

006151

		320 LX Pacific Rampool	
		X 7201	
0-57	0-B		
57-58(?)	Diorite (= chloritic greenschist)		
	not foliated. Possible float		
58-64 1/2	GRAPHIC PHYLLITE BLACK		
	SOFT WITH PUNKY ZONES, SANDY ZONES TO 1/4" S ₂		
	@ 62-63, 64-64 1/2		
	SOME SECTIONS LOOK LIKE COAL		
	S ₂ 60° from horiz @ 61'		
	weakly developed		
	Py 2-3% disseminated		
	fract controlled		
64 1/2-66	Porph chloritic tuff,		
	No S ₂		
66-71	Porph chl. tuff soft, punky		
	probably sheared. Shear is vertical dip. w/ to axis of core		
71-77	chloritic andesitic tuff		
	foliation - 80° from horiz		
	@ 76'		
	P ₃ ~ 1%		
177-84 1/2	GRAPH. PHYLLITE, DK GY-BK		
	HIGHLY FISSILE. FRAGS LOOK LIKE DRILL CUTTINGS.		
	Py 1%		

		320 LX Pacific Rampool	
84 1/2-155	BANDED DE GR CHL TUFFS		
	& BLACK GRAPH PHYLLITE		
	Py 2-3% MAINLY FRACT CONTROL		
100-112	~ 2' CORE BLACK PUNKY		
	GRAPH PHYLL		
112-120	~ 1' CORE - MAINLY TUFF		
123-124	PUNKY TUFF & PHYLL		
124-125	GRAPH PHYLL PUNKY		
	S ₁ (?) color banding & foliation		
	60° dip		
125-128	Gy chl phyll w/ 10%		
	Bio phyll.		
128-136	~ 0.8' CORE GRAPH		
	PHYLLITE		
136-155	Black punky broken up		
	GRAPH. PHYLL ~ 2' core recovery		
155-192	CHL ANDESITIC TUFF BRECCIA		
	ZONE, FRACT & RECEMENTED BY		
	SiO ₂ + CO ₃		
171 1/2-172 1/2	punky		

		320 LX Pacific Rampool	
192-193	QTL - CO ₃ BAND (VEIN)		
193-197	BIOTITE PHYLLITE		
	S ₂ & COMP BANDS 20° DIP		
	FRACT & RESEM W/ SiO ₂ ; FRACT POST SULF		
	Py ~ 1% + ZONES OF 5-10% OVER 1-2" ZONES		
	Bio phyll shows INCREASING RHYTHMIC BANDING W/ INCREASING AMOUNTS OF CHL. PHYLL INEAR BOTTOM OF INTERVAL		
197-198	CHL. ANDESITIC TUFF		
198-198 1/2	BIO PHYLL		
	UPPER & LOWER CONTACTS SHARP.		
	S ₂ 10-15° DIP		
	Py ~ 3% FRAC CONT & DISSEM		
198 1/2-231	CHL ANDESITIC TUFF		
	W RANDOM ZONES OF CHL. BIO ANDES. ZONES.		
200-200 1/2	FRACT & SiO ₂ CO ₃ CEM AS FRACT FILL		

320 LX Pacific Rampool	
202-203	SiO ₂ -CO ₂ ZONE W BROKEN W/ CHL ALONG FRACT.
203-208	CHL AND TUFF
208-213	CHL-BIO AND TUFF FRACT & SiO ₂ -CO ₂ FRACT FILL
213-220 1/2	CHL AND TUFF
220-231	CHL BIO TUFF PRECIPITATED & SiO ₂ -CO ₂ FRACT FILL PY IN ZONE ~ 20%
231-246	GRAPHITIC ^{BIO} PHYLLITE BLACK / MINOR AMOUNTS OF GY CHL-BIO PHYLLITE.
231-232	SOFT
232-239 1/2	SOFT FOLIATED S ₂ & COMP BANDS ~ 20° DIP
	Py var TO 5-10% MAINLY DISSEM FINE FRACT. Py clots ALSO WITH WHITER QUITZ "CLOTS" & LOOK SIMILAR HAVE CHARACTERISTICS OF PHENO- CRYSTS

320 LX Pacific Rampool	
246-330	CHL ANDES TUFF In SOME ZONES BLACK BIO(?) CLOTS IN TUFF py ~ 1% or less S ₂ ? 30° @ 280
	PRECIPITATED - FRACT ZONES FRACT. PATTERN IS RANDOM
284-290	Fract Fill SiO ₂ -CO ₂
305-306	
309-317	
318-321	SiO ₂ -CO ₂ (ankerite?) Fill zone w/ chl andes tuff.
330-340	CHL ANDES TUFF ROCK HAS "SPOTTED" APPEARANCE CAUSED BY DISCONTINUOUS ZONES OF BIO(?) TO FOLIATION S ₁ ? S ₂ ? 50° DIP @ 340 py ~ 1% OR LESS, DISSEM FREQ. MORE COMMON W/ BIO(?) [DARK] BANDS.

320 LX Pacific Rampool	
340-341	SiO ₂ -CO ₂ ZONE (VEIN??)
341-365	CHL ANDES TUFF S ₂ DIP 40-45° @ 362 py - trace amts > 1%
365-380	GRAPHITIC(?) BIO PHYLLITE TO BANDED BIO CHL PHYLLITE UPPER CONTACT GRADATIONAL S ₁ 20° DIP COMP BAND S ₂ 55-60° @ 371 to fract Py MAINLY FRACT FILL ASSOC w/ SiO ₂ BANDS ~ 3% FRACT FILL BOTH SiO ₂ & CO ₂ BANDS ARE PRESENT
380-410	CHL ANDES TUFF SHARP TOP CONTACT GRADES TO GR. BIO PHYLLITE FRACT FILL = CaCO ₃ py to amounts < 1% S(?) FRAC & SHEAR 55° DIP

		320 LX Pacific Rainforest	
410 - 426	GRAPH Bio PHYLL		
	w/ CO ₂ stringers as fract fill		
	S ₂ (?) var 40-50°		
	this also to fract		
	py < 1% = more like trace amounts		
	Larger amounts in fract w/ SiO ₂ (?) & CO ₂		
426 - 522½	CHL ANDES TUFF		
	w/ BIO CHL ANDES TUFF ZONE @ 450-453		
	S ₂ (?) 50° DIP @ v 461		
	also to CO ₂ -SiO ₂ stringers & fract fill		
	40° @ 484		
	py < 1%, tr amounts		
522½ - 545	GRAPH Bio PHYLL		
	w/ SiO ₂ CO ₂ stringers as fract fill		
	BRECCIATED - SOFT PUNKY	522 - 522½	

		320 LX Pacific Rainforest	
	S ₂ (?) 60° @ 529'		
	COMP BANDS (Bio CHL ANDES TUFF - BIO PHYLL) 60°		
	py < 1% tr amounts		
	GRADES TO CHL ANDES PHYLL		
	C		
545 - 637	CHL ANDES TUFF		
	565-572 Banded w/ GRAPH Bio ANDES TUFF		
	SHARP DISTINCT CONTACTS		
	CaCO ₃ + SiO ₂ + CO ₂ (ANK?) stringers present		
	SHEAR ZONE 70° DIP (538-561)		
	S ₂ (?) & Comp Bands 45°		
598 - 604	CaCO ₃ RICH ZONE		
	py 2-3% DISSEM MAINLY		
612 - 612½	CaCO ₃ CEM BXA ZONE		
637 - 657	GRAPH Bio PHYLL		
	S ₂ (?) & Comp Bands dip 60°		
	py ~ 3% S ₂ & in Fract		
648 - 649	SiO ₂ CO ₂ VEN TYPE FILL		

		320 LX Pacific Rainforest	
657 - 683	CHL ANDES TUFF		
	MINOR AMT OF SiO ₂ CO ₂ STRINGERS		
	S ₂ (?) 40°		
	py tr to < 1%		
683 - 706½	GRAPH Bio PHYLL		
	MINOR CRENULATION FOLDING & CaCO ₃ STRINGERS		
	S ₂ (?) 30° @ 697		
	S ₁ Comp Band 00° @ 693		
	py 5-10% 686½ - 690		
	in BRATED(?) ZONE w/ SiO ₂ & MINOR CO ₂ CEMENT		
706½ - 709½	PUNKY GRAPH BXA		
	POORLY CEMENTED, DARK BLACK		
	NO SURF NOTED		
709½ - 710			
	GRAPH Bio PHYLL - BROKEN BXA		
	LEAS ALSO PRESENT		
	FeOx ON FRACT SURF		

Interval	Recovery Ft Core	320 LX Pacific Rainforest
X 7201		
57 - 60	1.1	
60 - 63	1.2	
63 - 66	2.6	
66 - 69	0.8	
69 - 71	2.3	
71 - 72½	1.7	
72½ - 77	4.5	
77 - 80	2.5	
80 - 84	1.8	
84 - 84½	0.3	
84½ - 87½	1.6	
87½ - 92	1.6	
92 - 92½	0.1	
92½ - 100	1.7	
100 - 100½	0.1	
100½ - 112	1.1	
112 - 120	0.7	
120 - 122	1.0	
122 - 125	1.5	
125 - 128	1.7	
128 - 136	0.8	
136 - 146	0.4	
146 - 147	0.2	
	31.7	

Interval	Ft Core	320 LX Pacific Rainforest
147 - 154	0.2	
154 - 164	6.5	
164 - 167	1.9	
167 - 171½	3.2	
171½ - 172½	1.0	
172½ - 176½	3.0	
176½ - 178½	1.8	
178½ - 183	4.3	
183 - 186½	3.8	
186½ - 187	1.1	
187 - 189	1.7	
189 - 190	0.1	core redrilled
190 - 191	0.7	
191 - 192	0.4	
192 - 193	1.1	
193 - 197	4.5	
197 - 202	5.0	
202 - 205	3.5	
205 - 208	2.8	
208 - 213	2.5	
213 - 218	4.4	
218 - 222	4.3	
222 - 226½	4.6	
226½ - 228	1.3	

Interval	Ft Core	320 LX Pacific Rainforest
228 - 231	1.8	
231 - 233	2.1	
233 - 236½	2.0	
236½ - 241½	4.2	
241½ - 243	1.0	
243 - 245	2.0	
245 - 248	2.3	
248 - 256½	4.1	
256½ - 259	4.2	
259 - 266½	7.6	
266½ - 271	4.8	
271 - 278	7.3	
278 - 281	3.0	
281 - 284	2.2	
284 - 288	4.0	
288 - 292	3.9	
292 - 294	2.1	
294 - 299½	5.9	
299½ - 301	2.1	
301 - 306	4.5	
306 - 309	2.4	
309 - 322	12.9	
322 - 328	6.4	
328 - 330	1.8	
330 - 335	5.0	

INTERVAL		130 LX Pacific Rainproof FT	4 x 7201
335	340	5.2	
340	345	4.8	
345	347	1.1	
347	350	2.5	
350	355	4.8	
355	356 1/2	1.4	
356 1/2	363	6.6	
363	366 1/2	3.6	
366 1/2	379	12.7	
379	387	8.9	
387	393	5.9	
393	397	4.0	
397	400 1/2	2.7	
400 1/2	405	4.7	
405	410 1/2	5.3	
410 1/2	415	2.4	
415	427(?)	7.5	
427	433	0.6	
433	434 1/2	0.8	
434 1/2	440	5.2	
440	444 1/2	4.1	
444 1/2	447 1/2	3.4	
447 1/2	450 1/2	3.2	
450 1/2	453 1/2	3.0	
453 1/2	456	3.0	
456	458	2.1	
458	467	8.5	
467	474	7.0	
474	477 1/2	5.7	

		130 LX Pacific Rainproof
477 1/2	487	6.9
487	495 1/2	7.8
496 1/2	500 1/2	3.7
500 1/2	504	3.7
504	507	2.8
507	509 1/2	2.6
509 1/2	511 1/2	1.5
511 1/2	514	2.1
514	515	1.7
515	517	1.2
517	520	2.1.9
520	522 1/2	2.1.3
522 1/2	524	2.1.7
524	526 1/2	1.1
526 1/2	529	2.4
529	534	4.3
534	536 1/2	2.4
536 1/2	540	2.1
540	542	1.3
542	545	1.6
545	547	2.2
547	549	2.0
549	551	1.9
551	553 1/2(?)	1.9
553 1/2	557	1.7

		130 LX Pacific Rainproof
557	565	6.3
565	569 1/2	2.9
567 1/2	570	1.7
570	572	1.2
572	574	2.2
574	576	1.9
576	580	3.8
580	583	3.0
583	586 1/2	3.6
586 1/2	590	3.4
590	593	3.1
593	603	9.5
603	610	7.3
610	615	5.2
615	624	7.6
624	631	7.6
631	635	1.0
635	636	0.7
636	643	4.4
643	645 1/2	0.4
645 1/2	647	1.0
647	654	1.3
654	657	1.0
657	657 1/2	0.1.3

657 $\frac{1}{2}$	659	1.5
659	661	1.4
661	661 $\frac{1}{2}$	1.3
661 $\frac{1}{2}$	664 $\frac{1}{2}$	3.0
664 $\frac{1}{2}$	666	2.0
666	668	1.6
668	670 $\frac{1}{2}$	2.9
670 $\frac{1}{2}$	673 $\frac{1}{2}$	3.1
673 $\frac{1}{2}$	676	2.9
676	678 $\frac{1}{2}$	3.4
678 $\frac{1}{2}$	681 $\frac{1}{2}$	3.0
681 $\frac{1}{2}$	683	2.5
683	686 $\frac{1}{2}$	1.0
686 $\frac{1}{2}$	687	0.6
687	687 $\frac{1}{2}$	0.3
687 $\frac{1}{2}$	688 $\frac{1}{2}$	0.7
688 $\frac{1}{2}$	689	1.5
689	692	1.8
692	699 $\frac{1}{2}$	7.7
699 $\frac{1}{2}$	706 $\frac{1}{2}$	4.7
706 $\frac{1}{2}$	708	1.8
708	708 $\frac{1}{2}$	0.2
708 $\frac{1}{2}$	709 $\frac{1}{2}$	0.6
709 $\frac{1}{2}$	710	0.3

570.8
653

= 79.2

70

X 7201

708¹/₂ - 712¹/₂ NO CORC. CONC 3/4" PECE
OF SIZE VERN IN GRAPH. PHYLITE

712¹/₂ - 723 N 1" REC. AT QUICE IN
BIO PHYLITE

723 - 724 0.7' CORE

723 - 723 GRAPH BIO PHYLITE
BLACK, HIGHLY FRACT W/ SiO₂ CO₃
IN FRACT FILL
S, P) horiz (D° Dip from horiz)

733 - 736¹/₂ PUNKY 20 - CHL PHYLITE
w 4% Py
NO ANTICIPES

736¹/₂ - 740¹/₂ BIO GRAPH PHYLITE BIO PHYLITE
GRAPH CONTENT DECREASED FROM
UPPER PART IS N 720 - 730'

N 1 - 2% Py in sect. w/ py assoc
w SiO₂ - CO₃ bands and blobs

762¹/₂ - 775¹/₂ CALORITIC TUFF
TOWARDS 775
S₂ - 25°

775¹/₂ - 780 QUICE
UPPER CONTACT W/ CHL
PHYLITE BRECCIATED IR
CR4 W/ UPPER CONTACT

780 - 791 CHL PHYLITE
BRECCIATED BUT ONLY SLIGHT
DISTURBING OF S₂ - 40°
QTL VENS CUT S₂ LAYER

X 7201

791 - 803 CHL - AMPH GREENSTONE
- DIORITE
2-3% Py
ROCK BRECCIATED W SiO₂
ALONG 1/8" FRACT. FRACTURE
PATTERN APPARENTLY RANDOM

TD 803'

X 7201

#1 ✓ GRAPH PHYL W/ N 1% Py 745' ✓

$\frac{151.75}{60.0} = 2.52$

#2 ✓ Constone @ 8400' ✓
3.11
 $\frac{140.1g}{45.0 ml}$

#3 ✓ 479' TUFF 479' ✓
3.68
 $\frac{202.7g}{55 ml}$ REPEAT 3.0

#4 ✓ 782' Tuff cut 479' ✓
2.70
 $\frac{81.5}{67}$

#5 ✓ Quartzite 779' 2.75
 $\frac{159.7}{58} =$

#6 ✓ CHL TUFF 785' ✓
3.02
 $\frac{66.6g}{22 ml}$

X 7201		RECOVERY	
724 - 725 1/2	0.5	792 1/2 - 795	2.3
725 1/2 - 728	0.8	796	0.9
728 - 730	0.9	798	0.6
730 - 737	0.2	799	0.1
736 1/2	1.9	803	1.4
742	0.4		
744	1.6	803 = BOTTOM	
745 1/2	1.0		
748	1.1		
749 1/2	1.3		
750	0.7		
752 1/2	2.1		
756	0.2		
759	0.7		
761 1/2	1.3		
762 1/2	0.0	SAND	
769 1/2	0.4	SAND	
772	1.6		
775 1/2	2.0		
780	1.4		
783	1.5		
786 1/2	2.3		
788 1/2	1.0		
791	1.2		
792 1/2	0.9		
320 LX Pacific Rainpool			

#	Sample	Weight	Volume	Specific Gravity
#7	Ampl 4	135.4g	45 ml	3.00
#8	Graph bic phyl	91.35g	39 ml	2.34
#9	Graph phyl BV 4	86.94g	31 ml	2.80
#10	EX amp 4	208.8g	75 ml	2.78
#11	chl phyl	99.9g	37 ml	2.7
#12	Tuff	91.3g	33 ml	2.77

#	Sample	Weight	Volume	Specific Gravity
#13	Ch 76 H w	228.1g	79 ml	2.82
#14	Tuff w/ mine	265.5g	93 ml	2.85
#15	Tuff 1-2 2/3 py	346.3g	118 ml	2.93
#16	Tuff minor w/ 2/3 py	241.7g	88 ml	2.75
#17	Tuff of size 60 4	271.5g	85 ml	2.86

#18 ✓ 87201
Tuff BVA 306

223.9 g
80 ml 2.80

#19 ✓ Tuff Owl Rio 670

187.45 g
65 ml 2.87

#20 ✓ Anceley Tuff 440

336.0
120 2.8

#21

Tuff w g tals 590
Boulders

279.4 g
98 ml 2.85