

*Current Ore Reserve March '77*

# MINERAL RESERVE SUMMARY

Y-9019813

## SECTION - LEGEND

DATE: 13 MARCH 1977  
CALCULATION BY: J. B.

### GRUM DEPOSIT

REVISED:

ORE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			Pb + Zn %	Total Sulph. %	REMARKS
						Pb %	Zn %	Ag gm/mL			
											7-12% Pb+Zn
											10-12%
											8-10%
											6-8%
											4-6%
											⊗ Mineral adjoining higher grade H.W. or F.W.
											* Mineral not adj. H.W. or F.W. of higher grade.
											T sub-total.
											K Grand total
											V Mineral on KEEL ADDISON ground
											KV Mineral on VANBORDA ground
											Min. on KEEL and VANBORDA

*SYMBOLS ON SECTIONS 62<sup>w</sup>, 64<sup>w</sup>, 66<sup>w</sup> & 68<sup>w</sup>  
(SECTIONS 70<sup>w</sup> to 86<sup>w</sup> do not show  
these symbols, as all ore is  
on Keel Addison ground.)*

# MINERAL RESERVE SUMMARY

## SECTION 62W

### GRUM DEPOSIT

DATE: Feb, 10/77

CALCULATION BY: F. CHOW

REVISED: March 3/77

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph. %	REMARKS
						Pb %	Zn %	Ag gm/ml	Pb % m.t.	Zn % m.t.	Ag gm m.t.			
A-1	36	15.8	569 ✓	4	2276 ✓	7.28 ✓	14.31 ✓	107	16,569	32,570	243,532	☑		High Zn
A-2	60	3	180 ✓	3	540 ✓	3.67 ✓	6.66 ✓	60	2,427 1,982	4,496 3,596	40,500 32,400	☐		High Zn 22.5 m <sup>2</sup>
A-1,2 incl.	96	7.8	749 ✓	3.76	2816	6.58	12.84	98	18,551	36,166	275,932			
A-3	33	9.5	314 ✓	4	1256 ✓	3.26 ✓	5.55 ✓	50	4,095	6,971	62,800	☐		
A-1,2,3 incl.	129	8.2	1063 ✓	3.33	4072	5.56	10.59	83	22,646	43,137	338,732			
A-4	17	3	51 ✓	4	204 ✓	2.95	3.58	49	602	730	9,996	☐		
A-5	15	1.4	21 ✓	3	63 ✓	2.93	3.54	47	185	242	2,961	☐		⊗ H.W. of A-2
A-1 to 5 incl.	146	7.8	1135 ✓	3.32	4339	5.40	10.17	81	23,433	44,109	351,689			
D-1	50	3.8	190 ✓	4	760 ✓	3.51	2.98	46	2,668	2,265	34,960	☐		Pb > Zn
D-2	83	3.7	307 ✓	4	1228 ✓	2.38	1.87	33	2,923	2,296	40,524	☐		Pb > Zn, 4/meg karite
D-3	89	4.8	421 ✓	4	1708 ✓	2.56	2.29	34	4,372	3,911	58,072	☐		as above
E-1	41	5.1	209 ✓	3	627 ✓	2.36	2.93	32	1,480	1,837	20,064	☐		⊗ H.W. of E-2. High Pb
E-2	39	3.0	117 ✓	3	351 ✓	3.74	6.46	52	1,313	2,267	18,252	☐		
E-1,2 incl.	40	4.1	326 ✓	3	978	2.86	4.2	39	2,793	4,104	38,316			
F-1	46	3	138 ✓	4	552 ✓	4.39	4.64	55	2,423	2,561	30,360	☐		High Pb
F-2	57	3.6	205 ✓	4	820 ✓	2.81	3.89	28	2,304	3,190	22,960	☐		
F-1,2 incl.	103	3.3	343 ✓	4	1372	3.45	4.19	39	4,727	5,751	53,320			
TOTAL									41,410 ✓	63,336 ✓	584,981 ✓			
									41,410	63,336				



# MINERAL RESERVE SUMMARY

## SECTION 62W

### GRUM DEPOSIT

DATE: FEB, 10/77

CALCULATION BY: F. CHOW

REVISED: March 3/77

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph. %	REMARKS	
						Pb %	Zn %	Ag gm/m <sup>3</sup>	Pb % m.t.	Zn % m.t.	Ag gm m.t.				
<b>TOTAL HERR ADDISON and VANGORRA MINERAL RESERVES:</b>															
>12%	36	15.8	569	4	2276	7.28	14.31	107	16,569	32,570	243,532	21.59			
10-12%	99	3.0	297	3	891	3.1	6.58	57	3,295	5,863	50,652	10.28			
7-10%	135	6.4	866	3.66	3167	6.27	12.14	93	19,864	38,433	294,184	18.41			
8-10%	79	5.7	452	4	1808	3.61	5.27	52	6,518	9,532	93,160	8.59			
7-8%	214	6.16	1318	3.77	4975	5.30	9.64	78	26,382	47,965	387,344	14.94			
* 6-8%	124	3.6	446	4	1784	3.12	3.47	38	5,574	6,185	67,916	6.59			* excluding full W
⊕ 6-8%	15	1.4	21	3	63	2.93	3.84	47	185	242	2,961	6.77			⊕ adjoining H.W. to A-2
T 6-8% incl.			467	3.76	1847	3.12	3.48	38	5759	6427	70,877	6.60			T including adj. full W plus
⊕ 7-6%	214	6.26	1339	3.76	5038	5.27	9.57	77	26,567	48,207	390,305	14.87			⊕ 7-8%, plus adjoining H.W./F.W. of higher grade
T 7-6%	338	5.28	1785	3.82	6822	4.71	7.97	67	32,141	54,392	458,221	12.70			T incl. adj. full W plus
T 7-6%			943	3.78	3563	2.46	2.26	33	8,775	8,044	118,660	4.74			T = total of 7-6%
⊕ 4-6	41	5.1	209	3	627	2.36	2.93	32	1,480	1,937	20,067	5.29			⊕ Adj. H.W./F.W. of higher grade
* 4-6	172	4.27	734	4	2935	2.48	2.11	34	7,295	6,207	98,596	4.59			* Net. adj. H.W./F.W. of higher grade
⊕ 7-4	338	5.90	1994	3.74	7447	4.51	7.55	64	33,621	56,229	473,285	12.06			
T 7-4	510	5.35	2728	3.81	10,385	3.94	6.01	56	40,916	62,436	576,881	9.95			

SECTION 64 W

GRUM DEPOSIT

DATE: Feb. 12/77

CALCULATION BY: J. [Signature]

REVISED: Mar. 11/77

SEGMENT	DIP Length	Thick-ness	AREA m <sup>2</sup>	S.G.	TONNE / m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph %	REMARKS
						Pb %	Zn %	Ag gm/m <sup>2</sup>	Pb % m.t.	Zn % m.t.	Ag gm m.t.			
A-1	42	12.4	520.9 521	4	2083	5.58	13.16	97	11,624	27,415	202,144 202,070	12		high Zn
A-2	33	14.5	478.5 479	4	1914	5.33	8.59	81	10,202	16,441	155,034	10-12		
A-3	23	7.2	165.6 166	4	662	4.13	6.92	79	2,736	4,584	52,330	10-12		
A-4	35	12.3	520 431	4	1722	7.25	12.61	124	15,500 12,485	26,229 21,714	257,920 213,528	12		520 m <sup>2</sup>
A-5	18	3	54	3.4	216	3.68	8.27	62	795	1,786	13,392	10		X
A-4.5	98	11.9	1166	4	4659	5.27	10.4	88	24,562	49,440	409,434			
A-4.5	53	9.2	485	4	1938	6.85	12.13	117	13,280	23,500	226,930			
A-6	9.1	3.2	45 29	3	135 86	3.09	4.21	40	417 267	568 364	5450 3456	6-8		45 m <sup>2</sup>
A-7	40	1.8	72	3	216	2.00	3.24	20	432	700	4,320	4-6		H.W. of A-1
A-8	32	3.9	125	3	374	1.83	4.34	26	685	1625	9734	7		
B-1	51.8 76	4.5	233 342	4	932 1368	2.30	2.35	41	2143 3146	2190 3215	38,212 56,088	1		P7 E 233 m <sup>2</sup>
B-2	28	4.7	132	4	528	3.91	3.45	57	2064 2058	1822 1816	30,096 30,005	7		P7 E
B-3	42	3.9	164	4	655	1.40	3.49	38	917	2287	24,898	1		high E
B-4	40	5	200	4	800	1.90	3.22	31	1520	2576	24,800	1		
B-5	19	0.7	13	3	40	1.64	2.64	35	65	105	1397	7		H.W. of B-4
B-6	(27)	(3)	(81)	3	(243)	2.04	4.69	33	(496)	(1140)	(8019)	(K.V.)		high E
B-6.1	55	3.9	213	3.61	769	3.32	3.84	49	2554	2956	38,024			
B-6.2	158	4.6	719	3.98	2863	1.97	2.86	37	5648	8183	107,183			
B-6(K)	23	3	69	3	207	2.04	4.69	33	422	971	6,831	7		
B-6(V)	4	3	12	3	36	2.04	4.69	33	74	169	1,185	7		
D-1	30	3.9	117	3	351	3.32	4.87	51	1165	1709	17,981	7		
D-2	30	3.6	108	3	324	1.59	3.08	22	515	998	7,128	7		F.W. of D-1
D-3	33	3.1	102	3	307	1.43	3.49	26	439	1071	7979	7		* below D-2 High E
D-4	32	7.9	253	4	1011	8.14	10.62	120	8231	10,739	121,344	12		very narrow
D-5	28	3.9	109	3	328	2.64	3.42	38	865	1,120	12,449	7		F.W. of D-4
D-6	24	3.2	77	3	230	2.64	4.38	42	608	1009	9,677	7		* below D-5
D-7	30	9.3	279	4	1116	5.56	6.78	75	6205	7566	83,700	12		high barite ± mag.
D-8	35	2	70	3	210	2.10	2.70	29	441	567	6,090	7		F.W. of D-7 High Pb
D-9	25	7.3	183	4	730	5.92	7.11	81	4,322	5,190	59,130	12		High barite ± mag.
D-10	21	2.5	53	3.5	184	4.13	2.71	49	759	490	9,004	7		F.W. of D-9 High Pb
D-11	87	3.2	715	4	2857	6.57	8.22	92	18,758	23,494	264,174			
D-12	73	3.3	239	3.1	742	3.01	3.54	42	2232	2627	31,130			
D-13	90	2.9	280	3	841	1.66	3.13	25	1395	2636	21,177			* Ind. narrow F.W. of D-1
D-14	25	6.6	165	4	660	5.84	6.15	78	3854	4059	51,480	12		High barite ± mag. P ± E
D-15	(37)	(3)	(111)	4	(444)	2.48	3.17	31	(1101)	(1407)	(13,764)	(K.V.)		High Pb, high mag.
D-16	54	3	162	4	648	2.63	3.16	41	1704	2048	26,568	1		High Pb
D-17	37	4.4	163	4	651	3.38	4.65	37	2201	3028	24,094	7		
D-18	53	5	265	4	1060	2.76	2.19	41	2926	2321	43,460	1		P7 E
D-19	39	3	117	4	468	2.85	3.24	44	1334	1517	20,595	7		High Pb
D-20	44	5.3	233	4	933	2.48	2.07	33	2313	1931	30,792	1		High Pb

# MINERAL RESERVE SUMMARY

## SECTION - 64<sup>W</sup>

### GRUM DEPOSIT

DATE :  
CALCULATION BY: J. L. H.  
REVISED: Mar. 11/77.

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph. %	REMARKS
						Pb %	Zn %	Ag gm/m <sup>3</sup>	Pb % m.t.	Zn % m.t.	Ag gm m.t.			
D-12 <sup>(K)</sup>	19	3	57	4	228	2.48	3.17	31	565	722	7,068	(K)		
D-12 <sup>(V)</sup>	18	3	54	4	216	2.48	3.17	31	536	685	6,696	(V)		
D-14, 16	76	3.7	280	4	1119	3.16	4.06	40	3535	2545	41,689			
D-12, 13, 15, 17	188	4.1	771	4	3085	2.61	2.5	37	8044	7707	114,574			
<b>TOTAL KERR ADDISON and VANCOUVER SDA MINERAL RESERVES :</b>														
7-12 <sup>1/2</sup> <sup>1/2</sup> <sub>12</sub>	197	10.9	2146	4	8576	6.19	10.39	97	53,069	89,064	834,606			
10-12	66	5.8	385	3.99	1538	4.80	6.78	76	7,385	10,429	117,202			
7-10	263	9.6	2531	4	10,114	5.98	9.84	94	60,454	99,493	952,008			
8-10	30	3.9	117	3	351	3.32	4.87	51	1,165	1,709	17,901			
7-8	293	9.0	2648	3.95	10,465	5.89	9.67	93	61,619	101,202	969,909			
⊗ 6-8	49	3.31	162	3.16	512	3.17	3.16	42	1,624	1,618	21,453			⊗ Adj. H.W./F.W. higher grade
* 6-8	196	3.7	724	3.56	2,578	2.97	4.07	41	7,649	10,499	105,580			* Not adj. H.W./F.W. of higher grade
T 6-8			886	3.49	3,090	3.00	3.92	41	9,273	12,117	127,033			T = total incl.
⊗ 7-6	293	9.59	2810	3.91	10,977	5.76	9.37	90	63,243	102,820	991,362			⊗ 7.6%, plus adj. 6-8% H.W./F.W.
T 7-6	489	7.23	3534	3.84	13,555	5.23	8.36	91	70,892	113,319	1,096,942			T = total of 7.6% incl.
⊗ 4-6	124	2.12	263	3.0	790	1.84	3.00	24	1,453	2,370	18,935			⊗ Adj. H.W./F.W. of higher grade
* 4-6	303	4.03	1237	3.92	4,847	2.25	2.81	36	10,920	13,641	172,251			* Not adj. H.W./F.W. of higher grade
T 4-6			1500	3.76	5,637	2.19	2.84	34	12,373	16,011	191,186			T = total of 4-6% incl.
⊗ 7-4	489	7.76	3797	3.78	14,345	5.04	8.06	78	72,345	115,689	1,115,877			⊗ 7.6%, plus adj. 4-6% H.W./F.W.
T 7-4	792	6.36	5034	3.81	19,192	4.34	6.74	67	83,265	129,330	1,288,128			T = total of 7.4% incl.

# MINERAL RESERVE SUMMARY

## SECTION 64<sup>W</sup>

GRUM DEPOSIT

DATE: Mar. 4/77

CALCULATION BY: J. J. [Signature]

REVISED:

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph. %	REMARKS
						Pb %	Zn %	Ag gm/m.	Pb % m.t.	Zn % m.t.	Ag gm m.t.			
<u>TOTAL KERR ADDISON MINERAL RESERVES:</u>														
> 12%	110	13.01	1431	4	5719	6.00	11.47	100	34,311	65,570	570,632			
10-12%	41	5.37	220	3.98	878	4.02	7.26	75	3,531	6,370	65,722			
> 10%	151	10.93	1651	4	6597	5.74	10.90	96	37,941	71,940	636,354			
8-10%														
> 8%			same	as	> 10%									same as > 10%
ⓐ 6-8%														ⓐ Adj. NW/FW of higher grade (M)
* 6-8%	168	3.78	635	3.64	2312	3.01	4.03	41	6,967	9,321	94,715			* Net adj. NW/FW of higher grade.
T 6-8%			as	at	above									
ⓑ 7 6%			same	as	> 10 %									same as > 10%
T 7 6%	319	7.17	2286	3.90	8909	5.03	9.12	82	44,808	81,261	731,069			
ⓐ 4-6%	59	1.44	85	3	256	1.94	3.14	22	497	805	5,717			
* 4-6%	252	4.29	1081	4	4324	2.30	2.75	36	9,945	11,885	157,576			
T 4-6%			1166	3.93	4580	2.28	2.77	36	10,442	12,690	163,293			
ⓑ 7 4	319	7.43	2371	3.87	9165	4.94	5.95	90	45,305	82,066	736,786			ⓑ 7 6% plus adj. NW/FW of 4-6%
T 7 4	571	6.05	3452	3.91	13,489	4.10	6.97	66	55,250	93,951	894,362			T = all inclusive
<u>TOTAL VAN GORDA MINERAL RESERVES:</u>														
> 12%	97	8.22	715	4	2857	6.57	8.22	92	18,758	23,495	264,174			
10-12%	25	6.6	165	4	660	5.84	6.15	78	3,354	4,059	51,430			
> 10	112	7.86	880	4	3517	6.43	7.83	90	22,612	27,554	315,654			
8-10	30	3.9	117	3	351	3.32	4.37	51	1,165	1,709	17,901			
> 8	142	7.02	997	3.88	3868	6.15	7.57	86	23,777	29,263	333,555			
ⓐ 6-8	49	3.31	162	3.16	512	3.17	3.16	42	1,624	1,618	21,453			
* 6-8	28	3.18	89	3	266	2.64	4.38	42	682	1,178	10,865			
T 6-8			251	3.10	778	2.96	3.50	42	2,306	2,796	32,318			
ⓑ 7 6	142	8.16	1159	3.78	4380	5.80	7.05	81	25,401	30,881	355,008			ⓑ 7 8%, plus adj. 6-8% NW/FW.
T 7 6	170	7.34	1248	3.72	4646	5.61	6.90	79	26,083	32,059	365,873			T 7 6%, all inclus
ⓐ 4-6	65	2.74	178	3.0	534	1.79	2.93	25	956	1,565	13,218			
* 4-6	51	3.06	156	3.35	523	1.86	3.36	28	975	1,756	14,675			
T 4-6			334	3.16	1057	1.83	3.14	26	1,931	3,321	27,893			
ⓑ 7 4	170	8.39	1426	3.63	5180	5.22	6.49	73	27,039	33,624	379,091			ⓑ 7 6% plus adj. 4-6% NW/FW.
T 7 4	221	7.16	1582	3.60	5703	4.91	6.20	69	28,014	35,380	393,766			T 7 4%, all incl

SECTION 66 W

GRUM DEPOSIT

DATE: Feb. 21, 1977

CALCULATION BY: *[Signature]*

REVISION:

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph. %	REMARKS
						Pb %	Zn %	Ag gm./m.t.	Pb% m.t.	Zn% m.t.	Ag gm./m.t.			
A-1	37	4.5	200 166.5	3.5	700 582.8	5.6	10.4	37	8920 3263.4	7280 6065.6	53920 21,562	✓		v. High Zn
A-2	35	14.8	518	3	1554.	1.73	3.15	35	2688.4	4895.1	46,620 54,390	1		F.W. of A-1, at H.W. of A-3. Ho
A-3	36	3	108	3	324.	4.61	6.50	59	1493.6	2106.0	19,116	□		
A-4	35	3	105	4	420	5.37	5.88	76	2255.4	3729.6	31,920	✓		Porous
A-5	17.5	7.1	140 124.3	4	560 497	6.13	9	73	3433 3046.0	5046 4473.0	40,980 36,281	✓		some porous 140 m.t.
A-6	26.5	13.8	360 282.9	4	1280 1131.6	5.09	10.15	82	6515 5759.8	12992 14,455.7	104,960 92,771	✓	320	Some porous, high barite, v. High Zn
A-7	58	9.5	551	4	2204.	6.52	8.82	89	14,370.1	19,439.3	186,156	✓		Some porous, high Ba, high Pb.
A-8	47	3.7	173.9	3	521.7	2.91	3.92	35	1518.2	2045.1	18,200	✓		F.W. of A-7 High Pb.
A-9	12	3	36	3	108	4.44	4.94	58	479.5	533.5	6264	□		Pb & Zn.
A-1,3,4 5,6,7	264	6.56	1337.7	3.86	5159.4	5.85	9.17	77	30,188.9	47,294.2	397,826			
									36,674	59,061	517,376			
									36,674	59,061	517,386			
A2-1	30	5.2	156	3	468	1.97	3.63	29	922	1698.8	13,572	1		High Zn.
A2-2	25	6.7	167.5	4	670	8.81	16.36	150	5903 5092.9	10,961.2	100,560	✓		v. High Zn.
A2-3	24	3.9	93.6	4	374.4	4.16	6.30	73	1557.5	2358.7	27,331	□		some porous
A2-4	17	3	51	4	204.	3.63	6.5	59	745.5	1326.0	12,036	□		high barite, also breccia.
A2-5	24	6.5	156	4	624	4.47	5.82	66	2759.3	3651.7	41,184 237,591	□		high Pb.
									11,912	19,976	194,623	✓		
									11,911	19,977	194,623			
B-1	29	3	87	3	261	1.73	3.44	37	451.5	897.8	9657	1		v. High Zn.
B-2	18	3.7	66.6	4	266.4	4.69	6.11	65	1249.4	1627.7	17,316	□		High Pb.
B-3	12	3	36	4	144	1.89	2.99	31	272.2	430.6	4464	1		
B-4	20	3	60	3	180	2.02	2.86	29	363.6	514.8	5220	1		Some breccia.
B-1,3 and 4	61	3	183	3.2	585	1.86	3.15	33	1087.3	1843.2	19,341			
B-1&4	79	3.16	249.6	3.41	851.4	2.74	4.08	43	2336.7	3470.9	36,657	✓		
									2,337	3471	36,657			
									2,337	3471	36,657			
D-1 (v)	20	3	60	3.5	210 105	5.32	5.22	90	1117.2 558.6	1726 863	18,900 2400	✓		some porous B.H.W. of D-10 & D-
D-2 (v)	18	3.9	70.2	3	210.6	1.63	2.86	24	343.3	602.3	5054	1		
D-3 (v)	27	5.6	151.2	3	453.6	1.49	3.13	24	675.7	1442.5	10,886	1		v. High Zn
									2136.4	3771	34,840			
D-4 (v)	32	6	192	3	576	2.03	2.97	33	1169.3	1710.7	19,008	1		w/ Ba. B.H.W. of D-5
D-5 (v)	41	11.2	459.2	4	2040 1836.8	6.87	8.27	92	14,015 12,518.8	16,871 15,195.3	187,680 148,936	✓		High Ba, high Pb 510 m.t.
D-6 (v)	24	6	144	3.5	504	2.35	3.12	35	1184.4	1572.5	17,640	1		w/ Ba B.H.W. of D-7
D-7 (v)	23	10.2	234.6	4	938.4	6.89	6.70	86	6465.6	6287.3	80,702	✓		w/ Ba, some por
D-8 (k+v)	40	8.2	475 338	3.8	1805 1246.4	3.32	3.84	42	5943 3128.4	6931 4286.2	75,810 52,249	1		High Pb B.H.W. of D-9
D-9 (k+v)	36	6.6	237.6	3.8	902.9	5.09	7.40	72	4595.7	6681.3	65,608	1		SEE Page 2 for breakdown
D-10	43	4	172	4	688.	5.48	5.02	65	3770.2	3453.8	44,720	□		Pb & Zn, w/ Ba. some porous. H.
D-11	43	4	172	4	688	4.50	6.98	60	3096.0	4802.2	29,584	□		w/ mag. * below D-10, int
D-12	36	3.7	153.2	4	532.8	2.42	2.38	34	1259.4	1268.1	18,115	1		w/ mag + Ba. Pb >
D-13	32	3	96	3.3	316.8	2.5	3.42	37	792.0	1053.5	11,722	1		High Pb, w/ mag
D-14	15	3	45	3	135.0	3.16	4.04	49	494.1	545.4	6,615	1		High Pb, w/ mag. * B.H.W. of D-12, 13,
D-15	21	3	63	3.5	220.5	2.09	2.43	35	461.9	535.8	7,718	1		High Pb, some bre B.H.W. of D-12, 13, 14
D-16	30	3.2	96	3	288	2.99	5.25	48	861.1	1512.0	13,824	1		H.W.
D-17	39	3	117	4	468	2.42	3.89	39	1132.6	1820.5	18,252	1		w/ Ba, mag & bre F.W. not adj D-
D-18	30	3.4	102	4	408	6.13	8.69	105	2501.0	3545.5	42,840	1		w/ Ba + mag.
D-19	30	1.5	45	4	180	2.28	2.45	35	410.4	441.0	6,300	1		w/ mag. * B.H.W. of D-18
									48,232	59,062	657,243			

# MINERAL RESERVE SUMMARY

## SECTION 66<sup>W</sup>

### GRUM DEPOSIT

DATE: Feb. 21/77

CALCULATION BY: 4.6

REVISION:

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph. %	REMARKS
						Pb %	Zn %	Ag gm/m <sup>3</sup>	Pb % m.t.	Zn % m.t.	Ag gm m.t.			
D-1,5,7, 9,13	150	7.29	1093.4	3.83	4191.1	6.38	7.77	88	26,739.7	32,567.5	366,985			712% combined
D-5,7,9 11	143	7.72	1103.4	3.96	4366.1	6.13	7.55	79	26,776.1	32,961.1	344,279			710% continuous
D-1,5,7 9,10,11,15	236	6.09	1437.4	3.87	5567.1	6.04	7.33	79	33,605.9	40,823.5	441,289			710% combined
D-8,14, 17	94	5.21	490	3.77	1849.4	3.12	3.87	42	5764.8	7152.1	77,216			6-8% comb.
D-2,3,4,6, 12,13,15,17	220	4.07	894.6	3.35	2994.3	1.96	2.59	32	5864.7	9656.4	96,443			4-6% comb.
Ⓚ D-8 <sup>(K)</sup>	26	8.31	216.0	3.8	820.8	3.32	3.84	42	2725.1	3151.9	34,474	Ⓚ		Ⓚ HW of D-9
Ⓨ D-8 <sup>(Y)</sup>	14	8.0	112.0	3.8	425.6	3.32	3.84	42	1413.0	1634.3	17,875	Ⓨ		Ⓨ HW of D-9
D-9 <sup>(K)</sup>	20	6.2	124.0	3.8	471.2	5.09	7.40	72	2398.4	3486.9	33,926	Ⓚ		
D-9 <sup>(Y)</sup>	16	7.1	113.6	3.8	431.7	5.09	7.40	72	2197.3	3194.4	31,081	Ⓨ		
F-1	11	3	33	3.5	115.5	4.07	3.44	50	470.1	397.3	5775	Γ		Pb > Zn
G-1 <sup>(Y)</sup>	40	7.6	304	4	1216	11.09	9.66	139	13,485	11,746.6	169,024	Ⓨ		Pb > Zn, high Zn minor Mag.
H-1	21	3	63	4	252	3.1	2.72	41	791.2	685.4	10,332	1		Pb > Zn
<u>TOTAL KERR ADDISON AND VANGUARD MINERAL RESERVES</u>														
712%	383	7.30	2794.6	3.90	10,912.5	6.78	9.21	93	74,012.7	100,463.5	1,015,219	5.99		
10-12%	205	4.0	811.2	3.57	3163.8	4.64	6.09	60	14,696.5	19,306.1	191,287	10.70		
715%	588	6.15	3,613.8	3.90	14,081.3	6.30	8.51	86	88,709.2	119,769.6	1,206,506	14.81		
8-10%	42	3.14	132.0	3.00	396	3.39	5.17	51	1,340.6	2,145.5	20,688	8.56		
78%	630	5.95	3,745.8	3.86	14,477.3	6.22	8.41	85	90,049.8	121,815.1	1,226,594	14.63		
Ⓚ 6-8%	87	5.77	501.9	3.52	1,738.1	3.20	3.96	40	5,656.3	6,531.3	70,667	7.06		Ⓚ Adjoining H.W. or F.W. to higher grade
Ⓨ 6-8%	54	3.0	162.0	3.72	603.	2.70	3.92	41	1626.7	2,365.9	24,567	6.62		* Non-adj. and for separate zones
total 6-8%	141	4.71	663.9	3.57	2371.1	3.07	3.88	40	7283.0	9,197.2	95,476	6.95		T = Total of 6-8% incl.
Ⓚ 76%	630	6.74	4247.7	3.82	16,245.4	5.89	7.92	80	95,706.1	128,646.4	1,297,203	13.81		Ⓚ 76%, plus adj. 6-8% H.W./F.W.
T 76%	684	6.45	4409.7	3.82	16,848.4	5.78	7.78	78	97,332.8	131,012.3	1,322,070	13.56		T = Total 76% incl.
Ⓚ 4-6%	121	7.43	899.0	3.13	2814.0	1.94	3.06	35	5,452.5	8,619.3	97,338	6.00		Ⓚ Adj. H.W./F.W. of higher grade.
* 4-6	225	3.79	852.6	3.56	3039.3	2.09	3.01	32	6,353.0	9,159.6	96,740	5.10		* 161 adj. H.W./F.W. higher grade
T 4-6 (367)	(4.94)	(4.94)	1814.6	3.23	5853.3	2.02	3.04	33	11,805.5	17,778.9	194,078	5.86		T = Total of 4-6% incl.
Ⓚ 74%	684	(7.76)	5308.7	3.70	19,662.4	5.23	7.10	72	102,785.3	139,631.6	1,419,408	12.33		Ⓚ 74%, plus adj. 4-6% H.W./F.W.
T 74	930	6.69	6224.3	3.65	22,701.7	4.81	6.55	67	109,138.3	148,791.2	1,516,148	11.36		* Total 74% incl.

# MINERAL RESERVE SUMMARY

## SECTION 66<sup>W</sup>

### GRUM DEPOSIT

DATE: Mar. 11/77

CALCULATION BY: J. [Signature]

REVISED:

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph. %	REMARKS
						Pb %	Zn %	Ag gm/m <sup>3</sup>	Pb % m.t.	Zn % m.t.	Ag gm m.t.			
<b>TOTAL KEK R ADDISON MINERAL RESERVES:</b>														
712% <sup>Pb+Zn</sup>	243	6.68	1623.2	3.93	6384.6	6.06	9.90	87	38,687.4	63,181.8	555,976	15.80		
10-12	205	4.0	919.2	3.87	3169.8	4.64	6.09	60	14,696.5	19,306.1	191,287	10.70		
> 10	448	5.45	2442.4	3.91	9553.4	5.59	8.63	78	53,333.9	82,487.9	747,263	12.22		
8-10	42	3.14	132.0	3.00	396	3.39	5.17	51	1,543.6	2,045.5	20,088	8.56		
7 8	490	5.25	2574.7	3.86	9949.4	5.50	8.50	77	54,724.5	84,533.2	767,351	12.00		
⊕ 6-8	73	5.34	389.9	3.44	1342.5	3.16	3.87	39	4,243.3	5,197.0	52,734	7.03	⊕ Adj. HW/FW of higher grade	
* 6-8	54	3.0	162.0	3.72	603	2.70	3.92	41	1,626.7	2,365.9	24,867	6.62	* Not adj. HW/FW of higher grade	
T 6-8	(127)	(4.35)	551.9	3.53	1945.5	3.02	3.89	40	5,870.0	7,562.9	77,601	6.91	T = Total 6-8% incl.	
⊕ > 6	490	6.05	2964.3	3.81	11,292.4	5.22	7.95	73	58,967.9	89,730.4	820,085	12.17	⊕ 7 8%, plus 6-8% HW/FW	
T > 6	544	5.75	3,126.3	3.81	11,874.9	5.09	7.74	71	60,594.5	92,096.3	847,952	12.83	T = Total of 7 8%	
⊕ 4-6	65	8.66	563	3.65	1,734.0	1.79	3.08	35	3,099.8	5,336.1	60,620	4.87		
* 4-6	201	3.45	694.2	3.42	2,375.1	2.25	3.00	34	5,333.8	7,114.8	80,500	5.25		
T 4-6	(266)	(4.73)	1,257.2	3.27	4,109.1	2.05	3.03	34	8,432.6	12,450.9	141,490	5.08		
8 7 4	544	6.78	3,659.3	3.69	13,628.9	4.67	7.15	66	63,693.3	97,432.4	905,642	11.82		
T 7 4	745	5.85	4,383.5	3.65	16,004.0	4.31	6.53	62	69,027.1	104,547.2	956,442	10.84		
<b>TOTAL VAN SOEDEN MINERAL RESERVES:</b>														
712% <sup>Pb+Zn</sup>	140	8.37	1171.4	3.87	4527.9	7.80	8.23	101	35,325.3	37,281.7	459,243	16.03		
10-12	/	/	/	/	/	/	/	/	/	/	/	/	/	/
> 10	/	/	As > 12%	/	/	/	/	/	/	/	/	/	/	/
8-10	/	/	/	/	/	/	/	/	/	/	/	/	/	/
> 8	/	/	As > 12%	/	/	/	/	/	/	/	/	/	/	/
⊕ 6-8	14	8.0	112	3.8	425.6	3.32	3.84	42	1413.0	1634.3	17,875	7.16		
* 6-8	/	/	/	/	/	/	/	/	/	/	/	/	/	/
T 6-8	14	8.0	112	3.8	425.6	3.32	3.84	42	1413.0	1634.3	17,875	7.16		
⊕ > 6	140	9.17	1,283.4	3.86	4953.5	7.42	7.36	96	36,733.3	38,916.0	477,118	15.28		
T > 6	/	/	As above	/	/	/	/	/	/	/	/	/	/	/
⊕ 4-6	56	6.0	336	3.21	1,080	2.18	3.04	34	2,553.7	3,283.2	36,643	5.22		
* 4-6	15	4.92	221.4	3.0	664.2	1.53	3.08	24	1,119.2	2,044.8	15,940	4.61		
T 4-6	(101)	(5.52)	557.4	3.13	1,744.2	1.93	3.05	30	3,372.9	5,328.0	52,588	4.98		
⊕ 7 4	140	(11.57)	1619.4	3.73	6,033.5	6.48	6.99	85	39,092.0	42,199.2	513,766	13.47		
T 7 4	185	9.95	1540.8	3.64	6,697.7	5.99	6.61	79	40,111.2	44,244.0	529,706	12.60		

# MINERAL RESERVE SUMMARY

## SECTION 68 W.

### GRUM DEPOSIT

DATE: Feb. 23/77  
CALCULATION BY: F. Chow  
REVISED:

ZONE SEGMENT	DIP Length	Thick-ness	AREA m <sup>2</sup>	S.G.	TONNE / m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph. %	REMARKS	
						Pb %	Zn %	Ag gm/m <sup>2</sup>	Pb % m.t.	Zn % m.t.	Ag gm m.t.				
A-1	32	13.6	710 595.2	4	2380 2380.8	4.10	7.06	54	1180.8 9761.3	20333 16,503.5	155,520 128,563				
A-2	27	7.4	129.8	4	799.2	8.19	16.19	116	6545.5	12,939.1	92,707				720 m <sup>2</sup> Kugly or porous
A-3	33	3.6	136.8	3	410.4	2.17	3.80	28	890.6	1559.5	11,491				⊙ F.W. of A-2 some breccia
A-4	24	3	72	3	216.0	2.20	3.59	37	475.2	849.2	7,992				Some breccia
A-5	20	1.2	24	3	72.0	2.85	4.86	40	205.2	349.9	2,880				⊙ H.W. of A-6
A-6	23	5	115	4	460	4.05	9.20	70	1863.0	4232.0	32,300				High Fe
A-7	11	4.8	52.8	4	211.2	8.95	19.44	157	1890.2	4105.7	33,153				High Fe, part porous
A-8	26	7.7	200.2	4	800.8	9.23	17.51	120	6598.6	14,022.0	96,096				* F.W. of A-6, not adj. High Fe, sls.
A-9	26	9.6	249.6	4	998.4	6.42	13.13	97	7190 6409.7	14,706 13,159	108,640 86,845				Part porous, some breccia 280
A-10	26	6.6	171.6	3	514.8	4.67	6.09	67	2404.1	3,135.1	34,492				
A-11	39	2	78	3	234	3.11	4.74	36	727.7	1,109.2	8,424				⊙ F.W. of A-9, 10
A-12	17	4.2	71.4	3	214.2	1.55	3.58	34	332.0	766.8	7283				⊙ F.W. of A-1
A-12	59	13.41	795	4	3180	5.13	9.35	70	16,306.8	29,747.6	221,270				
A-6, 7, 8, 9, 10	112	7.05	789.2	3.78	2985.2	6.42	11.99	98	19,157.6	35,803.8	292,791				
A-1	24	4.5	115.2	4	460.8	8.40	15.76	131	3870.7	7262.2	60,365				designated for Blackwell Program rich Fe
A-2	31	3.9	120.9	4	483.6	5.30	8.99	80	2583.1	4347.6	38,688				some Fe ?
A-3	26	5.2	135.2	4	540.8	5.64	9.22	94	3050.1	4986.2	50,835				rich Fe
A-4	34	4.5	153	4	612	5.32	8.89	96	3255.8	5440.7	58,752				High Fe, some breccia
A-5	21	1.5	31.5	3	94.5	2.94	4.76	44	2778	449.8	4,158				⊙ F.W. of A-1
A-6	8	4.9	39.2	3	117.6	2.11	3.42	47	248.1	432.2	5,527				
A-1, 2, 3, 4	115	4.56	524.3	4	2097.2	6.07	10.51	99	12,739.7	22,036.7	208,640				
B-1	39	3	117	3.5	409.5	2.40	2.24	44	982.8	917.3	13,013				High Fe
B-2	42	4.7	197.4	3.5	690.9	1.90	3.17	31	1312.7	2190.2	21,418				
B-3	19	9.6	134.4	3	403.2	1.72	3.94	25	673.5	1589.6	10,080				⊙ F.W. of B-1 High Fe, some breccia
B-4	39	3.7	144.3	4	577.2	1.79	2.48	30	1033.2	1431.5	17,316				* F.W. of B-1, non-adj. some Fe, part breccia
B-5	33	4.2	138.6	3.5	485.1	2.22	4.10	26	1076.9	1938.9	12,813				
B-6	32	3.2	102.4	3	307.2	3.39	5.91	50	949.3	1215.6	15,360				
B-7	25	3	75	3	225	3.45	5.50	41	776.3	1237.5	9225				
B-8	22	3	66	3	198	2.77	4.40	40	548.5	871.2	7920				
B-1, 2, 3, 4	134	4.43	593.1	3.51	2080.8	1.93	2.94	32	4022.2	6127.6	66,832				
B-5, 6, 7, 8	112	3.41	382	3.18	1215.3	2.76	4.87	37	3351.0	5713.2	45,118				

# MINERAL RESERVE SUMMARY

## SECTION 68 W

### GRUM DEPOSIT

DATE: Feb. 23/47  
CALCULATION BY: J. L. ...

REVISED: ...

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph %	REMARKS
						Pb %	Zn %	Ag gm/m.t.	Pb% m.t.	Zn% m.t.	Ag gm/m.t.			
D-1 <sup>(V)</sup>	30	4.6	138	4	552	3.11	4.20	53	1716.7	2318.4	29,256	(V)		High Pb
D-2 <sup>(K+V)</sup>	36	5.5	198	4	792	6.41	8.10	95	5076.7	6415.2	75,240	(K+V)		Rich Ba, high Pb
* D-3 <sup>(K+V)</sup>	39	3	117	3	351	3.02	4.0	41	1060.0	1404.0	14,391	(K+V)		* F.W. of D-2, non adjoining. High Pb
D-4	31	6.1	189.1	4	756.4	6.06	6.69	77	4583.8	5060.3	53,243	(V)		Rich Ba range. Pb
D-5	30	0.8	16	4	64	3.55	1.90	4.3	227.2	121.6	2752	(V)		① F.W. of D-4. Pb Zn
* D-6	50	3	90	3	270	3.31	4.25	4.9	1028.7	1147.5	13,230	(V)		* below D-5, non
D-7	27	5.2	140.4	4	561.6	3.06	3.93	4.4	1719.5	2207.1	24,710	(V)		High Pb, rich Pb
D-8	26	4.6	119.6	4	478.4	4.10	5.24	56	1961.4	2506.8	26,790	(V)		① H.W. of D-8. Rich Ba range. High Pb
D-9	34	0.9	30.6	4	122.4	3.33	2.85	37	407.6	348.8	4,529	(V)		① F.W. of D-10. Ba range. Pb Zn
D-10	34	3.3	112.2	4	448.8	7.74	8.42	86	3473.7	3778.9	38,597	(V)		Rich Ba, minor Pb Zn
D-11	35	2.8	98	3	294	3.84	3.09	4.1	1129	908.5	12,054	(V)		① F.W. of D-10 Pb Zn
* D-12	36	3.6	129.6	4	518.4	8.13	5.94	93	4214 1253.7	3079 769.8	48,211 12,063	(V)		* Below D-11, non Pb Zn Rich Ba
D-13	60	2.2	132	3	336	1.88	3.84	3.4	744.5	1520.6	13,464	(V)		① H.W. of D-14 High Zn
D-14	59	3.2	189.8	3.5	660.8	3.73	6.53	66	2464.8	4315.0	43,613	(V)		Rich Ba OVERLAP (NO)
* D-15	58	3	174	4	696	3.42	2.11	36	2380.3	1468.6	25,056	(V)		* Below D-14, non Pb Zn, Precious
* D-16	57	3.1	171	3.5	598.5	1.78	2.48	27	1065.3	1484.3	16,160	(V)		* F.W. of D-15, non-adj. of Pb
D-17	36	4	144	3.5	504	2.9	3.49	4.1	1461.6	1759	20,664	(V)		
* D-18	32	3.3	105.6	4	422.4	2.51	2.50	4.1	1060.2	1056	17,318	(V)		* F.W. of D-17, non adj
D-19	14	5.8	81.2	4	324.8	2.9	3.49	4.1	941.9	1133.6	13,317	(V)		High Pb
D-20	16	3.1	49.6	4	198.4	2.51	2.50	4.1	498	496	8,134	(V)		① F.W. of D-19 Pb Zn, High Pb
D-21	24	5.6	134.4	4	537.6	4.17	3.23	4.3	2241.8	1736.5	23,117	(V)		Pb Zn, rich Ba range
D-22	24	3.2	76.8	4	307.2	2.74	2.07	3.8	841.7	635.9	11,674	(V)		① F.W. of D-21 w/ mag.
D-2, 7	67	5.78	387.1	4	1548.4	6.24	7.41	86	9660.5	11,775.5	133,493			
D-10, 14	73	3.24	301	3.89	1109.6	5.35	7.29	74	5938.5	8593.9	82,210			
D-1, 3	69	3.7	255	3.54	903	3.07	4.12	48	2776.7	3722.4	43,647			
D-6, 8	56	3.74	209.6	3.57	748.4	4.00	4.88	53	2990.1	3654.3	40,020			
G-1	26	3	78	4	312	7.19	6.65	103	2243.3	2074.8	32,136	(V)		High Ba? Pb Zn
G-2	35	3	105	3.5	367.5	5.49	6.16	69	2017.6	2263.8	25,358	(V)		w/ Bi + Pb, High Pb
G-3	30	3	90	3.5	315	4.99	6.52	68	1571.9	2053.8	21,420	(V)		High Pb
G-4	25	3	75	3	225	2.53	3.85	38	569.3	866.3	8550	(V)		
G-5	30	4.3	129	4	516	12.95	9.74	171	6682.2	5025.8	88,236	(V)		Rich Ba, Pb Zn
G-6	26	4.2	109.2	4	436.8	3.37	6.71	51	1472	2930.9	22,277	(V)		High Ba, High Pb
G-7	13	3	39	+	156	5.16	7.83	66	805	1239.3	10,296	(V)		High Ba, w/ mag, also precious
G-8 <sup>(K+V)</sup>	21	3	63	3	189	3.49	2.34	36	470.6	442.3	6,804	(K+V)		Pb Zn
G-1, 2, 3	91	3	273	3.64	994.5	5.87	6.43	79	5832.8	6392.4	78,914			
G-5, 6	56	4.25	238.2	4	952.8	8.56	8.35	116	8154.2	7956.7	110,513			
H-1	30	4.7	141	4	564	3.48	2.09	46	1962.7	1178.8	25,944	(V)		w/ Ba + mag, breccia Pb Zn ① H.W. as above
H-2	23	5	115	4	460	5.10	4.18	63	2346	1922.8	28,980	(V)		
H-3	32	6.7	214.4	4	857.6	7.37	6.96	100	6749.3	5968.9	85,760	(V)		Rich Ba, breccia Pb Zn
H-4	21	4.3	90.3	4	361.2	8.49	10.27	120	3066.6	3709.5	43,344	(V)		Precious High Pb
H-5	35	4.1	143.5	4	574	5.03	7.20	92	2887.2	2410.8	52,808	(V)		some breccia Pb Zn
H-6	36	2	72	3	216	3.71	3.96	53	801.4	855.4	11,448	(V)		① F.W. of H-5 Pb Zn, breccia
H-7	30	3.3	99	4	396	3.57	4.66	47	1413.7	1845.4	18,612	(V)		Breccia, precious, High Pb
H-3, 4	53	5.75	304.7	4	1218.8	8.55	7.94	106	9815.9	9678.4	129,104			

# MINERAL RESERVE SUMMARY

## SECTION 68<sup>W</sup>

GRUM DEPOSIT

DATE :  
CALCULATION BY:  
REVISED:

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph. %	REMARKS
						Pb %	Zn %	Ag gm/ml	Pb% m.t.	Zn% m.t.	Ag gm m.t.			
<i>PORTION OF SEGMENTS DIVIDED INTO KERR/VANGANDA RESERVES:</i> (Segments listed "in whole" on page 2 of 5)														
D-2 <sup>K</sup>	10	6.3	63	4	252	6.41	8.10	95	1615.3	2041.2	23,990	(K)		
D-2 <sup>V</sup>	26	5.2	135	4	540	6.41	8.10	95	3,461.4	4,374.0	51,350	(V)		
D-3 <sup>K</sup>	10	3	30	3	90	3.02	4.0	41	271.8	360.0	3,690	(K)		
D-3 <sup>V</sup>	29	3	87	3	261	3.02	4.0	41	789.2	1,044.0	10,701	(V)		
G-8 <sup>K</sup>	16	3	48	3	144	2.49	2.34	36	358.6	337.0	5,184	(K)		
G-8 <sup>V</sup>	5	3	15	3	45	2.49	2.34	36	112.0	105.3	1,620	(V)		

# MINERAL RESERVE SUMMARY

## SECTION 68 W

DATE: Feb. 23/77

CALCULATION BY: J. Chen

TOTAL KERR AND VANCOUVER RESERVES GRUM DEPOSIT

REVISED:

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph. %	REMARKS
						Pb %	Zn %	Ag gm/m <sup>3</sup>	Pb % m.t.	Zn % m.t.	Ag gm m.t.			
> 12%	487	5.18	2521.3	4	10,085.2	6.92	10.08	100	69,773.0	101,677.0	1,003,551	17.00		
10-12%	209	6.06	1259.9	3.71	4,675.7	4.21	6.74	102	19,691.7	31,507.1	476,223	10.95		
> 10%	695	5.44	3781.1	3.89	14,760.9	6.06	9.02	100	89,464.7	133,184.1	1,479,774	15.08		
8-10%	210	3.55	744.5	3.60	2,633.6	4.23	4.80	61	11,362.6	12,836.4	165,005	9.03		
> 8%	905	5.00	4525.6	3.85	17,444.5	5.78	8.37	94	100,827.3	146,070.5	1,644,779	14.15		
⊗ 6-8%	(212)	(2.24)	474.5	3.36	1,594.5	3.30	3.91	43	5,267.2	6,228.7	68,203	7.21		⊗ H.W. or F.W. adj. higher grade
* 6-8%	247	3.91	966.2	3.51	3,393.5	2.97	3.81	41	10,091.9	12,918.1	137,820	6.78		* Non-adj. H.W. or separate zone
TOTAL 6-8%			1440.7	3.46	4,988.0	3.08	3.84	41	15,359.1	19,146.8	206,023	6.92		
⊗ 76%	905	5.52	5,000.1	3.81	19,039.0	5.57	8.00	90	106,094.5	152,299.2	1,712,982	13.57		⊗ TOTAL 76% exclud. non-adj. 6-8% zone
TOTAL 76%	1152	5.18	5,966.3	3.76	22,432.5	5.18	7.37	83	116,186.4	165,217.3	1,850,802	12.55		
⊗ 4-6%	175	2.76	482.6	3.3	1,590.2	1.67	3.21	34	2,649.4	5,100.4	54,798	4.88		⊗ H.W. or F.W. adj. higher grade
* 4-6%	340	3.79	1,236.9	3.63	4,668.3	2.40	2.60	35	11,209.4	12,159.8	163,641	5.00		* Non-adj. H.W. or separate zone
TOTAL 4-6%	515	3.44	1,769.5	3.54	6,258.5	2.21	2.76	35	13,858.8	17,260.2	218,439	4.97		
⊗ > 4%	1152	5.60	6,443.9	3.73	24,022.7	4.95	7.09	79	118,835.9	170,317.7	1,935,600	12.04		
T > 4%	1492	5.18	7,735.8	3.71	28,691.0	4.53	6.36	72	135,045.2	192,477.5	2,069,241	10.89		

# MINERAL RESERVE SUMMARY

## SECTION \* 68<sup>w</sup>

### GRUM DEPOSIT

DATE: *March 20/77*

CALCULATION BY: *SL*

REVISED:

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph %	REMARKS
						Pb %	Zn %	Ag g <sup>m</sup> /m <sup>3</sup>	Pb % m.t.	Zn % m.t.	Ag g <sup>m</sup> m.t.			
<u>TOTAL KERR ADDISON MINERAL RESERVES :</u>														
7 12 <sup>% PbZn</sup>	461	5.18	2386.3	4	9545.2	6.95	10.19	100	66,311.6	97,303.0	952,251			
10-12	208	6.06	1259.8	3.71	4675.7	4.21	6.74	102	19,691.7	31,507.1	476,223	9.05		
7 10	669	5.45	3646.1		14,220.9	6.05	9.06		86,003.3	128,810.1	1,428,474	15.11		
⊗ 8-10			NIL		NIL									
* 8-10	210	3.55	744.5	3.60	2,683.6	4.23	4.80	61	11,362.6	12,896.4	165,005	9.03		
7 8-10					As above									
⊗ 7 8														
7 7 8	879	4.99	4,393.6	3.55	16,904.5	5.76	8.38	94	97,365.9	141,696.5	1,593,479			
⊗ 6-8	(212)	(2.24)	474.5	3.36	1,594.5	3.30	3.91	43	5,267.2	6,228.7	68,203	7.21		
* 6-8	158	3.94	741.2	3.48	2,550.5	2.94	3.81	38	7,587.0	9,555.7	97,863			
7 6-8	(400)	(3.04)	1215.7	3.43	4,175.0	3.08	3.78	40	12,854.2	15,784.4	166,066			
⊗ 7 6	879	5.53	4865.1	3.80	18,499.0	5.55	8.00	90	132,633.1	147,925.2	1,661,682			
7 7 6	1067	5.25	5606.3	3.76	21,079.5	5.23	7.47	83	110,220.1	157,480.9	1,759,545			
⊗ 4-6	(175)	(2.76)	492.6	3.3	1,509.2	1.67	3.21	34	2,649.4	5,100.4	54,798	4.88		
* 4-6	335	3.80	1271.9	3.63	4,623.3	2.40	2.61	35	11,097.4	12,054.5	162,021			
7 4-6	(510)	(3.44)	1754.5	3.50	6,132.5	2.24	2.80	35	13,746.8	17,154.9	216,819			
⊗ 7 4	1067	5.71	6083.9	3.71	22,528.7	5.00	7.20	90	112,869.5	162,581.3	1,814,343			
7 7 4	1402	5.25	1360.8	3.70	27,212.0	4.56	6.42	73	123,966.9	174,635.8	1,976,364			
<u>TOTAL VANGORDA MINES' MINERAL RESERVES :</u>														
7 12 <sup>% PbZn</sup>	26	5.2	135.0	4	540	6.41	8.10	95	3,461.4	4,374.0	51,300	14.51		
10-12					NIL									
7 10					As 7 12 %									
⊗ 8-10					NIL									
* 8-10					NIL									
7 8-10					NIL									
⊗ 7 8					NIL									
7 7 8					As 7 12 %									
⊗ 6-8					NIL									
* 6-8	59	3.81	225.0	3.61	813.0	3.08	4.14	49	2554.9	3362.4	39,957			
7 6-8					As above									
⊗ 7 6														
7 7 6	85	4.24	360.0	3.76	1353	4.41	5.72	67	5966.3	7736.4	91,257			
⊗ 4-6					NIL									
* 4-6	5	3	15	3	45	2.49	2.34	36	112.0	105.3	1620			
7 4-6					As above									
⊗ 7 4														
7 7 4	90	4.17	375.0	3.73	1398	4.35	5.61	66	6078.3	7841.7	92,877			



# MINERAL RESERVE SUMMARY

## SECTION 70 W

### GRUM DEPOSIT

DATE: Feb. 28/77  
 CALCULATION BY: J. L. ...  
 REVISED: ...

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph. %	REMARKS	
						Pb %	Zn %	Ag gm/m.	Pb % m.t.	Zn % m.t.	Ag gm m.t.				
D-10	43	5.5	236.5	4	946	4.53	3.51	53	4,285.4	3,320.5	50,138	✓		Pb > Zn	
D-11	34	3.8	129.2	4	516.8	4.57	5.99	70	2,361.8	3,095.6	36,176	✓		High Pb (ratio) minor brecc.	
G-1	41	4.3	176.3	4	705.2	6.47	6.85	95	4,562.6	4,830.6	66,994	✓		Pb ≈ Zn	
G-2	26	3.5	91	3.5	318.5	5.18	5.16	73	1,649.8	1,643.5	23,251	✓		Pb = Zn	
H-1	7	3	21	3	63	4.10	3.25	55	258.3	204.8	3,465	✓		Pb > Zn	
H-2	10	3	30	3	90	3.87	3.53	57	348.3	317.7	5,130	✓		Pb > Zn	
H-3	12	4.9	58.8	4	235.2	9.09	6.32	107	2,138.0	1,486.5	25,166	✓		Pb > Zn	
H-4	19	12.4	235.6	4	942.4	4.80	4.17	68	4,523.5	3,929.8	64,083	✓		Pb > Zn, port brecc, Ba, ...	
H-5	40	1.3	52	4	208	4.45	3.75	60	925.6	780.0	12,480	✓		H.W. of H-6, Pb > Zn, 4/32	
H-6	40	7.5	300	4	1200	6.8	6.92	100	8,160.0	8,304.0	120,000	✓		Pb ≈ Zn	
H-7	39	1.9	74.1	4	296.4	3.95	2.45	71	1,170.8	726.2	21,044	✓		F.W. of H-6, Pb > Zn, Rich Ba, 4/32	
H-8	40	1.3	52	4	208	2.55	1.90	52	530.4	325.2	10,816	✓		F.W. of H-7, porous High Ba, Pb > Zn	
H-9	37	3.5	129.5	3.5	453.3	2.25	1.82	32	1,019.8	824.9	14,504	✓		Pb > Zn, * above H-10, non-adj	
H-10	40	4.7	188	4	752	3.29	2.91	44	2,474.1	2,188.3	33,088	✓		Pb > Zn, Some brecc.	
H-11	12	3.5	42	4	168	5.55	5.43	74	932.4	912.2	12,432	✓		Rich Ba, Pb > Zn	
<u>TOTAL MINERAL RESERVES - all Rich Admix.</u>															
7-12%	455	5.79	4265.1	4	17,060.7	6.40	11.01	91	109,174.1	187,827.2	1,558,370	17.41			
12-12%	170	6.31	1072.4	3.91	4,194.6	5.06	5.77	64	21,235.4	24,191.6	269,568	10.83			
7-10%	655	8.15	5337.5	3.98	21,255.0	6.14	9.98	86	130,409.5	212,018.8	1,827,938	16.12			
3-10%	40	1.3	52	4	208.0	4.45	3.75	60	925.6	780.0	12,480	8.20			H.W. adj. higher grade
8-10%	224	5.47	1,225.7	3.85	4,467.8	3.94	4.81	53	17,664.4	21,493.7	236,540	8.75			* Separate zones or non-adj. higher grade
8-10%	264	4.84	1,277.7	3.66	4,675.8	3.96	4.76	53	18,530.0	22,273.7	249,020	8.76			
7-8%	695	7.75	5,389.5	3.98	21,113.0	6.12	9.91	86	131,335.1	212,799.3	1,870,418	16.03			7-10% incl. adj. 8-10 H.W. or F.W.
7-8%	919	7.20	6,615.2	3.92	25,930.8	5.74	9.04	80	148,939.5	234,292.5	2,076,958	14.78			
6-8%	140	7.70	1,078.6	3.1	3,341.9	2.74	4.17	41	9,152.4	13,947.3	138,132	6.91			H.W. or F.W. adj. higher grade
6-8%	133	5.25	699.0	3.53	2,460.5	2.57	3.95	38	6,313.8	9,728.2	93,115	4.52			* Separate zones or non-adj. higher grade
TOTAL 6-8%	273	6.51	1,776.6	3.27	5,802.4	2.67	4.08	40	15,466.2	23,675.5	231,247	6.75			
7-6%	1059	7.27	7,693.8	3.80	29,272.7	5.40	8.48	76	158,091.9	248,239.8	2,215,090	13.28			7-8% incl. adj. 6-8 H.W. or F.W.
TOTAL 7-6%	1192	7.04	8,391.8	3.78	31,733.2	5.18	8.13	73	164,405.7	257,968.0	2,308,205	13.31			
4-6%	174	5.61	976.6	3.12	3,044.8	2.10	3.11	32	6,384.7	9,475.3	95,918	5.21			H.W. or F.W. adj. higher grade
4-6%	122	5.04	614.5	3.11	1,933.3	2.13	3.03	28	4,063.3	5,786.7	53,891	5.16			* Separate zones or non-adj. higher grade
TOTAL 4-6%	296	5.39	1,591.1	3.11	4,953.1	2.11	3.08	30	10,448.0	15,262.0	149,809	5.19			
7-4%	1366	6.86	9,368.4	3.71	34,778.0	4.91	7.69	69	170,790.4	267,443.3	2,404,123	12.60			7-6% incl. 4-6 H.W. or F.W.
TOTAL 7-4%	1488	6.71	9,982.9	3.67	36,686.3	4.77	7.45	67	174,853.7	273,230.0	2,458,014	12.22			

# MINERAL RESERVE SUMMARY

## SECTION 72<sup>w</sup>

### GRUM DEPOSIT

DATE: Nov. 15/37

CALCULATION BY: J.L.B.

REVISED:

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph. %	REMARKS
						Pb %	Zn %	Ag gm/m <sup>3</sup>	Pb % m.t.	Zn % m.t.	Ag gm m.t.			
A-1	29	5.7	165.3	3	495.9	2.19	4.03	32	1086	1998	15,868	Γ		
A-2	40	3.7	148.0	3.5	518.0	5.96	9.51	68	3087	4926	35,224	☑		
Ⓢ A-3	46	6	276.0	3	828.0	2.17	3.94	28	1797	3190	23,184	Γ	Ⓢ FW of A-2	
A-4	20	4.1	82.0	3.5	287.0	4.88	8.27	73	1343	2373	20,951	☑		
Ⓢ A-5	25	0.7	17.5	3	52.5	2.50	4.10	44	131	215	2,310	Γ	Ⓢ FW of A-4	
Ⓢ A-6	22	2.1	46.2	3	138.6	1.55	3.40	22	215	471	3,049	I	Ⓢ HW of A-7,8	
A-7	11	5.8	63.8	3	191.4	3.70	9.00	57	708	1531	10,910	□		
A-8	11	3.5	38.5	3	115.5	3.70	6.43	53	427	743	6,122	□		
A-9	16	8.7	139.2	4	556.8	4.94	9.35	76	2751	5206	42,317	☑		
Ⓢ A-10	17	3.3	56.1	3	168.3	3.99	1.47	43	672	247	7,237	I	Ⓢ FW of A-9	
A-11	15	8.4	126.0	3	378.0	4.00	7.69	56	1512	2907	21,168	□		
A-12	14	3	42.0	3	126.0	2.34	2.47	31	295	311	3,906	I	Below A-11, not adj.	
A-13	18	8.6	154.8	3.5	541.8	8.2	15.29	131	4443	8284	70,976	☑		
A-14	18	7.4	133.2	3.5	466.2	7.55	11.66	106	3520	5436	49,417	☑		
Ⓢ A-15	27	8.7	234.9	3	704.7	2.45	4.27	35	1727	3009	24,665	Γ	Ⓢ FW of A-13,14	
A-16	17	12	204.0	3.5	714.0	4.00	6.12	63	2856	4370	44,982	□		
A-17	20	12	240.0	4	960.0	5.86	8.52	89	5626	8179	85,440	☑		
A-18	20	9.5	190.0	4	760.0	5.73	8.51	87	4355	6468	66,120	☑		
A-19	20	15.8	316.0	4	1264.0	4.60	8.18	72	5814	10,340	91,008	☑		
A-20	20	8.3	166.0	4	664.0	3.51	6.99	55	2331	4641	36,520	□		
Ⓢ A-21	17	2.4	40.8	3	122.4	2.90	3.93	33	355	481	4,039	Γ	Ⓢ FW of A-16	
Ⓢ A-22	38	0.8	30.4	3	91.2	3.24	3.19	49	295	291	4,469	Γ	Ⓢ HW of A-19,20	
A-23	16	13.2	211.2	4	844.8	3.85	6.55	65	3252	5533	54,912	□		
A-24	29	8.4	243.6	4	974.4	4.93	8.56	80	4804	8341	77,952	☑		
Ⓢ A-25	20	2	40.0	4	160.0	3.18	5.70	59	509	912	9,440	□	Ⓢ HW of A-23,24	
Ⓢ A-26	12	3.1	37.2	4	148.8	2.54	3.13	49	378	466	7,291	I	Ⓢ FW of A-23,24	
Ⓢ A-27	27	3.5	94.5	3	283.5	2.57	3.55	44	729	1006	12,474	Γ	Ⓢ FW of A-23,24	
A-28	16	6.7	107.2	4	428.8	4.77	9.70	73	2045	4159	31,302	☑		
A-29	24	8.8	211.2	4	844.8	6.41	9.60	96	5415	8110	81,101	☑		
Ⓢ A-30	20	1.4	28.0	3	84.0	2.25	4.50	36	189	378	3,024	Γ	Ⓢ FW of A-29	
A-31	28	10.2	285.6	4	1142.4	5.65	9.76	86	6455	11,150	98,246	☑		
A-32	40	3	120.0	3	360.0	1.94	3.12	29	698	1,123	10,440	I		
Ⓢ A-33	38	7.4	281.2	3.5	984.2	2.39	4.31	44	2352	4,242	43,305	Γ	Ⓢ HW of	
A-34	32	4.1	131.2	4	524.8	6.32	8.99	95	3317	4,718	49,956	☑	155 m <sup>2</sup>	
A-35	8	14.5	116.0	3	348.0	5.67	6.14	83	1973	2,137	28,884	□		
Ⓢ A-36	25	4.1	102.5	3	307.5	4.01	3.15	61	1233	3,884	35,218	Γ	Ⓢ FW of A-34,35	
A-37	23	3.8	87.4	4	349.6	5.42	5.12	78	1825	1,790	27,269	□		
A-38	25	13.3	332.5	3.5	1,163.8	5.09	9.50	91	5923	11,056	94,264	☑		
A-39	10	14.6	146.0	3.5	511.0	3.79	6.88	66	1937	3,516	33,726	□	160.6	
A-40	15	3.3	49.5	3	148.5	4.00	7.55	67	594	1,121	9,950	□		
A-41	19	3.1	58.9	3	176.7	3.85	2.76	59	680	488	10,425	Γ		
A-42	26	3.1	80.6	4	322.4	1.66	4.38	29	535	1,412	9,350	Γ		
Ⓢ A-43	27	2.6	70.2	3	210.6	1.73	3.27	19	364	689	4,001	I	Ⓢ FW of A-38	
A-44	14	3	42.0	3	126.0	3.34	3.74	47	421	471	5,922	Γ		
A-45	25	3	75.0	3	225.0	2.95	4.63	41	664	1,042	9,225	Γ		
A-46	31	4.1	127.1	3.5	448.9	2.27	3.81	37	289	484	4,703	Γ		

# MINERAL RESERVE SUMMARY

SECTION 72 W

GRUM DEPOSIT

DATE: March 16/77

CALCULATION BY: J. L. ...

REVISED:

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph. %	REMARKS
						Pb %	Zn %	Ag gm/m.t.	Pb % m.t.	Zn % m.t.	Ag gm m.t.			
C-1	10	11	110.0	3	330.0	4.78	7.56	73	1577	2495	24,090	☑		
C-2	20	10.3	206.0	3	618.0	2.94	4.64	46	1817.0 606	956	9,476	☑		
⊗ C-3	26	3.4	89.4	3	265.2	1.52	2.98	30	488	790	7,956	1	⊗ HW of C-5-6	
⊗ C-4	26	4.1	106.6	3	319.8	1.92	3.86	29	614	1,234	9,274	1	⊗ HW of C-6-7	
C-5	17	4.5	76.5	3	229.5	5.49	9.47	80	1,260	2,173	18,360	☑		
C-6	35	12.3	430.5	3	1291.5	2.41	4.22	39	3,113	5,450	50,369	☑		
C-7	15	13	195.0	3	585.0	2.17	4.95	34	1,269	2996	19,890	☑		
⊗ C-8	56	6.8	380.8	3	1142.4	1.62	3.44	31	1851	3930	35,414	1	⊗ FW of C-5,6	
C-9	12	6.6	79.2	4	316.8	4.49	9.22	67	1422	2921	21,226	☑		
⊗ C-10	26	17	442.0	3	1326.0	1.73	2.89	31	2294	3832	41,106	1	⊗ HW of C-11	
⊗ C-11	42	3.7	155.4	3	466.2	2.94	5.74	42	1324	2676	19,580	☑	⊗ HW of C-12 190 m <sup>2</sup>	
C-12	34	9.5	323.0	3	969.0	3.78	7.59	62	3663	7355	60,078	☑		
⊗ C-13	26	4.3	111.8	3	335.4	1.77	3.05	32	594	1023	10,723	1	⊗ FW of C-11,12; HW of C-13	
C-14	22	5.1	112.2	3	336.6	4.16	2.21	51	1400	744	17,167	☑		
⊗ C-15	33	5.1	168.3	3	504.9	2.08	2.17	33	1050	1,096	16,662	1	⊗ FW of C-14 205 m <sup>2</sup>	
⊗ C-16	35	1.6	56.0	3	168.0	1.83	4.40	29	307	739	4,872	☑	⊗ HW of C-17	
C-17	25	6.6	165.0	3	495.0	5.00	8.23	51	2475	4420	40,095	☑		
C-18	34	11.4	387.6	3.5	1356.6	4.49	7.55	61	6091	10,242	82,753	☑		
C-19	23	4.2	96.6	4	386.4	6.74	12.21	116	2604	4,718	44,822	☑		
⊗ C-18 <sup>b</sup>	19	2.7	51.3	3	153.9	2.98	3.57	42	459	549	6,464	☑	⊗ HW of A-18	
H-1	17	3	51.0	4	204.0	6.29	4.44	81	1283	906	16,524	☑		
⊗ H-2	19	2.2	41.8	3	125.4	2.58	1.75	32	324	219	4,013	1	⊗ HW of H-3	
H-3	16	3.6	57.6	4	230.4	10.1	6.72	121	2,327	1,548	27,878	☑		
H-4	16	5.1	81.6	4	326.4	7.86	5.59	102	2,566	1,925	33,293	☑		
H-5	15	4.8	72.0	4	288.0	4.17	3.46	64	1,201	996	18,432	☑		
⊗ H-6	36	2.5	90.0	4	360.0	2.92	2.41	45	1,051	868	16,200	1	⊗ HW of H-7	
⊗ H-7	17	2.3	39.1	4	156.4	5.77	3.4	69	902	532	10,792	☑	⊗ HW of H-8	
H-8	17	4.5	76.5	4	306.0	8.76	9.26	116	2,681	2,834	35,496	☑		
H-9	32	4.9	156.8	4	627.2	6.99	6.63	97	4,394	4,158	60,838	☑		
H-10	28	6.2	173.6	4	694.4	4.64	5.72	84	3,232	4,014	58,330	☑		
⊗ H-11	16	1.3	20.8	3	62.4	2.79	2.40	45	174	150	2,808	1	⊗ FW of H-10, 9	
⊗ D-1	30	1.3	39.0	3	90.0	2.40	2.28	31	216	205	2,790	1	⊗ HW of D-2	
D-2	30	3	90.0	3.5	315.0	4.55	3.45	52	1,443	1,087	16,380	☑		

# MINERAL RESERVE SUMMARY

## SECTION 72<sup>W</sup>

### GRUM DEPOSIT

DATE: *March 16/77*

CALCULATION BY: *SL*

REVISED:

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph. %	REMARKS
						Pb %	Zn %	Ag g/m <sup>3</sup>	Pb % m.t.	Zn % m.t.	Ag g m. t.			
712 <sup>%</sup> Pb-Zn	528	7.58	4001.9	3.78	15,037.1	5.74	9.05	85	86,285	136,080	1,283,025	14.79		
10-12	225	7.80	1756.0	3.49	6,132.2	4.18	6.61	67	25,653	40,564	409,375	10.79		
7 10	753	7.65	5757.9	3.68	21,169.3	5.29	8.34	80	111,938	176,644	1,692,400	13.63		
⊗ 8-10	(79)	(2.97)	234.5	3.34	782.6	3.49	5.26	51	2,735	4,120	39,812	8.75	⊗ Adj. Hw/Fw of higher grade.	
* 8-10	30	3	90.0	3.5	315.0	4.55	3.15	52	1,443	1,087	16,380	8.00	* Not adj. Hw/Fw of higher grade.	
T 8-10			324.5	3.38	1097.6	3.81	4.74	51	4,178	5,207	56,192	8.55	T = total incl.	
⊗ 7 8	753	7.96	5992.4	3.66	21,951.9	5.22	8.23	79	114,673	180,764	1,732,212	13.45	⊗ 7 10% plus adj. 8-10% Hw/Fw.	
T 7 8	783	7.77	6082.4	3.66	22,266.9	5.21	8.17	79	116,116	181,851	1,748,592	13.38	T = Total of 7 8% incl.	
⊗ 6-8	(317)	(3.88)	1213.1	3.12	3,779.9	2.53	4.76	43	9,574	17,974	164,024	7.29	⊗ Adj. Hw/Fw of higher grade.	
* 6-8	251	6.23	1564.6	3.14	4,910.0	2.69	4.09	41	13,196	20,060	201,535	6.78	* Not adj. Hw/Fw of higher grade.	
T 6-8			2777.7	3.13	8,689.9	2.62	4.33	42	22,770	38,034	365,559	7.00	T = Total of 6-8% incl.	
⊗ 7 6	763	9.32	7295.5	3.57	26,046.8	4.83	7.67	73	125,690	199,825	1,912,616	12.50	⊗ 7 6% plus adj. 6-8% Hw/Fw.	
T 7 6	1034	8.57	8860.1	3.49	30,956.3	4.49	7.10	68	138,886	219,885	2,114,151	11.53	T = Total of 7 6% incl.	
⊗ 4-6	(3.72)	(4.57)	1699.2	3.06	5,197.8	1.99	2.93	32	10,285	15,220	168,534	4.81	⊗ Adj. Hw/Fw of higher grade.	
* 4-6	54	3.	162.0	3.0	456.0	2.04	2.95	30	993	1,437	14,346	4.99	* Not adj. Hw/Fw of higher grade.	
T 4-6			1,861.2	3.05	5,653.8	1.98	2.93	32	11,278	16,654	182,880	4.81	T = Total of 4-6% incl.	
⊗ 7 4	1034	10.21	10,559.3	3.42	36,154.6	4.13	6.50	63	149,171	235,105	2,282,685	10.83	⊗ 7 6% plus adj. 4-6% Hw/Fw.	
T 7 4	1038	9.85	10,721.3	3.42	36,640.6	4.10	6.46	63	150,164	236,539	2,297,031	10.5	T = Total of 7 4% incl.	

# MINERAL RESERVE SUMMARY

## SECTION 74<sup>W</sup>

### GRUM DEPOSIT

DATE: March 16/77

CALCULATION BY: *g.c.*

REVISED:

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph. %	REMARKS
						Pb %	Zn %	Ag gm/ml	Pb% m.t.	Zn% m.t.	Ag <sup>gm</sup> m.t.			
⊗ A-1	35	7.1	248.5	3	745.5	1.20	3.05	21	895	2274	15,656	1		⊗ HW of A-3,5
⊗ A-2	34	1.5	51.0	3	153.0	1.25	4.00	25	191	612	3,825	1		⊗ HW of A-7
⊗ A-3	24	7.2	172.8	3	518.4	1.60	3.16	27	829	1638	13,997	1		⊗ FW of A-1, also H.W. of A-4
A-4	32	3	96.0	3	288.0	1.98	4.67	34	570	1345	9,792	1		
A-5	25	3.3	82.5	3	247.5	1.88	4.44	31	465	1097	7,673	1		
⊗ A-6	28	4	112.0	3	336.0	1.22	2.9	20	410	974	6,720	1		⊗ FW of A-5
A-7	44	3.5	154.0	3	462.0	3.73	8.33	80	1723	3848	36,960	1		
⊗ A-8	44	3.6	158.4	3	475.2	2.11	3.62	41	1003	1720	19,483	1		⊗ FW of A-7
A-9	26	3	78.0	3.5	273.0	3.7	6.49	49	1010	1772	13,377	1		
⊗ A-10	26	3	78.0	3	234.0	1.38	2.73	19	323	639	4,446	1		⊗ FW of A-9
A-11	57	3.4	193.8	3.5	678.3	3.71	6.34	59	2516	4300	40,020	1		
⊗ A-12	37	5.2	192.4	3	577.2	1.94	2.99	26	1120	1726	15,007	1		⊗ FW of A-11
A-13	31	3.7	114.7	3	344.1	2.73	5.56	45	939	1913	15,485	1		Part FW of A-12
A-14	15	3.5	52.5	3	157.5	3.30	6.81	38	520	1073	5,985	1		
A-15	21	3.4	71.4	4	285.6	6.87	13.8	113	1962	3941	32,273	1		
⊗ A-16	21	1.1	23.1	3	69.3	2.70	3.90	43	187	270	2,980	1		⊗ FW of A-15
⊗ A-17	27	3.9	105.3	3	315.9	1.70	2.59	25	537	913	7,898	1		⊗ FW of A-16, 15 HW of A-19
A-18	26	7.9	205.4	4	821.6	9.05	15.67	137	7435	12,874	112,559	1		
⊗ A-19	22	3.4	74.8	3	224.4	4.35	6.43	58	976	1,443	13,015	1		FW of A-18, 17
⊗ A-20	27	7.3	197.1	4	788.4	4.93	9.57	69	3887	7,545	54,400	1		
⊗ A-21	26	6	156.0	3	468.0	2.09	3.08	30	978	1,441	14,040	1		⊗ FW of A-18, 19, 20
A-22	37	12.7	495.3	4	1981.2	7.44	11.84	132	14,740	23,457	261,518	1		
A-23	22	3	66.0	4	264.0	5.24	8.54	81	1,383	2,255	21,384	1		
A-24	31	14	434.0	4	1736.0	4.02	6.69	79	6,979	11,614	137,144	1		
A-25	17	9.8	166.6	4	666.4	5.10	8.07	76	3,399	5,358	50,646	1		
A-26	21	15.8	331.8	4	1327.2	4.52	7.49	82	5,999	9,941	108,830	1		
A-27	25	15.8	395.0	4	1580.0	4.81	7.29	78	7,600	11,518	123,240	1		
A-28	17	11	187.0	4	748.0	5.09	8.56	84	3,807	6,403	62,832	1		
⊗ A-29	22	5.4	118.8	3.5	415.8	3.13	6.30	53	1,301	2,620	22,037	1		⊗ FW of A-27
⊗ A-30	17	3.9	66.3	3	198.9	2.69	2.94	32	535	585	6,365	1		⊗ Part FW of A-29
⊗ A-31	24	28.8	691.2	4	2764.8	4.20	6.77	62	11,612	18,718	171,418	1		⊗ FW of A-26
⊗ A-32	18	5.2	93.6	3.5	327.6	2.65	2.10	38	672	688	12,449	1		⊗ FW of A-25
⊗ A-33	17	10	170.0	3	510.0	2.53	4.08	45	1,290	2,081	22,950	1		⊗ HW of A-34, also FW of A-32
A-34	17	8.9	151.3	4	605.2	5.26	10.12	89	3,183	6,125	53,863	1		
⊗ A-35	15	5.8	88.5	4	354.0	2.73	3.74	44	966	1,324	15,576	1		⊗ FW of A-34, also HW of A-36
A-36	14	3.7	47.6	4	190.4	3.25	12.01	50	619	2,287	9,520	1		
A-37	16	4.1	65.6	4	262.4	7.06	9.32	115	1853	2,446	30,176	1		
A-38	15	3	45.0	3	135.0	4.52	9.64	80	610	1,301	10,800	1		
⊗ A-39	18	10.4	187.2	3.5	655.2	2.59	4.31	43	1697	2,824	28,174	1		⊗ FW of A-37, 38
A-40	20	3	60.0	3	180.0	1.39	3.37	28	250	607	5,040	1		
A-41	16	3	48.0	3.5	168.0	2.81	4.23	58	472	711	9,744	1		
A-42	15	5.3	79.5	4	318.0	5.76	9.14	91	1832	2907	28,938	1		
A-43	17	4.6	79.2	4	312.8	5.70	7.52	84	1783	2352	26,275	1		
⊗ A-44	14	1	14.0	3.5	49.0	3.68	6.23	63	180	305	4,067	1		⊗ FW of A-43
A-45	12	5	60.0	4	240.0	6.53	10.74	110	1567	2578	26,400	1		
⊗ A-46	14	1	14.0	4	56.0	3.45	4.74	55	193	265	3,080	1		⊗ FW of A-45



# MINERAL RESERVE SUMMARY

## SECTION 74<sup>W</sup>

### GRUM DEPOSIT

DATE: March 21/97

CALCULATION BY: *[Signature]*

REVISED:

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph. %	REMARKS
						Pb %	Zn %	Ag gm/m <sup>3</sup>	Pb % m.t.	Zn % m.t.	Ag gm m.t.			
H-1	27	3.1	83.7	3	251.1	5.02	3.88	59	1261	974	14,815			
H-2	22	4	88.0	3.5	308.0	3.20	3.71	51	986	1,143	15,708			
H-3	12	3.9	46.8	3	140.4	3.82	3.12	49	536	438	6,850			
H-4	30	4.6	138.0	4	552.0	7.09	5.28	85	3,914	2,915	46,920			
H-5	19	3	57.0	3	171.0	5.5	4.63	83	941	792	14,193			
H-6	29	4.8	139.2	4	556.8	9.58	6.88	122	5,334	3,831	67,930			
H-7	13	5.4	70.2	4	280.8	3.26	1.70	54	915	477	15,163			⊗ HW of H-6
H-8	15	0.8	12.0	4	48.0	4.83	3.60	64	232	173	3,072			⊗ FW of H-6
H-9	16	1.2	19.2	3	57.6	3.40	3.25	45	196	187	2,592			⊗ FW of H-6
H-10	11	4.1	45.1	4	180.4	4.54	3.87	26	819	698	4,690			
F-1	12	3.2	38.4	4	153.6	7.37	11.45	134	1132	1759	20,582			
F-2	15	3	45.0	3	135.0	2.22	3.87	43	300	522	5,805			
F-3	13	3	39.0	3	117.0	2.83	3.25	37	331	380	4,329			
D-1	30	1.1	33.0	3	99.0	2.15	2.00	30	213	198	2,970			⊗ HW of D-2
D-2	30	8.9	267.0	3	801.0	3.34	3.07	40	2675	2459	32,040			
D-3	30	2	60.0	3	180.0	2.55	2.03	33	459	365	5,940			⊗ FW of D-2

# MINERAL RESERVE SUMMARY

## SECTION 74<sup>W</sup>

### GRUM DEPOSIT

DATE: March 21/77  
CALCULATION BY: J. Chou  
REVISED:

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph. %	REMARKS
						Pb %	Zn %	Ag g <sup>m</sup> /m <sup>3</sup>	Pb % m.t.	Zn % m.t.	Ag g <sup>m</sup> m.t.			
<u>TOTAL</u>						<u>KEOR ADDISON MINERAL RESERVES:</u>								
7-12	752	7.49	5631.5	3.61	20,323.0	5.71	9.18	91	115,943	186,612	1,839,788	14.89		
10-12	202	8.71	1758.8	3.72	6,537.5	4.17	6.66	67	27,270	43,566	437,467	10.83		
7-10	954	7.75	7390.3	3.63	26,869.5	5.33	8.57	85	143,213	230,178	2,277,255	13.90		
⊗ 8-10	(89)	(2.18)	194.0	3.60	699.0	3.40	5.99	59	2375	4104	40,894	9.25		
* 8-10	223	4.65	1037.0	3.04	3156.1	3.28	5.36	46	15,356	16,913	144,427	8.64		
T 8-10			1231.0	3.13	3954.1	3.30	5.45	48	12,731	21,022	185,321	8.75		
⊗ 7-8	954	7.95	7584.3	3.63	27,559.5	5.28	8.50	84	145,588	234,282	2,318,149	13.78		
T 7-8	1177	7.32	8621.3	3.56	30,714.6	5.08	8.18	80	155,944	251,200	2,462,576	13.26		
⊗ 6-8	(121)	(5.51)	667.1	3.27	2183.4	2.55	4.26	41	5565	9297	88,497	6.81		
* 6-8	386	5.04	1944.5	3.03	5901.1	2.67	3.76	42	15,738	22,172	250,708	6.43		
T 6-8			2611.6	3.10	8084.5	2.64	3.99	42	21,303	31,469	339,205	6.53		
⊗ 7-6	1177	7.89	9288.4	3.54	32,899	4.91	7.92	78	161,509	260,497	2,551,073	12.83		
T 7-6	1563	7.19	11,232.9	3.45	39,799.1	4.57	7.29	72	177,247	282,669	2,881,731	11.85		
⊗ 4-6	(491)	(4.38)	2,150.3	3.16	6801.9	1.84	2.99	30	12,493	20,309	204,296	4.53		
* 4-6	20	3	60.0	3	150.0	1.39	3.37	28	250	607	5,040	4.76		
T 4-6			2,210.3	3.16	6981.9	1.83	3.00	30	12,743	20,916	209,336	4.53		
⊗ 7-4	1563	8.56	13,383.2	3.41	45,601.0	4.16	6.64	66	189,740	302,918	3,006,077	10.30		
T 7-4	1583	8.49	13,443.2	3.41	45,781.0	4.15	6.63	66	189,990	303,585	3,011,117	10.78		

# MINERAL RESERVE SUMMARY

## SECTION 76W

### GRUM DEPOSIT

DATE: MARCH 23, 1977

CALCULATION BY: A.Y.P.

REVISED:

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph. %	REMARKS
						Pb %	Zn %	Ag gm/m <sup>3</sup>	Pb% m.t.	Zn% m.t.	Ag gm m.t.			
A1	12	3.5	42	3	126	1.63	3.52	30	205	444	3780	1		
A2	17	3.5	66.5	3	199.5	1.93	3.68	33	385	774	6583	1		⊗ HW of A3; A5
A3	29	7.3	211.7	3	635.1	3.17	6.19	29	2013	3931	18418	1		⊗ HW of A5; A
A4	31	3.0	93	3	279	1.90	3.49	29	530	974	8091	1		
A5	34	6.1	207.4	3	622.2	2.47	4.73	39	1537	2943	24266	1		⊗ HW of A7; A5
A6	44	3.0	132	3	396	1.21	2.63	19	479	1120	7524	1		
A7	42	7.4	310.8	3	932.4	2.5	4.07	41	2331	3795	38228	1		
A8	41	3.0	123	3	369	1.06	2.82	16	391	1041	5904	1		⊗ HW of A9; A7
A9	36	5.4	194.4	3	583.2	1.93	4.07	44	1126	2374	25661	1		⊗ HW of A-10
A10	41	3.1	127.1	3.5	444.8	4.10	6.32	70	1824	2811	31140	1		
A11	28	3.0	84	3	252	2.61	4.52	39	658	1139	9828	1		
A12	27	8.3	224.1	3	672.3	1.99	2.98	28	1338	2003	18824	1		⊗ HW of A13, FW of A11
A13	23	3.1	71.3	3	213.9	4.73	9.07	57	1012	1940	12192	1		
A14	36	4.0	144	3	432	3.02	5.26	45	1305	2272	19440	1		
A15	38	8.3	315.4	3	946.2	2.04	2.38	25	1930	2252	23655	1		⊗ FW of A14 HW of A16
A16	44	3.7	162.8	3	488.4	3.85	7.11	56	1880	3472	27350	1		
A17	24	7.0	168	3.5	588	5.49	10.76	84	3228	6327	49392	1		
A18	21	3.0	63	3	189	2.34	4.14	39	442	782	7371	1		
A19	13	8.6	111.8	4	447.2	5.96	14.6	94	2665	6529	42037	1		
A20	12	9.0	108	4	432	6.33	13.53	103	2734	5845	44496	1		
A21	14	12.5	175	4	700	8.16	14.91	126	5712	10437	88200	1		
A22	24	5.2	124.8	3	374.4	2.18	3.72	30	816	1393	11232	1		⊗ FW of A21
A23	11	4.0	44	3	132	2.03	3.70	29	268	488	3828	1		
A24	42	16.0	672	4	2688	6.58	11.02	104	17687	29622	279552	1		
A25	24	6.5	156	3	468	3.16	3.94	34	1479	1844	15912	1		⊗ FW of A-2
A26	25	18.0	450	4	1800	7.95	11.66	123	14310	20988	221400	1		Nose x displaced fault # 5
A27	10	7.1	71	4	284	6.82	6.07	101	1937	1724	28684	1		
A28	40	4.5	180	4	720	4.82	6.20	72	3470	4464	51840	1		
A29	17	3.5	59.5	3	178.5	1.93	2.87	32	344	512	5712	1		⊗ HW of A28
A30	16	3.0	48	4	192	6.08	11.15	95	1167	2141	18240	1		
A31	27	7.5	202.5	3.5	708.7	2.56	4.78	47	1814	3388	33311	1		⊗ HW of A28, 32
A32	26	4.0	104	4	416	4.24	7.91	70	1764	3291	29120	1		
A33	25	4.5	112.5	4	450	2.29	3.59	47	1031	1616	21150	1		⊗ FW of A32
A34	18	3.0	54	3.5	189	5.07	8.41	82	958	1589	15498	1		
A35	23	3.0	84	3.5	294	2.86	4.35	43	841	1279	12642	1		⊗ FW of A34
A36	39	6.0	234	4	936	3.57	4.93	51	3341	4614	47736	1		⊗ HW of A37
A37	31	7.3	226	4	905	4.71	6.88	73	4263	6228	66080	1		
A38	13	3.6	46.8	4	187.2	3.53	3.01	54	661	563	10109	1		⊗ FW of A37
A39	11	3.0	33	3	99	2.29	3.33	34	227	330	3366	1		
A40	27	3.0	81	3.5	283.5	1.93	3.47	28	547	984	7938	1		
A41	36	6.0	216	4	864	4.48	6.57	68	3871	5676	58752	1		
A42	39	4.0	156	3.5	546	2.96	4.71	40	1616	2571	21840	1		⊗ FW of A41
A43	8	3.0	24	4	96	5.37	8.60	80	515	826	7680	1		
A44	12	3.0	36	4	144	1.87	2.59	39	270	373	5616	1		⊗ HW of A45
A45	15	3.0	45	4	180	4.74	6.58	75	853	1184	13500	1		
A46	20	4.0	80	4	320	4.43	6.87	72	1417	2198	23040	1		

# MINERAL RESERVE SUMMARY

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## SECTION 76W

GRUM DEPOSIT

DATE: 3/23/77

CALCULATION BY: AYD

REVISED:

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph %	REMARKS
						Pb %	Zn %	Ag gm/m.t.	Pb % m.t.	Zn % m.t.	Ag gm m.t.			
* A97	19	3.0	57	4	228	1.96	3.50	37	447	798	8436	1		* FW of A4
A98	29	4.5	130.5	4	522	5.82	11.34	91	3038	5919	47502	0		
H1	20	5.5	110	4	440	10.16	7.87	128	4470	3463	56320	0		
H2	27	3.0	81	4	324	7.09	5.98	75	2297	1937	24300	0		
H3	19	3.0	57	4	228	7.04	3.75	65	1605	855	14820	0		
H4	33	7.5	247.5	4	990	6.87	6.86	102	6801	6791	100980	0		
H5	41	3.7	151.7	4	606.8	3.64	2.92	61	2209	1772	37015	0		
* HG	39	3.5	136.5	4	546	2.71	1.49	38	1480	814	20748	1		FW of H5
H7	24	3.7	88.8	4	355.2	3.39	2.07	52	<del>1204</del> 1193	735	18470	1		
F1	20	6	120	4	480	5.25	7.90	101	2520	3792	48480	0		
F2	34	3	102	3.5	357	2.20	2.49	30	785	889	10710	1		
F3	28	4	112	4	448	1.89	2.17	32	847	972	14336	1		
D1	30	3	90	3.5	315	2.83	4.35	44	891	1370	13860	0		
D2	30	3	90	4	360	2.46	3.17	36	886	1141	12960	1		
D3	30	3	90	4	360	4.13	2.26	43	1487	814	15480	0		
D4	30	3	90	4	360	1.83	3.26	20	659	1174	7200	1		
D5	30	4	120	4	480	4.23	4.42	45	2030	2122	21600	0		
D6	30	3	90	4	360	4.73	6.72	61	1703	2419	21960	0		
I1	30	3	90	4	360	3.66	4.20	50	1318	1512	18000	0		

# MINERAL RESERVE SUMMARY

## SECTION

GRUM DEPOSIT 76W

DATE: MARCH 23, 1977  
CALCULATION BY: A.Y.  
REVISED:

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph. %	REMARKS
						Pb %	Zn %	Ag gm/m <sup>3</sup>	Pb % m.t.	Zn % m.t.	Ag gm m.t.			
C1	43	4.3	184.9	3	554.7	3.94	6.93	71	2186	3844	39384	□		
⊗ C2	52	3.4	176.8	3	530.4	1.89	2.60	26	1002	1379	13790	1		X FW of C1
C3	50	5.7	285	3.5	997.5	4.26	7.40	69	4249	7381	68828	□		
C4	37	4.6	170.2	3	510.6	5.32	9.23	76	2716	4713	38806	□		
⊗ C5	58	4.2	243.6	3	730.8	1.78	4.05	25	1301	2960	18270	1		⊗ HW C3, C6
C6	37	7.0	259	3	777	3.51	7.43	54	2727	5773	41958	□		
C7	42	3.8	<del>159.6</del> <sup>133.6</sup>	3	<del>478.8</del> <sup>405.8</sup>	1.58	3.43	25	<del>757</del> <sup>633</sup>	<del>1642</del> <sup>1875</sup>	<del>11970</del> <sup>10920</sup>	1		
C8	22	12	<del>264</del> <sup>357.6</sup>	3	792	4.33	7.82	77	<del>3429</del> <sup>3525</sup>	<del>6193</del> <sup>8525</sup>	<del>60984</del> <sup>10920</sup>	□		
C9	16	3.8	60.8	3	182.4	5.82	9.25	87	1062	1687	15869	□		
⊗ C10	16	3.0	48	3	144	1.27	3.35	26	183	482	3744	1		FW of C9
C11	26	3.0	78	3	234	2.97	5.46	48	695	1277	11232	□		
C12	14	5.0	70	3.5	245	5.54	11.51	105	1357	2820	25725	□		
C13	20	3.3	66	3	198	4.65	5.86	69	921	1160	13662	□		
⊗ C14	17	3.6	<del>61.2</del> <sup>31</sup>	3	<del>183.6</del> <sup>111.6</sup>	2.14	3.16	36	<del>393</del> <sup>239</sup>	<del>580</del> <sup>353</sup>	<del>6610</del> <sup>4018</sup>	1		X FW of C13
C15	21	4.2	88.2	3.5	308.7	4.18	7.17	66	1290	2213	20374	□		
C16	20	3.0	60	3	180	2.12	3.63	34	382	653	6120	1		
C17	13	3.6	46.8	3	140.4	1.44	2.6	27	202	365	3791	1		
⊗ C18	25	6.1	152.5	3.5	<del>533.7</del> <sup>799.3</sup>	1.99	3.65	33	<del>1062</del> <sup>1634</sup>	<del>1448</del> <sup>2233</sup>	<del>17612</del> <sup>25546</sup>	1		⊗ HW of C19, C20
C19	17	3.3	56.1	3.5	196.3	4.04	7.56	62	793	1484	12173	□		
C20	12	3.0	36	3	108	6.04	6.60	74	652	713	7992	□		
C21	21	3.0	63	3	189	2.09	2.05	31	395	387	5859	1		
⊗ C22	28	8.1	226.8	3	680.4	2.36	4.38	36	1606	2950	24494	□		⊗ HW of C23
⊗ C23	27	3.0	81	3	243	4.4	5.08	58	1069	1234	14094	□		⊗ HW of C24
C24	16	4.3	69.8	3	206.4	5.36	7.77	78	1106	1604	16099	□		
C25	36	4.4	158.4	3	475.2	5.25	8.36	80	2495	3973	38016	□		
⊗ C26	36	3.9	140.4	3	421.2	2.0	3.10	40	<del>842</del> <sup>876</sup>	1306	16848	1		⊗ HW of C27
C27	26	7.6	197.6	3.5	691.6	6.55	11.17	101	4530	7725	69852	□		
⊗ C28	25	2.1	52.5	3	157.5	1.68	2.33	22	265	367	3465	1		⊗ HW of C27, C29
C29	26	6.2	161.2	3	483.6	5.63	8.17	76	2723	3951	36754	□		
⊗ C30	18	1.5	27	3	81	2.25	3.35	35	<del>182</del> <sup>3</sup>	271	2835	1		⊗ HW of C31
C31	15	5.5	<del>82.5</del> <sup>85.5</sup>	3	<del>247.5</del> <sup>256.5</sup>	3.07	3.93	45	<del>760</del> <sup>787</sup>	<del>973</del> <sup>1098</sup>	<del>11138</del> <sup>11543</sup>	□		
⊗ C32	18	3.0	54	3.5	189	2.34	2.62	34	442	495	6426	1		⊗ FW of C33
C33	18	3.1	55.8	3	167.4	3.95	4.40	63	661	736	10546	□		
⊗ C34	19	3.0	<del>57</del> <sup>61.5</sup>	3	<del>183.6</del> <sup>183.6</sup>	2.40	1.93	33	410	<del>330</del> <sup>354</sup>	<del>5643</del> <sup>6059</sup>	1		⊗ FW of C33
C35	19	3.8	72.2	3	216.6	2.27	1.90	24	492	412	5198	1		
⊗ C36	19	4.0	76	3	228	2.20	2.87	32	502	654	7296	1		⊗ HW of C25
⊗ C37	17	1.2	20.4	3	61.2	3.48	3.30	46	213	202	2815	□		⊗ FW of C25
C38	12	4.5	54	3	162	3.4	1.96	45	551	317	7290	1		
C39	16	3.0	48	3	144	2.80	2.45	37	403	353	5326	1		
C40	14	3.5	49	3	147	3.85	5.5	64	566	808	9408	□		
⊗ C41	13	3.0	39	3	117	2.95	2.38	45	345	278	526	1		⊗ FW of C40

RESERVE

# MINERAL RESERVE SUMMARY

4/4

## SECTION 76W

### GRUM DEPOSIT

DATE: MARCH 24, 1977

CALCULATION BY: A.Y. PO

REVISED:

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph. %	REMARKS
						Pb %	Zn %	Ag gm/m.t.	Pb % m.t.	Zn % m.t.	Ag gm m.t.			
<i>TOTAL KERR ADDISON MINERAL RESERVES</i>														
> 12 1/2% Pb	565	6.96	3933.1	3.68	14496.9	6.40	10.11	98.24	92885	146,540	1424170	16.5		
10-12%	464	4.58	2123.1	3.55	7542.4	4.38	6.78	66.94	33052	51162	504,861	11.16		
> 10%	1029	5.88	6056.2	3.63	22039.3	5.71	8.97	87.52	125937	197702	1929,031	14.68		
8-10%	(66)	(4.77)	315	3.74	1179	3.74	4.96	52.49	4410	5848	61830	8.7		
* 8-10%	153	4.30	658.5	3.18	2095.5	3.46	5.32	43.0	7270	11146	90644	8.78		
T 8-10	219	(4.44)	973.5	3.36	3274.5	3.56	5.19	46.5	11680	16994	152474	8.75		
8	1029	6.19	6371.2	3.64	23218.3	5.61	8.76	86	130347	203550	1990861	14.37		
T 8	1182	5.94	7029.7	3.6	25313.8	5.44	8.48	82	137617	214,696	2081505	13.92		
6-8%	(212)	(5.12)	1086.9	3.24	3528.7	2.65	4.31	41.59	9356	15201	146784	6.96		
* 6-8%	271	4.31	1169.4	3.32	3884.9	2.99	3.88	45.10	11633	15100	175186	6.87		
T 6-8	(483)	(4.67)	2256.3	3.28	7413.6	2.83	4.03	43.43	20989	30301	321970	6.91		
6	1182	6.86	8116.6	3.55	28842.5	5.09	7.97	77	146973	229897	2228289	13.66		
T 6	1433	6.39	9286	3.52	32727.4	4.85	7.49	73	158606	244997	2403475	12.34		
4-6%	(652)	(3.92)	2555.8	3.23	8270.1	1.98	2.98	30	16370	24720	246534	4.96		
* 4-6%	350	3.38	1186.4	3.40	4031.5	2.18	2.79	32	8810	11286	128144	4.97		
T 4-6%	1002	3.73	3742.2	3.29	12301.6	2.05	2.93	30	25180	36006	374678	4.98		
4	1453	8.15	11841.8	3.46	40997.5	4.27	6.58	64	174976	269717	2650009	10.85		
T 4	1803	7.22	13028.2	3.45	45029	4.08	6.24	61	183785	261003	2778153	10.32		

# MINERAL RESERVE SUMMARY

## SECTION 78<sup>W</sup>

### GRUM DEPOSIT

DATE: March 22/77

CALCULATION BY: *[Signature]*

REVISED:

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph. %	REMARKS
						Pb %	Zn %	Ag gm/m <sup>3</sup>	Pb% m.t.	Zn% m.t.	Ag gm m.t.			
A-1	11	7	77.0	4	309.0	4.72	8.34	83	1454	2569	25,564	☑		
A-2	19	4.7	89.3	3	267.9	1.82	3.94	32	488	1056	8573	1		Up dip of A-3
A-3	25	3.8	95.0	3	285.0	2.2	5.11	39	627	1456	11,115	Γ		
A-4	20	6.1	122.0	3	366.0	1.62	3.75	23	593	1375	8418	1		HW of A-5 FW of A-2, 3
A-5	37	3.7	136.9	3	410.7	1.84	4.62	29	756	1897	11,910	Γ		
A-6	16	3	48.0	3	144.0	2.01	3.80	31	289	547	4464	1		
A-7	38	4.1	155.8	3	467.4	2.19	4.12	39	1024	1926	19,229	Γ		
A-8	23	5.3	121.9	3	365.7	1.87	3.53	31	684	1291	11,337	1		165 m <sup>2</sup>
A-9	22	3	66.0	3.5	231.0	3.95	6.37	65	912	1471	15,015	□		
A-10	32	2.6	83.2	3	249.6	2.70	4.40	41	674	1098	10,234	Γ		FW of A-9
A-11	40	3.1	124.0	4	496.0	7.60	12.74	113	3770	6319	58,048	☑		
A-12	40	1.8	72.0	3	216.0	2.05	4.50	30	443	972	6480	Γ		FW of A-11
A-13	15	3.5	52.5	4	210.0	3.64	6.93	61	764	1455	12,810	□		
A-14	15	1	15.0	3	45.0	2.20	3.66	37	99	165	1665	1		FW of A-13
A-15	15	5	75.0	3.5	262.5	2.43	4.03	39	638	1058	10,238	Γ		
A-16	23	3	69.0	3.5	241.5	3.95	6.47	60	930	1563	14,490	□		
A-17	20	2.5	50.0	3	150.0	2.05	3.12	44	308	468	6600	1		FW of A-16
A-18	33	3.8	125.4	3	376.2	1.79	2.46	29	673	925	10,910	1		HW of A-19
A-19	34	3	102.0	3	306.0	2.83	5.10	48	866	1561	14,688	Γ		
A-20	31	2	62.0	3	186.0	1.14	3.20	20	212	614	3720	1		
A-21	30	3	90.0	3	270.0	3.81	5.20	49	1029	1404	13,230	□		
A-22	46	3	138.0	4	552.0	4.40	8.36	46	2429	4615	25,392	☑		
A-23	54	2.5	135.0	4	540.0	2.99	5.74	50	1615	3100	27,060	□		FW of A-22
A-24	50	3	150.0	3	450.0	1.80	2.69	30	810	1211	13,500	1		FW of A-23 183 m <sup>2</sup>
A-25	41	1.5	61.5	3	184.5	1.63	3.50	25	301	646	4613	1		HW of A-26
A-26	39	3	117.0	3	351.0	1.86	3.56	27	653	1250	9477	Γ		
A-27	29	9.8	284.0	4	1136.8	5.59	10.74	81	6355	12,209	92,081	☑		360 m <sup>2</sup>
A-28	32	5.8	185.6	3	556.8	2.37	3.86	34	1320	2,149	18,931	Γ		FW of A-27
A-29	40	3.3	92.0	3	276.0	2.50	1.50	32	690	414	2832	1		FW of A-28
A-30	29	1.5	43.5	3	130.5	1.50	3.00	26	196	392	3293	1		HW of A-31
A-31	29	3.3	95.7	4	382.8	3.28	5.17	50	1256	1979	19,140	□		160 m <sup>2</sup>
A-32	8	14.7	117.6	4	470.4	6.51	11.55	97	3062	5433	45,629	☑		
A-33	9	20	180.0	4	720.0	5.18	10.07	88	3730	7250	63,360	☑		237.5 m <sup>2</sup>
A-34	12	14	168.0	4	672.0	5.58	10.00	86	3750	6120	57,792	☑		180 m <sup>2</sup>
A-35	22	12.8	281.6	4	1126.4	5.35	13.49	77	6026	15,195	86,733	☑		302.5 m <sup>2</sup>
A-36	32	1.6	51.2	3	153.6	2.29	2.68	35	352	412	5376	1		FW of A-32, 33, A-34, 35
A-37	13	4.9	63.7	3	191.1	3.15	2.99	35	602	571	6689	Γ		
A-38	23	4.4	101.2	4	404.8	4.00	6.18	66	1619	2502	26,717	□		
A-39	18	6.7	120.6	3	361.8	3.60	3.57	56	1302	1400	20,261	Γ		HW of A-38
A-40	16	4.8	76.8	4	307.2	2.32	1.97	27	713	615	8294	1		HW of A-39
A-41	23	5	115.0	4	460.0	5.14	8.03	90	2364	3694	41,400	☑		
A-42	27	4.1	110.7	3.5	387.5	2.22	5.09	44	860	1972	17,048	Γ		
A-43	11	5.1	56.1	3	168.3	1.77	2.93	35	298	493	5891	1		
A-44	20	5.4	108.0	4	432.0	4.5	6.27	77	1944	2709	33,264	□		
A-45	20	4.3	86.0	4	344.0	3.89	5.72	70	1338	1864	24,080	□		HW of A-46
A-46	32	14.1	451.2	4	1804.8	5.11	8.47	86	9223	15,287	155,213	☑		



# MINERAL RESERVE SUMMARY

## SECTION 78<sup>W</sup>

### GRUM DEPOSIT

DATE: March 25/77

CALCULATION BY: *HLB*

REVISED:

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph %	REMARKS
						Pb %	Zn %	Ag gm/m <sup>3</sup>	Pb % m.t.	Zn % m.t.	Ag gm m.t.			
ⓐ C-1	19	1.9	34.2	3	102.6	1.60	3.66	25	164	376	2565	1		ⓐ HW of C-2
C-2	23	3	69.0	3	207.0	3.87	6.87	56	801	1422	11,592	□		
ⓑ C-3	26	2.4	62.4	3	187.2	1.55	2.58	24	290	483	4493	1		ⓑ HW of C-4
C-4	28	3	84.0	3	252.0	2.17	4.26	32	547	1074	8064	Γ		
C-5	47	5.8	272.6	3	817.8	2.09	4.34	35	1709	3549	28,623	Γ		
ⓐ C-5 <sup>b</sup>	43	1.4	60.2	3	180.6	1.28	2.20	25	231	906	4515	1		ⓐ HW of C-5
ⓐ C-6	22	0.5	11.0	3	33.0	1.45	4.74	20	48	156	660	Γ		ⓐ HW of C-7
C-7	28	10.3	228.4	3	865.2	3.35	6.65	48	2898	5754	41,530	□		
C-8	34	3	102.0	3	306.0	1.90	4.43	34	581	1356	10,404	Γ		
ⓐ C-9	31	3.1	96.1	3	288.3	1.18	2.99	17	340	862	4901	1		ⓐ HW of C-10, also FW of C-7
C-10	35	9.7	340.0	3	1019	3.97	8.61	54	4043	8769	54,929	□		
C-10 <sup>b</sup>	43	1.6	69.8	3	206.4	2.51	4.78	33	518	987	6811	Γ		ⓐ FW of C-10
C-11	18	3	54.0	3	162.0	1.92	3.71	30	311	601	4860	1		
C-12	18	4.3	77.4	3	232.2	2.34	4.65	37	520	1080	8591	Γ		
C-13	11	4	44.0	3	132.0	1.09	3.22	19	144	425	2508	1		
C-14	19	3.5	66.5	4	266.0	5.97	8.65	104	1588	2301	27,664	□		
C-15	31	4	124.0	3	372.0	2.62	4.20	39	975	1562	14,508	Γ		
C-16	24	3.9	93.6	3	280.8	3.52	7.01	56	998	1968	15,725	□		
C-17	36	4	144.0	3	432.0	2.85	4.72	41	1231	2039	17,712	Γ		
ⓐ C-18	39	4.4	171.6	3	514.8	2.99	4.02	44	1539	2070	22,651	Γ		ⓐ HW of C-19
C-19	27	5.2	140.4	4	561.6	4.97	9.79	72	2791	5498	40,435	□		
ⓐ C-20	35	3	105.0	3	315.0	3.39	4.68	46	1068	1474	14,490	□		ⓐ FW of C-19
ⓐ C-21	38	1	38.0	3	114.0	2.75	3.40	38	314	388	4332	Γ		ⓐ FW of C-20
ⓐ C-22	40	3.8	152.0	3	456.0	1.54	2.63	25	702	1199	11,400	1		ⓐ FW of C-21 part HW of C-2
ⓐ C-23	50	6.3	315.0	3	945.0	1.68	2.74	24	1588	2589	22,680	1		ⓐ HW of C-24
C-24	33	6.4	211.2	4	844.8	2.40	3.98	40	2028	3362	33,792	Γ		
ⓐ C-25	37	4.5	166.5	3.5	582.8	1.72	2.71	31	1002	1579	18,065	1		ⓐ FW of C-24 HW of C-26
ⓐ C-26	41	6.1	250.1	3	750.3	2.2	4.77	38	1651	3579	28,511	Γ		ⓐ HW of C-25
C-27	17	7.4	125.8	4	503.2	4.24	7.29	65	2134	3668	32,708	□		
C-28	34	6.9	234.6	3	703.8	3.23	5.74	50	2273	4040	35,190	□		
C-29	27	3	81.0	3	243.0	2.74	5.72	52	666	1390	12,636	□		
ⓐ C-30	37	2.8	103.6	3	310.8	2.56	4.51	39	796	1402	12,121	Γ		ⓐ HW of C-31
C-31	22	3.8	83.6	3	250.8	3.80	6.43	61	953	1613	15,299	□		
ⓐ C-32	24	1	24.0	3	72.0	2.13	2.90	28	153	209	2016	1		ⓐ FW/HW of C-31
C-33	23	6.6	151.8	3.5	531.3	3.40	8.56	60	516	4548	9108	□		
C-34	18	6.3	113.4	4	453.6	6.16	11.83	87	2794	5366	39,463	□		
ⓐ C-35	19	3.4	64.6	3.5	226.1	2.97	3.43	44	672	776	9948	Γ		ⓐ FW of C-34
C-36	30	4	120.0	4	480.0	4.65	6.28	72	2232	3014	34,560	□		
ⓐ C-37	32	4.5	144.0	3.5	504.0	4.16	4.15	64	2097	2092	32,256	□		ⓐ FW of C-36
C-38	29	6.3	182.7	3	548.1	2.34	2.82	35	1283	1546	19,184	1		
C-39	22	3	66.0	3	198.0	1.78	3.00	24	293	594	4752	1		
C-40	23	3	69.0	3	207.0	1.74	2.50	28	360	518	5796	1		
C-41	30	5	150.0	4	600.0	4.82	5.18	59	2892	3108	35,400	□		
C-42	30	5	150.0	4	600.0	4.54	8.48	71	2724	5088	42,600	□		

# MINERAL RESERVE SUMMARY

## SECTION 78<sup>W</sup>

### GRUM DEPOSIT

DATE: *March 29/77*  
 CALCULATION BY: *[Signature]*  
 REVISED:

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph. %	REMARKS	
						Pb %	Zn %	Ag g <sup>m</sup> /m <sup>1</sup>	Pb % m.t.	Zn % m.t.	Ag g <sup>m</sup> m.t.				
7-12	123	509	8.04	4093.1	3.92	16,032.2	5.65	10.17	63	90,596	162,986	1,010,098	15.82		
10-12		444	4.62	2052.9	3.78	7,773.6	4.13	6.58	60	32,124	51,138	465,808	10.71		
> 10		953	6.45	6146.0	3.87	23,805.5	5.16	8.99	62	122,720	214,124	1,475,906	14.15		
⊗ 8-10	(196)	(3.38)	663.0	3.73	2475.0	3.60	5.13	58	8915	12,695	143,616	8.73		⊗ Adj. HW/FW of higher grade	
* 8-10	189	3.38	733.5	3.17	2327.7	3.52	5.44	53	8191	12,653	124,512	8.96		* Not adj. HW/FW of higher grade	
T 8-10			1396.5	3.44	4802.7	3.56	5.28	56	17,106	25,338	268,128	8.84			
⊗ 7-8	953	7.14	6809.0	3.86	26,280.8	5.01	8.63	61	131,635	226,809	1,619,522	13.64		⊗ 7.10% plus adj. 8-10% HW/FW	
T 7-8	1142	6.60	7542.5	3.79	28,608.5	4.89	8.37	61	139,926	239,462	1,744,034	13.26		T = Total of all 8% plus, incl.	
⊗ 6-8	(408)	(2.93)	1216.3	3.25	3953.2	2.69	4.21	41	10,641	16,659	161,291	6.90		⊗	
* 6-8	508	4.05	2058.1	3.15	6478.4	2.35	4.28	38	15,251	27,758	247,104	6.63			
T 6-8			3274.4	3.19	10,431.6	2.48	4.26	39	25,892	44,417	408,395	6.74			
⊗ 7-6	1142	7.67	8758.8	3.72	32,561.7	4.62	7.87	59	150,467	256,121	1,905,325	12.49		⊗ 7.8% plus adj. 6-8% HW/FW	
T 7-6	1650	6.56	10,816.9	3.61	39,040.1	4.24	7.27	55	165,718	283,879	2,152,429	11.51			
⊗ 4-6	(665)	(2.50)	1720.5	3.42	5878.1	1.75	2.79	27	10,311	16,397	156,949	4.54		⊗	
* 4-6	244	3.94	960.8	3.30	3170.4	1.92	3.17	31	6103	10,045	97,058	5.09			
T 4-6			2681.3	3.37	9048.5	1.81	2.92	28	16,414	26,442	254,007	4.73			
⊗ 7-4	1650	7.60	12,537.4	3.58	44,918.2	3.92	6.68	51	176,029	300,276	2,309,378	10.60		⊗	
T 7-4	1894	7.13	13,495.2	3.56	48,088.6	3.79	6.45	50	182,132	310,321	2,406,436	10.24			

MINERAL RESERVE SUMMARY

SECTION 80<sup>W</sup>

GRUM DEPOSIT

DATE: March 27/17

CALCULATION BY: J. Bedt

REVISED:

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph. %	REMARKS
						Pb %	Zn %	Ag g <sup>m</sup> /m <sup>l</sup>	Pb% m.t.	Zn% m.t.	Ag g <sup>m</sup> m.t.			
A-1	31	5.2	161.2	3	483.6	1.33	3.42	26	667	1654	12574	1		
A-2	30	6.2	186	3	558	2.79	5.39	46	1557	3008	25668	17		
A-3	27	5.4	145.8	3	437.4	2.58	3.51	47	1128	1535	20558	7		
A-4	13	4	52	3	156	2.35	4.25	38	367	663	5928	7		
A-5	32	3	96	3.5	336	3.34	3.51	51	1122	1179	17136	7		
A-6	25	4	100	3.5	350	4.30	6.56	60	1505	2296	21000	17		
Ⓢ A-7	30	3.1	93	3	279	1.73	3.03	27	483	845	7533	1		Ⓢ FW of A-6
A-8	27	3.2	86.4	3	259.2	2.20	3.61	31	570	936	8035	1		
A-9	22	3	66	4	264	5.76	7.67	85	1521	2025	22440	17		
Ⓢ A-10	24	6	144	3	432	2.32	4.32	42	1002	1866	18144	7		Ⓢ FW of A-9
Ⓢ A-11	25	2.7	67.5	3	202.5	1.68	2.68	25	340	543	5062	1		Ⓢ FW of A-10
A-12	28	3	84	3	252	2.88	3.30	33	726	832	8316	7		
Ⓢ A-13	32	4	128	3	384	2.30	4.82	46	883	1851	17664	7		Ⓢ HW of A-14
A-14	32	4.3	137.6	3	412.8	3.00	5.16	59	1238	2130	24335	17		
Ⓢ A-15	32	2.1	67.2	3	201.6	1.63	3.24	26	329	653	5242	1		Ⓢ FW of A-14
A-16	30	5.6	168	3	504	2.55	1.92	30	1285	968	15120	1		
A-17	23	3	69	3	207	2.56	5.01	43	530	1037	8901	7		
A-18	30	12.8	384	3	1152	3.17	5.65	51	3652	6543	58752	17		
Ⓢ A-19	21	3.9	81.9	3	245.7	1.65	3.05	28	405	757	6880	1		Ⓢ HW of A-20, also FW of A-18
A-20	38	4.8	182.4	4	729.6	4.66	7.86	68	3400	5735	49613	17		
Ⓢ A-21	29	7.9	229.1	3	687.3	2.13	2.46	27	1464	1691	18557	1		Ⓢ FW (part) of A-22
Ⓢ A-22	24	5.1	122.4	3	367.2	2.38	3.01	24	874	1105	8813	1		Ⓢ HW of A-23
Ⓢ A-23	21	3.6	75.6	3	226.8	4.58	3.21	62	1039	728	14062	7		Ⓢ HW of A-24
A-24	20	3.8	76	3	228	6.20	8.55	98	1414	2018	22344	17		
Ⓢ A-25	20	6.1	122	3	366	2.04	2.93	32	747	1072	11712	1		Ⓢ FW of A-24
A-26	20	10.8	216	4	864	4.64	7.47	75	4009	6454	64800	17		
A-27	19	11	209	4	836	5.49	8.56	80	4590	6738	66880	17		
A-28	45	8.8	396	4	1584	5.87	8.82	91	9293	13971	144144	17		
Ⓢ A-29	37	2.1	77.7	3	233.1	1.75	3.02	31	415	703	7226	1		Ⓢ FW of A-27, 28 also HW of A-30
A-30	36	3.2	115.2	3	345.6	2.91	4.67	40	971	1614	13824	7		
A-31	24	4.2	100.8	3	302.4	2.25	3.38	29	680	1022	8770	1		
Ⓢ A-32	29	2.9	84.1	3	252.3	3.00	5.13	46	757	1294	11606	17		Ⓢ part HW of A-33
A-33	26	4.5	117	4	468	5.77	8.03	95	2700	3758	44460	17		
A-34	22	3.8	83.6	3	250.8	3.01	5.60	71	755	1404	17807	17		
A-35	26	5	130	4	520	5.09	3.80	85	2647	4160	44200	17		
A-36	33	5.5	209	4	836	4.97	9.32	74	4155	7791	61864	17		
Ⓢ A-37	33	5.4	178.2	4	712.8	2.31	4.75	46	2003	3386	32789	7		Ⓢ HW of A-36
A-38	26	3	78	3	234	3.52	1.66	42	824	388	9828	1		
A-39	63	3.2	201.6	4	806.4	4.25	5.77	63	3427	4814	54835	17		
Ⓢ A-40	55	4.5	247.5	4	990	2.57	2.49	41	2564	2465	40590	1		Ⓢ FW of A-39
A-41	42	3	126	3	378	3.45	5.15	65	1304	1947	24570	17		
Ⓢ A-42	43	4.4	189.2	3	568	2.10	3.65	29	1192	2072	16460	1		Ⓢ FW of A-41
A-43	66	6.3	415.8	3.5	1455	4.33	6.24	65	6301	9081	94594	17		
A-44	50	11.3	565	4	2260	6.10	10.59	96	13786	23933	216960	17		
A-45	24	5.4	129.6	4	518.4	4.62	8.91	74	2395	4619	38361	17		



# MINERAL RESERVE SUMMARY

## SECTION 80<sup>w</sup>

### GRUM DEPOSIT

DATE: March 29/77  
CALCULATION BY: J. B. [unclear]  
REVISED:

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph. %	REMARKS
						Pb %	Zn %	Ag gm/ml	Pb % m.t.	Zn % m.t.	Ag gm m.t.			
C-1	71	3.2	227.2	3	681.6	3.86	4.25	43	2631	2897	29309	π		
① C-2	70	2.7	189.0	3	567	2.72	2.78	33	1542	1576	18711	1		③ FW of C-1 HW of C-3
C-3	69	6.4	441.6	3	1324.8	2.32	4.77	33	3073	6319	43718	Γ		
C-4	71	3	213	3	639	3.04	5.57	46	1943	3559	29394	π		
③ C-5	70	1.2	84	3	252	2.23	4.00	29	562	1008	7308	Γ		④ FW of C-4
C-6	69	3	207	3	621	2.55	5.61	43	1583	3484	26703	π		
③ C-7	66	0.5	33	3	99	1.65	3.38	23	163	335	2277	1		③ FW of C-6
C-8	60	4.7	282	3	846	4.05	8.26	43	3426	6988	36378	∇		
C-9	60	4.3	258	3	774	1.51	3.24	23	1169	2508	17802	1		
C-10	59	5.4	318.6	3	955.8	3.64	4.07	43	3479	3890	41099	Γ		
C-11	73	4.2	306.6	3	919.8	1.95	3.84	29	1794	3532	26674	1		
C-12	67	3.4	227.8	3	683.4	2.03	3.32	29	1387	2269	19818	1		
C-13	65	3	195	4	780	4.88	3.24	81	3806	7207	63180	∇		
C-14	18	5.2	93.6	3	280.8	1.55	3.62	23	435	1016	6458	1		
C-15	23	3.6	82.8	3	248.4	3.26	5.61	53	810	1393	13165	π		
C-16	13	3.5	45.5	3	136.5	2.55	5.10	38	348	696	5187	Γ		
C-17	37	3.3	122.1	4	488.4	4.82	7.34	80	2554	3585	39072	∇		
C-18	35	3.9	136.5	3	409.5	2.31	3.35	29	946	1372	11875	1		
C-19	32	4.3	137.6	3.5	481.6	4.32	6.26	67	2030	3015	32267	□		
③ C-20	38	4.9	186.2	3	558.6	2.21	3.60	32	1234	2011	17875	1		③ FW of C-19
C-21	25	8	200	3	600	1.97	3.43	30	1182	2058	13000	1		
C-22	35	9.4	329	3	987	1.37	2.79	23	1352	2754	22701	1		
③ C-23	20	6.1	122	3	366	1.46	3.86	29	534	1413	10614	1		④ HW of C-24
C-24	16	5.8	92.8	3.5	324.8	3.56	6.62	62	1156	2150	20138	□		
C-25	28	3.6	100.8	3	302.4	2.61	4.67	43	789	1412	13003	Γ		
C-26	22	13.2	290.4	4	1161.6	4.78	10.44	85	5552	12127	93736	∇		
C-27	18	6.6	118.8	4	475.2	5.21	8.29	84	2476	3739	39917	∇		
C-28	8	7	56	4	224	4.18	6.97	77	936	1561	17248	□		
C-29	31	3.1	96.1	3	288.3	2.91	6.82	60	839	1966	17298	π		
C-30	39	3.4	132.6	4	530.4	5.59	9.19	102	2965	4874	54101	∇		
C-31	50	5.2	260	3	780	3.69	5.58	60	2878	4352	46800	π		
C-32	26	6	156	3	468	3.26	5.64	49	1526	2639	22932	π		
C-33	41	4.5	184.5	3	553.5	1.75	3.04	28	968	1683	15498	1		

# MINERAL RESERVE SUMMARY

## SECTION 80<sup>W</sup>

### GRUM DEPOSIT

DATE: March 29/11

CALCULATION BY: J. P. G.

REVISED:

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph. %	REMARKS
						Pb %	Zn %	Ag g/m <sup>3</sup>	Pb % m.t.	Zn % m.t.	Ag g <sup>m</sup> m.t.			
7 12 <sup>1/2</sup>	677	5.93	4016.4	3.91	15707.6	5.55	8.74	84	87230	137314	1321897	14.3		
10-12	359	4.04	1450.8	3.43	4982.8	4.13	6.32	65	20610	31491	322720	10.4		
7 10	1036	5.28	5467.2	3.78	20690.4	5.21	8.16	79	107840	168805	1644617	13.4		
⊗ 8-10	(29)	(2.9)	84.1	3.00	252.3	3.00	5.13	46	757	1294	11606	8.1		⊗ Adj. H.W. km of higher grade
* 8-10	594	4.57	2712.5	3.00	8137.5	3.38	5.27	54	27507	42880	438308	8.7		* Not adj. H.W. of higher grade
T 8-10	(623)	(4.49)	2796.6	3.00	8389.8	3.37	5.26	54	28264	44174	449914	8.7		T = Total incl.
⊗ 7 8	1036	5.35	5551.3	3.77	20942.7	5.18	8.12	79	108597	170099	1656223	13.3		⊗ = 7.10% plus adj. 8-10% H.W.
T 7 8	1630	5.01	8179.7	3.52	28827.9	4.69	7.34	72	135347	211685	2082925	12.0		T = Total of incl.
⊗ 6-8	(256)	(3.01)	769.8	3.23	2487.6	2.88	4.29	47	7167	10665	116958	7.2		⊗
* 6-8	328	4.48	1468.5	3.03	4453.5	2.81	4.31	40	12533	19177	177670	7.1		
T 6-8	(584)	(3.83)	2238.3	3.10	6941.1	2.83	4.30	42	19700	29842	294628	7.1		
⊗ 7 6	1630	5.49	8949.5	3.50	31315.5	4.55	7.10	70	142514	222350	2199883	11.6		⊗ = 7.8% plus adj. 8-8% H.W.
T 7 6	1958	6.32	10418	3.43	35769	4.33	6.75	66	155047	241527	2377553	11.1		
⊗ 4-6	(507)	(3.32)	2016.9	3.12	6298.6	2.11	3.06	31	13288	19301	195550	5.2		⊗
* 4-6	549	4.86	2670.9	3.00	8012.7	1.94	3.12	29	15542	24999	230066	5.1		
T 4-6	(1156)	(4.05)	4687.8	3.05	14311.3	2.01	3.09	30	28830	44300	425616	5.1		
⊗ 7 4	1958	6.35	12434.9	3.38	42067.6	4.00	6.20	61	168335	260828	2573103	10.2		⊗ = 7.6% plus adj. 4-6% H.W.
T 7	2507	6.02	15105.8	3.31	50080.3	3.67	5.71	56	183877	285827	2803169	9.4		

# MINERAL RESERVE SUMMARY

## SECTION

GRUM DEPOSIT 82W

DATE: MARCH 25, 1977

CALCULATION BY: RYF

REVISOR: W.H.S

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph. %	REMARKS
						Pb %	Zn %	Ag gm/m <sup>3</sup>	Pb% m.t.	Zn% m.t.	Ag <sup>gm</sup> m.t.			
A1	108	5.0	540	3	1620	2.50	4.29	44	4052	6949	71280			
⊙ A2	108	1.0	108	3	324	1.79	3.28	34	580	1063	11,016	1		⊙ FW of A1
A3	97	4.0	388	3	1164	2.10	4.27	39	2444	10,790	45,396	1	✓	
⊙ A4	96	2.1	202	3	606	1.65	3.30	30	1000	2,000	18,180	1		⊙ FW of A4
A5	17	3.0	54	3	162	1.72	3.72	24	279	603	3888	1		
A6	17	3.4	59	3	174	1.43	2.77	22	249	482	3828	1		
A7	22	4.8	106	3	318	2.33	2.50	33	741	795	10,004	1		
A8	64	10.5	672	3.5	2352	5.00	8.00	78	11,935	19,096	186,186	1		
⊙ A9	14	2.7	38	3	114	1.53	2.60	25	174	296	2850	1		⊙ HW of A8
⊙ A10	39	3.5	137	3	411	2.11	3.05	26	867	1254	10,686	1		⊙ FW of A8
A11	11	3.0	33	3	99	2.61	4.57	38	258	452	3762	1		
⊙ A12	28	3.1	87	3	261	2.65	1.98	32	692	517	5352	1		⊙ FW of A11
A13	43	12.3	529	3.5	1852	5.51	9.0	94	10,205	16,668	174,088	1		
A14	46	7.5	345	4	1380	6.80	12.79	133	9384	17,650	183,540	1		
A15	17	3.0	51	3	153	2.63	4.03	43	403	617	6,579	1		
⊙ A16	47	3.0	141	3	423	1.78	3.23	23	753	1,366	9,729	1		⊙ Part HW of A15
A17	27	3.0	81	3	243	3.08	5.94	45	749	1,443	10,935	1		
A18	63	11.7	737	4	2948	5.34	8.15	83	15,743	24,526	244,634	1		
A19	46	3.0	138	3	414	3.26	3.95	42	1350	1,635	17,388	1		
A20	39	3.0	117	3	351	3.09	3.14	34	108	4102	11,934	1		
⊙ A21	54	9.8	518	4	2072	5.13	8.20	88	10,629	11,990	182,336	1		
A22	29	5.5	160	4	640	3.17	4.29	53	2029	2746	33,920	1		
A23	44	5.0	220	3.5	770	4.22	5.62	56	3249	4327	43,120	1		
A24	23	3.5	81	4	324	3.71	3.30	40	1202	1069	12,960	1		
⊙ A25	18	3.0	54	3	162	3.33	5.43	61	537	879	9882	1		
⊙ A26	33	3.0	99	3	297	4.59	5.21	79	1363	1547	23,463	1		
⊙ A27	26	3.0	78	3	234	1.74	2.34	32	407	547	7,488	1		⊙ HW of A26
⊙ A28	22	3.0	66	4	264	2.93	1.90	34	774	503	8,976	1		⊙ FW of A24
A29	35	3.0	105	3	315	1.93	2.20	34	608	693	10,710	1		
A30	58	4.0	232	4	928	4.09	6.63	62	3796	6153	57,536	1		
⊙ A31	20	3.0	60	4	240	2.72	2.02	44	653	485	10,560	1		⊙ HW of A32
A32	65	7.0	455	4	1820	4.93	8.41	80	8,973	18,208	145,600	1		
A33	60	11	660	3.5	2310	4.47	7.60	77	1033	1756	17,787	1		
⊙ A34	62	2.6	161	3	483	2.06	3.26	36	995	1575	17,388	1		⊙ FW of A33
A35	32	4.0	128	4	512	2.83	4.75	45	1449	2432	23,040	1		

SECTION

GRUM DEPOSIT 82W

DATE: March 26/77

CALCULATION BY: A.Y.

REVISED: W.M.S

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph. %	REMARKS
						Pb %	Zn %	Ag gm/m.t.	Pb% m.t.	Zn % m.t.	Ag gm m.t.			
C1	59	3.4	201	3	603	2.05	4.43	36	1236	2671	21708	Γ		
C2	80	3.69	295	3	885	4.14	5.55	53	3664	4912	46905	Π		
C3	31	6.0	186	3	558	4.17	6.74	67	2326	3761	37386	□		
C4	70	11.6	812	3	2436	3.66	6.94	62	8916	16906	151032	□		
C5	23	3.74	86	3.5	301	6.08	14.02	120	1830	4220	36120	□		
C6	4.5	6.5	293	3.5	1025	4.24	11.21	81	4346	11490	83025	□		
C7	7	3	21	3.5	74	2.04	3.94	43	151	292	3182	I		
C8	24	7.6	182	3.5	637	3.75	7.15	62	2388	4554	39494	□		
C9	17	3	51	3.5	179	3.30	4.62	51	591	827	9129	Γ		
C10	18	3	54	3	162	2.30	3.72	37	373	603	5994	Γ		
C11	23	7	161	3	483	2.59	4.10	38	1251	1980	18354	Γ		
C12	24	3	72	3	216	2.54	3.03	38	549	654	8208	I		
C13	30	3	90	3	270	2.3	3.75	36	621	1013	9720	Γ		
H1	18	3	54	4	216	4.13	2.99	60	892	646	12960	Γ		
H2	30	3	90	3.5	315	3.57	3.65	59	1125	1150	17010	Γ		
F1	28	3	84	3	252	1.76	2.45	24	443	617	6048	I		

# MINERAL RESERVE SUMMARY

## SECTION 82W

Weighted Mean

GRUM DEPOSIT

DATE :  
CALCULATION BY: *JPH*  
REVISED:

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph. %	REMARKS
						Pb %	Zn %	Ag g <sup>m</sup> /m.t.	Pb % m.t.	Zn % m.t.	Ag g <sup>m</sup> m.t.			
<i>Total - KERR ADDISON</i>						<i>MINERAL</i>			<i>RESERVES:</i>					
>12%	422.5	12.00	5069	3.30	16718	5.41	10.05	94.38	90511	168027	1577865	15.4		
10-12%	183	7.70	1412	3.23	4559	3.82	6.88	62.61	17426	31374	285448	10.7		
>10%	605.5	10.70	6481	3.28	21277	5.07	9.37	87.57	107937	199401	1863313	14.4		
8-10%	202	3.71	749	3.14	2357	4.06	5.56	56.98	9563	13108	137305	9.6		
>8%	807.5	8.95	7230	3.27	23634	4.97	8.99	84.52	117500	212509	1997618	14.0		
6-8%	597	3.91	2337	3.21	7505	2.58	4.89	42.79	19382	36683	321134	7.5		
>6%	1404.5	6.81	9567	3.25	31139	4.39	8.00	74.46	136882	249192	2318752	12.4		
4-6%	462	2.33	1078	3.12	3360	1.86	2.85	31.32	6242	9605	105225	4.7		
*4-6%	150	3.33	500	3.02	1511	2.00	2.73	30.69	3020	4136	46358	4.7		
T4-6%	612	2.57	1578	3.08	4871	1.90	2.82	31.12	9262	13741	151583	4.7		
74%	1404.5	7.58	10645	3.24	34499	4.15	7.50	70.2	143124	258797	2423977	11.6		
T74%	1554.5	7.17	11145	3.23	36010	4.06	7.30	68.6	146144	262933	2470335	11.3		

MINERAL RESERVE SUMMARY

SECTION 84 W

GRUM DEPOSIT

DATE: MARCH 27, 1977

CALCULATION BY: A.Y.P

REVISED:

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph. %	REMARKS
						Pb %	Zn %	Ag <sup>gm</sup> /m.t.	Pb% m.t.	Zn% m.t.	Ag <sup>gm</sup> m.t.			
A1	31	3.6	111.6 ✓	3	334.8	2.54	4.11	36	850.39	1376.03	12052.8	Γ		
⊗ A2	24	0.5	12.0 ✓	3	36	1.88	2.38	28	67.68	85.68	1008	1		⊗ HW of A3
A3	29	3.5	101.5 ✓	3	304.5	4.02	5.86	64	1224.09	1784.37	19488	Π		
⊙ A4	24	3.4	81.6 ✓	3	244.8	1.70	3.25	27	416.16	795.6	6609.6	1		⊗ HW of A5 FW of A3
A5	39	8.6	335.4 ✓	3	1006.2	4.13	5.68	60	4155.61	5715.22	60372	Π		
⊙ A6B	7	1.5	10.5 ✓	3	31.5	1.95	2.54	27	61.43	80.01	850.5	1		⊗ HW of A5
A6	20	5.1	102 ✓	3	306	1.86	3.43	30	569.16	1049.58	9180	1		
A7	20	3.7	74 ✓	3	222	2.87	4.78	45	637.14	1061.16	9990	Γ		
⊗ A8	25	3.6	90 ✓	3	270	1.61	3.00	24	434.7	810	6480	1		⊗ FW of A7 HW of A9
A9	35	3.6	126 ✓	3	378	2.08	4.06	34	786.24	1534.68	12852	Γ		
A10	39	9.1	354.9 ✓	3	1064.7	3.23	5.85	49	3438.98	6228.5	52170.3	Π		
A11	39	3.12	121.68 ✓	3	365.04	2.80	5.00	41	1022.11	1825.2	14966.64	Γ		
A12	18	3.0	54 ✓	3	162	2.45	3.80	36	396.9	615.6	5832	Γ		
A13	18	3.0	54 ✓	3	162	3.03	1.00	33	490.86	162.0	5346	1		
⊗ A14	30	3.0	90 ✓	3	270	2.55	2.76	35	688.5	745.2	9450	1		⊗ HW of A15
A15	26	3.0	78 ✓	3	234	2.67	4.53	46	624.78	1060.02	10164	Γ		
A16B	16	3.0	48 ✓	3	144	3.78	5.83	58	544.32	839.52	8352	Π		
A16	29	3.0	87 ✓	3	261	3.93	5.32	58	1085.73	1389.52	15138	Π		
⊙ A17	25	3.0	75 ✓	3	225	1.90	2.57	30	427.5	578.25	6750	1		⊗ FW of A16
A18	28	3.0	84 ✓	3.5	294	1.70	3.40	29	449.8	999.6	8526	1		
⊗ A19	16	1.2	19.2 ✓	3	57.6	2.05	2.65	29	118.08	152.64	1670.4	1		⊗ HW of A20
A20	35	5.7	192.5 ✓	3.5	698.25	5.43	9.88	83	3791.5	6898.71	57954.75	□		
A21	23	3.0	69 ✓	4	276	9.10	14.67	123	2551.6	4048.92	33948	□		
A22	49	3.0	147 ✓	3	441	3.20	6.16	60	1411.2	2716.56	26460	Π		
A23	60	9.5	570 ✓	4	2280.0	5.63	9.92	95	12836.4	22617.6	216600.0	□		
A24	49	3.6	176.4	3.5	617.4	3.53	5.27	53	2179.42	3253.7	32722.2	Π		
A25	57	5	285	3	855	3.69	5.68	57	3154.95	4856.4	48735	Π		
A26	12	4.1	49.2	3	147.6	2.40	4.40	36	354.24	649.44	5313.6	Γ		

# MINERAL RESERVE SUMMARY

## SECTION 84W

### GRUM DEPOSIT

DATE: MARCH 27/1977

CALCULATION BY: A.Y. PO

REVISED:

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph %	REMARKS
						Pb %	Zn %	Ag gm/m.t.	Pb% m.t.	Zn% m.t.	Ag gm m.t.			
C1	50	4.4	220 ✓	3	660	2.42	4.58	35	1597.2	3022.8	23 100	Γ		
⊙ C2	41	1.5	61.5 ✓	3	184.5	2.68	2.48	40	494.46	457.56	7 380	I		⊙ HW of C3
C3	47	3.5	164.5 ✓	3	493.5	3.0	4.56	46	1480.5	2250.36	22 701	Γ		
⊙ C4	39	2	78 ✓	3	234	1.58	3.55	27	369.72	830.7	6 318	I		⊙ FW of C3
C5	59	3.5	206.5 ✓ 272.7	3	619.5	1.86	2.93	28	1152.27	1815.14	17 346	I		
C6	50	7.6	380 ✓ 380	3	1140.	2.21	5.33	39	2519.4	6076.2	44 460	Γ		
C7	50	7.4	380 ✓	3	1140.	2.37	3.94	38	2701.8	4491.6	43 320	Γ		
⊙ C8	42	2.5	105 ✓	3	315	1.98	2.67	28	623.7	841.05	8 820	I		⊙ HW of C9
C9	39	8.0	312 ✓	3	936	3.93	7.35	58	3678.43	6879.6	54 288	□		
⊙ C10	25	4.5	112.5 ✓	3	337.5	1.91	2.87	38	644.63	968.63	12 825	I		⊙ HW of C11
C11	25	6.0	150 ✓	3.5	525	3.54	7.16	64	1858.5	3759	33 600	□		
C12	19	3.2	60.8 ✓	3	182.4	2.21	4.56	42	403.1	831.74	7 660.8	Γ		
C13	25	3.6	90 ✓	3	270	4.10	6.75	74	1107	1822.5	19 980	□		
C14	48	5.5	264 ✓	3.5	924	2.39	3.87	38	2208.36	3575.88	35 112	Γ		
C15	50	5.5	275 ✓	3.5	962.5	2.87	4.80	55	2762.33	4620	52 937.5	Γ		
C16	36	3.0	108 ✓	3	324	1.84	3.44	31	596.16	1114.56	10 044	I		
C17	40	6.2	248 ✓	3.5	868	4.4	7.15	74	3819.2	6206.2	64 232	□		
C18	16	3.1	49.6 ✓	3	148.8	3.69	6.01	55	549.07	894.29	8 184	Γ		
C19	25	3.0	75 ✓	3	225	2.62	2.51	34	589.5	564.75	7 650	I		
C20	30	4.0	120 ✓	4	480	3.26	4.25	45	1564.8	2040	21 600	Γ		

SECTION 84W

GRUM DEPOSIT

DATE: March 29/77  
 CALCULATION BY: A.Y. PO  
 W.P.S.  
 REVISED:

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph. %	REMARKS	
						Pb %	Zn %	Ag gm/m.t.	Pb % m.t.	Zn % m.t.	Ag gm m.t.				
TOTAL KERR ADDISON						MINERAL RESERVES:									
						(2)	(3)	(4)							
>12% PbZn	118	7.10	838.5	3.88	3254.3	5.89	10.31	95	19179.5	33565.2	308503	16.2		✓	
10-12	129	6.20	800.0	3.25	2599.0	4.02	7.18	66	10463.2	18667.3	172100	11.2		✓	
>10	247	6.63	1638.5	3.57	5853.3	5.06	8.92	82	29642.7	52232.5	480603	13.98		✓	
T 8-10	323	4.91	1584.8	3.05	4842.6	3.65	5.71	56	17683.37	27677.1	271621.5	9.36		✓	
T > 8	570	5.65	3223.3	3.32	10695.9	4.42	7.47	70	47326.07	79909.6	752224.5	11.89		✓	
6-8					Nil										
T 6-8	525	3.69	1939.78	3.95	7825.8	2.54	4.19	39.95	19909.3	35030.7	322662	6.73		✓	
T > 6	1095	4.72	5763.08	3.59	18521.7	3.63	6.20	58.03	67235.3	114940.3	1074887	9.83		✓	
4-6%	(295)	(2.21)	657.3	3.36	2225.9	2.15	2.88	30.89	4346.9	6345.3	68162	5.03			
T 4-6%	186	4.27	794.0	3.48	1930.5	2.05	2.96	30.69	3959.2	5705.6	58092	5.01			
T 4-6	(484)	(3.5)	1451.3	3.00	4366.4	2.01	2.91	30.50	8306.1	12058.9	126254	4.92		✓	
T > 4	1579	4.18	6614.4	3.42	22658.1	3.33	5.60	53.0	7557.4	124991.2	1201141	8.93		✓	
74	1095	5.32	5820.4	3.56	20727.6	3.45	5.85	55	71532	121285	68162	9.30			

# SECTION 86 W

## GRUM DEPOSIT

DATE: MARCH 28, 1977

CALCULATION BY: W.M.

REVISED:

ZONE ELEMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph. %	REMARKS
						Pb %	Zn %	Ag g/m <sup>3</sup>	Pb % m.t.	Zn % m.t.	Ag g <sup>m</sup> m.t.			
ⓐ A1	50	8.9	445	3	1335	2.21	4.54	37	2950	6061	49395			HW of A2
A2	47	6.0	282	3	846	3.01	5.15	43	2544	4357	36378			
ⓐ A3	44	10	440	3	1320	2.15	3.90	30	2838	5148	39600			FW of A2
A4	34	3.0	102	3	306	3.13	5.33	44	958	1630	13464			
ⓐ A5	44	4.7	207	3	621	2.13	2.92	24	1323	1813	14904			HW of A6
ⓐ A6	49	3.0	147	3	441	2.84	5.22	45	1252	2302	19645			HW of A7
A7	38	3.1	118	3	354	3.87	6.75	42	1370	2370	14868			
A8	81	3.0	243	3	729	2.62	4.60	35	1910	3353	25515			
A9	65	5.3	345	3.5	1208	2.31	3.55	29	2790	4288	35032			
A10	68	3.0	204	3	612	3.11	5.47	46	1903	3348	28152			
A11	68	3.0	204	3	612	4.00	7.80	64	2448	4774	39168			
A12	71	3.0	213	4	<del>852</del> 622	4.10	10.10	73	<del>3493</del> 2673	<del>6605</del> 2585	<del>62196</del> 27596			
A13	51	3.0	153	3	459	5.01	6.90	66	2300	3167	30294			
A14	56	3.1	174	4	696	7.66	11.29	103	5331	7858	71688			
A15	48	3.0	144	3.5	504	5.07	7.77	83	2555	3916	41832			
A16	60	3.1	186	3	<del>576</del> 368	4.79	7.99	82	<del>2672</del> 2720	<del>4458</del> 2538	<del>45756</del> 26376			
A16a	59	3.0	177	3.5	620	4.64	7.62	73	2876	4724	45260			
ⓐ A17	35	1.5	53	3	159	2.40	3.30	41	382	524	6519			
A18	43	3.0	129	4	516	5.16	7.04	80	2663	3633	41280			
A19	21	3.0	63	3.5	221	2.36	1.93	37	522	427	5177			
A20	46	3.7	170	4	680	3.50	5.22	54	2380	3550	36720			
A21	30	3.0	90	3.5	315	3.67	5.05	55	1156	1591	17325			
A22	69	5.3	366	4	1464	4.66	6.13	73	6852	8974	106872			
A23	71	5.5	391	3.5	1369	5.21	8.04	80	7132	10007	109520			
A24	27	4.0	108	3.5	378	3.31	4.72	48	1251	1784	19144			



# MINERAL RESERVE SUMMARY

(3)

## SECTION 86 W

GRUM DEPOSIT

DATE: MARCH 24/77

CALCULATION BY: NYJ

REVISED:

ZONE SEGMENT	DIP Length	Thick- ness	AREA m <sup>2</sup>	S.G.	TONNE m	GRADE			TONNE x GRADE			Pb + Zn %	Total Sulph. %	REMARKS
						Pb %	Zn %	Ag <sup>gm</sup> m.t.	Pb % m.t.	Zn % m.t.	Ag <sup>gm</sup> m.t.			
<i>TOTAL KERR ADDISON MINERAL RESERVES.</i>						(2)	(5)	(6)						(1)
>12-12%	511	3.9	1990	3.51	6989	5.46	9.25	85.0	38174	64628	592656	14.71		
10-12%	255	4.1	1047	3.35	3507	4.42	6.63	66.0	15522	23242	233226	11.65		✓
>10	766	3.96	3037	3.45	10496	5.11	8.37	79.0	53696	87870	825862	13.48		✓
8-10%	(49)	(3.0)	147	3.0	441	2.84	5.22	45	1252	2302	19845	8.66		
*8-10%	422	3.96	1672	3.3	5527	3.36	5.32	52	18592	29400	286345	8.68		
T8-10	(471)	(3.36)	1819	3.28	5968	3.32	5.31	51	19844	31702	306190	8.63		✓
8 >8	766	4.15	3184	3.43	10937	5.02	8.24	77	54948	90172	845727	13.26		
T78	1188	4.08	4856	3.39	16464	4.46	7.26	69	73540	119572	1132072			✓
6-8	152	7.31	1111	3.0	3333	2.22	3.97	35	7403	13229	118827	6.19		
*6-8	201	3.91	765	3.27	2505	2.62	4.27	50	7083	10705	124347	7.09		
T6-8	353	5.31	1876	3.11	5838	2.48	4.69	42	14486	23934	243174	6.57		✓
6 >6	1188	5.02	5967	3.32	19797	4.08	6.71	63	80943	132801	1250899	16.78		
T76	1389	4.84	6732	3.31	22302	3.95	6.43	61	88026	143506	1355246	10.38		✓
4-6	196	3.12	613	3.10	1899	1.95	2.96	28	3708	5622	53349	4.91		
4-6	275	3.94	1085	3.19	3460	2.25	3.29	35	7793	11374	121530	5.54		
T4-6	471	3.60	1698	3.15	5359	2.14	3.17	33	11501	16996	174879	5.31		✓
4 >4	1389	5.29	7345	3.29	24201	3.79	6.16	58	91734	149128	1408595	9.95		
T>4	1664	5.06	8430	3.28	27661	3.59	5.80	55	99527	160502	1530125	9.39		✓