

Selected part

4 Debra Paulin Sample - July 90

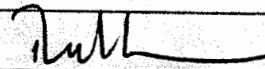
CURRAGH RESOURCES INC.

007222

METALLURGICAL LABORATORY

LAB FLOTATION TEST ON VANGORDA ORE
COMPOSITE # 2

AUG. 1990



DUMITRU TULLIU

SENIOR METALLURGIST

Cyprus Anvil Mining Corporation

METALLURGICAL TEST REPORT

Grade-Recovery Curve

Test No.: VANGORDA ORE

Date: AUG. 1990

Objective: FLOTATION TEST

Key: _____

Reagents: _____

VANGORDA ORE - FLOTATION TEST DATA

I ORE TYPE = COMPOSITE # 2 - BARITIC / MINOR SULPHIDE

THIS ORE TYPE WILL BE TYPICAL FEED TO MILL,
AND REPRESENTS APPROX. 75% FROM VANGORDA
DEPOSIT.

II CHEMICAL ASSAY

Pb = 3.84 %

Zn = 5.39 %

Pb+Zn = 9.23 %

Fe = 25.30 %

Cu = 0.33 %

Ag = 60 g/t

30 ?

III MINERALOGICAL COMPOSITION

		%	
GALZENA	PbS	4.41	
SPHALERITE	[Zn Fe]S	9.32 - 8.03	
PYRITE + PYROTITE	FeS ₂ + Fe ₁₁ S ₁₂	50.49	
CALCOPYRITE	Cu Fe S ₂	0.95	
SULPHIDE TOTAL		65.17	
NON-SULPHIDE MINERAL		34.83	? mainly BaSO ₄
TOTAL		100.00	

Recovery %

Cyprus Anvil Mining Corporation
METALLURGICAL TEST REPORT

Grade-Recovery Curve

Test No.: _____

Date: _____

Objective: _____

Key: _____

Reagents: _____

<u>IV.</u>	<u>NATURAL ORE PH</u>		
	COMPOSITE # 2	pH = 6.9	
	H ₂ O	pH = 7.58	
<u>V.</u>	<u>GRINDING</u>		
	GRINDING TIME = 20 MINUTES		
	FEED = 2 Kg OF MINUS 10 MESH (-1.5 mm)		
	GRINDING MEDIA AND CHARGE = ROOLS, 17 Kg		
	WATER = 800 cm ³		
	RATIO WATER/ORE = 0.4/1 [LIQUID/SOLID] / OR 65% SOLIDS		
<u>V.1</u>	<u>GRINDING SIZE DISTRIBUTION [FINENESS OF GRIND]</u>		
	SIZE, #	% REST	% PASSING
	+ 200 (75)	4.66	95.34
	+ 350	24.85	75.15
	- 350 (39)	70.49	70.49
	200 # = 0.074 μ		
	350 # = 0.043 μ		

Recovery %

Cyprus Anvil Mining Corporation
METALLURGICAL TEST REPORT

Grade-Recovery Curve

Test No.: _____

Date: _____

Objective: _____

Key: _____

Reagents: _____

Grade %

<u>VI</u>	<u>FLOTATION TEST</u>
<u>VI-1</u>	<u>ROUGHER / SCAVANGER FLOTATION TEST</u>
T # 1	STANDARD FLOT. TEST [FARO SCHEME REAGENTS] XANTHATE 343 FOR Pb & Zn FLOT.
T # 2	AEROPHINE 34184 REAGENTS SCHEME FOR Pb FLOT ; PAX FOR Zn FLOT.
T # 3	STANDARD FLOT. TEST [T#1], BUT 50% XANTHATE ADDITION
T # 5	STANDARD FLOT. TEST [AS T#1] BUT 25% XANTHATE ADDITION.
T # 4	REPEAT TEST #2, BUT 45% SOLIDS IN PULP. [CELL=2.5L, 1200 RPM]
T # 7	REPEAT TEST #2, BUT 45% SOLIDS IN PULP [CELL 2.5L, 1500 RPM]
T # 6	REPEAT TEST #2, BUT USED NACIN + SD200 INSTEAD OF NACH
THE TEST RESULTS ARE SHOWN IN TABLE 1-7 AND GRAPHS 1-2.	

Recovery %

Cyprus Anvil Mining Corporation
METALLURGICAL TEST REPORT

Grade-Recovery Curve

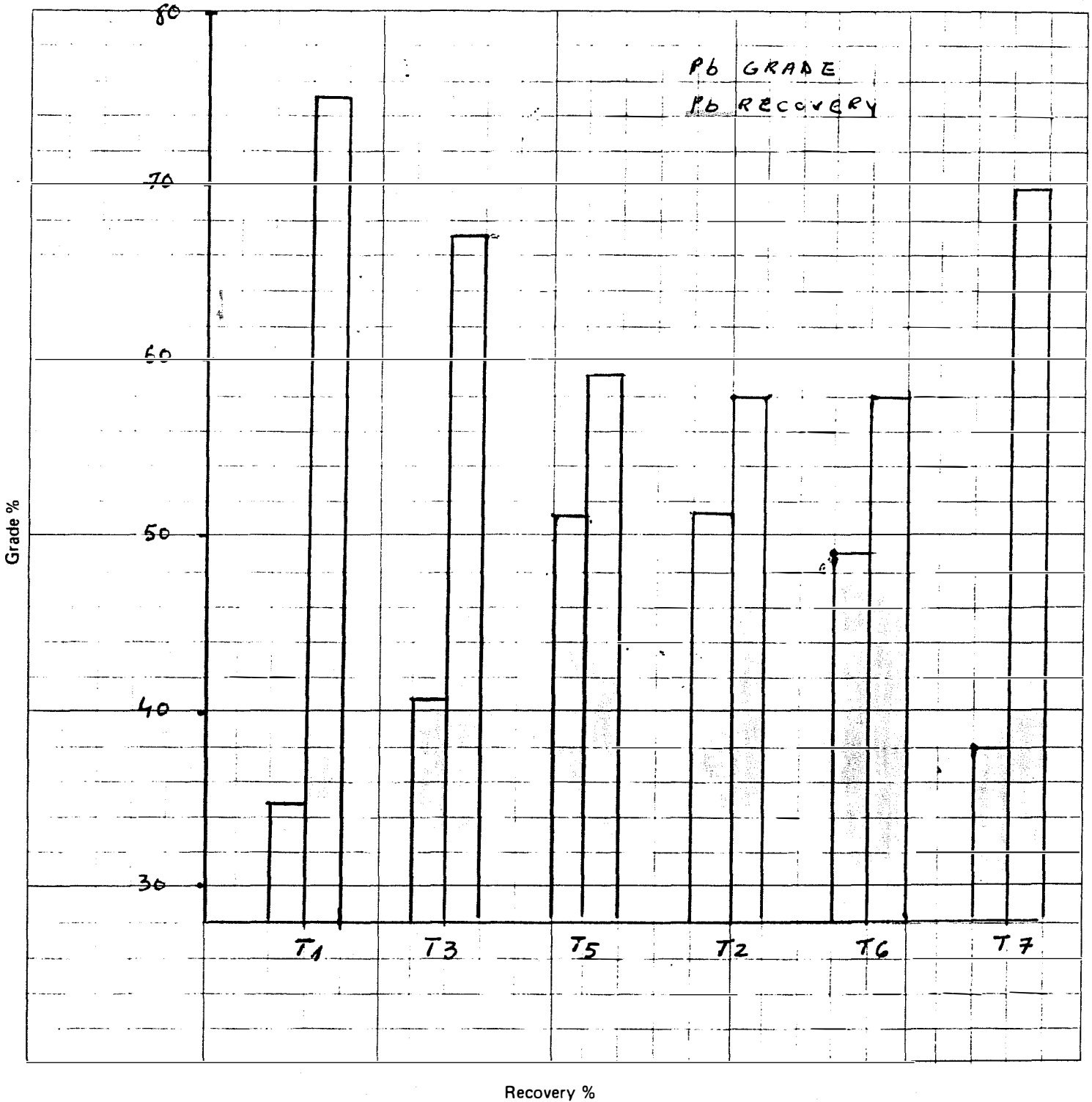
Test No.: VANGORUA ORE

Date: _____

Objective: COMPOSITE # 2

Key: _____

Reagents: Pb-ROUGHER FLOTATION

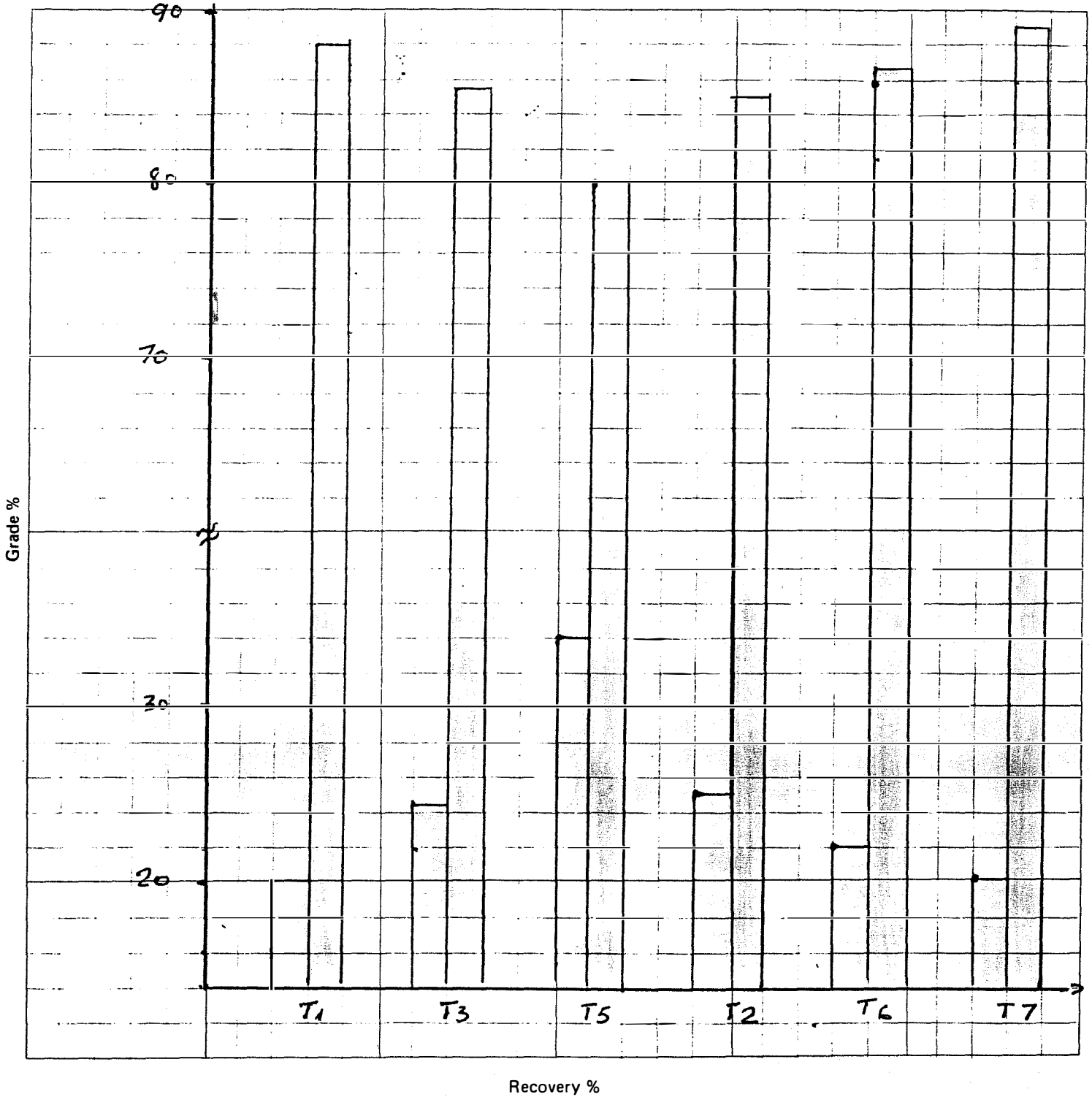


Cyprus Anvil Mining Corporation
METALLURGICAL TEST REPORT

Grade-Recovery Curve

Test No.: VANGORUA ORE
Objective: COMPOSITE # 2
Reagents: Pb-RGH & SCHV. FLOT.

Date: _____
Key: _____



Cyprus Anvil Mining Corporation
METALLURGICAL TEST REPORT

Grade-Recovery Curve

Test No.: MINERALOGICAL COMP. Date: _____
 Objective: Pb- ROUGHER CONC. Key: _____
 Reagents: _____

MINERALOGICAL COMPOSITION
Pb- ROUGHER CONCENTRATE

TEST #	GALENA	SPHALERITE	Cu Fe S ₂ + FeS + FeS ₁₂	SULPHIDE TOTAL	NON-SULPHIDE MINERALS
	%	%	%	%	%
T1	39.44	17.64	36.82	93.9	6.18
T2	59.22	16.17	15.51	90.9	9.10
T3	46.80	17.30	29.80	93.9	6.10
T4	39.10	19.03	26.27	84.4	15.4
T5	58.65	16.08	15.27	90.0	10.0
T6	56.46	16.95	15.59	89.3	10.7
T7	43.70	19.20	23.20	86.10	13.9
HEAD FEED	4.41	9.32	51.44	65.17	34.83
$PbS = Pb\% \times 1.153$ $CuFeS_2 = Cu\% \times 2.887$ $ZnS = Zn\% \times 1.733$ $SULPHIDE\ TOTAL = [1.153 Pb + 1.733 Zn] + 2.14 [Fe - 0.155 Zn] + 2.89 Cu$ $NON-SULPHIDE = 100 - SULPHIDE\ TOTAL$					

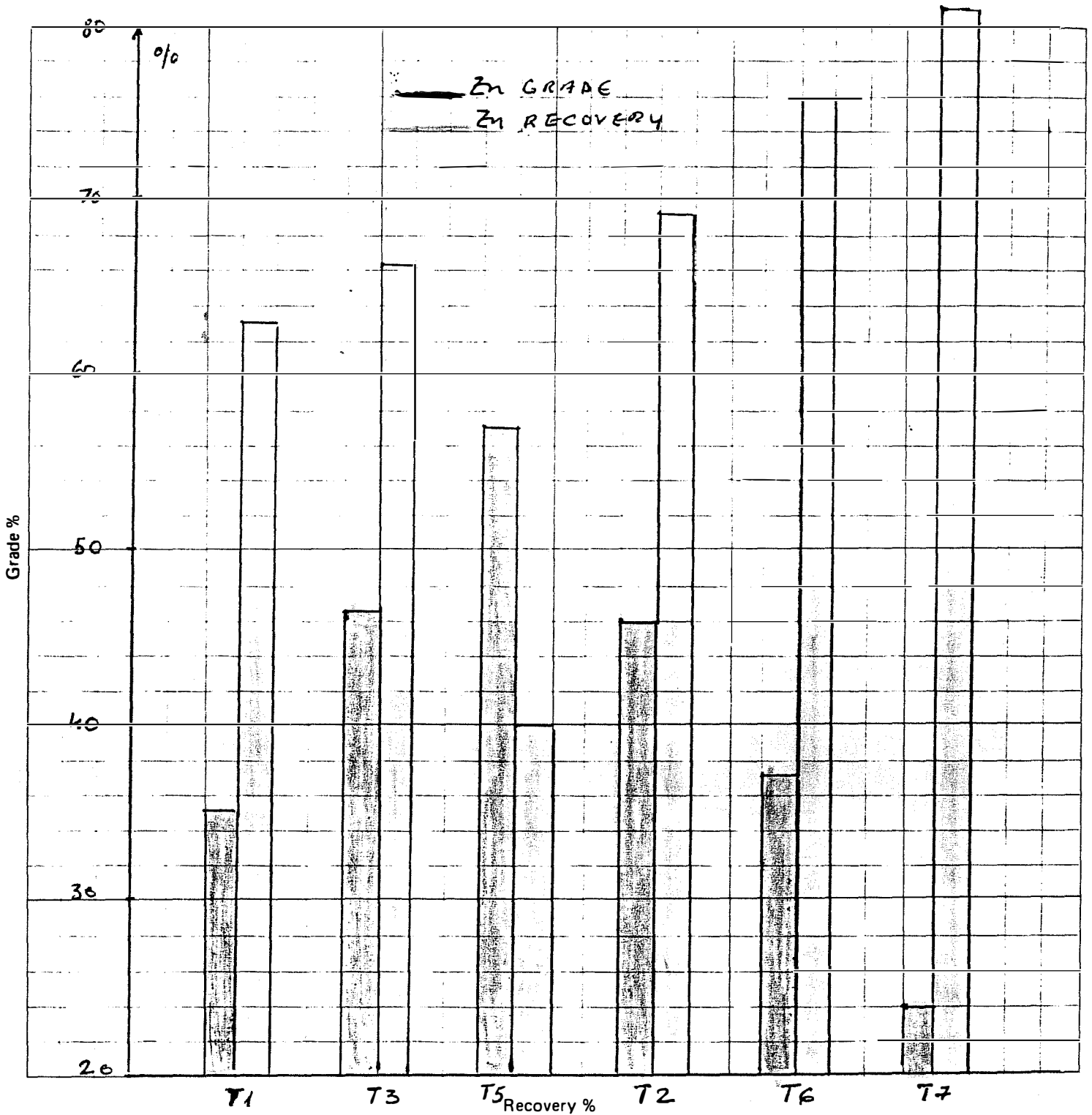
Recovery %

Cyprus Anvil Mining Corporation
METALLURGICAL TEST REPORT

Grade-Recovery Curve

Test No.: VANGORDA ORE
Objective: COMPOSITE # 2
Reagents: Zn-ROUGHER FLOTATION

Date: _____
Key: _____



Cyprus Anvil Mining Corporation
METALLURGICAL TEST REPORT

Grade-Recovery Curve

Test No.: MINERALOGICAL COMP.

Date: _____

Objective: VANGOROA - COM #2

Key: _____

Reagents: ZINC RGH. CONC.

<u>MINERALOGICAL COMPOSITION</u> <u>Zn - ROUGHER CONCENTRATE</u>					
TEST #	SPHALERITE %	GALENA %	Cu Fe S ₂ + FeS + Fe ₃ Si ₂ %	SULPHIDE TOTAL %	NON-SULPHIDE MINERAL %
T 1	52.3	0.69	28.61	81.6	18.4
T 2	68.84	0.97	19.19	89.0	11.0
T 3	69.28	0.96	19.06	89.3	10.7
T 4	39.63	0.45	38.12	78.2	21.8
T 5	85.52	1.38	8.80	95.7	4.3
T 6	55.28	1.81	26.91	84.0	16
T 7	34.72	0.92	40.06	75.7	24.3
HEAD FEED	8.03	4.41	52.73	65.17	34.83
SPHALERITE = Zn x 1.49 [Zn, Fe]S					

Grade %

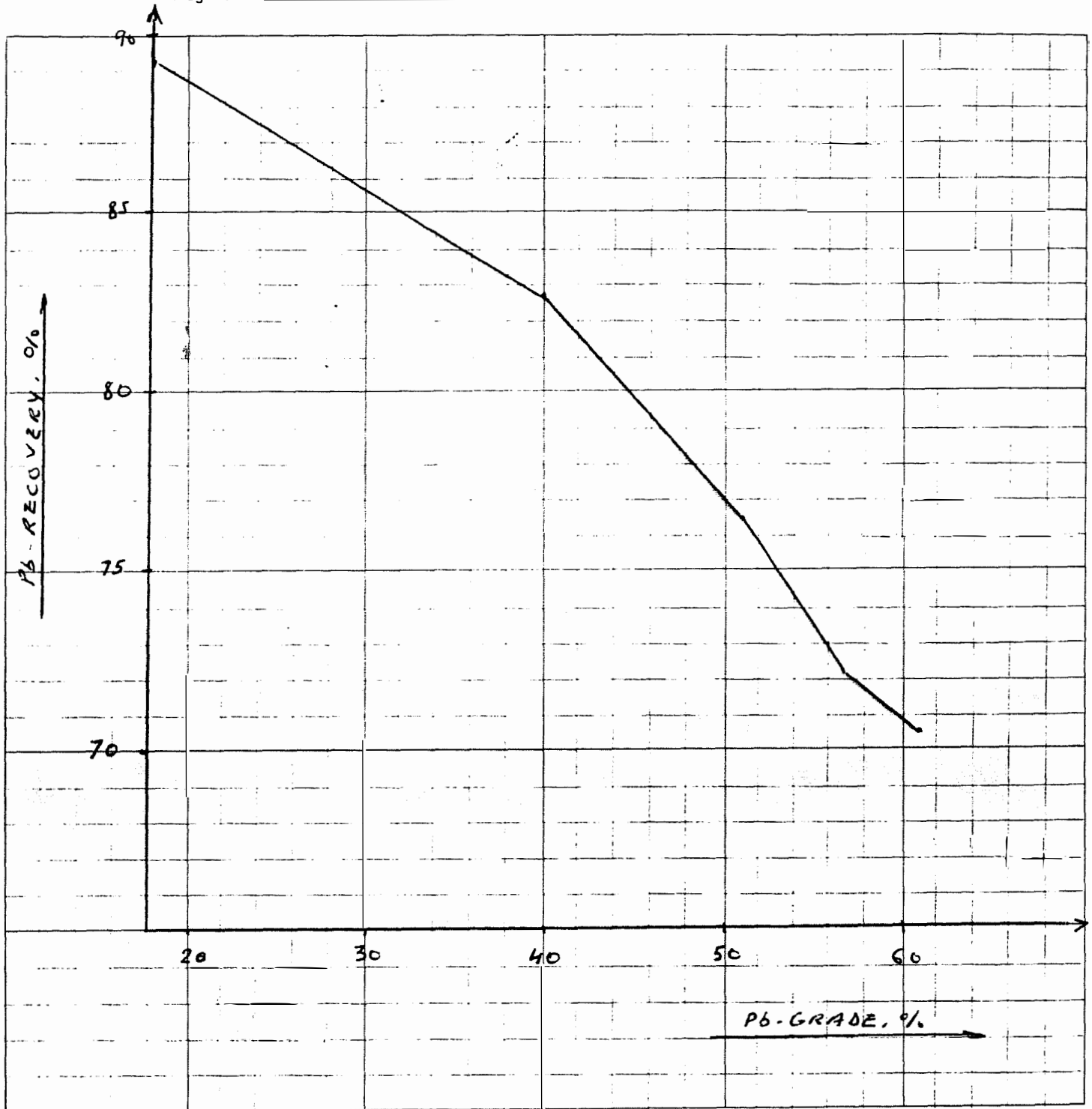
Recovery %

Cyprus Anvil Mining Corporation
METALLURGICAL TEST REPORT

Grade-Recovery Curve

Test No.: T# 9
Objective: Pb-CLEANER FLOT. TEST
Reagents: XANTHATES.

Date: _____
Key: _____



Cyprus Anvil Mining Corporation
METALLURGICAL TEST REPORT

Grade-Recovery Curve

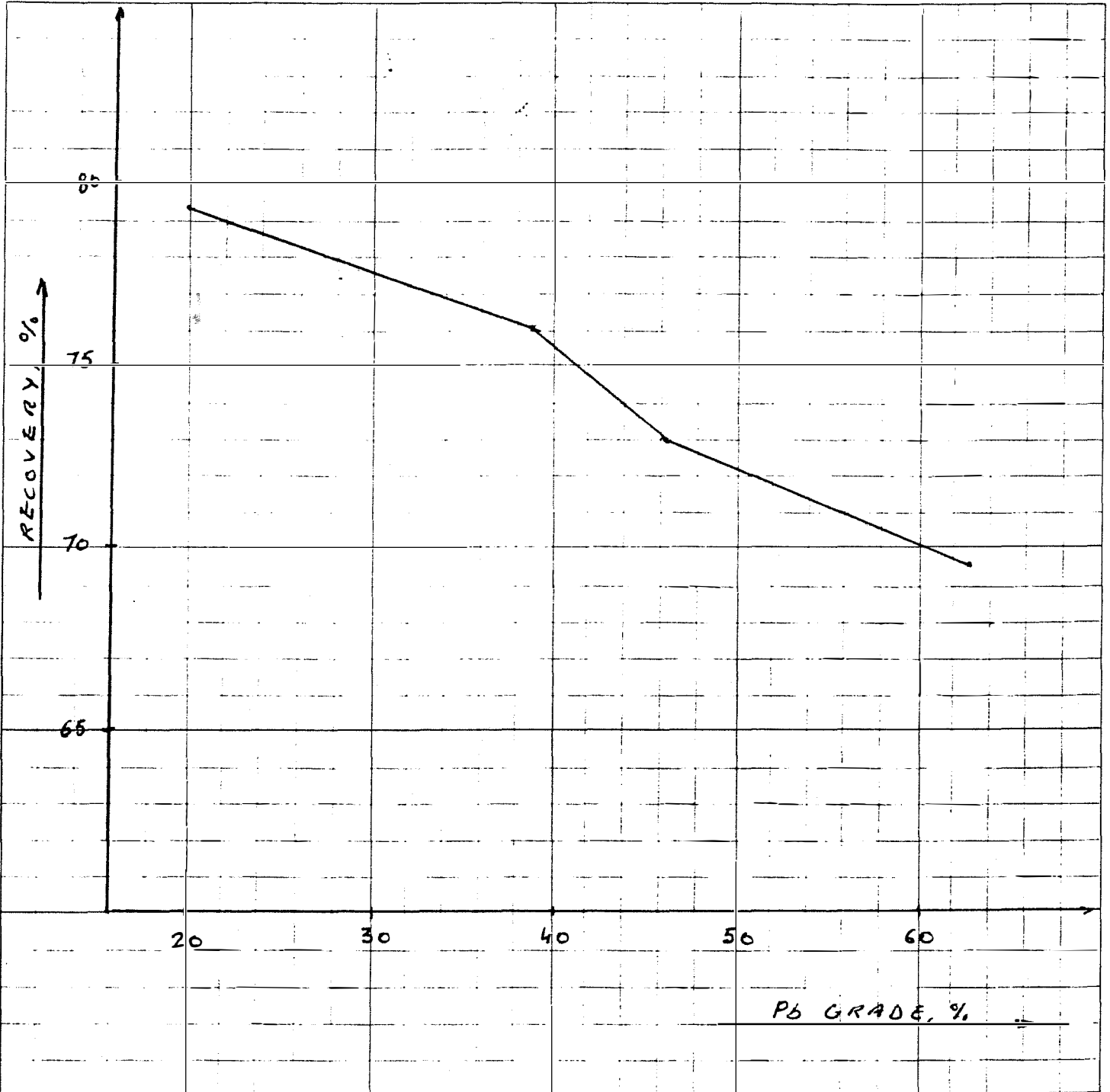
Test No.: T # 10

Date: _____

Objective: Pb - CLEANER FLOT. TEST

Key: _____

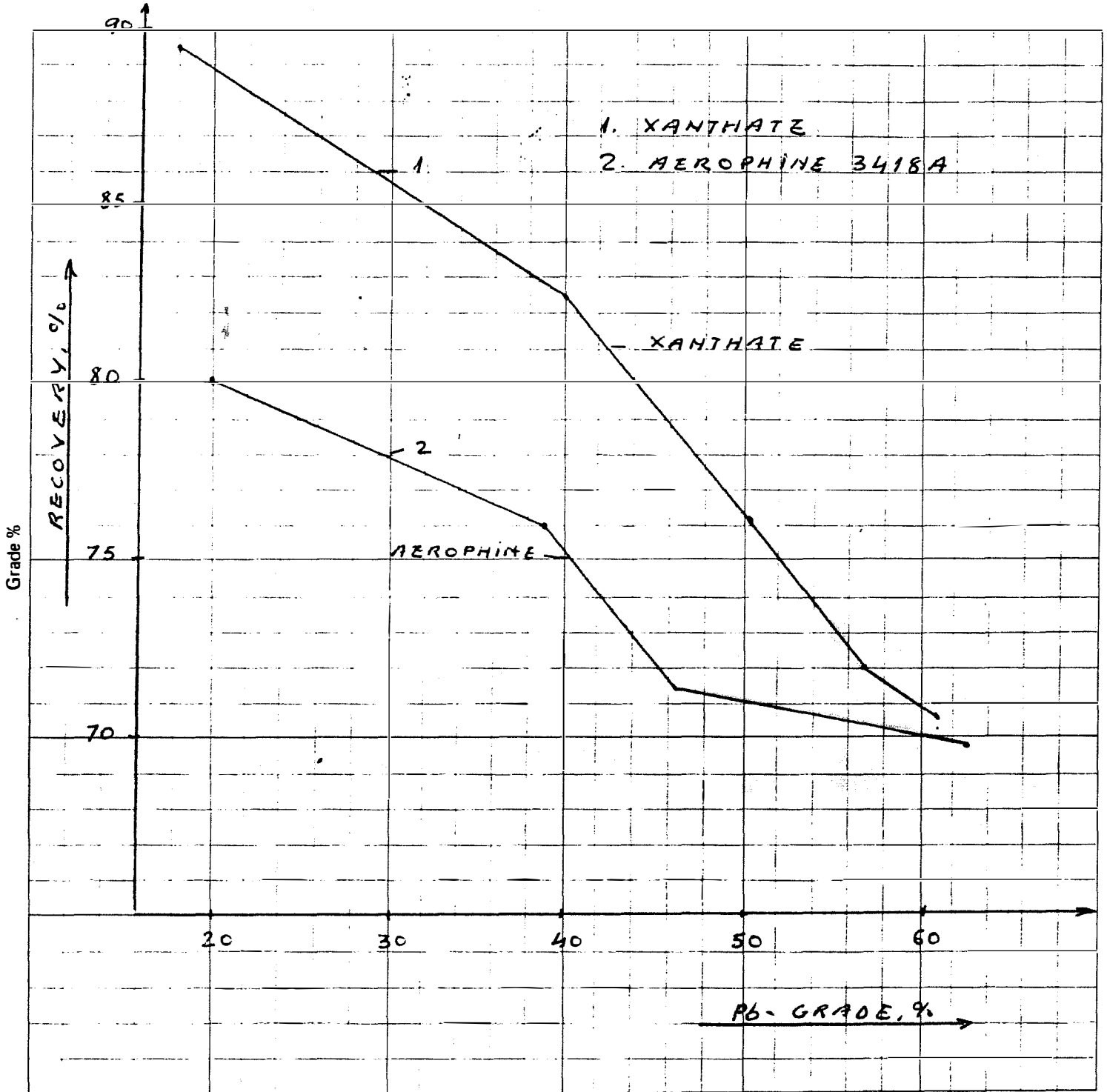
Reagents: AEROPHINE 3418A



Cyprus Anvil Mining Corporation
METALLURGICAL TEST REPORT

Grade-Recovery Curve

Test No.: _____ Date: _____
Objective: Pb-CLEANER FLOT. TEST Key: _____
Reagents: XANTHATES VS AEROPHINE _____



Recovery %

Cyprus Anvil Mining Corporation
METALLURGICAL TEST REPORT

Grade-Recovery Curve

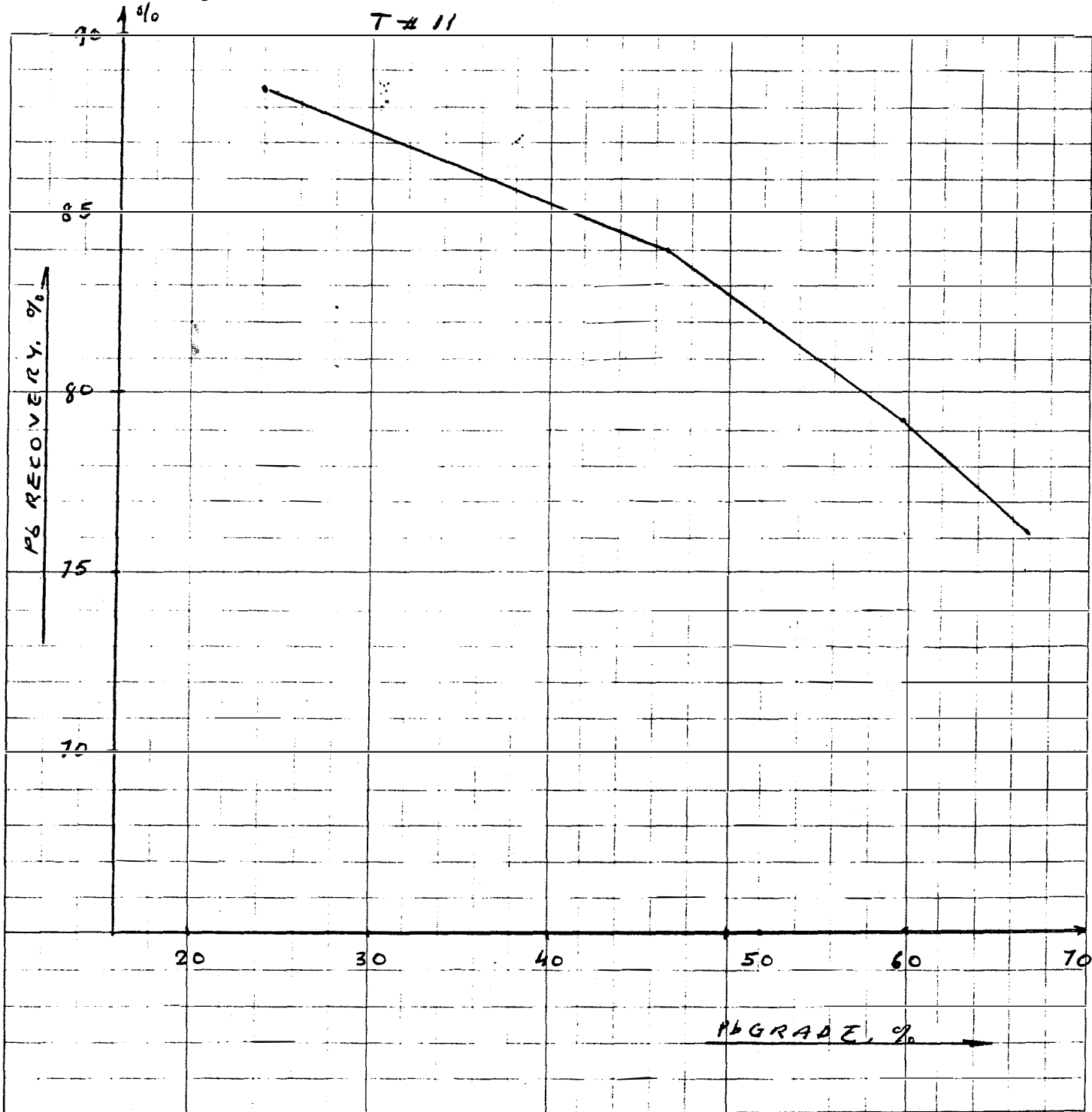
Test No.: VANGORA 50% + FARO 50%

Date: _____

Objective: CLEAHER FLOT. TEST

Key: _____

Reagents: XANTHATE

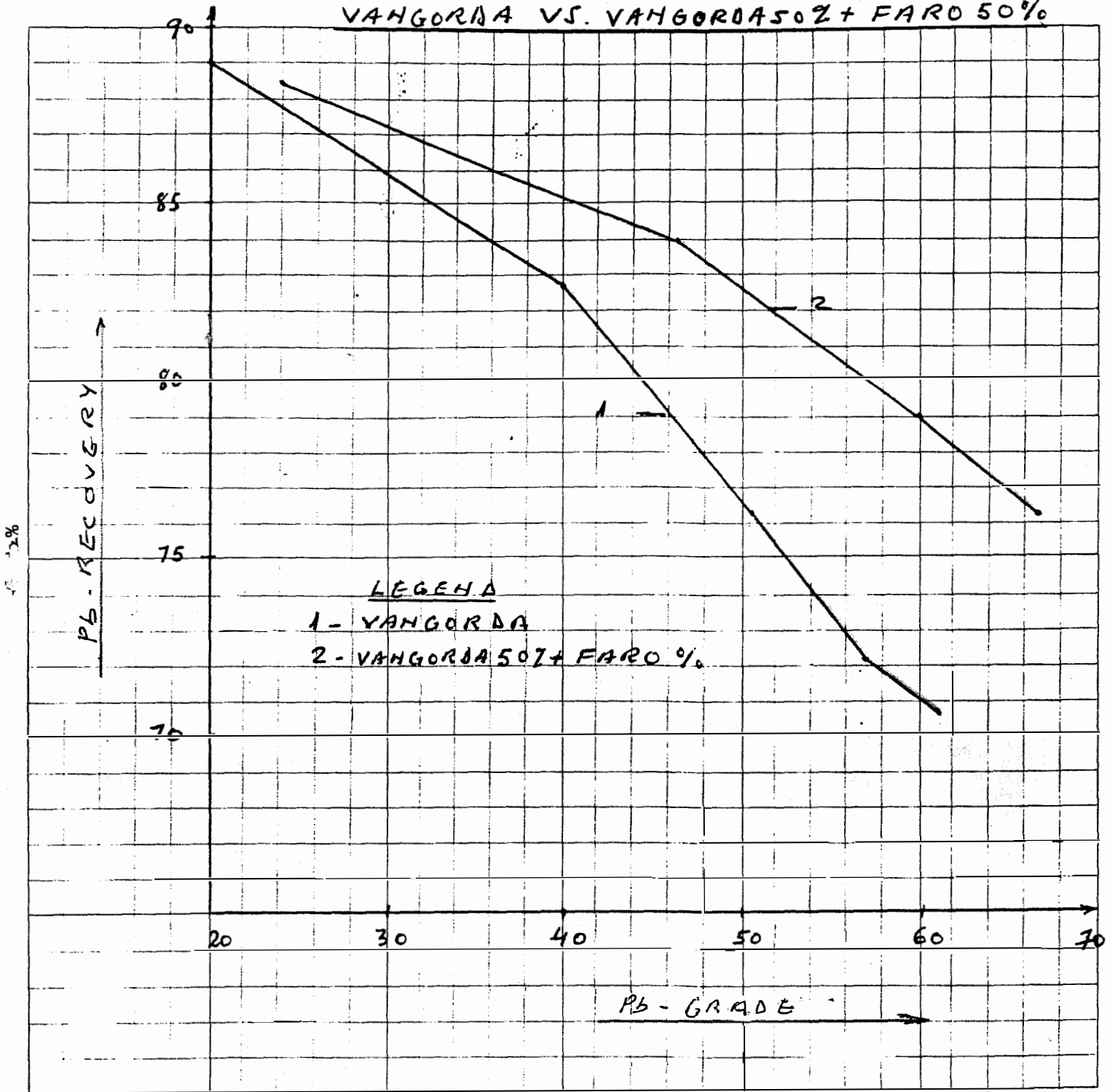


Cyprus Anvil Mining Corporation
METALLURGICAL TEST REPORT

Grade-Recovery Curve

Test No.: T# 9 VS T# 11 Date: _____
Objective: CLEANER FLOT. TEST Key: _____
Reagents: XANTHATE

VANGORDA VS. VANGORDA 50% + FARO 50%



Cyprus Anvil Mining Corporation
METALLURGICAL TEST REPORT

Grade-Recovery Curve

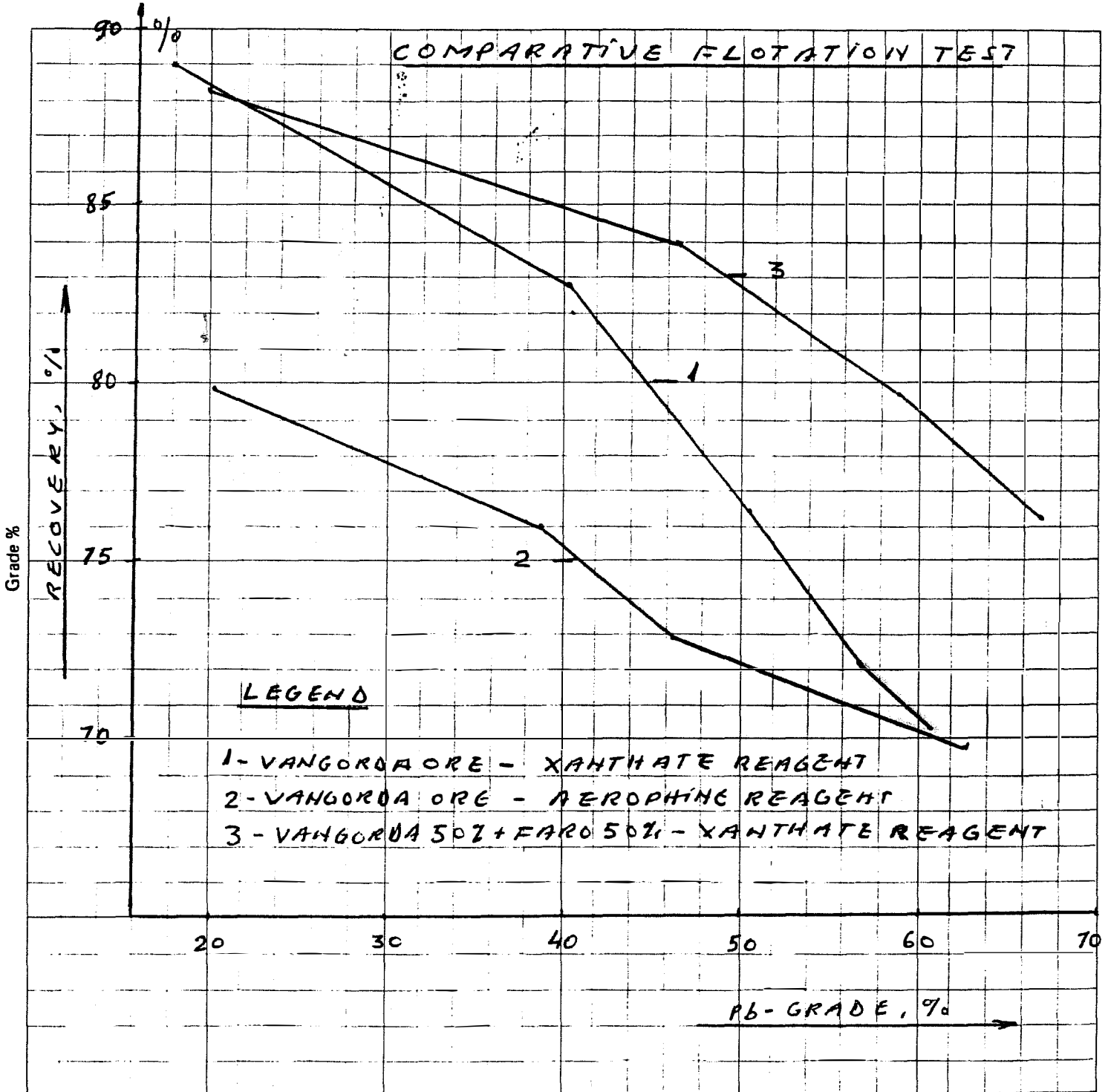
Test No.: T9 vs. T10 vs. T11

Date: _____

Objective: _____

Key: _____

Reagents: _____



Cyprus Anvil Mining Corporation
METALLURGICAL TEST REPORT

Grade-Recovery Curve

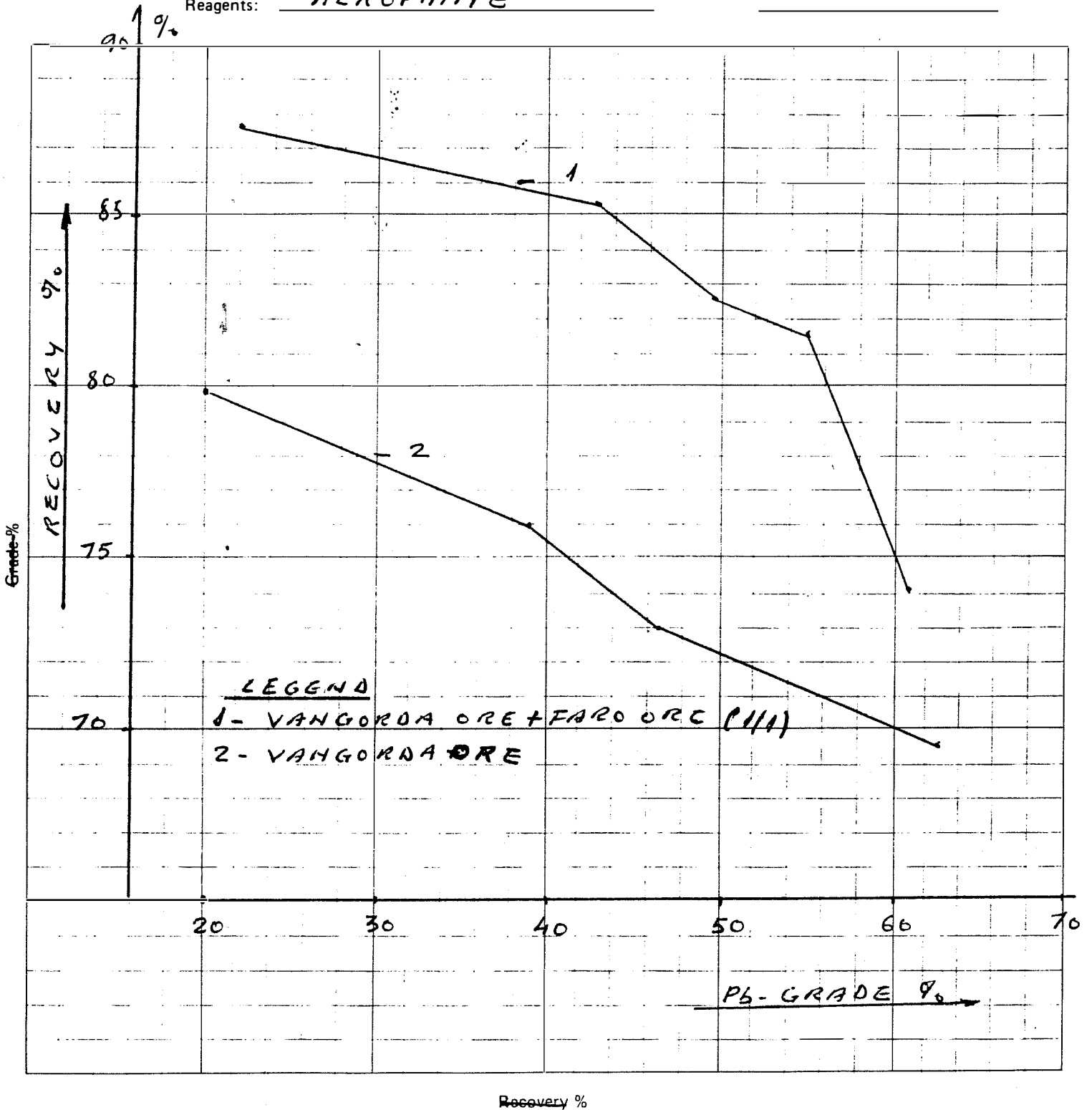
Test No.: T#12 vs. T#10

Date: _____

Objective: VANGORDA + FARO ORE.

Key: _____

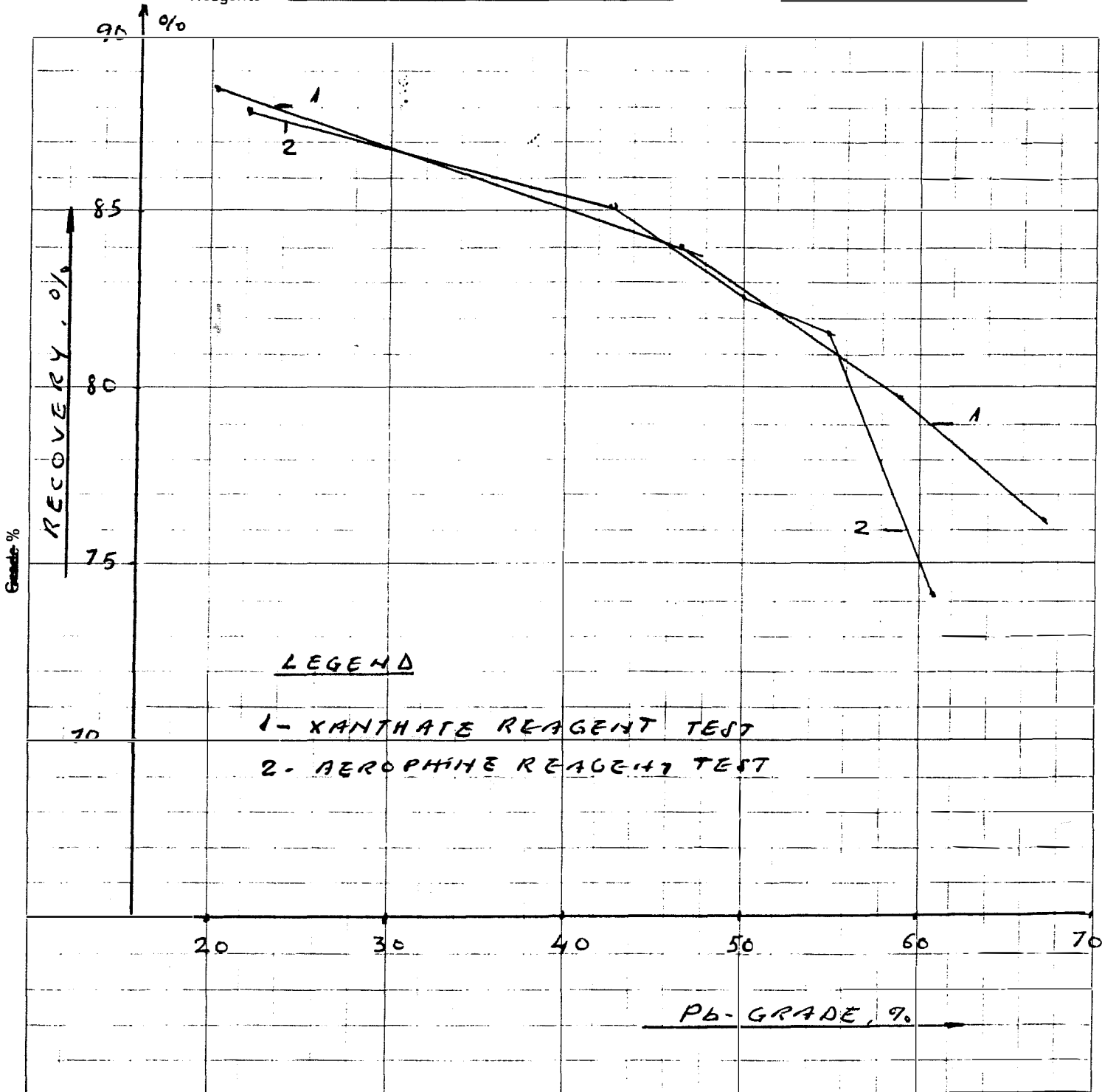
Reagents: AEROPHINE



Cyprus Anvil Mining Corporation
METALLURGICAL TEST REPORT

Grade-Recovery Curve

Test No.: T#11 VS T#12 Date: _____
Objective: VANGORDA + FARO ORE Key: _____
Reagents: XANTHATE VS AEROPHINE _____



LEGEND

- 1 - XANTHATE REAGENT TEST
- 2 - AEROPHINE REAGENT TEST

Pb-Grade, %

REMARKS

THE RESULTS OBTAINED ON THE LAB FLOTATION TESTS ARE CONSIDERED SATISFACTORY AND COMPARABLE TO THE RESULTS OBTAINED BY LAKEFIELD RESEARCH FOR VANGORNA ORE.

BOTH AEROPHINE 3418A AND XANTHATE 343 REAGENT SCHEME WERE TESTED, AS WELL AS A BLENDED COMPOSITE VANGORNA + FARO ORE (1/1)

IT IS WORTH REMEMBERING THAT VANGORNA ORE IS UNLIKELY TO BE MILLED IN ISOLATION (UNLESS WE RUN IT ON A CAMPAIGN BASIS), SINCE IT NEVER REPRESENTS MORE THAN 50 PERCENT OF THE ANNUAL MILL SUPPLY IN OUR LONG-RANGE PLAN.

FOR THIS REASON WE RECOMMEND THAT VANGORNA ORE TRIAL TO BE DONE AS FOLLOWS:

- MILL TRIAL USING LAKEFIELD REAGENT SCHEME [AEROPHINE + PAX]

- MILL TRIAL USING XANTHATE [SIPX] REAGENT SCHEME

- MILL TRIAL ON BLENDED VANGORNA AND FARO ORE (1/1), USING XANTHATE REAGENT SCHEME [FULL SCALE TEST WORK DONE WITH AEROPHINE ON FARO ORE, HAS SHOWN THAT AEROPHINE 3418A DOES NOT WORK BETTER THAN XANTHATE]

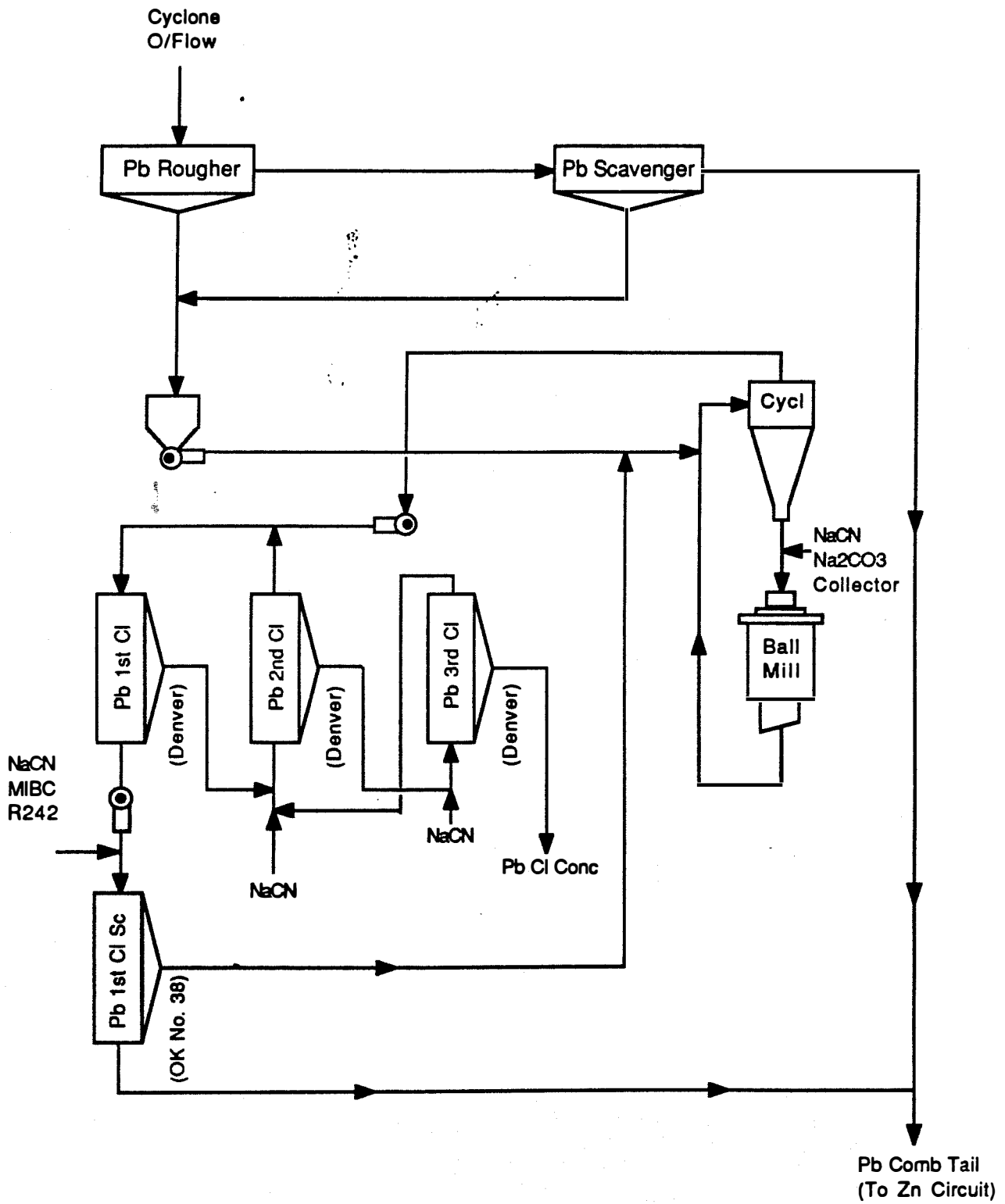
ASSUMING 5 DAYS TRIAL FOR EACH TEST, WILL RESULT:

2 TRIALS X 5 DAYS X 13,500 TPD = 135,000 TON VANGORNA ORE
1 TRIAL X 5 DAYS X 6,750 TPD = 33,750 TON VANGORNA ORE
TOTAL TRIAL = 168,750 T. VANGORNA ORE

IT SEEMS LIKELY THAT OUR EXISTING GRINDING CAPACITY COULD MILL 13,500 TPD OF VAN GORDA ORE TO ABOUT 65 MICRONS K₈₀ (VS. 50 MICRONS K₈₀ RECOMMENDED BY LAKEFIELD), AND TO ABOUT 70 MICRONS K₈₀ FOR BLENDED VAN GORDA AND FARD ORE.

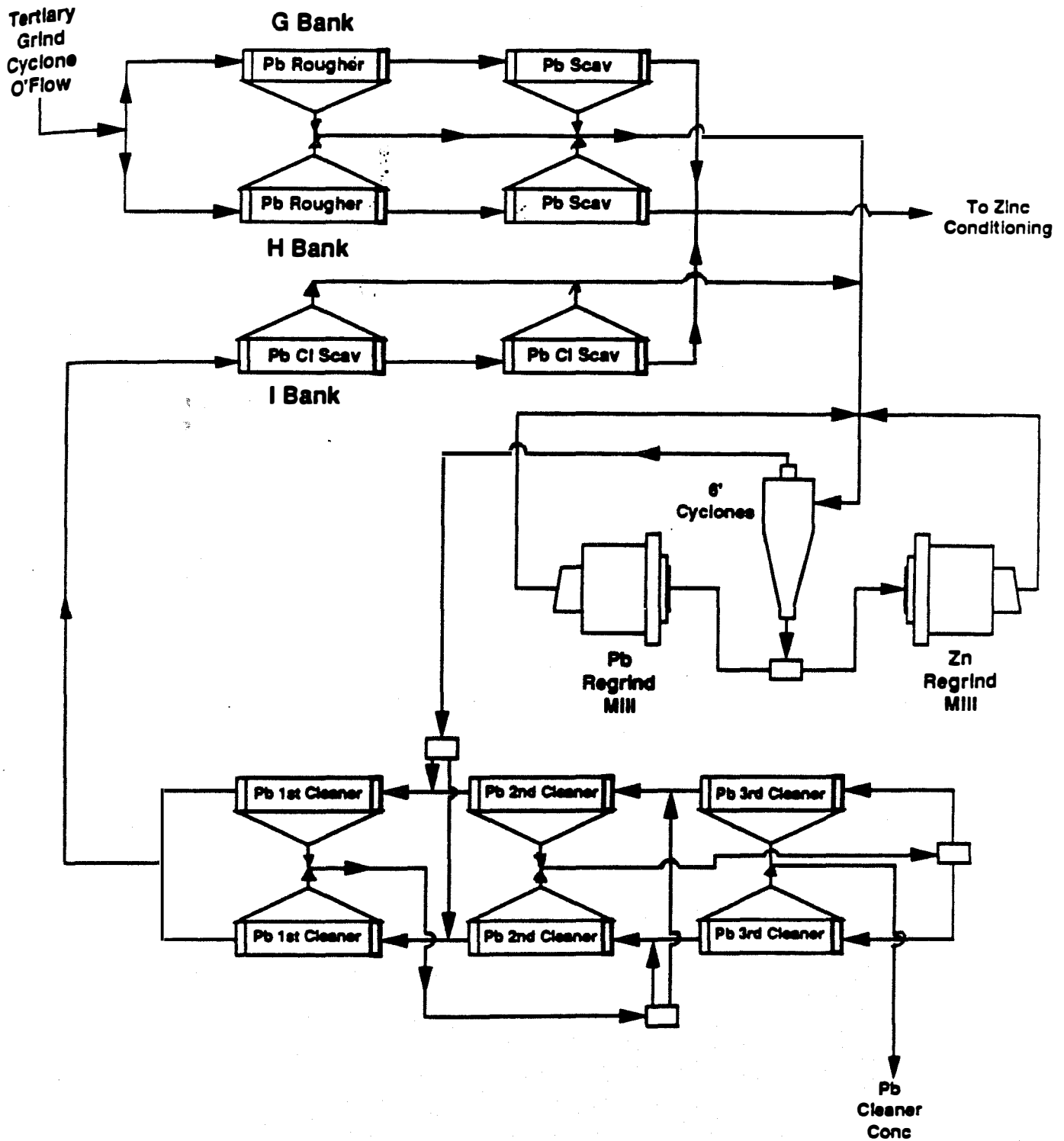
MODIFICATION OF THE EXISTING MILL FLOWSHEET AND POINTS OF REAGENT ADDITIONS HAVE TO BE DONE CORRESPONDING TO LAKEFIELD RECOMMENDATION (FIG. N. 1 AND FIG. N. 2).

Figure No. 1: Recommended Modification of Plant Lead Circuit Flowsheet with Points of Reagent Additions



Recommendations - Continued

FIGURE NO. 2 :
Recommended Flowsheet for the Treatment of Vangorda & Gnm Ores



CURRAGH RESOURCES INC.
METALLURGICAL DEPARTMENT
LABORATORY FLOTATION TEST

PROJECT: VANGORDA ORE - REGRINDING TEST #: 11
CONCENTRATES, 4 STAGE CLEANING DATE: JULY 30, 1990

PRODUCT	MASS (g)	MASS (%)	%Pb	%Zn	ASSAYS %Fe	DISTRIBUTION (%)		
						Pb	Zn	Fe
PB 1st. CLNR TAIL	198.83	11.08	1.70	9.00	32.80	4.36	12.64	11.09
PB 2nd. CLNR TAIL	34.48	1.92	7.54	11.50	28.90	3.35	2.80	1.69
PB 3rd. CLNR TAIL	17.09	0.95	21.40	12.50	23.20	4.71	1.51	0.67
PB 4th. CLNR TAIL	22.66	1.26	50.70	9.06	11.50	14.80	1.45	0.44
PB FINAL CONCENTRATE	65.07	3.63	<u>73.50</u>	1.02	3.13	<u>61.63</u>	1.85	0.35
CUMMULATIVE:								
PB ROUGHER CONCENTRATE	338.13	18.84	20.31	7.87	24.01	88.49	18.80	13.80
PB 1st. CLNR CONCENTRATE	139.30	7.76	46.87	6.26	11.46	84.13	6.16	2.71
PB 2nd. CLNR CONCENTRATE	104.82	5.84	59.07	4.53	5.73	79.78	3.36	1.02
PB 3rd. CLNR CONCENTRATE	87.73	4.89	<u>67.61</u>	5.32	5.29	<u>76.43</u>	3.30	0.79
PB 4th. CLNR CONCENTRATE	65.07	3.63	<u>73.50</u>	4.02	3.13	<u>61.63</u>	1.85	0.35
PB SCAVENGER TAILS	1118.14	62.31	<u>0.46</u>	4.48	40.96	6.59	35.41	77.88
ZN 1st. CLNR TAIL	125.40	11.08	0.89	19.30	22.00	2.28	27.11	7.44
ZN 2nd. CLNR TAIL	34.60	1.92	0.62	49.40	11.00	0.28	12.03	0.64
ZN 3rd. CLNR TAIL	28.48	0.95	0.42	55.00	7.96	0.09	6.64	0.23
ZN 4th. CLNR TAIL	27.56	1.26	0.29	57.30	7.86	0.08	9.17	0.30
ZN FINAL CONCENTRATE	8.58	3.63	0.25	58.90	7.86	0.21	27.08	0.87
CUMMULATIVE:								
ZN ROUGHER CONCENTRATE	224.62	12.52	1.77	45.91	24.05	5.13	72.86	9.18
ZN 1st. CLNR CONCENTRATE	99.22	7.76	1.59	46.49	7.37	2.85	45.75	1.75
ZN 2nd. CLNR CONCENTRATE	64.62	5.84	0.42	45.53	6.18	0.57	33.72	1.10
ZN 3rd. CLNR CONCENTRATE	36.14	4.89	0.26	58.49	7.86	0.29	36.25	1.17
ZN 4th. CLNR CONCENTRATE	8.58	3.63	0.25	58.90	7.86	0.21	27.08	0.87
ZN SCAVENGER TAILS	1456.27	81.16	0.34	0.81	31.10	6.38	8.33	77.01
FEED (CALC.)	1794.40	100.00	<u>4.32</u>	7.89	32.77	100.00	100.00	100.00

CURRAGH RESOURCES INC.
METALLURGICAL DEPARTMENT
LABORATORY FLOTATION TEST

PROJECT: VANGORDA ORE - REGRINDING
CONCENTRATES, 4 STAGE CLEANING

TEST #: 11
DATE: JULY 30, 1990

PRODUCT	MASS (g)	MASS (%)	%Pb	%Zn	ASSAYS		DISTRIBUTION (%)		
					%Fe	Pb	Zn	Fe	
PB 1st. CLNR TAIL	198.83	11.08	1.70	9.00	32.80	4.44	17.46	11.47	
PB 2nd. CLNR TAIL	34.48	1.92	7.54	11.50	28.90	3.41	3.87	1.75	
PB 3rd. CLNR TAIL	17.09	0.95	21.40	12.50	23.20	4.80	2.08	0.70	
PB 4th. CLNR TAIL	22.66	1.26	50.70	9.06	11.50	15.08	2.00	0.46	
PB FINAL CONCENTRATE	65.07	3.63	73.50	4.02	3.13	62.79	2.55	0.36	
CUMMULATIVE:									
PB ROUGHER CONCENTRATE	338.13	18.84	20.31	8.48	24.01	90.16	27.97	14.28	
PB 1st. CLNR CONCENTRATE	139.30	7.76	46.87	7.73	11.46	85.72	10.51	2.81	
PB 2nd. CLNR CONCENTRATE	104.82	5.84	59.07	6.49	5.73	81.28	6.64	1.06	
PB 3rd. CLNR CONCENTRATE	87.73	4.89	67.61	5.32	5.29	77.87	4.56	0.82	
PB 4th. CLNR CONCENTRATE	65.07	3.63	73.50	4.02	3.13	62.79	2.55	0.36	
PB SCAVENGER TAILS	1118.14	62.31	0.44	1.51	40.57	6.53	16.44	79.80	
ZN 1st. CLNR TAIL	125.40	6.99	0.89	19.30	22.00	1.47	23.62	4.85	
ZN 2nd. CLNR TAIL	34.60	1.93	0.62	49.40	11.00	0.28	16.68	0.67	
ZN 3rd. CLNR TAIL	28.48	1.59	0.42	55.00	7.96	0.16	15.29	0.40	
ZN 4th. CLNR TAIL	27.56	1.54	0.29	57.30	7.86	0.10	15.41	0.38	
ZN FINAL CONCENTRATE	8.58	0.48	0.25	58.90	7.86	0.03	4.93	0.12	
CUMMULATIVE:									
ZN ROUGHER CONCENTRATE	224.62	12.52	1.13	27.61	15.29	3.34	60.52	6.04	
ZN 1st. CLNR CONCENTRATE	99.22	5.53	1.44	38.11	6.80	1.88	36.90	1.19	
ZN 2nd. CLNR CONCENTRATE	64.62	3.60	0.49	32.06	4.55	0.41	20.22	0.52	
ZN 3rd. CLNR CONCENTRATE	36.14	2.01	0.28	57.68	7.86	0.13	20.34	0.50	
ZN 4th. CLNR CONCENTRATE	8.58	0.48	0.25	58.90	7.86	0.03	4.93	0.12	
ZN SCAVENGER TAILS	1456.27	81.16	0.34	0.81	31.10	6.50	11.51	79.68	
FEED (CALC.)	1794.40	100.00	4.25	5.71	31.68	100.00	100.00	100.00	

CURRACH RESOURCES INC.
METALLURGICAL DEPARTMENT
LABORATORY FLOTATION TEST

PROJECT: VANGORDA ORE - REGRINDING TEST #: 12
CONCENTRATES, 4 STAGE CLEANING DATE: JULY 31, 1990

PRODUCT	MASS (g)	MASS (%)	%Pb	%Zn	ASSAYS		DISTRIBUTION (%)		
					%Fe	Pb	Zn	Fe	
PB 1st. CLNR TAIL	155.64	8.53	1.28	8.84	33.10	2.63	14.78	10.40	
PB 2nd. CLNR TAIL	22.40	1.23	3.35	8.53	32.20	0.99	2.05	1.46	
PB 3rd. CLNR TAIL	14.52	0.80	10.70	11.70	29.60	2.05	1.82	0.87	
PB 4th. CLNR TAIL	18.51	1.01	31.00	10.80	20.20	7.58	2.15	0.75	
PB FINAL CONCENTRATE	92.53	5.07	60.70	7.45	6.59	74.15	7.40	1.23	
CUMMULATIVE:									
PB ROUGHER CONCENTRATE	303.60	16.63	21.95	7.99	22.77	87.98	26.06	13.95	
PB 1st. CLNR CONCENTRATE	147.96	8.11	43.69	7.10	11.90	85.35	11.28	3.55	
PB 2nd. CLNR CONCENTRATE	125.56	6.88	49.90	6.94	8.28	82.72	9.23	2.10	
PB 3rd. CLNR CONCENTRATE	111.04	6.08	55.75	8.01	8.86	81.73	9.55	1.99	
PB 4th. CLNR CONCENTRATE	92.53	5.07	60.70	7.45	6.59	74.15	7.40	1.23	
PB SCAVENGER TAILS	1217.95	66.73	0.53	1.55	33.06	8.54	20.30	81.27	
ZN 1st. CLNR TAIL	91.02	4.99	1.19	25.60	20.30	1.43	25.03	3.73	
ZN 2nd. CLNR TAIL	26.70	1.46	1.15	43.70	11.80	0.41	12.53	0.64	
ZN 3rd. CLNR TAIL	27.43	1.50	0.63	54.60	7.42	0.23	16.09	0.41	
ZN 4th. CLNR TAIL	30.96	1.70	0.52	57.00	7.14	0.21	18.95	0.45	
ZN FINAL CONCENTRATE	13.65	0.75	0.59	57.10	7.01	0.11	8.37	0.19	
CUMMULATIVE:									
ZN ROUGHER CONCENTRATE	189.76	10.40	1.43	30.43	12.97	3.58	62.01	4.97	
ZN 1st. CLNR CONCENTRATE	98.74	5.41	1.65	34.88	6.22	2.15	36.99	1.24	
ZN 2nd. CLNR CONCENTRATE	72.04	3.95	0.76	31.61	4.15	0.72	24.46	0.60	
ZN 3rd. CLNR CONCENTRATE	44.61	2.44	0.54	57.03	7.10	0.32	27.32	0.64	
ZN 4th. CLNR CONCENTRATE	13.65	0.75	0.59	57.10	7.01	0.11	8.37	0.19	
ZN SCAVENGER TAILS	1521.55	83.37	0.42	0.73	26.40	8.44	11.93	81.08	
FEED (CALC.)	1825.15	100.00	4.15	5.10	27.14	100.00	100.00	100.00	

CURRAGH RESOURCES

PR1

Sample Assay Sheet 2823

Production Date: July 26, 1990

Sample Origin: VANGOROA ORE LEAD CLEANER FLOTATION

Sample Number	Pb	Zn	Fe	Ag	Cu	T#9
1 ML 16453	2.17	11.2	31.3			T 9 - Pb 1 ST CLTLS
2 ML 16 454	7.63	8.67	30.6			T 9 - Pb 2 ND CLTLS
3 ML 16 455	11.3	18.6	23.9			T 9 - Pb 3 RD CLTLS
4 ML 16 456	14.2	20.3	22.2			T 9 - Pb 4 th CLTLS
5 ML 16 457	61.4	8.81	7.04			T 9 - Pb CONC
6 ML 16 458	0.55	4.18	25.8			T 9 - Pb SCALTS
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CURRAGH RESOURCES

PR #1

Sample Assay Sheet 2824

Production Date: JULY 27/'90

Sample Origin: VANGORUA - T#10 T#10

Sample Number	Pb	Zn	Fe	Ag	Al				
1 16459	1.66	9.76	30.3		T10	Pb	1ST	CLN	TLS
2 16460	8.50	10.1	29.3		T10	"	2ND	CLN	TLS
3 16461	38.3	12.0	15.6		T10	"	3RD	"	"
4 62	61.5	9.35	5.01		T10	"	4TH	"	"
5 63	1.26	8.31	30.4		T10	Zn	1ST	CLN	TLS
6 64	3.26	36.1	14.4		T10	"	2ND	"	"
7 65	2.55	49.3	8.18		T10	"	3RD	"	"
8 66	1.71	55.8	5.94		T10	"	4TH	"	"
9 67	66.2	7.18	3.38		T10	Pb	CON.		
10 68	1.24	58.6	5.21		T10	Zn	CON.		
11 69	0.55	0.82	26.8		T10	FINAL	TALS		
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13 71									
14 72									
15 73									
16 74									
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Assayer: *J. Jones*

PR 1

CURRAGH RESOURCES

Sample Assay Sheet 2825

Production Date: July 30/90

Sample Origin: VANGORDA ORE REGRIND CURFLOATS/AERO 343

Sample Number	Pb	Zn	Fe	Ag	Cu	T # 11
1 ML16 470	1.70	9.00	32.8			T 11 - Pb 1 ST CLTCS
2 471	7.54	11.5	28.9			T 11 - Pb 2 ND CLTCS
3 472	21.4	12.5	23.2			T 11 - Pb 3 RD CLTCS
4 473	50.7	9.06	11.5			T 11 - Pb 4 TH CLTCS
5 474	73.5	4.02	3.13			T 11 - Pb CONC
6 475	0.89	19.3	22.0			T 11 - Zn 1 ST CLTCS
7 476	0.62	49.4	11.0			T 11 - Zn 2 ND CLTCS
8 477	0.42	55.0	7.96			T 11 - Zn 3 RD CLTCS
9 478	0.29	57.3	7.86			T 11 - Zn 4 TH CLTCS
10 479	0.25	58.9	7.86			T 11 - Zn CONC
11 ML16 480	0.34	0.81	31.1			T 11 - FINAL TCS
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Assayer: *J. Moran*

CURRAGH RESOURCES

PRI

Sample Assay Sheet 2827

Production Date: July 31, 1990

Sample Origin: VAN GORDA ORE - REGRIND/CLUR(4) // 343/3418A
~~2 22X~~

Sample Number	Pb	Zn	Fe	Ag	Cu	T # 12	
1 ML16485	7.28	8.84	33.1			T 12 - Pb 1 st CLTLS	
2 486	3.35	8.53	32.2			T 12 - Pb 2 nd CLTLS	
3 487	10.7	11.7	29.6			T 12 - Pb 3 rd CLTLS	
4 488	31.0	10.8	20.2			T 12 - Pb 4 th CLTLS	
5 489 (607)	7.45	6.59				T 12 - Pb CONC	
6 490	1.19	25.6	20.3			T 12 - Zn 1 st CLTLS	
7 491	1.15	43.7	11.8			T 12 - Zn 2 nd CLTLS	
8 492	0.63	54.6	7.42			T 12 - Zn 3 rd CLTLS	
9 493	0.52	57.0	7.14			T 12 - Zn 4 th CLTLS	
10 494	0.59	57.1	7.01			T 12 - Zn CONC	
11 ML16495	0.42	0.73	26.44			T 12 - FINAL TAILS	
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Assayer: [Signature]