

TRF METALLURGICAL BALANCE  
(C.I.L.)

DATE: SEPT. 30, 1988

DAY  
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RECOVERIES (%)	COMBINED GRADES oz/Ton Au.	AVAILABILITY (HRS/%)	
SOLIDS			
DISSOLUTION 31.58	HEADS 0.078	OP.HRS.(BUDG)	24.0
ADSORPTION 94.66	TAILS 0.053	OP.HRS.(ACT)	21.5
TOTAL 31.79	CIL RECOVERY	AVAIL.(%)	89.6
	TO CARBON 179.988 oz.	DOWNTIME(HRS)	2.50
LOW FEED SUPPLY.			
CIL FEED SOLUTION ASSAY:	0.0048		

MONTH TO DATE  
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RECOVERIES (%)	COMBINED GRADES oz/Ton Au..	AVAILABILITY (HRS/%)	
SOLIDS			
DISSOLUTION 28.66	HEADS 0.073	OP.HRS.(BUDG)	720
ADSORPTION 89.40	TAILS 0.052	OP.HRS.(ACT)	654
TOTAL 28.14	CIL RECOVERY	AVAIL.(%)	90.8
	TO CARBON 3829.88 oz.	DOWNTIME(HRS)	66

YEAR TO DATE  
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RECOVERIES (%)	COMBINED GRADES oz/Ton Au..	AVAILABILITY (HRS/%)	
SOLIDS			
DISSOLUTION 30.29	HEADS 0.079	OP.HRS.(BUDG)	3672
ADSORPTION 69.78	TAILS 0.061	OP.HRS.(ACT)	3314.27
TOTAL 22.66	CIL RECOVERY	AVAIL.(%)	90.3
	TO CARBON 15001.38 oz.	DOWNTIME(HRS)	357.73

TRP METALLURGICAL BALANCE  
(C.I.L.)

DAY  
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DATE: SEPT. 30, 1988

FEED :				RECLAIM SOLUTION			TOTAL
Tons	Percent Solids	Ounces Au/Ton	Ounces Au.	Tons	Ounces Au/Ton	Ounces Au.	Ounces Au.
7302.1	41.39	0.075	549.65	10341.4	0.0016	16.55	566.19
TAILS :				TAILS SOLUTION			TOTAL
7302.1	41.39	0.052	376.06	10341.4	0.0010	10.15	386.21

MONTH TO DATE  
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FEED :				RECLAIM SOLUTION			TOTAL
Tons	Percent Solids	Ounces Au/Ton	Ounces Au.	Tons	Ounces Au/Ton	Ounces Au.	Ounces Au.
186638.6	36.21	0.070	13069.41	328741.8	0.0016	538.38	13607.79
TAILS :				TAILS SOLUTION			TOTAL
186638.6	36.21	0.050	9323.70	328741.8	0.0014	454.21	9777.91

YEAR TO DATE  
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FEED :				RECLAIM SOLUTION			TOTAL
Tons	Percent Solids	Ounces Au/Ton	Ounces Au.	Tons	Ounces Au/Ton	Ounces Au.	Ounces Au.
843294.3	32.50	0.076	64137.24	1751495.2	0.0012	2068.23	66205.47
TAILS :				TAILS SOLUTION			TOTAL
843294.3	32.50	0.053	44708.49	1751495.2	0.004	6495.60	51204.09

**TRP METALLURGICAL BALANCE  
(STRIP CIRCUIT)**

DAY BATCH No.88-30.  
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DATE: SEPT. 30, 1988

TONS OF CARBON (EST.)	LOADED CARBON		STRIPPED CARBON		CATHODE RECOVERED
	oz Au/TON	oz Au	oz Au/TON	oz Au	oz Au
4.288	59.380	254.621	1.100	4.717	249.905

STRIP CIRCUIT RECOVERY: 98.14

MONTH ( BATCH Nos.88-014 TO 88-30)

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TONS OF CARBON (EST.)	LOADED CARBON		STRIPPED CARBON		CATHODE RECOVERED
	oz Au/TON	oz Au	oz Au/TON	oz Au	oz Au
77.430	55.475	4295.444	2.135	165.297	4132.891

STRIP CIRCUIT RECOVERY: 96.21

YEAR ( BATCH Nos.88-01 TO 88-30)

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TONS OF CARBON (EST.)	LOADED CARBON		STRIPPED CARBON		CATHODE RECOVERED
	oz Au/TON	oz Au	oz Au/TON	oz Au	oz Au
133.305	49.367	6580.848	2.710	361.297	6222.299

STRIP CIRCUIT RECOVERY: 94.55

TRP BULLION PRODUCED

SEPTEMBER 1988 ( BAR Nos. TRP-003 TO TRP-008 )

TOTAL WEIGHT OZS.	ASSAY FINENESS		TROY OUNCES	
	GOLD	SILVER	GOLD	SILVER
4,324.787	677.805	220.744	2,931.361	954.669

YEAR TO DATE ( BAR Nos. TRP-001 TO TRP-008 )

TOTAL WEIGHT OZS.	ASSAY FINENESS		TROY OUNCES	
	GOLD	SILVER	GOLD	SILVER
5,826.258	678.579	211.978	3,953.574	1,235.039

CATHODES CURRENTLY CONTAIN (ozs Au): 2268.725

**ESTIMATED CIL CARBON GOLD INVENTORY**  
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DATE:  
SEPT. 30, 1988

DAY

FROM INVENTORY	TO INVENTORY		NET CHANGE
CARBON TO STRIP oz Au	CIL RECOVERY TO CARBON oz Au	STRIPPED CARBON oz Au	PLUS (MINUS) oz Au
254.621	179.988	4.717	-69.916

MONTH

FROM INVENTORY	TO INVENTORY		NET CHANGE
CARBON TO STRIP oz Au	CIL RECOVERY TO CARBON oz Au	STRIPPED CARBON oz Au	PLUS (MINUS) oz Au
4295.444	3889.345	165.297	-240.802

YEAR

FROM INVENTORY	TO INVENTORY		NET CHANGE
CARBON TO STRIP oz Au	CIL RECOVERY TO CARBON oz Au	STRIPPED CARBON oz Au	PLUS (MINUS) oz Au
6580.852	15396.72	361.297	9177.17

CURRENT CIL CARBON GOLD INVENTORY oz Au: 9177.17

**METALLURGICAL BALANCE VS TANK SAMPLE INVENTORY**  
**SEPT. 30, 1988**

CIL TANK NUMBER	WEIGHTS		ASSAY	TOTAL
	gms/L	TONS	ozs Au/ton	ozs Au
1	19.00	55.70	59.44	3310.676
2	10.10	29.61	45.22	1338.863
3	34.60	101.43	36.71	3723.443
4	27.00	79.15	20.00	1582.989
5	35.10	102.89	14.40	1481.678
6	35.60	104.36	12.50	1304.501
TOTAL		473.14		12742.15
AVERAGE	26.90		26.93	

**CARBON ASSAYS FROM 28TH SAMPLES.**

	CIL CARBON oz Au	INVENTORY TONS CARBON	INVENTORY oz Au/TON
FROM MET. BALANCE	9,177.170	311.90	29.42
FROM TANK SAMPLING	12,742.151	473.14	26.93
DIFFERENCE	(3,564.981)	-161.24	2.49

TONS OF FRESH CARBON ADDED TO DATE: 311.901

REAGENT CONSUMPTION - SEPTEMBER 1988

REAGENT	MONTH		YEAR TO DATE	
	LBS *(LITRES)	LBS/TON *(LITRES/TON)	LBS	LBS/TON
PROPANE	101,206	0.546	172,069	0.204
<sup>1</sup> CARBON	70,560	0.380	170,870	0.203
LIME	58,600	0.316(.)	605,469	0.719
MURIATIC ACID	1,993	0.011	6,477	0.008
CAUSTIC SODA	29,271	0.158	117,565	0.140
SODIUM CYANIDE	278,333	1.501	852,682	1.013
STEEL WOOL	45	0.00024	140	0.0002

1. Carbon added to CIL.

(.) Purchased 60 tonnes of new carbon but has not yet all been received.