

GEOLOGY DEPARTMENT OCTOBER 1986
MONTH END REPORT

It is possible to conclude from a comparison of mine model and blast hole assays that a mined dilution of approximately 10% is a valid assumption. Diluted model tonnage for October (10% dilution) is very close to blast hole tonnage. Combined metal content is about 5% higher than the diluted model prediction. This variance may be a result of sulphide dilutants bearing grades of 1-3% combined metal rather than 0% grade assumed by the model dilution calculation. Waste of this type was abundant in the 'A' Phase (3710) and the northeast section of the 'JB' Phase (3730).

Truck count reports vary 25% greater than blast hole reserve calculations for the areas mined in October. This is likely a result of underloaded trucks and a higher than 20 foot bench height on 3730 JB. The 3750 bench (JB) was plagued with hard toes and water problems resulting in higher floor elevations. This conclusion is also supported by the unusually close correspondence of truck counts and blast hole calculation in September.

Low grade comparisons vary considerably between blast hole and model calculations. This is likely a result of a large unit (30,000 tonnes on 3730 JB) of 2C5/2A of marginal grade. The unit contained varying amounts of carbonaceous material and as a result was designated as stockpile material rather than mill feed. The model considered this material as crusher feed.

All programming is very close to completion despite the fact that more attention was given to pit mapping and daily processing of dig maps. Projects to be attended to this month include a continuation of pit mapping and re-interpretation of geological sections; the application of an automatic sampler and sample comparisons to DDH assays; the use of both geology and grades to determine more accurate locations for ore flags in the pit, and thus improve grade control.

CURRAGH RESOURCES
GEOLOGY DEPARTMENT SUMMARY REPORT
OCTOBER 1986 MONTH END
(HIGH GRADE)

AY, JB Phases	<u>OreTns</u>	<u>%Pb</u>	<u>%Zn</u>	<u>Ag g/t</u>	<u>PbTns</u>	<u>ZnTns</u>	<u>Ag kg</u>
MODEL	329,410	3.00	4.73	39	9,882	15,581	12,847
MODEL (DILUTED)	372,185	2.72	4.30	35	10,127	16,014	13,172
BLAST HOLE	380,571	2.81	4.60	40	10,745	17,552	15,354
TRUCK COUNT	487,945						

* VARIANCE

	<u>OreTns</u>	<u>%Pb</u>	<u>%Zn</u>	<u>Ag g/t</u>	<u>PbTns</u>	<u>ZnTns</u>	<u>Ag kg</u>
Blast Hole vs Model	+15.5%	-6.3%	-2.8%	+2.6%	+8.7%	+9.9%	+19.5%
Model (Diluted)	+2.2%	+3.3%	+6.9%	+14.2%	+6.1%	+9.6%	+16.5%
Truck Count vs Mine Model	+31.1%						
Truck Count vs Blast Hole	+28.2%						

* excluding ramp zone for model comparisons

INVENTORY

	<u>TONNES</u>	<u>%Pb</u>	<u>%Zn</u>	<u>Ag g/t</u>	<u>Change</u>
BROKEN IN PIT:					
Phase A; 3690 AA	72,960	2.57	4.73	28	
JB Zone; 3730 GG	34,667	3.39	4.36	45	
Ramp Zone; 3910	5,632	4.92	4.80	N/A	
STOCKPILE A:					
Ramp Zone Ore	10,032	4.57	4.46	N/A	(+) 55,128
CRUSHER STOCKPILE:					
JB, AY Ore	138,997	3.20	4.56	40	(+) 84,077
STOCKPILE B:					
	nil				
=====					
Total Inventory:		=====	=====	=====	
Broken	113,259	2.93	4.60	N/A	
Stockpile	149,029	3.20	4.56	N/A	

CURRAGH RESOURCES
GEOLOGY DEPARTMENT SUMMARY REPORT
OCTOBER 1986 MONTH END
(LOW GRADE)

AY, JB Phase	<u>OreTns</u>	<u>%Pb</u>	<u>%Zn</u>	<u>Ag g/t</u>	<u>PbTns</u>	<u>ZnTns</u>	<u>Ag kg</u>
MODEL	33,920	1.65	2.87	32	560	974	1,085
MODEL (DILUTED)	44,913	1.49	2.56	28	670	1,151	1,249
BLAST HOLE	125,946	1.77	3.10	31	2,355	4,049	N/A
TRUCK COUNT	104,196						

* VARIANCE

	<u>OreTns</u>	<u>%Pb</u>	<u>%Zn</u>	<u>Ag g/t</u>	<u>PbTns</u>	<u>ZnTns</u>	<u>Ag kg</u>
Blast Hole vs Model	+271%	+7.2%	+8.0%	-3.1%	+320%	+315%	N/A
Model (Diluted)	+180%	+18.7%	+21.0%	+10.7%	+251%	+251%	N/A
Truck Count vs Mine Model	+207%						
Truck Count vs Blast Hole	-17.2%						

* excluding ramp zone for model comparisons

INVENTORY

	<u>TONNES</u>	<u>%Pb</u>	<u>%Zn</u>	<u>Ag g/t</u>
BROKEN IN PIT:				
Phase A; 3690 AA	15,360	2.34	3.08	28
JB Zone; 3730 GG	0	0	0	0
Ramp Zone; 3910	19,200	1.84	3.09	N/A

				<u>Change</u>
STOCKPILE: C				
*Graphitic	138,979		N/A	(+) 52,424
STOCKPILE: A				
*Non Graphitic	122,744			(+) 55,128
	=====	=====	=====	
Total Inventory:				
Broken	34,560	2.06	3.08	N/A
*Stockpile	261,723			

*Grades not available at this time

Curragh Resources Geology Department
 Primary Crusher Feed
 October 1986

<u>Phase</u>	<u>Truck Count Tonnes</u>	<u>Blast Hole Tonnes</u>	<u>%Pb</u>	<u>%Zn</u>	<u>Ag g/tu</u>
Oxide S.P.	51,516	44,996	3.10	4.75	42
Ramp Zone	3,888	4,608	3.98	4.16	n/a
J.B. & AY	403,868	314,995*	2.80	4.62	40
	=====	=====	=====	=====	=====
Total	459,272	364,599	2.85	4.63	41
Actual (Met. Balance)		398,763	2.84	4.12	40
Variance Blast vs. Met Bal		-8.56%	+0.35%	+12.4%	+2.5

*tonnage reduced by truck count ratio to crusher stockpile
 (see assumption number 6)

CURRAGH RESOURCES GEOLOGY DEPARTMENT

MONTH END, OCTOBER 1986

Month end figures were calculated with the following assumptions:

(1) Blast hole ore density: 3.0 tonnes/BCY

(2) Model Dilution: 10 %

(3) Grade of Dilutant: 0 %

(4) % Variance = (ie)
$$\frac{\text{Blast Hole Tonnes} - \text{Model Tonnes}}{\text{Model Tonnes}}$$

(5) Oxide Tonnes and Grade: Taken from metallurgical balance for oxide run.

(6) Crusher feed tonnage by blast hole assay =
$$\frac{\text{Total Blast Hole Tonnage} \times \text{Truck count SP tonnage}}{\text{Total Truck count tonnage}}$$