

Eldorado Placers Sixtymile River Alluvial Claims

618 claims, approximately 504 of creek claims and 114 of bench claims.

A creek claim is 500 feet x 2,000 feet = 1,000,000 sqft = 111,111sqyds

A bench claim is 500 feet x 1,000 feet = 500,000 sqft = 55,555sqyds

Claims block area = approximately 62,222,100sq yds = 20 square miles

= approximately 52 square kilometers

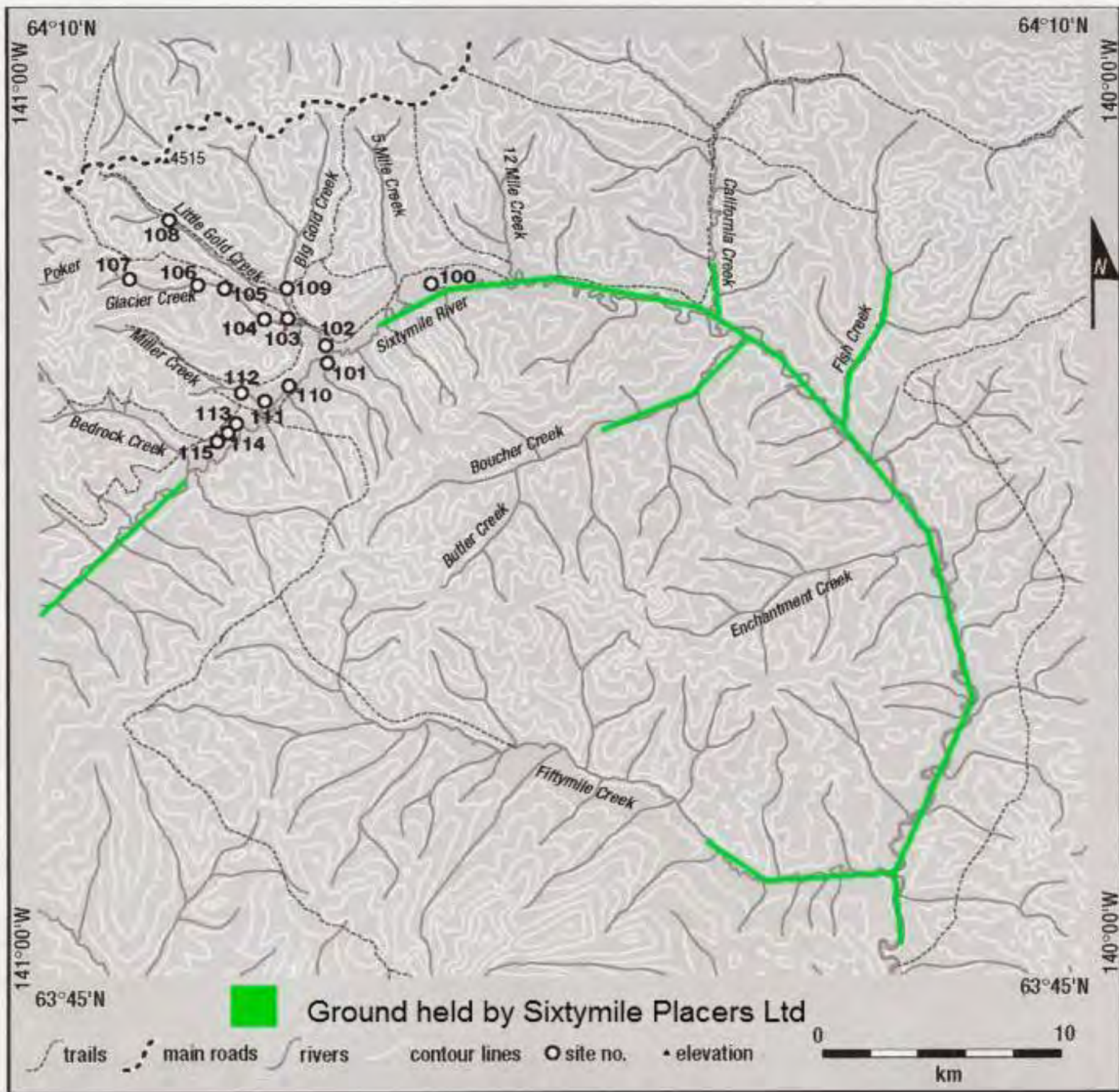
= approximately 12,800 acres

= approximately 5, 180 hectares

Average recovered grade = 0.035 fine ounces/square yard.

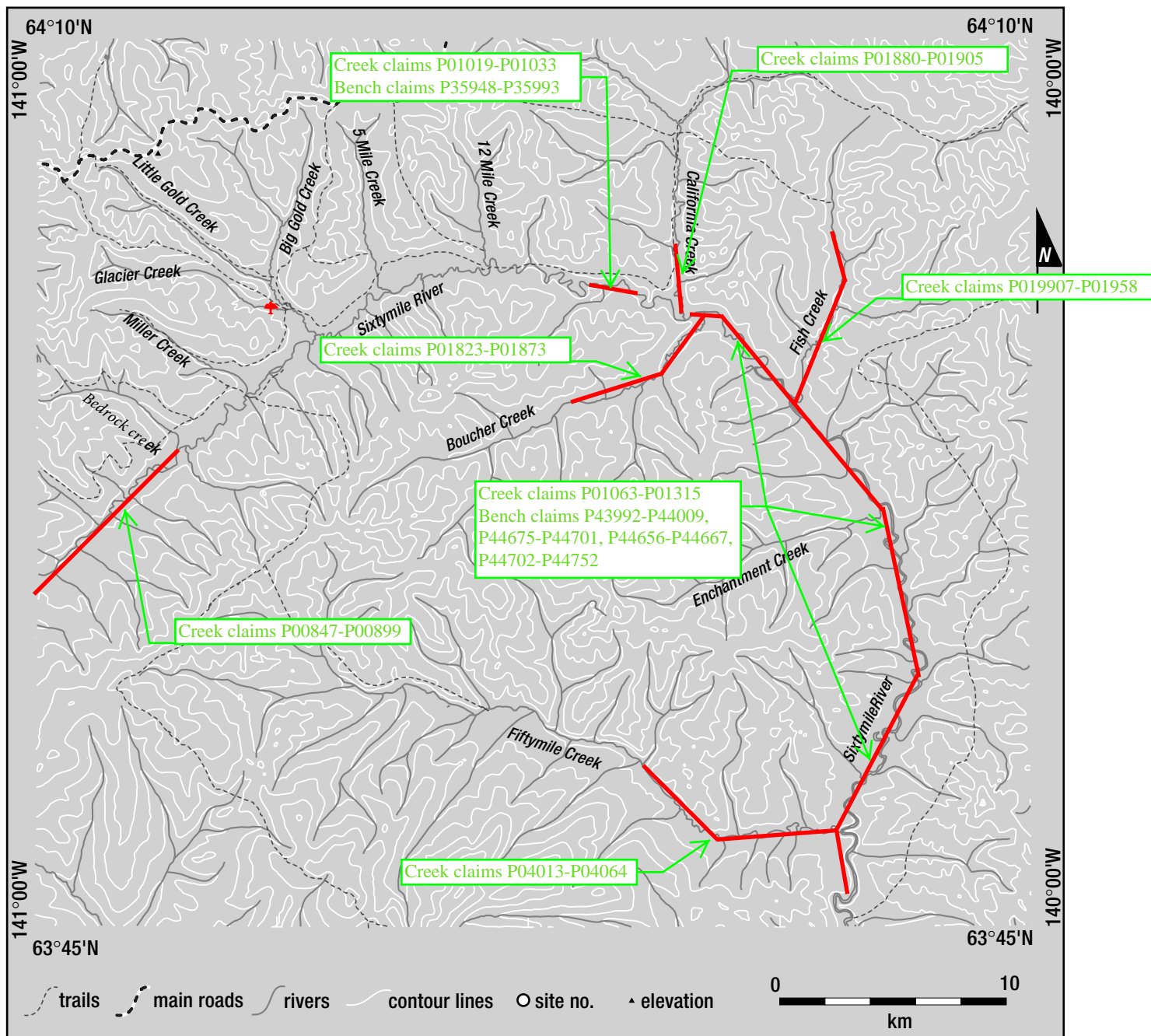
Theoretical reserve = 0.035oz x 62,222,100sq yds = 2,177,774 fine ounces

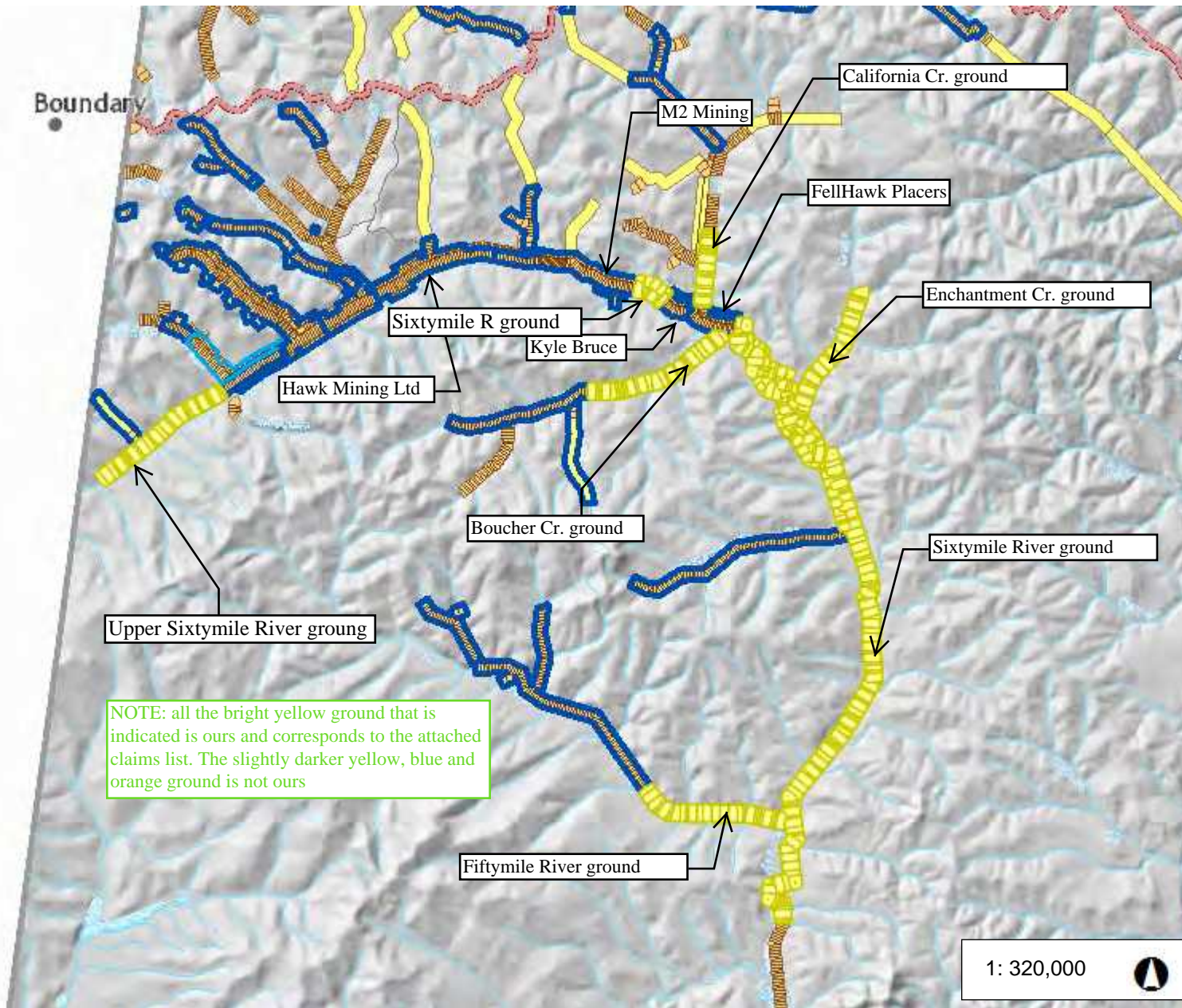
SIXTYMILE PLACER AREA



Sixtymile Placers Ltd

PLACER AREA





Legend

Class 3/4 Placer Land Use Op.

Class 3

Class 4

Placer Claim

Active and Pending

Expired

Placer Lease to Prospect

Active

Pending

Expired

422 Creek Claims
@ 50ft x 2,000ft
200 Bench Claims
@ 50ft x 1,000ft
Approx 11,983 acres

Notes

16.3 0 8.13 16.3 Kilometers

Yukon Albers
Produced from: Yukon Geological Survey MapMaker Online

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.
Date Printed: 09-Sep-2019

1: 320,000



geometry	Grant Num	Tenure Sta	Claim Labe	Claim Nam	Claim Num	Owner Name
Geocortex. P 01064	Active	Claim 217	Claim	217	Sixty Mile Placers Ltd. - 100%	
Geocortex. P 01111	Active	Claim 264	Claim	264	Sixty Mile Placers Ltd. - 100%	
Geocortex. P 01089	Active	Claim 242	Claim	242	Sixty Mile Placers Ltd. - 100%	
Geocortex. P 01277	Active	Claim 430	Claim	430	Sixty Mile Placers Ltd. - 100%	
Geocortex. P 01179	Active	Claim 332	Claim	332	Sixty Mile Placers Ltd. - 100%	
Geocortex. P 04044	Active	Claim 32	Claim	32	Sixty Mile Placers Ltd. - 100%	
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Geocortex. P 01846	Active	Claim 24	Claim	24 Sixty Mile Placers Ltd. - 100%
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Geocortex. P 01224	Active	Claim 377	Claim	377 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01071	Active	Claim 224	Claim	224 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01259	Active	Claim 412	Claim	412 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44002	Active	B 23	B	23 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04052	Active	Claim 40	Claim	40 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01194	Active	Claim 347	Claim	347 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01101	Active	Claim 254	Claim	254 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01281	Active	Claim 434	Claim	434 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01122	Active	Claim 275	Claim	275 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01158	Active	Claim 311	Claim	311 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01026	Active	Claim 180	Claim	180 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01883	Active	Claim 9	Claim	9 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01088	Active	Claim 241	Claim	241 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01195	Active	Claim 348	Claim	348 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01859	Active	Claim 37	Claim	37 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44719	Active	GH 18	GH	18 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01185	Active	Claim 338	Claim	338 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01168	Active	Claim 321	Claim	321 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01136	Active	Claim 289	Claim	289 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01913	Active	Claim 7	Claim	7 Sixty Mile Placers Ltd. - 100%
Geocortex. P 00881	Active	Claim 35	Claim	35 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01932	Active	Claim 26	Claim	26 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01109	Active	Claim 262	Claim	262 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44703	Active	GH 2	GH	2 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01200	Active	Claim 353	Claim	353 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01891	Active	Claim 17	Claim	17 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01210	Active	Claim 363	Claim	363 Sixty Mile Placers Ltd. - 100%

Geocortex. P 01021	Active	Claim 175	Claim	175 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44730	Active	GH 29	GH	29 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04046	Active	Claim 34	Claim	34 Sixty Mile Placers Ltd. - 100%
Geocortex. P 00879	Active	Claim 33	Claim	33 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01197	Active	Claim 350	Claim	350 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44701	Active	BH 27	BH	27 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01227	Active	Claim 380	Claim	380 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44716	Active	GH 15	GH	15 Sixty Mile Placers Ltd. - 100%
Geocortex. P 00858	Active	Claim 12	Claim	12 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01832	Active	Claim 10	Claim	10 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01921	Active	Claim 15	Claim	15 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01284	Active	Claim 437	Claim	437 Sixty Mile Placers Ltd. - 100%
Geocortex. P 00868	Active	Claim 22	Claim	22 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44000	Active	B 21	B	21 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44709	Active	GH 8	GH	8 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01085	Active	Claim 238	Claim	238 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04059	Active	Claim 47	Claim	47 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01278	Active	Claim 431	Claim	431 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01260	Active	Claim 413	Claim	413 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44726	Active	GH 25	GH	25 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01113	Active	Claim 266	Claim	266 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04036	Active	Claim 24	Claim	24 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01202	Active	Claim 355	Claim	355 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01225	Active	Claim 378	Claim	378 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01955	Active	Claim 49	Claim	49 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01159	Active	Claim 312	Claim	312 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01222	Active	Claim 375	Claim	375 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01872	Active	Claim 50	Claim	50 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01167	Active	Claim 320	Claim	320 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01848	Active	Claim 26	Claim	26 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01282	Active	Claim 435	Claim	435 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44722	Active	GH 21	GH	21 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01180	Active	Claim 333	Claim	333 Sixty Mile Placers Ltd. - 100%
Geocortex. P 00857	Active	Claim 11	Claim	11 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01246	Active	Claim 399	Claim	399 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01223	Active	Claim 376	Claim	376 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01902	Active	Claim 28	Claim	28 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01155	Active	Claim 308	Claim	308 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01262	Active	Claim 415	Claim	415 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01861	Active	Claim 39	Claim	39 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01860	Active	Claim 38	Claim	38 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01826	Active	Claim 4	Claim	4 Sixty Mile Placers Ltd. - 100%
Geocortex. P 43995	Active	B 16	B	16 Sixty Mile Placers Ltd. - 100%
Geocortex. P 00889	Active	Claim 43	Claim	43 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01181	Active	Claim 334	Claim	334 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01178	Active	Claim 331	Claim	331 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01189	Active	Claim 342	Claim	342 Sixty Mile Placers Ltd. - 100%

Geocortex. P 01842	Active	Claim 20	Claim	20 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01119	Active	Claim 272	Claim	272 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01285	Active	Claim 438	Claim	438 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01151	Active	Claim 304	Claim	304 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01138	Active	Claim 291	Claim	291 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01162	Active	Claim 315	Claim	315 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01098	Active	Claim 251	Claim	251 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01297	Active	Claim 450	Claim	450 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01065	Active	Claim 218	Claim	218 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01843	Active	Claim 21	Claim	21 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01196	Active	Claim 349	Claim	349 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44008	Active	B 29	B	29 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01866	Active	Claim 44	Claim	44 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01929	Active	Claim 23	Claim	23 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01209	Active	Claim 362	Claim	362 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01023	Active	Claim 177	Claim	177 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04039	Active	Claim 27	Claim	27 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44727	Active	GH 26	GH	26 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01198	Active	Claim 351	Claim	351 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44749	Active	GH 48	GH	48 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01134	Active	Claim 287	Claim	287 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01292	Active	Claim 445	Claim	445 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01252	Active	Claim 405	Claim	405 Sixty Mile Placers Ltd. - 100%
Geocortex. P 00851	Active	Claim 5	Claim	5 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04056	Active	Claim 44	Claim	44 Sixty Mile Placers Ltd. - 100%
Geocortex. P 00885	Active	Claim 39	Claim	39 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44745	Active	GH 44	GH	44 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44702	Active	GH 1	GH	1 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44737	Active	GH 36	GH	36 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01120	Active	Claim 273	Claim	273 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04017	Active	Claim 5	Claim	5 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01148	Active	Claim 301	Claim	301 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01291	Active	Claim 444	Claim	444 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01102	Active	Claim 255	Claim	255 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44725	Active	GH 24	GH	24 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44693	Active	BH 19	BH	19 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04015	Active	Claim 3	Claim	3 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04038	Active	Claim 26	Claim	26 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01093	Active	Claim 246	Claim	246 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01116	Active	Claim 269	Claim	269 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44698	Active	BH 24	BH	24 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44677	Active	BH 3	BH	3 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01838	Active	Claim 16	Claim	16 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01203	Active	Claim 356	Claim	356 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04018	Active	Claim 6	Claim	6 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01938	Active	Claim 32	Claim	32 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01177	Active	Claim 330	Claim	330 Sixty Mile Placers Ltd. - 100%

Geocortex. P 44683	Active	BH 9	BH	9 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01139	Active	Claim 292	Claim	292 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01944	Active	Claim 38	Claim	38 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04035	Active	Claim 23	Claim	23 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01951	Active	Claim 45	Claim	45 Sixty Mile Placers Ltd. - 100%
Geocortex. P 00896	Active	Claim 50	Claim	50 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01020	Active	Claim 174	Claim	174 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01930	Active	Claim 24	Claim	24 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01890	Active	Claim 16	Claim	16 Sixty Mile Placers Ltd. - 100%
Geocortex. P 35942	Active	BH 1	BH	1 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04047	Active	Claim 35	Claim	35 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44704	Active	GH 3	GH	3 Sixty Mile Placers Ltd. - 100%
Geocortex. P 00860	Active	Claim 14	Claim	14 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44740	Active	GH 39	GH	39 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01895	Active	Claim 21	Claim	21 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01229	Active	Claim 382	Claim	382 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01925	Active	Claim 19	Claim	19 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01949	Active	Claim 43	Claim	43 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01022	Active	Claim 176	Claim	176 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01237	Active	Claim 390	Claim	390 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44679	Active	BH 5	BH	5 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01274	Active	Claim 427	Claim	427 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04048	Active	Claim 36	Claim	36 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44689	Active	BH 15	BH	15 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01253	Active	Claim 406	Claim	406 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44686	Active	BH 12	BH	12 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01892	Active	Claim 18	Claim	18 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01881	Active	Claim 7	Claim	7 Sixty Mile Placers Ltd. - 100%
Geocortex. P 00871	Active	Claim 25	Claim	25 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01144	Active	Claim 297	Claim	297 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01233	Active	Claim 386	Claim	386 Sixty Mile Placers Ltd. - 100%
Geocortex. P 35947	Active	BH 6	BH	6 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01176	Active	Claim 329	Claim	329 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01236	Active	Claim 389	Claim	389 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01208	Active	Claim 361	Claim	361 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01124	Active	Claim 277	Claim	277 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01834	Active	Claim 12	Claim	12 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01090	Active	Claim 243	Claim	243 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44728	Active	GH 27	GH	27 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01911	Active	Claim 5	Claim	5 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01954	Active	Claim 48	Claim	48 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44738	Active	GH 37	GH	37 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01147	Active	Claim 300	Claim	300 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04032	Active	Claim 20	Claim	20 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01265	Active	Claim 418	Claim	418 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01899	Active	Claim 25	Claim	25 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04037	Active	Claim 25	Claim	25 Sixty Mile Placers Ltd. - 100%

Geocortex. P 35948	Active	BH 7	BH	7 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01939	Active	Claim 33	Claim	33 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44706	Active	GH 5	GH	5 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44667	Active	JF 12	JF	12 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01141	Active	Claim 294	Claim	294 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01268	Active	Claim 421	Claim	421 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01306	Active	Claim 459	Claim	459 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01218	Active	Claim 371	Claim	371 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44676	Active	BH 2	BH	2 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44724	Active	GH 23	GH	23 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44675	Active	BH 1	BH	1 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44658	Active	JF 3	JF	3 Sixty Mile Placers Ltd. - 100%
Geocortex. P 35997	Active	FH 9	FH	9 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01873	Active	Claim 51	Claim	51 Sixty Mile Placers Ltd. - 100%
Geocortex. P 00884	Active	Claim 38	Claim	38 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04049	Active	Claim 37	Claim	37 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01918	Active	Claim 12	Claim	12 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44666	Active	JF 11	JF	11 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04041	Active	Claim 29	Claim	29 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01847	Active	Claim 25	Claim	25 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01845	Active	Claim 23	Claim	23 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44664	Active	JF 9	JF	9 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04045	Active	Claim 33	Claim	33 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04053	Active	Claim 41	Claim	41 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01943	Active	Claim 37	Claim	37 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01885	Active	Claim 11	Claim	11 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44662	Active	JF 7	JF	7 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01823	Active	Claim 1	Claim	1 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01296	Active	Claim 449	Claim	449 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04051	Active	Claim 39	Claim	39 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01108	Active	Claim 261	Claim	261 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01922	Active	Claim 16	Claim	16 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01127	Active	Claim 280	Claim	280 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44663	Active	JF 8	JF	8 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01898	Active	Claim 24	Claim	24 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01831	Active	Claim 9	Claim	9 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01068	Active	Claim 221	Claim	221 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01894	Active	Claim 20	Claim	20 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44747	Active	GH 46	GH	46 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01893	Active	Claim 19	Claim	19 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04030	Active	Claim 18	Claim	18 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01953	Active	Claim 47	Claim	47 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01117	Active	Claim 270	Claim	270 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01143	Active	Claim 296	Claim	296 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01912	Active	Claim 6	Claim	6 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01314	Active	Claim 467	Claim	467 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01299	Active	Claim 452	Claim	452 Sixty Mile Placers Ltd. - 100%

Geocortex. P 00887	Active	Claim 41	Claim	41 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01934	Active	Claim 28	Claim	28 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44688	Active	BH 14	BH	14 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01072	Active	Claim 225	Claim	225 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01157	Active	Claim 310	Claim	310 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01193	Active	Claim 346	Claim	346 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04063	Active	Claim 51	Claim	51 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01887	Active	Claim 13	Claim	13 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44692	Active	BH 18	BH	18 Sixty Mile Placers Ltd. - 100%
Geocortex. P 00892	Active	Claim 46	Claim	46 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01152	Active	Claim 305	Claim	305 Sixty Mile Placers Ltd. - 100%
Geocortex. P 00866	Active	Claim 20	Claim	20 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04042	Active	Claim 30	Claim	30 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01288	Active	Claim 441	Claim	441 Sixty Mile Placers Ltd. - 100%
Geocortex. P 00867	Active	Claim 21	Claim	21 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01958	Active	Claim 52	Claim	52 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01874	Active	Claim 52	Claim	52 Sixty Mile Placers Ltd. - 100%
Geocortex. P 00861	Active	Claim 15	Claim	15 Sixty Mile Placers Ltd. - 100%
Geocortex. P 00856	Active	Claim 10	Claim	10 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01897	Active	Claim 23	Claim	23 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01312	Active	Claim 465	Claim	465 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44700	Active	BH 26	BH	26 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01153	Active	Claim 306	Claim	306 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01201	Active	Claim 354	Claim	354 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01024	Active	Claim 178	Claim	178 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01094	Active	Claim 247	Claim	247 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01231	Active	Claim 384	Claim	384 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01896	Active	Claim 22	Claim	22 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01173	Active	Claim 326	Claim	326 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44748	Active	GH 47	GH	47 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01836	Active	Claim 14	Claim	14 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01258	Active	Claim 411	Claim	411 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01211	Active	Claim 364	Claim	364 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44735	Active	GH 34	GH	34 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04034	Active	Claim 22	Claim	22 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01849	Active	Claim 27	Claim	27 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44685	Active	BH 11	BH	11 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44699	Active	BH 25	BH	25 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44746	Active	GH 45	GH	45 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01182	Active	Claim 335	Claim	335 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01206	Active	Claim 359	Claim	359 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44739	Active	GH 38	GH	38 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01142	Active	Claim 295	Claim	295 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01302	Active	Claim 455	Claim	455 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01025	Active	Claim 179	Claim	179 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01293	Active	Claim 446	Claim	446 Sixty Mile Placers Ltd. - 100%
Geocortex. P 00898	Active	Claim 52	Claim	52 Sixty Mile Placers Ltd. - 100%

Geocortex. P 01205	Active	Claim 358	Claim	358 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01070	Active	Claim 223	Claim	223 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01926	Active	Claim 20	Claim	20 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01133	Active	Claim 286	Claim	286 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01313	Active	Claim 466	Claim	466 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01092	Active	Claim 245	Claim	245 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01100	Active	Claim 253	Claim	253 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01245	Active	Claim 398	Claim	398 Sixty Mile Placers Ltd. - 100%
Geocortex. P 00883	Active	Claim 37	Claim	37 Sixty Mile Placers Ltd. - 100%
Geocortex. P 00855	Active	Claim 9	Claim	9 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04020	Active	Claim 8	Claim	8 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44659	Active	JF 4	JF	4 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01870	Active	Claim 48	Claim	48 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01112	Active	Claim 265	Claim	265 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01851	Active	Claim 29	Claim	29 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01121	Active	Claim 274	Claim	274 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01135	Active	Claim 288	Claim	288 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44656	Active	JF 1	JF	1 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01867	Active	Claim 45	Claim	45 Sixty Mile Placers Ltd. - 100%
Geocortex. P 43998	Active	B 19	B	19 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01828	Active	Claim 6	Claim	6 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04064	Active	Claim 52	Claim	52 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04054	Active	Claim 42	Claim	42 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04040	Active	Claim 28	Claim	28 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01215	Active	Claim 368	Claim	368 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01264	Active	Claim 417	Claim	417 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01857	Active	Claim 35	Claim	35 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01279	Active	Claim 432	Claim	432 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01923	Active	Claim 17	Claim	17 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01219	Active	Claim 372	Claim	372 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01840	Active	Claim 18	Claim	18 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01937	Active	Claim 31	Claim	31 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01261	Active	Claim 414	Claim	414 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04027	Active	Claim 15	Claim	15 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04062	Active	Claim 50	Claim	50 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04028	Active	Claim 16	Claim	16 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04014	Active	Claim 2	Claim	2 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01230	Active	Claim 383	Claim	383 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04019	Active	Claim 7	Claim	7 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01263	Active	Claim 416	Claim	416 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01869	Active	Claim 47	Claim	47 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04023	Active	Claim 11	Claim	11 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01247	Active	Claim 400	Claim	400 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01841	Active	Claim 19	Claim	19 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01255	Active	Claim 408	Claim	408 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01914	Active	Claim 8	Claim	8 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01888	Active	Claim 14	Claim	14 Sixty Mile Placers Ltd. - 100%

Geocortex. P 04029	Active	Claim 17	Claim	17 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01305	Active	Claim 458	Claim	458 Sixty Mile Placers Ltd. - 100%
Geocortex. P 35996	Active	FH 8	FH	8 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44751	Active	GH 50	GH	50 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01947	Active	Claim 41	Claim	41 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01128	Active	Claim 281	Claim	281 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01150	Active	Claim 303	Claim	303 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04055	Active	Claim 43	Claim	43 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01251	Active	Claim 404	Claim	404 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44712	Active	GH 11	GH	11 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01244	Active	Claim 397	Claim	397 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44732	Active	GH 31	GH	31 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01298	Active	Claim 451	Claim	451 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04031	Active	Claim 19	Claim	19 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01069	Active	Claim 222	Claim	222 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44721	Active	GH 20	GH	20 Sixty Mile Placers Ltd. - 100%
Geocortex. P 00880	Active	Claim 34	Claim	34 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01165	Active	Claim 318	Claim	318 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44743	Active	GH 42	GH	42 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44752	Active	GH 51	GH	51 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01076	Active	Claim 229	Claim	229 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01941	Active	Claim 35	Claim	35 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04024	Active	Claim 12	Claim	12 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01241	Active	Claim 394	Claim	394 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01829	Active	Claim 7	Claim	7 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01137	Active	Claim 290	Claim	290 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44713	Active	GH 12	GH	12 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01856	Active	Claim 34	Claim	34 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01019	Active	Claim 173	Claim	173 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01097	Active	Claim 250	Claim	250 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01212	Active	Claim 365	Claim	365 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01927	Active	Claim 21	Claim	21 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44691	Active	BH 17	BH	17 Sixty Mile Placers Ltd. - 100%
Geocortex. P 00849	Active	Claim 3	Claim	3 Sixty Mile Placers Ltd. - 100%
Geocortex. P 00888	Active	Claim 42	Claim	42 Sixty Mile Placers Ltd. - 100%
Geocortex. P 35945	Active	BH 4	BH	4 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44718	Active	GH 17	GH	17 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01066	Active	Claim 219	Claim	219 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44009	Active	B 30	B	30 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01186	Active	Claim 339	Claim	339 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01079	Active	Claim 232	Claim	232 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44714	Active	GH 13	GH	13 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01825	Active	Claim 3	Claim	3 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01242	Active	Claim 395	Claim	395 Sixty Mile Placers Ltd. - 100%
Geocortex. P 43994	Active	B 15	B	15 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44681	Active	BH 7	BH	7 Sixty Mile Placers Ltd. - 100%
Geocortex. P 04025	Active	Claim 13	Claim	13 Sixty Mile Placers Ltd. - 100%

Geocortex. P 01272	Active	Claim 425	Claim	425 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01160	Active	Claim 313	Claim	313 Sixty Mile Placers Ltd. - 100%
Geocortex. P 35943	Active	BH 2	BH	2 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01132	Active	Claim 285	Claim	285 Sixty Mile Placers Ltd. - 100%
Geocortex. P 00865	Active	Claim 19	Claim	19 Sixty Mile Placers Ltd. - 100%
Geocortex. P 01083	Active	Claim 236	Claim	236 Sixty Mile Placers Ltd. - 100%
Geocortex. P 44682	Active	BH 8	BH	8 Sixty Mile Placers Ltd. - 100%
Geocortex. P 00897	Active	Claim 51	Claim	51 Sixty Mile Placers Ltd. - 100%

6 *EDMUNDO AZEVEDO*
 CRYSTAL R. at California.
 Loc #1, 11th Mile.

444	S.	D.	28	5	8	Total
EP 07.19	0	19	5	-	4 1/2	9
EP 07.20	0	.	2	1	6 1/3	7
EP 07.21	0	.	2	1	6 1/3	7
EP 07.22	0	.	1	6	4 1/2	9
EP 07.23	0	.	1	4	4 1/2	9
EP 07.24	0	.	2	7	4 1/2	13
EP 07.25	0	.	1	6	6 1/2	11
EP 07.26	0	30	1	5	4 1/2	10
EP 07.27	0	.	4	2	6 1/2	11
EP 07.28	0	.	6	7	4 1/2	10
EP 07.29	0	.	4	3	4 1/2	11

26
 Average
 5 1/2
 Average

1	2	3	4	6	11/27
-	-	-	4	7	
-	-	1	2	11/28	
-	-	-	2	7	
-	-	-	2	7	
-	-	2	2	6 1/2	
-	1	1	4	7 1/2	11
-	-	1	15	5 1/2	11 1/2
-	-	2	28	7 1/2	11 1/2
-	-	-	2	7	
1	1	1	5	11 1/2	11 1/2
-	-	1	2	11/28	

11/27-28
 Average
 5 1/2

Orange R. at California Co.
 Dec 1 Oct.

Height	5	10	15	20	25	30
EP 97-30	0	20	2	5	4 1/2	4
EP 97-31	0	-	-	6	4 1/2	10
EP 97-32	0	20	-	8	4 1/2	12
EP 97-33	0	-	-	7	4 1/2	11
EP 97-34	0	-	-	8	4 1/2	12
EP 97-35	0	-	6	1	4 1/2	11
EP 97-36	0	20	3	4	4 1/2	11
EP 97-37	0	-	2	3	4 1/2	10
EP 97-38	0	-	3	4	4 1/2	11
EP 97-39	0	20	3	4	4 1/2	11
EP 97-40	0	-	2	3	4 1/2	9

2 samples 49 samples

1	2	3	4	5	6
-	-	2	20	10	10
-	-	1	14	20	10
-	-	-	9	20	10
-	-	-	5	10	10
-	-	-	-	-	-
1	-	3	2	10	10
-	-	-	1	10	10
-	-	1	4	10	10
-	-	-	5	10	10
-	-	-	1	10	10

Savanna R. California Co
Line 1 Cont.

Unit #	S.	T.	R.	Q.	R.	L.
EP 97-41	0	15	1	4	4	9
EP 97-42	0	-	2	4	4	10
EP 97-43	1	14	1	4	4	9
EP 97-44	2	-	1	9	4	10
EP 97-45	3	-	1	9	4	10
EP 97-46	3	-	1	11	4	12
EP 97-47	X	"	2	9	4	11
EP 97-48	"	20	-	10	4	10
EP 97-49	X	"	2	9	4	11
EP 97-50	X	21	3	9	4	12
EP 97-51	0	0	3	10	4	13

1/2 acre
S. 1/2

1	2	3	4	10/1000	
-	1	1	1	26	1
-	-	1	4	82	1
-	-	-	1	Tr	Tr
-	-	-	5	16	Tr
41A 1-7/8	-	-	3	Tr	Tr
41B 7-8/8	-	1	9	31	1
-	1	-	1	24	1
-	-	-	2	Tr	Tr
-	2	1	8	83	1
-	-	-	2	Tr	Tr
-	-	-	6	1	1
-	-	-	8	1	1

Sixymite at California G.
LINE 1 Cont

Age #	2.	3.	OB.	G.	E.	L
EP 97-52	0	27	4	10	4 1/4	18
EP 97-53	0	"	5	12	4 1/4	21
EP 97-54	0	26	8	10	4 1/8	22
EP 97-55	0	"	12	5	4 1/4	21
EP 97-56	0	"	12	2	4 1/4	20
Lodona ridge behind ridge.						
End opp. base line						
Start base canyon line, Aug 20						
EP 97-57	0	9	(1)	3 1/2		13
EP 97-58	0	"	9	(1)	3 1/2	13
EP 97-59	0	22	5	2	3 1/2	10
EP 97-60	0	"	5	-	2 1/2	7
Lodona rise. High behind						
EP 97-61	0	"	5	1	3 1/2	9
EP 97-62	0	"	7	0	3 1/2	10

last hole not drilled. Base of ground. No fossils - no field

1	2	3	4	5	6	7	8	9	10
-	-	-	2f	Tr	Tr				
-	-	-	3rd	Tr	Tr				
-	1	2	7	79	107	86			
-	-	2	5	19	102	8			
-	-	-	-	-	-	-			
-	-	-	-	-	-	-			
-	-	-	-	-	-	-			
-	-	5	7	87	100	88			
-	-	-	1st	Tr	Tr				
-	-	2	16	64	106	87			
-	-	-	1	Tr	Tr				

Shafts dug by Sylvan Fournier
 7/1000 on the bench below
 California Cr. Shaft located
 beside drill holes done by
 Angus Woodhead. Shaft
 number indicates drill
 hole numbers. Shafts are 3 1/2 dia.
 = 9.6 ft³ = 1.066 cu yd

3,100 mg = 1 tray ea.

Shaft	M	G	BR.	Total	#. Pails	Weight of material	Weight of pail	Net wt	Net wt
EP 98-39	—	3 1/2	1 1/2	5 ft	10	67 mg	5000 mg	5000 mg	5000 mg
EP 98-10	1A clay	3 1/2	1	5 1/2 ft	10	25 mg	5000 mg	5000 mg	5000 mg
EP 98-48	—	8 1/2	1 1/2	10 ft	10	12 mg	5000 mg	5000 mg	5000 mg

Trenching done by Syleam Floumit
 on L4 Beach above California Cr.
 7/2000 Trenches dug in old cat
 trenches. Depth set to record material
 only.

$$1 \text{ ft}^3 = 1 \frac{1}{2} \text{ parts}$$

NOTE values are cubic yd.

Trench #	H	B	BR	Total	# of parts	wt mg	wt %	oz/ft ³	oz/yd ³
1	1	5	1	6	19pk = 12.28' 85 mg	0.0027	0.0002	0.005	
2	1	2.5	.5	3	10pk = 6.72' 10 mg	0.00032	0.00008	0.0013	
3	1	7.5	.5	8	2pk = 6.6' Tr				
4	1	10	0	10	6pk = 6.24' 8 mg	0.00026	0.00002	0.0005	
5	1	4	.5	4.5	2	10 mg	0.0014		
6	1	5.5	1	6.5	1.5pk = 9.62' 100 mg	0.006	0.00063	0.017	

No. Bouche Creek
 Date

No.
 Date

No. Hole	Date	Bit	Auger	FWT	Head S. 1/4	Sec	Cor'd	Course	Notes	
<u>NEW LINE 5!</u> <u>UPSTREAM</u> FROM LINE 1 - $\approx 340^\circ$ Sec. hole 17										
90-17 .003	24-89	8"	2 1/2	F _{WET}	12	8	4	24	Gray bedrock Hole $\approx 50'$ from Edge of 1/4 th Hwy on a bench of black sandstone 9' \uparrow "18	
Trace -18	"	"	"	F _{WET}	10	5	2	17	Gray Bedrock 11	
.003-19	"	"	"	F _{WET}	4	ABANDONED AT 8'			" 24 " 18 VERY HARD ROCK	
.19A	"	"	"	F _{WET}	4	9?	?	13	43' from 79 FORCED TO STOP AT 13' - USE OF VERY HARD STONE DRILL BIT AT 15' STOPPED IN 10 SECONDS	
.002-20	25-89	"	"	F _{WET}	5	8'	2'	15	Granite Pt	
ϕ -21	26-89	"	"	F _{WET}	3	6	4	13	Granite Pt	
ϕ -22	"	"	"	F _{WET}	2 1/2	6 1/2	3	12	Granite	
Trace -23	"	"	"	F _{DRY}	3	9	3	15	Hard Black Rock (Limestone or Marble)	
.005-24	"	"	"	F _{DRY}	5	2	5	3	15	Blue-gray Bedrock on to 6' 23
ϕ -25	27-89	"	"	F	8	5	3	16	275' from 24 of Black Bedrock with	

No.
 Date any Hawaii Page

No.
 Date

TK	Date	Ref	Temp	Moist	Silt	Gravel	Bedrock	Total	Bedrock	Comment
TK-1	6-9-90	8"	78° F wet	12	-	4	2	18		ORANGE BROWN BEDROCK
-2	"	"	" F wet	13		3	2	18		SEA WEEB BROWN BEDROCK
-3	7-9-90	"	" F wet	14		3	1	18		Red Blue bed
-4	"	"	" F wet	12 1/2		3 1/2	2	18		Red Blue bed
-	TOO WET!!									
-5	9-9-90	"	" F dry	6		10	2	18		Blue Bedrock
-6	"	"	" F dry	8		10	1	19		V. Hard Blue bed
-7	"	"	" F dry	12		9	2	23		Grey Bedrock
-8	"	"	" F dry	15		5	3	26		ORANGE/RED BEDROCK
-9	"	"	" F dry	5-26 (61.5-4)		4	2	30		Blue bedrock
										Red Blue Bedrock by Grayed

Solr. 5-01 001 TK 3

TK 4

No. BOUCHER CREEK
 Date Page

No.
 Date

Hole #	Date	Bit	Angle	F th Cover	Muck	Silt	Gravel	Bdr	Total	BKTS	COMMENTS
70-1 yd ² Trace	14-8-90	8"	23°	F. Sand	14		4	1	19	4	Grey Siltstone Right at Base of Sand w/ Limit of Ch. 5-100 YDS UPSTREAM OF Silt Muck VERY HARD ROCK
		Long Run	122°			Note 1					
0.033 - 2	"	"	"	F. Sand	8		12	2	22	11	VERY HARD DRILLING
∅ - 3	"	"	"	F. Sand	9'		7'		16	7	VERY HARD DRILLING RESISTANCE
.003 - 4	15-8-90	"	"	F. Sand	6		14	2	22	7	S.B. ↓ 14 1/2'
.002 - 5	"	"	"	F. Sand	4		12	2	18	9	Green Blt
.001 - 6	"	"	"	F. Sand	4		12	2	18		Green Blt
.003 - 7	"	"	"	F. Sand	9		8	3	20		Siltstone Blt
.001 - 8	"	"	"	F. Sand	11		5	2	18		Soft Green Blt
<.001 - 9	"	"	"	F	1		3	8	3	15	n 3' ↓ 50' Lm Creek 3000' W 400' S

No. L.L. Sixty-mile Beach below
 Date Alameda Page

No.
 Date

#	S	D	M	G	E	Z	1	2	3	4	5	6	7	8	9	10	11	12
EP 98-39	0	23 Sept	0	10	10/4	14	-	-	3	4	10.6							
EP 98-40	0	24 Sept	0	10	10/4	14	-	-	1	2	9.8							
EP 98-41	0	"	0	11	11/4	15	-	-	-	2	TV	TV						
EP 98-42	0	"	0	13	13/5	18	-	-	1	2	11.6							
Poor recovery due to collapse																		
EP 98-43	0	25 Sept	3	8	11/4	15	-	-	-	-	-							
EP 98-44	0	"	2	6	8/3	11	-	-	-	-	-							
Poor recovery due to collapse																		
EP 98-45	0	"	1	8	9/9	18	-	-	1	3	11.0							
EP 98-46	0	"	3	10	10/4	17	-	-	-	-	-							
EP 98-47	0	"	5	9	14/6	20	-	-	-	3	TV	TV						
EP 98-48	0	"	3	11	11/5	19	-	-	1	2	13.3							
Poor recovery due to collapse																		
EP 98-49	0	26 Sept	3	14	17/5	22	-	-	1	4	11.0							
EP 98-50	0	"	4	14	18/5	23	No sample - bit + sample lost in hole											

No. Sidgwick L.L. bench below California

Date Page

No.

Date

Page

K	S	D	M	R	B	E	1	2	3	4	mg	wt	unit
EP 98-51	0	26 oct	4	13	11/4	21	1	-	4	2	19.5		.018
EP 98-52	•	28 Sept	9	10	9/5	24	-	-	1	5	Jun		.005
EP 99-53	•	29 Sept	13	8	21/-	23	No sample. Drill broke						
EP 99-54	•	1 Oct	13	10	23/2	25	1	-	-	4	3		.002
EP 99-55	•	2 Oct	20	7	21/3	30	-	-	1	4	7.2		.007
EP 99-100	•	4 Oct	27	3	30/3	33	-	-	2	1	Tr	Tr	Tr
Sidgwick L.L. bench 3 miles below California													
EP 98-56	•	2 Oct	7	5	12/8	20	-	1	1	1	4.9		.004
EP 98-57	•	"	8	4	12/7	19	-	-	-	1	Tr	Tr	Tr
EP 98-58	•	3 Oct	7	4	11/4	15	-	-	-	-	-	-	-
EP 98-59	•	"	6	7	10/3	16	2	-	-	4	5.6		.005
EP 99-60	•	"	4	9	2/3	16	-	-	1	2	27		.002

No. Sitzmike LC bench 2 miles below
 Date California Page

No. _____
 Date _____

	S	S	m	G	B	E	1	2	3	4	M		$\frac{21}{24}$
EP 98-61	o	Oct	3	9	12/3	15	-	-	-	3	IV	IV	
EP 98-62	o	Oct	1	6	7/7	14	-	-	1	2	4	0	1004
EP 98-63	o	"	4	6	10/4	15	-	-	-	4	IV	IV	
EP 98-64	o	"	2	7	9/4	13	-	-	-	5	30		1001
EP 98-65	o	"	3	9	12/3	15	-	-	-	-	-	-	
EP 98-66	o	"	7	9	16/4	20	-	-	1	1	18		1002
↓ 1 mi bench 1 mile above California													
EP 98-67	o	Oct	30	-	-	30							No sample
↑ 200' apart													
EP 98-101	o	"	30	-	-	30							No sample
↓ 300' apart													
EP 98-68	o	"	4	13	11/4	21	-	-	-	2	2		1002
EP 98-69	o	"	7	16	23/4	27	-	-	5	15	10	0	1009
EP 98-102	o	Oct	10	20	30/4	34	-	-	-	3	IV	IV	Old pre-glacial channel

No. 60 mile immediately below
 Date: pipe yard Page

No.
 Date:

#	5	3	M	G	5	≤	1	2	3	4	mg	0.1 yd
EP 99-01	•	23 May	6	9	15/3	18	-	-	2	6	4-5	1004
EP 99-02	•	"	8	7	15/3	18	-	1	4	4	17.7	016
EP 99-03	•	"	5	9	14/4	16	-	-	-	3	Tr	Tr
EP 99-04	•	24 May	7	6	12/4	17	-	-	1	3	1.7	001
EP 99-05A	•	"	5	Abund ⁺ surface water 5'								
05B	•	"	7	6	10/4	17	-	-	-	5	2.9	003
MOVE DOWNSTREAM TO INFILL LINE BELOW DRAIN SLOWLY												
EP 99-06	•	5 June	12	3	15/4	19	-	-	1	3	30	003
EP 99-07	•	"	3	12	15/4	19	-	-	-	9	2.9	003
EP 99-08	•	6 June	5	11	16/4	20	-	1	4	3	23.6	020
EP 99-09	•	"	5	10	15/4	19	-	1	1	1	7.2	006
EP 99-10	•	"	2	3	13/4	19	1	3	1	6	20.9	019

No.
 Date Page

No.
 Date

W	S	D	M	G	B	E	1	2	3	4	MS	GR	XL
EP 99-11	•	11 June	6	9	15	14	19	-	-	4	11	9.7	009
EP 99-12	•	12 June	6	6	?	1?	12	-	-	-	-	-	-
Probable bottom at 12" Abandoned after 1/2 hour													No leadrock
EP 99-13	•	12 June	10	5	15	14	19	-	-	-	1/2	1/2	1/2
1/2 way between 12 and 11.													
~~~~~													
Line extension south of 98-30													
EP 99-14A	•	12 June	3	7	?	1?	10	-	-	1	2	ert	001
Bit stuck in hole Abandoned.													
EP 99-14B	•	13 June	3	8	?	1?	11	-	-	-	2	1/2	1/2
Bottom at 11 ft. Abandoned after 1/2 hour													
EP 99-15	•	13 June	6	9	15	14	19	-	-	1	1	2.9	
EP 99-16	•	13 June	2	14	16	14	20	-	-	1	2	3.5	







No. 60 mile beach  $\frac{1}{2}$  mile Downstream  
 Date from California C. h. B. Page 1

No. ....  
 Date ..... Page .....

#	M	G	B	Total
JF 1	8	2	3	13
2	2	10 $\frac{1}{2}$	1 $\frac{1}{2}$	15
3	15	$\frac{1}{2}$	1 $\frac{1}{2}$	18
4	11	—	1	12
5	—	11	5	16
6a	5	$\frac{1}{2}$	2 $\frac{1}{2}$	8
6b	3	1	4	8
7	—	10	3	13
8	—	13	2	15
9	—	6	2	8
10	—	12	2	14

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100





No. Fish Cr.

Date claim # 6 Page

No.

Date page

H		M	G	B	Total	1	2	3	+	mg	$\frac{0.1}{100}$
1	note 3 = muck	7	1	3M 1	12						✓
2		4	1	1	6						✓
3		5	3	2	10						✓
4		/	12	1	13						✓
5		3	6	1	10						✓
6		6	/	2	8						

No. 60 mile Enchantment ranch

Date R.L. up stream

claim #3 Enchantment

Page

No.

Date

Page

H	M	G	B	Total
1	/	5	1	6
2	7	/	1	8
3	7	/	1	8
4	6	/	1	7
5	8	/	1	9
6	6	2	1	9
7	13	/	1	
8	37	/	1	38

$\frac{37}{38}$

No. Continued

Date .....

Page .....

No. ....

Date .....

#	M	G	B	Toto	
25	—	8	1	9	✓
26	—	11	2	13	✓
27	2	—	3	5	✓
28	11	—	2	13	✓
29	18	—	1	19	✓



No. 60 mile 0.5 miles west of Enclonbut

Date R.L. bench

Page

No.

Date

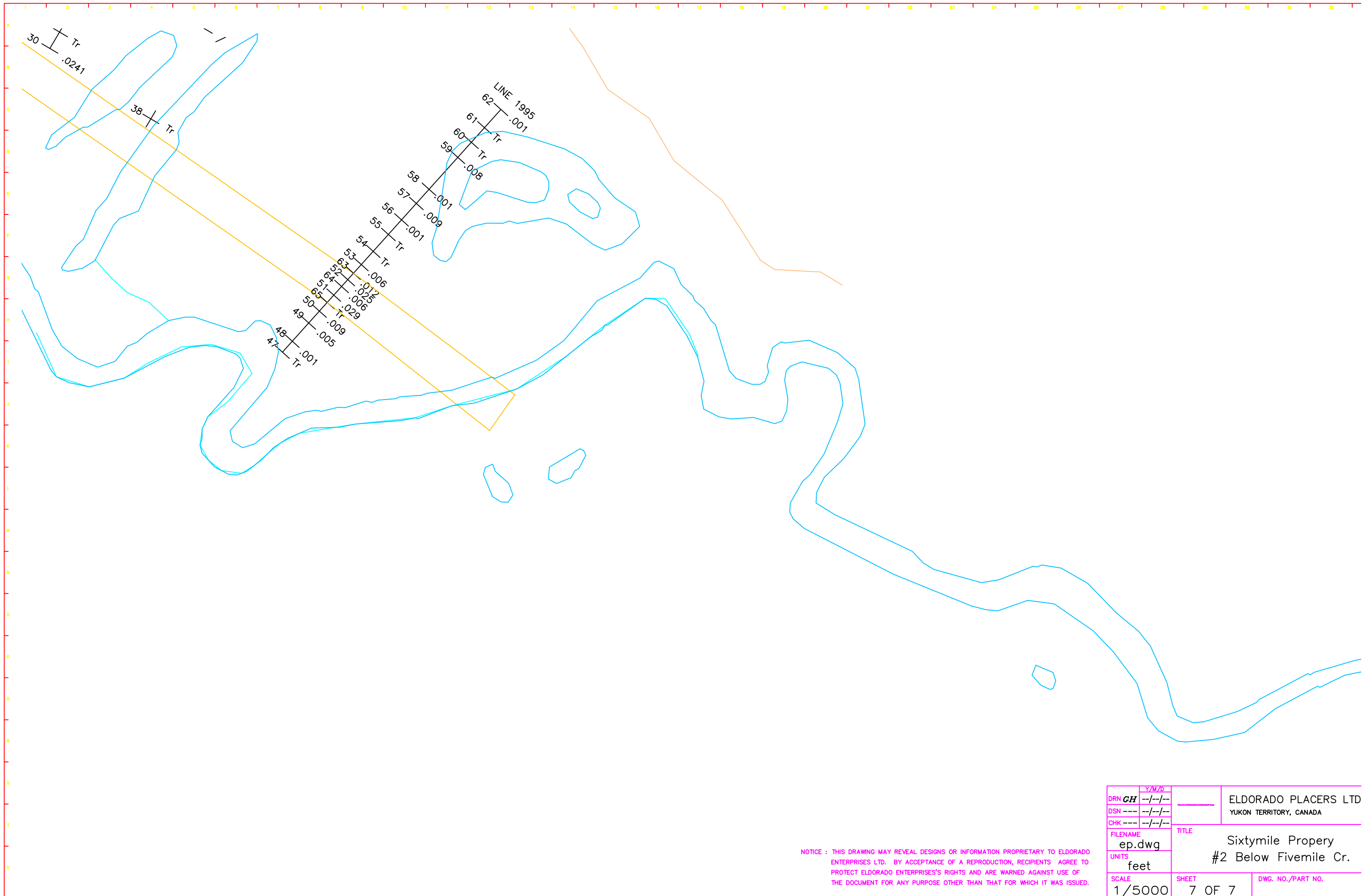
Page

#	M	G	R	Total	
1	7	4	1	12	✓
2	9	$\frac{1}{2}$	$\frac{1}{2}$	10	✓
3	3	4	1	8	
4	7	2	5	14	
5	9	1	3	13	
6	13	—	2	15	
7	14	—	1	15	✓
8	13	—	2	15	✓
9	14	—	1	15	✓
10	17	—	1	18	✓
11	18	—	1	19	✓
12	9	—	1	10	✓
13	26	—	2	28	✓
14	3	—	2	5	✓
15	7	—	2	9	✓
16	8	—	1	9	✓
17	10	—	1	11	✓
18	9	—	1	10	✓
19	4	—	2	6	
20	5	—	1	6	
21	11	—	1	12	
22	4	—	1	5	✓
23	4	—	1	5	✓
24	4	—	4	8	✓


**ELDORADO PLACERS LTD**

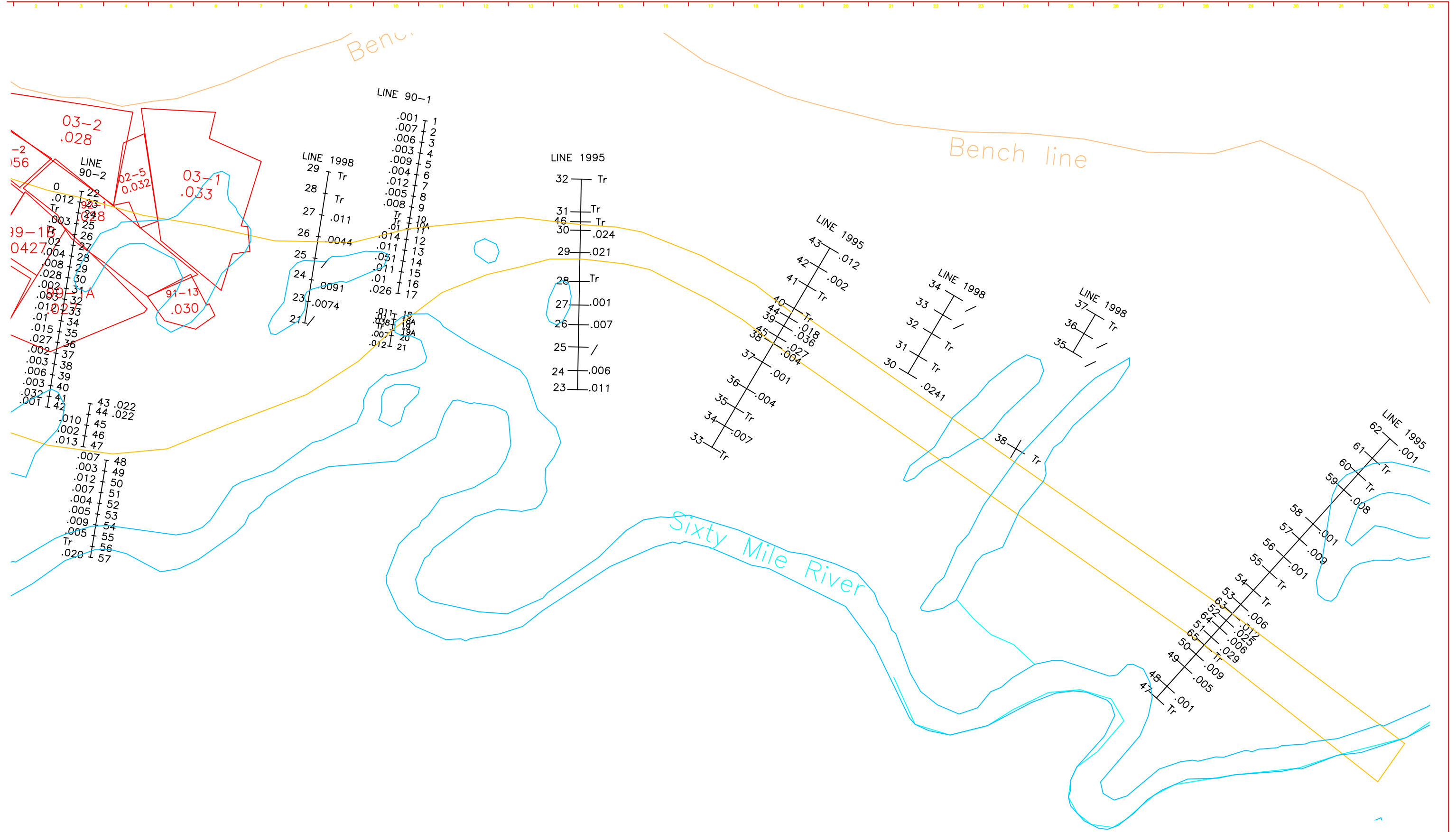
YEAR	TOTAL BLACK MUCK STRIPPED	TOTAL THAWED GRAVEL STRIPPED	TOTAL CU YDS SLUICED	TOTAL BDROCK YDS CLEANED	SLUICE HRS	SLUICE DAYS	AVERAGE PRICE OF GOLD
1992	154,878	116,772	138,909	52,954	1,120	90	\$420
1993	203,518	358,945	273,872	127,000	1,951	131	\$474
1994	428,416	396,311	326,891	148,943	1,693	121	\$530
1995	528,018	439,192	303,586	144,806	1,705	134	\$534
1996	900,077	516,189	233,738	127,472	1,587	102	\$521
1997	145,325	240,000	254,073	97,200	1,514	124	\$464
1998	95,310	189,518	130,114	68,559	864	128	\$441
1999	230,900	108,444	148,363	76,573	855	109	\$405
2000	131,303	206,826	130,760	68,942	930	116	\$430
2001	171,000	100,484	73,704	34,200	600	90	\$490
2002	221,745	159,281	118,970	55,034	928	117	\$496
2003	156,826	225,716	124,302	65,220	873	104	\$509
2004	160,162	145,641	177,444	64,617	1,060	117	\$526
2005							
Avg 1998-present	166,749	162,273	129,094	61,878	873	112	\$471
All avg	281,050	257,212	191,318	89,881	1,213	116	\$485

YEAR	TOTAL CU YDS HANDLED	SLUICE HRS/DAY	BDROCK YDS CLEANED/HR	BDROCK YDS CLEANED/ CU YDS HANDLED	STRIP TO SLUICE RATIO	COST PER BEDROCK YD CLEANED	COST PER CU YD SLUICED	COST PER CU YD HANDLED	OUNCES PER BDROCK YD
1992	410,559	12.4	47.3	0.129	1.96	\$25.58	\$9.75	\$3.30	0.0407
1993	836,335	14.9	65.1	0.152	2.05	\$12.00	\$5.56	\$1.82	0.0367
1994	1,151,618	14.0	88.0	0.129	2.52	\$12.37	\$5.64	\$1.60	0.0322
1995	1,270,796	12.7	84.9	0.114	3.19	\$14.18	\$6.76	\$1.62	0.0418
1996	1,650,004	15.6	80.3	0.077	6.06	\$19.91	\$10.86	\$1.54	0.0500
1997	639,398	12.2	64.2	0.152	1.52	\$18.56	\$7.10	\$2.82	0.0386
1998	414,942	6.8	79.4	0.165	2.19	\$9.56	\$5.04	\$1.58	0.0247
1999	487,707	7.8	89.6	0.157	2.29	\$9.71	\$5.01	\$1.52	0.0295
2000	468,889	8.0	74.1	0.147	2.59	\$11.37	\$5.99	\$1.67	0.0264
2001	345,188	6.7	57.0	0.099	3.68	\$18.11	\$8.40	\$1.79	0.0625
2002	499,996	7.9	59.3	0.110	3.20	\$12.05	\$5.58	\$1.33	0.0366
2003	506,844	8.4	74.7	0.129	3.08	\$14.03	\$7.36	\$1.80	0.0321
2004	483,247	9.1	61.0	0.134	1.72	\$16.03	\$5.84	\$2.14	0.0329
2005									
Avg 1998-2004	458,116	7.8	70.7	0.134	2.68	\$12.98	\$6.17	\$1.69	0.0350
All avg	705,040	10.5	71.1	0.130	2.77	\$14.88	\$6.84	\$1.89	0.0373



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DRN <b>GH</b>	Y/M/D		ELDORADO PLACERS LTD YUKON TERRITORY, CANADA
DSN ---	---		
CHK ---	---		
FILENAME ep.dwg	TITLE Sixtymile Property #2 Below Fivemile Cr.		
UNITS feet	SCALE 1/5000	SHEET 7 OF 7	DWG. NO./PART NO.



DRN	CH	Y/M/D	---	ELDORADO PLACERS LTD YUKON TERRITORY, CANADA
DSN	---	---		
CHK	---	---		
FILENAME	ep.dwg			TITLE
UNITS	feet			Sixtymile Property #1 Below Fivemile Cr.
SCALE	1/5000	SHEET	6 OF 7	DWG. NO./PART NO.
				REV.
				9/04

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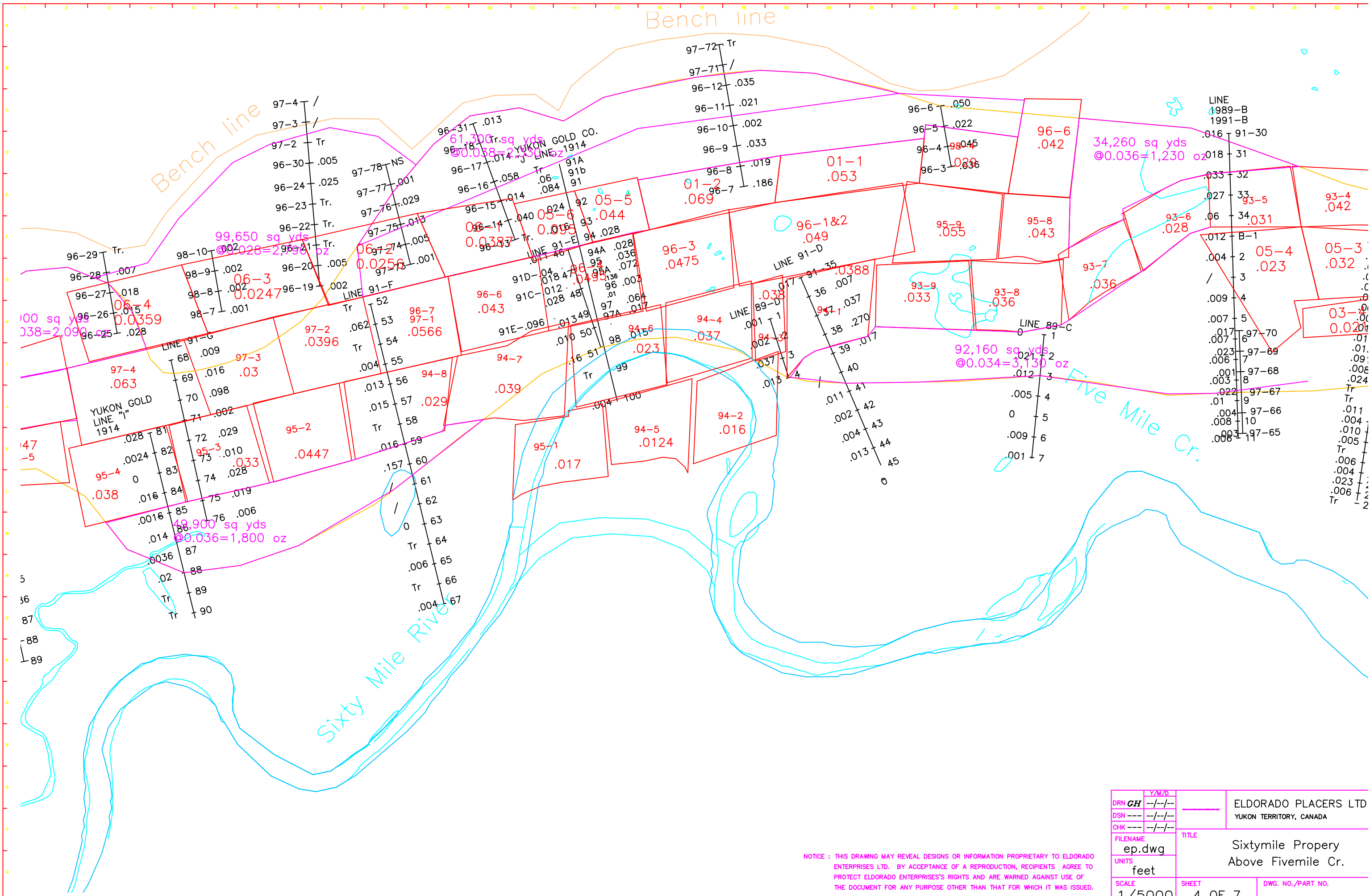


Bench line

Bench line

Five Mile Cr.

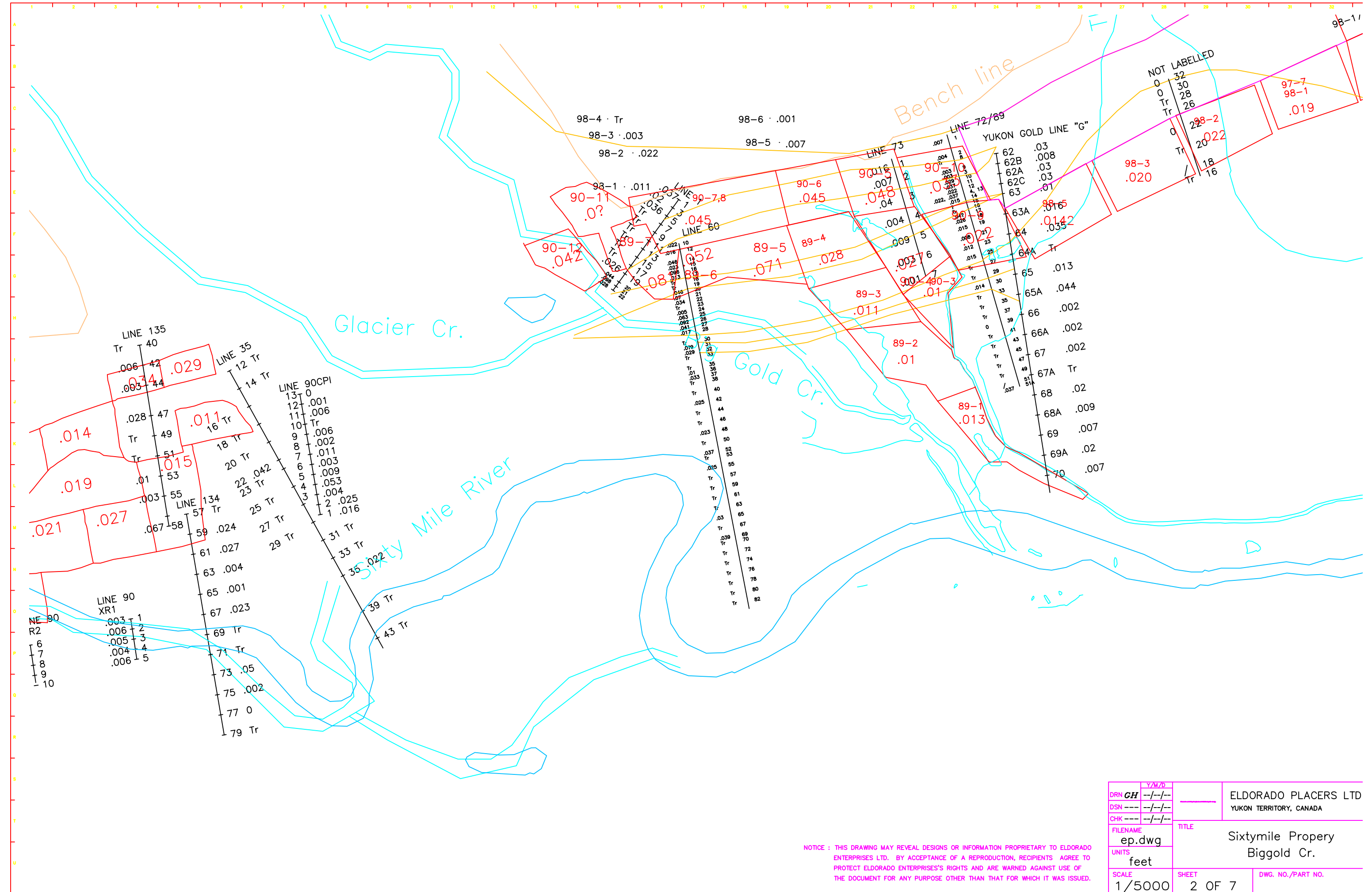
Sixty Mile River



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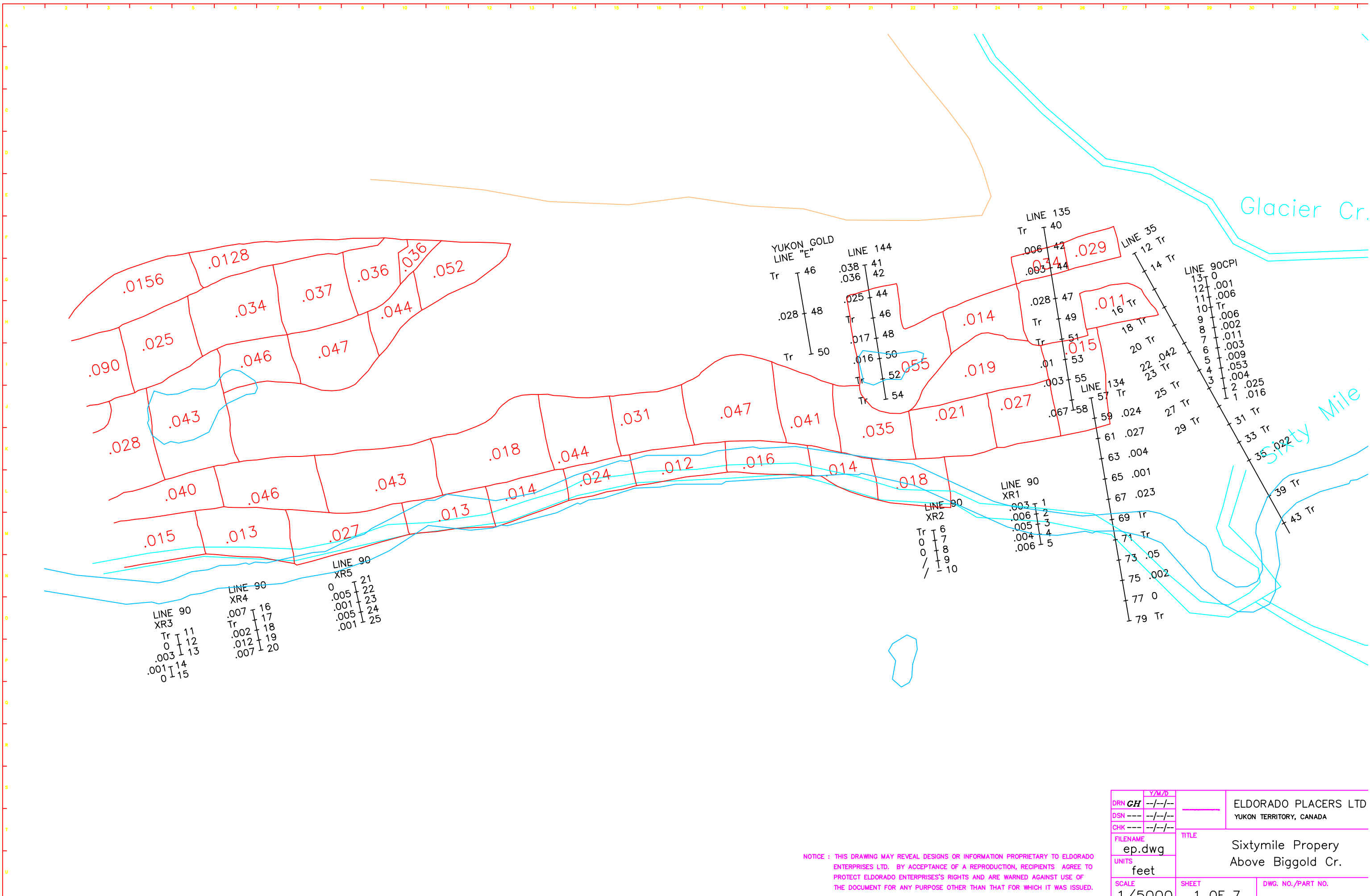
DRN CH	Y/M/D	ELDORADO PLACERS LTD YUKON TERRITORY, CANADA
DSN ---	---	
CHK ---	---	
FILENAME ep.dwg	TITLE Sixtymile Property Above Fivemile Cr.	
UNITS feet		
SCALE 1/5000	SHEET 4 OF 7	DWG. NO./PART NO.





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DRN	GH	Y/M/D		ELDORADO PLACERS LTD YUKON TERRITORY, CANADA
DSN	---	---		
CHK	---	---		
FILENAME	ep.dwg			TITLE
UNITS	feet			Sixtymile Property Biggold Cr.
SCALE	1/5000	SHEET	2 OF 7	DWG. NO./PART NO.



LINE 90  
XR3  
Tr 11  
0 12  
.003 13  
.001 14  
0 15

LINE 90  
XR4  
Tr 16  
.007 17  
.002 18  
.012 19  
.007 20

LINE 90  
XR5  
0 21  
.005 22  
.001 23  
.005 24  
.001 25

LINE 90  
XR2  
Tr 6  
0 7  
0 8  
/ 9  
/ 10

LINE 90  
XR1  
.003 1  
.006 2  
.005 3  
.004 4  
.006 5

YUKON GOLD  
LINE "E"  
Tr 46  
.028 48  
Tr 50

LINE 144  
Tr 41  
.038 42  
.036 44  
Tr 46  
.025 48  
Tr 50  
.017 52  
Tr 54

LINE 135  
Tr 40  
006 42  
.003 44

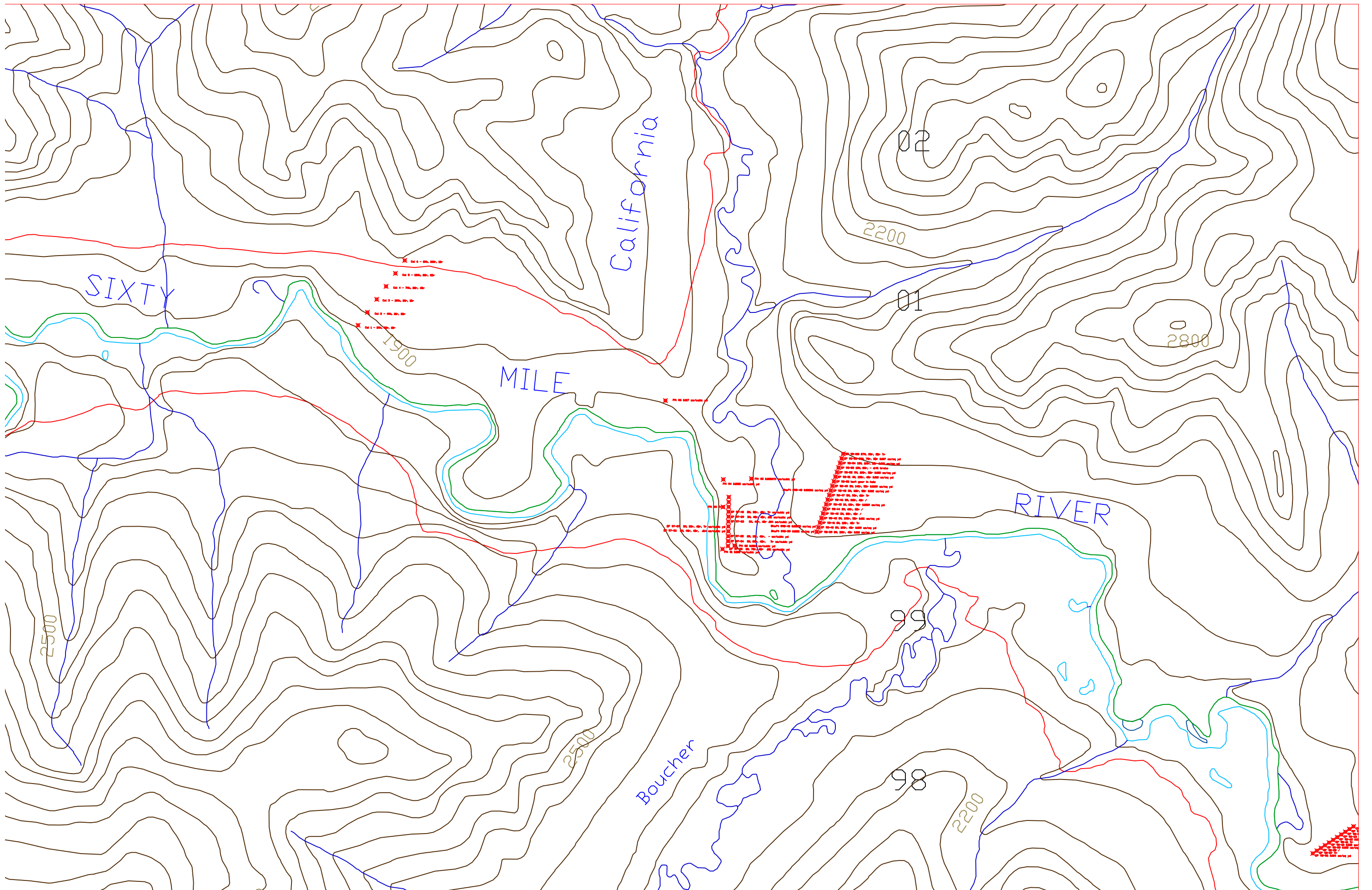
LINE 35  
Tr 12  
14 Tr

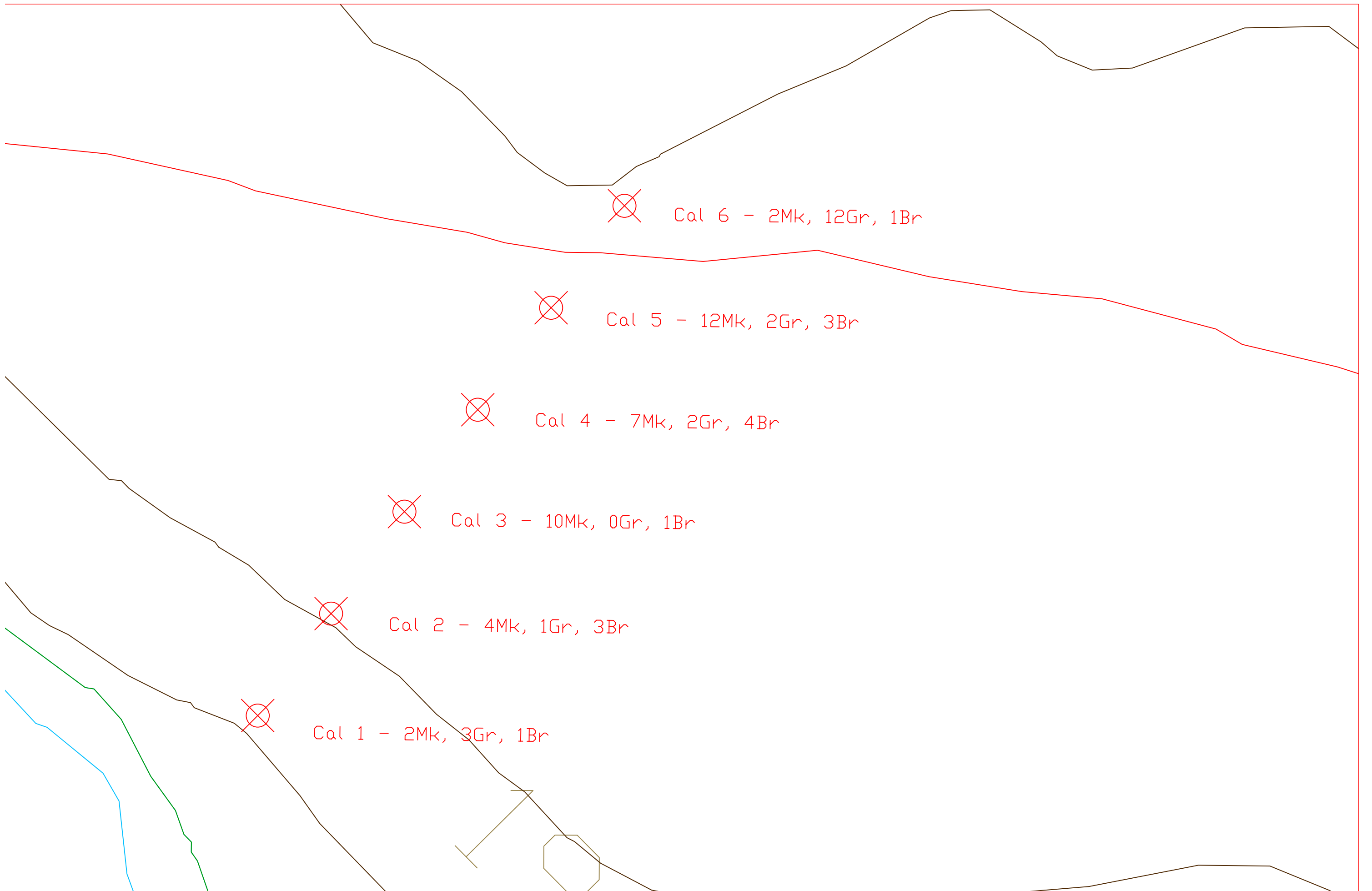
LINE 90CPI  
13 0  
12 .001  
11 .006  
10 Tr  
9 .006  
8 .002  
7 .011  
6 .003  
5 .009  
4 .053  
3 .004  
2 .025  
1 .016

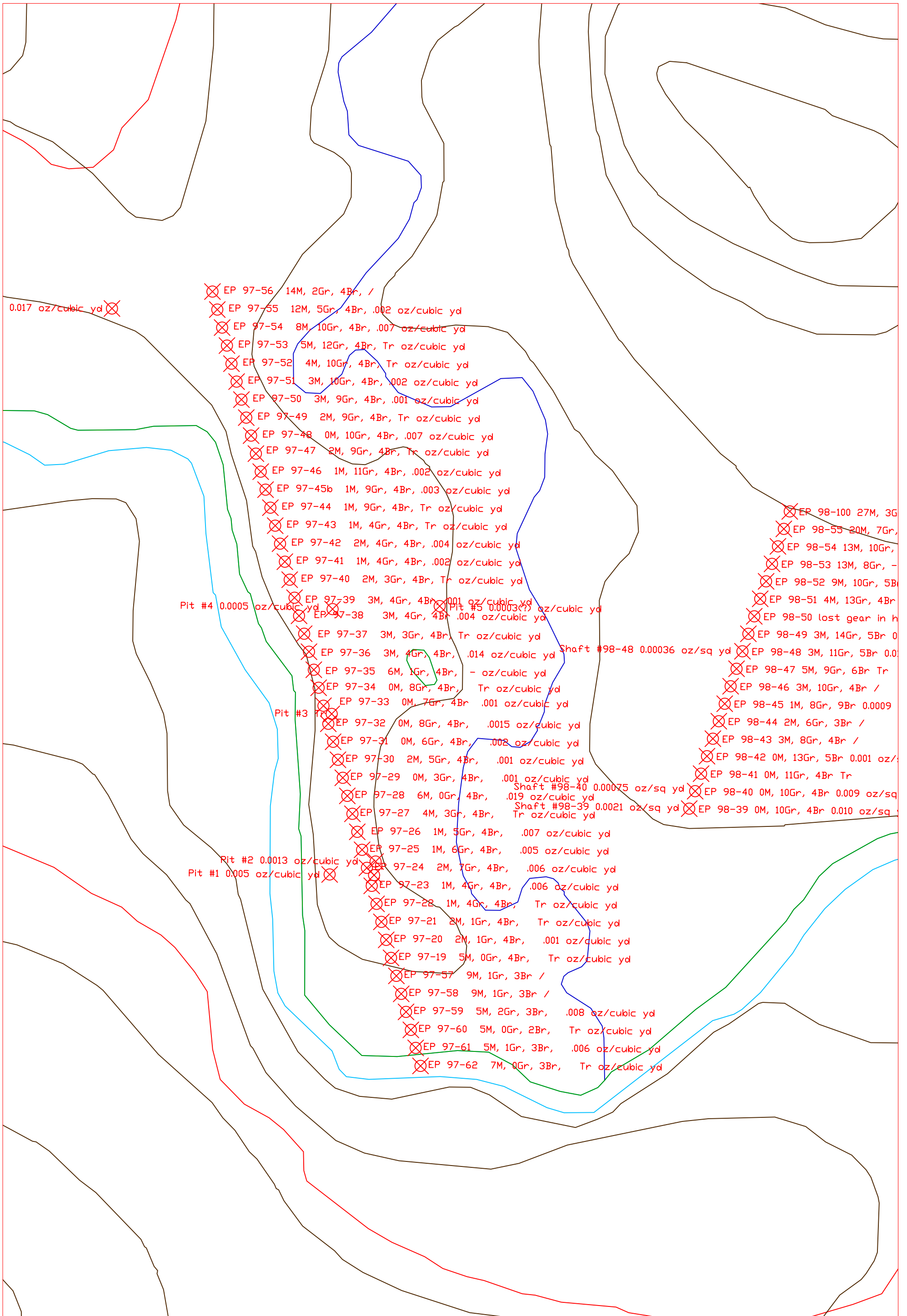
NOTICE : THIS DRAWING MAY REVEAL DESIGNS OR INFORMATION PROPRIETARY TO ELDORADO ENTERPRISES LTD. BY ACCEPTANCE OF A REPRODUCTION, RECIPIENTS AGREE TO PROTECT ELDORADO ENTERPRISES'S RIGHTS AND ARE WARNED AGAINST USE OF THE DOCUMENT FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS ISSUED.

DRN CH	Y/M/D		ELDORADO PLACERS LTD
DSN ---	---/---/---		YUKON TERRITORY, CANADA
CHK ---	---/---/---		
FILENAME	TITLE		
ep.dwg	Sixtymile Property		
UNITS	Above Biggold Cr.		
feet			
SCALE	SHEET	DWG. NO./PART NO.	
1/5000	1 OF 7		





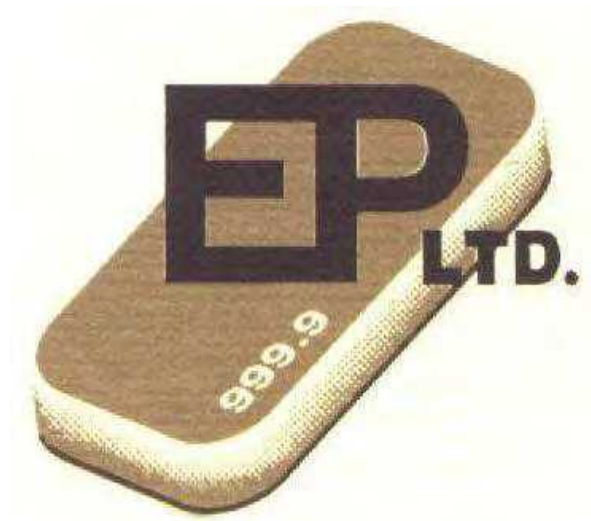




- EP 97-56 14M, 2Gr, 4Br, /
- EP 97-55 12M, 5Gr, 4Br, .002 oz/cubic yd
- EP 97-54 8M, 10Gr, 4Br, .007 oz/cubic yd
- EP 97-53 5M, 12Gr, 4Br, Tr oz/cubic yd
- EP 97-52 4M, 10Gr, 4Br, Tr oz/cubic yd
- EP 97-51 3M, 10Gr, 4Br, .002 oz/cubic yd
- EP 97-50 3M, 9Gr, 4Br, .001 oz/cubic yd
- EP 97-49 2M, 9Gr, 4Br, Tr oz/cubic yd
- EP 97-48 0M, 10Gr, 4Br, .007 oz/cubic yd
- EP 97-47 2M, 9Gr, 4Br, Tr oz/cubic yd
- EP 97-46 1M, 11Gr, 4Br, .002 oz/cubic yd
- EP 97-45b 1M, 9Gr, 4Br, .003 oz/cubic yd
- EP 97-44 1M, 9Gr, 4Br, Tr oz/cubic yd
- EP 97-43 1M, 4Gr, 4Br, Tr oz/cubic yd
- EP 97-42 2M, 4Gr, 4Br, .004 oz/cubic yd
- EP 97-41 1M, 4Gr, 4Br, .002 oz/cubic yd
- EP 97-40 2M, 3Gr, 4Br, Tr oz/cubic yd
- EP 97-39 3M, 4Gr, 4Br, .001 oz/cubic yd
- EP 97-38 3M, 4Gr, 4Br, .004 oz/cubic yd
- EP 97-37 3M, 3Gr, 4Br, Tr oz/cubic yd
- EP 97-36 3M, 4Gr, 4Br, .014 oz/cubic yd
- EP 97-35 6M, 1Gr, 4Br, - oz/cubic yd
- EP 97-34 0M, 8Gr, 4Br, Tr oz/cubic yd
- EP 97-33 0M, 7Gr, 4Br, .001 oz/cubic yd
- EP 97-32 0M, 8Gr, 4Br, .0015 oz/cubic yd
- EP 97-31 0M, 6Gr, 4Br, .002 oz/cubic yd
- EP 97-30 2M, 5Gr, 4Br, .001 oz/cubic yd
- EP 97-29 0M, 3Gr, 4Br, .001 oz/cubic yd
- EP 97-28 6M, 0Gr, 4Br, .019 oz/cubic yd
- EP 97-27 4M, 3Gr, 4Br, Tr oz/cubic yd
- EP 97-26 1M, 5Gr, 4Br, .007 oz/cubic yd
- EP 97-25 1M, 6Gr, 4Br, .005 oz/cubic yd
- EP 97-24 2M, 7Gr, 4Br, .006 oz/cubic yd
- EP 97-23 1M, 4Gr, 4Br, .006 oz/cubic yd
- EP 97-22 1M, 4Gr, 4Br, Tr oz/cubic yd
- EP 97-21 2M, 1Gr, 4Br, Tr oz/cubic yd
- EP 97-20 2M, 1Gr, 4Br, .001 oz/cubic yd
- EP 97-19 5M, 0Gr, 4Br, Tr oz/cubic yd
- EP 97-57 9M, 1Gr, 3Br, /
- EP 97-58 9M, 1Gr, 3Br, /
- EP 97-59 5M, 2Gr, 3Br, .008 oz/cubic yd
- EP 97-60 5M, 0Gr, 2Br, Tr oz/cubic yd
- EP 97-61 5M, 1Gr, 3Br, .006 oz/cubic yd
- EP 97-62 7M, 0Gr, 3Br, Tr oz/cubic yd
- EP 98-100 27M, 3Gr, /
- EP 98-55 20M, 7Gr, /
- EP 98-54 13M, 10Gr, /
- EP 98-53 13M, 8Gr, -
- EP 98-52 9M, 10Gr, 5Br
- EP 98-51 4M, 13Gr, 4Br
- EP 98-50 lost gear in h
- EP 98-49 3M, 14Gr, 5Br 0
- EP 98-48 3M, 11Gr, 5Br 0.0
- EP 98-47 5M, 9Gr, 6Br Tr
- EP 98-46 3M, 10Gr, 4Br /
- EP 98-45 1M, 8Gr, 9Br 0.0009
- EP 98-44 2M, 6Gr, 3Br /
- EP 98-43 3M, 8Gr, 4Br /
- EP 98-42 0M, 13Gr, 5Br 0.001 oz/
- EP 98-41 0M, 11Gr, 4Br Tr
- EP 98-40 0M, 10Gr, 4Br 0.009 oz/sq
- EP 98-39 0M, 10Gr, 4Br 0.010 oz/sq
- Shaft #98-48 0.00036 oz/sq yd
- Shaft #98-40 0.00075 oz/sq yd
- Shaft #98-39 0.0021 oz/sq yd
- Pit #4 0.0005 oz/cubic yd
- Pit #5 0.0003(?) oz/cubic yd
- Pit #3
- Pit #2 0.0013 oz/cubic yd
- Pit #1 0.005 oz/cubic yd

EP 98-66 0.002 oz/sq yd  
EP 98-65 /  
EP 98-64 0.001 oz/sq yd  
EP 98-63 Tr  
EP 98-62 0.004 oz/sq yd  
EP 98-61 Tr  
EP 98-60 0.002 oz/sq yd  
EP 98-59 0.005 oz/sq yd  
EP 98-58 /  
EP 98-57 Tr  
EP 98-56 0.004 oz/sq yd





**EXPLORATION OF LOW GRADE ALLUVIALS  
IN THE SIXTYMILE AREA OF YUKON**

**BY**

**GREG HAKONSON**

**FOR**

**ELDORADO PLACERS LTD.**

# **EXPLORATION OF LOW GRADE ALLUVIALS IN THE SIXTY MILE AREA**

## **Geological description**

The Eldorado Placers Ltd. property is located on the Sixty Mile River in the Yukon Territory. It starts at the Alaska-Yukon border and continues down the Sixty Mile to just below Fifty Mile Creek, a distance of approximately fifty miles, with the exception of a six and one-half mile section from Bedrock Creek to Big Gold Creek. (latitude 64°, longitude 141°)

The valley is an old broad valley with some low level terraces and some signs of local glaciation. Overburden tends to be fairly shallow in the valley bottom but deeper on the benches and in areas of the valley floor where the benches have been eroded into the valley. Permafrost is prevalent with thawed ground generally confined adjacently to the river. There is good stratification and usually clear definition between the overlaying black muck and the gravel.

The muck layer averages two yards deep, but can be as deep as ten yards. The gravels are well rounded, loosely packed and relatively small in size, with 99% smaller than eight inches. Gravel depth averages four yards.

## **History**

Eldorado Placers commenced production in the Sixty Mile in 1986. Utilizing a triple run sluice box it cleaned up the reserve that was left by previous mining operations around the mouth of Big Gold Creek. Radioactive tracer testing of the triple run box done by Randy Clarkson convinced us to build a more sophisticated sluice plant as the results indicated recoveries of only 75%. The new recovery plant that utilized the Super Sluice concept of moving fingers protruding through grizzly bars increased productivity by 65%. Repair and maintenance on this plant proved to be unbearably high, and because it was only capable of screening to minus 3/4 of an inch recovery suffered as throughput increased. Radioactive tracer testing again done by Randy indicated recoveries in the range of 96%.



In 1989 facing the obvious fact that the reserve we were on was running out, we embarked on an exploratory drill program on a two and one-half mile section of virgin ground immediately down stream of Big Gold Creek. At the same time we started drawing up plans for a new recovery plant. We were after something that utilized "off the shelf" technology from the gravel industry. We wanted higher throughput, lower wear rates and better recovery; and therefore decided on a screen deck. The exploratory drill program in 1989 which consisted of 36 holes indicated that more drilling was required. During 1990-91 we drilled another 235 holes.

At the end of this drill program, triangulations of the drilling indicated values that were right around our break even point of about .015 ounces a square yard, or about \$1.07 a cubic yard from the grass roots (At Can. \$500/oz) where we wanted to start. They also indicated a dramatic increase in an upstream direction, but the pay did not pick up sufficiently until the extreme upper end of the property. In the end analysis, the drilling only seemed to help us locate the better pay in a poor pay-streak. It was decided to move the old triple run box onto the new reserve along with a pump and an old D8H cat, in order to sluice a test cut to quantify the drilling.

The test cut produced a value of .027 oz/sq yd. Based on the results of the test cut, we made two decisions. The first was that we would move onto the new reserve and the second was to build the new recovery plant. This second decision was not made due to the obvious failings of the finger deck plant. We based our decision on the fact that the ground values were not high, causing large throughput and high recovery to be the key to our profitability. The move to the new reserve took place in October of 1991 and stripping commenced immediately.

Design work was completed for the new plant during the winter of 1991-92 and the box was built on site in the following spring and summer, being put into service in August of 1992. By mid 1993 throughput had increased over the previous plant by about 50%, and radioactive tracer testing had shown a recovery of 100%.



## **Drilling and Associated Problems**

There are a lot of problems associated with drilling in the Klondike region. Typical problems such as marshy terrain deeply incised creek beds etc. are easily addressed with the low ground pressure type vehicles such as Nodwells. We mounted our B31 drill on the back of an R110 Nodwell, and fixed two outrigger hydraulic cylinders on the corners in order to level the rear of the machine from left to right. We also modified the drill derrick so that it could be pivoted through about 15 degrees front to back. This now enabled the drill to be positioned fairly plumb no matter how the Nodwell was stationed, and so eliminated problems associated with drilling holes on an angle.

The frozen nature of the muck overburden and the gravels proved to be a more difficult problem to overcome. Drill bits that were designed for muck worked well until they encountered anything that was slightly harder, such as thin layers of frozen silts or sands, then they disintegrated. Bits that were designed for gravel tended to "claypot" or plug up almost immediately when used on the frozen mud. This meant that it was necessary to use a muck bit until something hard was encountered. We then had to pull all the flighting, change bits, and go back down the hole; often to find that the harder layer was a bed of silt or sand and more muck was underneath. This meant once again pulling the flighting in order to change bits. Eldorado Placers designed a number of various bits until it came up with one that was rugged enough to handle the gravel and bedrock but could cut through the frozen muck quickly enough that it would not thaw and claypot. This new type of bit design enabled a hole to be drilled in one set, without pulling the flights until the hole was complete.

Another problem associated with the drill bit was the fact that they were not built to be easily maintained in the field. The main problem being that the pilot part of the bits was welded in place, and when the carbide edges broke off, the bit had to be sidelined until the pilot could be torched off and a new one welded on. Designing the bits to have thread-in pilots greatly increased the usability of the bits, and meant that fewer bits were required as pilots could be changed in the field.

Maintaining auger diameters is extremely important in getting consistent drill



results. As augers wear and their diameters get smaller, they lose more material to the side wall and so retrieve a smaller sample. We built a simple gauge so that the driller would be able to measure the augers without any hassle and determine when they were due for build up. Auger maintenance is the largest time consumer of a drill program. During the 1990 and 1991 drill seasons, our welders spent about one out of every three days on auger maintenance. Lead augers usually lasted us about 60 feet, at which point they would be pulled out of the string and brought into the shop to be rebuilt. We welded 3/8 inch round stock on the underside of the flighting, at the outer edge. This gave us about 5/8 of an inch of width to apply hard surfacing, and greatly increased auger life.

### **Evaluating the Drilling**

As previously stated, the drilled values indicated that the reserve was not going to be viable. Additional information on the reserve was found in the form of an old map from the 40's which indicated that four lines had been drilled and fourteen shafts sunk on the property. The drilling showed similar results to what we had obtained, but some of the shafts indicated somewhat higher values. Further information came to light from Angus Woodsend of Goundex Exploration Co., this being a very old drill report from 1914. The Yukon Gold Company drilled a series of lines on the property in the hopes of proving up a report, from the then current claim holders, that shafting indicated dredging values. Interestingly, the drilling once again gave values that would not be viable, contrary to the shafting.

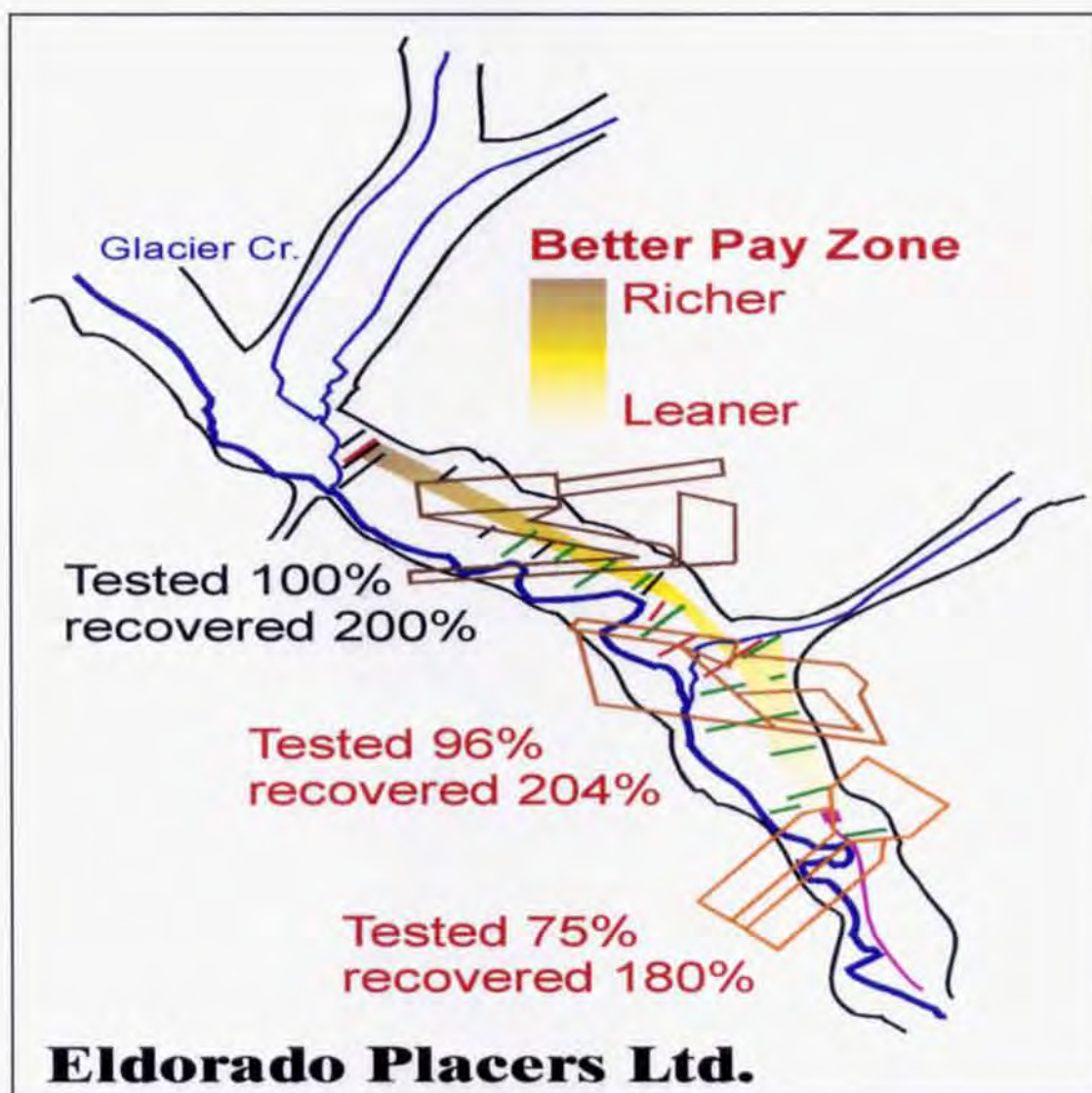
Reviewing all the information that I had indicated that the ground was indeed not going to be viable, but I had a study that was done in the 40's that showed as the values in the ground dropped, the accuracy of the drilling dropped as well. The study did not cover ground with values as low as I was seeing, but through some extrapolation I figured the drilling on this property could be undervalued by an error as much as 100%. The shafting certainly appeared to give higher values than the drilling. I wondered if the shafting values were the true values.

The completion of the test cut verified that a high drill error factor was indeed the case. The test, utilizing a sluice box with only 75% recovery, showed that

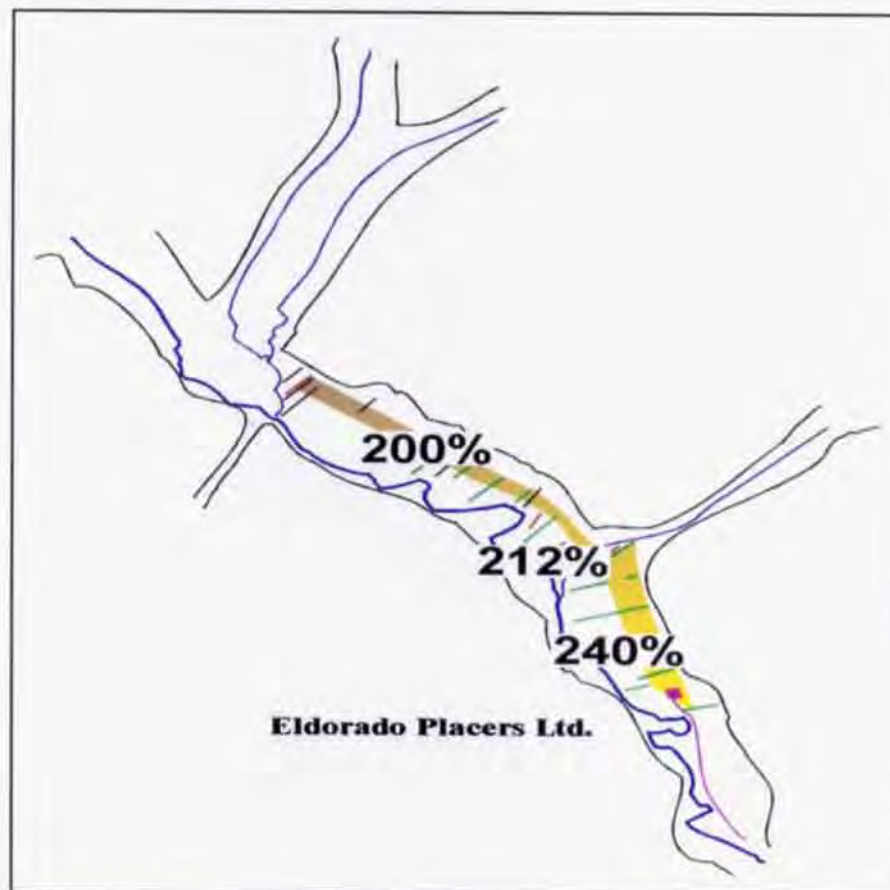


the drilling was 180% under valued. In 1992 when we were in full production on the new reserve, using the finger deck recovery plant, our recovery was 204% of the drill values.

Our average error factor calculated over the last four years to present, while utilizing our screen deck plant, came in at exactly 200%. This figure was based on 1,144,000 bank cubic yards of material sluiced during that time frame.



As placer values tend to weaken downstream of the source, and indeed that is the case on this reserve, it would be reasonable to assume that the drilling error would increase proportionally. This may account for the fact that the triple run box that operated at the extreme lower end of the reserve, although only recovering approximately 75%, produced a drilling error of 180%. Accounting for the 25% losses gives an adjusted value of 240%. The finger deck, operating on the middle third of the reserve, with recoveries of 96% showed a drilling error of 204%. With the 4% losses calculated in, this brings the drill error up to 212%. The screen deck plant having 100% recoveries, operating on the top end of the reserve, indicates a 200% drill error factor. These calculations seem to show quite convincingly that the drilling error increases dramatically as ground values drop off.





## Conclusions

With rapid depletion of the richer placer reserves in the Yukon more attention has to be paid to the low grade deposits. Many of these properties when drilled, give less than favourable results, and are often abandoned. Evaluating potential placer deposits by drilling is at best extremely difficult. Everyone is aware of the potential problems that occur when drilling properties known for coarse gold. However, I believe that few people are aware of the difficulty in assessing drill results from a low grade deposit. The relationship between ground values and drill accuracy is not a scientifically tested and proven fact, but the findings at the Eldorado Placers property give solid evidence that drill error increases with declining ground values. The error factor for drilling is a reality, and will play an ever increasing role as we shift from high grade to low grade deposits.

Although Eldorado Placers drilled 358 holes for an accumulated total of 7,898 feet, the drilling itself was not sufficient to prove the ground up. It was the bulk sampling in the form of the test cut that proved the property viable. Even though the drilling did not fulfill its primary function, it did give good indications as to where the "better" pay was to be found. When deciding where to put in the test cut we were able to pick a spot that was on that better pay, and in a good position to establish a bedrock drain that would service the entire property should it prove out. After the test cut was done, and the decision to move onto the property made, the drilling enabled us once again to pick the better part of the pay zone in which to start our stripping, and gave us direction for the future operation.

It cost us about \$80,000 to purchase the R110 and the Mobile B31 drill, and our total O & M for the entire drill program was \$200,305 ( \$25.36 per foot ). If we had relied only on the results of the drilling, and not followed up with a test pit, we would have walked away from a reserve that has now proven viable. More work has to be done on the evaluation of testing done on these low grade reserves than on richer properties. Efficiencies in materials handling and gold recovery has to be maximized as well in order to mine them economically. With profit margins getting thinner and thinner, more regulations adding more costs, the old way of doing things isn't good enough.



Keeping abreast of and embracing research and development that have taken place in recent years is a must if a company wants to continue placer mining in the Yukon and stay profitable. There are literally billions of yards of low grade alluvials in the Yukon, a lot of it will prove to be profitable with current technologies and more will prove profitable as new technologies emerge.

Presented by Greg Hakonson

Eldorado Placers Ltd  
mining photos 1991-2005





















**TESTING & MINING LOW GRADE  
HIGH VOLUME PLACER ALLUVIALS  
ON THE SIXTY MILE RIVER IN  
CANADA'S YUKON TERRITORY**

**By  
Greg Hakonson**

# TESTING & MINING LOW GRADE HIGH VOLUME PLACER ALLUVIALS ON THE SIXTY MILE RIVER IN CANADA'S YUKON TERRITORY

by Greg Hakonson

## Brief Geologic Description

The Eldorado Placers Ltd. mine site is located on the Sixty Mile River, Yukon Territory, Canada, at latitude 64° longitude 141°.



The Sixty Mile alluvials can be characterized with the alluvials of the famous Klondike region as both are old erosional deposits that were not glaciated and remained intact through the last great ice age. This has produced good stratification and quite often clean definition between the overlying "black muck", peat and humus, and the gravels. This is more pronounced in the lower reaches of the tributary creeks, and the main watercourse.



The main valley of the Sixty Mile is relatively shallow. Gravel depths rarely exceed four metres while the overlying black muck can reach depths of ten metres in outflow deltas, but generally average about two metres. Gravels are well rounded, loosely packed and relatively small in size, with 99% less than twenty centimetres in diameter. There is very little clay present, certainly less than 5% by volume. The "bedrock" or country rock is igneous and metamorphic. The valley floor is often laced with veins of galena and/or pyrite, ranging from a few centimetres to a metre or more wide. Cinnabar, topaz, rutile and magnetite are also commonly found in the placer concentrates.

Terracing is well defined, having an average height of about twenty metres in the main valley and remaining intact to some degree for the entire length of the river. The width of the valley floor at the height of the terraces ranges from eight hundred to thirteen hundred metres, whereas the width of the present valley floor ranges from eight hundred metres down to canyons as narrow as eighty metres. The average gradient of the valley floor at this mine site varies from less than .5% to .75%. The entire deposit is permanently frozen with the exception of a narrow strip of ground associated with the present river bed.





### Testing and Evaluating the Sixty Mile River

There are many problems associated with testing a placer reserve. These problems can often be aggravated by local conditions. The situation Eldorado Placers faced was a very low grade deposit covered by black muck, all of which was permanently frozen. Summer surface thaw created a potential nightmare for travel.



Utilizing a Nodwell R110 with a deck mounted Mobile eight inch auger drill, extensive drilling was able to be carried out with relative ease. Over two four-month periods, three hundred holes averaging seven metres deep were drilled by two men.

Serious problems were encountered in drilling as there were no suitable drill bits available that could drill frozen muck as well as frozen gravel. A series of bits were designed and built by Eldorado Placers that culminated in a multi-use bit that could drill frozen muck without "clay potting", and could also drill the concrete hard gravels and bedrock. Extensive wear to the outer edges of the auger flights was arrested by welding one centimetre round stock onto the under side of the flights, and hard-surfacing the now much larger surface.



Drill samples were processed with a Prospector II built by Goldfields Engineering of Provo, Utah, U.S.A. The Prospector II is a small, portable test plant capable of handling about one cubic metre per hour. It has a screened vibrating deck with an eccentric drive and it requires a one and one-half inch water pump.

The provided recovery mat and riffles were inadequate for processing drill samples, so were replaced with rough-top conveyor belting. Rough top belting is easily cleaned, thus guaranteeing no cross contamination of the drill samples. The recovered concentrate was panned down, and the remaining concentrate cleaned with acid to allow the gold to be removed with mercury. The mercury was then dissolved using nitric acid and the remaining gold weighed.



A formula that takes into consideration the diameter of the drill bit, the smaller diameter of the flights, and so the amount of material lost to the sidewalls, was used to calculate the amount of gold per square area for the drilled column.

Other factors were also recorded during drilling, i.e. the quantity of recovered material per hole versus the depth; whether it was frozen or thawed, or if any water was present. All these factors indicate the quality of the hole and have to be considered when evaluating the results.

The drill holes and results were then plotted on a map and the reserve values calculated using the triangulation method.

As the drilling indicated values only slightly over our break even point of .557 grams/

square metre (.015 oz/yd²), we had to run a bulk test before abandoning the deposit. The bulk test would also give us the percentage of error in the drilling.

It should be noted at this time that Eldorado Placers does all its values calculations by area and not volume. This method is used for simplicity in calculating future pit values where the surface area of the pit is already known. The profitable pay horizon starts about 1.4 metres (1.5 yds) above bedrock and extends on the average 1.4 metres into bedrock. Therefore all subsequent calculations can simply be divided by three in order to give a rough estimate of the value per cubic metre sluiced.

A relatively large area of eighty metres square was processed as a bulk sample to ensure the results would be accurate. Recoveries from this bulk test were two hundred percent (200%) of the drill values. This now made the reserve look feasible and gave a correction factor to adjust our drill values with. The subsequent processing of nine hundred metres by sixty metres, gave a recovered value of 1.314 gms per square metre (.0355 oz/yd²) and readjusted the correction factor to 236%. An error of this magnitude is not uncommon in a low grade reserve.

As stated there are many problems associated with testing a placer deposit. Physical and geographic problems are often the hardest to overcome, but can usually be solved with the appropriate considerations. Problems with the evaluation of a reserve are far more troublesome. Drilling an alluvial gold deposit will seldom give one hundred percent accurate results. On rare occasions, drilling may indicate higher values than actually exist. This can be extremely critical if the deposit is considered marginal for whatever reason, and can cause financial loss. Drilling can also indicate lower-than-actual values, a situation



that can lead to the abandonment of a deposit. The Sixty Mile river is a prime example of this situation and was only put into production due to results of the bulk test.

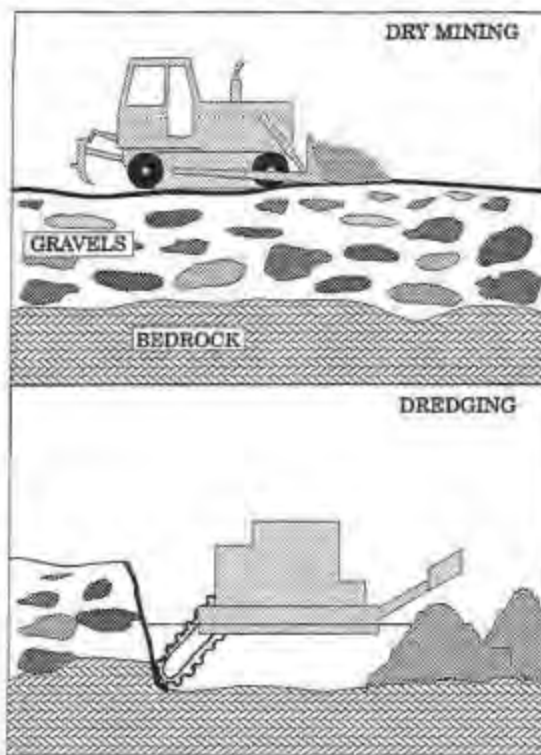
The drilling carried out on this deposit by Eldorado Placers cost approximately \$170,000 Canadian and produced no revenues. The bulk test on the other hand cost approximately \$60,000 Canadian (This includes the cost of establishing a bedrock drain at a cost of \$30,000), and yielded one hundred and thirty mint ounces of gold. At \$420 Canadian per ounce, this computes to \$54,500 Canadian for a final cost for the bulk test of only \$6,000 Canadian.

Because bulk sampling gives far more accurate results than drilling, it is the writer's recommendation that drilling be accompanied by a program of bulk sampling, and that the bulk sampling be done in a large enough volume as to give accurate results and return revenues.

#### Considerations for Dry Mining Versus Dredging on the Sixty Mile

As dredging is probably the most cost-effective placer gold mining method, one should always assess the possibility of dredging a reserve.

There are many factors that inhibit the use of dredges. On the Sixty Mile property it was the permanently frozen ground. Also, the amount of initial capital required to purchase a dredge as well as finance the advance stripping required (in order to allow natural thawing to take place) was prohibitive. (Dredges require a completely thawed cross section since they excavate the full depth of pay from the face of the deposit.)



Dry mining on the other hand is not so limited by conditions and requires far less initial capital. Because of the fundamental difference in the method of excavation between a dredge and a dry mining application (in that dry mining excavates from the surface and works down), dry mining can "chase" the frost. This means very little advance stripping is required in order to get the mine productive, and the amount of initial capital required is reduced.

#### Selecting Equipment for Dry Mining Alluvials on the Sixty Mile River

There are innumerable variations one can make when selecting equipment for a dry mining application. All deposits require a specific selection of equipment to maximize production. When starting out, versatility is the key. In frozen ground where removing overburden with water is not an alternative, a large crawler tractor with a ripper is without a doubt the single most important purchase a developing

mine can make.



There is no other machine that has the versatility of a crawler tractor. In a mine handling up to seven hundred and fifty thousand cubic metres per season, stripped and/or sluiced, crawler tractors are capable of doing all the jobs required. Although they are not always as cost-effective at some jobs, they have a far greater capacity to do most everything and therefore should always be the first piece considered when selecting equipment.



If finances permit, secondary pieces of equipment can be purchased for specific jobs that consume a proportional amount of time and therefore can justify the purchase through decreased operating costs. An example of this would be where sluicing is of the duration that the purchase of a loader or conveyor for tailings could be justified by the cost savings,

compared to having a crawler tractor do the job. These operating cost savings are readily available from the equipment manufacturers and need only be adjusted to reflect local conditions. To develop the Sixty Mile reserve, Eldorado Placers chose two Caterpillar D9L crawler tractors with U blades and rippers.



Getting into full production in a reserve located in permafrost is regulated by the amount of ground that can be "opened up" or stripped of its frozen black muck and hence allowed to thaw or turn into "seasonal frost". Sluicing in the first few years is limited by this and so does not warrant the use of specific pieces of equipment for sluicing.

**Methodology for Mining the Low Grade High Volume Permafrost Deposit of the Sixty Mile River**



(All costs in Canadian dollars, fuel @ 34¢/L, wages @ \$20/person hour)

### Drainage and Mine Layout

Without a doubt the most important factor in dry mining is the drainage. Drainage can be accomplished by one of two methods; by using a pump to remove accumulating water, or by establishing a "bedrock" drain. A bedrock drain is a drain that is dug to a depth into bedrock, thus enabling water to drain away.

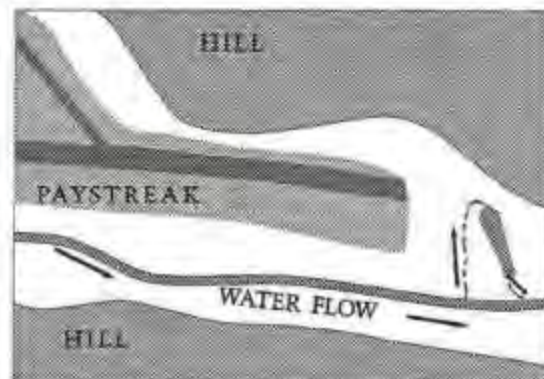


There are times when pumping mine waste water may be necessary, but it is the author's experience that a good bedrock drain is by far the simplest and most cost-effective way to maintain a dry mine area, and that one should always consider a bedrock drain before resorting to pumping.

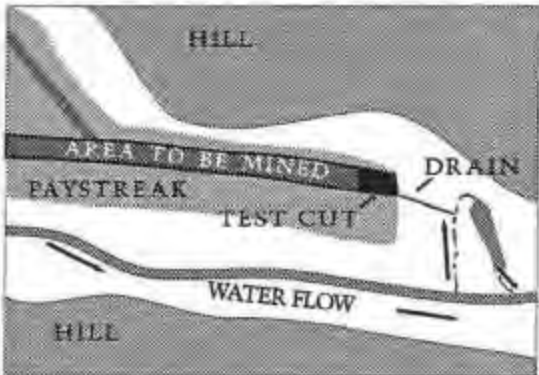
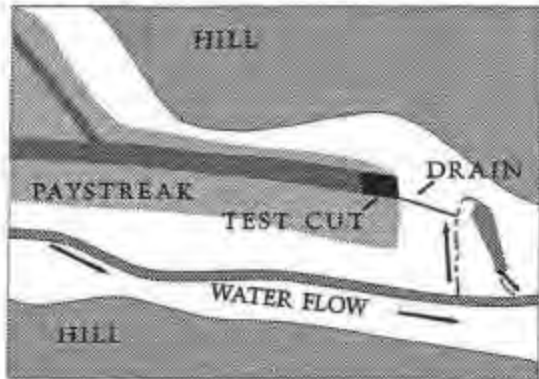
There are many problems associated with pumping waste water, including pump suction blockage due to debris, engine or pump failure, high pump wear, (especially if pumping sluice water discharge), all of which can cause serious problems to the mining activity should they interrupt drainage. There is also the additional cost of running another engine, when the natural gradient of a valley floor can be utilized to continuously drain the water and eliminate all future costs associated with drainage.

Stripping the frozen black muck overburden can take place concurrent to the development of the bedrock drain. It is important however that the drain be developed at such a rate as to ensure the ongoing stripping is adequately drained. The accumulation of water is extremely detrimental to the stock piling of frozen black muck.

It makes practical sense to establish the bedrock drain at the most downstream point of the deposit possible, and to start mining from this point up-stream. In doing this, only the cost of one bedrock drain will be incurred for the deposit and subsequent mining will develop ongoing drainage as well as other necessities to good mining practices. (More to follow on this topic in Reclamation.)

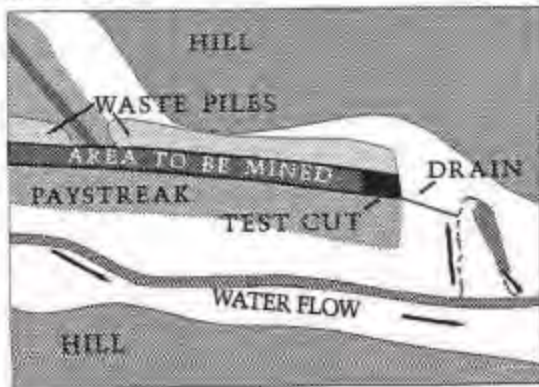


Laying out a mine plan that is most appropriate for the deposit's characteristics and the selected equipment is important. As the "pay streak" on this portion of the Sixty Mile River appeared to be at least three hundred metres wide with a known length of three kilometres, a mine width of one hundred metres was chosen. This was well within the proven effectiveness of a D9L. The initial swath laid out for stripping and subsequent processing followed the richest portion of the pay-streak upstream. This was done to guarantee success in the critical first few years while the new deposit was being developed.



### Stripping Black Muck and Gravel Overburden

Stripping of frozen black muck is best done in freezing or near freezing conditions. This will not allow the muck to thaw and become impossible to handle. If possible the black muck waste piles should be located on barren ground so they will not have to be moved again in order to mine.



As the gravels are exposed, all depressions that harbour frozen muck should be cleaned out, as the muck is generally impossible to deal with when thawed and greatly retards thawing of underlying gravels. As the gravels start to thaw, they should be stripped on an ongoing basis. Thawing in gravels occurs quite rapidly to a depth of about one-third of a metre but slows noticeably thereafter. Constant stripping of the thawed material will maximize thaw rates. Attention should still be focussed on drainage as stagnant water inhibits thaw whereas good drainage increases thaw.



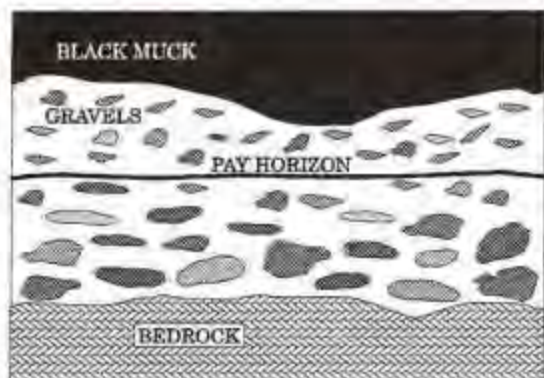
### Delineating the Pay Horizon

When opening up a new reserve, delineating the pay horizon is of great importance. Leaving too much low grade material will dilute the value of the sluice yard while stripping off high yield gravels will lower the total yield of the reserve.

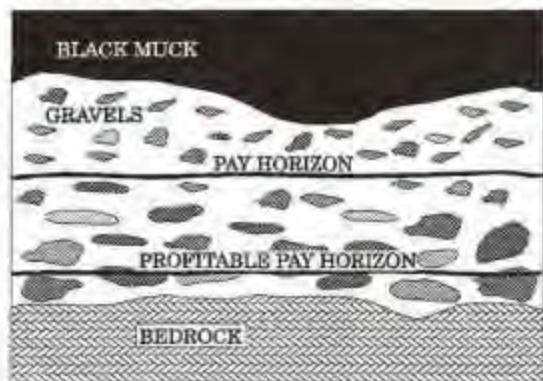
Constant testing of the gravels should be carried out while the stripping is going on. Testing can be done by a number of different methods, but panning is a quick and uncomplicated method by which to accomplish this. Panning is not that accurate a test however, and it is wise to under strip the first mine pit in order to test for the pay horizon in a bulk test fashion, i.e. sluicing. This is the only accurate way to determine the point at which it



pays to process the gravels as opposed to stripping them.



One should keep in mind that the cost to strip a cubic metre is usually less than the cost to sluice a cubic metre. But, stripping is 100% expense whereas sluicing produces revenue. It is Eldorado Placers' experience that the cost to strip a cubic metre of thawed gravel is about fifteen cents and the cost to sluice a cubic metre is sixty cents. (These figures do not include wages.) That means that the sluicing has to recover more than forty-five cents per cubic metre in order to be more cost effective than stripping.



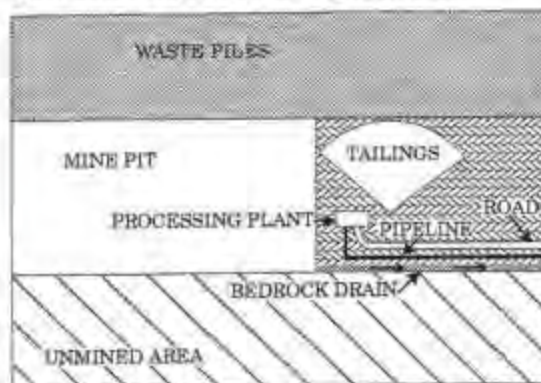
Because Eldorado Placers sluices at a rate of three hundred loose cubic metres per hour, about 25% the rate that it can strip thawed gravel, and since the sluicing season is short (120 days), it is necessary to strip to the point

that the sluiced material will run at least \$3.98 per cubic metre (\$3.33/yd³) in order to be sufficiently profitable.

Calculations of this nature are necessary in order to determine where the "profitable" pay horizon is.

#### Laying Out a Mine Pit

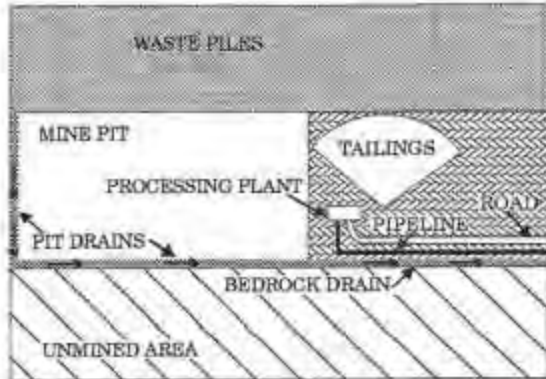
As mentioned, a mine width of one hundred metres was chosen at this mine site to match the equipment selection and deposit characteristics. A pit length of one hundred and forty meters was decided on as it is the optimum working range for the D9L's. A typical pit or "cut" layout should have the processing plant located at the down-stream end of the pit on mined out ground (not always possible when first starting out). It should be located in such a manner as to provide adequate space for tailings as well as providing room for the pipe line, access road and the bedrock drain.



It is critical that proper drainage be developed in order to ensure the pay material in the pit is handled in a dry or semi-dry state.

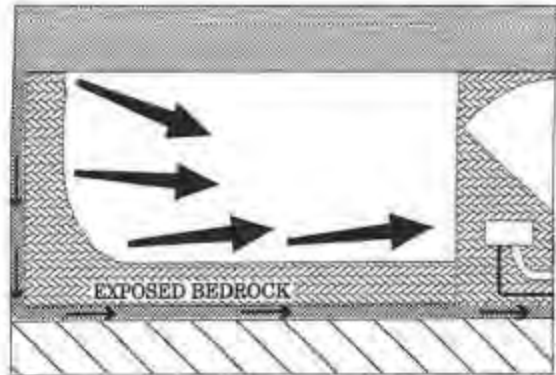
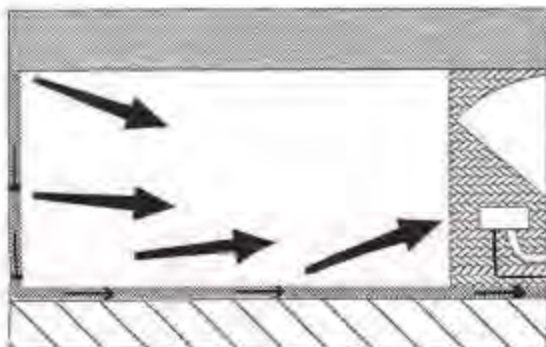
Once the parameters of the mine pit are located by the above criteria, drainage should be established up one side of the cut, (the same side as the existing drainage) and across the upper end or back of the pit. This effectively cuts off seepage water from the pay materials

and allows them to drain any accumulated water. These pit-drains have to be maintained throughout the sluicing process and occasionally lowered to ensure little or no seepage into the pay materials will take place. This may also include lowering the original bedrock drain.



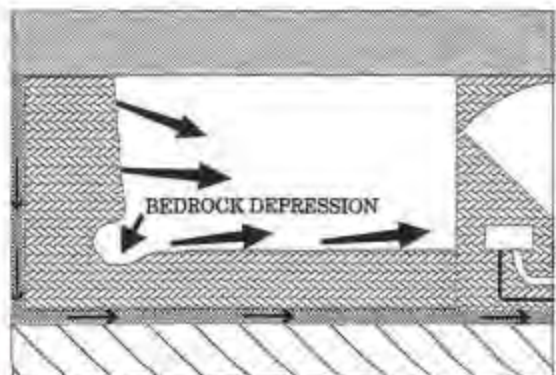
#### Advancing the Pay Materials

Advancing the pay materials should always be done in such a manner as to ensure no holes or pockets are created that could accumulate water prior to all the pay material from behind them being advanced. This is accomplished by advancing the material from along the pit-drains first and tapering the pay material slightly uphill, in the direction of the recovery plant. This will cause any seepage or thaw water to flow into the established pit-drains.

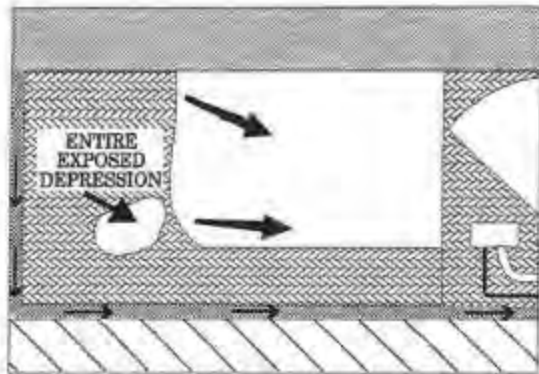


As the bedrock is exposed along the pit-drains, panning should be done to assess if a deep enough section of bedrock has been taken. Pay in the Sixty mile valley often penetrates bedrock from 15 cm to 2 metres, so the established drainage sometimes has to be lowered in order for it to perform its function properly.

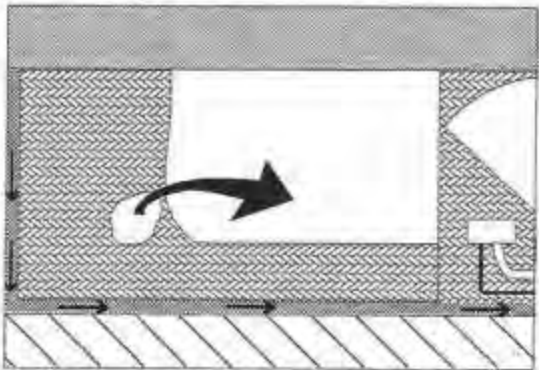
As the pay material is advanced, it is common to expose depressions in the bedrock. These depressions are easily identifiable as they will still contain gravel, even though a depth of bedrock will already have been removed from surrounding areas. These depressions should be left intact, at the level of the "cleaned" bedrock, until such time as the entire depression is exposed.







Premature removal of material from these depressions produces pockets that can accumulate water and greatly hamper the proper cleaning of the entire depression. Once the entire depression is delineated it should be cleaned out all at once and then panned to ensure no gold remains.



Forward advance in this manner should continue, ensuring drainage is always toward the pit-drains, and that no gold is left behind in any depressions or any subsequent pit-drains that may have to be established during the sluicing operation.

### Mining Low Grade Alluvials at a Profit

There are many reasons why an alluvial placer operation may not be profitable. Incorrect equipment selection, improper application of selected equipment, poor mining practices, and

poor equipment maintenance are certainly reasons for low or no profitability. All of these things have to be scrutinized closely when attempting to mine a low grade alluvial deposit. These can be the determining factor for being profitable or not. But, the two most critical factors are throughput and recovery.

Eldorado Placers Ltd. has found values of 0.557 gms per square metre (0.015 oz/yd²) to be marginally profitable, values of 0.930 per square metre (0.025 oz/yd²) to be profitable and considers values of 1.487 per square metre (0.04 oz/yd²) to be high grade. At these low values, throughput and high recovery rates are the most important factors and should be front and foremost at all times.



### Reclamation and Good Mining Practices

More and more in today's world, we realize the need to be environmentally correct. The approach that Eldorado Placers Ltd. has taken to placer mining is to not only reclaim its mine areas, but to attempt to improve over their original state. Since the Sixty Mile River deposit is permanently frozen, there are very few deciduous trees and so a scarcity of terrestrial animals. Winter freezing of the river to the bottom also contributes to low fish populations.

Eldorado Placers' mine reclamation plan for this property incorporates a totally enclosed

recirculation system for sluicing. This eliminates any detrimental impact to the existing stream. Mined pits are used as pump ponds and then as settling ponds. The tailings are contoured and in some cases covered with muck. This sequence produces a series of ponds with silt bottoms and interconnecting streams. These ponds provide excellent overwintering for some species of fish and haven for ducks during the summer. The contoured tailings grow willows and other deciduous trees very rapidly. This deciduous growth attracts birds, rabbits, moose, etc., which in turn attract the prey species.

Reclamation planning of this nature should be considered in conjunction with the mine plan in order to ensure the costs to perform this necessary function are minimized.



### About the Author

Greg Hakonson was born and raised in Dawson City in the historic Klondike gold fields. With a family history in placer mining, Greg was in good hands when he ventured into the gold mining business in 1973.

Mine relocations over the following nineteen years have given Hakonson a well rounded knowledge of conditions regarding the mining of wide or narrow, steep or flat, deep or shallow ground in a permafrost state.

He has managed Eldorado Placers since its inception in 1977. Operating equipment, welding, mapping, evaluating drilling, and designing gold recovery plants are all a continuous part of his mining activities. His most recently designed gold recovery plant has increased Eldorado Placers' productivity by 65% and has been the single most important factor in the ability of Eldorado Placers to mine the low grade reserves of the Sixty Mile River.



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## RECYCLING MINE WATER AND MINE PIT DRAINAGE

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### RECYCLING MINE WATER & MINE PIT DRAINAGE

In some conditions, the practice of recycling mine water may be beneficial. When there is an insufficient amount of water for sluicing or certain effluent standards have to be met, recycling is certainly the answer.

Recycling water need not be complicated or expensive. If a proper mine plan is implemented, all the necessary earthen works can be installed with a minimum of expense. With some small amount of effort, return water can be ditched quite close to the recovery plant in order to minimize the length of pipeline required and therefore minimizing pumping costs.

The sequence of events that should be followed are these: Mine drainage should be developed as described on page 6 of the original report. Once proper drainage has been developed, and enough ground mined to allow sufficient room for the establishment of ponds, a dividing berm should be constructed (from tailings as shown in diagram 4) of sufficient height and length, that as the depth of the pond is in-

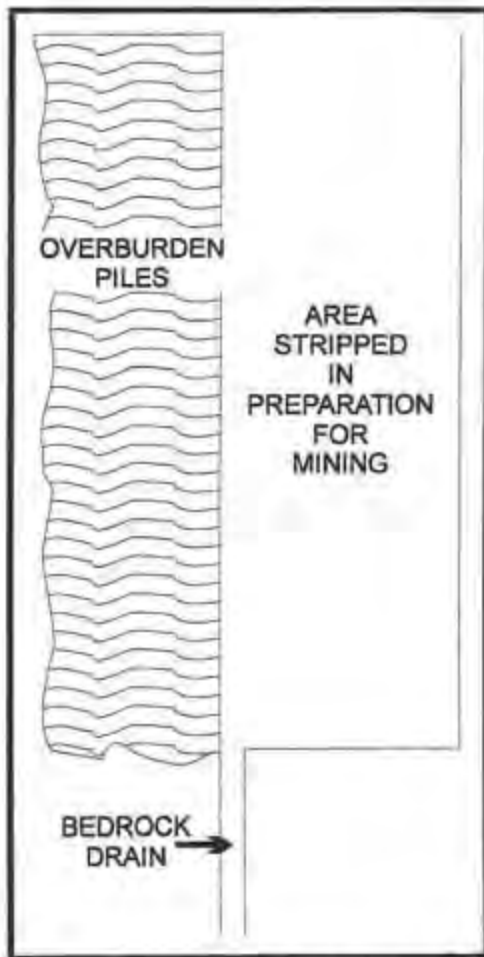
creased the berm will be high enough above water in order to carry out its function of diverting the sluice water through the full length of the settling ponds before returning to the pump.

Diagrams 1 through 6 show a typical sequence for the ongoing development of settling and recycling ponds.



**RECYCLING MINE WATER AND MINE PIT DRAINAGE**

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**Diagram 1**

Diagram 1 simply shows the area to be mined with the bedrock drain established and the overburden or waste piles.



**RECYCLING MINE WATER AND MINE PIT DRAINAGE**

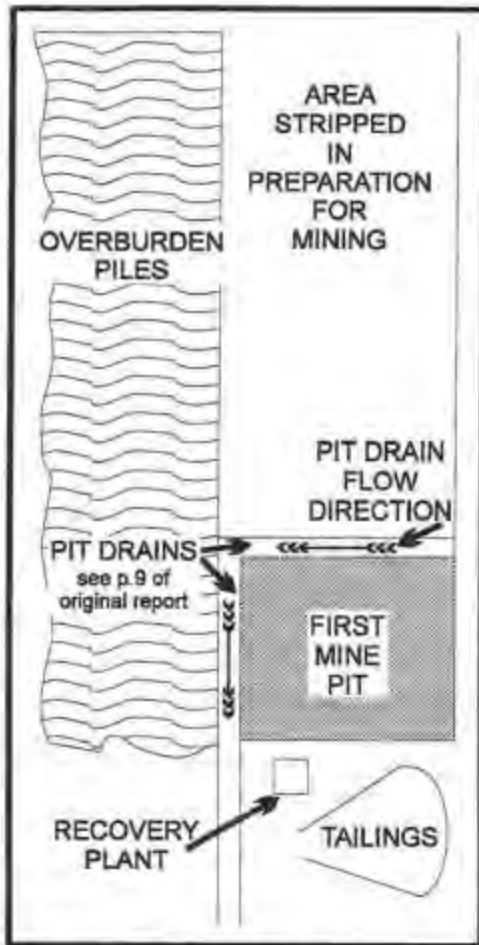
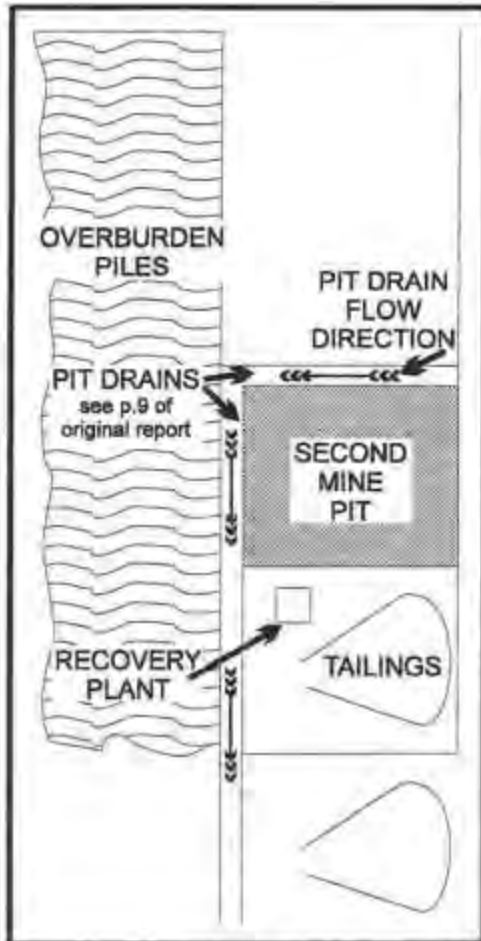


Diagram 2

Diagram 2 shows a typical layout for the first mine pit on a new property. The first pit on a new property is always difficult, as there are no proper places for tailings, the recovery plant, pump, pipeline, etc. These problems have to be overcome on a site specific basis as there is no standard procedure for this. It is none the less important to have a complete mine plan beforehand to ensure that the first mine pit does not interfere with future developments.

**RECYCLING MINE WATER AND MINE PIT DRAINAGE**



**Diagram 3**

Diagram 3 shows the general type of progression of mine pits. At this point in a mine plan, there is generally not enough room or gradient to allow for both proper pit drainage and a recycle pond at the same time.

**RECYCLING MINE WATER AND MINE PIT DRAINAGE**

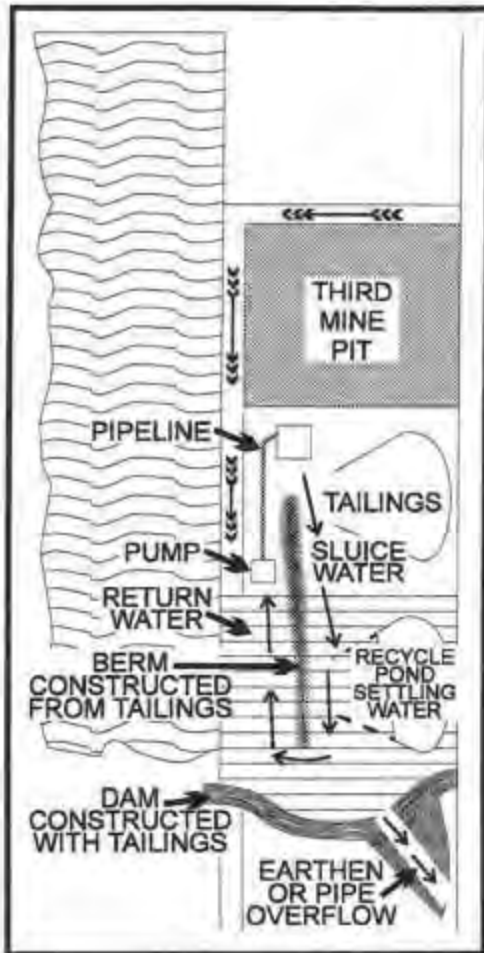


Diagram 4

Diagram 4 shows a further progression. By this point in the development of a mine, it is often possible to establish a small recycling pond. Care has to be taken to ensure that the pond is located far enough away from the mine pit being processed to ensure that bedrock and pit drainage is not adversely affected.

The berm can be constructed with tailings or bedrock from the mined out pit floor. It should be of a suitable height so that it will remain above the water level as the pond's depth is increased.

An earthen overflow is the least time consuming type of water level control to establish. Pipe overflows can be used if the available gravels are not suitable for an earthen overflow, but since the pond height will increase as mining progresses, earthen overflows are vastly simpler and easier to adjust.

**RECYCLING MINE WATER AND MINE PIT DRAINAGE**

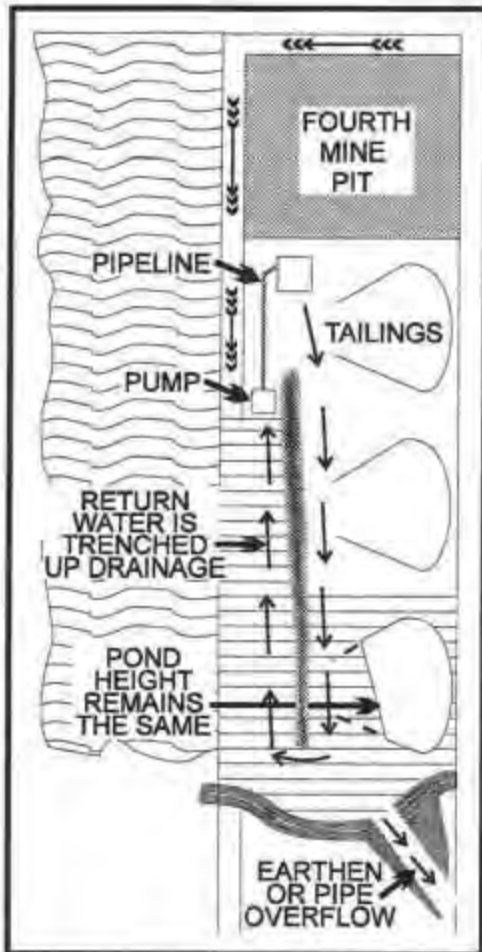


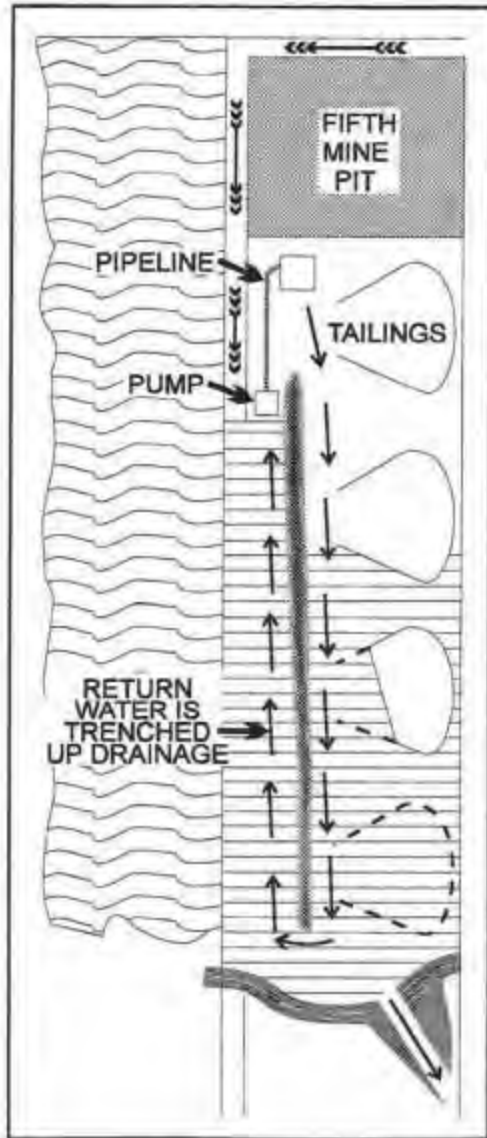
Diagram 5

Diagram 5 shows that as mining progresses, the berm should be lengthened, but the pond depth need not be increased immediately. Depending on the gradient of the bedrock, it is often preferable to allow the active mine pit to become more distant from the recycle pond, thus ensuring proper pit drainage.

The return water can be trenched up drainage in order to minimize the length of pipeline required and therefore reduce pumping costs.



**RECYCLING MINE WATER AND MINE PIT DRAINAGE**

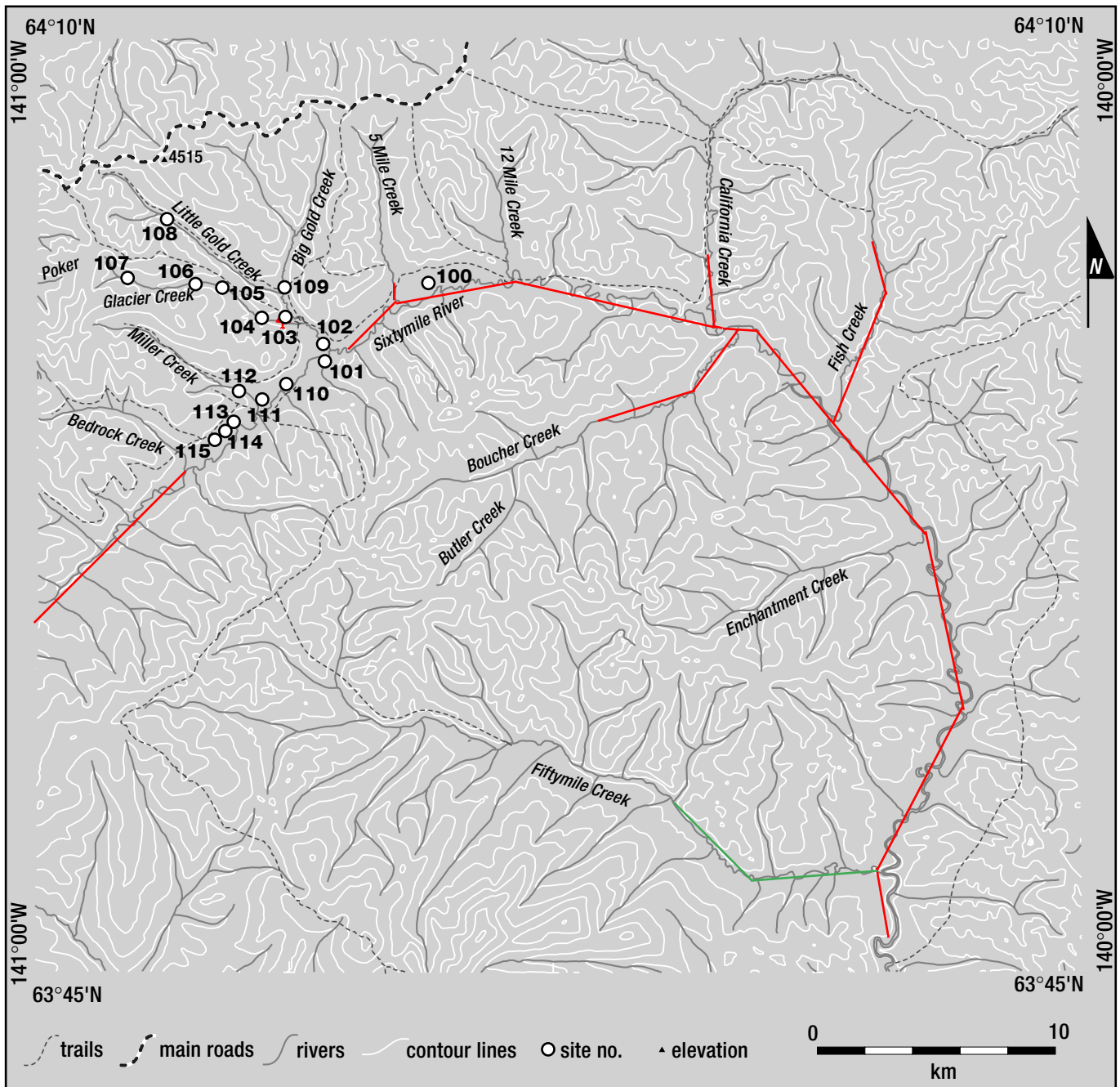


**Diagram 6**

Diagram 6 illustrates that once adequate drainage has been ensured for the active mine pit, the height of the dam and overflow can be increased accordingly. This will provide more settling area and more water. This procedure can be repeated until either the dam height becomes precarious or the dividing berm is no longer high enough to perform its function. At this time, a suitable location has to be found for the construction of the next dam.

# SIXTYMILE PLACER AREA

SITES  
100-115



## LEGEND

- |                                                                    |                                                             |
|--------------------------------------------------------------------|-------------------------------------------------------------|
| 100 ..... Eldorado Placers, Sixtymile River                        | 108..... Maurice Alexander (Stempien), Little Gold Creek    |
| 101..... Jayce Murtagh (J.M. Mining), Big Gold Creek/Glacier Creek | 109..... Dredge Master, Hungry Gulch/ Big Gold Creek        |
| 102..... Steve Prohaszka, Big Gold Creek/Glacier Creek             | 110 ..... Frank and Karen Hawker (Tri-Kay), Sixtymile River |
| 103..... Tim Coles (Rauguth), Glacier Creek                        | 111 ..... Brisebois, Sixty Mile Bench Pits                  |
| 104 ..... Stuart Schmidt (K-1), Glacier Creek                      | 112 ..... Jayce Murtagh (J.M. Mining), Miller Creek         |
| 105..... K-1 Mining, Glacier Creek                                 | 113 ..... S. Schmidt, Sixtymile River                       |
| 106 ..... K-1 Mining, Glacier Creek                                | 114 ..... Northway Mining, Sixtymile River                  |
| 107..... Gordon Hagen, Glacier Creek                               | 115..... Walter Yaremci, Sixtymile River                    |

**SIXTYMILE RIVER****116C/02A**

Eldorado Placer Ltd.

64°02'N 140°38'W

Water Licence: PM93-072

1998, 1999, 2000, 2001, 2002

Sixtymile Placer Area

**Site no. 100**

**OPERATION/LOCATION** Greg Hakonson's operation mined property on the left limit of the Sixtymile River near 5 Mile Creek. Each year four miners worked one 12-hour shift per day except for 2001 when there were three miners.

**EQUIPMENT/FUNCTION** This operation used three Caterpillar D9L bulldozers and one Caterpillar 245 excavator to mine.

**WASH PLANT** The wash plant used was a 5-foot by 18-foot double deck screen plant. The reported average process rate varied from year to year from 225 to 340 loose cubic yards per hour. Water was supplied at a rate of 5000 to 5500 igpm using a 10 by 12-inch Peerless pump powered by a 3206 Caterpillar engine. Jigs were used to clean concentrates which were removed from the wash plant every shift.

**GROUND DESCRIPTION** In 1998 and 1999, the stratigraphic section for this property was reported as 3 yards of muck over 4 yards of gravel. The bottom 1 yard of gravel and 1 yard of bedrock were sluiced. In 2000, the operation processed an additional yard of the gravel. In 2001, the mud layer increased to 5 yards over the 4 yards of gravel. The sluice section was 1 yard each of gravel and bedrock. In 2002, the mud layer was 3 yards deep. The sluice section was the same as in 2001.

**MINING CUTS** Five cuts were mined in 1998 with a total volume of 137,490 cubic yards. In 1999, the total volume of the five cuts mined was 195,062 cubic yards. In 2000, four cuts were mined with a total volume of 72,000 cubic yards. In 2001, production was reduced to two cuts averaging

approximately 17,000 cubic yards each. In 2002, the surface area of each of the four cuts mined was 120,000 square feet.

**WATER SUPPLY AND TREATMENT** Water is obtained from out-of-stream ponds. Settling is also out-of-stream. The operation usually accomplished 100% re-circulation of process water. The pond size varies depending on the location on the property of the sluice setup. It can be as large as 2000 feet by 300 feet. Discharge from the site is generally drainage water although there have been discharges of overflow process water when working at the downstream end of the property.

**GOLD** The fineness of the gold is 840. The gold is described as fine-grained.

**COMMENTS** Reclamation is being addressed on an ongoing basis.

**BIG GOLD & GLACIER CREEKS****116C/02B, C**

Jayce Murtagh

64°01'N 140°43'W

Water Licence: PM99-113, PM97-026

2000

Sixtymile Placer Area

**Site no. 101**

**OPERATION/LOCATION** In 2000, Jayce Murtagh sluiced test cuts at a number of locations on Glacier Creek under a water use licence held by K-1 Mining Services. In addition, he mined at the mouth of the Big Gold Creek valley under Water Use Licence PM99-113.

**EQUIPMENT/FUNCTION** A Caterpillar D9L bulldozer with single shank ripper was used to repair the road. A 980B Caterpillar loader and an Hitachi EX300LC excavator were used for stripping and sluicing. A Caterpillar D8 bulldozer owned by K-1 Mining Services Ltd. was also used as needed.



*Eldorado Placer's sluice plant operating in the Sixtymile River area downstream from 5 Mile Creek in 2002.*



**WASH PLANT** A 4-foot by 12-foot single deck screen with steel punch plate screened to 3/4 inch. A hopper fed a 30-inch by 50-foot tailing stacker. Sluice runs are two 8-foot wide runs with hydraulic riffles. The pump was changed to an 8 by 10-inch Morris powered by a 3306 Caterpillar engine, with water use rate of 1800 igpm to wash 100 loose yards per hour. The clean-up system was changed to a two cell jig with a long tom.

**GROUND DESCRIPTION** The area mined on Glacier Creek had previously been stripped by K-1 Mining. Mr. Murtagh sluiced 3 feet of gravel and 3 feet of bedrock in this area. The total depth of the area worked at the mouth of Big Gold Creek is estimated to be 14 feet.

**MINING CUTS** The three cuts sluiced on Glacier Creek were each 50 feet by 100 feet in area. On Big Gold Creek an area 200 feet by 200 feet was stripped down by 8 feet. The site has not yet been sluiced.

**WATER SUPPLY AND TREATMENT** On Glacier Creek process water was recycled at a rate of approximately 50%, with settling occurring in a series of out-of-stream ponds that were mined-out cuts.

**GOLD** Gold from the area of Glacier Creek was stained brown and coarse. Purity of gold recovered from Glacier Creek typically ranges from 830 to 860 fine.

**COMMENTS** Reclamation was addressed as work was completed at each of the sites.

[REDACTED]

processed 80 loose yards per hour. Water was supplied to both plants using a 6-inch submersible pump to provide the 1600 imperial gallons per minute. Jigs are used to clean up concentrates from the wash plants.

**GROUND DESCRIPTION** In 1998 and 1999, Mr. Prohaszka had to strip 32 feet of frozen muck and 5 feet of waste gravel to get to the 4 feet of pay gravel and 6 feet of bedrock which he sluiced. In 2000, 2001 and 2002, the frozen muck layer increased to 40 feet and the pay gravel layer was 5 feet deep. In 2002, the waste gravel layer increased to 6 feet.

**MINING CUTS** In 1998 and 1999, one 200-foot by 300-foot cut was processed each year. The cut in 2000 was 300 feet by 400 feet. The cut in 2001 was 300 feet by 300 feet. In 2002, one cut 300 feet by 300 feet was mined on the right limit of Glacier Creek as well as a cut approximately 150 feet by 150 feet between the creeks.

**WATER SUPPLY AND TREATMENT:** In 1998 and 1999, the water came from Big Gold Creek. In 2000 and 2001, Glacier Creek was used.

**GOLD** Gold recovered had a purity of 840 fine.

[REDACTED]



[REDACTED]