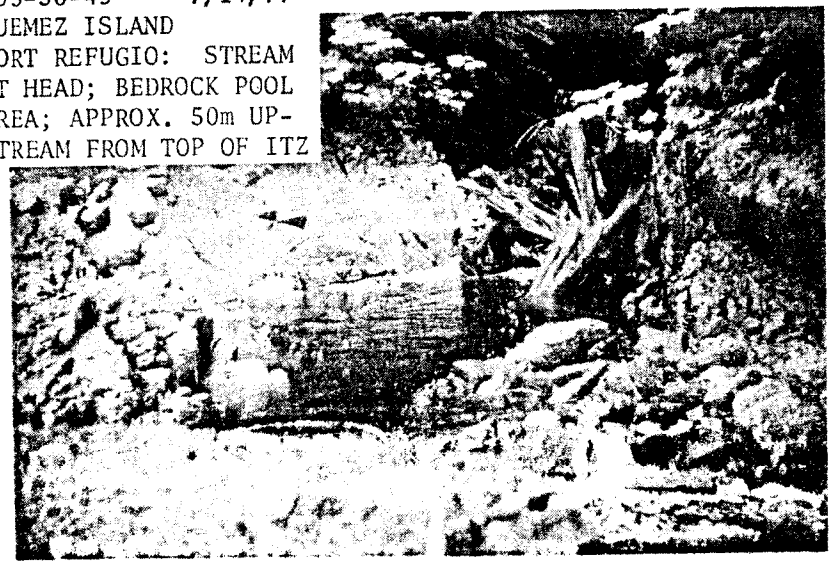
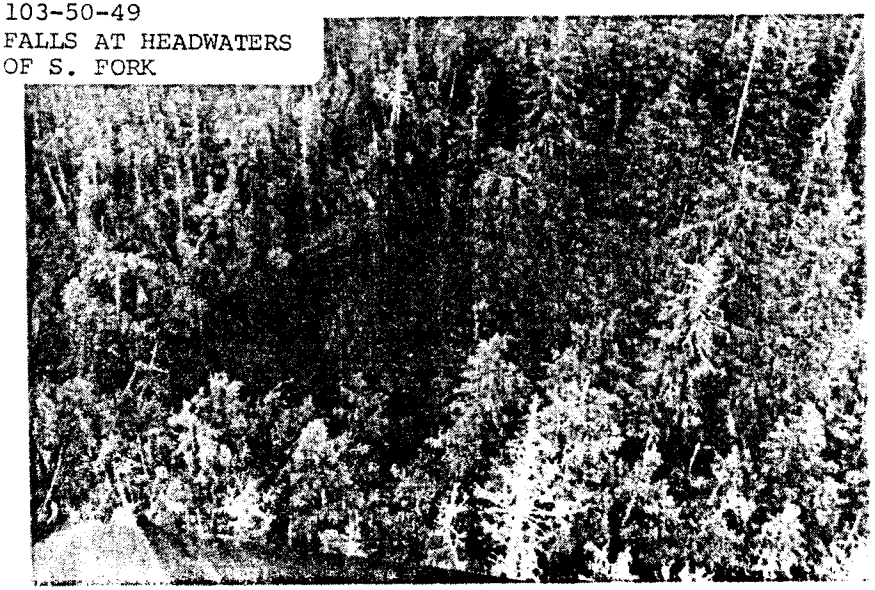
103-50-49 7/14/77
SUEMEZ ISLAND
PORT REFUGIO: STREAM AT HEAD; LOG JAM; TOP OF ITZ

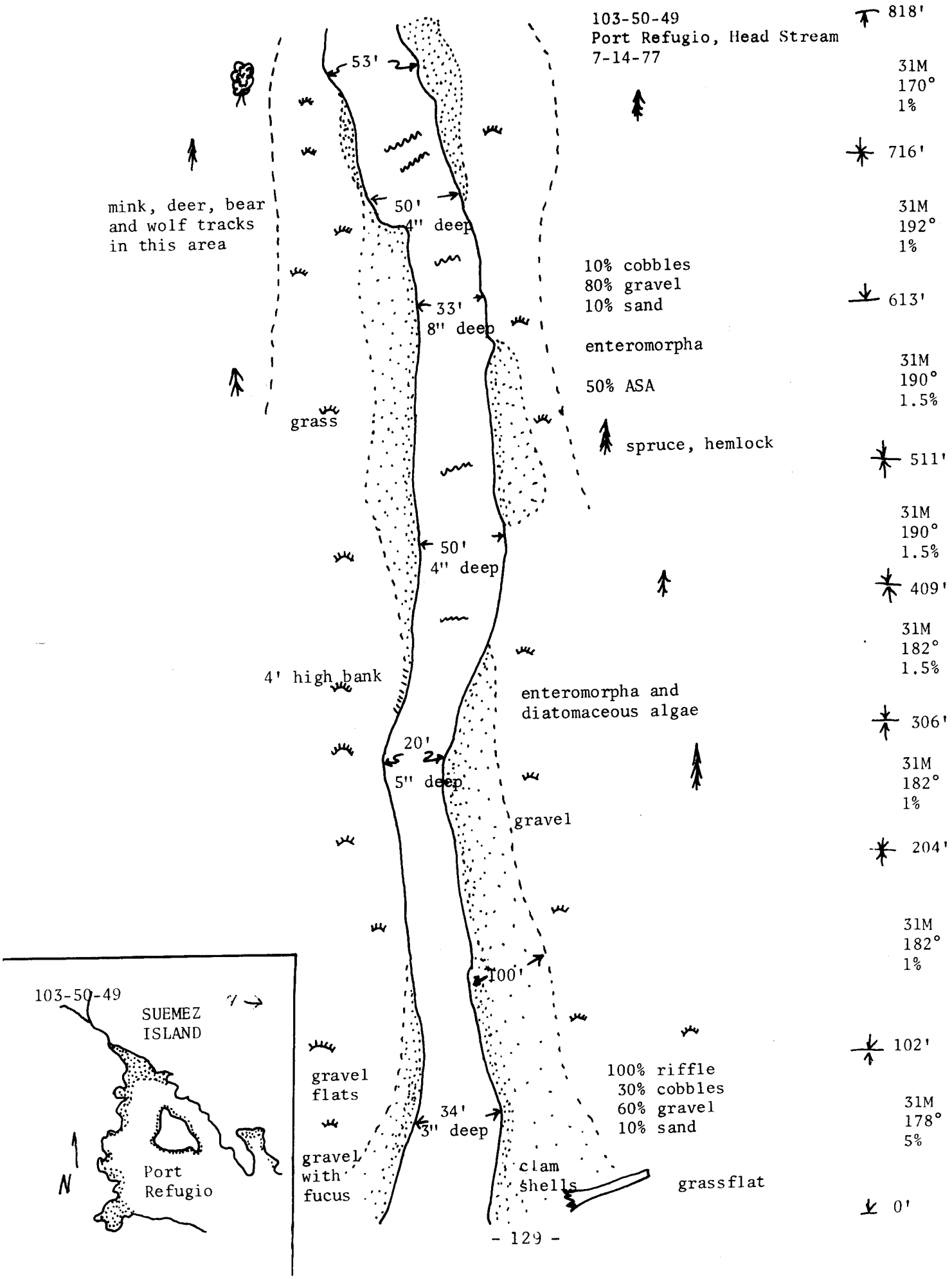
103-50-49 7/14/77
SUEMEZ ISLAND
PORT REFUGIO: HEAD STREAM RIFFLE SECTION 200 m ABOVE TOP OF ITZ

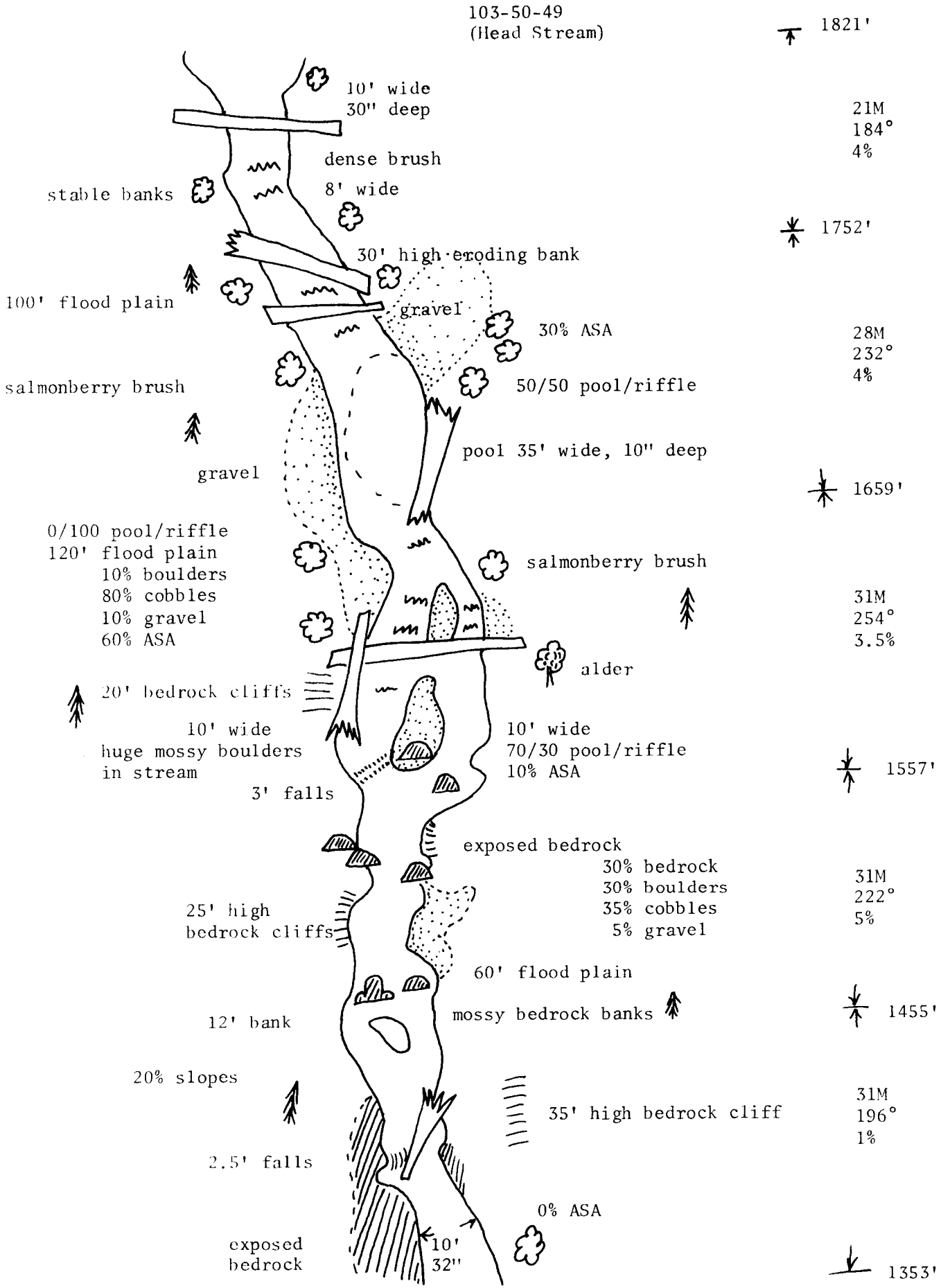
103-50-49 7/14/77
SUEMEZ ISLAND
PORT REFUGIO: STREAM AT HEAD; BEDROCK POOL AREA; APPROX. 50m UP-STREAM FROM TOP OF ITZ



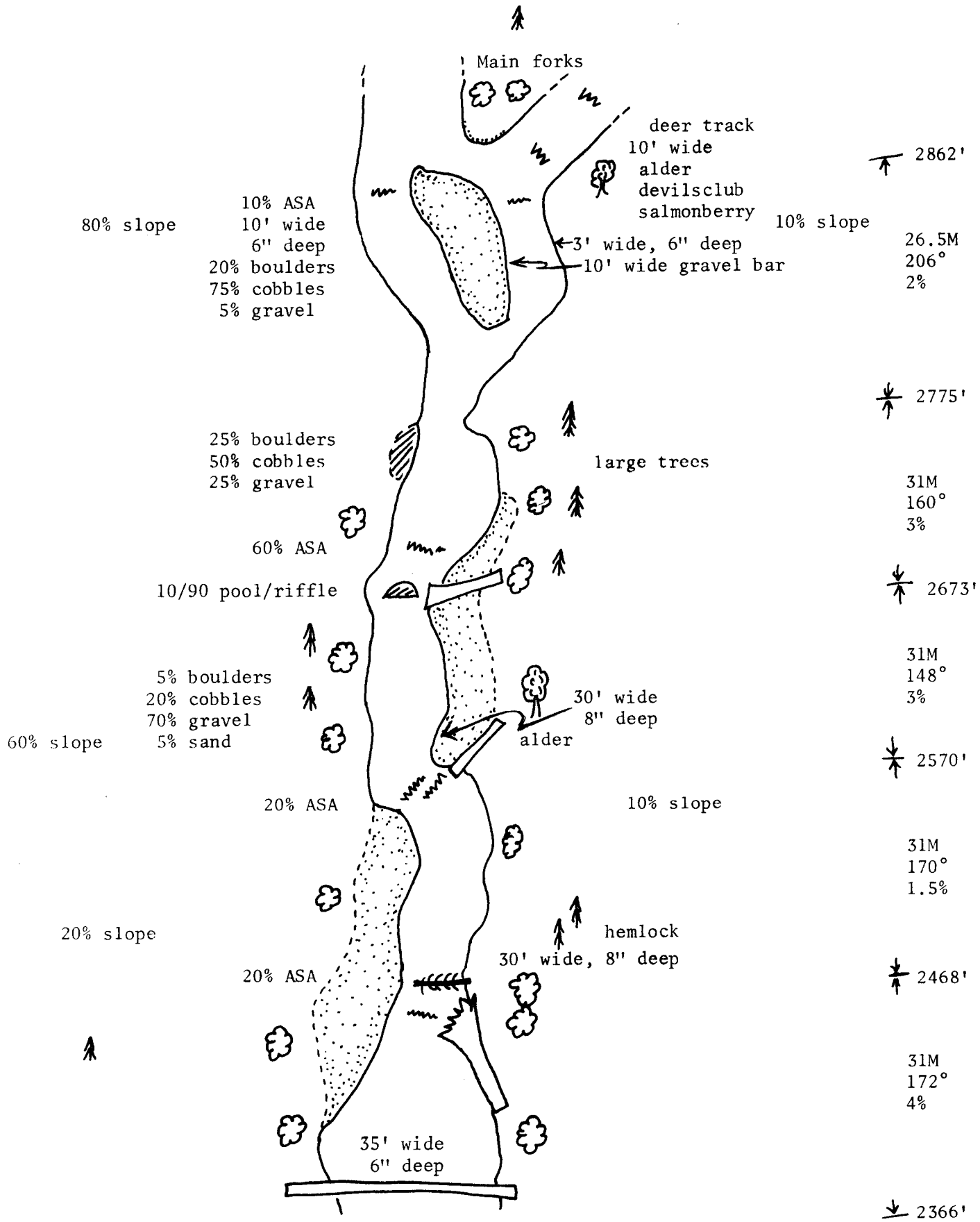
103-50-49
FALLS AT HEADWATERS OF S. FORK

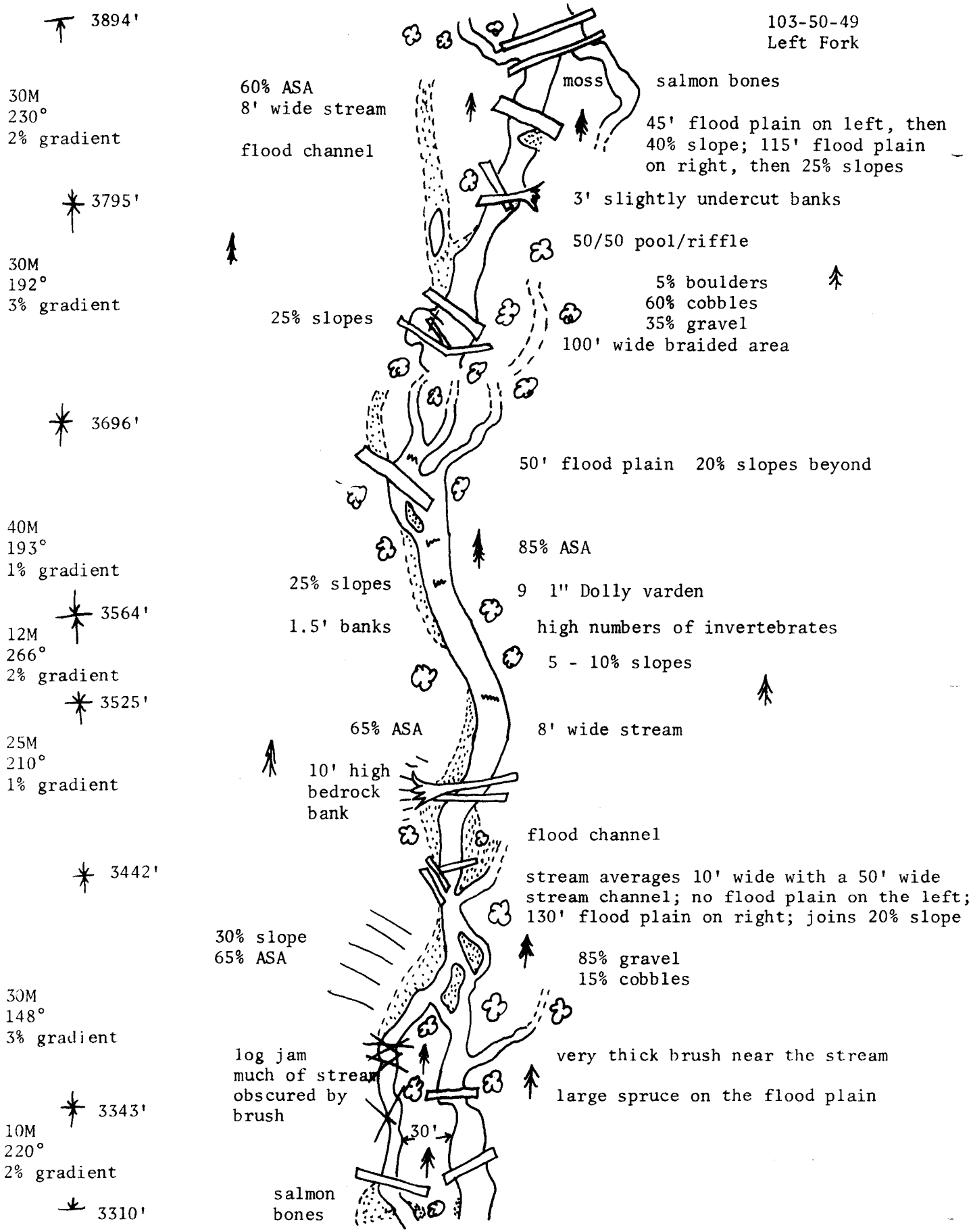



103-50-49
Port Refugio, Head Stream
7-14-77
818'
31M
170°
1%
716'
31M
192°
1%
613'
31M
190°
1.5%
511'
31M
190°
1.5%
409'
31M
182°
1.5%
306'
31M
182°
1%
204'
31M
182°
1%
102'
31M
178°
5%
0'
53'
50'
4" deep
33'
8" deep
50'
4" deep
20'
5" deep
34'
3" deep
100'
mink, deer, bear
and wolf tracks
in this area
grass
10% cobbles
80% gravel
10% sand
enteromorpha
50% ASA
spruce, hemlock
4' high bank
enteromorpha and
diatomaceous algae
gravel
gravel
flats
gravel
with
fucus
100% riffle
30% cobbles
60% gravel
10% sand
clam
shells
grassflat
103-50-49
SUEMEZ
ISLAND
Port
Refugio
N


103-50-49
(Head Stream)
1821'
10' wide
30" deep
21M
184°
4%
dense brush
8' wide
stable banks
1752'
30' high eroding bank
100' flood plain
gravel
30% ASA
28M
232°
4%
salmonberry brush
50/50 pool/riffle
pool 35' wide, 10" deep
gravel
1659'
0/100 pool/riffle
120' flood plain
10% boulders
80% cobbles
10% gravel
60% ASA
salmonberry brush
31M
254°
3.5%
alder
20' bedrock cliffs
10' wide
huge mossy boulders
in stream
10' wide
70/30 pool/riffle
10% ASA
1557'
3' falls
exposed bedrock
30% bedrock
30% boulders
35% cobbles
5% gravel
31M
222°
5%
25' high
bedrock cliffs
60' flood plain
mossy bedrock banks
1455'
12' bank
20% slopes
31M
196°
1%
35' high bedrock cliff
2.5' falls
0% ASA
exposed
bedrock
10'
32"
1353'

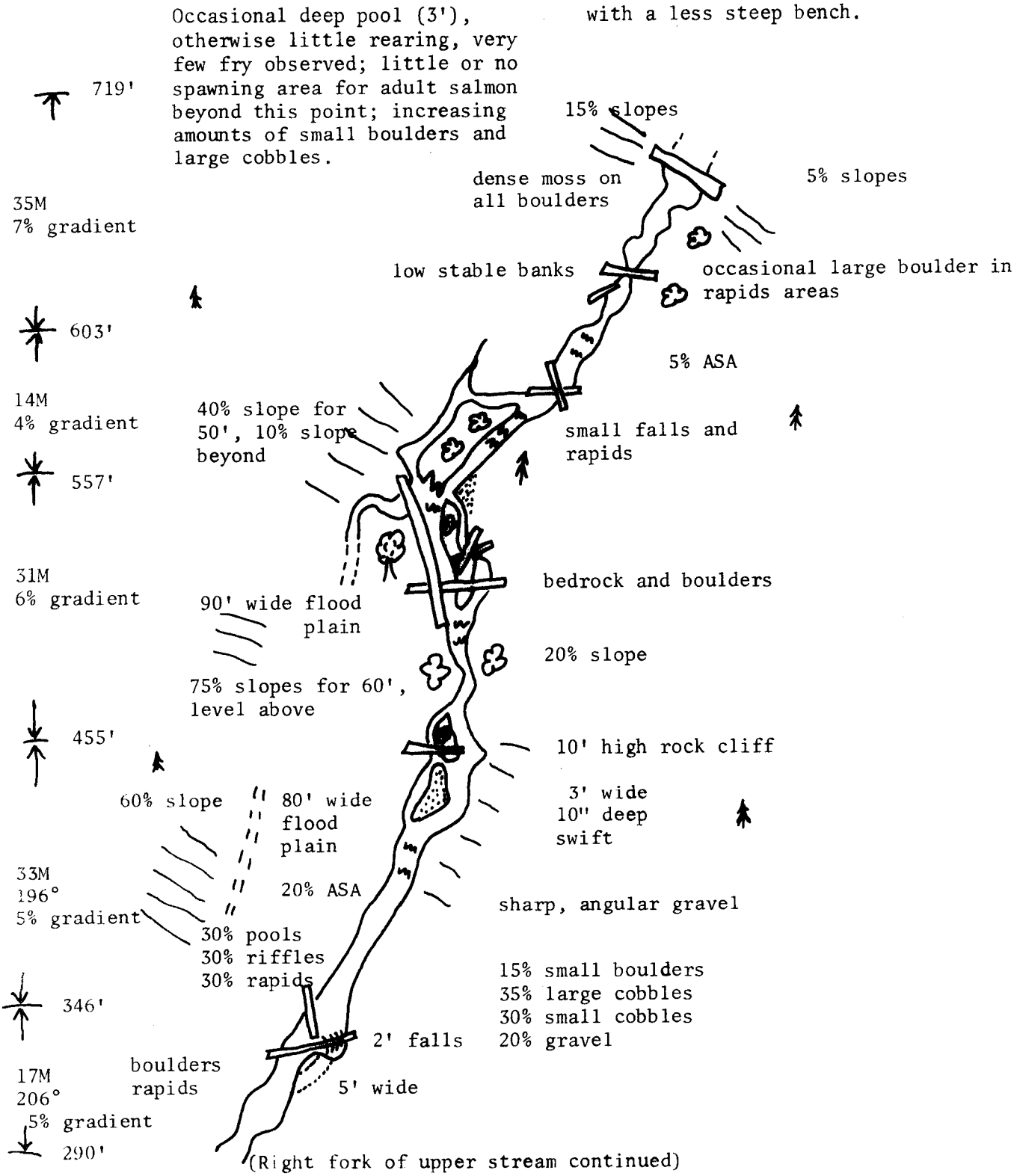
103-50-49
(Head Stream)




103-50-49
Left Fork
3894'
30M
230°
2% gradient
60% ASA
8' wide stream
flood channel
moss
salmon bones
45' flood plain on left, then
40% slope; 115' flood plain
on right, then 25% slopes
3795'
3' slightly undercut banks
50/50 pool/riffle
30M
192°
3% gradient
5% boulders
60% cobbles
35% gravel
25% slopes
100' wide braided area
3696'
50' flood plain 20% slopes beyond
40M
193°
1% gradient
85% ASA
25% slopes
9 1" Dolly varden
3564'
1.5' banks
high numbers of invertebrates
12M
266°
2% gradient
5 - 10% slopes
3525'
65% ASA
8' wide stream
25M
210°
1% gradient
10' high
bedrock
bank
flood channel
3442'
stream averages 10' wide with a 50' wide
stream channel; no flood plain on the left;
130' flood plain on right; joins 20% slope
30% slope
65% ASA
85% gravel
15% cobbles
30M
148°
3% gradient
log jam
much of stream
obscured by
brush
very thick brush near the stream
large spruce on the flood plain
3343'
30'
10M
220°
2% gradient
salmon
bones
3310'

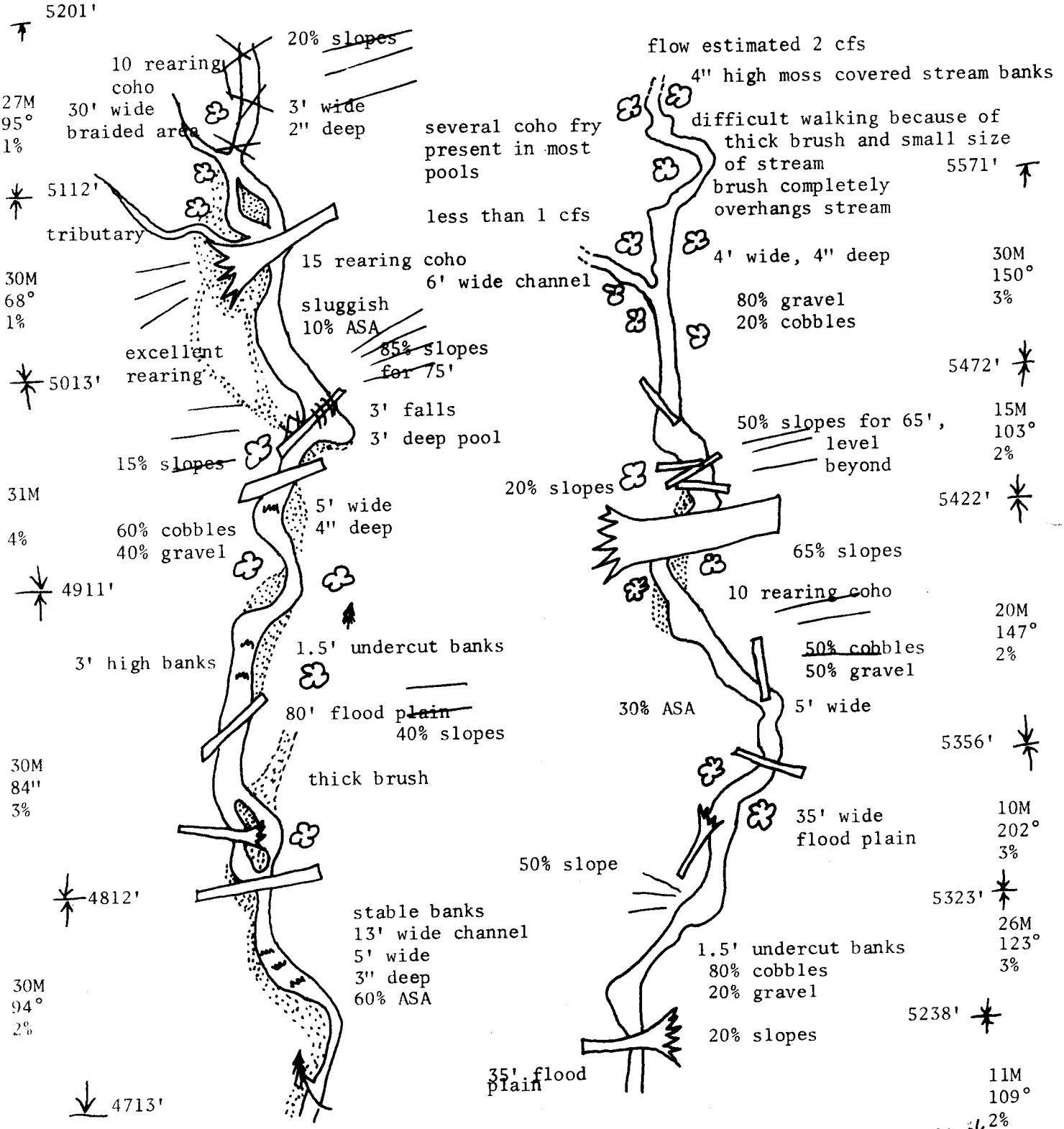
103-50-49
Left Fork

The gradient of the stream increases gradually from average 4 - 5% to 6 - 7%. The flood plain becomes less and disappears. Side slopes increase to about 100% for 70' before joining with a less steep bench.



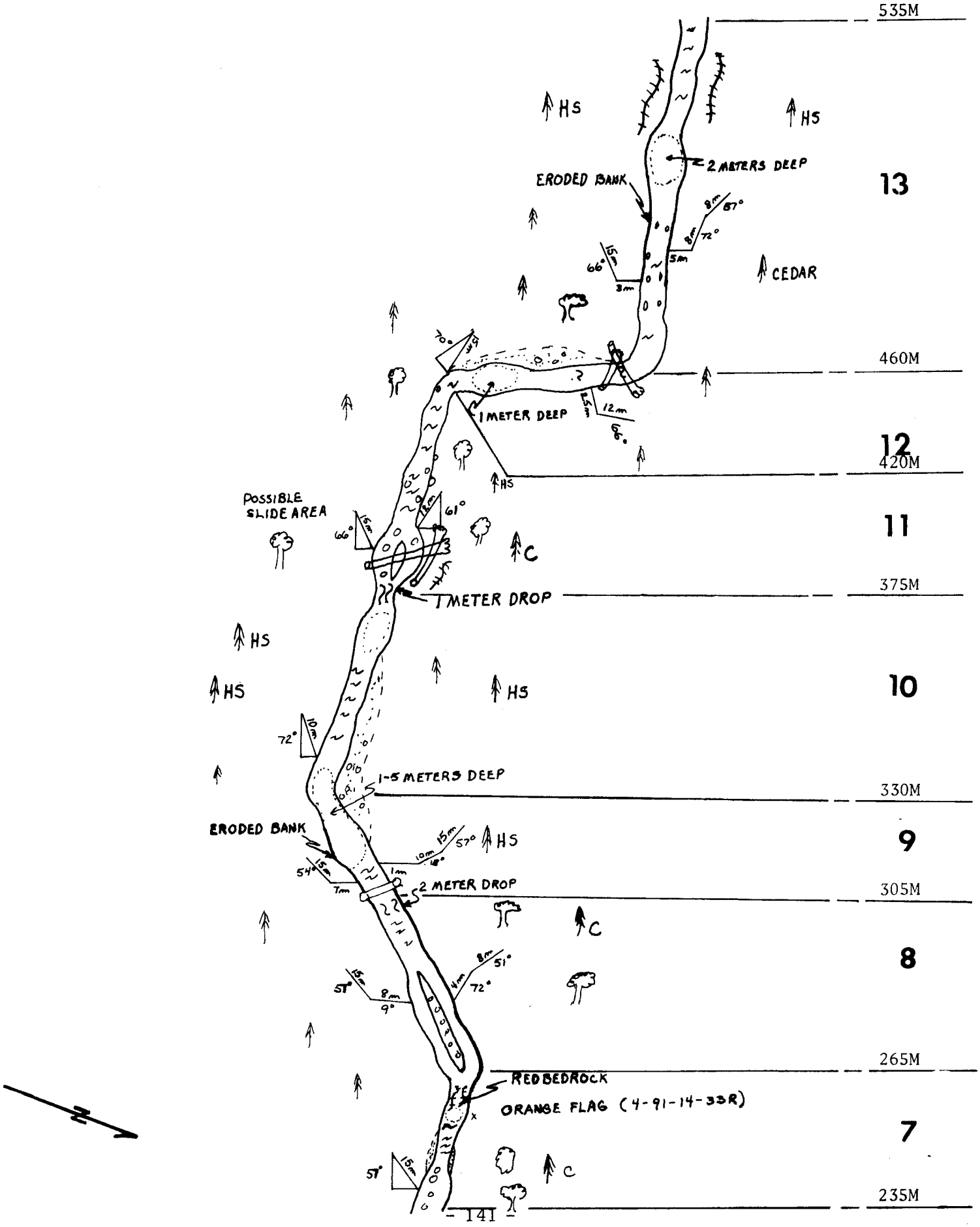
103-50-49
Left Fork

Stream bottom averages 65' wide with numerous flood channels; flood plain densely covered with currants, salmonberry brush and devilsclub; brush completely overhangs stream for much of its length; side slopes are steep (50%) for approx. 50' high bordering stream, less steep above



(Left fork of upper stream continued)

103-50-49
Fork 1/2 mi up on right



SECTION NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
LENGTH	15M	35M	10M	50M	65M	60M	30M	40M	25M	45M	45M	40M	75M	75M	40M	20M	
AV. WIDTH	3M	5M	15M	6M	4M	4M	4M	4M	5M	4M	4M	4M	5M	7M	5M	-	
ASA %	10	20	0	10	0	15	15	30	10	5	0	0	-	10	0	-	
ASA METERS^2																	
STREAM GRADIENT	2.5°	2°	7°	4.5°	7°	4.5°	3.5°	4.5°	6°	8°	4.5°	4.5°	5°	4.5°	3.5°	-	
UPSTREAM MAGNETIC HEADING	232°	286°	306°	254°	246°	264°	264°	226°	218°	268°	265°	334°	258°	270°	266°	-	
% BEDROCK	0	0	0	0	60	60	50	40	20	65	20	30	20	20	70	-	
% BOULDERS	50	50	60	70	30	20	15	20	30	15	60	40	40	30	20	-	
% COBBLES	30	30	30	30	10	10	15	20	20	10	15	30	25	40	5	-	
% GRAVEL	20	20	10	0	0	10	20	20	30	10	5	0	15	10	5	-	
% SAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	
% FINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	
POOL/RIFFLE RATIO (P/R)	30:70	40:60	30:70	30:70	70:30	80:20	60:40	50:50	70:30	80:20	80:20	70:30	50:50	50:50	80:20	-	
SLOPE OF UPPER RT.BANK (ORIENTATION UPSTREAM)	2.5°	9°	-	72°	57°	-	-	72°	18°	-	61°	0°	0°	61°	0°	57°	
SLOPE OF UPPER LEFT BANK	-	9°	-	9°	61°	57°	57°	9°	54°	72°	66°	70°	0°	57°	66°	57°	
INVERTIBRATE CONCENTRATION	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	-	
DISTANCE FROM BEGINNING OF SURVEY TO END OF SECTION	15M	50M	60M	110M	175M	235M	265M	305M	330M	375M	420M	460M	535M	610M	650M	670M	

STREAM NUMBER: 103-50-49

COMMENTS: Fork 1/2 mi up on right

PEAK ESCAPEMENT RECORD

103-50-49 Port Refugio

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
9/27/42	42,000	6,000		
10/8/45	90,000	6,000		25,000 at mouth
10/16/46	20,000	1,500	500 coho	
10/9/47	10,000	5,000		
10/20/48	10,000	2,000		