

**ESPERANZA EXPLORATIONS LTD.**

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TILlicUM MOUNTAIN PROPERTY1989 SUMMARY OF GOLD RESERVESTABLE I

(NO CUTOFF)

<u>DEPOSIT</u>	<u>RESERVE CATEGORY</u>	<u>TONS</u>	<u>GRADE</u>	<u>OUNCES GOLD</u>
HEINO-MONEY	PROVEN/PROBABLE	55,000	1.05	57,800
EAST RIDGE	DRILL INDICATED	422,220	0.28	116,300
EAST RIDGE NORTH EXTENSION	DRILL INDICATED	328,000	0.19	60,700
EAST RIDGE NORTH EXTENSION	DRILL INFERRED	1,029,000	0.18	188,500
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TOTAL PROVEN AND DRILL INDICATED		805,220	0.29	234,800
TOTAL DRILL INFERRED		1,029,000	0.18	188,500
GRAND TOTAL		1,834,220	0.23	423,300

TILlicum MOUNTAIN PROPERTY

1989 SUMMARY OF GOLD RESERVES

TABLE 2

(0.12 OZ/TON CUTOFF)

<u>DEPOSIT</u>	<u>RESERVE CATEGORY</u>	<u>TONS</u>	<u>GRADE</u>	<u>OUNCES GOLD</u>
HEINO-MONEY	PROVEN-PROBABLE	55,000	1.05	57,800
EAST RIDGE	DRILL INDICATED	350,000	0.31	108,400
EAST RIDGE NORTH EXTENSION	DRILL INDICATED	228,500	0.22	50,400
EAST RIDGE NORTH EXTENSION	DRILL INFERRED	810,000	0.21	169,500
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TOTAL PROVEN AND DRILL INDICATED		633,500	0.34	216,600
TOTAL DRILL INFERRED		810,000	0.21	169,500
GRAND TOTAL		1,443,500	0.27	386,100

TILlicUM MOUNTAIN PROPERTY

1989 SUMMARY OF GOLD RESERVES

TABLE 3  
(0.15 OZ/TON CUTOFF)

<u>DEPOSIT</u>	<u>RESERVE CATEGORY</u>	<u>TONS</u>	<u>GRADE</u>	<u>OUNCES GOLD</u>
HEINO-MONEY	PROVEN-PROBABLE	55,000	1.05	57,800
EAST RIDGE	DRILL INDICATED	299,100	0.34	102,600
EAST RIDGE NORTH EXTENSION	DRILL INDICATED	163,800	0.26	42,000
EAST RIDGE NORTH EXTENSION	DRILL INFERRED	709,300	0.22	156,400
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TOTAL PROVEN AND DRILL INDICATED		517,900	0.39	202,400
TOTAL DRILL INFERRED		709,300	0.22	156,400
GRAND TOTAL		1,227,200	0.29	358,800

**ESPERANZA EXPLORATIONS LTD.**

**TILLICUM MOUNTAIN PROPERTY**

**EAST RIDGE ZONE**

**1989**

**DRILL INDICATED RESERVE SUMMARY**

ESPERANZA EXPLORATIONS LTD.  
 TILlicum MOUNTAIN PROPERTY  
 EAST RIDGE DEPOSIT  
 1988 DRILL INDICATED RESERVE SUMMARY  
 JANUARY 16, 1989

SECTION	ZONE											
	A-1			A			B			C		
	TONS	GRADE (OZ/TON)	OZS.	TONS	GRADE (OZ/TON)	OZS.	TONS	GRADE (OZ/TON)	OZS.	TONS	GRADE (OZ/TON)	OZS.
D-D	7,700.00	0.33	1,212	18,430.00	0.18	3,233	2,000.00	0.25	500			
E-E				84,140.00	0.15	12,689	38,670.00	0.89	18,194			
F-F				4,000.00	0.13	520	5,500.00	0.14	770	5,330.00	0.28	1,492
G-G				23,750.00	0.11	2,691	6,250.00	1.41	3,803			
H-H	3,540.00	2.02	7,151	20,740.00	0.21	4,447				7,510.00	0.27	1,019
I-I				18,080.00	0.27	4,833						
J-J	2,920.00	0.13	380	34,140.00	0.51	17,291	15,550.00	0.34	1,695	13,500.00	0.34	2,330
K-K	2,130.00	0.27	575	14,050.00	0.21	3,013	2,830.00	1.80	5,094	1,420.00	0.26	369
L-L				26,570.00	0.12	3,295	21,980.00	0.88	5,797	13,490.00	0.94	7,216
K-K				28,000.00	0.36	6,720						
TOTAL	16,290.00	0.57	9,318	271,900.00	0.22	58,731	92,780.00	0.39	35,853	41,250.00	0.30	12,426

GRAND TOTAL: 422,220.00 TONS AVERAGE THICKNESS 5.5 FEET  
 0.28 GRADE  
 116,327.20 OZ. GOLD

RESERVES													
Section	Drill Hole	Interval (Feet)	Thickness (Feet)	Gold (Ozs/Ton)	Horizon	Thickness	Length	Width	Tons (F=12)	Grade (Oz/Ton)	Contained Gold Dz.	Block	
D-D	83-51	46.50 - 60.90	14.40	0.14	A								
		46.50 - 58.50	12.00	0.16	A								
		56.00 - 60.90	4.90	0.30	A								
	83-53		3.00	0.07	A	3.95	130.00	70.00	3,000	0.21	630	D-1	
	88-154	173.00 - 178.00	5.00	0.15	A	5.00	130.00	120.00	6,500	0.15	975	D-2	
		174.00 - 178.00	4.00	0.18	A								
		192.50 - 197.00	4.50	0.12	A-1	4.50	100.00	120.00	4,500	0.12	540	D-3	
	88-155	139.50 - 143.50	4.00	0.25	B	4.00	50.00	120.00	2,000	0.25	500	D-4	
		208.00 - 213.50	5.50	0.15	A	5.50	75.00	120.00	4,130	0.15	620	D-5	
	88-156	255.00 - 263.50	8.50	0.14	A								
		257.00 - 263.50	6.50	0.16	A								
		260.50 - 264.50	4.00	0.21	A	4.00	180.00	80.00	4,800	0.21	1,008	D-6	
		277.50 - 281.50	4.00	0.21	A-1	4.00	80.00	120.00	3,200	0.21	672	D-7	
	E-E	83-55	17.50 - 22.30	4.80	0.09	A							
83-65		71.00 - 79.50	8.50	0.10	A	8.50	260.00	70.00	12,890	0.10	1,289	E-1	
		71.00 - 75.00	4.00	0.12	A								
88-175		30.00 - 34.00	4.00	0.16	E								
		443.00 - 450.00	7.00	0.10	D								
		446.00 - 450.00	4.00	0.14	D								
		666.00 - 685.00	19.00	0.16	A	19.00	300.00	150.00	71,250	0.16	11,400	E-2	
670.50 - 685.00		14.50	0.17	A									
678.50 - 685.00		6.50	0.23	A									
88-178		530.00 - 535.00	5.00	0.04	D								
		642.50 - 648.50	6.00	0.63	B	6.00	220.00	200.00	22,000	0.63	13,860	E-3	
88-177		774.00 - 778.00	4.00	0.26	B	4.00	250.00	200.00	16,670	0.26	4,334	E-4	
	772.00 - 778.00	6.00	0.18	B									
F-F	83-83	103.20 - 107.20	4.00	0.07	A								
	88-151	397.00 - 401.00	4.00	0.13	A	4.00	120.00	100.00	4,000	0.13	520	F-1	
	88-152	49.50 - 53.50	4.00	0.12									
		130.00 - 135.00	5.00	0.13									
		361.00 - 371.00	10.00	0.10									
	365.00 - 371.00	6.00	0.14	B	6.00	110.00	100.00	5,500	0.14	770	F-2		
88-153	263.50 - 271.50	8.00	0.28	C	8.00	80.00	100.00	5,330	0.28	1,492	F-3		

RESERVES													
Section	Drill Hole	Interval (Feet)	Thickness (Feet)	Gold (Ozs/Ton)	Horizon	Thickness	Length	Width	Tons	Grade (Oz/Ton)	Contained Gold Oz.	Block	
AVERAGE 83-61 AND													
G-6	2118	-	4.50	1.05	B	4.50	80.00	75.00	2,250	1.05	2,363	6-1	
	Adit	-	5.60	0.16	A	5.60	100.00	75.00	3,500	0.16	560	6-2	
	83-67	109.00 - 112.00	3.00	0.11	B								
		137.00 - 141.00	4.00	0.13	A	4.00	70.00	75.00	1,750	0.13	228	6-3	
	83-69	89.00 - 93.00	4.00	0.06	B								
		164.00 - 172.00	8.00	0.06	A	8.00	120.00	75.00	6,000	0.06	360	6-4	
	88-144	337.00 - 341.00	4.00	0.10	B								
		355.00 - 362.50	7.50	0.12	A	7.50	140.00	75.00	6,560	0.12	787	6-5	
358.00 - 362.50		4.50	0.14										
88-145	282.50 - 288.00	5.50	0.08	C									
	326.50 - 332.00	5.50	0.07	B									
	368.00 - 373.00	5.00	0.14	A	5.00	110.00	75.00	3,440	0.14	482	6-6		
88-146	277.50 - 291.50	14.00	0.23	C									
	277.50 - 285.50	8.00	0.36	B	8.00	80.00	75.00	4,000	0.36	1,440	6-7		
	384.00 - 388.00	4.00	0.11	A	4.00	100.00	75.00	2,500	0.11	275	6-8		
H-H	82-19	57.00 - 64.00	7.00	0.12	A	7.00	70.00	85.00	3,470	0.12	416	H-1	
	88-168	115.00 - 120.50	5.50	0.27	A	5.50	120.00	85.00	4,680	0.27	1,264	H-2	
		208.00 - 213.00	5.00	2.02	A-1	5.00	100.00	85.00	3,540	2.02	7,151	H-3	
	88-142	283.80 - 296.00	12.20	0.17	A								
		283.80 - 289.00	5.20	0.34	A	5.20	155.00	85.00	5,710	0.34	1,941	H-4	
	88-143	157.00 - 163.50	6.50	0.10	C	6.50	80.00	85.00	3,680	0.10	368	H-5	
	88-165	36.00 - 42.00	6.00	0.23									
		181.00 - 187.00	6.00	0.11									
		305.00 - 311.00	6.00	0.17	C	6.00	90.00	85.00	3,830	0.17	651	H-6	
	88-173	85.00 - 91.50	6.50	0.46									
		419.00 - 424.50	5.50	0.07	B								
	88-174	228.00 - 232.00	4.00	0.10									
		438.00 - 443.50	5.50	0.12	A	5.50	100.00	150.00	6,880	0.12	826	H-7	

						RESERVES						
Section	Drill Hole	Interval (Feet)	Thickness (Feet)	Gold (Ozs/Ton)	Horizon	Thickness	Length	Width	Tons	Grade (Oz/Ton)	Contained Gold Oz.	Block
I-I	83-71	152.00 - 156.00	4.00	1.00	A	4.00	100.00	85.00	2,830	1.00	2,830	I-1
		129.00 - 133.00	4.00	0.11	A							
	88-166	158.00 - 164.00	6.00	0.11	A	6.00	90.00	85.00	3,830	0.11	421	I-2
		160.00 - 164.00	4.00	0.13	A							
		194.00 - 198.00	4.00	0.09	A-1							
	84-86	215.00 - 218.00	3.00	0.09								
		227.00 - 233.00	6.00	0.19	A	6.00	80.00	85.00	3,400	0.19	646	I-3
		266.00 - 269.00	3.00	0.11	A-1							
	88-140	292.50 - 300.00	7.50	0.12	A	7.50	100.00	85.00	5,310	0.12	637	I-4
	88-141	66.00 - 74.00	8.00	0.16								
69.00 - 74.00		5.00	0.25									
300.00 - 305.00		5.00	0.11	A	5.00	100.00	65.00	2,710	0.11	298	I-5	
J-J	83-73	137.20 - 143.00	5.80	0.18	A	5.80	75.00	85.00	3,080	0.18	554	J-1
		137.20 - 141.50	4.30	0.19	A							
	88-167	156.00 - 160.00	4.00	0.10	B	4.00	75.00	85.00	2,130	0.10	213	J-2
		171.00 - 176.50	5.50	0.07	A	5.50	80.00	85.00	3,120	0.07	218	J-12
		198.50 - 204.00	5.50	0.13	A-1	5.50	75.00	85.00	2,920	0.13	380	J-3
	88-134	202.00 - 216.50	14.50	0.66	A							
		204.00 - 213.50	9.50	0.96	A	9.50	100.00	85.00	6,730	0.96	6,461	J-4
	88-135	58.50 - 62.50	4.00	0.18								
		201.00 - 213.00	12.00	0.13	A							
		209.00 - 213.00	4.00	0.26	A	4.00	100.00	85.00	2,830	0.26	736	J-5
	88-139	299.00 - 315.50	16.50	0.14	A							
		299.00 - 314.00	15.00	0.16	A							
		310.50 - 315.50	5.00	0.35	A	5.00	120.00	105.00	5,230	0.35	1,838	J-6
	88-147	306.00 - 310.00	4.00	0.14	B	4.00	100.00	105.00	3,500	0.14	490	J-7
		410.00 - 420.00	10.00	0.03	A							
	88-148	64.00 - 70.00	6.00	0.10								
		403.50 - 413.00	9.50	0.45	A							
		406.00 - 413.00	7.00	0.57	A	7.00	150.00	150.00	13,130	0.57	7,484	J-8
		409.00 - 413.00	4.00	0.39	A							
		25.00 - 29.00	4.00	0.14								
88-157	293.00 - 299.00	6.00	0.08	B								
	337.00 - 401.00	4.00	0.16	C	4.00	150.00	100.00	5,000	0.16	800	J-9	
88-158	486.50 - 492.00	5.50	0.09	B								
88-159	479.00 - 485.00	6.00	0.18	C	6.00	170.00	100.00	8,500	0.18	1,530	J-10	
	520.00 - 527.00	7.00	0.10	B	7.00	170.00	100.00	9,920	0.10	992	J-11	



RESERVES												
Section	Drill Hole	Interval (Feet)	Thickness (Feet)	Gold (Ozs/Ton)	Horizon	Thickness	Length	Width	Tons	Grade (Oz/Ton)	Contained Gold Oz.	Block
K-K	83-75	115.00 - 118.00	3.00	0.27	A-1	3.00	100.00	85.00	2,130	0.27	575	K-7
			5.00	0.10	A	5.00	100.00	85.00	3,540	0.10	354	K-1
	88-136	198.00 - 211.50	13.50	0.11	A							
			6.00	0.22	A							
			4.00	0.29	A	4.00	110.00	85.00	3,120	0.29	905	K-2
	88-137	136.00 - 140.00	4.00	1.80	B	4.00	100.00	85.00	2,830	1.80	5,094	K-3
			4.50	0.44	A	4.50	85.00	85.00	2,710	0.44	1,132	K-4
	88-149	255.00 - 259.00	4.00	0.12								
			6.00	0.12	A	6.00	110.00	85.00	4,680	0.12	562	K-5
	88-150	84.00 - 89.00	5.00	0.26	C	5.00	40.00	85.00	1,420	0.26	369	K-6
88-141	299.00 - 303.00	4.00	0.06	A								
L-L	82-18	120.00 - 126.00	6.00	0.16	A	6.00	100.00	125.00	6,250	0.16	1,000	L-1
			6.00	0.10	A	6.00	80.00	125.00	5,000	0.10	500	L-2
	88-138	116.50 - 122.50	4.00	0.10	A							
			4.00	0.10	A							
	84-87	122.50 - 128.50	6.00	0.29	B	6.00	120.00	125.00	7,500	0.29	2,175	L-3
			4.00	0.44								
	88-164	148.00 - 153.50	5.50	0.31	C	5.50	70.00	125.00	4,010	0.31	1,243	L-4
			9.00	0.23	B							
			4.00	0.44	B	4.00	120.00	125.00	5,000	0.44	2,200	L-5
			6.50	0.09	A							
	88-163	272.00 - 275.00	3.00	0.12	B							
			3.50	0.11	A	3.50	120.00	125.00	4,380	0.11	482	L-6
	88-162	155.00 - 162.00	7.00	0.63	C	7.00	130.00	125.00	9,480	0.63	5,972	L-7
			5.00	0.84	C							
			4.00	1.06	C							
9.50			0.12	B								
7.00			0.15	B	7.00	130.00	125.00	9,480	0.15	1,422	L-8	
4.00			0.16	B								
7.50			0.12	A	7.50	140.00	125.00	10,940	0.12	1,313	L-9	
88-161	473.00 - 477.00	4.00	0.10	A								
N-N	84-88	32.00 - 35.00	3.00	0.21	A	3.00	150.00	140.00	5,250	0.21	1,103	N-1
	88-169	304.00 - 313.00	9.00	0.25	A	9.00	150.00	140.00	15,750	0.25	3,938	N-2
			5.00	0.33								
88-170	266.00 - 270.00	4.00	0.24	A	4.00	150.00	140.00	7,000	0.24	1,680	N-3	

ESPERANZA EXPLORATIONS LTD.  
TILLCUM MOUNTAIN PROPERTY  
NORTH EXTENSION  
JANUARY 16, 1989

RESERVES											
Section	Drill Hole	Interval (Feet)	Thickness (Feet)	Gold (Ozs/Ton)	Thickness	Length	Width	Block	Tons (F=12)	Grade (Oz/Ton)	Contained Gold Oz.
1084N	88-205	610.00 - 615.00	5.00	0.06							
	88-206	717.00 - 724.00	7.00	0.10	7.00	130.00	200.00	1084 A	15,170	0.10	1,517
	88-201	1,564.00 - 1,572.00	8.00	0.12	8.00	150.00	200.00	1084 B	20,000	0.12	2,400
995	88-207	459.50 - 470.00	10.50	0.30	10.50	220.00	200.00	995 A	38,500	0.30	11,550
	88-208	525.50 - 534.00	8.50	0.14	8.50	210.00	200.00	995 B	29,750	0.14	4,165
	88-200	1,308.00 - 1,322.00	14.00	0.10	14.00	190.00	200.00	995 C	44,330	0.10	4,433
896	88-210	263.50 - 273.00	9.50	0.30	9.50	170.00	200.00	896 A	26,920	0.30	8,076
	88-202	1,203.00 - 1,210.00	7.00	0.16	7.00	200.00	200.00	896 B	23,330	0.16	3,733
906 N	88-211	295.00 - 301.00	6.00	0.42	6.00	200.00	200.00	806 A	20,000	0.42	8,400
	88-203	1,092.00 - 1,102.00	10.00	0.21	10.00	200.00	200.00	806 B	33,330	0.21	6,999
	88-196	965.00 - 977.00	12.00	0.11	12.00	200.00	200.00	806 C	40,000	0.11	4,400
665	88-204	718.00 - 720.50	2.50	0.12	4.50	200.00	200.00	665 A	15,000	0.12	1,800
	88-194	815.50 - 822.00	6.50	0.15	6.50	200.00	200.00	665 B	21,670	0.15	3,251
TOTAL									328,000.00	0.19	60,724

ESPERANZA EXPLORATIONS LTD.  
TILlicum MOUNTAIN PROPERTY  
NORTH EXTENSION  
DRILL INFERRED RESERVES  
JANUARY 16, 1989

BLOCK	LENGTH	WIDTH	THICKNESS	CALCULATION OF GRADE	GRADE	TONS	OZ. GOLD
DI-1	480.00	200.00	7.50	AVERAGE OF 206 & 201 HOLES = 0.11/7.5 FEET	0.11	60,000.00	6,600.00
DI-2	180.00	200.00	5.00	HOLE 88-205	0.06	15,000.00	900.00
DI-3	200.00	200.00	8.00	EXTENSION OF 88-201 .12/8	0.12	26,670.00	3,200.00
DI-4	450.00	90.00	10.50	1/2 GRADE OF DI-7 BLOCK	0.15	35,440.00	5,320.00
DI-5	620.00	90.00	9.00	WEIGHTED AVERAGE OF 88-205, 206, 207 & 208 = .15/9	0.15	41,850.00	6,280.00
DI-6	200.00	290.00	10.00	AVERAGE OF 88-200, 201 & 206 = .10/10.0	0.10	48,330.00	4,830.00
DI-7	450.00	200.00	10.50	EXTENSION OF HOLE 88-207 = .30/10.5	0.30	78,750.00	23,630.00
DI-8	500.00	130.00	9.00	AVERAGE OF DI-7 & DI-11 .19	0.19	48,750.00	9,260.00
DI-9	200.00	130.00	10.00	AVERAGE OF 88-210 & 207 = .30/10.0	0.30	21,670.00	6,500.00
DI-10	530.00	130.00	9.50	AVERAGE OF 88-207, 208, 200 & 202 & 0-12 = .18/9.5	0.18	54,550.00	9,820.00
DI-11	420.00	200.00	8.00	HOLE 88-209 .04/8.0	0.04	56,000.00	2,240.00
DI-12	240.00	200.00	8.50	AVERAGE OF 88-210 & 202 = .24/8.5	0.24	34,000.00	8,160.00
DI-13	200.00	200.00	7.00	EXTENSION OF 88-202	0.16	23,330.00	3,730.00
DI-14	400.00	100.00	7.00	AVERAGE OF 88-209 & 211 = .20/7.0	0.20	23,330.00	4,670.00
DI-15	260.00	160.00	9.00	AVERAGE OF DI-19 & 896 A = .3/9.0	0.30	15,000.00	4,500.00
DI-16	300.00	100.00	9.00	AVERAGE OF DI-12 & 806 B = .22/9.0	0.22	22,500.00	4,950.00
DI-17	320.00	100.00	8.00	AVERAGE OF 196 & 202 = .14/8	0.14	21,330.00	2,990.00
DI-18	250.00	200.00	6.00	EXTENSION OF 88-211	0.42	25,000.00	10,500.00
DI-19	260.00	200.00	8.00	AVERAGE OF 211 & 203 = .29/8	0.29	34,670.00	10,050.00
DI-20	200.00	200.00	12.00	EXTENSION OF 88-196	0.11	40,000.00	4,400.00
DI-21	180.00	200.00	11.00	AVERAGE OF 196 & 203 = .16/11.0	0.16	33,000.00	5,280.00
DI-22	800.00	250.00	6.00	AV. OF DI-18, 806A, DI-19, DI-25, 665A, DI-26, 665B = .25/11	0.25	100,000.00	25,000.00
DI-23	500.00	200.00	10.00	AVERAGE OF 806B, 806C, DI-20 & DI-27 = .15/10	0.15	83,330.00	12,500.00
DI-24	600.00	50.00	5.00	AVERAGE OF N-1, 2 & 3 = .24/5.0	0.24	12,500.00	3,000.00
DI-25	300.00	200.00	4.50	EXTENSION OF 88-204	0.12	22,500.00	2,700.00
DI-26	330.00	200.00	5.50	AVERAGE OF 194 & 204 = .14/5.5	0.14	30,250.00	4,240.00
DI-27	200.00	200.00	6.50	EXTENSION OF 88-194	0.15	21,670.00	3,250.00
TOTAL TONS						1,029,420.00	
TOTAL OZ. GOLD							188,500.00
WEIGHTED AVERAGE						0.18	

ESPERANZA EXPLORATIONS LTD.  
 TILlicum MOUNTAIN PROPERTY  
 EAST RIDGE DEPOSIT  
 1988 DRILL INDICATED RESERVE SUMMARY

CUTOFF AT .15 GRADE (JANUARY 17, 1989)

SECTION	ZONE											
	A-1			A			B			C		
	TONS	GRADE (OZ/TON)	OZS.	TONS	GRADE (OZ/TON)	OZS.	TONS	GRADE (OZ/TON)	OZS.	TONS	GRADE (OZ/TON)	OZS.
D-D	3,200.00	0.21	672	18,430.00	0.18	3,233	2,000.00	0.25	500			
E-E				71,250.00	0.16	11,400	38,670.00	0.47	18,194			
F-F										5,330.00	0.28	1,492
G-G				3,500.00	0.16	560	6,250.00	0.61	3,803			
H-H	3,540.00	2.02	7,151	10,390.00	0.31	3,205				3,830.00	0.17	651
I-I				6,230.00	0.56	3,476						
J-J				31,020.00	0.55	17,073				13,500.00	0.17	2,330
K-K	2,130.00	0.27	575	5,830.00	0.36	2,097	2,830.00	1.80	5,094	1,420.00	0.26	369
L-L				6,250.00	0.16	1,000	21,980.00	0.26	5,797	13,490.00	0.53	7,216
K-K				28,000.00	0.24	6,720						
TOTAL	8,870.00	0.95	8,398	180,900.00	0.27	48,763	71,730.00	0.47	33,388	37,570.00	0.32	12,058
GRAND TOTAL:		299,070.00 TONS			AVERAGE THICKNESS			5.5 FEET				
		0.34 GRADE										
		102,607.10 OZ. GOLD										

RESERVES												
Section	Drill Hole	Interval (Feet)	Thickness (Feet)	Gold (Ozs/Ton)	Horizon	Thickness	Length	Width	Tons (F=12)	Grade (Oz/Ton)	Contained Gold Oz.	Block
D-D	83-51	46.50 - 60.90	14.40	0.14	A							
		46.50 - 58.50	12.00	0.16	A							
		56.00 - 60.90	4.90	0.30	A							
	83-53		3.00	0.07	A	3.95	130.00	70.00	3,000	0.21	630	D-1
	88-154	173.00 - 178.00	5.00	0.15	A	5.00	130.00	120.00	6,500	0.15	975	D-2
		174.00 - 178.00	4.00	0.18	A							
		192.50 - 197.00	4.50	0.12	A-1	4.50	130.00	120.00	5,850	0.12	702	D-2
	88-155	139.50 - 143.50	4.00	0.25	B	4.00	50.00	120.00	2,000	0.25	500	D-4
		208.00 - 213.50	5.50	0.15	A	5.50	75.00	120.00	4,130	0.15	620	D-5
	88-156	255.00 - 263.50	8.50	0.14	A							
257.00 - 263.50		6.50	0.16	A								
260.50 - 264.50		4.00	0.21	A	4.00	180.00	80.00	4,800	0.21	1,008	D-6	
277.50 - 281.50		4.00	0.21	A-1	4.00	80.00	120.00	3,200	0.21	672	D-7	
E-E	83-55	17.50 - 22.30	4.80	0.09	A							
	83-65	71.00 - 79.50	8.50	0.10	A	8.50	260.00	70.00	12,890	0.10	1,289	E-1
		71.00 - 75.00	4.00	0.12	A							
	88-175	30.00 - 34.00	4.00	0.16	E							
		443.00 - 450.00	7.00	0.10	D							
		446.00 - 450.00	4.00	0.14	D							
		666.00 - 685.00	19.00	0.16	A	19.00	300.00	150.00	71,250	0.16	11,400	E-2
		670.50 - 685.00	14.50	0.17	A							
	678.50 - 685.00	6.50	0.23	A								
	88-1786	530.00 - 535.00	5.00	0.04	D							
642.50 - 648.50		6.00	0.63	B	6.00	220.00	200.00	22,000	0.63	13,860	E-3	
88-177	774.00 - 778.00	4.00	0.26	B	4.00	250.00	200.00	16,670	0.26	4,334	E-4	
	772.00 - 778.00	6.00	0.18	B								
F-F	83-83	103.20 - 107.20	4.00	0.07	A							
	88-151	397.00 - 401.00	4.00	0.13	A	4.00	120.00	100.00	4,000	0.13	520	F-1
	88-152	49.50 - 53.50	4.00	0.12								
		130.00 - 135.00	5.00	0.13								
		361.00 - 371.00	10.00	0.10								
	365.00 - 371.00	6.00	0.14	B	6.00	110.00	100.00	5,500	0.14	770	F-2	
88-153	263.50 - 271.50	8.00	0.28	C	8.00	80.00	100.00	5,330	0.28	1,492	F-3	

						RESERVES						
Section	Drill Hole	Interval (Feet)	Thickness (Feet)	Gold (Ozs/Ton)	Horizon	Thickness	Length	Width	Tons	Grade (Oz/Ton)	Contained Gold Oz.	Block
AVERAGE 83-61 AND												
6-6	2118	-	4.50	1.05	B	4.50	80.00	75.00	2,250	1.05	2,363	6-1
	Adit	-	5.60	0.16	A	5.60	100.00	75.00	3,500	0.16	560	6-2
	83-67	109.00 - 112.00	3.00	0.11	B							
		137.00 - 141.00	4.00	0.13	A	4.00	70.00	75.00	1,750	0.13	228	6-3
	83-69	89.00 - 93.00	4.00	0.06	B							
		164.00 - 172.00	8.00	0.06	A	8.00	120.00	75.00	6,000	0.06	360	6-4
	88-144	337.00 - 341.00	4.00	0.10	B							
		355.00 - 362.50	7.50	0.12	A	7.50	140.00	75.00	6,560	0.12	787	6-5
		358.00 - 362.50	4.50	0.14								
	88-145	282.50 - 288.00	5.50	0.08	C							
		326.50 - 332.00	5.50	0.07	B							
		358.00 - 373.00	5.00	0.14	A	5.00	110.00	75.00	3,440	0.14	482	6-6
	88-146	277.50 - 291.50	14.00	0.23	C							
		277.50 - 285.50	8.00	0.36	B	8.00	80.00	75.00	4,000	0.36	1,440	6-7
		384.00 - 388.00	4.00	0.11	A	4.00	100.00	75.00	2,500	0.11	275	6-8
H-H	82-19	57.00 - 64.00	7.00	0.12	A	7.00	70.00	85.00	3,470	0.12	416	H-1
	88-168	115.00 - 120.50	5.50	0.27	A	5.50	120.00	85.00	4,680	0.27	1,264	H-2
		208.00 - 213.00	5.00	2.02	A-1	5.00	100.00	85.00	3,540	2.02	7,151	H-3
	88-142	283.80 - 296.00	12.20	0.17	A							
		283.80 - 283.50	5.20	0.34	A	5.20	155.00	85.00	5,710	0.34	1,941	H-4
	88-143	157.00 - 163.50	6.50	0.10	C	6.50	80.00	85.00	3,680	0.10	368	H-5
	88-165	36.00 - 42.00	6.00	0.23								
		181.00 - 187.00	6.00	0.11								
		305.00 - 311.00	6.00	0.17	C	6.00	90.00	85.00	3,830	0.17	651	H-6
	88-173	85.00 - 91.50	6.50	0.46								
		419.00 - 424.50	5.50	0.07	B							
	88-174	228.00 - 232.00	4.00	0.10								
		438.00 - 443.50	5.50	0.12	A	5.50	100.00	150.00	6,880	0.12	826	H-7

RESERVES												
Section	Drill Hole	Interval (feet)	Thickness (feet)	Gold (Ozs/Ton)	Horizon	Thickness	Length	Width	Tons	Grade (Oz/Ton)	Contained Gold Oz.	Block
I-I	83-71	152.00 - 156.00	4.00	1.00	A	4.00	100.00	85.00	2,830	1.00	2,830	I-1
		129.00 - 133.00	4.00	0.11	A							
	88-166	158.00 - 164.00	6.00	0.11	A	6.00	90.00	85.00	3,830	0.11	421	I-2
		160.00 - 164.00	4.00	0.13	A							
		194.00 - 198.00	4.00	0.09	A-1							
	84-86	215.00 - 218.00	3.00	0.09								
		227.00 - 233.00	6.00	0.19	A	6.00	80.00	85.00	3,400	0.19	646	I-3
		266.00 - 269.00	3.00	0.11	A-1							
	88-140	292.50 - 300.00	7.50	0.12	A	7.50	100.00	85.00	5,310	0.12	637	I-4
	88-141	66.00 - 74.00	8.00	0.16								
69.00 - 74.00		5.00	0.25									
300.00 - 305.00		5.00	0.11	A	5.00	100.00	65.00	2,710	0.11	298	I-5	
J-J	83-73	137.20 - 143.00	5.80	0.18	A	5.80	75.00	85.00	3,080	0.18	554	J-1
		137.20 - 141.50	4.30	0.19	A							
	88-167	156.00 - 160.00	4.00	0.10	B	4.00	75.00	85.00	2,130	0.10	213	J-2
		171.00 - 176.50	5.50	0.07	A	5.50	80.00	85.00	3,120	0.07	218	J-12
		198.50 - 204.00	5.50	0.13	A-1	5.50	75.00	85.00	2,920	0.13	380	J-3
	88-134	202.00 - 216.50	14.50	0.66	A							
		204.00 - 213.50	9.50	0.96	A	9.50	100.00	85.00	6,730	0.96	6,461	J-4
	88-135	58.50 - 62.50	4.00	0.18								
		201.00 - 213.00	12.00	0.13	A							
		209.00 - 213.00	4.00	0.26	A	4.00	100.00	85.00	2,830	0.26	736	J-5
	88-139	299.00 - 315.50	16.50	0.14	A							
		299.00 - 314.00	15.00	0.16	A							
		310.50 - 315.50	5.00	0.35	A	5.00	120.00	105.00	5,250	0.35	1,838	J-6
	88-147	306.00 - 310.00	4.00	0.14	B	4.00	100.00	105.00	3,500	0.14	490	J-7
		410.00 - 420.00	10.00	0.03	A							
	88-148	64.00 - 70.00	6.00	0.10								
		403.50 - 413.00	9.50	0.45	A							
		406.00 - 413.00	7.00	0.57	A	7.00	150.00	150.00	13,130	0.57	7,484	J-8
		409.00 - 413.00	4.00	0.99	A							
		25.00 - 29.00	4.00	0.14								
293.00 - 299.00		6.00	0.08	B								
88-157	397.00 - 401.00	4.00	0.16	C	4.00	150.00	100.00	5,000	0.16	800	J-9	
	486.50 - 492.00	5.50	0.09	B								
88-158												
88-159	479.00 - 485.00	6.00	0.18	C	6.00	170.00	100.00	8,500	0.18	1,530	J-10	
	520.00 - 527.00	7.00	0.10	B	7.00	170.00	100.00	9,920	0.10	992	J-11	

RESERVES												
Section	Drill Hole	Interval (feet)	Thickness (feet)	Gold (Ozs/Ton)	Horizon	Thickness	Length	Width	Tons	Grade (Oz/Ton)	Contained Gold Oz.	Block
K-K	83-75	115.00 - 118.00	3.00	0.27	A-1	3.00	100.00	85.00	2,130	0.27	575	K-7
			5.00	0.10	A	5.00	100.00	85.00	3,540	0.10	354	K-1
	88-136	198.00 - 211.50	13.50	0.11	A							
		198.00 - 204.00	6.00	0.22	A							
		200.00 - 204.00	4.00	0.29	A	4.00	110.00	85.00	3,120	0.29	905	K-2
	88-137	136.00 - 140.00	4.00	1.80	B	4.00	100.00	85.00	2,830	1.80	5,094	K-3
		213.50 - 218.00	4.50	0.44	A	4.50	85.00	85.00	2,710	0.44	1,192	K-4
	88-149	255.00 - 259.00	4.00	0.12								
		273.00 - 279.00	6.00	0.12	A	6.00	110.00	85.00	4,580	0.12	562	K-5
	88-150	84.00 - 89.00	5.00	0.26	C	5.00	40.00	85.00	1,420	0.26	369	K-6
88-141	299.00 - 303.00	4.00	0.06	A								
L-L	82-18	120.00 - 126.00	6.00	0.16	A	6.00	100.00	125.00	6,250	0.16	1,000	L-1
	88-138	116.50 - 122.50	6.00	0.10	A	6.00	80.00	125.00	5,000	0.10	500	L-2
		116.50 - 120.50	4.00	0.10	A							
	84-87	122.50 - 128.50	6.00	0.29	B	6.00	120.00	125.00	7,500	0.29	2,175	L-3
		122.50 - 126.50	4.00	0.44								
	88-164	148.00 - 153.50	5.50	0.31	C	5.50	70.00	125.00	4,010	0.31	1,243	L-4
		256.00 - 265.00	9.00	0.23	B							
		261.00 - 265.00	4.00	0.44	B	4.00	120.00	125.00	5,000	0.44	2,200	L-5
		321.00 - 327.50	6.50	0.09	A							
	88-163	272.00 - 275.00	3.00	0.12	B							
		321.00 - 324.50	3.50	0.11	A	3.50	120.00	125.00	4,380	0.11	482	L-6
	88-162	155.00 - 162.00	7.00	0.63	C	7.00	130.00	125.00	9,480	0.63	5,972	L-7
		157.00 - 162.00	5.00	0.84	C							
		158.00 - 162.00	4.00	1.06	C							
		299.00 - 308.50	9.50	0.12	B							
299.00 - 306.00		7.00	0.15	B	7.00	130.00	125.00	9,480	0.15	1,422	L-8	
88-161	302.00 - 306.00	4.00	0.16	B								
	337.50 - 345.00	7.50	0.12	A	7.50	140.00	125.00	10,940	0.12	1,313	L-9	
	337.50 - 343.00	5.50	0.13	A								
88-161	473.00 - 477.00	4.00	0.10	A								
N-N	84-88	32.00 - 35.00	3.00	0.21	A	3.00	150.00	140.00	5,250	0.21	1,103	N-1
	88-169	105.00 - 111.00	6.00	0.11								
		304.00 - 313.00	9.00	0.25	A	9.00	150.00	140.00	15,750	0.25	3,938	N-2
	304.00 - 309.00	5.00	0.33									
88-170	266.00 - 270.00	4.00	0.24	A	4.00	150.00	140.00	7,000	0.24	1,680	N-3	



ESPERANZA EXPLORATIONS LTD.  
TILlicum MOUNTAIN PROPERTY  
NORTH EXTENSION  
JANUARY 16, 1989

CUT OFF AT .15 GRADE					RESERVES							
Section	Drill Hole	Interval (Feet)	Thickness (Feet)	Gold (Ozs/Ton)	Thickness	Length	Width	Block	Tons (F=12)	Grade (Oz/Ton)	Contained Gold Oz.	
1084N	88-205	610.00 - 615.00	5.00	0.06								
	88-206	717.00 - 724.00	7.00	0.10	7.00	130.00	200.00	1084 A	15,170	0.10	1,517	
	88-201	1,564.00 - 1,572.00	8.00	0.12	8.00	150.00	200.00	1084 B	20,000	0.12	2,400	
995	88-207	459.50 - 470.00	10.50	0.30	10.50	220.00	200.00	995 A	38,500	0.30	11,550	
	88-208	525.50 - 534.00	8.50	0.14	8.50	210.00	200.00	995 B	29,750	0.14	4,165	
	88-200	1,308.00 - 1,322.00	14.00	0.10	14.00	190.00	200.00	995 C	44,330	0.10	4,433	
896	88-210	263.50 - 273.00	9.50	0.30	9.50	170.00	200.00	896 A	26,920	0.30	8,076	
	88-202	1,203.00 - 1,210.00	7.00	0.16	7.00	200.00	200.00	896 B	23,330	0.16	3,733	
906 N	88-211	295.00 - 301.00	6.00	0.42	6.00	200.00	200.00	806 A	20,000	0.42	8,400	
	88-203	1,092.00 - 1,102.00	10.00	0.21	10.00	200.00	200.00	806 B	33,330	0.21	6,999	
	88-196	965.00 - 977.00	12.00	0.11	12.00	200.00	200.00	806 C	40,000	0.11	4,400	
665	88-204	718.00 - 720.50	2.50	0.12	4.50	200.00	200.00	665 A	15,000	0.12	1,800	
	88-194	815.50 - 822.00	6.50	0.15	6.50	200.00	200.00	665 B	21,670	0.15	3,251	
TOTAL									163,750.00	0.26	42,008.60	

ESPERANZA EXPLORATIONS LTD.  
TILlicum MOUNTAIN PROPERTY  
NORTH EXTENSION  
DRILL INFERRED RESERVES  
JANUARY 16, 1989

BLOCK	LENGTH	WIDTH	THICKNESS	CALCULATION OF GRADE	GRADE	TONS	OZ. GOLD
DI-1	480.00	200.00	7.50	AVERAGE OF 206 & 201 HOLES = 0.11/7.5 FEET	0.11	60,000.00	
DI-2	180.00	200.00	5.00	HOLE 88-205	0.06	15,000.00	
DI-3	200.00	200.00	8.00	EXTENSION OF 88-201 .12/8	0.12	26,670.00	
DI-4	450.00	90.00	10.50	1/2 GRADE OF DI-7 BLOCK	0.15	35,440.00	5,320.00
DI-5	620.00	90.00	9.00	WEIGHTED AVERAGE OF 88-205, 206, 207 & 208 = .15/9	0.15	41,850.00	6,280.00
DI-6	200.00	290.00	10.00	AVERAGE OF 88-200, 201 & 206 = .10/10.0	0.10	48,330.00	
DI-7	450.00	200.00	10.50	EXTENSION OF HOLE 88-207 = .30/10.5	0.30	78,750.00	23,630.00
DI-8	500.00	130.00	9.00	AVERAGE OF DI-7 & DI-11 .19	0.19	48,750.00	9,260.00
DI-9	200.00	130.00	10.00	AVERAGE OF 88-210 & 207 = .30/10.0	0.30	21,670.00	6,500.00
DI-10	530.00	130.00	9.50	AVERAGE OF 88-207, 208, 200 & 202 & 0-12 = .18/9.5	0.18	54,550.00	9,820.00
DI-11	420.00	200.00	8.00	HOLE 88-209 .04/8.0	0.04	56,000.00	
DI-12	240.00	200.00	8.50	AVERAGE OF 88-210 & 202 = .24/8.5	0.24	34,000.00	8,160.00
DI-13	200.00	200.00	7.00	EXTENSION OF 88-202	0.16	23,330.00	3,730.00
DI-14	400.00	100.00	7.00	AVERAGE OF 88-209 & 211 = .20/7.0	0.20	23,330.00	4,670.00
DI-15	200.00	100.00	9.00	AVERAGE OF DI-19 & 896 A = .3/9.0	0.30	15,000.00	4,500.00
DI-16	300.00	100.00	9.00	AVERAGE OF DI-12 & 806 B = .22/9.0	0.22	22,500.00	4,950.00
DI-17	320.00	100.00	8.00	AVERAGE OF 196 & 202 = .14/8	0.14	21,330.00	
DI-18	250.00	200.00	6.00	EXTENSION OF 88-211	0.42	25,000.00	10,500.00
DI-19	260.00	200.00	8.00	AVERAGE OF 211 & 203 = .29/8	0.29	34,670.00	10,050.00
DI-20	200.00	200.00	12.00	EXTENSION OF 88-196	0.11	40,000.00	
DI-21	180.00	200.00	11.00	AVERAGE OF 196 & 203 = .16/11.0	0.16	33,000.00	5,280.00
DI-22	800.00	250.00	6.00	AV. OF DI-18, 806A, DI-19, DI-25, 665A, DI-26, 665B = .25/11	0.25	100,000.00	25,000.00
DI-23	500.00	200.00	10.00	AVERAGE OF 806B, 806C, DI-20 & DI-27 = .15/10	0.15	83,330.00	12,500.00
DI-24	600.00	50.00	5.00	AVERAGE OF N-1, 2 & 3 = .24/5.0	0.24	12,500.00	3,000.00
DI-25	300.00	200.00	4.50	EXTENSION OF 88-204	0.12	22,500.00	
DI-26	330.00	200.00	5.50	AVERAGE OF 194 & 204 = .14/5.5	0.14	30,250.00	
DI-27	200.00	200.00	6.50	EXTENSION OF 88-194	0.15	21,670.00	3,250.00
TOTAL TONS						709,340.00	
TOTAL OZ. GOLD							156,400.00
WEIGHTED AVERAGE						0.22	

ESPERANZA EXPLORATIONS LTD.

HEINO-MONEY DEPOSIT

RESERVE BLOCKS

BLOCK	DIMENSIONS (L x W x T)	TONS	GRADE (OZ/TON GOLD)	OUNCES GOLD
BLOCK A	180' x 75' x 5'	5,625	0.50	2,813
BLOCK B	180' X 65' X 8'	7,800	1.40	10,920
BLOCK C	190' X 35' X 8'	4,430	0.80	3,544
BLOCK D	170' X 50' X 5'	3,540	0.94	3,328
BLOCK E	250' X 58' X 6'	7,250	0.40	2,900
BLOCK F	190' X 50' X 8'	6,330	1.60	10,128
BLOCK G	165' X 25' X 8'	2,750	0.60	1,650
BLOCK H	265' X 50' X 8'	8,830	1.60	14,128
BLOCK I	85' X 30' X 6'	1,270	0.40	508
BLOCK J	130' X 22' X 6'	1,430	0.41	586
BLOCK K	30' X 50' X 6'	750	1.35	1,013
BLOCK L	220' X 50' X 6'	5,500	0.80	4,400
TOTAL:		55,505	1.00	55,918

01/18/89  
WJR/gs  
HEINORES