Report on the

Placer Mining Claims

Otter Creek,

Atlin Mining Division

Atlin, B.C.

for

Genie Resources Ltd.

112C-255 West First Street,

North Vancouver, B.C.

V7M 3G7

by

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SUMMARY

The Genie Resources Ltd. placer group of 21 claims and fractions is located along Otter Creek about 12 miles east of Atlin in Northwestern British Columbia. Genie Resources along with associated groups has 100% interest in the mineral rights of these placer leases.

The Atlin gold placer camp like the Klondike gold fields has enjoyed success of variable extent and over disjointed periods of time. It is ranked next to the successful Klondike camp in placer production since 1898. The Otter Creek placer operation ranks 6th in production from the Atlin area which has produced 745,800 ounces of raw gold to 1981.

A hammer drill program by the company during the 1983 season successfully identified drill indicated mineral reserves of 1,405,000 cubic yards. Grade of the drill identified zones averaged 0.052 and may, considering gold losses in the drilling, run as high as 0.070 ounces gold per cubic yard. Reserve estimates show a gold content of better than 100,000 ounces in the small amount of creek area tested. It is estimated that large volumes of pay gravel exist in the untested section of the 2 kilometer length of creek within the Genie Resources ground.

In 1874 Genie Resources, having consolidated their land position on Otter creek with the acquisition of downstream claims, undertook a modified stripping and mining operation. A total of 456,000 cubic yards of waste overburden was removed and some 150,000 cubic yards of pay gravels put through the sluice boxes. The average recovery grade was 0.022 ounces gold per cubic yard. Taking sluice losses and waste dilution material into account the writer has calculated an initial grade of 0.064 ounces of gold per cubic yard. Based on the 1984 wash plant results Genie Resources Ltd. have opted to purchase an operating plant available within the area. It is expected that recovery from this unit will be in the projected recovery grade.

Genie Resources Ltd. have prepared a pro-forma projection chart based on a mining grade of 0.07 ounces gold per cubic yard. In addition, this mine plan includes capital expenditures and mining cost breakdowns. A total recovery of some 25,200 ounces of gold is projected for 1986 and at a U.S. \$330 per ounce gold may yield a pre-tax profit of about \$3,254,500.

RECOMMENDATIONS

It is recommended that the company make available funds of a sufficient nature to allow a full season of stripping (750,000 cubic yards) and mining (360,000 cubic yards) of the Otter Creek gravel beds for the purpose of generating cash flows from gold sales to carry subsequent operations upstream on Otter Creek.

It is also recommended that the policy of "exploration in advance of production" be adhered to by instituting a drill campaign testing the gravels well beyond the advancing pit face.

It is also recommended that intense monitoring of the new wash plant and in particular, the tailings rejects be closely supervised.

Respectfully submitted

W.G. Hainsworth, P. Eng.

April 14,1985

COSTS ESTIMATES

1986 PRE-PRODUCTION, START-UP AND FIRST 30 DAYS PRODUCTION

PRE	-PRODUCTION:		
1.	Required for part-payment 1984 stripping contract	450,000.	
2.	Accounts Payable-including legal, audit, and office expenses	35,000.	
3.	Interest re Loans - bank, unit-holders, Royalty-holders	335,000.	
4.	Public Offering costs - Legal, accounting, printing	30,000.	850,000.
STA	RT-UP:		
1.	New gold-recovery unit (replacement)	300,000.	
2.	Equipment mobilization	150,000.	
3.	Mining Camp set-up	7,500.	457,500.
FIF	RST 30 DAYS OPERATING:		
1.	Stripping contract - 100,000 cu. yds @ \$2.25	225,000.	
2.	Clean out and extend settling ponds	50,000.	
3.	Supervision and recovery labour	45,000.	
4.	Engineer/geologist	10,000.	
5.	Excavating & pay-dirt hauling to recovery plant- 52,500 Cu. Yds @ \$5.00	262,500.	592,500.
CON	TINGENCY	_	100,000.
			2,000,000.

OPERATIONS SCHEDULE 1986

REVENUE:	HAY	JUNE	JULY	AUCUST	SEPTEMBER	OCTOBER	TOTALS
Gold Sales - (Production Data - Schedul Line 1)	e 1, -	1,000,000.	2,000,000.	2,000,000.	2,000,000.	1,000,000.	8,000,000.
REDUCED COSTS: DIRECT MINING - (Schedule 2)	-	580,000.	810,000.	815,000.	452,500.	-	2,657,500.
PREPARATION AND CLEAN UP - (Schedule 3	220,500.	-	-	-	-	168,000.	388,500.
ADMINISTRATIVE AND GENERAL - (Schedule	57,000. 277,500.	39,500. 619,500.	24,500. 834,500.	23,000. 838,000.	32,000. 484,500.	31,500. 199,500.	207,500. 3,253,500.
NET PROFIT, (LOSS) BEFORE DEFRECIATION AND INCOME TAXES	(277,500.)	380,500.	1,165,500.	1,162,000.	1,515,500.	800,500	4,746,500.
			SOURCE AND	APPLICATION O	F FUNDS - 1986		
FUNDS RECEIVED FROM: PUBLIC OFFERING - PRIMARY, NET - 1,000	,000 SHARES @ \$	2.00		2,000,000.			
OPERATIONS				4,746,500.	6,746,500		
FUNDS APPLIED TO: HACHINERY ACQUISITION				300,000.			
DEBT RETIREMENT				3,142,000.			
ADMIN. AND GENERAL COSTS - POST OPERAT	ING SEASON			50,000.	3,492,000.		
CASH AVAILABLE BEFORE PAYMENT OF INCOM	E TAXES				\$ 3,254,500		

		OPERATING SO	CHEDULE 1986				
PRODUCTION DATA: (Schedule	1.)	For 120 Days Produ	uction			Sale Valu	e (CDN)
	Recovery Per day	Raw Fine Cold Cold 9 76.6%	Royalty 3 10%	Disposable Gold	@ \$460.	@ \$500.	€ \$550. ————
ASSUME 3,000 cu. yds. (2 shi RECOVERY RATE - 1. @ .07 oz. 2. @ .08 oz. 3. @ .09 oz. 4. @ .10 oz.	- 210 oz.* - 240 oz 270 oz 300 oz.	25200 oz. 19303 28800 oz. 22060 32400 oz. 24818 36000 oz. 27576	(1930) (2206) (2482) (2758)	17373 oz. 19854 oz. 22336 oz. 24818 oz.	7,991,500. 9,132,800. 10,274,500. 11,416,300	8,686,500. 9,927,000. 11,168,000. 12,409,000.	9,555,000. 10,919,700. 12,284,800. 13,649,900.
	UNIT-3,000 cu	. yds. € \$5.00 per c.y.	JUNE 225,00. 262,500 52,500 25,000 15,000 580,000	. 375,000. . 52,500. . 25,000. . 20,000.	375,000 52,500 25,000 25,000	. 375,000 . 52,500 	900,000. 1,387.500. 210,000. 75,000. 85,000.

OPERATING SCHEDULE 1986

<u>.</u>	RATION AND CLEAN-UP COSTS: (Schedule 3)	MAY	OCTOBER	TOTAL
	Mobilization of equipment to mine-site	150,000.		150,000.
	Clean cut and extend settling ponds	50,000.		50,000.
	Camp start-up costs	7,500.		7,500.
	Staff salaries	13,000.	13,000.	26,000.
	Demobilization from mine-site		150,000.	150,000.
	CAMP SHUT-DOWN AND WINTER WATCHMAN		5,000.	5,000.
		220,500.	168,000.	388,500.

OPERATING SCHEDULE 1986

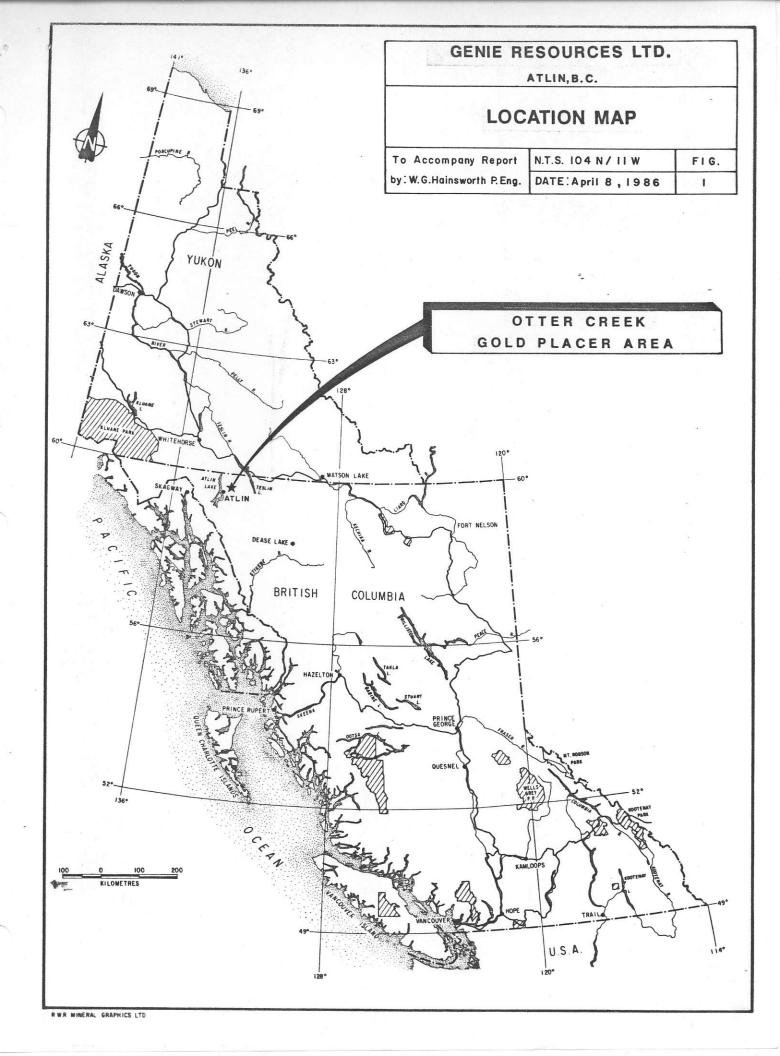
ADMINSTRATIVE AND GENERAL COSTS: (Sched	ATIVE AND GENERAL COSTS: (Schedule 4)							
	MAY	JUNE	JULY	AUCI'ST	SEPTEMBER	OCTOBER	TOTAL	
Accounting and Secretarial Services	500.	500.	500.	500.	500.	500.	3000.	
Insurance	1500.	_	-	=	-	5500.	7000.	
Interest	24000.	24000.	19000.	15500.	15500.	15500.	113500.	
Legal and Audit	20000.	10000.	_	-	10000.	-	40000.	
Office	500.	500.	500.	500.	500.	500.	3000.	
	2000.	-	-	2000.	-	2000.	6000.	
Printing and Mailing	5000.	2000.	2000.	2000.	3000.	5000.	19000.	
Promotion and Shareholder Relations		500.	500.	500.	500.	500.	3000.	
Rent	500.			-	-	_	1500.	
Taxes and Licences	1500.	-	-			1000.	6000.	
Telephone	1000.	1000.	1000.	1000.	1000.			
Travel	500.	1000.	1000.	1000.	1000.	1000.	5500.	
	57000.	39500.	24500.	23000.	32000.	31500.	207500.	

INTRODUCTION

The writer was commissioned by Mr. K. O'Connor to review all data on the Atlin placer claims of Genie Resources Ltd. and submit a report concerning recommendations advanced by prior authors plus incorporating considerations of the writer.

The writer visited the Atlin claims on March 28th and 29th,1986. Although covered by a foot of snow, the large hydraulic pit, operational camp and surface topographical features were visited and a background feeling was obtained. Various historical reports by consultants including those of the project geologist of the past 3 years, Mr. M. D. Kierans P. Eng., were made available. Mr. Kierans reports contain a wealth of information and the writer has freely drawn on his observation and recommendations.

The company has organized its corporate policies during 1985 and is readying itself to explore and mine the 21 placer leases under its control in the upcoming season.



LOCATION AND ACCESS

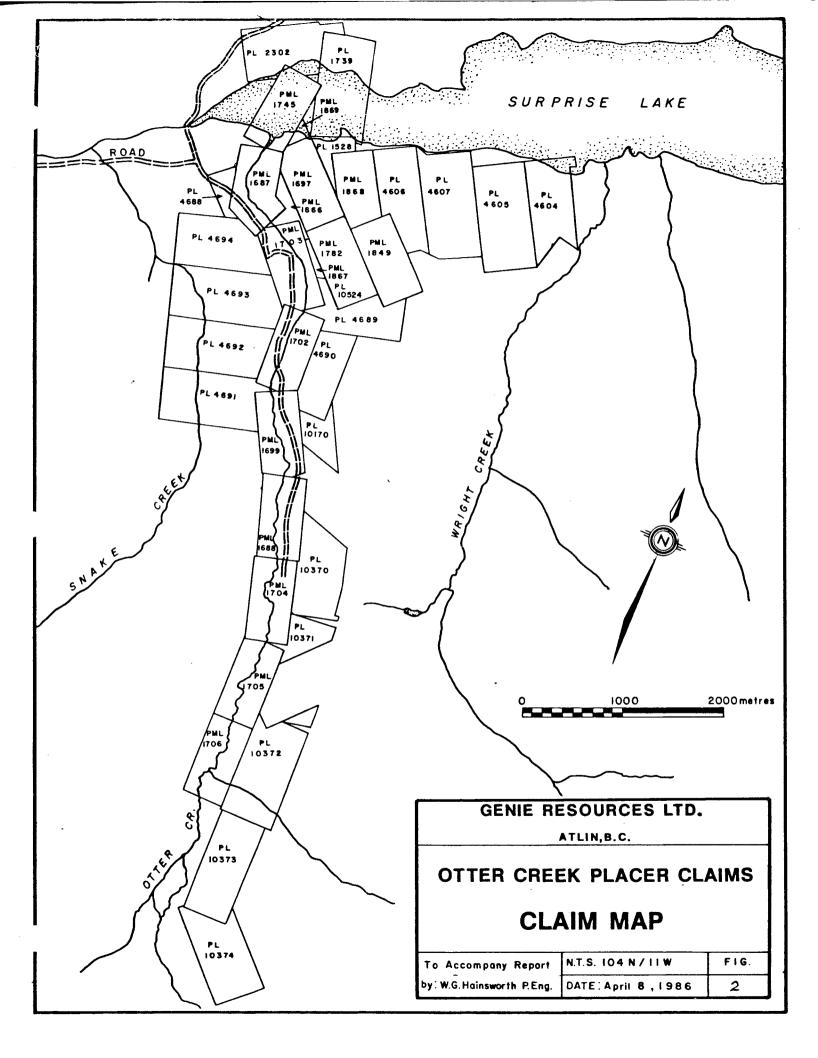
The placer claim group of Genie Resources Ltd. is located about 12 miles (20 Kilometers) east of the town of Atlin in Northwestern British Columbia.

Atlin, some 115 miles south of Whitehorse in the Yukon Territory, is best reached by paved highway cutting off from the Alaska Highway at Jakes Corner, 62 miles south of Whitehorse.

A new airstrip recently opened east of Atlin is available to light aircraft.

Access within the placer claims is achieved through a series of dirt roads extending southward on both sides of Otter Creek.

See figures 1.



PROPERTY

The 21 claims and fractions constituting the placer group of Genie Resources Ltd. are contiguous, extending in a north-south configuration over a distance of 1.2 miles (2 kilometers) from the north shore of Surprise Lake to the upper reaches of Otter Creek.

The claim group is located in the Atlin Mining Division of British Columbia and is centered on latitude 59deg. 37' north and longitude 133deg. 23'west. Its N. T. S. location is 104N/11W. See figure 2.

The following claims constitute the group:

Number	Expiry Date
PML 1697 PL 1528 PL 1739 PL 2302 PL 4604 PL 4605 PL 4606 PL 4607	OCT. 12/89 OCT. 12/89 OCT. 12/89 OCT. 12/89 OCT. 28/89 OCT. 28/89 OCT. 28/89 OCT. 28/89
PML 1745	OCT. 12/87
PML 1869	OCT. 12/87
PML 1687	SEPT. 30/87
PL 4688	OCT. 17/87
PML 1866	OCT. 12/87
PML 1868	OCT. 12/87
PML 1849	OCT. 12/87
PML 1867	OCT. 12/87
PML 1702	SEPT. 30/87
PML 1703	SEPT. 30/87
PML 1782	OCT. 12/87
PL 4689	OCT. 17/87
PL 4690	OCT. 17/87

HISTORY

The history of Atlin Placer mining is interwoven with the Klondike gold finds. When the great rush of 1898 was in progress into the gold fields of the Klondike, two prospectors discovered gold in Pine Creek several miles east of Atlin. The resulting swell of placer miners led to further discoveries in adjoining creeks. A combination of small size placer claims plus easily worked Quaternary gold gravel soon resulted in an exhaustion of the then known finds. The buried channels of the earlier Tertiary era were not known or considered in these early days.

Otter Creek was subjected to its first mining in 1901 when prospectors panned, rocked, sluiced and hydraulically mined sections midway up the nine mile length of the creek. A small but continuous hydraulic operation in 1905 is testified by the present Rose Pit outline in PL 1702. In 1908, a French financed operation began hydraulically mining the gravels near the mouth of the creek but this financially unsound. A French engineer later concluded that the ancient creek channel was located about a half a mile east along the shoreline with the result that operations spread to this area. Hydraulic operations over a period of eight seasons resulted in weak values and it is considered that most of their operation was done in the gravels overlying the ancient Tertiary channel. The hydraulic cut was continued up the creek until 1922 at which time underground mining was carried out intermittently for some six years.

In 1928 a new French backed company was formed to continue hydraulic work and in the ensuing years continued the cut up the ancient channel while exposing three gold-bearing gravel horizons. During these A shaft, termed as "Strand" was operations bedrock was never exposed. sunk in the bottom of the cut in 1932 and upon encountering bedrock the right limit began drifting procedures in values reported 0.048 ounces of gold per cubic yard. Two years later an inclined shaft, to figure 4) developed at the face of the cut, encountered the true bedrock trough at bedrock level with values running as high as one half ounces per cubic yard. Further prospecting from the cut disclosed a higher pay horizon lying some 30 feet above the bedrock floor. Later investigations resulted in another termed the Moran Level. zone called the Suoboda Level which was discovered above the Extensive drifting operations were carried out previous levels. on (See figure 4). From 1934 to 1938 these four levels from the cut face. practically all production resulted from drift mining. Hydraulic mining during part of this period still continued the cut upstream, principally in the overlying non-productive glacial till material.

Downstream efforts both underground and in the cut by hydraulic methods following these productive levels were unsuccessful with the result that in 1943 tracks and pumps were pulled and the drifts abaondoned.

Prior to 1939 several other shafts had been put down in the higher reaches of Otter Creek. One shaft, known as the Berthard, was sunk to 100 feet without reaching bedrock. Another shaft on the opposite limit of the claim, close to the Berthard shaft, also failed to reach bedrock at its 40 foot depth. In August, 1939 the "Main" shaft located 8000 feet upstream from Surprise Lake was put down to a depth of 103 feet before encountering water problems. A vertical drill hole from the shaft bottom is reported to have cut bedrock and values at 24 feet. No locations have been established on these upcreek workings.

Over the 1939 - 1940 winter prospect drilling was initiated with fourteen holes being completed on three section lines. In the spring of 1940, a further nine holes were put down. The prospect drilling was organized to locate the upstream extention of the old Tertiary channel. No logs or co-ordinates are available for these holes.

Work was suspended during the war but resumed with three more drill holes in 1945.

A bedrock profile utilizing an electrical resitivity survey proved of little advantage when undertaken in 1939.

From 1946 until 1976 little work was done on Otter Creek. In 1978 hydraulic activity was again initiated in the old cut.

In early 1983, some 13 placer claims lying south (up stream) of the hydraulic cut were acquired by Genie Resources Ltd. of Vancouver, B. C. The new owners ran a location survey of the claims and to assist future mining operations, an overburden drilling program. The drill program consisted of 86 vertical holes aggregating 6092.1 feet of overburden material.

Total cost of the two phase drilling program was \$392,564.33. As a result of these programs reserves of placer ore were assigned along the located and presumed sections of the old channel. Approximately 1,500,000 cubic yards of channel pay with approximately 103,000 ounces of fine gold were assigned in reserves of various categories on the property.

After reviewing the results of the Phase I and II exploration programs and drilling 14 holes for a total of 705 feet in the Drain Lease Mine pit, the management of Genie decided to acquire the Drain Lease Mine located downstream and adjacent to Genie's Otter Creek Property. The Drain Lease Mine is a fully operational mine that had been in continuous production since 1978. The cost of the Drain Lease operation was \$3,250,000. The acquisition included the property, camp, earth moving equipment, gold recovery plant and gold cleaning equipment.

During 1984 the major emphasis of Genie's Otter Creek program was to consolidate the overall mine plan, re-evaluate the previous operations on the Drain Lease and redesign and upgrade pit operations, and strip and prepare ground for the 1984 and 1985 mining operations. In particular, the state of development of the Drain Lease pit resulted in a major time and cash commitment to redesign the pit access, berms and sideslopes to provide greater efficiency with a larger operation. Production from the Drain Lease recommenced about July 15th and ended for the season on October 12th, 1984.

A total of 456,000 cubic yards of overburden was stripped during 1984 leaving sufficient pay gravels exposed for the 1984 mining season and the majority of the 1985 mining season. Stripping was performed by an earth moving contractor at a cost of \$2.25 per cubic yard.

A total of 150,000 cubic yards of material was mined and Of this, approximately 80,000 cubic yards of material during known to be of marginal grade was sluiced because it had to be clean up the pit and it was anticipated that the recovery would the cost of removal, which it did. Another 30,000 cubic yards of grade material from above the west side of the channel was mined because previous operator, who did not have the advantage of drilling information, stripped this area thinking there was a split tertiary channel, and it became necessary to move this material to keep the pit properly organized (there was no split at this location). Gold recovery from this area was much less than the average grade assigned to the deposit but because there was no stripping cost incurred by Genie in this area mining and sluicing this material more than paid for the cost of processing. Mining was performed by the same earth moving contractor who performed the stripping at a cost of \$5.00 per cubic yard.

Near the end of the 1984 season the stripping program had exposed the main channel and the mining operation was conducted directly in the tertiary channel. Gold recovery was consistent with the drill indicated grade which provided Genie management with confidence in the results of the 1983 drill program. The majority of gold recovered during 1984 was from this main tertiary channel area.

In total 3290 ounces of gold were produced during 1984. Gold production was less than was projected for the year because of a late start and the necessity to remove large amounts of material from the pit that was not tertiary channel material (waste material that was left in the pit and sloughage from the pit walls).

During 1985 the Drain Lease Mine was not in operation due to delays negotiating the major financing required to place the production. Work on the property consisted of a full large scale stripping program on the upper leases of the property which consisted of removing 350,000 cubic yards of overburden worth approximately \$800,000.00, a bulk sample test on the upper leases and construction of removing groundwater drain. Results from the bulk sample test on the leases of the property were very encouraging. The test indicated that qold recovery from a simulated production situation utilizing a recovery plant similar to the new unit proposed by the Company was higher than the drill indicated grade. This information is important reasons: (1) it again confirms the drill results and indicates that the grade of the tertiary channel is consistent throughout the entire structure, and (2) a unit similar to the proposed new recovery works very efficiently when processing material from the Otter tertiary channel.

At this time, development of the Otter Creek project is very far advanced. A great deal of ground preparation, in the form of stripping and pit reorganization, has been completed and the management of Genie Resources Ltd. feels that the property is properly prepared for an efficient large scale open pit mining operation.

GEOLOGY

From 1896 to 1981 the total recorded production from the Atlin Placer camp is stated as 745,738 crude ounces of gold. In effect this was 19.1 % of the total British Columbian placer production. Otter Creek itself is recognized as producing, up to 1945, some 22,135 ounces of gold ranking #6 among the Atlin Placer producers.

The geological record of deposition begins with schists and gnelsses of the Yukon group of Pre-Permean times. Following folding and metamorphism, bodies of quartz monzonite intruded the metamorphosed formations. Overlying these altered rocks are sedimentary rocks of the Cache Creek group thought to have been emplaced during the Permean era and folded into the traditional northwest trend. The Atlin ultramafic intrusions are simultaneous or slightly later than the Cache Creek rocks.

Following several marine depositions, the Coast intrusions were emplanted followed closely by the Surprise Lake batholith of Jurassic times.

Locally the favourable bedrock consisting of argillites, quartzites and altered limetone interbeds are referred to as the "Gold Series." These favourable formations underlie the placer claims of Genie Resources Ltd.

Atlin Placer Geology

The Atlin placer camp is here compared with the world recognized Klondike gold camp.

- 1) The Klondike produced about 10 million ounces in some 90 years of relatively continuous activity. Atlin within the same span of time but with more intermittent production recorded 750,000 ounces from a much smaller productive area.
- 2) The average Klondike pay gravel has been estimated at about 0.01 ounces gold per cubic yard, as opposed to the presumed 0.05 to 0.08 gravels of the Atlin camp.
- 3) Klondike creeks have not undergone glaciation therefore the pay loads are relatively shallowly buried. Atlin creeks were glaciated with the result that the old Tertiary channels are found at 50° to 200° depths below the later gravels.
- 4) Klondike gravels are in permafrost while Atlin gravels are relatively unfrozen.
- 5) At Atlin the pay gravels contain large numbers of good size boulders while the Klondike gravels include very few large boulders.
- 6) Klondike gold is much finer than that at Atlin but larger nuggets have been recorded from the Atlin camp. Little or no flour gold is known in the Atlin camp.
- 7) Dredging in the Atlin camp was unsuccessful due to the boulder concentration while the Klondike dredges made large recoveries.
- 8) In the Klondike creeks, the prime underlying rock formation was a homogeneous "Klondike Schist" formation. In the Atlin creeks the rocks are more varied and the layered rocks act as natural riffles in the entrapment of the heavy gold particles.

On Otter creek in the Atlin area the bedrock, according to M.D. Kierans, consists of highly foliated and altered peridotite, layered sediments, argillites, cherts and baked limestones. This foliation reacting to water pressure would fracture and form natural riffles which trapped the gold to rock depths as much as twelve feet. Other pay gravels are composed of three and, in some places, four layers of cobble - pebble till, crudely stratified and separated by coarse sand layers of variable thicknesses. These layers are below a heavy clay zone of some forty feet thickness. Above the clay is another forty to fifty feet thickness of unsorted cobble-pebble till of unaccounted gold content, but presumed to be low.

The buried Tertiary deposits lie to the east of the present day channel but appear to coincide with the present Otter Creek channel approximately a mile and a quarter upstream from the lake.

PROSPECT DRILLING

The first drilling on Otter Creek was carried out during 1939-1940 by Atlin Placers Ltd. In a series of six sectional fences the company covered a distance of 9500 feet of upstream placer channel. The first series of holes was some 400 feet upstream from the underground drifting area. Prior to the drilling, prospecting had taken the form of shaft sinking with variable successes. Refer to Figure 3 for approximate locations.

The drilling, was initiated using a Union Drill with 6 3/8" OD shoe and 4 7/8" ID casing but finished with a Keystone 71 drill using a 7 1/2" shoe and 6" ID casing.

The first line -A- had 5 drill holes across it which failed to show a continuation of values either in the upper gravels or on bedrock, however uncertainty exists as to whether bedrock was reached in some of the holes.

Line 3 Extra, some 2100 feet further up creek from Line A had a single hole which aggregated 0.028 oz. gold across its 83 foot length.

Line 3, 385 feet further upstream, had a group of 9 holes cover a span in excess of 200 feet. The section indicates a definite bedrock channel with hole # 6A having the highest value of 0.026 oz. gold over its 108 foot depth.

Drill line # 1, located 1000 feet upstream from the # 3 line or 3900 feet from the drifting operation, consisted of 5 holes all penetrating through to bedrock. Hole # 5 was the most successful cutting 0.074 ounces gold through its 85 foot length. Over 90 % of the values in the form of coarse gold were concentrated at bedrock elevation.

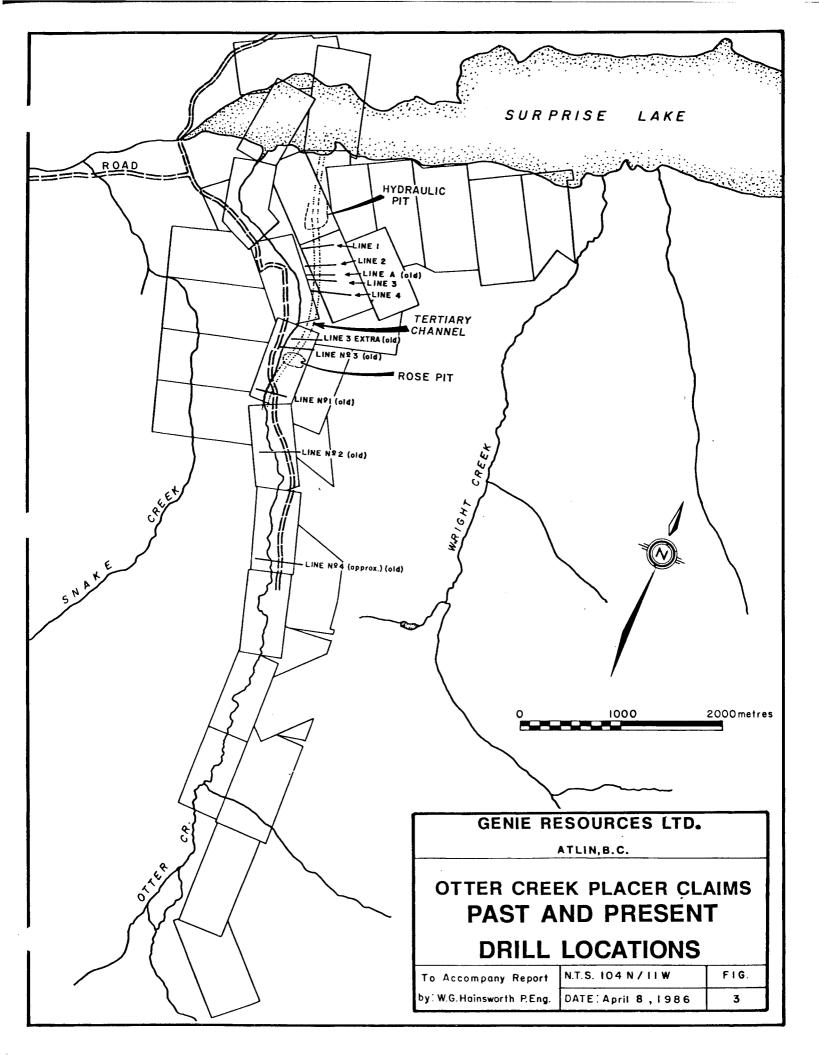
Lines 1 & 3 are in the PML 1702 area and it is likely that the small hydraulic Rose pit lies closeby.

Drilling on line # 2, 1100 feet further upstream, proved inconclusive. The values as light as they were, were also consistent through to a depth of 44 feet. A second hole 400 feet west on this line was seemingly out of the Tertiary channel.

A sixth line termed line #4 is thought to be better than 1000 feet further upstream. 8 holes showed sporadic and irregular values with concentrations again lying close to or on bedrock.

The 1939-40 drilling shows concentrations of values existing in a narrow bedrock channel for a distance of 2500 feet, across the PML 1702 claim and upstream well into PML 1699. In addition there were located irregular intermediate pay horizons.

The war and subsequent downturn in gold mining kept activity quiet until the 1970's.



Prior to acquiring the bulk of the claims on Otter Creek, Genie Resources Ltd. opened a strong overburden drilling campaign in 1983. A total OF 86 vertical holes aggregating 6092 feet probed some 650 feet of channel lying within claim 1782 and investigated the rim and benches of the hydraulic pit in PML 1697. In addition five section lines were drilled in PML 1702. In each of the lines difficulty was experienced with boulders, bent casings and bad ground with the result that 41 holes (48%) aggregating 3312.6 feet (54%) achieved their target of penetrating through to bedrock.

All overburden penetrated was sampled normally in 6 feet lengths, weighed, screened to minus 1/4" and then sluiced in a pulsating riffle box before being panned to the final result. The resulting gold collection was weighed, calculated to ounces per cubic yard and then factor adjusted (1.5) as is prevalent in the Atlin area. The final figure was not reconciled for fineness (800 in the Atlin placers).

It is obvious from the drilling that a good amount of gravel overlies the variable bedrock topography and that several pay horizons lie throughout these thicknesses, in addition to existing at the bedrock contact. The assay logs do not refer to the glacial till depths. See drill logs, schedule A.

Line 1, located 180 feet south from the pit edge had 6 holes of the attempted 13 holes reach bedrock. The holes aggregated 125.5 feet of pay horizon at a grade of 0.10012 ounces gold per cubic yard.

Line 2, 275 feet upstream from the first line had 4 of the 12 holes reach their target depth - bedrock. A total of 80.5 feet of pay horizons resulted in a 0.0102 ounces of gold per cubic yard.

Line 3, lying a further 200 feet upstream had 4 of the 7 holes penetrate pay horizons through to bedrock. The holes aggregated 69.5 feet of values for a grade of 0.0233 ounces of gold per cubic yard.

Line 4, the last of the drill fences, cut across the Tertiary channel at a point 200 feet south of line 3 or some 850 feet from the pit edge. Seven holes cross sectioned the channel with 3 being located on the channel rim and 2 being stopped on boulders, well above the suspected bedrock depth. The two pay holes averaged 0.0258 ounces of gold per cubic yard with one of the holes being stopped in six feet of pay dirt grading 0.0536 ounces of gold per cubic yard.

The four cross sectioned drill lines averaged 0.0516 ounces of gold per cubic yard in placer mineral lease #1782.

A section of drill holes was spotted 160 feet North of the boundary line inside placer mineral lease #1697. The holes, collared on the shelves and the rims of the pit, intercepted some 183 feet of pay zones grading 0.0536 ounces of gold per cubic yard.

In the adjoining southern placer claim, #1702, where the small Rose hydraulic pit was located, five section lines representing 32 drill holes (1869.1 feet) followed the Tertiary channel which was swinging westward to underly the present day creek bed. 14 of the holes reached bedrock with 5 of them showing exceptionally weak results (rim?) in line 3. The intercepts of the five lines are:

line 1 - 94 feet of 0.0475 line 2 - 56 feet of 0.0542 line 3 - 24 feet of 0.0428 line 4 - 56 feet of 0.0638 line 5 - 18 feet of 0.0075

The resultant average of the drilling in this lease is 0.0493 ounces of gold per cubic yard.

The 1983 drilling has demonstrated a grade in the pay gravels of 0.052 ounces of gold per cubic yard. Mr. Kierans uses a figure of 0.10 in his reserve calculations, but he does not qualify it. The writer believes 0.052 to be a more realistic grade. It should be understood that this figure does not include compensation for the fineness of the gold, nor does it include refining costs of the sluiced product. On the bonus side are revenues over the average pay-outs for nugget sizes.

It is appreciated that production results in placer deposits normally exceed drill grades due to losses in drilling. On this basis the average of the drilled-off areas will, in all likelihood, vary between 0.045 to 0.070 ounces of gold per cubic yard. From past indications the higher grade would be the most likely to appear.

PAST PRODUCTION

It is virtually impossible to put a definite figure on past production from placer deposits due to the poor quality, or absolute lack of bookkeeping in the early years by small operators or leasors. For security reasons and for tax purposes the published results did not usually coincide with production from sluice boxes. Placer deposits are notorious for the disappearance of small nuggets and percentages of sluiced gold. On this basis it is difficult to evaluate a placer deposit on past performances

No figures appear on the Otter Creek deposit until 1928 when a French backed company was formed to work the hydraulic cut. During the period of 1928 to 1932, hydraulicing of the cut produced:

600,000 cubic yards = 2250 ounces of gold (0.00380z per C.Y.)

In 1932 when the first shaft was sunk from the bottom of the cut to bedrock and subsequent mining operations became underground, the report of production from 1933 to 1934:

1580 ounces of gold from unstated amounts of gravel.

The period from 1935 to 1939 when most of the production was obtained from the underground with minor amounts of hydraulic sluicing, reports state:

28,310 cubic yards = 5662 ounces of gold (0.20 oz/C.Y.)

Operations for the next few years were sporadic with prospecting by surface drilling taking precedence. It is reported that from 1939 until 1943:

1000 ounces of gold were produced from an unstated amount of gravel. During this period downstream operations from the pit by underground and hydraulic methods produced in 1941:

8000 cubic yards = 130.75 ounces of gold (0.016oz/C.Y.).

Upstream efforts, principally hydraulic in 1941 reported:

1060 cubic yards = 61.55 ounces of gold (0.058oz/C.Y.).

In 1942, a report stated:

20,000 cubic yards = 140 ounces of gold (0.0070z/C.Y.).

Activity on the creek quieted during the war and remained at a low ebb until 1980 when hydraulic action in the old cut was revived.

In the last five years three major operations in the Atlin camp have accounted for 2/3 of the camps production. An operation on Boulder Creek, another on upper Pine Creek and the previous owner of Genie Resources hydraulic pit claim, each are reputed to have accounted for 10,000 ounces of gold per year. Some 15,000 ounces of raw gold are generated by the numerous smaller operations thoughout the camp.

In 1984 after acquiring the downstream placer claims Genie Resources undertook a stripping and mining operation originating in the old hydraulic pit of PML #1697, earlier referred to as the Drain lease. Some 456,000 cubic yards of overburden were stripped exposing the underlying pay gravels. Sluicing operations saw a total of 148,646 cubic yards put through the wash plant of which approximately 80,000 cubic yard were known to be marginal but were run through on expectations of paying their removal and processing charges. 3289.78 ounces of raw gold were collected during the nine clean up periods. The calculated grade from the total throughput was 0.022 ounces of gold per cubic yard. It was considered that the marginal material (80,000) contained sufficient grade to pay for its removal (\$3.00 = 0.007oz/cy). A certain amount of gold is lost in the sluice boxes to the tailings. The writer has assumed a 50% loss in the 1984 operation.

148,646 c.y. at 0.022oz/c.y. yielded 3289.78. Some 80,000 c.y. waste at 0.007/c.y. provided 546.70 ounces gold. Therefore 68,646 c.y. of pay gravels at 0.040/c.y. supplied 2743.08 ounces of raw gold.

Lost in sluice box to tailings (50%):

Waste = 80.000 c.y. at .007 at 50% = 280 ounces

Pay gravels = 68,646 c.y. at 0.040 at 50% = 1372.92 ounces.

Total lost gold = 1652.92 ounces

Therefore total gold in gravels

= 2743.08 (Recovered) Plus 1652.92 (Lost)

= 4396.0 Ounces

Initial grade of pay gravels = 4396.0/68,646 = 0.064 ounces of gold/c.y.

It is appreciated that this grade is low but in reality the gravel collection was obtained from areas where underground workings of the late 1930's had high-graded the four pay zones in the gravels. Were it not for these prior operations the grade of the pay gravels could run considerably above the calculated grade.

The calculated mining grade (0.064) is in the higher range of the drill calculated grade and substantiates this percentile grouping.

PAST EXPENDITURES

The company in 1984 conducted a trial mining operation on their placer leases. During 1985, little work was done due to a policy and organizational adjustment. The following operating expenses have been supplied by the company.

Exploration, Development & Mining Expenditures

	<u>1984</u>	<u>1985</u>
Engineering & Geological Reports	40,300.38	10,714.85
Equipment Rental and Storage Equipment Repairs	60,304.60 16,921.45	700.00
Field Expenses	23,800.90	390.00
Licences & Assessments	3,700.00	1,975.00
Stripping & Mining Contract * Camp Supplies	1,914,954.42 4,638.58	
Travel	18,125.50	3,464.06
Wages	169,066.33	
	0 051 010 16	15 042 01
	2,251,812.16	17,243.91

^{* (}Including deferred portion \$1,548,374.71. For breakdown of these figures see Appendix "B".)

MINERAL RESERVES

In the true sense none of the reserves calculated for the Genie Placer claims can be interpreted as being proven ore. That particular area in which underground mining has been carried out could be classified as probable ore in that only one of the three dimensions (length) has been defined. By definition, reserves are materials from which tonnage is computed from dimensions revealed in outcrops, trenches, workings and drill holes and for which the grade is computed from the results of sampling. Furthermore, the material must be demonstrably mineable at a profit, requiring an accurate knowledge of feasible mining methods and costs, processing expenses and recoveries. The data from which ore reserves are estimated must meet certain standards of quality and detail.

The writer suggests that there is not enough data from operations of the past either on Otter Creek specifically or Atlin area generally, to apply certain criteria to these specific mineral reserves. As a consequence the mineral reserves on Otter Creek must be entered into the drill-indicated category. Areas lacking drilling but appearing to have geological continuity are applied to the possible or geologically inferred category. (Refer to figure 3a).

Drill Indicated Reserves - Placer Mineral Lease 1782.

This claim had four fences of vertical cross sectional drill holes completed in 1983. Line 1, because of the southward extensions of the underground workings, could be categorized as "proven ore". For reasons of consistency the writer placed it, as with the other drill lines, in the "drill-indicated" category.

From the pit edge to 100 feet south (upstream) from line 4 in this claim, a length of 960 feet, drilling has shown an average width of pay gravels of 60 feet to exist. The Tertiary channel width may vary but for calculations has been standardized at 150 feet.

In claim 1782 there is a total of drill-indicated reserves of 320,000 cubic yards.

Placer Mineral Lease 1702

Five fences of drill holes presumably covered a minimum quarter length of this claim or 800 feet. Drilling identified 2 pay horizons in the gravels, one at bedrock and another lying up to 40 feet above bedrock.

A drill-indicated reserve of 125,000 cubic yards of material lie within this section.

Placer Mineral Lease 1697

This is the original hydraulic area which also contains the underground drift work. From the pit North (downstream) drilling has identified values lying at bedrock elevation and extending up into overlying gravels.

The depth and width of the old channel is as previously outlined but its lateral extent is materially shortened due to lack of supporting data. The strike length of 200 feet contains a 60 foot gravel depth in the 150 foot wide channel.

Drill-indicated reserves in PML 1697 approximate 70,000 cubic yards.

Tailings Pile

In a memorandum dated June 17, 1984, the project geologist M. D. Kierans, comments on their sampling of this large rock pile. Some 43 samples averaging 125 pounds indicated from his sampling a values "as high as \$15.00/C.Y." This is a grade of 0.033 at \$460 gold Canadian. He hesitates to put a definate grade figure on the pile while advocating drilling of the gravel mass. From figues advanced in the memo, the dimensions of 850 feet, 50 foot depth and 100 feet of width would allow a volume of 150,000 cubic yards to be assigned to this tailings pile.

During the 1984 mining operation, it is estimated that some 125,000 cubic yards was added to this reserve.

<u>Possible Reserves</u> <u>Placer Mineral Lease 1782</u>

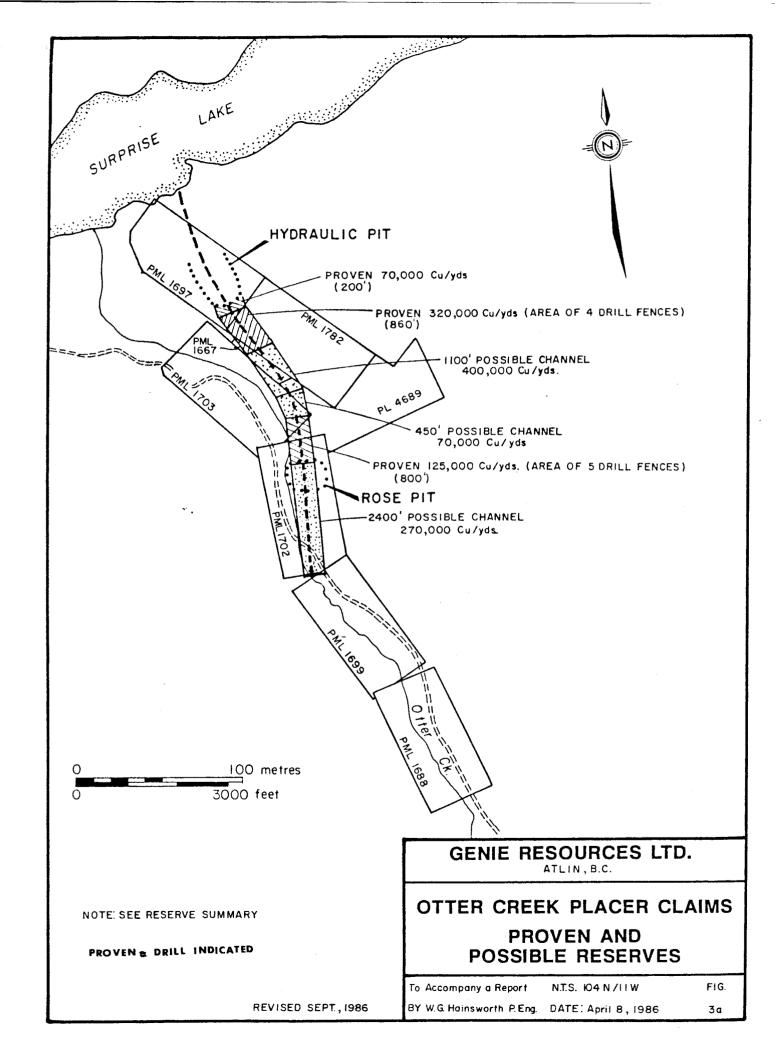
From the end line (line 4) of the 1983 hammer drilling to the end of this claim is an extent of some 1100 feet of possible channel gravels. Utilizing the same dimensions as previously, this makes for some 400,000 cubic yards of possible pay gravels.

Placer Mineral Lease 1702

North - A section of possible channel material, some 450 feet in length, is wedged between claims 1702 and 1782. There is a possible volume of 70,000 cubic yards.

South - As only 1/3 of this claim was drilled off, a possible channel length of 2400 feet exists where the old Tertiary channel swings back to underlie the present day channel. The uncertainties which exist here as to depth of pay gravels and width of the channel allow for a certain trepidation in allotting the yardage. Leaning to the conservative side, the writer allocates a 30 foot thickness and 100 foot channel width. This indicated a geologically promising zone of possibly 270,000 cubic yards.

Summary	of Reser	rves			
Block	Drill	Indicated	Possible	Grade	Ounces
1782		320,000		.080	25,000
			400,000	.078	31,200
1702		125,000		.075	9,375
			340,000	.075	25,500
1697		70,000		.080	5,600
Stock	Pile	175,000		.033	5,775
Total			1,530,000 C.Y.		103,050



MINING PLAN

The 1984 operation developed from the hydraulic pit saw some 400,000 cubic yards of overburden and glacial till debris stripped in advance of planned mining operations. See Figure 4.

It is proposed to continue stripping in the coming season with mining following behind. Stripping rates of 6000 cubic yards per day and mining production rates up to 3000 cubic yards per day are projected, the latter during a 100 day season. Stripping will begin earlier under a contractor.

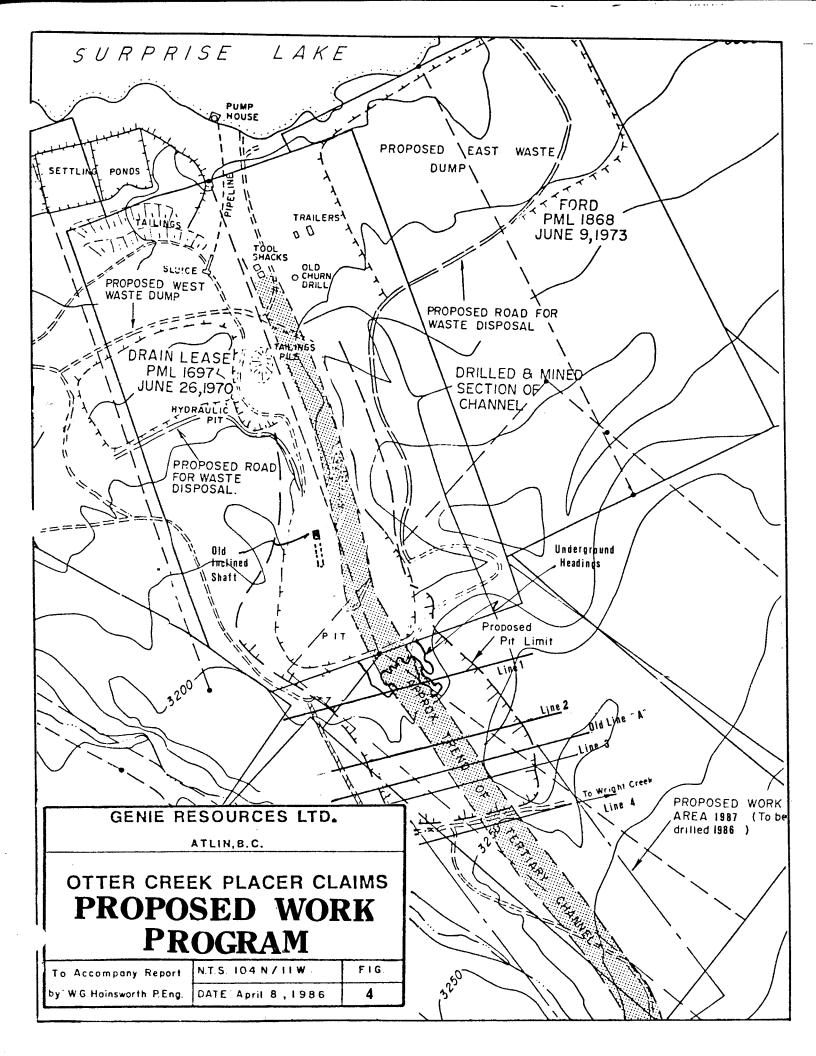
The company's projections show that mining and processing of the proposed 250,000 to 300,000 cubic yards of pay gravels should return a recovery of 15,000 to 20,000 ounces of placer gold. Immediately available to the company is 20,000 cubic yards of pre-stripped pay gravel near the boundary of the hydraulic pit claim and the adjoining upstream leases.

In addition the proposal advances the intention of the company to contract out the mining of the pay gravels to the point of delivery of the washing plant hopper.

It is the intention of the company to acquire a local operational recovery plant and install it in place of the present, poorly designed system. This should lead to improved recovery grades.

The washing plant will consist of a grizzly, with pulsating water jets, which will separate the minus four inch material from the oversize and send the smaller size to a screen arrangement where it will be sorted into two sizes, the minus 1 inch and the minus 1/4 inch. The more coarse, minus 1 inch will go into a short sluice box designed to retain gold nugget sizes. To accommodate the large amounts of minus 1/4 inch material there will be three sluice boxes with pulsating riffles.

The wash plant will be staffed and operated by the company. The system is designed to process up to 300 cubic yards per hour.



CONCLUSION

During the 1984 operations, the company successfully offset some of its costs through gold revenues while getting "the feel" of mining the Tertiary channel beds. The weak returns from the sluice boxes underscored the importance of establishing a dependable processing plant. This has been rectified with the intended purchase of a modern, viable wash plant from one of the local operations.

Genie Resources Ltd. is now well placed to develop Otter Creek, with 1984 being regarded as the start-up phase. Careful supervision by well qualified personnel is recommended to make the venture a success.

The grade (0.07) developed by the earlier drilling (0.052) plus that due to drill loss (0.018) should allow the company to mine gravels from which a profit can be won.

There are enormous amounts of untested gravels lying upstream from the present workings.

Respectfully submitted,

W. G. Hainsworth, P.Eng.

CERTIFICATE

- I, W.G. Hainsworth, P. Eng., Vancouver, British Columbia do hereby certify:
- (1) That I am a Consulting Geologist residing at 836 West 13th Avenue Vancouver, British Columbia.
- (2) That I am a graduate of the University of Western Ontario, London, Ontario, Bachelor of Science Degree, Honours Geology.
- (3) That I have practiced my profession for some 30 years.
- (4) That I have been a continuous member of the Association of Professional Engineers of British Columbia since 1965 and am a Professional Geologist registered with the Association of Professional Engineers, Geologists and Geophysicists of Alberta since 1979.
- (5) That I have no financial interest, direct or indirect, in GENIE RESOURCES LTD., and do not expect to obtain any such interest.
- (6) That the information contained in this report is based on a March 28th-29th 1986 visit to the ATLIN property of GENIE RESOURCES LTD. and perusal of all pertinent data pertaining to the past and present operations.
- (7) That consent is herewith given to GENIE RESOURCES LTD to use any or all material from this report in information circulars, offerings or shareholders brochures.

To Accompany:
Report on the Otter Creek
Gold Placer Claims
Surprise Lake Area
Atlin Mineral Division, B.C.
for GENIE RESOURCES LTD
North Vancouver, B.C.
April 14, 1986
Amended October 5, 1986

W.G. Hainsworth P. Eng. (B.C.) P. Geol. (Alta)

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APPENDIX A

DRILL SAMPLE SLUICING AND PANNING RESULTS : OTTER CREEK DRILLING PROJECT

FROM FEET	to Feet	INTERVAL Peet		MOISTURE RELATIVE		MILLIGMS	GRAVEL L8S/C.Y.	GOLD WT. GRAMS	GOLD WT. OZ./C.Y.		GRADE OZ/C.Y	ADJUSTED
50-83-14	 \											
14	24	10	10	N/A	240	17.3	3500	. 252291	7 .0080986	.0809856		7.3 x75 1 2 (22) 11
24	34	10	20	N/A	240	4.6	3500			.0215337		200 41000
34	44	10	30	N/A	240	43.7	3500			.2045706		
44	54	10	40	N/A	240	. 2	3500	.002916	7 9.362R-5	9.362E-4		the second second second second
54	64	10	50	N/A	240	1.8	350 0	.0262500	9.426E-4	.0084262		*
64	74	10	60	N/A	240	35	3500	.510416	7 .0163844	.1638437		- , ** 1
74	84	10	70	N/A	240	35 71.6	3500			.3351775		
8 4	88	4	74	N/A	100	12.8	3500	.448	.0143808	.0575232		
0	68	88	88							.8729969	0	0
64	88	24	24							.5565444	.023189	4 .0347840
50-83-2						•						
. 52	56	4	4	DAMP	58	14.2	3500	856896	. 0275064	.1100255		
56	68	12	16	DAMP	191	.1	350 0			7.059E-4		
68	76	8	20	DAMP	192	2.8	3500			.0131075		
76	86	10	30	DAMP	221	10	3500			.0508371		
86	94	8	38	DAMP	240	56.4	3500			2112180		
86	94	8	8							.211218	.026402	2 .0396033
SO-83-3/												
100	102	2	2	DRY	45	. 8	3500	062222		.0039947		
102	104	2	à	DRY	18	. 2	3500			.0034967		
104	106	2	6	DRY	40	. 2	3500			.0011235		
100	106	. 6	6							0075110		
100	100	• •	0		•					.0076148	.001269	1 .0019037
90-63-4	•											
70	. 74	4	4	DRY	54	6.2	3500	.4018519	0128994	.0515978	.012899	5.0193492 Less
50-83-54												
60	64	4	4	WET	88	. 1	3500	. 00 39 77	1 1.277F-4	5.107E-4		
64	68	4	8	DRY	99	.5	3500			0022697		
68	72	4	12	DRY	140	421.2	3500			1.352052	+	
72	76	4	16	DRY	104	3	3500			.0129635		
76	80	4	20	DRY	123	2.9	3500			.0105956_		
80	81.5	1.5	21.5	DRY	62	2.1	3500			.0057081		
68	81.5	13,5	13.5							•		.1595219 8-71

PROM Feet	TO PEET	INTBRVAL Feet		MOISTURE RELATIVE				GOLD WT.		FEET*GRADE	INTRVL FACTOR GRADE ADJUSTED OZ/C.Y.GRADE OZ/C.Y.	
50-83-5												-
60	64	4	4	WET	87	1.3	3500	.0522989	.0016788	.0067152		
64	68	4	8	DAMP	97	2.4	3500			.0111192		
68	72	4	12	DRY	104	. 9	3500			.0038890		
72	76	4	16	DRY	114	313.2	3500			1.234667		, .
60	76	16	16							1.256391	.0785244 .1177866	1,5
SO-83-6												
52	58	6	6	DRY	152	1.2	3500	0276316	8 870P-4	.0053218		
58	64	6	12	DRY	241	. 2	3500			5.594E-4		
64	70	6	18	DRY	132	. 9	3500					
70	76	6	24	DRY	150	2.3	3500			.0103362	per en relati	
76	02	6	30	DRY	228	4	3500			.0118263	• /	
82	86	4	34	DRY	81	1.5	3500			.0083222		
86	92	6	40	DRY	50	. 6	3500	.042		.0080892	r# c+et	for 1
52	92	40	40						·	.0490513	.0012263 .0018394	1 form
so- 8 3-7												
56	62	6	6	DRY	201	.5	3500	.008706	2.795E-4	.0016769	-	
62	68	6	12	DRY	184	. 1	3500			3.664E-4		
69	72	4	16	DRY	107	1.1	3500			.0046200		
72	74.5	2.5	18.5	DRY	101	6.2	3500			.0172418		, .
56	74.5	18,5	18.5							.0239051	.0012922 .001938	7.1
SO-83-8	۸					•						
56	68	12	12	DRY	255	2.1	3500	.0288235	9.252E-4	.0111028		
68	80	12	24	DR Y	327	8.4	3500			.0346327		
80	86	6	30	DRY	167	. 3	3500			.0012110		
86	92	6	36	DRY	127	7.7	3500			.0408706		
92	94	2	38	DRY	66	. 8	3500	.0424242	.0013610	.0027236		
56	94	38	38							.0905407	.0023827 .0035740)
86	94	8	8							.0435943	.0054493 .0081739	•
SO-83-9		0	0									
90	93	3	3	DRY	75	4 =	3500	3100000	0063415	0202226		
93	98	5	8	DAMP	106	4,5	3500 3500			.0202230		
98	102	4	12	DAMP	96	6				.0117972		
102	106	Ä	16	DAMP	77	33.3 63.2	3500 3500			.1558856		
106	108	2	18	DAMP	64	34.B	3500 3500		.0922145 .0610903	.1271806		
9.0	108	18	18			*						

PAGE 3
DRILL SAMPLE SLUICING AND PANNING RESULTS : OTTER CREEK DRILLING PROJECT

Prom Feet	TO FEET	intrrval Febt		MOISTURB RELATIVE				GOLD WT.		Feet * Grade		ADJUSTED
50-01-9	в											*
82	88	6	6	DRY	108	. 2	3500		5 2.081E-4			
8.8	94	6	12	DRY	195	68.1	3500		8 .0392361			
94	100	6	18	DRY	122	53.2	3500		0 .0489920			
100	107	7	25	DRY	245	85.8	3500	1.22571	4 .0393454	.2754180		
107	112	5	30	DRY	209	56.1	3500	.939473	7 .0301571	.1507855		
112	118	6	36	DRY	137	4.7	3500	.120073	0 .0038543	.0231261		
110	124	6	42	DRY	109	25.6	350 0	.822018	3 .0263868	.1583207		
124	130	6	48	DRY	86	29.5	3500	1.20058	1 .0385387	.2312320		
130	135.5	5.5	53.5	DRY	234	164.1	3500	2,45448	7 .0787890	.4333397		
135.5	140	4.5	58	DRY	49	151.7	350 0	10.9785	7 .3524121	1.585855		
140	146	6	64	DRY	53	103.9	3500	6.86132	1 .2202484	1.321490		
146	154	0	72	DRY	165	123.1	3500		2 .0838199			
154	160	6	78	DRY	43	15	3500		0 .0391919			
160	166	6	84	DRY	95	2.5	3500	.092105	3 .0029566	.0177395		
88	166	78	78							5.632305	.072210	1 .1083151
0-83-1				•								
90	96	6	6	DRY	192	1.5	3500	.027343	7 8.777E-4	.0052664		
90	96	6	12							.0052664	.002633	2 .0036865
50-83-1	1											
94	96	2	2	DRY	47	. 2	3500	.014893	6 4.781R-4	9.562R-4		
94	96	2	2							.0009562	.000478	1 7,172E-4
30-83-1	2											
104	106	2	2	DRY	58	3.8	3500	. 229310	3 .0073609	.0147217		
106	106	2	4	DRY	43	. 4	3500		1 .0010451			
108	112	4	8	DRY	132	. 3	3500		5 2.55JE-4			
112	114	2	10	DRY	36	.6	3500		3 .0018725	•		
104	114	10	20							,0215783	.002157	8 .0032367
50-63-1												
96	101.5	5.5	5.5	DRY	141	72.8	3500	1.80709	2 .0580077	.3190421		
96	101.5	5.5	5.5							. 3190421	.058007	7 .0870115
50-83-1	4											
100	104	4	4	DRY	113	44.5	3500	1.37831	9 .0442440	.1769761		
104	106	2	6	DRY	108	8	3500		3 ,0083222			
100	• • •	_	_									
100	106	6	6							.1936206	.032270	1 .048405E

Line

PAGE 4

DRILL SAMPLE SLUICING AND PANNING RESULTS : OTTER CREEK DRILLING PROJECT

PROM PEET	to Feet	FEET	INTERVAL	RELATIVE	WEIGHT LBS	MILLIGMS	GRAVEL LBS/C.Y.	GOLD Wr. GRAMS	GOLD WI.	FEET*GRADE	GRADE OZ/C.Y.	ADJUSTED
50-83-	L3A											
92	97	5	5	DRY	195	. 1	3500 3500	.0017949	9 5.762E-5	2.881E-4		
97	102	5	10	DRY	226	58.2	3500	.901327	.0289326	.1446631		
102	108	6	16	DRY	194	2.6	3500		2 .0015057			
108	114	6	22	DRY	132	. 1	3500		5 0.511e-5			
114	120	6	28	DR Y	224	. 8	3500		4.013E-4			
120	126	6	34	DRY	222	35.5	3500		7 .0179659			
126	132	6	40	DRY	162	12.3	3500	-	7 .0085303			
132	138	6	46	DRY	90	. 7	3500		2 8.738E-4			
138	144	6	52	DRY	93	.1	350 0		1 1.208E-4			
144	150	6	58	DRY	111	. 1	3500		2 1.012E-4			
150	156	6	64	DRY	57	. 1	3500		1 1.971E-4			
156	162	6	70	DRY	169	.1	3500		0 6.648E-5			
162	168	6	76	DRY	83	.1	3500		9 1.354E-4			
168	174	6	82		114	1.6	3500		.0015768			
174	180	6	88	DRY	04	. 9	3500		0015799			
100	183.5	3.5	91.5	DRY	79	2.3	3500	.101898	7 ,0032709	.0134483		
97	132	35	35							.3155925	.010519	8 .015779
132	103.5	51.5	51.5							.0393577	7.642E-	4 .001146
114	132	18	18							.1613844	.008965	B .01344R
CO 81	16											
50-83- 98	104	6		DB.V	105	4.3	1500	070450		0161010		
104	112	8	6 14	DRY	185 77		3500		5 .0025506			
112	119	6	20	DAMP DAMP	125	.4 2.8	3500 3500		8 5.836E-4 0025166.			
118	122	4	24	DRY	174	23.2	3500			.0599200		
				D. I	174	23.2	3300	. 100000				
98	122	24	24							.0949928	.003958	0 .005937
so-83-	16A											
48	54	6	6	WET	146	. 4	3500	.009589	0 3.078E-4	.0018468		
54	60	6	12	DRY	214	3.4	3500		5 .0017850			
60	66	6	18	DRY	202	1.8	3500		1 .0010011			
66	72	6	24	DRY	231	1.6	3500		4 7.782E-4			
72	78	6	30	DRY	201	. 7	3500		1 3.913E-4			
78	84	6	36	DRY	214	1.3	3500		7 6.825E-4			
84	90	6	42	DRY	250	. 9	3500	.0126	4.045E-4	.0024268		
90	92	2	44	DRY	80	10.7	3500	.468125	.0150268	.0300536		
50-83-	17											
86	92	6	6	DRY	232	. 4	3500	. 006034	5 1.937E-4	.0011622		
92	96	4	10	DRY	140	3.8	3500	.095				

Pret Pret	TO FE ST	INTERVAL FEET		MOISTURE RELATIVE			GRAVEL.		GOLD WT:	FEET*GRADE		ADJUSTED
50-83-19	98											
SPECIAL						2.3						
	1,2,3.					39.7						
38	4.4	6	6	DRY	101	. 6	3500	.0207921	6.6748-4	.0040046		
44	50	6	12	DRY	104	. 1	3500	.0033654	1.080E-4	1 6.482E-4		
50	56	6	18	DR Y	185	.5	3500	.0094595	3.036E-4	.0018219		
56	62	6	24	DRY	161	1.4	3500	.0304348	9.770E-4	.0058617		
62	68	6	30	DRY	165	. 2	3500			8.171E-4		
60	74	6	36	DRY	206		3500			.0045813		
74	78	4	40	DRY	270	10.5	3500	.1361111	.0043692	2 .0174767		
38	78	40	40							.0352114	8.803E-	.0013204
80-83-10	ı.											
70	76	6	6	DRY	153	3.9	3500	UBG31E.	7 0028636	.0171829		
76	82	6	12	DRY	223	13	3500			.0392973		
0.2	88	6	18	DRY	217	308.8	3500			9592723		
88	94	6	24	DRY	242	465.2	3500			1.295832		
94	100	6	30	DRY	263	8.1	3500			.0207613		
70	100	30	30							2.332346	.077744	9 .116617
50-83-19	9											
78	84	6	6	DRY	115	. 3	3500	.0091304	1 2.931E-	.0017585		
84	90	6	12	DRY	147	. 1	3500			4.586E-4		
90	96	6	18	DRY	276	3	3500			.0073272		
96	102	. 6	24	DRY	234	22,3	3500			.0642412		
78	102	24	24							.0737854	.003074	.0046110
80-83-20	n											
0	10	10	10	DRY	177	.7	3500	013841	4 4439-4	.0044432		
10	18	8	18	DRY	125	2.5	3500	.07		.017976		
10	24	6	24		120	. 1	3500			5.6178-4		
24	30	6	30	DAMP	115	4.9	3500			.0287225		
30	36	6	36	DRY	170	2.1	3500			.0083271		
36	42	6	42	DAMP	190	9.5	3500			.0337050		
42	48	6	4.8	DAMP	160	79.9	3500	1.74781	3 .0561046	3 .3366287		
48	52	4	52	DAMP	204	47.3	3500	.8115190	.0260498	.1041991		
52	58	6	58	DRY	164	12.5	3500	. 266760	.0085633	3 .0513796		
58	64	6	64	DRY	115	1.3	3500	.0395652	2 .0012700	.0076203		
64	66	2	66		80	. 1	3500			1 2.809E-4		
66	70	4	70	DRY	75	. 1	3500	.004666	7 1.498E-0	1 5.992E-4		
70	76	6	76	DRY	184	26.3	3500	.5002713	7 .0160587	7 .0963523		
76	80	4	80	DRY	259	15.3	3500	. 206756	,0066369	.0265476	•	
0	80									.7173432	.0089668	3 .013450
24	64	40	40									

PROM FEET	to Pert	interval Fert	CUMUL'TE INTERVAL	MOISTURE RELATIVE	Sample Weight LBS	GOLD WT, MILLIGMS	WT. OF GRAVEL LDS/C.Y.	ADJUSTED GOLD WT. GRAMS	ADJUSTED GOLD WI. OZ./C.Y.		INTRVI. GRADE OZ/C.Y.	ADJUSTED
SO-83-	21											
6 B	74	6	6	DRY	289	.1	3500	.001211	1 3.8882-5	5 2.333E-4		
SO-83-	22											
0	7	7	7	DRY	24	. 1	3500	.014583	3 4.681E-4	.0032769		
7	10	3	10		60	. 1	3500		3 1,8728-4			
10	16	6	16	DRY	142	1.4	3500	.034507	0 .0011077	7 .0066461		
16	22	6	22	DRY	77	. 1	3500		5 1.459E-4			
22	28	6	28	DRY	188	. 8	3500	.014893	6 4.781E-4	.0028685		
28	34	6	34	DRY	174	23.4	3500		7 .0151091			
34	40	6	40	DRY	305	90.7	3500		0 .0334103			
40	46	6	46	DRY	149	11	3500		3 ,0082943			
46	54	8	54	DRY	109	7.5				.0618440		
54	60	6	60	DRY	187	. 5	350 0			.0018024		
60	66	6	66	DRY	159	2.5	3500			.0105991		
66	73	7	73	DRY	331		350 0		9 ,0012559			
0	73	73	73							.4381477	.0060020	.0090030
28	54	26	26							.4027265	.0154895	.0232342
SO-83-	71											
0	14	14	14	DRY	110	. 1	3800	002454	S 1 100P-	.0015525		
14	22	8	22	DRY	136	4.4	3800			2 .0311137		
22	20	Ğ	28	DRY	149	151.6	3800		9 .1241085			
28	34	6	34	DRY	176	52,2	3800			2 .2170690		
34	40	6	40	DRY	252	47.6	3800			1.1382440		
40	46	6	46	DRY	189	53.8	3800			.2083341		
46	52	6	52	DRY	102	43.5	3800			.3121253		
52	58	6	58	DRY	151	5	3800			.0242344		
58	64	6	64	DAMP	240	. 5	3800			.0015247		
64	70	6	70	DAMP	272	. 2	3800			5.381E-4		
70	- 76	6	76	DAMP	108	. 1	3800			6.777E-4		
76	80	4	00	DAMP	114	. 1	3800		1 1.070E-4			
80	86	6	86		120	, 1	3800			6.099E-4		
86	92	6	92	DRY	293	1.6	3800		9 6.661E-4			
92	98	6	98	DRY	302	2674.3 (F.G+NUG	3800			6.481016		
0	98	98	98			(F.G*NUG	,			8.166115	.0833277	.1249916
0	92	92	92							1.685099	.0183163	.027474
22	52	30	30							1.620423	.0540141	.081021

FROM FBET	TO PEST	interval Peet		MOISTURB RELATIVE		MILLIGMS	GRAVEL LBS/C.Y.	GOLD WT. GRAMS	GOLD WT.		GRADE OZ/C.Y.	ADJUSTED
SO-83-	24											
38	44	6	6	DRY	176	1.4	3800	.030227	3 9.703B-4	.0058218		
44	50	6	12	DRY	151	. 1	3800	.0025166	5 8.078E-5	4.847E-4		
50	56	6	18	DRY	260	. 1	3800	.0014619	4.692E-5	2.815B-4		
56	62	6	24	DRY	203	.1	3800			3,605E-4		
62	68	6	30	DRY	243	1.4	3800	.0218930	7.0288-4	.0042166		
68	74	6	36	DRY	216	.1	3800			3.308E-4		
74	80	6	42	DRY	185	. 6	3800			.0023737		
80	82	2	44	DRY	145	12.1	3800			.0203580		
82	84	2	46	DRY	108	. 7	3800			.0015812		
84	88	4	50	DRY	301	4.7	3800			.0076187		
s0-83-	26											
0	14	14	14	DRY	85	1.1	3800	049176	5 .0015786	.0220999		
14	22	8	22	DRY	89	.i	3800			.0010964		
22	28	6	28	DRY	125	.5	3800			.0029275		
28	34	6	34	DRY	170	. 3	3800			.0012916		
34	40	ě	40	DRY	159	24.1	3800			1109328		
40	46	Ğ	46	DRY	202	. 7	3800			.0025362		
46	52	6	52	DRY	173	5.3	3800			.0224218		
52	58	6	58	DRY	492	0.1	3800			0120492	-	
58	64	6	64	DRY	103	. 8	3800			.0031995		
64	70	6	70		230	2.9	3800			.0092281		
70	72	2	72		N/A	N/A	3000	.01//13	.001930	.0072201		
72	74	2	2		N/A	i			÷			
0	70	70	70							.1877829	.002682	.004023
so-83-	27											
34	40	6	6	DRY	177	5.6	3600	.1202260	0 .003859	.0231555		
40	46	6	12	DRY	69	10.6	3800			,1124337		
46	52	6	18	DR Y	166	. 8	3800			.0035271		
52	58	6	24	DRY	357	45.6	3800			.0934838		
58	64	6	30	DRY	295	. 9	3800			.0022329		
64	70	6	36	DRY	55,8	.1	3800			1.312E-4		
34	70	36	36							, 2349642	.006526	009790
S0-83-	28											
0	6	6	6	DRY	46	3.5	3500	. 266 304	3 .0085484	.0512902		
6	20	14	20	DRY	103	4.8	3500			.0733002		
20	23	3	23	DRY	132	9.7	3500			.0247681		
0	23	23	23							.1493585	.006493	3 .009740

FROM Feet	TO FBST	intbrval Peet	INTERVAL	RELATIVE	WEIGHT LBS	MILLIGMS	GRAVEL LBS/C.Y.	GOLD WT. GRAMS	GOLD WT.		GRADE OZ/C.Y.	ADJUSTED GRADE 07/C.Y.
SO-83-	29											•
0	6	6	6	DRY	77	1.5	3500	.0681818	.0021886	.0131318		
6	14	8	14	DRY	11	. 6	3500					
14	10	4	16		80	1.5 .6 .6 51.6	3500	.1909091 .02625	8.426P-4	.0033705		
18	24	6	24	DRY	70	51.6	3500	2.58	.082818	.496908		
24	32	8	32	DRY DRY	269	25.5	3500			.0852022		
0	32	32	32	•						.6476380	.020238	7 .030358
SO-83-	10									*		
0	6	6	6	DRY	37	. 1	350 0	0094595	3.036E-4	0018219		
6	12	6	12	DRY	46	i . 6	3500			.0234470		
12	20	ě	20	D.1.5	160	1.6	3500		.0011235			
20	26	6	26	DRY	41	34.5	3500		2 .0945384			
26	32	6	32	DRY	137	10.4	3500		.0085288			
32	38	6	38	DRY	136	13.6	3500			.0674100		
30	44	6	44	DRY	156	38.9	3500		.0200155			
44	50	6	50	DRY		56.1	3500	1.34486	.0431701	.2590206		
50	56	6	56	DRY	169	13.6	350 0		.0090412			
56	62	6	62	DRY			3500			.0592498		
62	70	8	70	DRY	343	16.7 58.9	3500			.1543420		
0	70	70	70							1.415022	.020214	6 .030321
20	70	50	50							1.380766	.027615	3 .041423
SO-83-	30A											
0	6	6	6	DRY	48	1.7	3500	12395A	. 0039791	.0238744		
6	12	6	12		48	10.5	3500			.1474594		
12		· 6	18	DRY	17	4.3	3500	.885294	.0284179	.1705076		
18	24	6	24	DRY	17 45 80	18	3500	1.40000				
24	30	6	30	DRY	80	18 16.9	3500	.739375	.0237339	.1424036		
0	30	30	30							.7538850	.025129	5 .037694
so-83 -	31											
0	4	4	4	DRY	10	.1	3500	0.15	.0011235	004494		
4	10	6	10	DRY	154	4.3	3500 3500	, רנט. מרדד מח		0.0188223		
10	16	6	16	DRY		1.8	3500 3500			0113400		
16	22	6	22	DRY		4.1	1500			.0314069		
22	28	6	28	DRY	178	4.1 8.4	3500 3500			0318115		
28	34	6	34	DRY	242	.71	3500			0019777		
0	34	34	34							.0998524	.002936	8 .004405

DRILL SAMPLE SLUICING AND PANNING RESULTS : OTTER CREEK DRILLING PROJECT

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PROM PBET	TO PEET	interval Feet	CUMUL'TE INTERVAL			GOLD WT. MILLIGMS		GOLD WT.		FEET * GRADE	INTRVL PACTOR GRADE ADJUSTE OZ/C.Y.GRADE OZ/C.Y.
50-83-	32										
0	4	4	4	DRY	31	, 3	3500			.0043490	
4	10	6	10	DRY	131	4.9	3500	.1309160	0 .0042024	.0252144	
10	16	6	16	DRY	153	. 9	3500	.020588	2 6.609E-4	.0039653	
16	22	6	22	DRY	118	6.7	350 0			2 .0382752	
22	28	6	28	DR Y	224	75.8	3500			.2281106	
28	34	6	34	DR Y	267	. 5	3500	.006554	3 2.104E-4	.0012624	
34	40	6	40	DRY	244	. 5	3500	.007172	1 2.302E-4	.0013814	
40	46	6	46	DRY	271	N/A					
0	40	40	40							.3025583	.0075640 .01134
SO-83-	11										
0	. 8	8	8	DRY	140	13.1	3500	. 3275	.0105126	.084102	
8	14	6	14	DRY	207	7	3500			.0227957	
14	19	5	19	DRY	215	.4	3500			.0010451	
0	19	19	19							.1079428	.0056812 .00852
so-83-	14										
36	42	6	6	DRY	212	. 1	3500	001650	B 5 700P=1	3.180E-4	
42	48	6	12	DRY	158	. 2	3500			8.533E-4	
48	54	6	19	N/A	184	. 2	3500			7.327E-4	
54	60	6	24	N/A		. 4	3500			.0011984	
60	66	6	30	N/A	206	. 2	3500			6.545E-4	
. 66	72	6	36	N/A	225	. 2	3500			5 5.992E-4	
72	78	6	42	N/A	222	.1	3500			3.036E-4	
0	42	42	42							.0046597	1.109E-4 1.664E
s0-83 -	16										
52	58	6	6	N/A	199	.5	3500	009704	U 3 8338 ·	1 0016027	
58	64	6	12	N/A	174	4	3500			0016937 0154966	
64	70	6	18	N/A	193	.1	3500			5 3.493E-4	
70	76	6	24	N/A	192	3.9	3500			0136927	
52	76	24	24							.0312322	.0013013 .00195
SO-83-	26										
60	66	4	4	N1 / N	1 4 0	,	2500	002264	0 7 501 1		
66	69	6 3	6 9	N/A N/A	148 139	. 1 . 6	3500 3500			5 4.555E-4 1 .0014549	
						• •		• • . • . •			
60	69	9	9							.0019104	2.123E-4 3.184E

PROM PEET	TO PERT	INTERVAL PBBT	CUMUL'TE INTERVAL		-	GOLD WT. MILLIGMS		GOLD Wr.		PEET * GRADB	GRADE OZ/C.Y.	ADJUSTED
SO-83-37												
54	60	6	6	N/A	134	BLACKSAN	D	0	0	0		
60	66	6	12	DAMP	134	. 2	350 0	.0052239	1.677E-4	.0010061		
so-83-39												
0	16	16	16	N/A	147	7	3500	. 1666667	7 .0053500	.0856000		
-				•	(0-6 + 0		3300			• • • • • • • • • • • • • • • • • • • •		
16	24	8	24	N/A	128	.5	3500	.0136719	4.389B-4	.0035109		
24	30	6	30	N/A	205	i.3	3500		7.125P-4			
30	36	6	36	N/A	204	.1.	3500		7 5.507E-5			
36	41	5	41	N/A	144	.1	3500	.0024306	7.802E-5	3.901E-4		
0	41	41	41							.0085063	2.075E-4	3.112E-4
50-83-40												
0	16	16	16	N/A	44	10	3500	7954545	.0255341	4085455		
16	22	6	22	N/A	101	137.3	3500		1527293			
22	42	20	42	N/A	322	293.6	3500		.1024409	•		
THE ABOV	E VALUES	ARE SUMS		•	SAMPLES :			42, AND 20				
42	48	6	48	N/A	84	36.4	3500		7 .0486850			
48	54	6	54	N/A	225	24.6	3500		7 .0122836			
54	60	6	60	N/A	185	1.9	3500		0011539			
60	65	5	65	N/A	207	. 2	3500		1.086E-4			
0	65	65	65							3.747016	. 0576464	.0864696
16	42	26	26							2.965193	.1140459	.1710688

APPENDIX A
DRILL SAMPLE SLUICING AND PANNING RESULTS : OTTER CREEK DRILLING PROJECT

Prom Feet	TO FEET	INTERVAL PEET	CUMUL'TE INTERVAL	MOISTURE RELATIVE	SAMPLE WEIGHT LBS	GOLD WT. MILLIGMS	GRAVEL	ADJUSTED GOLD WT. GRAMS	GOLD WT.		INTRVL FACTOR GRADE ADJUSTED OZ/C.Y.GRADE OZ/C.Y.
5083-10	JA										
0	7	7	7	DRY	85	. 2	3500	.000235	3 2.644E-4	.0018505	
7	18	íı	18	DR Y	51	. 9	350 0			.0218091	
18	26	8	26	DRY	94	.2 .9 .1 .2 1.9	3500	.003723	4 1.195E-4	9.5628-4	
26	32	6	32 38	DRY	100	. 2	3500	.007	.0002247	0013482	
32	38	6	38	DRY	211	1.9	35 JO	.0315160	6 .0010117	.0060701	
0	38	38	78							.0320341	8.430E-4 .0011381
S083-19	•										
0	8		8	DRY	40	. 6	3500	. 0525	.0016853	.013482	
24	30			DRY	82	. 2	3500	.008536		.0016441	
36	42	6	6	DRY	115	. 7	3500 3500 3500 3500 3500 3500 3500			.0041032	
42	48		12	DRY	74	. 1	3500	.004729	7 1.518E-4	9.109B-4	
4.0	54		18	DRY	125	.1 .5 4.7 9.1	3500			5.393E-4	
54	60	6	24	DR Y	283	.5	350 0			.0011910	
60	66		30	DRY	232	4.7	3500			.0136563	
66	72		36	DRY	369	9.1	3500			.0166241	
72	78	6	42	DRY	96	. 2	3500	.007291	7 2.341B-4	.0014044	
36	78	42	42							.0384293	9.1508-4 .0012352
5083-2	ı		•								
7	14	7	7	DRY	147	1.1	3500	.026190	5 8.407E-4	.0058850	
14	10	4	11	DRY	110	33	3500	.986363	6 .0316623	3 .1266491	
16	24		17	DRY	244	2.5	3500	.035860	7 .0011511	.0069068	
42	46	6	6	DRY	249	2.5 .1	3500 3500			5 2.707E-4	
54	60	6	6	DRY	259	.1	3500	.001351	4 4.338E-	5 2.603E-4	
S083-2											
0	7		7	DRY	90	.1	3500 3500 3500 3500			8.738E-4	
14	20	6	6	DRY	181	.1 2.3 74.3	3500			7 .0085659	
26	32		6	DRY	224	74.3	3500			.2235966	
32	38	6	12	DRY	15 8	3.1	3500	.068670	9 .002204	3 .0132260	
26	38	12	12							.2368226	.0197352 .0266425
SO83-2	5										
0	10	10	10	DRY	59	BL. SAND	3500	0	0	0	
10	16	8	18	DR Y	127	4	15.00			.0028309	
18	24		24	DRY	118	11.8	3500			0674100	
24	30	6	30 36	DRY	163	1.1	3500			.0045491	
30	36	6	36	DRY	155	11.8 1.1 1.1	3500			.0047839	
0	36	36	36							0305330	.0022104 .0029840

APPENDIX A
DRILL SAMPLE SLUICING AND PANNING RESULTS : OTTER CREEK DRILLING PROJECT

Prom Pee't	TO FEBT	INTERVAL PEET		MOISTURE RELATIVE				GOLD WT.		Feet * Grade		ADJUSTED
SO83-25	A			***********								
0	10	10	10	DRY	75	. 1	3500	.004666	7 1.4988-4	.0014980		
10	18	•	18	DRY	89	. 3	3500	.011797	8 3.787E-4	.0030297		
10	24	6	24	DRY	130	22.7	3500	.575724	5 .0184808	.1108846		
24	30	6	30	DRY	142	10.2	3500		5 .0080702			
30	38	8	38	DRY	336	9	3500	.093750	0 .0030094	.0240750		
0	30	38	37						·	.1879085	.004945	0 .0066757
SO 8 3 ~ 2 5	В											
0	14	14	14	DRY	77	2.4	3500	.109090	.0035018	.0490255		
14	22	6	20	DRY	78	3.1	3500		6 .0044652			
22	26	6	26	DRY	123	6.3	3500		3 .0057545			
28	34	6	34	DRY	157	1.3	3500	.028980	9 9.303E-4	.0055817		
34	40	6	40	DRY	142	10.7	3500	. 26 37 32	0084658	.0507949		
0	40	40	40							.1667203	.004168	0 .0056268
SO 8 3 - 25	c											*
0	18	18	18	DRY	61	.5	3500	. 028688	5 9.209E-4	0165762		
10	24	6	24	DRY	172	8.5	3500		.0055522	-		
24	30	6	30	DRY	126	1.7	3500		2 .0015158			
30	36	6	36	WET	126	1.4	3500		0012483			
36	42	6	42	WET	252	55.2	3500		7 .0246100			
42	48	6	48	DAMP	230	105.5	3500		.0515345			
48	54	6	54	DAMP	165	42.4	3500		.0288705	-		
54	60	6	60	DRY	241	46.5	3500		2 .0216775			
60	66	6	66	WET	420	. 5	3500		7 1.3378-4			
66	72	6	72	WET	124	. 1	3500	.002822	9.060E-5	5.436E-4		
72	78	6	78 .	WET	115	. 7	3500		3 6.839B-4			
78	84	6	84	WET	141	4.1	3500	.101773	0 .0032669	.0196015		
36	60	24	24							.7601549	.031673	L .0427587
SO83-27	,			•								
0	14	14	14	DRY	72	. 2	35.00	000777	1 2 1210 4	0043603		
14	22	6	20	DRY	104	. 2	3500 3500		2 3.121B-4			
22	28	6	28	DRY	149	. 3 3. 3	3500 3500		2 3.241E-4			
28	34	6	34	DRY	188	1.5	3500 3500		3 .0024883 5 8 .964e-4			
0	34	34	34							.0266219		

APPENDIX A

DRILL SAMPLE SLUICING AND PANNING RESULTS : OTTER CREEK DRILLING PROJECT

Prom Peet	TO FEET	INTERVAL Pest		MOISTURE RELATIVE				GOLD WT.		PEET GRADE	INTRVL FACTOR GRADE ADJUSTED OZ/C.Y.GRADE OZ/C.Y.
5083-27	'A										;
0	16	18	18	DRY	294	. 9	3500	.0107143	3.439B-4	.0061907	
18	24	6	24	DRY	99	2.5	3500	.0883838	.0028371	.0170227	
24	30	6	30	DRY	125	1.7	3500	.0476	.0015280	.0091678	
30	36	6	36	DRY	175	1.2	3500	.024		.0046224	
36	42	6	42	DRY	135	129.3	3500	3.352222	1076063	.6456380	
42	48	6	48	DRY	60	5	3500			.0561750	
48	54	6	54	DRY	161	15.4	350 0	.3347826	.0107465	.0644791	
54	58	4	56	DRY	209	22.6	3500	. 3784689	.0121489	.0485954	
58	64	6	64	DRY	309	. 6	3500			.0013089	
64	70	6	70	DRY	196	. 7	3500	.0125000) 4.012E-4	.0024075	
70	73	3	73	DRY	199	. 6	3500	.0105526	3 3.387E-4	.0010162	
36	58	22	22							.8148875	.0370403 .0500045
50 83-4 1	l a										
0	10	10	10	DRY	70	. 5	3500	.025	.0008025	.008025	
10	20	10	20	DRY	56	. 3	3500	.01875		.0060188	
20	26	6	26	WET	141	SAND	3500				
26	32	6	32	WET	234	BL. SAND	3500				
32	38	6	38	DAMP	212	.3	3500	.0049528	1.590E-4	9.539B-4	
38	44	6	44	DAMP	217	BL. SAND					
44	50	6	50	DAMP	232	BL. SAND					
50	56	6	5 6	DAMP	218	.1	3500	.0016055	5 5.1548-5	3.092B-4	
56	60	4	60	DAMP		1.3	3500				
5083-42	2										
0	10	10	10	DRY	53	12.5	3500	.8254717	7 .0264976	. 2649764	
10	16	6	16 ,	DRY	34	3	3500			.0594794	
16	22	6	22	DRY	66	.1	3500			.0010214	
22	26	6	28	DRY	94	5.5	3500	.2047872	2 .0065737	.0394420	
28	34	6	34	DRY	123	13	3500	. 3699187	7 .0118744	.0712463	
34	40	6	40	DRY	241	62.5	3500	.9076763	3 .0291364	1748185	
40	46	6	46	DRY	296	371. 9	3500	4.397466	.1411587	7 .8469520	
46	52	6	52	DRY	121	38.6	3500			.2150435	
52	58	6	5.8	DRY	276	8.1	3500	.102717	.0032972	2 .0197834	
58	66		66	DRY	210	104.5	3500			.4308468	
66	72	6	72	DRY	230	53.4	3500	.8126087	7 .0260847	1.1565084	.a. =
72	78	6	78	DRY	160	2	3500	.04375	.0014044	.0084263	
78	86	6	86	DRY		BL. SAND					
86	92	6	92	DRY		BL. SAND					
92	98	6	98	DR Y		. 1	3500				
98	102	4	102	DRY	204	39.6	3500	.6794118	.0218091	.0872365	
34	72	36	36							1.843953	.0512209 .0691482

APPENDIX A

DRILL SAMPLE SLUICING AND PANNING RESULTS 1 OTTER CREEK DRILLING PROJECT

PROM Peet	TO PEET	INTERVAL Peet		MOISTURE RELATIVE				GOLD WT.		PEET*GRADE		ADJUSTED
SO83-43												
0	10	10	10	DRY	76	. 3	3500	.0138158	4.4358-4	.0044349		
10	16	6	16	DRY	74	. 1	3500		1.5188-4			
16	22	6	22	DRY	79	. 1	3500	-		8.533E-4		
22	34	12	34	DRY	488	1.1	3500			.0030390		
34	52	18	54	DRY	745	BL. SAND						
52	62	10	62	DRY	509	.5	3500	.003438	l 1.104B-4	.0011036		
3083-44	•											
0	10	10	10	DRY	37	2.3	3500	2175674	0049838	.0698392		
10	16	6	16	DRY	45	. 4	3500 3500			.0059920		
16	22	6	22	DRY	120	12.5	3500			.0702187		
22	-	6										
28	28 34	Č	28	DAMP	158	85.4	3500			.3643553		
		•	34	DAMP	178	13.1	3500			.0496107		
34	40	6	40	DAMP	130	61.6	3500			.3194197		
40	46	6	46	DAMP	127	3.8	3500			.0201699		
46	52	6	52	DAMP	153	4.5	3500			.0198265		
52	56	5	56	DAMP	141	23.1	3500	.573404	0184063	.0920314		
0	56	56	56	•						1.011463	.018061	8 .0243835
22	40	10	16						· · ·	.8036045	.044644	7 .0602703
5083-45												
0	10	10	10	DRY	49	.5	3500	.035714	3 .0011464	.0114643		
10	16	6	16	DRY	23	4.6	3500			.1348200		
16	22	6	22	DRY	48	.1	3500			.0014044		
22	28	6	28	DRY	55	1.1	3500			.0134820		
28	34	6	34	DAMP	116	3	3500			.0174336		
34	40	6	40	DAMP	127	. 1	3500			5.308E-4		
40	46	6	46	DAMP	78	7.2	3500			.0622246		
46	52	6	52	DAMP	148	2.7	3500			.0122978		
52	58	6	58	DRY	177	6.7	3500			.0255168		
58	64	6	64	DRY	352	1.6	3500			.0030641		
64	70	6	70	DRY	201	. i	3500 3500			-		
70	76	Ğ	76	DRY	164	.1	3500			2.399E-4		
76	83	i	83	DRY	360	100.6	3500			4.110E-4 .2197691		
40	58	18	18							.1000392	.005557	7 .0075029

APPENDIX A

DRILL SAMPLE SLUICING AND PANNING RESULTS: OTTER CREEK DRILLING PROJECT

PROM FEET	to FBET	interval Feet	CUMUL'TB INTERVAL	MOISTURE RELATIVE	SAMPLE WEIGHT LBS	MILLIGMS	GRAVEL LBS/C.Y.	GOLD WT. GRAMS	GOLD WT. OZ./C.Y.		GRADE OZ/C.Y	ADJUSTED
5083-46												
0	10	10	10	DRY	74	5	3500			.0759122		
10	16	6	16	DRY	63	2.4	350 0			.0256800		
16	22	6	22	DRY	128	BL. SAND	3500					
22	28		28	DRY	62	9.8	350 0			.1065513		
28	34		34	DR Y	119	1.3	3500			.0073641		
34	40		40	DRY	157	6.8	3500			.0291967		
40	46	6	46	DRY	160	6.7 9.1	3500			.0282279		
46	52	6	52	DRY	159	· • -	3500			.0385806		
52	58		58	DR Y	323	. 3	3500			6.261E-4		
58	64	6	64	DRY	65	.6	3500			.0062225		
64 70	70 76		70 76	DRY	306	.1	3500 3500			5 2.203E-4 1 .0010700		
76	76 82	6	82	DRY DRY	315 158	.5 .1	3500 3500			4.266E-4		
82	88	6	88	DRY	158	BL. SAND						
88	93	5	93	DRY	181	.1	3500			3.104E-4		
5083-47												
0	10	10	10	DRY	99	. 8	3500			.0090788		
10	16	6	16	DRY	56	. 6	3500			.0072225		
16	22	6	22	DRY	141	. 1	350 0			4.781E-4		
22	28	6	28	DRY	119	. 2	3500			.0011329		
28	34		34	DRY	224	60	3500			.1805625		
34	40	6	40	DRY	130	9.6	3500			.0497797		
40	46 52	6 6	46	DRY	88	:1	350 0			7.660E-4		
46 52	52 58	6	52 58	DRY DRY	135 249	1	3500			.0049933		
58	62	4	62	DRY	156	.08 7.8	3500 3500			0023824 00224700		
SO 83-4 1	. 7											
0	10	10	10	DRY	112	1.3	3500	040625	0013041	.0130406		
10	16	6	16	DRY	26	.1	3500			.0025927		
16	22	6	22	DRY	83	. i	3500			8.122E-4		
22	28	6	28	DRY	211	. 2	3500			6.390E-4		
28	33	5	33	DRY	180	4.6	3500			0143558		
5083 F	: n											,
5083-5!						•						
60 78	66	6	66	DRY	134	. 1	3500			5.031E-4		Dir
84	84 90	6	84	DRY	189	BL. SAND						Vivi
90	90 96	6 6	90	DRY	299	.6	3500			.0013527		\mathcal{J}^{*}
			96	DRY	255	11.66	3500			3 .0308236		
96	102	6	102	DRY	189	1.65	3500			.0058850		

APPENDIX A
DRILL SAMPLE SLUICING AND PANNING RESULTS : OTTER CREEK DRILLING PROJECT

Prom Peet	to Peet	interval Peet		MOISTURE RELATIVE		MILLIGMS		GOLD WT.		PEET * GRADE		ADJUSTED
SOB 3-56												. ,
90 96	96 100	6 4	6 10	DRY DRY	238 232	.1	3500 3500			2.832E-4 1.937E-4		e in
083-3G												
100	106	6	6	PROZEN	260	. 4	3500	.0053846	1.728E-4	.0010371		
106	112	6	12	PROZEN	281	1.9	3500			.0045580		
112	118	6	18	FROZEN	232	15	3500			.0435841		
118	124	6	24	FROZEN	248	11.3	3500	.1594756	.0051192	.0307150		
124	130	6	30	PROZ EN	282	2.9	3500			.0069322		
130	136		36	Proz en	197	. 2	3500			6.844E-4		
136	142	6	42	FROZEN	264	32	3500			.0817091		
142	148	6	48	P ROZEN	269	3.5	3500			.0087708		
148	152	4 .	52	PROZ EN	167	13.3	3500			.0357905		
152	156.5	4.5	56.5	FROZEN	121	. 2	3500	.0057851	1 1.857E-4	8.357E-4		
100	156.5	56.5	56.5							.2146168	.003798	5 .0051280
S083-15A	.			•								
92	96	4	4	Froz en	111	BL. SANDS	3500					
96	102	6	10	FROZEN	176	21.9	3500	.4355114	.0139799	.0838795		
102	108	6	16	PROZEN	100	10.6	3500			.0714546		
108	114	6	22	F ROZ EN	130	8	3500	.2153846	.0069138	.0414831		
114	120	6	28	FROZEN		8.1	3500	.1073864	.0034471	.0206826		
120	126	6	34	Proz en	190	65.4	3500			. 2320321		
126	130	4	38	PROZEN	167	7.5	3500	.1571856	.0050457	.0201826		
96	130	34	34							.4697147	.013815	1 .0186504
5083-57A	.											
104	110	6	6	PROZ EN	200	45.7	3500	. 79975	.0256720	.1540319		
110	113	3	9	PROZEN	124	BL.SANDS						
104	110	6	6								.025672	.0346572
SO83-16B		_	_									
96	100		10	DRY	150	BL. SAND	3500					
100	103	3	SAMPLE L	OST								

APPENDIX A
DRILL SAMPLE SLUICING AND PANNING RESULTS : OTTER CREEK DRILLING PROJECT

Prom Peet	to Peet	interval Peet	CUMUL'TE INTERVAL	MOISTURE RELATIVE				GOLD WT.		PEET * GRADE		ADJUSTED
SO83-58	· }											
96	102	6	6	Proz en	173	51.7	3500	1.04595	.0335751	.2014507		
102	108	6	12	PROZ EN	185	1.5	3500	.028378	9.109E-4	.0054657		•
108	114	6	18	FROZEN	212	11.7	3500	.193160	.0062004	.0372027		
114	120	6	24	PROZ EN	226	39.6	3500	,613274	3 .0196861	.1181166		
120	126	6	30	FROZEN	185	.1	3500	.0018919	9 6.073E-	3.644E-4		
126	132	6	32	FROZ EN	145	.1	3500	.0024130	8 7.748B-	4.649E-4		
132	138	6	38	F ROZ EN	135	BL. SANDS	3 3500					
138	144	6	44	P ROZ EN	90	. 1	3500	.0038889	1.248E-4	7.490E-4		
144	150	6	50	FROZEN	139	. 26	3500	.0065468	3 2.102E-	.0012609		
150	156	6	56	P ROZ EN	250	88.27	3500	1.23578	.0396689	.2380112		
96	120	24	24							.3622357	.015093	2 .0203758
150	156	6	6								.039668	5 .0535525
SO83-59												
10	16	6	6	PROZ EN	63	0 1	3500	EAFEE	. 016330			
16	22	6	12	PROZEN	188	9.1	3500 3500			.0973700		
22	28	6	18	PROZEN	204	2.9	3500 3500			.0103984		
20	34	<u>.</u>	24	FROZEN	190	31.5				.1040890		
34	40	6	30		139	. 2	3500			7.096E-4		
40	46	6	36	FROZEN Frozen	172	.4	3500			.0019399		
46	52	6	42	FROZ EN		. 3	3500			.0011754		
52	58	6	48	FROZEN	249 225	.3 .6	3500			8.122E-4		
58	64	6	54		NOT	SLUICED	3500	.009333	2.330E-	.0017976		
64	70	6	60		NOT	SLUICED	MUCH	CLAY	AC ADOUR	CAMPI B		
70	76	6	66	FROZEN	213	.7	3500		AS ABOVE	SAMPLE .0022154		
76	82	6	72	PROZEN	211	. 15	3500			.0022134		
82	88	Š	78	PROZEN	217	.1	3500			3.106E-4		
68	94	š	84	PROZEN	193	. 2	3500 3500					
94	10 0	6	90	FROZEN	378	BL. SANDS		.003626	, 1.104E-4	6.985E-4		
100	102	ž	92	FROZEN	219	.1	3500			1.026E-4		

APPENDIX "B"

SEBREW HOLDINGS LTD.

SUMMARY OF COSTS RE "DAN" CLAIMS

ACQUISITION COSTS:	\$	\$	\$
1981 - Payments to Milmac Connelly 1983 - Payments to R.J. Watson to Shirley Connelly to Cypress Consulting		225,000.00 164,000.00 200,000.00 343,243.45	026 242 45
" for staking costs		4,000.00	936,243.45
DEVELOPMENT AND EXPLORATION	COSTS: 1983)		
Development	29,400.75		
Drilling Enginæring	167,482.14 72,694.70		
Equipment Rentals	121,460.06		
Equipment repairs Field and Camp Costs	968.52 30,781.29		
Freight	236.98		
Mapping and Survey	23,181.33	500 706 74	
Wages	76,500.94	522,706.71	
45444454545445			
	0STS: 983)		
Accounting	2,500.00		
Insurance	640.00		
Interest Legal	99,354.64 25,534.24		
Taxes	1,224.05		
Telephone	1,406.02	130,658.95	
		653,365.66	
<u>DEDUCT</u> - Portion applicable to other	(41,234.40)	612,131.26	
TOTAL COST ACQUIRED BY GENIE	RESOURCES L	TD. <u>\$1</u>	,548.374.71