

1915

LOT 90 EXAMINATION.

The examination of Lot 90 was begun 7 P.M. May 11th by Garrison Costar with one Keystone Drill working both day and night shift. I took over the work on May 14th and continued the work as it was started originally.

Three lines of holes were laid out parallel with the west boundary of the Boyle Hydraulic Concession, line "A" 100 feet, line "B" 550 feet and line "C" 800 feet from the Boyle line. Then it was thought advisable to put down a hole in the south west corner of the lot near the slough and the Bonanza road.

Some time about 1909, F. L. Morris put down a line of three holes parallel to and 200 feet downstream from line "A" of the present examination. Holes Nos. 3, 4 and 5 were drilled near the south boundary at some other time of which we have no definite record.

The lot has an area of 22.97 acres or 111164 square yards of which 26655 square yards or 24% is naturally thawed. The extent of the naturally thawed area along the Hunker road was determined by the drilling, while in the north west corner of the lot it was determined by results of barring done by the Canadian Klondike Mining Company in 1913. Only 16444 square yards of the 26655 square yards of naturally thawed ground can be dredged by the Yukon Gold Company since the Canadian Klondike Mining Company's mining rights include the right to dredge the submerged bed of the slough (10211 sq.yds. on Lot 90) and these rights were granted prior to those of the Cold Storage Company. This thawed area lies north of the Hunker road and along the slough on the west end of the claim. The depth to frost on the remaining portion of the lot varies from 3 feet to 12 feet below the surface.

The depth to bedrock varied from 31 feet to 44.5 feet, there being two deep holes, one 40.5 feet and one 44.5 feet. The two deep holes seem to be in pot holes as they are common in this portion of the Klondike valley and I found no conclusive proof of a deep channel. A total depth of 388.2 feet was drilled while the total depth showing pay was 381.1 feet. The difference being drilled to be sure that the drill was through the pay in bedrock in each hole.

Most of the holes showed 2 feet to 5 feet of sand on the surface, then interbedded layers of coarse and fine Klondike wash with sand and clay. There was an occasional layer of big boulders near bedrock. The bedrock is schistose varying from hard to soft and where it is hard and broken up it is mixed with clay or gumbo.

Drilling and thawing were very slow in this ground as the gravel was tight and the boulders made it difficult to drive the steam points and the casing.

When figuring in all drill hole values, excepting Holes 3, 4 and 5, of which we have no positive record, the average value per cubic yard is 26.3 ¢ and an average depth of 34.50 feet. The total area of the lot, probably included in the mining rights, is 100953 square yards.

The total dredgeable yardage is 1160960 cu.yds. and taken at 26.3 ¢ per cu.yd. makes the gold content of the lot \$305330.

If the three holes 3, 4 and 5 are taken into account with the other holes drilled on the frozen area, the average value per cubic yard is 27.5 ¢. I cut down the value of No. 3 to 50 ¢ per cubic yard because all the surrounding holes are very much lower in value and I believe No. 3 is in just a spot of rich pay. The above holes lower the depth to 33.83 feet for the frozen area. It is hardly fair to take this value of 27.5 ¢ per cu. yd. since these holes affect the value of such a very small area and we have no positive record of them.

The summary and tabulations of results are shown on the following pages.

Her Parmelee

SUMMARY - LOT 90.

<u>Total Area of Lot 90.</u>	<u>Total Area Included in Mining Rights.</u>	<u>Thawed Area (Dredgeable)</u>	<u>Frozen Area (Dredgeable)</u>
111164 Sq.Yds.	100953 Sq.Yds.	16444 Sq.Yds.	84509 Sq.Yds.

	Sq. Yds.	Depth	Cu. Yds.	Value per Cu.Yd.	Total Value
Frozen	84509	34.24'	971854	26.3 ¢	\$255595
Thawed	16444	31.90'	189106	26.3	49735
Totals	100953		1160960	26.3	305330

DRILL HOLES - LOT 90.

1915 EXAMINATION.

Report No.	Map No.	Total Depth	Depth of Pay	value. Cu.Yd.
1	107 -	31.0'	31.0'	64.9 /
2	108 -	34.0	32.5	12.5
3	109 -	32.5	31.5	39.5
4	105 -	40.5	40.5	Trace
5	106 -	35.0	34.3	8.3
6	107-A -	33.5	33.0	36.2
7	101 -	45.3	44.5	19.7
8	102 -	33.5	33.0	27.5
9	104 -	29.0	29.0	21.9
10	103 -	35.3	35.2	10.9
19	100 -	38.6	36.6	43.2
TOTALS		388.2	381.1	

DRILL PROSPECTING REPORT

Lot 90 1915 Drill

Examination

Date Started 7:00 P.M. 5/11/15

Date Completed 6:00 A.M. 5/13/15

No. Report....1.....Hole No.....1.....for Drill No.....3.....Map No...107.....

Location of hole....Near south west corner of Slaughterhouse lot - known as
.....Lot 90.....

Water Level Feet

Depth of Bedrock 28½ Feet Total Depth 31 Feet

Character of Bedrock Schist and clay.

Frost Thawed (?)

Calculated Volume Hole....353 Cubic Yds. { Measured Volume.....407.....Cu. Yds.

Wt. Gold in Mgs...446 Value Cents...22.9 { Cal. Vol. Discounting Muck.....Cu. Yds.

Value per Cubic Yard by Calculated Volume 64.9

Value per Cubic Yard by Measured Volume

CHARACTER FORMATION: Solid ground - 3' muck.

From	Surface	to	3'	- Muck
"	3'	"	23½'	- Medium to coarse brown and gray gravel.
"	23½'	"	26'	- Coarse gravel and red sediment.
"	26'	"	28¾'	- Fine gravel and sand.
"	28¾'	"	31'	- Bedrock.

Delay 5 hours, caused by fitting up drill.

1/2	"	"	"	moving
2	"	"	"	thawing.

10¼ hours drilling, - 2¼ hours pulling casing.

REMARKS: The ground here was found to be so hard and solidly packed that it was difficult to tell whether it was frozen or thawed. The driller on day shift, Caux, has had more experience in drilling in this kind of ground and he declares the ground to be thawed. This ground was barred some time ago by the Canadian Klondike Co. and the information on their bar hole stakes indicates the ground to be frozen.

(Signed)

G. COSTAR.

DRILL PROSPECTING REPORT

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Lot 90 1915 Drill

Examination

Date Started 7:00 A.M. 5/13

Date Completed 3:00 P.M. 5/14

No. Report....2.....Hole No.....2.....for Drill No.....3.....Map No....108.....

Location of hole...300 ft. from D.H. 107 toward Klondike and 150' to L.L. of
....Klondike River base line.....

Water Level Feet

Depth of Bedrock 31.5 Feet Total Depth 32.5 Feet

Character of Bedrock Blue schist - soft.

Frost at 13'

Calculated Volume Hole .3705 Cubic Yds. { Measured Volume.....444.....Cu. Yds.

Wt. Gold in Mgs. .90....Value Cents..4.63 { Cal. Vol. Discounting Muck.....Cu. Yds.

Value per Cubic Yard by Calculated Volume 12.5

Value per Cubic Yard by Measured Volume

CHARACTER FORMATION:

From	0	to	17'	- Coarse brown gravel and sand.
"	17'	"	28½'	- Gravel and sand.
"	28½'	"	31½'	- " " clay.
"	31½'	"	32½'	- Bedrock.
"		"		

Delay 1½ hours, caused by thawing.

1½ " " " pulling.

" " "

REMARKS:

This ground is very hard and tight, the measured volume of the hole is .073 cu.yd. greater than calculated volume. The depth to frost checks very closely with that determined by C. K. M. Co. bar holes. One large color found on B. R. others are fine and found in lower gravel.

(Signed)

H. W. PARMELEE.

DRILL PROSPECTING REPORT

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Lot 90 1915 Drill

Examination

Date Started May 14, 3 P.M.

Date Completed " 15, 10 A.M.

No. Report...3.....Hole No.....3.....for Drill No.....3.....Map No....109.....

Location of hole.....On edge of slough near Hunker Bridge...just inside of...
.....fence.....

Water Level Feet

Depth of Bedrock 30 Feet Total Depth 31.5 Feet

Character of Bedrock Soft brown schist.

Frost Thawed to B. R.

Calculated Volume Hole.....359 Cubic Yds. { Measured Volume.....296.....Cu. Yds.

Wt. Gold in Mgs..276..Value Cents.14.19 { Cal. Vol. Discounting Muck.....Cu. Yds.

Value per Cubic Yard by Calculated Volume 39.5

Value per Cubic Yard by Measured Volume

CHARACTER FORMATION:

From	0	to	6½ - Brown gravel and sand.
"	6½	"	30½ - Gravel, sand, some clay.
"	30½	"	31½ - Bedrock.
"		"	
"		"	

Delay 3 hours, caused by pulling.

" " "

" " "

REMARKS: This hole was thawed to B. R. and drilled very easily. Most of the gold was coarse, four number 1 color being found on B. R.

(Signed)

H. W. PARMELEE.

DRILL PROSPECTING REPORT

Lot 90 1915 Drill

Examination

Date Started May 16, 10 A.M.

Date Completed " 17, 9:30 A.M.

No. Report....4....Hole No.....4.....for Drill No....3.....Map No....105.....

Location of hole....200 ft. from Hunker road and 550 feet down stream from
.....west boundary Boyle Conc.....

Water Level Feet

Depth of Bedrock 39.5 Feet Total Depth 40.5 Feet

Character of Bedrock Blue quartz, sand and schist.

Frost 5' frost - 4' thaw - then frost to B. R.

Calculated Volume Hole..462...Cubic Yds. { Measured Volume.....593.....Cu. Yds.

Wt. Gold in Mgs. trace Value Cents....- { Cal. Vol. Discounting Muck.....Cu. Yds.

Value per Cubic Yard by Calculated Volume trace

Value per Cubic Yard by Measured Volume

CHARACTER FORMATION:

From	0	to	13½ - Brown sand.
"	13½	"	18 - Fine gravel and sand.
"	18	"	23 - " " - little clay.
"	23	"	36½ - Coarse gravel.
"	36½	"	38½ - Fine "
	38½		39½ - Quartz sand.
	39½		40.5 Bedrock.
Delay	1½	hours, caused by	Bit stuck
	1	" " "	Splicing rope.
	4½	" " "	Pulling.

REMARKS: This hole is probably in a pot-hole. Very few fine colors in gravel but nothing on B. R.

(Signed)

H. W. PAFMELEE.

DRILL PROSPECTING REPORT

9

Lot 90 1915 Drill

Examination

Date Started May 17, 9:30 A.M.

Date Completed " 18, 5:30 P.M.

No. Report...5...Hole No....5...for Drill No.....3...Map No.....106...

Location of hole...550 ft. below west boundary of Boyle Conc. and 300' to
.....L.L. of River base line.....

Water Level Feet

Depth of Bedrock 32.5 Feet Total Depth 34.3 Feet

Character of Bedrock Hard blue schist - some clay above bedrock.

Frost at 9 ft.

Calculated Volume Hole...391 Cubic Yds. { Measured Volume.....370.....Cu. Yds.

Wt. Gold in Mgs. 63 Value Cents..3.24 { Cal. Vol. Discounting Muck.....Cu. Yds.

Value per Cubic Yard by Calculated Volume 8.3

Value per Cubic Yard by Measured Volume

CHARACTER FORMATION:

From	0	to	5	- Fine gravel and sand.
"	5	"	15½	- Gravel.
"	15½	"	19	- Fine gravel and sand.
"	19	"	30	- Coarse " " "
"	30	"	32½	- " " " clay.
"	32½	"	34½	- Blue schist, bedrock.

Delay 3 hours, caused by thawing.

1 " " " pulling.

" " "

REMARKS:

Most of the gold was very fine and was in gravel from 30 feet in depth to bedrock, - very little on bedrock.

(Signed)

H. W. PARMELEE.

DRILL PROSPECTING REPORT

10

Lot 90 1915 Drill

Examination

Date Started May 18, 5:30 P.M.

Date Completed " 20, 7:30 A.M.

No. Report...6.....Hole No.....6.....for Drill No.....3.....Map No...107-A....

Location of hole...S. W. corner of Lot 90 about 15' from fence.....

Water Level Feet

Depth of Bedrock 30.0 Feet Total Depth 33.0 Feet

Character of Bedrock Broken up schist - with some clay.

Frost at 18' - Bedrock thawed.

Calculated Volume Hole...376...Cubic Yds. { Measured Volume....390.....Cu. Yds.

Wt. Gold in Mgs...265...Value Cents...13.62 { Cal. Vol. Discounting Muck.....Cu. Yds.

Value per Cubic Yard by Calculated Volume 36.2

Value per Cubic Yard by Measured Volume

CHARACTER FORMATION:

From	0	to	3	- Muck.
"	3	"	22½	- Medium gravel and sand.
"	22½	"	29	- Coarse gravel and sand - little clay.
"	29	"	30.1	Boulders
"	30.1	"	33	- Bedrock.

Delay	5	hours, caused by	thawing.
	3	" " "	pulling.
	1	" " "	repairing engine.

REMARKS: I thought this hole would be thawed as it is near the slough that runs back of the assay office, and about 50' upstream from the hole is a bar hole by C. K. M. Co. that says "20' - no frost".

(Signed) H. W. PARMELEE.

DRILL PROSPECTING REPORT

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Lot 90 1915 Drill

Examination

Date Started May 21, 3:45 A.M.

Date Completed " 23, 2:15 P.M.

No. Report....7.....Hole No....7.....for Drill No.....3.....Map No....101.....

Location of hole....About 100' downstream from west boundary of Concession

.....300' to L., L. of B. L.

Water Level 4.25 Feet

Depth of Bedrock 43.0 Feet Total Depth 44.5 Feet

Character of Bedrock Black schist - with some blue clay.

Frost from 2' to 6' - 6' to 11' thawed 11' - B.R. frozen.

Calculated Volume Hole .507 Cubic Yds. { Measured Volume.....797.....Cu. Yds.

Wt. Gold in Mgs. 195 Value Cents 10.0 { Cal. Vol. Discounting Muck.....Cu. Yds.

Value per Cubic Yard by Calculated Volume 19.7

Value per Cubic Yard by Measured Volume

CHARACTER FORMATION:

From	0	to	19'	- Coarse gravel and sand.
"	19'	"	20.5	- Boulders
"	20.5	"	22.0	- Coarse gravel " "
"	22.0	"	23.0	- Boulders
"	23.0	"	34	- Coarse gravel and clay, some sand.
	34	"	38	- Medium gravel, tight.
	38	"	43	- coarse gravel - some clay.
	43	"	44.5	- Black schist and blue clay.
Delay	5 1/4	hours, caused by		Thawing.
	3/4	" " "		Repairing engine.
	1/2	" " "		" pump.
	2 1/4			Pulling.

REMARKS: This hole reached a depth of 18.5 feet May 20th, big boulders broke the drive shoe so they pulled the casing and moved ahead 6 feet. All gold was very fine and found in upper gravel - few fine colors on Bedrock.

(Signed) H. W. PARMELEE.

DRILL PROSPECTING REPORT

12

Lot 90 1915 Drill

Examination

Date Started May 23, 2:15 P.M.

Date Completed " 25, 2:45 P.M.

No. Report....8.....Hole No.....8.....for Drill No.....3.....Map No.....102....

Location of hole.....200' inside of fence from Hunker Road and 100' west of
.....west boundary of Boyle Conc.....

Water Level Feet

Depth of Bedrock 31.0 Feet Total Depth 33.0 Feet

Character of Bedrock Broken up schist.

Frost at 2'

Calculated Volume Hole...376...Cubic Yds. { Measured Volume.....48.....Cu. Yds.

Wt. Gold in Mgs...194...Value Cents...9.97 { Cal. Vol. Discounting Muck.....Cu. Yds.

Value per Cubic Yard by Calculated Volume 27.5

Value per Cubic Yard by Measured Volume

CHARACTER FORMATION:

From	0	to	9	- Coarse gravel and sand.
"	9	"	12.5	Fine gravel.
"	12½	"	17	- Medium " and very tight.
"	17	"	26	- Coarse "
"	26	"	29	- Medium "
	29	"	31	- Boulders and gravel.
	31	"	33	- Bedrock.
Delay	7¾	hours, caused by	thawing.	
	1½	" " "	pulling pipe and putting on new shoe.	
	1¼	" " "	" "	

REMARKS: The gravel in this hole was exceptionally tight and it was hard to get the point down for thawing.

(Signed)

H. W. PARMELEE.

DRILL PROSPECTING REPORT

13

Lot 90 1915 Drill

Examination

Date Started May 26, 4:30 A.M

Date Completed " 26, 7:45 P.M

No. Report...9.....Hole No....9.....for Drill No....3.....Map No....104.....

Location of hole...Lot 90 - 100' from north boundary and a little down
.....stream from Shaw's cabin.....

Water Level 4.2 Feet

Depth of Bedrock 27.5 Feet Total Depth 29.0 Feet

Character of Bedrock Broken up schist with some clay.

Frost Thawed, - struck 3 ft. of seasonal frost on surface

Calculated Volume Hole...331...Cubic Yds. { Measured Volume.....296.....Cu. Yds.

Wt. Gold in Mgs...141...Value Cents...7.25 { Cal. Vol. Discounting Muck.....Cu. Yds.

Value per Cubic Yard by Calculated Volume 21.9

Value per Cubic Yard by Measured Volume

CHARACTER FORMATION:

From	0	to	11.5 - Coarse brown gravel and sand.
"	11.5	"	22 - Medium gravel, very tight.
"	22	"	24 - Coarse gravel.
"	24	"	27.5 - Fine gravel and clay
"	27.5	"	29 - Bedrock.

Delay 1½ hours, caused by pulling casing.

" " "

" " "

REMARKS: A drive shoe split and casing had to be pulled and hole started again. Hole was first started 3 P.M. May 25.

(Signed) H. W. PARMELEE.

DRILL PROSPECTING REPORT

Lot 90 1915 Drill

Examination

Date Started May 26, 7:45 P.M.

Date Completed " 27, 11:45 P.M.

No. Report... 10... Hole No.... 10... for Drill No.... 3... Map No.... 103...
 Location of hole... Edge of slough and back of little cabin just below...
 Scott's cabin.

Water Level 6.0 Feet

Depth of Bedrock 33.0 Feet

Total Depth 35.2 Feet

Character of Bedrock A yellow gumbo.

Frost Thawed except 2 ft. surface frost.

Calculated Volume Hole... 401 Cubic Yds. { Measured Volume... 315... Cu. Yds.

Wt. Gold in Mgs... 85... Value Cents... 4.38 { Cal. Vol. Discounting Muck... Cu. Yds.

Value per Cubic Yard by Calculated Volume 10.9

Value per Cubic Yard by Measured Volume

CHARACTER FORMATION:

From	0	to	24	- Coarse brown gravel - sand and clay.
"	24	"	25	- " sand.
"	25	"	29	- Medium gravel and clay.
"	29	"	33	- Coarse gravel.
"	33	"	35.2	Bedrock.

Delay 1 1/2 hours, caused by pulling.

1/2 " " " thawing.

2 " " " new brass on cross-head.

REMARKS:

(Signed)

H. W. PARMELEE.

DRILL PROSPECTING REPORT

15

Lot 90 1915 Drill

Examination

Date Started June 4, 3:45 P.M.

Date Completed " 6, 6:00 A.M.

No. Report.....19...Hole No.....19.....for Drill No.....3.....Map No.....100.....

Location of hole...South east corner of Lot 90, 100 ft. from Bonanza road..
.....and 100 feet from west boundary of Boyle Concession.....

Water Level Feet

Depth of Bedrock 36.0 Feet Total Depth 36.6 Feet

Character of Bedrock Soft black schist and gumbo.

Frost at 7 feet frozen to Bedrock.

Calculated Volume Hole...417. Cubic Yds. { Measured Volume.....555.....Cu. Yds.

Wt. Gold in Mgs. 350... Value Cents.. 18.0 { Cal. Vol. Discounting Muck.....Cu. Yds.

Value per Cubic Yard by Calculated Volume 43.2

Value per Cubic Yard by Measured Volume

CHARACTER FORMATION:

From	0	to	19.5 - Coarse gravel and clay.
"	19.5	"	25 - Fine " " "
"	25	"	34.7 - Coarse " " sand.
"	34.7	"	36.0 - Bedrock.
"		"	

Delay 5 $\frac{3}{4}$ hours, caused by moving.1 $\frac{3}{4}$ " " " pulling.

" " "

REMARKS: Two coarse colors were found on bedrock, remainder of gold was fine and found in lower gravel.

(Signed)

H. W. PARMELEE.



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RG _____ MG 28 R- _____ SERIES/SÉRIE III-43
ACCESSION _____ VOL 57 PAGE(S) 15
BOX/BOÎTE _____ REEL/BOBINE _____
FILE/DOSSIER 30 Boyle Concession - Letters, memos, assignments, examinations 1915
DATE February 2016