

## CURRAGH RESOURCES GEOLOGY DEPARTMENT

MONTH END, DECEMBER 1987

High grade ore this month came from three benches in the Ay phase (3450, 3430 and 3410), the 3590 in the Bz phase and Target "M". Cumulative blast hole calculations are not readily comparable to either the FI or FB701a models. This is attributed to the models being conservative in tonnage estimates near the bottom of the ore body in the Ay phase, at the Faro fault, and the top of the ore body in the Bz phase.

Primary crusher feed includes the five areas mentioned above along with the crusher and low grade "A" stockpiles. A high variance is evident when the blast hole calculations are compared to the metallurgic balance. This discrepancy is partially due to the coarse ore levels at the beginning and end of the month and dilution in all mining areas as follows:

- AY PHASE: -ramping and waste dilution (waste from the Bz phase falling down to the Ay phase, and from the Faro fault).
- BZ PHASE: -Dilution problems encountered in mining the upper contact of the ore body.
- BZ PHASE: -Since the ore is located in the high wall of the pit, dilution is encountered as the ore is pushed off the face to be loaded from below.

Curragh Resources Inc. Geology Department  
 Primary Crusher Feed By Blast Hole Assay  
 December 1 to 31 1987

<u>Phase/S.P.</u>	<u>Tonnes</u>	<u>%Pb</u>	<u>%Zn</u>	<u>%Comb</u>	<u>Ag g/t</u>
BZ 3590	51,611	3.81	5.85	9.66	48
AY 3410	5,333	4.75	5.44	10.19	48
AY 3430	190,938	3.43	4.82	8.25	37
AY 3450	96,571	4.10	5.03	9.13	52
Target M	45,015	2.73	6.06	8.79	23
	=====	=====	=====	=====	=====
Pit Total	389,468	3.58	5.16	8.74	41
To B Stple	17,250				
To Cr Stple	19,255				
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Pit To Crush	352,963				
From C Stple	0				
From A Stple	33,973	2.01	2.65	4.66	27
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TOTAL FEED	386,936	3.45	4.94	8.39	40

Reconciliation

AY Phase/S.P.	386,936	3.45	4.94	8.39	40
Met. Bal.	414,063	3.44	4.62	8.06	43
Forecast	419,000	2.94	4.49	7.43	36
Budget	419,000	3.09	3.94	7.03	46

% Variance

Blast Hole Calc. vs.					
Met. Bal.	-6.55%	0.29%	6.93%	4.09%	-6.98%
Forecast	-7.65%	17.35%	10.02%	12.92%	11.11%
Budget	-7.65%	11.65%	25.38%	19.35%	-13.04%

CURRAGH RESOURCES INC.  
GEOLOGY DEPARTMENT SUMMARY REPORT  
DECEMBER 1987 MONTH END  
(HIGH GRADE)

\*Note: Excludes tonnage from Target M since this area not defined by models

AY Phase	OreTns	%Pb	%Zn	Ag g/t	PbTns	ZnTns	Ag kg
F8701A Model	291,625	3.98	5.85	48	11,607	17,060	13,998
F8701A Diluted	320,788	3.62	5.32	44	11,607	17,060	13,998
FI Model	282,950	3.68	5.60	53	10,413	15,845	14,996
FI Diluted	311,245	3.35	5.09	48	10,413	15,845	14,996
Blast Holes *	344,453	3.70	5.04	43	12,745	17,360	14,811
Truck Count	416,190	excludes 45015 tonnes mined from target M					

% VARIANCE

Blast Hole	OreTns	%Pb	%Zn	Ag g/t	PbTns	ZnTns	Ag kg
vs:							
F8701A Model	18.1%	-7.0%	-13.8%	-10.4%	9.8%	1.8%	5.8%
F8701A Diluted	7.4%	2.3%	-5.2%	-1.5%	9.8%	1.8%	5.8%
FI Model	21.7%	0.5%	-10.0%	-18.9%	22.4%	9.6%	-1.2%
FI Diluted	10.7%	10.6%	-1.0%	-10.8%	22.4%	9.6%	-1.2%
Truck Count							
vs:							
F8701A Diluted	29.7%						
FI Diluted	33.7%						
Blast Holes	20.8%						

INVENTORY

	TONNES	%Pb	%Zn	Ag g/t	Change
BROKEN IN PIT:					
AY 3430	7,111	4.05	6.65	39	
AY 3410	33,022	2.55	3.64	22	
BZ 3590	21,625	4.18	4.66	57	
STOCKPILE A:					
Ramp Zone Ore	6,000	4.57	4.46	n/a	
CRUSHER STOCKPILE:					
AY Ore	43,528	3.73	5.37	38	19,225
Coarse Ore	15,066	3.53	5.27	28	(488)
STOCKPILE B:					
AY Ore	17,250	3.46	4.67	38	17,250
Total Inventory:					
Broken	61,758	3.29	4.34	36	
Stockpile	81,844	3.05	4.17	n/a	

LURRAGH RESOURCES INC.  
GEOLOGY DEPARTMENT MINED RESERVES COMPARISON  
DECEMBER 1987 MONTH END

H I G H   G R A D E

	Blast Holes	Computer Models	
		(F8701A)	(F1)
=====			
Bench: AY 3450			
%Fb	4.10	3.78	3.90
%Zn	5.03	5.40	5.49
%Comb	9.13	9.18	9.39
Ag (g/t)	52	54	67
Tonnes	96,571	83,795	90,250
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Bench: AY 3430			
%Fb	3.43	4.06	3.73
%Zn	4.82	5.97	5.69
%Comb	8.25	10.03	9.42
Ag (g/t)	37	43	48
Tonnes	190,938	172,910	177,500
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Bench: AY 3410			
%Fb	4.75		
%Zn	5.44		
%Comb	10.19		
Ag (g/t)	48		
Tonnes	5,333	0	0
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Bench: BZ 3590			
%Fb	3.81	4.04	1.83
%Zn	5.85	6.37	5.13
%Comb	9.66	10.41	6.96
Ag (g/t)	48	53	26
Tonnes	51,611	34,920	15,200
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Bench: TARGET H			
%Fb	2.73		
%Zn	6.06		
%Comb	8.79		
Ag (g/t)	23		
Tonnes	45,015		
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Month Total			
%Fb	3.58	3.98	3.66
%Zn	5.16	5.85	5.60
%Comb	8.74	9.83	9.28
Ag (g/t)	38.05	47.60	52.86
Total Tonnes	389,468	291,625	282,950
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CURRAGH RESOURCES INC.  
GEOLOGY DEPARTMENT SUMMARY REPORT  
DECEMBER 1987 MONTH END

LOW GRADE

AY 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>
F8701A Model	25,600	1.64	2.98	35	420	763	896
F8701A Diluted	28,160	1.49	2.71	32	420	763	896
FI Model	27,275	1.81	2.68	28	494	731	764
FI Diluted	30,003	1.65	2.44	25	494	731	764
Blast Holes	13,326	2.07	2.68	25	276	357	333
Truck Count	28,115						

<u>Blast Hole</u>	<u>OreTns</u>	<u>%Pb</u>	<u>%Zn</u>	<u>Ag g/t</u>	<u>PbTns</u>	<u>ZnTns</u>	<u>Ag kg</u>
vs:							
F8701A Model	-47.9%	26.2%	-10.1%	-28.6%	-34.3%	-53.2%	-62.8%
F8701A Diluted	-52.7%	38.8%	-1.1%	-21.4%	-34.3%	-53.2%	-62.8%
FI Model	-51.1%	14.4%	0.0%	-10.7%	-44.1%	-51.1%	-56.4%
FI Diluted	-55.6%	25.8%	10.0%	-1.8%	-44.1%	-51.1%	-56.4%
<u>Truck Count</u>							
vs:							
F8701A Diluted	-0.2%						
FI Diluted	-6.3%						
Blast Holes	111.0%						

INVENTORY

	<u>TONNES</u>	<u>%Pb</u>	<u>%Zn</u>	<u>Ag g/t</u>	<u>Change</u>
BROKEN IN PIT:	0				
STOCKPILE A:					
Non-graphitic Ore	367,796	1.99	2.62	27	(20,611)
STOCKPILE C:					
Graphitic Ore	198,020	1.60	3.00	22	0
	=====	=====	=====	=====	
Total Inventory:					
Broken	0				
Stockpile	565,816	1.85	2.75	25	

CURRAGH RESOURCES INC.  
GEOLOGY DEPARTMENT MINED RESERVES COMPARISON  
DECEMBER 1987 MONTH END

L O W   G R A D E

	Blast Holes	Computer Models	
		(FB701A)	(F1)
=====			
Bench: AY 3450			
%Pb	1.87	1.54	1.68
%Zn	3.40	3.01	2.82
%Comb	5.27	4.55	4.50
Ag (g/t)	25	43	36
Tonnes	2,453	12,600	6,275
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Bench: AY 3430			
%Pb	2.19	1.73	1.85
%Zn	2.50	2.95	2.64
%Comb	4.69	4.68	4.49
Ag (g/t)	25	27	25
Tonnes	9,067	13,000	21,000
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Bench: AY 3410			
%Pb			
%Zn			
%Comb			
Ag (g/t)			
Tonnes	0	0	0
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Bench: BZ 3590			
%Pb	1.77		
%Zn	2.60		
%Comb	4.37		
Ag (g/t)	27		
Tonnes	1,806	0	0
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Bench: TARGET M			
%Pb			
%Zn			
%Comb			
Ag (g/t)			
Tonnes	0		
=====			
Month Total			
%Pb	2.07	1.64	1.81
%Zn	2.68	2.98	2.68
%Comb	4.75	4.62	4.49
Ag (g/t)	25	35	28
Total Tonnes	13,326	25,600	27,275
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