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TELECOPY COVER PAGE

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*cette mine appartient à Edno Bay qui veut
la vendre. Pourquoi? je ne sais pas.*

R. Plasse

Congress Mine

YAVAPAI Co

Arizona

2.8

SUNNYSIDE OPERATING UNIT
CONGRESS MINE

KEY STATISTICS VS 1988 O.P.
BASE CASE

	<u>O.P.</u>	<u>R.P.</u>
Reserve Ounces	155,690	144,908
Ore Production	4,050	76,806
Gold Production	1,283	28,054
Tons Shipped/Day	150	375
Operating Cost/oz.	512	276
Operating Cost/Ton	162	89
Operating Earnings (000's)	N/A	\$ 2,740
Operating Cash Flow (000's)	\$(11,518)	\$ 4,291
Capital Spending	6,995	\$ 4,773
Permanent Manpower	68	49
Tons/Manshift	N/A	5.9

ECHO BAY MINERALS
CONGRESS MINE

ESTIMATE OF EXPLORATION POTENTIAL
RALPH RUPP - CHIEF GEOLOGIST

There are three primary targets at Congress Mine which exhibit good potential to increase reserves. In order of priority, they are: the #6 workings on Niagara Vein, perimeter of Old Congress workings, and Deep Niagara Vein.

Adjacent to the southeast side of the New Niagara Ore Shoot lies the zone with the greatest potential to generate mineable reserves. Previously mined from the #6 shaft, this ore shoot still contains approximately 100,000 tons of unmined ore with a diluted grade of 0.24 to 0.30 ounces per ton gold. *24,000*

Second in priority as an exploration target is the perimeter of the Old Congress Mine. Possibly 400,000 tons of unmined ore is available with an average diluted grade of approximately 0.27 ounces per ton gold. *108,000*

The Deep Niagara has yet to be drilled and offers good potential to prove up ore in the quarter ounce per ton range. At least 200,000 tons are expected to be located. *50,000*

An additional target at the Congress property is the stope fill of the Old Congress Mine. Exploring this resource will involve dewatering the Old Mine and sampling the stope fill. Old reports indicate a possible 500,000 to 700,000 tons of fill could be available with an average grade of near 0.25 ounces per ton gold. Preliminary sampling of the old mine (to the 650 foot level) indicates grades on the average of 0.15 ounces per ton gold. *125,000*

Lesser targets for drilling exploration also include:

the East Fault offset of Niagara Vein (possibly 150,000 tons @ 0.30). *45,000*

Queen of the Hills deep (250,000 tons @ 0.30 to 0.50). *75,000*

I believe additional targets will be located as time allows and fully expect a million ton reserve could be realized with a bold and aggressive exploration program within two years time.

ECHO BAY MINES LTD.
WESTERN DIVISION
1989 OPERATING PLAN
CONGRESS MINE

KEY STATISTICS

	1987 ACTUAL	1988 FORECAST	1989 PLAN
	-----	-----	-----
PRODUCTION		16,473	22,743
COST PER OUNCE			
MANAGEMENT		\$342	\$281
CASH		\$230	\$175
SHIPPING		100	107
TOTAL CASH		330	281
DEPRECIATION		1	14
DEPLETION		64	74
PROFIT AND LOSS		395	369
ROYALTY		20	14
BREAKEVEN		\$415	\$383

ECHO BAY MINES LTD.
WESTERN DIVISION
1989 OPERATING PLAN
CONGRESS MINE

ACTION PLANS AND STRATEGIES

ACTION PLANS

List

- 1. CONTINUE SURFACE AND UNDERGROUND EXPLORATION OF BOTH OLD AND NEW CONGRESS
- 2. DETERMINE OPTIMUM MINING LIMITS AND PRODUCTION RATES

STRATEGIES

- 1. LOCATE FLUX CUSTOMER CLOSER TO THE MINE SITE
- 2. DETERMINE HEAP LEACH POTENTIAL

ECHO BAY MINES LTD.
 WESTERN DIVISION
 1989 OPERATING PLAN
 CONGRESS MINE

ASSUMPTIONS

1989

MINING

PRODUCTION	
ORE TONS	89,375
WASTE TONS	44,200

PRODUCTIVITY	
ORE TONS/WEEK	1,719
WASTE TONS/WEEK	850

PROCESSING

PRODUCTION - ORE
 TONS SENT TO SMELTER EQUAL TO TONS ORE MINED
 CONTINUE TO USE CURRENT PHELPS DODGE CONTRACT

RECOVERY
 SMELTER FLUX
 GOLD

BASED ON PHELPS DODGE CONTRACT;
 ((GRADE-.03)*.95)/GRADE
 WILL OFFSET SMELTER DEDUCTS

SILVER

INVENTORY

GOLD IN PROCESS

INVENTORY LEVELS WILL REMAIN
 CONSTANT THROUGH THE YEAR

ECHO BAY MINES LTD.
WESTERN DIVISION
1989 OPERATING PLAN
CONGRESS MINE

DETAIL STATISTICS

	1987 ACTUAL	1988 FORECAST	1989 PLAN
PRODUCTION		16,473	22,743
MINING			
ORE TONS		54,801	89,375
WASTE TONS		79,062	44,200
COST PER OUNCE MANAGEMENT		\$342	\$281
CASH		\$230	\$175
SHIPPING		100	107
TOTAL CASH		330	281
DEPRECIATION		1	14
DEPLETION		64	74
PROFIT AND LOSS		395	369
ROYALTY		80	100
BREAKEVEN		\$415	\$383
CAPITAL COMMITMENTS			
EXPANSION	\$	\$	\$
SUSTAINING		3,824	1,065
REG/MANDATORY			
EXPL/DEV/CLAIMS	6,539		
TOTAL CAPITAL	\$6,539	\$3,824	\$1,065
EXPLORATION EXPENSE			\$500
MANPOWER (12/31)			
REGULAR		41	41
TEMPORARY		0	0
PEAK		41	41

+2 = 43

01/17/1989

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ECHO BAY MINES LTD.
WESTERN DIVISION
1989 OPERATING PLAN
CONGRESS MINE

PRODUCTION STATISTICS

	1987 ACTUAL	1988 FORECAST	1989 PLAN
MINING			
TONS WASTE		79,062	44,200
TONS ORE		54,801	89,375
TOTAL TONS PER WEEK		2,975	2,569

PROCESSING			
TONS SHIPPED TO SMELTER		54,801	89,375
AVERAGE GRADE (MOZ)		315	298
AVERAGE RECOVERY		86.0%	85.4%
OUNCES PRODUCED		16,473	22,743

*1 1/2% royalty
= 3,1362*

ECHO DAT MINES LTD.
WESTERN DIVISION
1989 OPERATING PLAN
CONGRESS MINE

MANPOWER

	1987 ACTUAL	1988 FORECAST	1989 PLAN
	-----	-----	-----
OPERATIONS (12/31)			
REGULAR			
MINING		22	22
PROCESSING		0	0
G & A		19	19
TOTAL REGULAR	-----	41	41
	=====	=====	=====
TEMPORARY			
TOTAL TEMPORARY	-----	0	0
	=====	=====	=====
PEAK	-----	41	41
	=====	=====	=====
PRODUCTIVITY			
MINING (TONS/MAN-SHIFT)		23	23
TOTAL (TONS/MAN-SHIFT)		13	13

ECHO BAY MINES LTD.
WESTERN DIVISION
1989 OPERATING PLAN
CONGRESS MINE

MAJOR RISKS & OPPORTUNITIES

MAJOR RISKS

1. SERIOUS GROUND CONTROL PROBLEMS THAT WOULD DRASTICALLY RAISE MINING COSTS
2. CANCELLATION OF SMELTER CONTRACT
3. VEIN WIDTH NARROWER THAN ORE RESERVE ESTIMATE

MAJOR OPPORTUNITIES

1. POTENTIAL TO CHANGE MINING METHOD AS VEIN BEGINS TO WIDEN
2. LOCATE FLUX CUSTOMER CLOSER TO THE MINE TO REDUCE SHIPPING COSTS
3. INVESTIGATE THE POTENTIAL OF EXTRACTING BROKEN ORE FROM THE OLD CONGRESS MINE
4. EXAMINE HEAP LEACH POTENTIAL
5. FINANCE ROLLING STOCK CAPITAL PROGRAM IN 1989
6. POSSIBILITY OF SELLING WASTE AS ALTERNATIVE USE MATERIAL

SECTION 4

4.0 Financial Analysis

4.1 Purpose, Scope and Base Case Assumptions

The purpose of this analysis is to provide senior management with information necessary to gauge the project risk. Sensitivities are performed on the discounted cash flow, net present value (discounted at 15%), and internal rate of return over relevant ranges on all significant variables. Inflation is excluded from the analysis and all economics are in terms of constant dollars.

1. Sensitivities on grade, recovery, price, capital costs, and operating costs are calculated from -20% to +20% of the base case values in 5% increments.
2. Gold price sensitivities range from U.S. \$350 to U.S. \$550 per ounce in U.S. \$25 per ounce increments.
3. Discounted internal rate of return and net present value sensitivities are calculated from -20% to +20% of the base case values in 5% increments.
4. The impact of the project on Echo Bay is estimated for reserves, production ounces, earnings, and cash flow for the base case only.

The major base case assumptions are as follows:

1. Diluted Mining Reserves containing 485,196 tons at a gold grade of .299 resulting in 144,908 gold ounces.
2. Production Rate: 341 ore tons per operating day.
Production Life: 5.0 years or 60 months ending last quarter of 1992.

Gold Production (ounces):	Mine Ounces	Recoverable Ounces
1988	28,054	23,986
Beyond 1988	29,239	25,000 /year

3. Average Smelter Recovery = 85.5% Payable (includes a fixed deduct plus 95% payable)
4. Metals Prices = Gold US \$470/ounce
Silver US \$6.50/ounce
5. Taxation - calculations performed on a pre-tax basis.
6. Discount Rate - 15% issued for the base case analysis.

? JAN/89 38

7. **Sunk Costs** - The cash flow analysis considers pre-1988 costs as sunk costs although an overall project rate of return is presented.
8. Silver revenue excluded from economics because grade does not meet minimum payable per Flux Contract.
9. Entire mine production shipped as raw product without price concentrating, processing or sizing.
10. The following financial information was used for the base case assumption:
 1. Phase III preproduction to begin December 27, 1987.
 2. All costs and revenues to be included in constant dollars.
 3. Costs and revenue data for project will be a proration of 1988 detail.

4.3

SUNNYSIDE OPERATING UNIT

CONGRESS PROPERTY

OPERATING COST BY NATURE OF EXPENSE

	<u>COST/OUNCE</u>	<u>COST/TON</u>	<u>ANNUAL COST</u>
HOURLY LABOR	\$ 30.80	\$ 9.88	\$ 837,832
SUPERVISION	16.65	5.34	452,877
BENEFITS	13.02	4.17	354,084
PARTS, MATERIALS & SUPPLIES	15.40	4.95	418,832
FUEL & LUBE	2.96	0.95	80,505
ELECTRICAL	? 23.44	7.52	637,558
SERVICES	27.87	8.94	758,286
RENTALS	8.81	2.83	239,697
DEVELOPMENT - MATERIALS	8.55	2.74	232,529
STOPING - MATERIALS	15.58	5.00	423,969
TRANSPORTATION COSTS	78.60	25.21	2,138,279
PENALTY COSTS	0.68	3.11	263,445
SUNNYSIDE INTERCOMPANY	5.84	1.87	159,000
ALLOCATION	18.81	6.03	511,689
TOTAL	<u>\$276.00</u>	<u>\$88.53</u>	<u>\$7,508,580</u>
	*****	*****	*****

4.4 Financial Analysis

4.4.1 Summary

Base Case (US \$ Millions)

1. Net Present Value Profile (Pre-Tax) Phase III

	0%	5%	10%	15%	20%	25%
NPV (000) \$	18,235	15,002	12,465	10,448	8,825	7,505

2. Internal Rate of Return (DCF-ROR @ 15%) 180%

Phase III	180%
Total Project	41%

What is it at current Au price?

3. Per Share Impact:

Echo Bay Shares 94,963,527
 Reserves/Share, 1988: 1.53 milliounces
 Average Annual Production: 0.261 milliounces
 Average Annual Earnings: 2.4 cents
 Average Annual Operating Cash Flow: 4.1 cents

SUNNYSIDE OPERATING UNIT
CONGRESS MINE

KEY STATISTICS
(BASE CASE ONLY)

	Primary Summary				
	1988	1989	1990	1991	1992
EBM Shares Outstanding (000)	94,964	94,964	94,964	94,964	94,964
Reserve Milliounces/share	1.53	1.23	0.920	0.600	0.290
Production Milliounces/share	0.253	.2634	.272	.266	0.25
Earnings per Share (US \$)	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02
Cashflow per Share (US \$)	\$0.03	\$0.05	\$0.06	\$0.05	\$0.05

4. Payback Period

Phase III	1.6 years
Total Project	1.9 years

5. Refer to the following Key Statistics Schedules.

44

4.4.1B SUNNYSIDE OPERATING UNIT *All figures U.S. \$*
 CONGRESS PROJECT *\$470 / oz Au*
 KEY STATISTICS - LIFE OF MINE

	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>
TONS MILLED/SHIPPED	84,816	102,097	102,097	102,097	102,099
GOLD GRADE	0.375	0.287	0.296	0.290	0.272
RECOVERY	85.5%	85.5%	85.5%	85.5%	85.5%
GOLD OUNCES PRODUCED *	27,205	25,029	25,839	25,315	23,727
COST PER TON MILLED/ SHIPPED	\$ 76	\$ 61	\$ 60	\$ 60	\$ 58
COST PER OUNCE PRODUCED:					
OPERATING	\$ 276	\$ 251	\$ 240	\$ 243	\$ 250
ROYALTY	25	26	26	26	22
P & L	362	360	339	357	362
OPERATING EARNINGS (\$000)	2,740	2,760	3,392	2,864	2,567
OPERATING CASH FLOW (\$000)	4,291	4,826	5,274	5,090	4,685
MANPOWER	49	40	40	40	40
TONS PER MANSHIFT	6.8	9.8	9.8	9.8	9.8

INTERNAL RATE OF RETURN - INCREMENTAL *180%*
 - PROJECT LIFE *41%*

NET PRESENT VALUE - INCREMENTAL *\$10.4 MILLION*
 @ 15% - PROJECT LIFE *\$6.1 MILLION*

* Includes Gold ounces mined prior to 1988 but sold in 1988.

PROJECT NAME: CONGRESS

ALSO KNOWN AS: NIAGARA

OWNER(S): ECHO BAY MINES LTD (OWNER, OPERATOR-100%)
MAGIC CIRCLE ENERGY CO (NPI-10%)

METAL(S): GOLD
SILVER

STATUS: PRODUCTION
ACTIVE

START-UP DATE: 1988 - FIRST QUARTER
(PAST PRODUCER)

OPERATION-TYPE: UNDERGROUND

MINESEARCH #: 008992

MOST RECENT SOURCE: MAY 1988

LOCATION

STATE: ARIZONA
COUNTY/TOWNSHIP: YAVAPAI
TOWN: PHOENIX
DISTANCE FROM: 65 MI NW OF PHOENIX
LONGITUDE: 112.50.54
LATITUDE: 34.12.05

SEC 23, T10N, R6W.

GENERAL COMMENTS

ECHO BAY PRODUCES FLUX FROM CONGRESS FOR SALE TO PHELPS DODGE.
PRODUCTION BEGAN IN MARCH 1988. (ECHO BAY PR 5/88)

WORK HISTORY

1981: MAGIC CIRCLE ACQUIRED THE PROPERTY FROM CONGRESS CONSOLIDATED
GOLD MINING COMPANY. (PDA 9/84)

1982: MAGIC CIRCLE DRILLED THE PROPERTY AND ESTABLISHED GOLD
MINERALIZATION AND THE CONTINUITY OF TWO PREVIOUSLY MINED VEINS.

1984: IN JUNE, ECHO BAY ENTERED INTO AN EARN-IN AGREEMENT ON THE PROPERTY AND BEGAN A DRILLING PROGRAM. (ECHO BAY PR 6/13/84)
BY SEPTEMBER, ECHO BAY HAD DRILLED A TOTAL OF 29,370 FT. SOME HOLES SHOWED GOOD GOLD VALUES. (ECHO BAY AR 1984)

1985: ECHO BAY CONTINUED MAPPING AND PUT DOWN 13 DD HOLES. RESERVES WERE SIGNIFICANTLY UPGRADED FROM THE PREVIOUSLY RELEASED FIGURES, BUT WERE NOT MADE PUBLIC. (PC 2/86)

1986: A DRILLING PROGRAM WAS COMPLETED, AND ECHO BAY BEGAN DRIVING A DECLINE RAMP. (ECHO BAY 10K 1986)

1987: ECHO BAY DROVE A 3,500-FT DECLINE SHAFT ON THE VEIN. (PC 1/87)

EXPLORATION COSTS

SINCE 1982, MAGIC CIRCLE SPENT \$2.2 MILLION ON DRILLING.
ECHO BAY PLANS TO SPEND \$250,000 ON SURFACE DRILLING DURING 1984. (ECHO BAY PR 8/7/84)

PHASE II, SCHEDULED FOR 1985 AND 1986, IS BUDGETED AT \$2 MILLION. (PDA 9/84)

1987: ECHO BAY BUDGETED \$2.7 MILLION FOR UNDERGROUND EXPLORATION. (ECHO BAY 10K 1986)

SUBCONTRACTORS

CENTENNIAL DEVELOPMENT IS REPORTED TO BE THE CONTRACTOR FOR UNDERGROUND DEVELOPMENT. (SMR 12/13/86)

OPERATING COSTS (US\$)

PRODUCTION COSTS: \$195/OZ AU

--1988 PROJECTED CASH COSTS. (PC 5/88)

GENERAL PRODUCTION REPORT

MINE LIFE: 6 YEARS
MINING METHOD: UNDERGROUND
MILL CAPACITY/DAY: 250 ST
METAL PRODUCTION: 25,000 OZ/Y AU

PRODUCT FORM: FLUX

REFERENCE: ECHO BAY AR 12/31/87

THE MINE REACHED COMMERCIAL PRODUCTION IN MARCH 1988.
(ECHO BAY PR 5/3/88)

PRODUCTION DATA--1988 PROJECTED

PRODUCTION COSTS: \$195/OZ AU - CASH COSTS
METAL PRODUCTION: 25,000 OZ AU

REFERENCE: PC 5/88

THE ORE IS SHIPPED DIRECTLY TO PHELPS DODGE'S SMELTER. (PC 5/88)

RESERVES REPORT 1

CERTAINTY: DRILL INFERRED
RESERVES: 550,000 ST
GRADE: 0.272 OZ/ST AU

CONTAINED GOLD: 149,600 OZ AU

TONNAGE CALCULATED FROM GIVEN CONTAINED GOLD AND HISTORIC GRADE.
(MEG 5/88)

REFERENCE: ECHO BAY AR 12/31/87

TRANSACTION REPORT 1

TRANSACTION DATE: 1987
TRANSACTION TYPE: PURCHASE

PARTY#1: MAGIC CIRCLE ENERGY CO
DESIGNATION 1: OPTIONOR
ORIGINAL INT 1: 100
POTENTIAL INT 1: NPI

PARTY#2: ECHO BAY MINES LTD
DESIGNATION 2: OWNER
ORIGINAL INT 2: 0
POTENTIAL INT 2: 100

DURING THE SECOND QUARTER 1987, MAGIC CIRCLE SOLD ITS INTEREST IN
CONGRESS TO ECHO BAY FOR \$3.17 MILLION AND A 10% NPI ROYALTY.
(MAGIC CIRCLE 2QR 1987)

TRANSACTION REPORT 2

TRANSACTION DATE: 1984
TRANSACTION TYPE: EARN-IN-TERMINATED

PARTY#1: MAGIC CIRCLE ENERGY CO
DESIGNATION 1: OPTIONOR
ORIGINAL INT 1: 100
POTENTIAL INT 1: 49

PARTY#2: ECHO BAY MINES LTD
DESIGNATION 2: OPTIONEE
ORIGINAL INT 2: 0
POTENTIAL INT 2: 51

ECHO BAY CAN EARN AN UNDIVIDED 51% INTEREST BY SPENDING A TOTAL OF \$7.25 MILLION ON THE PROPERTY BY 6/30/88. ECHO BAY SPENT \$482,000 IN 1984 ON CONFIRMATION AND DEFINITION DRILLING. IN ORDER TO MAINTAIN ITS RIGHT TO EARN A 51% INTEREST, ECHO BAY MUST SPEND AN ADDITIONAL \$2 MILLION BY 6/30/86 WITH A VIEW TO DETERMINING THE FEASIBILITY OF BRINGING THE PROPERTY INTO COMMERCIAL PRODUCTION. (ECHO BAY PROS 1/25/85; PC 2/85)

THE LEASE WAS RENEGOTIATED, EXCLUDING ANY DEADLINE BY WHICH ECHO BAY HAD TO BEGIN FEASIBILITY WORK. (PC 2/86)

COMPANY INFORMATION

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370 17TH ST #4050
DENVER, CO 80202
(303) 592-5450

MAGIC CIRCLE ENERGY CO
4141 NW EXPRESSWAY
OKLAHOMA CITY, OK 73116-1688
(405) 843-6654

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7-89 WEST/MIN/ACT/RPT

AZ WA-6
CO
NV-3

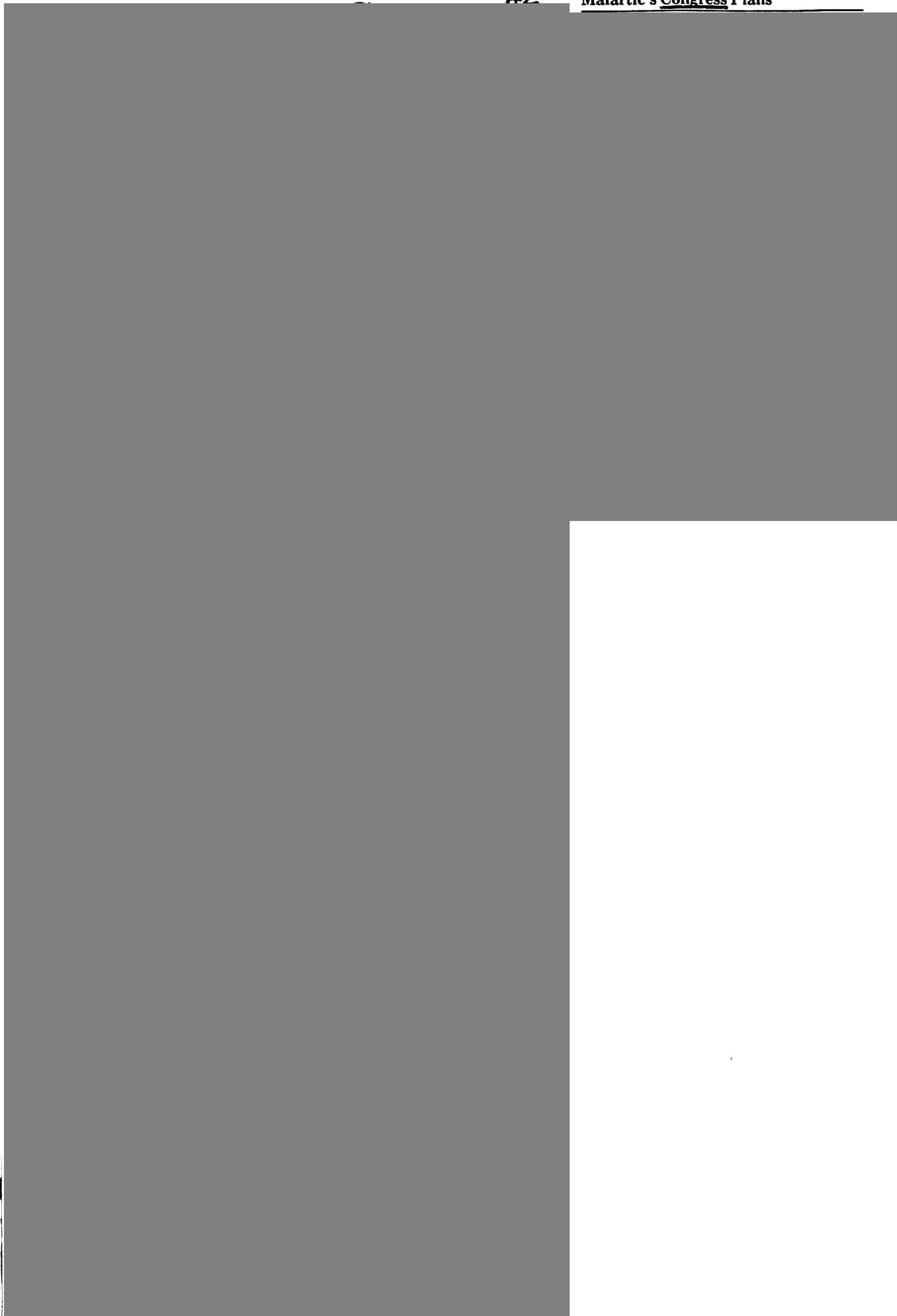
miles north of Republic WA Exploration discovered 13 areas



7-3-89 N-MINEE

A7

7-21-89 M.J. - LONDON
Malartic's Congress Plans



Mill to start up in May

1-1-90

No. MINER

be less than a year after the com-
missioned letter of intent

GOLD

minerals Today 9/90



