

To R. S. Tolber

Copy 9
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019915

From D. S. Jennings

Date 25 November, 1981

Subject Anvil District Tonnage and
Grade Compilation

I attach a recent summary of reserve and grade figures for the five principal Anvil District deposits culled from the sources indicated. Note the reserve figures are adjusted for estimated 1981 specific gravity reductions and dilution where applicable. "Total sulfide resource" is calculated from present plan view length x width x average thickness x s.g. and is only a rough (very) guide to total tonnage of sulfide deposits.



D. S. Jennings

DJS/ck.
Attach.

CYPRUS ANVIL

DEPOSIT	RESERVES (000 Tonnes)	GRADE				SOURCE
		Lead %	Zinc %	Silver g/t	Cutoff %Pb+Zn	
FARO						
Estimated Total Sulfide Resource*	63,500-68,000	n/a	n/a	n/a	n/a	
Geological Reserves Before Mining:	57,583	3.4	5.7	-	5.0	1
Remaining Geological Reserves:	34,156	3.0	4.6	35	4.0	2
Minable Open Pit Reserves:	28,816	2.9	4.4	34	4.0	2
Oxide Stockpile	1,633	2.9	4.7	33	n/a	2
GRUB (62N-66Z only)						
Estimated Total Sulfide Resource:	60,000-90,000	n/a	n/a	n/a	n/a	
Geological Reserves*	30,781	3.1	4.9	49	4.0	3
Minable Open Pit Reserves:	16,875	3.0	4.9	47	4.0	3
YANGORDA (2N-12E only; excludes E. Extension)						
Estimated Total Sulfide Resource	22,000	n/a	n/a	n/a	n/a	4
Geological Reserves:	4,950	3.3	4.3	48	4.0	5
Minable Open Pit Reserves:	4,294	3.3	4.3	47	4.0	5
OT						
Estimated Total Sulfide Resource:	80,000-100,000	n/a	n/a	n/a	n/a	
Geological Reserves	20,267	5.7	7.0	82	9.0	6
	11,049	6.7	8.0	100	12.0	6
SUM						
Estimated Total Sulfide Resource:	8,000	n/a	n/a	n/a	n/a	
Geological Reserves:	4,750	3.8	4.7	42	6.0	7
TOTAL						
Estimated Total Sulfide Resource:	233,500-278,000	n/a	n/a	n/a	n/a	
Geological Reserves - Before Mining:	113,600	3.7	5.7	46	n/a	
- Remaining:	90,150	3.6	5.6	56	n/a	
Minable Open Pit Reserves:	50,000	3.0	4.6	40	4.0	

ALL RESOURCE ESTIMATES CALCULATED FROM IDEALIZED DEPOSIT DIMENSIONS AND REPRESENT TOTAL TONNAGE OF SULFIDE DEPOSITS.

NO REFINED ESTIMATES OF UNDERGROUND GEOLOGICAL RESERVES AVAILABLE.

INFERRED MINIMUM %Pb+Zn USED IN RESERVE CALCULATIONS.

All tonnage figures adjusted for 1981 specific gravity reductions.

All geological and open pit reserves adjusted for dilution.

SOURCES

- 1) Pennebaker, E.W. (1967) Report to Anvil Mining Corp. dated 3 October, 1967 reported in Cyprus Anvil correspondence to J.F. Oik from J.C. Devitt 4 December, 1975.
- 2) Clarke, P.I. (1981) April 1, 1981 Reserve Summary; Cyprus Anvil Mining Corporation in-house report.
- 3) Clarke, P.I. (1981) October 1, 1981 Reserve Summary; Cyprus Anvil Mining Corporation in-house report.
- 4) Chisholm, E.O. (1957) "Geophysical Exploration of a Lead-Zinc Deposit in Yukon Territory" in Methods and Case Histories in Mining Geophysics, 6th Commonwealth Mining and Metallurgical Congress, pp. 269-277.
- 5) Clarke, P.I. (1981) May 1, 1981 Reserve Summary; Cyprus Anvil Mining Corporation in-house report.
- 6) Hall, B.V. (1981) March 1, 1981 Reserve Summary; Cyprus Anvil Mining Corporation in-house report.
- 7) Kavanaugh, P.M. (1966) Ore Reserves Calculations, Swin Lakes "X" Group, Yukon dated 27 December, 1966; Kerr-Addison in-house memorandum.

TABLE 1
ANVIL DISTRICT TONNAGE AND GRADE COMPILATION

Aug., 1985
RST

DEPOSIT	RESERVES (000 Tonnes)	GRADE				SOURCE
		Lead %	Zinc %	Silver g/mt	Cutoff %Pb+Zn	
<u>FARO</u>						
Geological Reserves Before Mining	57,583	3.4	5.7	-	5.0	1
Remaining Geological Reserves	33,000	3.0	4.6	36	4.0	2
Minable Open Pit Reserves	26.4 25,200	2.9	4.3	36	4.0	2
Oxide Stockpile	1,363 1,236	2.9	4.7	33	n/a	2
<u>GRUM (62W-86W only)</u>						
Geological Reserves *	30,781	3.1	4.9	49	4.0	3
Minable Open Pit Reserves	16,875	3.0	4.9	47	4.0	3
<u>VANGORDA</u>						
Geological Reserves (2W-28E)	7,080	3.4	4.3	48	4.0	4
Minable Open Pit Reserves (2W-18E)	5,189	3.4	4.2	47	4.0	4
<u>DY</u>						
Geological Reserves	20,267	5.7	7.0	82	9.0	5
	11,049	6.7	8.0	100	12.0***	5
<u>SWIM</u>						
Geological Reserves	4,750	3.8	4.7	42	6.0**	6
<u>TOTAL</u>						
Geological Reserves - Before Mining	120,461	3.7	5.6	-	n/a	
- Remaining	95,878	3.7	5.2	51	n/a	
Minable Open Pit Reserves	47,264	3.0	4.5	41	4.0	

* NO REFINED ESTIMATES OF UNDERGROUND GEOLOGICAL RESERVES AVAILABLE.

** INFERRED MINIMUM %Pb+Zn USED IN RESERVE CALCULATIONS.

*** FOR GEOLOGICAL RESERVE TOTAL DY 9% CUTOFF RESERVE USED.

All tonnage figures adjusted for 1981 specific gravity reductions.

All geological and open pit reserves adjusted for dilution.

SOURCES

- 1) Pennebaker, E.N. (1967) Report to Anvil Mining Corp. dated 3 October, 1967 reported in Cyprus Anvil correspondence to J.F. Olk from J.C. Devitt 4 December, 1975.
- 2) Purkis, J. (1982) November 19, 1982 Reserve Summary; Cyprus Anvil Mining Corporation in-house report.
- 3) Clarke, P.I. (1981) October 1, 1981 Reserve Summary; Cyprus Anvil Mining Corporation in-house report.
- 4) Tolbert, R.S. (1982) November 19, 1982 Reserve Summary; Cyprus Anvil Mining Corporation in-house report.
- 5) Rollings, R.W. (1982) January 1, 1982 Reserve Summary; Cyprus Anvil Mining Corporation in-house report.
- 6) Kavanaugh, P.M. (1966) Ore Reserves Calculations, Swim Lakes "A" Group, Yukon dated 27 December, 1966; Kerr-Addison in-house memorandum.

Summary of
Zone III HA Phase
Tonnage and Grade Comparison
Benchmarks (3890 - 3670)

019917

Block Model Method (Mintec) Model F3:

<u>Ore Type</u>	<u>Cutoff</u>	<u>Tonnage</u>	<u>Pb %</u>	<u>Zn %</u>	<u>overestimation</u>
2A (Unit 7)	+ 3%	671,000	2.3	3.6	+120%
	+ 4%	533,000	2.4	3.9	+108%
2B-H (Units 8-11)	3%	1,627,000	2.7	4.2	(+11%)
	4%	1,513,000	2.8	4.3	(+3%)
<u>Total</u>	+ 3%	2,298,000	2.6	4.0	+30%
	+ 4%	2,046,000	2.7	4.2	+19%

Planimetered Geologic Bench Plan Method.

Tonnage Variance from Block Model

<u>Ore Type</u>	<u>Cut-off</u>	<u>Tonnage</u>	<u>Pb %</u>	<u>Zn %</u>	
2A (Unit 7)	+ 3%	305,000	1.9	3.7	(-54%)
	+ 4%	256,000	2.0	4.0	(-52%)
2B-H (Units 8-11)	+ 3%	1,468,000	2.9	4.6	(-10%)
	+ 4%	1,462,000	3.0	4.6	(-3%)
<u>Total</u>	+ 3%	1,773,000	2.8	4.4	(-23%)
	+ 4%	1,718,000	2.8	4.5	(-16%)

Block Model Method (Model T3) (Facies control)

<u>Ore Type</u>	<u>Cut-off</u>	<u>Tonnage</u>	<u>Pb %</u>	<u>Zn %</u>	
2A (Unit 7)	+3%	481,000	1.44	2.85	
	+4%	202,000	1.63	3.55	
2B-H (Units 8-11)	+3%	1603			
	+4%	1496			
<u>Total</u>	+3%	2,084,000	2.38	3.97	
	+4%	1,698,000	2.62	4.34	(-17%)

Zn 45us 73 exchange
 126 23us No 7.50

Value of Pb con ± 1% grade no silver.
 ± 10% in Pb.

019918
 1/20 con
 1/20 con

PROJECT: CURRAGH - CYPRUS ANVIL
 SUBJECT: LEAD AND ZINC METALLURGY OF DIFFERENT ORC TYPE (ADJUSTED)

ORE TYPE	LABORATORY RESULTS									BASE METALLURGICAL ESTIMATE								
	LEAD RECOVERY % AT CONC. GRADE OF									LEAD RECOVERY % AT CONC. GRADE OF								
	58	59	60	61	62	63	64	65	66	56	57	58	59	60	61	62	63	64
A	87.5	66.7	66.0	65.0	64.0	63.0	62.0	61.0	60.0	65.5	64.7	64.0	63.0	62.0	61.0	60.0	59.0	58.0
BCD	91.7	92.0	91.5	91.0	90.0	89.5	89.0	88.0	87.0	89.7	89.0	88.5	89.0	88.0	87.5	87.0	86.0	85.5
EC	91.9	91.8	91.4	91.0	90.3	89.8	89.3	88.0	87.0	89.9	89.8	89.4	89.0	88.3	87.8	87.3	86.0	85.5
EF	92.0	91.7	91.2	91.0	90.5	90.0	89.5	88.0	87.0	89.7	89.2	89.0	88.5	88.0	87.5	86.0	85.5	
G	92.0	91.7	91.2	91.0	90.5	90.0	89.5	88.0	87.5	90.0	89.7	89.2	89.0	88.5	88.0	87.5	86.0	85.5
H	84.5	83.3	82.8	81.8	79.0	76.5	74.5	73.3	71.8	82.5	81.3	80.8	79.8	77.0	74.5	72.5	71.3	69.8

LAB. RESULT = BASE + 2% (ON GR AND REC.) DUE TO CHARGER GRIND

ORE TYPE	LABORATORY RESULTS									BASE METALLURGICAL ESTIMATE								
	ZINC RECOVERY % AT CONC. GRADE OF									ZINC RECOVERY % AT CONC. GRADE OF								
	48	49	50	51	52	53	54	55	56	46	47	48	49	50	51	52	53	54
A	94.5	94.0	93.5	93.0	92.5	92.0	90.0	88.5	86.0	92.5	92.0	91.5	91.0	90.5	90.0	88.0	86.5	84.0
BCD	94.5	94.0	93.5	93.0	92.5	92.0	91.5	90.5	89.0	92.5	92.0	91.5	91.0	90.5	90.0	89.5	88.5	87.0
EC	91.8	91.3	90.8	90.3	89.8	89.3	88.5	87.3	85.8	89.8	89.3	88.8	88.3	87.8	87.3	86.5	85.3	83.8
EF	88.0	88.0	88.0	87.5	87.0	86.5	85.5	84.0	82.5	87.0	86.5	86.0	85.5	85.0	84.5	83.5	82.0	80.5
G	89.0	88.5	88.0	87.5	87.0	86.5	85.5	84.0	82.5	87.0	85.5	86.0	85.5	85.0	84.5	83.5	82.0	80.5
H	82.2	82.0	81.0	80.0	79.0	78.0	77.0	76.0	74.5	80.2	80.0	79.0	78.0	77.0	76.0	75.0	74.0	72.5

ASSUMPTION: MET OF
 BCD = CD
 EC = Av. OF CD AND EF
 G = EF
 H - REC & GR CURVE SIMILAR TO EF

ABOVE ARE WEIGHED AVERAGES OF
 1 LOCKED CYCLE TEST CARRIED OUT BY
 KRAL AND 5 TESTS BY CYPRUS
 ANVIL

Metallurgy used for CIT
 P.F. Fimodil Dec. 85

PHASE	CUTOFF	Tonnes	Pb	Zn	Ag	Au	Cu	Total	019919
NA	3.5	1,510,000	2.85	4.79	40.35	.18	.17	24.6	
	4.0								
NA	4.0	1,451,000	2.91	4.88	40.89	.18	.18	25.1	
OA	3.5	1,516,000	2.85	4.35	36.45	.21	.20	29.97	
OA	4.0	1,441,000	2.92	4.47	37.06	.21	.20	29.99	
PA	3.5	1,134,000	2.60	4.24	32.40	.20	.19	30.28	
PA	4.0	1,048,000	2.67	4.41	32.69	.20	.19	30.05	
UB	3.5	1,134,000	2.92	4.22	32.81	.16	.17	32.08	
UB	4.0	1,034,000	3.06	4.41	33.86	.16	.17	32.11	

4% CUTOFF

PHASE	WASTE		ORE TONS	ORE GRADE			CONTAINED METAL			STRIPPING RATIO
	BCY	TONS		Pb (%)	Zn (%)	Ag (g/t)	Pb (TONS)	Zn (TONS)	Ag (KGS)	
NA	7,073,000	16,447,000	2,105,000	2.7	4.2	40.3	56,835	88,410	84,832	7.8
OA	3,678,000	8,601,000	1,358,000	2.6	3.8	33.7	35,308	51,604	45,765	6.3
PA	3,190,000	7,475,000	1,355,000	2.9	4.7	34.8	39,295	63,685	47,154	5.5
7D	5,846,000	13,786,000	2,047,000	3.0	4.9	33.4	61,410	100,303	68,370	6.7
UB	8,601,000	20,432,000	5,971,000	2.9	4.2	35.6	173,159	250,782	212,568	3.4
WA	14,448,000	33,585,000	10,815,000	3.4	4.8	43.2	367,710	519,120	467,208	3.1
YA	2,623,000	6,131,000	5,388,000	2.8	4.6	32.9	150,864	247,848	177,265	1.1
	45,459,000	106,457,000	29,039,000	3.0	4.6	38.0	884,581	1,321,752	1,103,161	3.7

6% CUTOFF

PHASE	WASTE		ORE TONS	ORE GRADE			CONTAINED METAL			STRIPPING RATIO
	BCY	TONS		Pb (%)	Zn (%)	Ag (g/t)	Pb (TONS)	Zn (TONS)	Ag (KGS)	
NA	7,378,000	17,298,000	1,254,000	3.3	5.0	44.8	41,382	62,700	56,179	13.8
OA	3,861,000	9,209,000	750,000	2.9	4.5	36.3	21,750	33,750	27,225	12.3
PA	3,328,000	7,913,000	916,000	3.4	5.5	39.2	31,144	50,380	35,907	8.6
7D	6,016,000	14,322,000	1,511,000	3.4	5.4	37.9	51,374	81,594	57,267	9.5
UB	9,378,000	22,937,000	3,466,000	3.5	5.1	41.4	121,310	176,766	143,492	6.6
WA	14,989,000	35,297,000	9,104,000	3.6	5.1	45.3	327,744	464,304	412,411	3.9
YA	3,152,000	7,657,000	3,861,000	3.2	5.2	35.1	123,552	200,772	135,521	2.0
	48,102,000	114,633,000	20,862,000	3.4	5.1	41.6	718,256	1,070,266	868,003	5.5

NOTE: -STRIPPING RATIO = TONS WASTE / TONS ORE

-ALL VALUES SHOWN FOR THE 4% AND 6% CUTOFFS ARE BASED ON THE FULL FARO F3 MODEL. NO ADJUSTMENTS HAVE BEEN MADE FOR MINED OUT AREAS.

019920

Telecopied June 24 1985
to R. USA GIE

PHASE	FARO MODEL RESERVES			T3					
	SDT		F3 Pb%	Zn%	Ag %mt	SDT	Pb%	Zn%	Ag %mt.
IB	460,300		3.4	4.9	47.8	397,900 u* (19,900)	3.7	5.7	50.6
A	4,255,000		3.6	5.4	43.1	4,043,400 u (94,800)	3.6	5.4	41.9
B	5,733,500		3.6	5.1	44.3	5,654,400 u (48,300)	3.7	5.1	44.9
C	5,174,700		3.4	4.9	42.8	4,550,100 u (179,000)	3.6	5.0	44.0
D	4,709,400		3.1	5.2	36.2	4,510,300 u (278,000)	3.2	5.3	36.5
	20,332,900		3.43	5.13	41.87	19,156,100	3.54	5.20	42.19

	F3	T3	Variance % $(\frac{F3-T3}{T3} \times 100)$
Pb (Tons)	697,418	678,125	-2.7
Zn (tons)	1,043,077	996,117	-4.5
Ag (kgs)	772,329	733,190	-5.0

u* (620,000)

u* = unknown grade.

T3

A, B, C, D, J3

Unknown

	TONS	#1	#2	#3
1	19156100	3.54	5.20	42.19
2	19900			
3	94800			
4	48300			
5	179000			
6	278000			
7				
	19776100.0	3.43	5.04	40.87

CYPRUS ANVIL
WEIGHT AVERAGING
PROGRAM

ANY CHANGES (Y/N) N

DO YOU WISH
TO CONTINUE (Y/N)

Phase

JB
A
B
C
D

T3

	TONS	#1	#2	#3
1	397900	3.7	5.7	50.6
2	4043400	3.6	5.4	41.9
3	5654400	3.7	5.1	44.9
4	4550100			
5	4510300	3.2	5.3	36.5
6				
	19156100.0	3.54	5.20	42.19

CYPRUS ANVIL
WEIGHT AVERAGING
PROGRAM

ANY CHANGES (Y/N) N

DO YOU WISH
TO CONTINUE (Y/N)

GEOLOGICAL RESERVES

F4 MODEL (124-133) + DOME 'HANDCANK' (134-135 o.p. only)

	TONS	Pb	Zn	Ag
1	13449723	3.2	5.0	41.4
2	62887	2.95	4.96	40.78
3	104633	5.32	5.30	88.82
4	64826	4.23	4.81	64.02
5	56805	3.41	3.46	58.87
6				
	13738874.0	3.2	5.0	41.9

DO YOU WISH
TO CONTINUE (Y/N)

CYPRUS ANVIL
WEIGHT AVERAGING
PROGRAM

ANY CHANGES (Y/N) N

F3 Model Ore Reserves 78 cut-off.

		TONS	#1	#2	#3
NA	1	888637	3.6	5.4	46.2
OA	2	436521	3.2	4.9	39.1
PA	3	683338	3.6	6.0	43.0
TD	4	1296997	3.6	5.6	40.4
UB	5	2514412	3.8	5.5	45.3
WA	6	7389205	3.8	5.4	47.2
YA	7	2992247	3.5	5.5	36.7
	8				
		16201357.0	3.69	5.46	43.97

CYPRUS ANVIL
WEIGHT AVERAGING
PROGRAM

ANY CHANGES(Y/N)

DO YOU WISH
TO CONTINUE(Y/N)

Minable Reserves in Phases
between Section 124 - 134 (F4 MODEL)

		TONS	Pb	Zn	Ag
NA	1	1450877	2.91	4.88	40.88
OA	2	1440654	2.916	4.46	37.06
PA	3	1048173	2.67	4.41	32.68
OB	4	1033753	3.06	4.41	33.85
WA	5	4525685	3.37	5.18	44.22
YA	6	481315	3.17	5.15	46.58
	7				
		9980457.0	3.1	4.9	40.5

DO YOU WISH
TO CONTINUE (Y/N)

CYPRUS ANVIL
WEIGHT AVERAGING
PROGRAM

ANY CHANGES (Y/N) N

SE Ramp Zone III

019921

A B C D :

	TONNES	Pb	Zn	As
2A	75 329	2.14	3.59	31.4
2EFGH (T)	75 213	6.38	5.75	107.6
2G	47 435	4.53	5.39	69.2
2BCD	12 218	2.56	3.38	43.1

EFGH :

Proven	210,195	4.22	4.76	67.9
2EFGH	31 187	6.56	5.41	114.2
2G	4997	5.05	5.62	75.0
2BCD	2875	2.67	3.56	44.7
2A	50 553	2.19	3.31	34.1
Possible	89,652	3.88	4.18	64.58
Prove & Possible	299,847	4.12	4.59	66.91

OK

April '84
28

	BLOCK	OI	COMPOSITES USED IN BLOCK
T3	2A	11	11 12 13 14 15 17 18
	2AC	13	12 13 14 31 41
	2AD	14	12 13 14 31 41
	2AE	15	11 15 17 18 51
	2B	22	22 24 32 42
T3	2BCD	23	22 23 24 31 32 33 34 42 43 44
	2BD	24	22 23 24 32 34 42 43 44
	2C5	31	31 13
	2BC	32	22 23 24 32 33 34 43
	2CO	33	13 22 23 24 31 32 33 34 43
	2CD	34	22 23 24 32 33 34 42 43 44
T3	2CE	35	35 38 45 48
	2DO	44	22 24 34 41 42 43 44 45 47 48
	2EO	55	51 53 54 55
T3	2EF	56	51 53 54 55 56 57 58 64 66
	2EG	57	17 37 47 56 57 73 75 77 78 87
	2EH	58	18 38 48 56 58 83 85 87 88
T3	2G	77	17 37 47 57 73 75 77 78 87
T3	2H	88	18 38 48 58 78 83 85 87 88
	2BE	25	35 45
	2CG	37	37 47 73
	2F	66	54 55 56 57 58 64 66

22

FI MODEL 1ST PASS INTERPOLATION TABLE

019922

COMPOSITE		BLOCKS USED IN						
2H	88						58	88
2HG	87						57 58 77	88
2HE	85						58	88
2HC	83						58	88
2GH	78						57	77 88
2G	77						57	77
2GE	75						57	77
2GC	73				37		57	77
2F	66						56	66
2FD	64						56	66
2E H	58						56	58 66 88
2EG	57						56 57	66 77
2EF	56						56 57 58 66	
2E	55						55 56	66
2ED	54						55 56	66
2EC	53						55 56	
2EA	51		15				55 56	
2DH	48					35 44	58	88
2DG	47					37 44	57	77
2DE	45			25		35 44		
2D	44			23 24		34 44		
2DC	43			23 24	32 33 34	44		
2DB	42			22 23 24		34 44		
2DA	41		13 14			44		
2CH	38					35	58	88
2CG	37					37	57	77
2CE	35			25		35		
2CD	34			23 24	32 33 34	44		
2C	33			23	32 33 34			
2CB	32			22 23 24	32 33 34			
2CA	31		13 14	23	31 33			
2BD	24			22 23 24	32 33 34	44		
2BCD	23			23 24	32 33 34			
2B	22			22 23 24	32 33 34	44		
2AH	18	11	15				58	88
2AG	17	11	15				57	77
2AE	15	11	15					
2AD	14	11 13 14						
2AC	13	11 13 14		31	33			
2AB	12	11 13 14						
2A	11	11	15					

Pb .15 US
 Zn .28 US
 Ag 6.00 US

019923

Profit = 5.00 can/tonne ore.

Pb_{con} = 61% milling = 1.25 can/t
 Zn_{con} = 51% milling = 12.58 can/t

CUTOFF

-5% to FI model grades

EXCHANGE	4.0	5.0	6.0	7.0	8.0
1.30	-14.99	-14.83	-14.60	-14.39	-14.07
1.35	-13.37	-13.10	-12.75	-12.43	-11.98
1.40	-11.75	-11.38	-10.91	-10.47	-9.89
1.45	-10.13	-9.66	-9.06	-8.51	-7.81
1.50	-8.51	-7.94	-7.22	-6.55	-5.72
1.55	-6.89	-6.22	-5.37	-4.59	-3.63
1.60	-5.27	-4.50	-3.52	-2.63	-1.54
1.65	-3.65	-2.78	-1.68	-0.66	+0.55
1.70	-2.03	-1.05	+0.17	+1.30	+2.64
1.75	-0.41	+0.67	+2.01	+3.26	+4.73
1.80	+1.21	+2.39	+3.86	+5.22	+6.81

as above but Pb_{con} = 62%
 Zn_{con} = 52%

1.30	-14.24	-14.02	-13.73	-13.48	-13.10
1.35	-12.63	-12.32	-11.90	-11.53	-11.03
1.40	-11.02	-10.61	-10.07	-9.59	-8.96
1.45	-9.42	-8.90	-8.25	-7.64	-6.88
1.50	-7.81	-7.19	-6.42	-5.70	-4.81
1.55	-6.20	-5.49	-4.59	-3.75	-2.74
1.60	-4.60	-3.78	-2.76	-1.81	-0.67
1.65	-2.99	-2.07	-0.93	+0.14	+1.40
1.70	-1.38	-0.36	+0.90	+2.08	+3.47
1.75	+0.22	+1.34	+2.73	+4.03	+5.54
1.80	+1.83	+3.05	+4.56	+5.97	+7.61