DIAMOND DRILL HOLE LOG
TECK CORPORATION

Property	MINTO	Hole No.	93 - F
Location	YUKON	Bearing at collar	
	RECORD 253	Inclination at collar	- 90°
Coord.– Collar N	10,928.0		
E	10,403.3	Length	357
Elev.– Collar	2661.9	Core Size	HQ
Date Started	29/SEPT/93		
Date Completed	01/OCT/93	Logged By	PF

LEGEND

SURVEY

Depth	Bearing	Inclination

LITHOLOGY, ALTERATION, MISC.	Depth	GRAPHIC LOG	MINERALIZATION	RECOVERY Run	RECOVERY %	ANALYTICAL Sample	Interval to	width	BOX
0 - 30 OVERBURDEN			CASING TO 22'						
30 - 54.5 GRANODIORITE (9)	30			32	35%				Box 1
INTENSELY FRACTURED, BIOTITE GRANODIORITE. OXIDIZED. RELATIVELY WEAK LIMONITE, HEMATITE.	40	LIM HEM		42	25%				
	50	LIM HEM	PROBABLE RIPPING LIMIT	50 51.5	67%	3154	50-51	1	ABA
54.5 - 58 PEGMATITE (11)		PEG 11 65°		53.5	40				Box 2
58 - 74 GRANODIORITE (9)	60	LIM 42 HEM 40 50	FRACTURE SET ABOUT 40°	56 61 62	95 86 100				
OXIDATION WEAKENS @ 68 FT.		LIM HEM	FRACTURE ZONE.	65	98				Box 3
	70		MINOR LIM AFTER 68'	69	83				

DDH: 93 - F

LITHOLOGY, ALTERATION, MISC.

74-138 FOLIATED GRANODIORITE (S)
WEAK CLAY ALTERATION

MODERATE FRACTURING THROUGHOUT
NO CORE PIECES GREATER THAN
1 ft LONG.

PROMINENT FRACTURE SET
@ ABOUT 75°

NO REMAINING CORE 110-211

SMALL FAULT @ ABOUT 25°

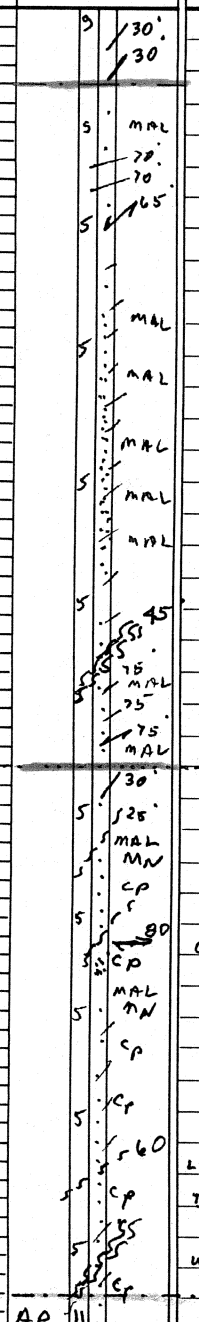
@ 125' INCREASING BIOTITE CONTENT
INCREASED CLAY ALTERATION.
SERICITE ALTERATION ALSO
NOTED.

138-140 HIGHLY FRACTURED APLITE

Depth

70
80
90
100
110
120
130
140

GRAPHIC LOG



MINERALIZATION

WEAK MALACHITE ON FRACTURES AND BIOTITE FOLIA INCREASING GRADE DOWNWARDS

FAULT POSSIBLY @ 45° OR STEEPER. MALACHITE IN FAULT RUBBLE.

OXIDE ZONE
MIXED OXIDE-SULFIDES
DECREASING MAL. DOWNWARDS.

cp IN SMALL SILICEOUS ZONE

LIM, MAL.
DISSEM cp.

WEAK MAL.

RECOVERY

Run	%
72	100
	100
77	
	99
82	
	100
87	
	99
92	
	99
97	
	100
101	
	97
106	
	100
111	
	99
114	
	99
119	
	83
122	
	99
127	
	99
132	
	72
137	
	50

ANALYTICAL

Sample	Interval from	Interval to	width	Au g/t	Ag ppm	Cu %	
005034	71	74	3	ABA	SAM	PLE	
4579	74	79	5	<.002	<1.0	0.31	
4580	79	84	5	<.002	<1.0	0.34	
D178	77.0	79.0	2.0	ABA			
4581	84	89	5	0.003	1.50	0.60	
4582	89	94	5	0.005	2.20	0.63	
005033	92	99	7	ABA	EXTR	ACTION	LEACH
4583	94	99	5	0.005	1.9	0.62	
D179	98.0	100.0	2.0	ABA			
4584	99	104	5	0.009	3.1	0.43	
005035	101	104	3	ABA	SAM	PLE	
4585	104	110	6	0.003	1.3	0.58	
4586	110	115	5	0.005	2.4	0.56	
4587	115	120	5	0.004	2.7	0.57	
4588	120	125	5	0.009	59	1.43	
4589	125	130	5	0.008	51	1.33	
4590	130	135	5	0.006	49	1.34	
4591	135	140	5	<.002	1.0	0.31	Box 9

BOX

Box 4
Box 5
Box 6
Box 7
Box 8

DDH: 93-1

LITHOLOGY, ALTERATION, MISC.

140 - 142 FAULT ZONE

142 - 150.5 FOLIATED GRANODIORITE (5)
BIOTITE RICH, WELL FRACTURED

CLAY AND SERICITE ALT - WEAK.

150.5 - 153.5 KSPAR RICH GNEISS (3)
FOLIATED APLITIC OR SANDY TEXTURED
PINK FINE GRAINED ROCK WITH SOME
FELDSPAR CRYSTALS. CLAY ALT.

153.5 - 183 FOLIATED GD. (5)
FRACTURED THROUGHOUT, NO CORE
MORE THAN 1 ft LONG. TRACES LIM.
PROMINENT FRACT. @ 70°
WEAK SERICITE ALT. EXCEPT IN
AREAS OF FAULT ZONES WITH
HEM, CHL, SER.

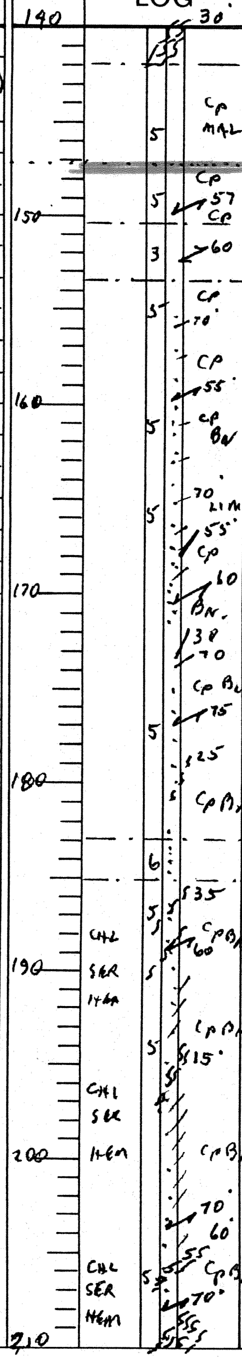
SMALL FAULT 25°
CHL, SER, HEM ALT

183 - 185 BIOTITE QTZ. FELD GNEISS (6)
CHL SER HEM ALT

185 - 211 FOLIATED GD. (5)
NUMEROUS LIMONITIC FAULT ZONES
WITH CHL, SER, HEM ALT, STRONG
HIGHLY FRACT OVER MOST OF
INTERVAL. TRACES CALCITE
THROUGHOUT.

206 - 211 50% FAULT ZONES
LIM, CLAY TRACES MAL.

Depth / GRAPHIC LOG



MINERALIZATION

MN, LIM, MAL.

MIXED OXIDE-SULFIDES
147

SULFIDES.

FINE Cp TRACES
MAL ON LIM. FRACTS.

LIM, HEM, WEAK

NOTE APPEARANCE OF
BORNITE.

INCREASING Cp Bn

Cp, Bn WELL MIN.

SMALL FAULT 15° LIM.
CLAYS

DISSEM Cp, Bn.

CALCITE VEINLETS.

TR. MAL, LIM

RECOVERY

Run	%
142	99
147	100
152	100
157	100
162	100
167	90
172	98
177	99
182	99
187	100
192	60
196	98
201.5	96
206.5	

ANALYTICAL

Sample	Interval to	width				
4592	140-147	7	0.005	3.9	1.08	
	MET. SAMPLE FROM 147.0' TO 211.0'					
4683	150.3 to	151.0	SRK STRENGTH TEST			

BOX

Box 10
Box 11
Box 12
Box 13
Box 14

DDH: 93-F

LITHOLOGY, ALTERATION, MISC.	Depth	GRAPHIC LOG	MINERALIZATION	RECOVERY Run	RECOVERY %	ANALYTICAL Sample	Interval to	width				BOX
211 – 242 GRANODIORITE (9) MEDIUM GRAINED HBLDE-Bi GRANODIORITE WITH SOME ORTHOCLASE PORPHYROBLASTS	210		WEAK Cp TRACE MAL.	212	69	005036	211-214	3	ABA	SAMPLE		Box 15
VERY WEAK EPIDOTE CHLORITIC ALT.	220		TRACES LIM. ON FRACTS.	217	100	4682	219.0 –	220.0	ABA	SAMPLE		80 x 15
229 – 231 GRANITE PEGMATITE.	230	GP	HIGHLY FRACT.	222	100							Box 16
242 – 274 PORPHYROBLASTIC G.D. (10) HARD, WEAKLY FRACTURED, VERY WEAK CHLORITE-EPIDOTE ALT.	240			227	100							Box 17
	250			232	99							
				237	100							
				242	100							
				241	100	005037	245-248	3	ABA	SAMPLE		Box 18
				252	100							
261 – 262 GRANITE DYKE.	260	G		257	100							Box 19
				262	100							
	270			267	100	4684	269.0	to 270.0	ABA	SAMPLE		
274 – 327 FOLIATED GRANODIORITE (5) WEAK SERICITE ALTERATION THROUGHOUT. BRITTLE MINERALIZED SECTIONS ARE CONTAINED WITHIN			TRACES Cp Bn.	272	100							Box 20
	280			277								

DDH: 93-F

DDH: 93-F

LITHOLOGY, ALTERATION, MISC.

MORE FOLIATED, BIOTITE RICH SECTIONS. WEAK SER. ALT

284.5-289.5 BIOTITE RICH SECTION MINOR MAG. ALONG FOL. @ 289.4

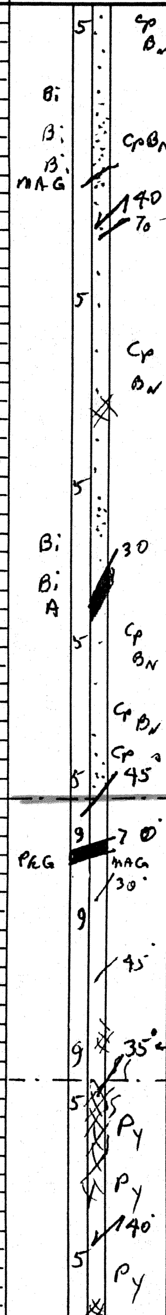
310-312 APLITE

322-337 GRANODIORITE (9)
WEAK Ep-CHLORITE ALT.
324.5-326 PEG. @ 70°

337-351 FOLIATED GRANODIORITE (5)
HIGHLY FRACTURED ZONE 336-343
PROBABLY A STEEPLY DIPPING FAULT.

Depth / GRAPHIC LOG

Depth: 280, 290, 300, 310, 320, 330, 340, 350



MINERALIZATION

FAIRLY WEAK Cp Bn MINERALIZATION.

BETTER Cp Bn min.

LAYER SHEAR @ 70°

NON-MINERALIZED APLITE

CONTACT @ 45°

TRACES Cp, Bn, MAG AT EDGES OF PEG.

PATCH OF MAG.

WEAKLY DISSEM. Py THROUGHOUT. A FEW CRYSTALS OF Cp @ TOP OF SECTION.

RECOVERY

Run	%
282	100
	100
287	
	100
292	
	100
297	
300	100
302	100
	100
307	
	100
312	
	100
317	
	100
322	
	100
327	
	100
332	
	99
337	65 %
340	
	98 %
344	
	100
349	

ANALYTICAL

Sample	Interval to	width	Au g/ton	ag ppm	Cu %	BOX
4991	280-284.5	4.5	0.003	2.4	0.48	
4992	284.5-289.5		0.005	3.7	1.00	Box 21
4993	289.5-294.5	5	0.002	1.2	0.35	
3188	292-293.5	1	ABA	SAMPLE		
4994	294.5-298.5	4	0.002	1.3	0.33	
4995	298.5-304	5.5	0.002	1.2	0.39	Box 22
4996	304-310	6	0.003	1.6	0.58	
3189	305.0-306.5	1	ABA	SAMPLE		
4997	310-315	5	0.003	1.9	0.46	Box 23
4998	315-322	7	0.006	4.1	1.05	
		42.0'			0.61 %	
005038	323-326	3	ABA	SAM	PLE	Box 24
005039	337-340	3	ABA	SAM	PLE	Box 25
						Box 26

LITHOLOGY, ALTERATION, MISC.	Depth	GRAPHIC LOG	MINERALIZATION	RECOVERY Run	RECOVERY %	ANALYTICAL Sample	ANALYTICAL Interval to	ANALYTICAL width	BOX
351 – 357 PORPHYROBLASTIC GD. (10) TRACES Kfp – CHL. ALT.	350	5		352					
		10			100				
EOH. 357				357					

DDH: 93-F

DRILLHOLE NO. 93F

DATE LOGGED: 17 OCT 93 BY: PF

RMR DRILLCORE LOGGING FORM

INTERVAL		Lith.	Length	No. Joints	S2	Strength (MPa) S1	JOINT CONDITION				RMR	
From	To						Large (A)	Small (B)	Alt. (C)	Fill (D)	S3 (A*B*C*D*40)	S1+S2+S3
30	54.5	9	24.5		0	10	80	90	100	70	20	30
54.5	58	PEG 11	3.5		2	16	80	90	100	90	26	44
58	64	9	6		10	10	80	90	100	80	23	43
64	69	9	5		5	8	80	90	100	75	22	34
69	74	9	5		18	10	80	90	100	80	23	51
74	87	5	13		12	5	80	90	100	90	26	43
87	105	5	18		8	4	80	90	100	80	23	35
105	106	FLT	1									5
106	119	5	13		8	5	80	90	100	80	23	36
119	125	5	6		8	7	80	90	100	80	23	38
125	134	5	9		8	6	80	90	100	80	23	37
134	142	5	8	FAULT ZONE + HIGHLY FRACT								5
142	150.5	5	8.5		8	6	80	90	100	80	23	37
150.5	153.5	3	3		20	6	80	90	100	80	23	49
153.5	168	5	14.5		8	6	80	90	100	80	23	37
168	183	5	15		7	5	80	90	100	70	20	32
183	192	5	9		12	6	80	90	100	80	23	41
192	212	5	20		5	5	80	90	100	70	20	30
		ZONE COMPRISED OF 50% FAULT ZONES HIGHLY FRACT.										
212	229	9	17		18	10	80	90	100	90	26	54
229	231	PEG			3	12	80	90	100	90	26	41
231	242	9	11		18	12	80	90	100	90	26	56
242	274	10	32		18	12	80	90	100	90	26	56
274	284.5	5	10.5		19	7	80	90	100	90	26	52
284.5	289.5	5	5		18	5	80	90	100	90	26	49
289.5	322	5	32.5		15	7	80	90	100	90	26	48
322	332	9	10		18	12	80	90	100	90	26	56
332	337	9	5		11	12	80	90	100	90	26	49
337	344	5	7		2	7	80	90	100	80	23	32
344	351	5	7		15	7	80	90	100	90	26	48
351	357	10	6		20	12	80	90	100	90	26	58