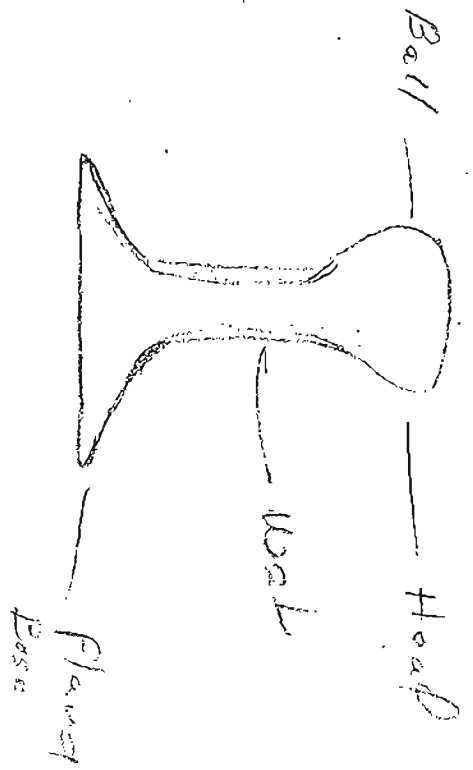
Mining Operations

The ^{mining} "stockline" set-up ~~was~~ is located on ~~bedrock~~ north slope ^{top of gravel} (downstream) or valley, ^{with sluiceline} 100' vertically above, and about 150' ^{from upper end} of stripped area. The double-drum Hyster unit, mounted on D-8 Cat, is located 40' above the dump box, near edge of the bench.*

The 1/2" "stockline" cable ^{passes over a sheave on a log} passes over a 30' "A" frame, and is anchored to an old TD 14 located in creek bed on south side of valley. The bucket line ^{is a 3/4" cable} attached to an automatic "trip" block, from which the 1/2" bucket is suspended. The sluiceline and its location - is same as that used in 1950-51.

It includes 100' of 30" ^{x 30"} steel boxes & 5 wooden boxes @ lower end, set on ^{least} 10' ^{set on bedrock} ~~bedrock~~ (a weathered, crushed, granitic rock type) ^{which is reported to be the bedrock of the} ~~firm~~ ^{at} old channel (?)

Set on bedrock (a weathered, crushed, granitic rock type, which is said to be the bedrock in area ^{prepared} ~~stripped~~ for mining) ^{it was} ~~that~~ ^{cut} was graded down to 10% grade to east to discharge tailings to creek around head of cut until the ^{latter is mined} ~~east cut is taken out~~. This grade is not sufficient. The grade is not sufficient. Sixty pound rails, ^{set @ 4" centers,} are used as longitudinal ripples in 10 ft lengths. The rails are anchored in slotted steel plate "frog", ~~where~~ ^{the} latter resting on a 2" x 6" tie. Every 30' there are 8 (or 10) ft of Noncon type ripples. The ripples are held down by steel (plate) sand board.



+10 '155 Gr = 7.9%
 +20 2791 Gr = 34.5
 +30 5209 Gr = 63.8
8155

8155) 155,000
 8155
 73845
 73845
 73845

8155) 2791.0
 24465
 35450
 32620
 28300

8155) 5209.0
 48930
 31600
 620
 597465
 71350

81559) 00367
 60999
 24465

55330
 48430
 64200

8155) 480,000
 40775
 72250
 63270
 70100
 63200

19,174
 184

5.84 / 9r
 19 400 -150
 15 200 -350 CY
 559 211 250 -300
 1395 150 - 950
 775
 81145

2791 5209
 1059 46881
 25119 36045
 13955 307.31
164.669

17 20
 510

+10 12578
 +20 2791
 +30 5209
8155

17 30
 510

115 96 2760

115 24
 460
 230
 2760
 24
 2784

81559) 155,000
 8559
 69400

8559) 2791.0
 25677
 22230
 17118
 52220

115 141
 24
 424
 424
 232
 2784

1024
 26
 51
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 217
 2784

8091 2090
 8559) 2558
 7515
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115 141
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 217
 2784

17 20
 510