

000879

filename: EORE0490

01-May-90  
04:30 PM

EAST PHASE MANUAL ORE RESERVE CALCULATIONS on section

D.TENNEY - APRIL 29th.90

Assays are to 15% Pb/Zn.

9 cu ft to tonne. ? (should use 10)

need grade factor of ? .84 (subjective)

North is 118+000E to 124+070E

South is 125+000E to 128+000E.

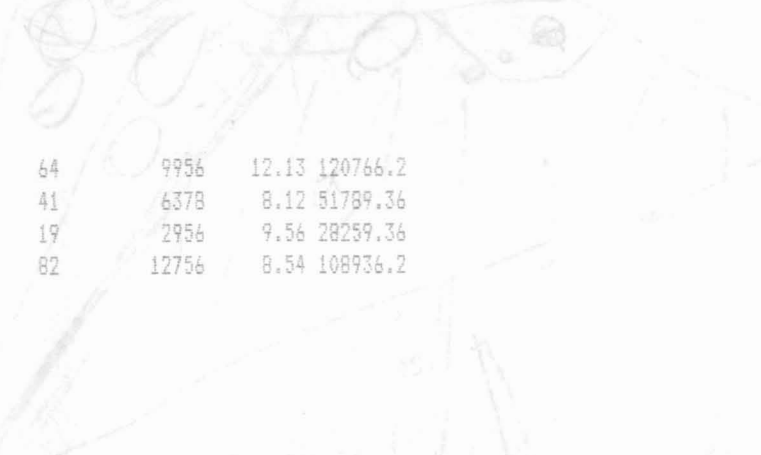
HIGH GRADE (+6%)

BENCH	SECTION	BLOCK #	HOLE #	LENGTH FT.	HEIGHT FT.	TONNAGE FACTOR		9 CU.FT./TONNE		STRIKE FT.	TONNES	Pb+Zn%			
						STRIKE FT.	TONNES	Pb+Zn%	Pb+Zn%						
3670	119+000	1		55	20	70		8556	7.74	66223.44	1	55	8556	7.74	66223.44
3670								8556	7.74	66223.44					
3650	118+070	1		4	20	70		622	7.63	4745.86	1	4	622	7.63	4745.86
	119+000	2		50	20	70		7778	6.58	51179.24	2	50	7778	6.58	51179.24
	119+070	1		63	20	70		9800	6.24	61152.1	1	63	9800	6.24	61152.1
	120+000	1		103	20	70		16022	6.39	102380.5	1	103	16022	6.39	102380.5
	122+000	1		64	20	70		9956	10.14	100953.8	1	64	9956	10.14	100953.8
3650								44178	7.25	320411.5					
3630	118+000	1		50	20	70		7778	7.51	58412.78	1	50	7778	7.51	58412.78
	118+070	2		16	20	70		2489	14.02	34895.78	2	16	2489	14.02	34895.78
	118+070	4		64	20	70		9956	7.31	72778.36	4	64	9956	7.31	72778.36
	119+000	4		58	20	70		9022	8.73	78762.06	4	58	9022	8.73	78762.06
	119+000	5		21	20	70		3267	8.29	27083.43	5	21	3267	8.29	27083.43
	119+000	6		72	20	70		11200	9.74	109088	6	72	11200	9.74	109088
	119+070	3		55	20	70		8556	9.68	82822.08	3	55	8556	9.68	82822.08
	120+000	2		68	20	70		10578	6.23	65900.94	2	68	10578	6.23	65900.94
	120+070	2		67	20	70		10422	7.01	73058.22	2	67	10422	7.01	73058.22
	121+000	3		78	20	70		12133	6.32	76680.56	3	78	12133	6.32	76680.56
	122+000	2		68	20	70		10578	6	63468	2	68	10578	6	63468
3630								95979	7.74	742950.2					
3610	118+000	2		82	20	70		12756	7.72	98476.32	2	82	12756	7.72	98476.32
	118+000	3		8	20	70		1244	11.78	14654.32	3	8	1244	11.78	14654.32
	118+070	5		29	20	70		4511	7.22	32569.42	5	29	4511	7.22	32569.42
	119+000	7		13	20	70		2022	7.11	14376.42	7	13	2022	7.11	14376.42
	119+000	9		42	20	70		6533	6.13	40047.29	9	42	6533	6.13	40047.29
	119+000	10		2	20	70		311	11.41	3548.51	10	2	311	11.41	3548.51
	120+000	4		39	20	70		6067	8.68	52661.56	4	39	6067	8.68	52661.56
	120+070	3		5	20	70		778	7.56	5881.68	3	5	778	7.56	5881.68
	121+070	2		100	20	70		15556	6.37	99091.72	2	100	15556	6.37	99091.72
	122+070	2		82	20	70		12756	15	191340	2	82	12756	15	191340
	123+000	1		100	20	70		15556	6.03	93802.68	1	100	15556	6.03	93802.68
	126+000	1		45	20	70		7000	7.55	52850	1	45	7000	7.55	52850
3610								85090	8.22	699299.9					
3590	118+000	4		21	20	70		3267	11.63	37995.21	4	21	3267	11.63	37995.21
	119+000	11		26	20	70		4044	8.1	32756.4	11	26	4044	8.1	32756.4
	119+070	6		10	20	70		1556	8.04	12510.24	6	10	1556	8.04	12510.24
	120+000	5		13	20	70		2022	10.01	20240.22	5	13	2022	10.01	20240.22
	121+000	6		11	20	70		1711	8.14	13927.54	6	11	1711	8.14	13927.54
	122+070	3		82	20	70		12756	14.04	179094.2	3	82	12756	14.04	179094.2
	123+000	2		47	20	70		7311	6.34	46351.74	2	47	7311	6.34	46351.74
	126+000	2		57	20	70		8867	6.72	59586.24	2	57	8867	6.72	59586.24
	127+000	1		80	20	70		12444	6.63	82503.72	1	80	12444	6.63	82503.72

3570	118+000	5	59	20	70	9178	9.54	87558.12	5
	118+070	7	65	20	70	10111	7.91	79978.01	7
	118+070	8	52	20	70	8089	9.79	79191.31	8
	119+000	13	48	20	70	7467	6.36	47490.12	13
	119+070	7	4	20	70	622	6.02	3744.44	7
	121+000	8	32	20	70	4978	9.07	45150.46	8
	122+070	5	83	20	70	12911	13.95	180108.4	5
	123+000	3	65	20	70	10111	11.23	113546.5	3
	125+000	1	95	20	70	14778	6.37	94135.86	1
	126+000	3	57	20	70	8867	12.08	107113.3	3

59	9178	9.54	87558.12	5
65	10111	7.91	79978.01	7
52	8089	9.79	79191.31	8
48	7467	6.36	47490.12	13
4	622	6.02	3744.44	7
32	4978	9.07	45150.46	8
83	12911	13.95	180108.4	5
65	10111	11.23	113546.5	3

3570						87112	9.62	838016.6	
3550	118+070	9	64	20	70	9956	12.13	120766.2	9
	118+070	10	41	20	70	6378	8.12	51789.36	10
	122+000	4	19	20	70	2956	9.56	28259.36	4
	122+070	8	82	20	70	12756	8.54	108936.2	8
	126+000	4	26	20	70	4044	6.81	27539.64	4
	126+000	5	22	20	70	3422	6.94	23748.68	5
	126+070	1	50	20	70	7778	9.54	74202.12	1
	127+070	1	65	20	70	10111	6.64	67137.04	1
	128+000	2	42	20	70	6533	7.76	50696.08	2



3550						63934	8.65	553074.8	
3530	118+000	6	4	20	70	622	12.25	7619.5	6
	118+070	11	48	20	70	7467	9.71	72504.57	11
	118+070	12	49	20	70	7622	13.45	102515.9	12
	119+070	9	66	20	70	10267	6.67	68480.89	9
	120+000	9	90	20	70	14000	10.04	140560	9
	120+000	10	76	20	70	11822	9.74	115146.2	10
	120+000	11	4	20	70	622	7.31	4546.82	11
	120+000	12	10	20	70	1556	12.41	19309.96	12
	120+070	10	75	20	70	11667	6.04	70468.68	10
	121+070	5	23	20	70	3578	7.46	26691.88	5
	123+000	4	127	20	70	19756	7.96	157257.7	4
	126+000	6	40	20	70	6222	9.39	58424.58	6
	128+000	3	12	20	70	1867	7.45	13909.15	3
	128+000	4	50	20	70	7778	12.34	95980.52	4
	128+000	5	62	20	70	9644	9.21	88821.24	5

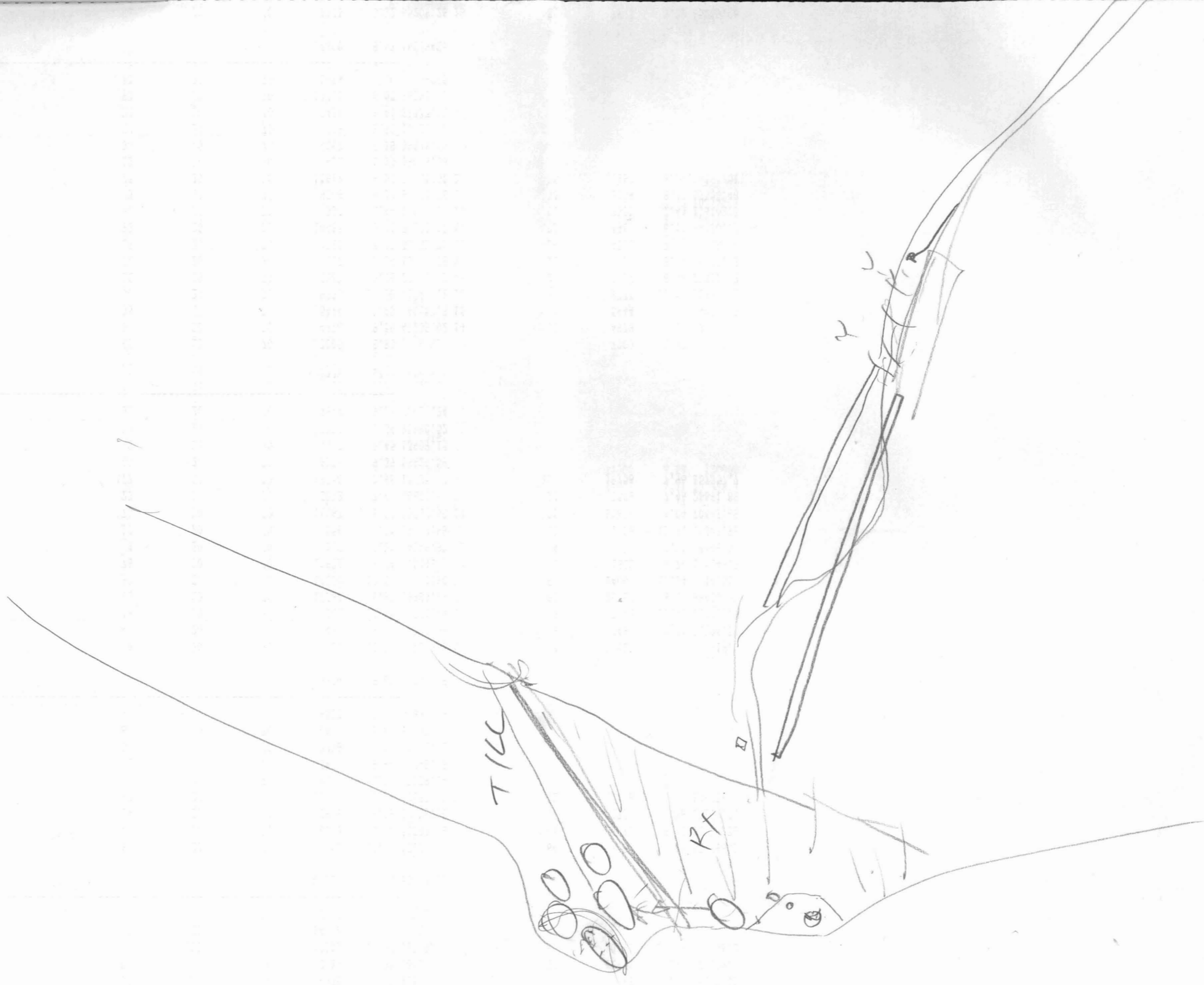
4	622	12.25	7619.5	6
48	7467	9.71	72504.57	11
49	7622	13.45	102515.9	12
66	10267	6.67	68480.89	9
90	14000	10.04	140560	9
76	11822	9.74	115146.2	10
4	622	7.31	4546.82	11
10	1556	12.41	19309.96	12
75	11667	6.04	70468.68	10
23	3578	7.46	26691.88	5
127	19756	7.96	157257.7	4

3530						114490	9.1	1042237.	
3510	118+000	7	45	20	70	7000	8.83	61810	7
	118+070	14	32	20	70	4978	9.59	47739.02	14
	119+000	15	35	20	70	5444	7.45	40557.8	15
	119+000	16	60	20	70	9333	12.58	117409.1	16
	119+000	17	21	20	70	3267	8.36	27312.12	17
	119+070	12	12	20	70	1867	8.74	16317.58	12
	120+000	13	29	20	70	4511	7.18	32388.98	13
	120+000	14	93	20	70	14467	6.51	94180.17	14
	120+000	15	60	20	70	9333	12.44	116102.5	15
	124+000	1	53	20	70	8244	8.17	67353.48	1
	124+000	2	75	20	70	11667	6.53	76185.51	2
	126+000	7	22	20	70	3422	11.13	38086.86	7
	127+000	4	30	20	70	4667	8.18	38176.06	4
	127+000	5	77	20	70	11978	8.95	107203.1	5
	127+000	6	22	20	70	3422	6.41	21935.02	6
	127+070	3	92	20	70	14311	6.03	86295.33	3
	128+000	6	43	20	70	6689	10	66890	6

4	622	12.25	7619.5	6
48	7467	9.71	72504.57	11
49	7622	13.45	102515.9	12
66	10267	6.67	68480.89	9
90	14000	10.04	140560	9
76	11822	9.74	115146.2	10
4	622	7.31	4546.82	11
10	1556	12.41	19309.96	12
75	11667	6.04	70468.68	10
23	3578	7.46	26691.88	5
127	19756	7.96	157257.7	4

3510						124600	8.47	1055942.	
3490	119+000	18	51	20	70	7933	8.22	65209.26	18

45	7000	8.83	61810	7
32	4978	9.59	47739.02	14
35	5444	7.45	40557.8	15
60	9333	12.58	117409.1	16
21	3267	8.36	27312.12	17
12	1867	8.74	16317.58	12
29	4511	7.18	32388.98	13
93	14467	6.51	94180.17	14
60	9333	12.44	116102.5	15
53	8244	8.17	67353.48	1
75	11667	6.53	76185.51	2





MEDIUM GRADE(5-6%)

BENCH	HOLE #	LENGTH FT.	TONNAGE FACTOR		9 CU.FT/TONNE							
			HEIGHT FT.	STRIKE FT.	TONNES	Pb+Zn%						
3670	121+000 1	93	20	70	14467	5.51	79713.17	1	93	14467	5.51	79713.17
3670					14467	5.51	79713.17					
3650	119+000 3	28	20	70	4356	5.66	24654.96	3	28	4356	5.66	24654.96
	122+070 1	35	20	70	5444	5.25	28581.1	1	35	5444	5.25	28581.1
3650					9800	5.43	53235.96					
3630	118+070 3	49	20	70	7622	5.11	38948.42	3	49	7622	5.11	38948.42
	119+070 2	32	20	70	4978	5.94	29569.32	2	32	4978	5.94	29569.32
	120+070 1	78	20	70	12133	5.31	64426.23	1	78	12133	5.31	64426.23
	121+000 2	29	20	70	4511	5.56	25081.16	2	29	4511	5.56	25081.16
	121+000 4	74	20	70	11511	5.4	62159.4	4	74	11511	5.4	62159.4
	121+070 1	65	20	70	10111	5.16	52172.76	1	65	10111	5.16	52172.76
3630					50866	5.35	272357.2					
3610	118+070 6	21	20	70	3267	5.02	16400.34	6	21	3267	5.02	16400.34
	119+000 8	61	20	70	9489	5.78	54846.42	8	61	9489	5.78	54846.42
	119+070 4	43	20	70	6689	5.77	38595.53	4	43	6689	5.77	38595.53
	119+070 5	22	20	70	3422	5.74	19642.28	5	22	3422	5.74	19642.28
	120+000 3	63	20	70	9800	5.97	58506.3	3	63	9800	5.97	58506.3
	121+000 5	41	20	70	6378	5.65	36035.7	5	41	6378	5.65	36035.7
3610					39045	5.74	224026.2					
3590	119+000 12	61	20	70	9489	5.45	51715.05	12	61	9489	5.45	51715.05
	120+070 4	31	20	70	4822	5.39	25990.58	4	31	4822	5.39	25990.58
	120+070 5	68	20	70	10578	5.84	61775.52	5	68	10578	5.84	61775.52
	121+000 7	74	20	70	11511	5.84	67224.24	7	74	11511	5.84	67224.24
3590					36400	5.68	206705.3					
3570	120+000 6	71	20	70	11044	5.51	60852.44	6	71	11044	5.51	60852.44
	121+070 3	135	20	70	21000	5.47	114870.3	3	135	21000	5.47	114870.3
	121+070 4	23	20	70	3578	5.92	21181.76	4	23	3578	5.92	21181.76
	122+000 3	12	20	70	1867	5.03	9391.01	3	12	1867	5.03	9391.01
	122+070 4	68	20	70	10578	5.05	53418.9	4	68	10578	5.05	53418.9
	122+070 6	25	20	70	3889	5.41	21039.49	6	25	3889	5.41	21039.49
	127+000 2	60	20	70	9333	5.78	53944.74	2				
3570					61289	5.46	334698.3					
3550	120+070 8	33	20	70	5133	5.66	29052.78	8	33	5133	5.66	29052.78
	121+000 9	58	20	70	9022	5.12	46192.64	9	58	9022	5.12	46192.64
	122+070 7	59	20	70	9178	5.18	47542.04	7	59	9178	5.18	47542.04
	125+000 2	101	20	70	15711	5.2	81697.2	2				
	128+000 1	45	20	70	7000	5.22	36540	1				
3550					46044	5.23	241024.6					
3530	119+000 14	66	20	70	10267	5.27	54107.09	14	66	10267	5.27	54107.09
	120+070 9	61	20	70	9489	5.53	52474.17	9	61	9489	5.53	52474.17
	121+000 10	59	20	70	9178	5.01	45981.78	10	59	9178	5.01	45981.78
	122+000 5	47	20	70	7311	5.18	37870.98	5	47	7311	5.18	37870.98
	127+000 3	15	20	70	2333	5.73	13368.09	3				
	127+070 2	77	20	70	11978	5.31	63603.18	2				
3530					50556	5.29	267405.2					

3510	119+070	10	77	20	70	11978	5.09	60968.02	10	77	11978	5.09	60968.02
	119+070	11	55	20	70	8556	5.34	45689.04	11	55	8556	5.34	45689.04
	121+000	11	25	20	70	3889	5.61	21817.29	11	25	3889	5.61	21817.29
	126+070	2	41	20	70	6378	5.02	32017.56					
	126+070	3	160	20	70	24889	5.56	138382.8					
	128+000	7	51	20	70	7933	5.16	40934.28					
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3510						63623	5.34	339809.0					
3490	119+070	13	35	20	70	5444	5.74	31248.56	13	35	5444	5.74	31248.56
	127+000	7	45	20	70	7000	5.34	37380					
	127+000	9	10	20	70	1556	5.51	8573.56					
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3490						14000	5.51	77202.12					
3470	120+000	18	29	20	70	4511	5.96	26885.56	18	29	4511	5.96	26885.56
	120+070	11	35	20	70	5444	5.06	27546.64	11	35	5444	5.06	27546.64
	121+070	6	100	20	70	15556	5.91	91935.96	6	100	15556	5.91	91935.96
	124+000	3	96	20	70	14933	5.25	78398.25	3	96	14933	5.25	78398.25
	125+000	4	34	20	70	5289	5.52	29195.28					
	127+070	5	81	20	70	12600	5.75	72450					
	127+070	6	82	20	70	12756	5.48	69902.88					
	128+000	10	75	20	70	11667	5.1	59501.7					
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3470						82756	5.51	455816.2					
3450	121+070	7	86	20	70	13378	5.07	67826.46	7	86	13378	5.07	67826.46
	127+070	8	70	20	70	10889	5.63	61305.07	8	70	10889	5.63	61305.07
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3450						24267	5.32	129131.5					

NORTH END RESERVES 41%<sup>60</sup> 356690 5.45 1943634.  
 SOUTH END (5-6%) 136423 5.41 737491

SUMMARY OF ORE IN EAST PHASE (MANUAL CALCULATION)

MEDIUM GRADE (5-6%)

BENCH	TONNES	Pb+Zn%	
3670	14467	5.51	79713.17
3650	9800	5.43	53235.96
3630	50866	5.35	272357.2
3610	39045	5.74	224026.2
3590	36400	5.68	206705.3
3570	61289	5.46	334698.3
3550	46044	5.23	241024.6
3530	50556	5.29	267405.2
3510	63623	5.34	339809.0
3490	14000	5.51	77202.12
3470	82756	5.51	455816.2
3450	24267	5.32	129131.5
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total	493113	5.44	2681125.

TOTAL ORE (+5%) 1524297 7.47 ~~26~~ 11384651

ORE IN WALL OF PIT

HIGH GRADE (+6%)

SECTION	BENCH	BLOCK #	HOLE #	LENGTH FT.	HEIGHT FT.	STRIKE FT.	TONNES	Pb+Zn%
118+070	3550	10A		9	20	70	1400	8.12 11368
118+070	3530	12A		10	20	70	1556	13.45 20928.2
118+070	3530	13A		55	20	70	8556	10.32 88297.92
118+070	3510	14A		22	20	70	3422	9.59 32816.98
118+070	3510	15A		55	20	70	8556	6.04 51678.24
118+070	3450	17A		30	20	70	4667	9.29 43356.43
119+000	3670	1A		65	20	70	10111	7.74 78259.14
119+000	3610	9A		4	20	70	622	6.13 3812.86
119+000	3610	10A		67	20	70	10422	11.41 118915.0
119+000	3510	17A		38	20	70	5911	8.36 49415.96
119+000	3490	19A		50	20	70	7778	6 46668
119+070	3590	6A		71	20	70	11044	8.04 88793.76
119+070	3570	7A		87	20	70	13533	6.02 81468.66
119+070	3550	8A		100	20	70	15556	8.56 133159.3
119+070	3510	12A		62	20	70	9644	8.74 84288.56
120+000	3610	4A		33	20	70	5133	8.68 44554.44
120+000	3590	5A		74	20	70	11511	10.01 115225.1
120+000	3570	7A		74	20	70	11511	7.68 88404.48
120+000	3530	10A		4	20	70	622	9.74 6058.28
120+000	3530	11A		82	20	70	12756	7.31 93246.36
120+000	3510	15A		20	20	70	3111	12.44 38700.84
120+000	3450	19A		4	20	70	622	7.21 4484.62
120+000	3450	20A		102	20	70	15867	7.74 122810.5
120+070	3610	3A		67	20	70	10422	7.56 78790.32
120+070	3590	6A		60	20	70	9333	9.35 87263.55
120+070	3570	7A		49	20	70	7622	6.65 50686.3
121+070	3530	5A		56	20	70	8711	7.46 64984.06
121+070	3450	8A		44	20	70	6844	7.03 48113.32
124+070	3510	1A		90	20	70	14000	6.79 95060
124+070	3490	3A		93	20	70	14467	6.25 90418.75
124+070	3470	4A		20	20	70	3111	6.98 21714.78
125+000	3510	3A		84	20	70	13067	8.66 113160.2
125+000	3450	5A		69	20	70	10733	6.79 72877.07
125+070	3490	1A		100	20	70	15556	9.63 149804.2
126+000	3550	5a		25	20	70	3889	6.94 26989.66
127+000	3510	6a		76	20	70	11822	6.41 75779.02
127+070	3470	7a		34	20	70	5289	6.28 33214.92

total 308777 7.95 2455568.

ORE IN WALL OF PIT

MEDIUM GRADE (5-6%)

SECTION	BENCH	BLOCK #	HOLE #	LENGTH FT.	HEIGHT FT.	STRIKE FT.	TONNES	Pb+Zn%
118+070	3610	6a		50	20	70	7778	5.02 39045.56
119+000	3650	3a		80	20	70	12444	5.66 70433.04
119+070	3610	5A		50	20	70	7778	5.74 44645.72
119+070	3490	13A		65	20	70	10111	5.74 58037.14
120+000	3570	6A		8	20	70	1244	5.51 6854.44
120+000	3570	8A		25	20	70	3889	5.95 23139.55
120+000	3470	18A		65	20	70	10111	5.96 60261.56
120+070	3590	5A		14	20	70	2178	5.84 12719.52
120+070	3550	8A		40	20	70	6222	5.6 34843.2

121+070	3570	4A	53	20	70	8338	5.72	30831.32
122+070	3570	6A	74	20	70	11511	5.41	62274.51
123+070	3450	1A	84	20	70	13067	5.86	76572.62
127+000	3490	9A	88	20	70	13689	5.51	75426.39
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total						108578	5.66	614904.7