

CURRAGH RESOURCES INC.
FARO DEPOSIT
U/G EXPLORATION, DEVELOPMENT, & MINING
JULY 1987

017735

PREPARED BY
J. I. TATAK, P.Eng.
T. JENSEN
B. STRUTT
/DV

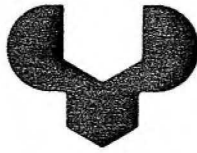
CURRAGH RESOURCES INC.
FARO DEPOSIT
U/G EXPLORATION, DEVELOPMENT, & MINING

INDEX

COVERING LETTER

COSTS SUMMARY
 MOBILIZATION, COLLAR EXCAVATION
 DECLINE
 RAISES
 MINING - TRACKLESS
 MINING - SLUSHER STOPES

DRAWINGS



CANADIAN MINE DEVELOPMENT

July 21st, 1987

Mr. M. Pelly, Vice President
Curragh Resources Inc.
202 - 2131 2nd Avenue
WHITEHORSE, YT
Y1A 1C3

Dear Mr. Pelly:

RE: CURRAGH RESOURCES - FARO DEPOSIT
UNDERGROUND EXPLORATION, DEVELOPMENT, AND MINING

Attached is our proposal for the above project covering layouts, schedules, and budget prices. Prices are based on work done by a contractor.

In order to achieve a production of 500,000 tonnes per year as of the second quarter 1989, preproduction development must commence in the third quarter 1988.

PREPRODUCTION DEVELOPMENT

The orebody would be opened by a decline, 3.35 m high and 6 m wide, driven at -15%. (Drawing Nos. 87-30-005 and 006) The decline would be driven in ore except for the first 185 metres. Two ventilation raises would provide fresh air and a second exitway.

MINING

We have divided the reserves as follows:

MORE THAN 3 METRES THICK	1,800,000 tonnes
NARROW ZONES	200,000 tonnes

Mining Thick Zone

Mining method would be room and pillar, modified to suit the trackless mobile equipment. The size of pillars would be flexible, according to ground conditions.

In general, mining would proceed by driving a series of drifts, up to 10 metres wide, and a series of 6 metre wide connecting crosscuts, leaving pillars 10 m x 10 m.

The drifts and crosscuts would be driven up dip at 15% inclination.



Mr. M. Pelly

- 2 -

July 21st, 1987

The backs of the drifts would follow the hangingwall contact of the ore. Ore thicker than the height of the drifts would be benched.

The overall ore extractions, as laid out, would be in the order of 72-75%, influenced by ground conditions.

Mining Narrow Zones

Mining narrow zones would be by slusher stopes, leaving up dip pillars. We have sized the room width 10 metres, leaving 4 metre wide pillars.

PRICES

Prices do not include cost of electric power and air heating (estimated at \$100,000 per year). Room and board costed in the prices is \$25 per manday, as we have ignored the cost of accommodation.

Owner would provide the geological control.

The unit prices were calculated as follows:

Mobilization & Surface Setup			\$ 395,000.00
Collar			\$ 25,000.00
Access Ramp	- in waste	- per foot	\$ 500.33
	- in ore	- per foot	\$ 504.85
Haulage Drifts	- single heading	- per foot	\$ 504.85
	- multiple heading	- per foot	\$ 438.61
Ventilation Raise		- per foot	\$ 264.43
Alimak Raise		- per foot	\$ 279.35

SCOPE OF PREPRODUCTION WORK

<u>Description</u>	<u>Feet</u>
Collar	30
Ramp in Waste	573
Ramp in Ore	1,511
Lower Haulage Drift No. 1	1,420
Lower Haulage Drift No. 2	1,360
Crosscuts (Remuck Station) (4)	140
Upper Haulage Drift No. 1	950
Upper Haulage Drift No. 2	790
Crosscuts (Remuck Station) (2)	70
Remuck	120
Total Drifts	6,964 feet
	2,123 metres
In Ore Total	6,361 feet
	1,939 metres
Tonnes of Ore	118,000 tonnes



Mr. M. Pelly

- 3 -

July 21st, 1987

MANPOWER

**Preproduction Development
Shift**

	<u>D</u>	<u>A</u>	<u>N</u>	<u>Total</u>
Project Superintendent	1	-	-	1
Shiftboss	1	1	1	3
Mechanic	1	1	1	3
Electrician	1	-	-	1
Surveyor	1	-	-	1
Clerk	1	-	-	1
Miner	3	3	3	9
Total	9	5	5	19

**Mining 1,500 TPD
Shift**

	<u>D</u>	<u>A</u>	<u>N</u>	<u>G</u>	<u>Total</u>
Project Manager	1	-	-	-	1
Night Captain	-	-	1	-	1
Shiftboss	1	1	-	1	3
Engineer/Surveyor	2	-	-	-	2
Master Mechanic	1	-	-	-	1
Chief Electrician	1	-	-	-	1
Clerk	1	-	-	-	1
Mechanic	1	1	1	1	4
Electrician	-	-	1	-	1
Miners:					
Drill Jumbo	2	2	-	2	6
Scoop Operator	1	1	-	1	3
Truck Operator	1	1	-	1	3
Rockbolter	1	1	-	1	3
Load/Blast	2	2	-	2	6
Services, Grader	2	-	2	-	4
Total	17	9	5	9	40



Mr. M. Pelly

- 4 -

July 21st, 1987

POWER REQUIREMENTS

Preproduction Development

Power Requirements	<u>Peak HP</u>	<u>Actual Load HP</u>	<u>Hours Operating</u>	<u>HP Hours</u>
3 boom electric/hydraulic jumbo	4 x 50	125	12	1,500
600 CFM electric compressor	125	75	24	1,800
Fresh water pump	10	6	24	144
Discharge pumps	43	27	24	648
Fans	3 x 75	135	24	3,240
Surface Plant	50	30	24	720
	<hr/>	<hr/>		<hr/>
	653	398		8,052

Peak HP = 653 HP = 487 KW
 Actual HP = 398 HP = 297 KW
 Consumption = 8,052 ÷ 24 = 336 HP = 258 KWh/hour

Mining

Power Requirements	<u>Peak HP</u>	<u>Actual Load HP</u>	<u>Hours Operating</u>	<u>HP Hours</u>
3 boom electric/hydraulic jumbo	4 x 50	125	20	2,500
600 CFM electric compressor	125	75	24	1,800
Fresh water pump	10	6	24	144
Discharge pumps	120	70	24	1,680
Fans	6 x 75	270	24	6,480
Surface Plant	75	45	24	1,080
	<hr/>	<hr/>		<hr/>
	980	591		13,684

Peak HP = 980 HP = 731 KW
 Actual HP = 591 HP = 441 KW
 Consumption = 13,684 ÷ 24 = 570 HP = 425 KWh/hour



Mr. M. Pelly

- 5 -

July 21st, 1987

We would like to emphasize that these prices are for budget purposes only. A site visit and detailed surface arrangement layouts are required to refine the proposal.

We hope that the information will serve your needs.

As discussed on the phone, we will be pleased to discuss the proposal with you or answer any questions you may have, during your visit to Toronto.

Yours very truly,

CANADIAN MINE DEVELOPMENT

J. I. TATAK, P.Eng.
Vice President - Engineering

dv

CURRAGH RESOURCES INC.
 FARO DEPOSIT
 PRODUCTION & COST BY QUARTERS

	1988				1989				1990				1991				1992			1993			TOTAL	
	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2					
TONNES MINED																								
PREPRODUCTION DEVELOPMENT	0	53,500	64,500																		118,000			
MINING 1989				125,000	125,000																	250,000		
1990						125,000	125,000	125,000	125,000													500,000		
1991										125,000	125,000	125,000	125,000									500,000		
1992 (JUMBO) (SLUSHER)														125,000	125,000	125,000	73,000					448,000		
																	52,000					52,000		
1993 (SLUSHER)																		125,000	23,000			148,000		
TOTAL TONNES ORE PRODUCED	0	53,500	64,500	125,000	125,000	125,000	125,000	125,000	125,000	125,000	125,000	125,000	125,000	125,000	125,000	125,000	125,000	125,000	125,000	23,000		2,016,000		
C O S T	\$ 714,803	\$1,408,686	\$1,660,791	\$3,274,122	\$3,213,750	\$3,213,750	\$3,213,750	\$3,213,750	\$3,213,750	\$3,213,750	\$3,213,750	\$3,213,750	\$3,213,750	\$3,213,750	\$3,213,750	\$3,213,750	\$3,213,750	\$3,213,750	\$3,213,750	\$3,213,750	\$3,566,830	\$4,062,500	\$747,500	\$54,000,232

DATE: 16-Jul 1987

CURRAGH RESOURCES INC.
 FARD DEPOSIT
 EXPLORATION PHASE
 SCOPE OF WORK

FAROSCOPE	DESCRIPTION	LENGTH (VOLUME)	1988				1989					
			4 TH QUARTER				1 ST QUARTER			2 ND QUARTER		
			MONTH 1	MONTH 2	MONTH 3	MONTH 4	MONTH 5	MONTH 6	MONTH 7	MONTH 8	MONTH 9	
1)	MOBILIZATION	1 L.S.	100%									
2)	SETUP CONTRACTOR'S FACILITIES	1 L.S.	50%	50%								
3)	SUPPLY 40 x 100 ATCO FOLDAWAY	1 L.S.		100%								
4)	PREPURCHASE SUPPLIES FOR FIRST 1,000 FT OF EXCAVATION	1 L.S.	100%									
5)	COLLAR TO 30 FEET	30 ft		30 ft								
6)	ACCESS RAMP IN WASTE (0 - 1,000 FT RATE)	573 ft			300 ft	273 ft						
7)	DRIVE RAMP IN ORE (0 - 1,000 FT RATE)	427 ft				427 ft						
	DRIVE RAMP IN ORE (BEYOND 1,000 FT RATE)	1,084 ft				247 ft	837 ft					
8)	DRIVE LOWER HAULAGE DRIFT - SINGLE HEADING	620 ft						50 ft				570 ft
	DRIVE LOWER HAULAGE DRIFT - MULTIPLE HEADING	2,300 ft						590 ft	650 ft	810 ft		250 ft
9)	DRIVE UPPER HAULAGE DRIFT - SINGLE HEADING	50 ft						50 ft				
	DRIVE UPPER HAULAGE DRIFT - MULTIPLE HEADING	1,760 ft						590 ft	515 ft	405 ft		250 ft
10)	EXCAVATE REMUCKS (VENT. DRIFTS)	120 ft				80 ft	40 ft					
11)	DRIVE VENT. RAISE. CRIBBED	125 ft				62 ft	63 ft					
12)	ALIMAK SETUP/TEARDOWN	1 L.S.							100%			
13)	DRIVE VENT. RAISE, ALIMAK	360 ft							90 ft	270 ft		
						53,500 tonnes ore			64,500 tonnes ore			

DATE: 21-Jul 1987

CURRAGH RESOURCES INC.
FARO DEPOSIT
EXPLORATION PHASE
CASH FLOW

FARFLO	DESCRIPTION	LENGTH (VOLUME)	1988			1989						TOTAL	
			4 TH QUARTER			1 ST QUARTER			2 ND QUARTER				
			MONTH 1	MONTH 2	MONTH 3	MONTH 4	MONTH 5	MONTH 6	MONTH 7	MONTH 8	MONTH 9		
1)	MOBILIZATION	1 L.S.	\$216,728										\$216,728
2)	SETUP CONTRACTOR'S FACILITIES	1 L.S.	\$52,049	\$52,049									\$104,097
3)	SUPPLY 40 x 100 ATCO FOLDAWAY	1 L.S.		\$74,015									\$74,015
4)	PREPURCHASE SUPPLIES FOR FIRST 1,000 FT OF EXCAVATION	1 L.S.	\$205,752										\$205,752
5)	COLLAR TO 30 FEET	30 ft		\$25,198									\$25,198
6)	ACCESS RAMP IN WASTE (0 - 1,000 FT RATE)	573 ft			\$89,013	\$81,002							\$170,015
7)	DRIVE RAMP IN ORE (0 - 1,000 FT RATE)	427 ft				\$126,695							\$126,695
	DRIVE RAMP IN ORE (BEYOND 1,000 FT RATE)	1,084 ft				\$124,698	\$422,559						\$547,257
8)	DRIVE LOWER HAULAGE DRIFT - SINGLE HEADING	620 ft						\$25,243				\$287,765	\$313,007
	DRIVE LOWER HAULAGE DRIFT - MULTIPLE HEADING	2,300 ft						\$258,780	\$285,097	\$355,274	\$109,653		\$1,008,803
9)	DRIVE UPPER HAULAGE DRIFT - SINGLE HEADING	50 ft						\$25,243					\$25,243
	DRIVE UPPER HAULAGE DRIFT - MULTIPLE HEADING	1,760 ft						\$258,780	\$225,884	\$177,637	\$109,653		\$771,954
10)	EXCAVATE REMUCKS (VENT. DRIFTS)	120 ft				\$35,089	\$17,544						\$52,633
11)	DRIVE VENT. RAISE. CRIBBED	125 ft				\$16,395	\$16,659						\$33,054
12)	ALIMAK SETUP/TEARDOWN	1 L.S.							\$9,264				\$9,264
13)	DRIVE VENT. RAISE, ALIMAK	360 ft							\$25,142	\$75,425			\$100,566
			\$474,529	\$151,261	\$89,013	\$383,878	\$456,763	\$568,045	\$545,386	\$608,336	\$507,070		\$3,784,280
				\$714,803			\$1,408,686			\$1,660,791			

DATE: 21-Jul 1987

COST SCHEDULE

CURRAGH RESOURCES INC.

FARO DEPOSIT

EXPLORATION PHASE

FARO

DESCRIPTION	LENGTH (VOLUME)	DAYS REQUIRED	SUPPORT LABOUR	DIRECT LABOUR	EQUIPMENT RENTAL	EQUIPMENT REPAIR	FUEL/LUBE	EXPLOSIVES & ACC.	DRILL STEEL & BITS	VENT. & ACC.	PIPE & ACC.	ELECT. CABLE	FARES DURING CONTRACT	FREIGHT DURING MOB/DEMOB	MATERIAL PURCHASE	INS & COMM 1.0%	FREIGHT / CONTRACT 3.0%	SMALL TOOLS & HOSES 1.0%	Mob.	6.5%	6.5%	SUBTOTAL	UNIT RATE	
																			SUBTOTAL	G & A 15.0%	TOTAL COST			MARGIN 10.0%
1) MOBILIZATION	1 L.S.	-	\$0	\$5,595	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$112,200	\$74,000	\$0	\$0	\$0	\$0	\$191,795	\$12,467	\$204,262	\$12,467	\$216,728	\$216,728
2) SETUP CONTRACTOR'S FACILITIES	1 L.S.	-	\$15,523	\$25,681	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50,918	\$0	\$0	\$0	\$92,122	\$5,988	\$98,109	\$5,988	\$104,097	\$104,097
3) SUPPLY 40 x 100 ATCO FOLDAWAY	1 L.S.	-	\$0	\$0	\$3,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22,500	\$40,000	\$0	\$0	\$0	\$65,500	\$4,258	\$69,758	\$4,258	\$74,015	\$74,015
4) PREPURCHASE SUPPLIES FOR FIRST 1,000 FT OF EXCAVATION	1,000 ft	-	\$0	\$0	\$0	\$35,996	\$0	\$52,568	\$23,949	\$11,390	\$16,610	\$16,250	\$0	\$0	\$0	\$1,568	\$4,703	\$1,568	\$164,601	\$24,690	\$189,292	\$16,460	\$205,752	\$205.75
5) COLLAR TO 30 FEET	30 ft	-	\$0	\$3,407	\$7,219	\$2,664	\$1,373	\$1,745	\$1,463	\$342	\$498	\$488	\$0	\$0	\$0	\$192	\$576	\$192	\$20,158	\$3,024	\$23,182	\$2,016	\$25,198	\$839.93
6) ACCESS RAMP IN WASTE (0 - 1,000 FT RATE)	573 ft	-	\$40,156	\$41,915	\$36,924	\$0	\$10,452	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,294	\$3,883	\$1,294	\$135,919	\$20,388	\$156,307	\$13,592	\$169,898	\$296.51
7) DRIVE RAMP IN ORE (0 - 1,000 FT RATE)	427 ft	-	\$29,924	\$31,235	\$27,516	\$0	\$7,788	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$965	\$2,894	\$965	\$101,287	\$15,193	\$116,480	\$10,129	\$126,608	\$296.51
DRIVE RAMP IN ORE (BEYOND 1,000 FT)	1,084 ft	-	\$75,967	\$79,295	\$69,853	\$39,393	\$19,772	\$57,636	\$27,078	\$12,347	\$18,005	\$17,615	\$0	\$0	\$0	\$4,170	\$12,509	\$4,170	\$437,809	\$65,671	\$503,480	\$43,781	\$547,261	\$504.85
8) DRIVE LOWER HAULAGE DRIFT - SINGLE HEADING	620 ft	-	\$43,450	\$45,353	\$39,953	\$22,531	\$11,309	\$32,965	\$15,488	\$7,062	\$10,298	\$10,075	\$0	\$0	\$0	\$2,385	\$7,154	\$2,385	\$250,407	\$37,561	\$287,968	\$25,041	\$313,009	\$504.85
DRIVE LOWER HAULAGE DRIFT - MULTIPLE HEADING	2,300 ft	-	\$120,888	\$126,178	\$111,159	\$84,157	\$44,712	\$122,291	\$57,454	\$26,197	\$38,203	\$37,375	\$0	\$0	\$0	\$7,686	\$23,058	\$7,686	\$807,045	\$121,057	\$928,101	\$80,704	\$1,008,806	\$438.61
9) DRIVE UPPER HAULAGE DRIFT - SINGLE HEADING	50 ft	-	\$3,504	\$3,658	\$3,222	\$1,817	\$912	\$2,659	\$1,249	\$570	\$831	\$813	\$0	\$0	\$0	\$192	\$577	\$192	\$20,194	\$3,029	\$23,223	\$2,019	\$25,243	\$504.85
DRIVE UPPER HAULAGE DRIFT - MULTIPLE HEADING	1,760 ft	-	\$92,506	\$96,554	\$85,061	\$64,398	\$34,214	\$93,579	\$43,965	\$20,046	\$29,234	\$28,600	\$0	\$0	\$0	\$5,882	\$17,645	\$5,882	\$617,565	\$92,635	\$710,199	\$61,756	\$771,956	\$438.61
10) EXCAVATE REMUCKS (VENT. DRIFTS)	120 ft	-	\$6,307	\$6,583	\$5,800	\$4,391	\$2,333	\$6,380	\$2,998	\$1,367	\$1,993	\$1,950	\$0	\$0	\$0	\$401	\$1,203	\$401	\$42,107	\$6,316	\$48,423	\$4,211	\$52,633	\$438.61
11) DRIVE VENT. RAISE. CRIBBED	125 ft	-	\$0	\$14,513	\$429	\$804	\$585	\$2,763	\$1,471	\$0	\$745	\$0	\$0	\$0	\$3,875	\$252	\$756	\$252	\$26,443	\$3,966	\$30,409	\$2,644	\$33,054	\$264.43
12) ALIMAK SETUP/TEARDOWN	1 L.S.	-	\$0	\$4,572	\$1,108	\$1,097	\$281	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$71	\$212	\$71	\$7,411	\$1,112	\$8,523	\$741	\$9,264	\$9,263.68
13) DRIVE VENT. RAISE, ALIMAK	360 ft	-	\$0	\$39,186	\$9,497	\$11,243	\$2,412	\$8,564	\$5,720	\$0	\$0	\$0	\$0	\$0	\$0	\$766	\$2,299	\$766	\$80,454	\$12,068	\$92,522	\$8,045	\$100,567	\$279.35
			\$428,225	\$523,722	\$400,740	\$268,490	\$136,144	\$381,151	\$180,834	\$79,320	\$116,417	\$113,165	\$112,200	\$96,500	\$94,793	\$25,823	\$77,469	\$25,823	\$3,060,815	\$429,422	\$3,490,237	\$293,852	\$3,784,089	

CURRAGH RESOURCES LIMITED

FARO DEPOSIT

MOBILIZATION

EXPLORATION PHASE

1/ PREMOB LABOUR

- This includes purchasing, packaging and shipping of
supplies and materials to site.

LABOUR - Estimate 15 mandays @ \$13.50/hr.
= \$13.50/hr. x 8 hrs. x 1.34 x 15 days = \$ 2,171.00

2/ FREIGHT

Load # 1 - 3 Boom Drill Jumbo	Brampton - Site	7,500.00
Load # 2 - ST 8 Scooptram	Brampton - Site	7,500.00
Load # 3 - CM 1824 Truck	Brampton - Site	7,500.00
Load # 4 - CM 1824 Truck	Brampton - Site	7,500.00
Load # 5 - Grader & Misc. gear	Vancouver - Site	4,500.00
Load # 6 - ST 8 Scooptram	Brampton - Site	7,500.00
Load # 7 - Office/Dry Trailer	Whitehorse - Site	1,000.00
Load # 8 - Powder/Cap Magazines	Whitehorse - Site	1,000.00
Load # 9 - Electrics & Misc. Gear	Brampton - Site	7,500.00
Load # 10 - Warehouse Trailer & Misc. Gear	Brampton - Site	7,500.00
Load # 11 - Rockbolt Jumbo	Brampton - Site	7,500.00
Load # 12 - Alimak c/w Rails	Brampton - Site	7,500.00

SUBTOTAL \$74,000.00

3/ FARES & TRAVEL EXPENSES

Job Length = approx. 240 days = 5 rotations (45 days ea.)
plus one trip at Xmas = 6 rotations
Crew size = 17 from Sudbury, Ont.
Return fare to Sudbury = \$1,100
Cost = 17 men x \$1,100 x 6 trips = 112,200.00

4/ SITE UNLOADING

- Estimate 1 load = 1 manday @ \$285.34
- 12 loads x \$285.34 = 3,424.08

	SUBTOTAL	\$191,795.08
G & A	6.5%	\$12,466.68
TOTAL COST		\$204,261.76
MARGIN	6.5%	\$12,466.68
	TOTAL	\$216,728.44

CURRAGH RESOURCES LIMITED
 FARO DEPOSIT
 SETUP CONTRACTOR'S FACILITIES

1/ PRELIMINARY SITE SETUP

- Setup comp., gensets, office/dry trailers, Shop, Etc.	
- Labour : Estimate 4 men x 10 days x \$285.34 =	11,413.60
- Materials : Allow \$1,000 for genset. lean-to, shop sills, etc.	1,000.00
	12,413.60

2/ MODIFY DRY TRAILER

- Allow \$7,000 to convert CMD trailer into a Dry Trailer	7,000.00
---	----------

3/ SETUP SEPTIC SYSTEM

- Material - say	1,500.00
- Excavating Equipment, sand, gravel, etc.	3,000.00
- Labour - 3 days @ \$ 285.34/day x 2 men	1,712.04
	6,212.04

4/ INSTALL F.W. PUMP & 2" INSULATED WATER LINE

- 2" line - \$1.81/ft x 1,000 ft (incl. couplings)	1,810.00
- Insul., Heat Tracing - \$6.00/ft x 1,000 ft	6,000.00
- Pump House - say	500.00
- Electric cable \$2.50/ft x 1,000 ft	2,500.00
- 15 kw Transformer, Misc. Electrics	1,000.00
- Labour - Install 200 ft/manday 5 days x \$285.34/day	1,426.70
	13,236.70

5/ SETUP SURFACE ELECTRICS

- Material :	
- Lighting Transformers - 3 @ \$1,000 ea	3,000.00
- Starters - #4 -2 @ \$2,000 ea	4,000.00
- Switch Gear - say	5,000.00
- Power Rack - say	1,000.00
- Misc. Supplies - say	500.00
- Lights, Etc. - say	1,000.00
- Surface Cables - 500 ft @ \$17.23/ft	8,615.00
- Labour :	
- Say 1 Elect. 21 ms @ \$285.34/day	5,992.14
- Plus Helper 14 ms @ \$285.34/day	3,994.76
	33,101.90

6/ INSTALL 6" DISCHARGE LINE

- Materials :	
- 6 " Discharge Line - 250 ft @ \$8.09/ft	2,022.50
- Labour - say 2 m/s @ \$285.34/day	570.68

	2,593.18

6/ INSTALL 4" AIRLINE - SHOP - COLLAR

- Materials :	
- 4 " Airline - 250 ft @ \$5.88/ft	1,470.00
- Labour - say 2 m/s @ \$285.34/day	570.68

	2,040.68

7/ SUPPORT LABOUR DURING MOB

- Supt. - 21 days @ \$301.61/day	6,333.81
- Mech. - 21 days @ \$285.34/day	5,992.14
- Sur/Exp - 14 days @ \$228.39/day	3,197.46

	15,523.41

	SUBTOTAL	\$92,121.51
G & A	6.5%	\$5,987.90
TOTAL COST		\$98,109.41
MARGIN	6.5%	\$5,987.90
	TOTAL	\$104,097.31

C U R R A G H R E S O U R C E S L I M I T E D

F A R O D E P O S I T

A T C O S H O P P U R C H A S E

1/ ATCO FOLDAWAY PURCHASE

- 40 x 100 ft, used	40,000.00
- Freight - 3 loads @ \$7,500 ea.	22,500.00

2/ CRANE RENTAL TO ERECT SHOP

- Say 40 Hrs @ \$75.00/hr =	3,000.00
-----------------------------	----------

SUBTOTAL	\$65,500.00
----------	-------------

G & A	6.5%	\$4,257.50
-------	------	------------

MARGIN	6.5%	\$4,257.50
--------	------	------------

TOTAL	\$74,015.00
-------	-------------

C U R R A G H R E S O U R C E S L I M I T E D

F A R O D E P O S I T

M O B I L I Z A T I O N

M I N I N G P H A S E

1/ FREIGHT

Load # 1 - 3 Boom Drill Jumbo	Brampton - Site	7,500.00
Load # 2 - ST 8 Scooptram	Brampton - Site	7,500.00
Load # 3 - CM 1824 Truck	Brampton - Site	7,500.00
Load # 4 - 16 Man Carrier & 2 Man Carrier	Brampton - Site	7,500.00
Load # 5 - Additional Compressors for Slusher Stopping	Brampton - Site	7,500.00
	SUBTOTAL	\$37,500.00

2/ SITE UNLOADING

- Estimate 1 load = 1 manday @ \$285.34		
- 5 loads x \$285.34 =		\$1,426.70

3/ UPGRADE MINE DRY TO ACCOMODATE 40 PEOPLE

- Add 1 more dry trailer		
Modify CMD trailer - allow		\$7,000.00
Freight - Brampton - Site		\$7,500.00
	SUBTOTAL	\$53,426.70

G & A	6.5%	\$3,472.74
TOTAL COST		\$56,899.44
MARGIN	6.5%	\$3,472.74
	TOTAL	\$60,372.17

CURRAGH - FARO DEPOSIT

11.0 x 20.0 FT COLLAR

BID SUMMARY SHEET

<u>CATEGORY</u>		<u>COST / FT</u>
DIRECT LABOUR		\$113.55
SUPPORT LABOUR		\$0.00
STEEL & BITS		\$48.76
EXPLOSIVES & ACCESSORIES		\$58.18
EQUIPMENT RENTAL		\$240.64
EQUIPMENT REPAIR		\$88.79
FUEL & LUBE		\$45.78
PIPE & ACCESSORIES		\$16.61
VENTILATION & ACCESSORIES		\$11.39
ELECTRIC CABLE		\$16.25
HOSES, SMALL TOOLS		\$6.40
INSURANCE, COMMUNICATION		\$6.40
FREIGHT DURING CONTRACT		\$19.20
		<hr/>
SUBTOTAL		\$671.96
G & A	15.0%	\$100.79
		<hr/>
TOTAL COST		\$772.75
MARGIN	10.0%	\$67.20
PRICE		\$839.95 /FT

(B:FARCOLL)

VARIABLES

S/T HOURS	40 /WK	LABOUR	QUANTITY	RATE/HR	BONUS/HR	EXPLOSIVES COSTS	STKS/CSE	# LIFTERS	19
DAYS/WK	7 /WK	PROJ. SUPT	0	\$17.00	\$0.00	CILGEL \$97.86 PER CSE.	125	# PRDHOLE	11 HALF AMEX
O/T HOURS	30 /WK	SHIFTBOSS	0	\$16.25	\$0.00	AMEX \$0.45 PER LB.	1.04	# PERIM	15
O/T RATE	1.50	MECHANIC	0	\$16.00	\$0.00	XACTEX \$147.95 PER CSE.	100	# CUT	3
BONUS	\$0.00 /HR	ELECT.	0	\$16.00	\$0.00	CAPS \$2.14 EACH	-	TOTAL	48
HRLY FRNG	20%	MINER	2	\$15.00	\$0.00	MISC \$5.00	-	DR REPAIR	\$0.15 /FT
STAFF FRG	20%	SURVEYOR	0	\$14.00	\$0.00	GAS COST \$0.600 /LITRE			
RM+BD	\$25.00 /DAY	CLERK	0	\$10.00	\$0.00	FUEL COST \$0.400 /LITRE			
HOLES/RND	111	EXPEDITOR	0	\$12.50	\$0.00	G & A 15.00%	HOSES 1.00%		
HOLE/DEPT	12 FEET	STEEL & BITS COST/FT		\$0.40		MARGIN 10.00%	INS/COMM 1.00%		
AVER BRK	11.00 FEET						FREIGHT 3.00%		
MONTH	30 DAYS								
ADVANCE	4.29 FEET/DAY								

DIRECT LABOUR COSTS

DESCRIPTION	RATE PER HOUR	HOURS / WEEK			WAGE COST /WEEK	WAGE COST	DAILY BONUS COST	SUBTOTAL COST	FRINGES 20%	ROOM & BOARD	TOTAL PER MAN	# MEN REQ'D	TOTAL DAILY
		STRAIGHT	OVERTIME	TOTAL									
MINER	\$15.00	40	30	85	\$1,275.00	\$182.14	\$0.00	\$182.14	\$36.43	\$25.00	\$243.57	2	\$487.14
DIRECT LABOUR COST= \$487.14 /DAY @ 4.29 FT/DAY = \$113.55 /FT												2	\$487.14

SUPPORT LABOUR COST

DESCRIPTION	RATE PER HOUR	HOURS / WEEK			WAGE COST /WEEK	WAGE COST	DAILY BONUS COST	SUBTOTAL COST	FRINGES 20%	ROOM & BOARD	TOTAL PER MAN	# MEN REQ'D	TOTAL DAILY
		STRAIGHT	OVERTIME	TOTAL									
PROJ. SUPT	\$17.00	40	30	85	\$1,445.00	\$206.43	\$0.00	\$206.43	\$41.29	\$25.00	\$272.71	0	\$0.00
SHIFTBOSS	\$16.25	40	30	85	\$1,381.25	\$197.32	\$0.00	\$197.32	\$39.46	\$25.00	\$261.79	0	\$0.00
MECHANIC	\$16.00	40	30	85	\$1,360.00	\$194.29	\$0.00	\$194.29	\$38.86	\$25.00	\$258.14	0	\$0.00
ELECT.	\$16.00	40	30	85	\$1,360.00	\$194.29	\$0.00	\$194.29	\$38.86	\$25.00	\$258.14	0	\$0.00
SURVEYOR	\$14.00	40	30	85	\$1,190.00	\$170.00	\$0.00	\$170.00	\$34.00	\$25.00	\$229.00	0	\$0.00
CLERK	\$10.00	40	30	85	\$850.00	\$121.43	\$0.00	\$121.43	\$24.29	\$25.00	\$170.71	0	\$0.00
EXPEDITOR	\$12.50	40	30	85	\$1,062.50	\$151.79	\$0.00	\$151.79	\$30.36	\$25.00	\$207.14	0	\$0.00
SUPPORT LABOUR COST = \$0.00 /DAY @ 4.29 FT/DAY = \$0.00 /FT												0	\$0.00

 HEADING SIZE = 11.0 x 20.0 FT

 DRILL STEEL & BIT COST

HOLES DRILLED PER ROUND	HOLE TOTAL FT DRILLED		STEEL & BIT COST	TOTAL STEEL &	AVERAGE BREAK	STEEL & BITS
	DEPTH	PER ROUND	PER FT DRILLED	BITS COST	PER ROUND	COST PER FT
108	12.00	1296 FT	\$0.40	\$518.40	11.00 FT	\$47.13
3 (REAMED)	12.00	36 FT	\$0.50	\$18.00	11.00 FT	\$1.64
TOTAL						\$48.76 /FT

 EXPLOSIVES & ACCESSORIES COST

HEADING SIZE = 11.0 x 20.0 FT
 HOLES DRILLED = 111
 HOLES BLASTED = 48
 HOLE DIAMETER = 1 3/4 "
 POWDER TO BE USED = AMEX, CILBEL 70%, XACTEX
 AVERAGE BREAK/RND = 11.00 FEET

DESCRIPTION	NO. OF	STICKS	TOTAL	STICKS	CASE	COST PER	TOTAL
	HOLES	PER HOLE	STICKS	/CASE	REQ'D	CASE	COST
PRIMER H.E.	48	1	48	125	0.38	\$97.86	\$37.58
PERIMETER XACTEX	15	4	60	100	0.60	\$147.95	\$88.77
LIFTERS & H.E.	19	16	304	125	2.43	\$97.86	\$238.00
CUT H.E.	3	16	48	125	0.38	\$97.86	\$37.58
BLASTHOLES AMEX	11	1.04	137	-	-	\$0.45 /LB.	\$61.78
		(LB/FT)	(LB.)				
SUBTOTAL							\$463.70
12.00% F.S.T.							\$55.64
0.00% P.S.T.							\$0.00
TOTAL							\$519.34

DESCRIPTION	NO. OF	CAPS PER	TOTAL CAPS	COST PER	COST PER	COST OF	TOTAL
	HOLES	HOLE	OR FUSE	CAP	ROUND	MISC.	COST
DETONATORS	48	1	48	\$2.14	\$102.72	\$5.00	\$107.72
12.00% F.S.T.							\$12.93
0.00% P.S.T.							\$0.00

TOTAL EXPLOSIVES COST = \$519.34
 TOTAL DETONATORS COST = \$120.65

TOTAL \$120.65

TOTAL COST = \$639.99 PER RND / 11.00 FT = \$58.18 / FT

EQUIPMENT RENTAL AND REPAIR COST

EQUIPMENT DESCRIPTION	COMMENTS	RENT PER UNIT	NO. OF UNITS REQ'D	TOTAL RENTAL COST/MONTH	REPAIR COST PER HR., M.	HRS. OPERATING PER DAY OR M. DRILLED	REPAIR COST PER DAY	RENTAL COST PER DAY	REPAIR COST PER DAY
3 BOOM ELECTRIC/HYDRAULIC JUMBO		\$10,000	1	\$10,000	\$15.00	3 HR	\$45.00	\$333.33	\$45.00
DRILL REPAIR		-	-	-	\$0.15	476 FT	\$71.43	\$0.00	\$71.43
ST - 8 SCOOPTRAM		\$10,000	2	\$20,000	\$29.00	4 HR	\$116.00	\$666.67	\$116.00
CM 1824 TRUCK		\$8,700	1	\$8,700	\$23.00	0 HR	\$0.00	\$290.00	\$0.00
ROCKBOLT JUMBO		\$3,500	1	\$3,500	\$18.00	0 HR	\$0.00	\$116.67	\$0.00
600 CFM ELECT. COMPRESSOR		\$2,100	1	\$2,100	\$1.50	10 HR	\$15.00	\$70.00	\$15.00
FRESHWATER PUMP - ELECTRIC		\$210	1	\$210	\$0.25	24 HR	\$6.00	\$7.00	\$6.00
WAREHOUSE TRAILER		\$300	1	\$300	\$0.00	0 HR	\$0.00	\$10.00	\$0.00
OFFICE/DRY TRAILER		\$600	1	\$600	\$0.00	0 HR	\$0.00	\$20.00	\$0.00
MINE LIGHTS & CHARGER		\$10	20	\$200	\$1.25	0 HR	\$0.00	\$6.67	\$0.00
38 " x 75 HP JOY FAN		\$450	1	\$450	\$0.25	0 HR	\$0.00	\$15.00	\$0.00
OXY & ACET TORCHES		\$50	1	\$50	\$1.00	8 HR	\$8.00	\$1.67	\$8.00
SAFETY GEAR		\$100	1	\$100	\$0.00	0 HR	\$0.00	\$3.33	\$0.00
FIRST AID GEAR		\$150	1	\$150	\$0.00	0 HR	\$0.00	\$5.00	\$0.00
SURVEY GEAR		\$450	1	\$450	\$1.00	8 HR	\$8.00	\$15.00	\$8.00
SHOP TOOLS		\$1,000	1	\$1,000	\$0.00	0 HR	\$0.00	\$33.33	\$0.00
SURVEY GEAR		\$450	1	\$450	\$1.00	2 HR	\$2.00	\$15.00	\$2.00
POWDER/CAP MAGAZINE		\$750	1	\$750	\$0.00	0 HR	\$0.00	\$25.00	\$0.00
PICKUP / CREW VAN		\$1,000	4	\$4,000	\$4.50	12 HR	\$54.00	\$133.33	\$54.00
JACKLEG / STOPER		\$220	4	\$880	\$1.00	8 HR	\$8.00	\$29.33	\$8.00
400 AMP WELDER		\$150	1	\$150	\$0.25	8 HR	\$2.00	\$5.00	\$2.00
POWDER/CAP MAGAZINE		\$700	1	\$700	\$0.00	0 HR	\$0.00	\$23.33	\$0.00
U/G PUMPS (13,30 HP)		\$1,000	2	\$2,000	\$3.00	0 HR	\$0.00	\$66.67	\$0.00
GROUT PUMP		\$1,000	1	\$1,000	\$0.00	0 HR	\$0.00	\$33.33	\$0.00
GRADER/DOZER		\$4,000	1	\$4,000	\$15.00	3 HR	\$45.00	\$133.33	\$45.00
INTERMEDIATE LOADER		\$200	1	\$200	\$0.25	2 HR	\$0.50	\$6.67	\$0.50

TOTALS

\$61,940 PER MONTH

\$2,064.67

\$380.93

TAKE 50%
ADVANCE PER DAY

\$1,032.33

4.29 FT/DAY

RENTALS

REPAIRS

COST/FT

\$240.64

\$88.79

FUEL / LUBE COST

EQUIPMENT DESCRIPTION	ENGINE	NUMBER OF UNITS REQ'D	OPERATING HOURS PER DAY PER UNIT	TOTAL OPERATING HOURS PER DAY	FUEL REQ'D PER HOUR	TOTAL FUEL PER DAY	FUEL COST PER LITRE	FUEL COST PER DAY	LUBE COST @ 15% OF FUEL COST	TOTAL OPER. COST PER DAY
3 BOOM ELECT/HYD JUMBO		1	3	3	16.7 LT	50.0	\$0.40	\$19.99	\$3.00	\$22.99
ST - 8 SCOOPTRAM		2	2	4	48.0 LT	192.0	\$0.40	\$76.80	\$11.52	\$88.32
CM 1824 TRUCK		1	0	0	48.0 LT	0.0	\$0.40	\$0.00	\$0.00	\$0.00
ROCKBOLT JUMBO		1	0	0	16.7 LT	0.0	\$0.40	\$0.00	\$0.00	\$0.00
GRADER/DOZER		1	3	3	16.7 LT	50.0	\$0.40	\$19.99	\$3.00	\$22.99
PICKUP / CREW VAN		2	3	6	15.0 LT	90.0	\$0.60	\$54.00	\$8.10	\$62.10

\$196.40

OPERATING COST = \$196.40 /DAY @

4.29 FT/DAY = \$45.78 COST/FT

 PIPE & ACCESSORY COST

ITEMS	2" LINE			4" LINE (AIR)			4" LINE			6" LINE (PUMP)			8" LINE		
	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE
PIPES	100	\$1.39	\$139.00	100	\$3.45	\$345.00	0	\$3.45	\$0.00	100	\$4.80	\$480.00	0	\$0.00	\$0.00
COUPLING	7	\$4.80	\$33.60	7	\$9.60	\$67.20	0	\$9.60	\$0.00	5	\$16.55	\$82.75	0	\$0.00	\$0.00
VALVES	1	\$39.99	\$39.99	1/500'	\$105.80	\$21.16	0	\$105.80	\$0.00	1/500'	\$198.85	\$39.77	0	\$0.00	\$0.00
ELBOWS 90 DEG	0	\$6.40	\$0.00	0	\$18.05	\$0.00	0	\$18.05	\$0.00	1/200'	\$45.65	\$22.83	0	\$0.00	\$0.00
ELBOWS 45 DEG	0	\$6.40	\$0.00	0	\$18.05	\$0.00	0	\$18.05	\$0.00	1/200'	\$45.65	\$22.83	0	\$0.00	\$0.00
TEES	1	\$6.40	\$6.40	1/500'	\$27.85	\$5.57	0	\$27.85	\$0.00	1/500'	\$73.55	\$14.71	0	\$0.00	\$0.00
REDUCERS	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00
CHAIN HANGERS	7	\$2.92	\$20.44	7	\$2.92	\$20.44	0	\$2.92	\$0.00	5	\$2.92	\$14.60	0	\$0.00	\$0.00
3/16 CHAIN	50	\$0.32	\$16.00	50	\$0.32	\$16.00	0	\$0.32	\$0.00	50	\$0.32	\$16.00	0	\$0.00	\$0.00
			SUBTOTAL			\$255.43			\$475.37			\$693.48			\$0.00
			DAMAGE @ 10%			\$25.54			\$47.54			\$69.35			\$0.00
			F.S.T. @ 6%			\$16.86			\$31.37			\$45.77			\$0.00
			P.S.T. @ 0%			\$0.00			\$0.00			\$0.00			\$0.00
			TOTALS			\$297.83			\$554.28			\$808.60			\$0.00
			COST/FT = \$16.61 / FT			\$2.98 / FT			\$5.54 / FT			\$0.00 / FT			\$8.09 / FT
															\$0.00

 VENTILATION & ACCESSORIES COST

ITEMS	12" DIA.			30" DIA.			36" DIA.			42" DIA.			48" DIA.		
	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE
VENTILATION PIPE	0	\$2.39	\$0.00	0	\$0.00	\$0.00	0	\$5.65	\$0.00	0	\$6.81	\$0.00	50	\$7.85	\$392.50
VENTILATION TUBE	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00
PIPE COUPLING	0	\$2.10	\$0.00	0	\$0.00	\$0.00	0	\$2.25	\$0.00	0	\$2.10	\$0.00	3	\$2.10	\$6.30
PIPE HANGERS	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00
PIPE ELBOWS	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00
PIPE TEES	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00
TUBE COUPLING	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00
TUBE HANGER	0	\$2.85	\$0.00	0	\$0.00	\$0.00	0	\$2.92	\$0.00	0	\$2.85	\$0.00	3	\$2.85	\$8.55
MESSENGER WIRE	0	\$0.33	\$0.00	0	\$0.00	\$0.00	0	\$0.32	\$0.00	0	\$0.33	\$0.00	50	\$0.33	\$16.50
			SUBTOTAL			\$0.00			\$0.00			\$0.00			\$423.85
			DAMAGE @ 20%			\$0.00			\$0.00			\$0.00			\$84.77
			F.S.T. @ 12%			\$0.00			\$0.00			\$0.00			\$61.03
			P.S.T. @ 0%			\$0.00			\$0.00			\$0.00			\$0.00
			TOTALS			\$0.00			\$0.00			\$0.00			\$569.65
			COST/FT = \$11.39 / FT			\$0.00 / FT			\$0.00 / FT			\$0.00 / FT			\$11.39

 ELECTRIC CABLE COST

ITEMS	3C #12			3C #6 (PUMP)			3C #2			3C #4/0			BLAST LINE (2C #18)		
	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE
ELECTRIC CABLE	0	\$0.87	\$0.00	1	\$2.29	\$2.29	0	\$4.29	\$0.00	1	\$10.40	\$10.40	1	\$0.50	\$0.50
SUBTOTAL			\$0.00			\$2.29			\$0.00			\$10.40			\$0.50
DAMAGE @ 10%			\$0.00			\$0.23			\$0.00			\$1.04			\$0.05
F.S.T. @ 12%			\$0.00			\$0.30			\$0.00			\$1.37			\$0.07
P.S.T. @ 0%			\$0.00			\$0.00			\$0.00			\$0.00			\$0.00
TOTALS			\$0.00			\$2.82			\$0.00			\$12.81			\$0.62
COST/FT = \$16.25			\$0.00 /FT			\$2.82 /FT			\$0.00 /FT			\$12.81 /FT			\$0.62

CURRAGH - FARD DEPOSIT

11.0 x 20.0 FT

RAMP

IN WASTE

BID SUMMARY SHEET

<u>CATEGORY</u>		<u>COST / FT</u>
DIRECT LABOUR		\$73.15
SUPPORT LABOUR		\$70.08
STEEL & BITS		\$23.18
EXPLOSIVES & ACCESSORIES		\$52.12
EQUIPMENT RENTAL		\$64.44
EQUIPMENT REPAIR		\$35.74
FUEL & LUBE		\$18.24
PIPE & ACCESSORIES		\$16.61
VENTILATION & ACCESSORIES		\$11.39
ELECTRIC CABLE		\$16.25
HOSES, SMALL TOOLS		\$3.81
INSURANCE, COMMUNICATION		\$3.81
FREIGHT DURING CONTRACT		\$11.44
		<hr/>
SUBTOTAL		\$400.26
G & A	15.0%	\$60.04
		<hr/>
TOTAL COST		\$460.30
MARGIN	10.0%	\$40.03
PRICE		\$500.33 /FT

(B:FARAMP1)

VARIABLES

S/T HOURS	40 /WK	LABOUR	QUANTITY	RATE/HR	BONUS/HR	EXPLOSIVES COSTS	STKS/CSE	# LIFTERS	19		
DAYS/WK	7 /WK	PROJ. SUPT	1	\$17.00	\$12.00	CILBEL	\$97.86 PER CSE.	125	# PRDHOLE	11 HALF AMEX	CURRAGH-FARD DEPOSIT
D/T HOURS	16 /WK	SHIFTBOSS	3	\$16.25	\$12.00	AMEX	\$0.45 PER LB.	1.04	# PERIM	15	
D/T RATE	1.50	MECHANIC	3	\$16.00	\$6.00	XACTEX	\$147.95 PER CSE.	100	# CUT	3	11 FT X 20 FT RAMP
BONUS	\$12.00 /HR	ELECT.	1	\$16.00	\$6.00	CAPS	\$2.14 EACH	-	TOTAL	48	
HRLY FRNG	20%	MINER	9	\$15.00	\$12.00	MISC	\$5.00	-	DR REPAIR	\$0.15 /FT	IN WASTE
STAFF FRG	20%	SURVEYOR	1	\$14.00	\$0.00						
RM+BD	\$25.00 /DAY	CLERK	1	\$10.00	\$0.00	GAS COST	\$0.600 /LITRE	HOSES	1.00%		
HOLDS/RND	51	EXPEDITOR	0	\$12.50	\$0.00	FUEL COST	\$0.400 /LITRE	INS/COMM	1.00%		
HOLE/DEPT	14 FEET					G & A	15.00%	FREIGHT	3.00%		
AVER BRK	12.50 FEET	STEEL & BITS COST/FT		\$0.40		MARGIN	10.00%				
MONTH	30 DAYS										
ADVANCE	37.50 FEET/DAY										

DIRECT LABOUR COSTS

DESCRIPTION	RATE PER HOUR	HOURS / WEEK			WAGE COST /WEEK	WAGE COST	DAILY BONUS COST	SUBTOTAL COST	FRINGES 20%	ROOM & BOARD	TOTAL PER MAN	# MEN REQ'D	TOTAL DAILY
		STRAIGHT	OVERTIME	TOTAL									
MINER	\$15.00	40	16	64	\$960.00	\$137.14	\$96.00	\$233.14	\$46.63	\$25.00	\$304.77	9	\$2,742.94

DIRECT LABOUR COST= \$2,742.94 /DAY @ 37.50 FT/DAY = \$73.15 /FT

SUPPORT LABOUR COST

DESCRIPTION	RATE PER HOUR	HOURS / WEEK			WAGE COST /WEEK	WAGE COST	DAILY BONUS COST	SUBTOTAL COST	FRINGES 20%	ROOM & BOARD	TOTAL PER MAN	# MEN REQ'D	TOTAL DAILY
		STRAIGHT	OVERTIME	TOTAL									
PROJ. SUPT	\$17.00	40	16	64	\$1,088.00	\$155.43	\$96.00	\$251.43	\$50.29	\$25.00	\$326.71	1	\$326.71
SHIFTBOSS	\$16.25	40	16	64	\$1,040.00	\$148.57	\$96.00	\$244.57	\$48.91	\$25.00	\$318.49	3	\$955.46
MECHANIC	\$16.00	40	16	64	\$1,024.00	\$146.29	\$48.00	\$194.29	\$38.86	\$25.00	\$258.14	3	\$774.43
ELECT.	\$16.00	40	16	64	\$1,024.00	\$146.29	\$48.00	\$194.29	\$38.86	\$25.00	\$258.14	1	\$258.14
SURVEYOR	\$14.00	40	16	64	\$896.00	\$128.00	\$0.00	\$128.00	\$25.60	\$25.00	\$178.60	1	\$178.60
CLERK	\$10.00	40	16	64	\$640.00	\$91.43	\$0.00	\$91.43	\$18.29	\$25.00	\$134.71	1	\$134.71
EXPEDITOR	\$12.50	40	16	64	\$800.00	\$114.29	\$0.00	\$114.29	\$22.86	\$25.00	\$162.14	0	\$0.00

SUPPORT LABOUR COST = \$2,628.06 /DAY @ 37.50 FT/DAY = \$70.08 /FT

10 \$2,628.06

 HEADING SIZE = 11.0 x 20.0 FT

 DRILL STEEL & BIT COST

HILES DRILLED PER ROUND	HOLE TOTAL FT DRILLED DEPTH	PER ROUND	STEEL & BIT COST PER FT DRILLED	TOTAL STEEL & BITS COST	AVERAGE BREAK PER ROUND	STEEL & BITS COST PER FT
48	14.00	672 FT	\$0.40	\$258.80	12.50 FT	\$21.50
3 (REAMED)	14.00	42 FT	\$0.50	\$21.00	12.50 FT	\$1.68
TOTAL						\$23.18 /FT

 EXPLOSIVES & ACCESSORIES COST

HEADING SIZE = 11.0 x 20.0 FT
 HOLES DRILLED = 51
 HOLES BLASTED = 48
 HOLE DIAMETER = 1 3/4 "
 POWDER TO BE USED = AMEX, CILBEL 70%, XACTEX
 AVERAGE BREAK/RND = 12.50 FEET

DESCRIPTION	NO. OF HOLES	STICKS PER HOLE	TOTAL STICKS	STICKS /CASE	CASE REQ'D	COST PER CASE	TOTAL COST
PRIMER H.E.	48	1	48	125	0.38	\$97.86	\$37.58
PERIMETER XACTEX	15	4	60	100	0.60	\$147.95	\$88.77
LIFTERS & H.E.	19	16	304	125	2.43	\$97.86	\$238.00
CUT H.E.	3	16	48	125	0.38	\$97.86	\$37.58
BLASTHOLES AMEX	11	1.04 (LB/FT)	160 (LB.)	-	-	\$0.45 /LB.	\$72.07
SUBTOTAL							\$473.99
12.00% F.S.T.							\$56.88
0.00% P.S.T.							\$0.00
TOTAL							\$530.87

DESCRIPTION	NO. OF HOLES	CAPS PER HOLE	TOTAL OR FUSE	COST PER CAP	COST PER ROUND	COST OF MISC.	TOTAL COST
DETONATORS	48	1	48	\$2.14	\$102.72	\$5.00	\$107.72
12.00% F.S.T.							\$12.93
0.00% P.S.T.							\$0.00

TOTAL EXPLOSIVES COST = \$530.87
 TOTAL DETONATORS COST = \$120.65

TOTAL \$120.65

TOTAL COST = \$651.52 PER RND / 12.50 FT = \$52.12 / FT

EQUIPMENT RENTAL AND REPAIR COST

EQUIPMENT DESCRIPTION	COMMENTS	RENT PER UNIT	NO. OF UNITS REQ'D	TOTAL RENTAL COST/MONTH	REPAIR COST PER HR., M.	HRS. OPERATING PER DAY OR M. DRILLED	REPAIR COST PER DAY	RENTAL COST PER DAY	REPAIR COST PER DAY
3 BOOM ELECTRIC/HYDRAULIC JUMBO		\$10,000	1	\$10,000	\$15.00	3 HR	\$45.00	\$333.33	\$45.00
DRILL REPAIR		-	-	-	\$0.15	1913 FT	\$286.88	\$0.00	\$286.88
ST - 8 SCOOPTRAM		\$10,000	2	\$20,000	\$29.00	12 HR	\$348.00	\$666.67	\$348.00
CM 1824 TRUCK		\$8,700	2	\$17,400	\$23.00	12 HR	\$276.00	\$580.00	\$276.00
ROCKBOLT JUMBO		\$3,500	1	\$3,500	\$18.00	6 HR	\$108.00	\$116.67	\$108.00
600 CFM ELECT. COMPRESSOR		\$2,100	1	\$2,100	\$1.50	24 HR	\$36.00	\$70.00	\$36.00
FRESHWATER PUMP - ELECTRIC		\$210	1	\$210	\$0.25	24 HR	\$6.00	\$7.00	\$6.00
WAREHOUSE TRAILER		\$300	1	\$300	\$0.00	0 HR	\$0.00	\$10.00	\$0.00
OFFICE/DRY TRAILER		\$600	1	\$600	\$0.00	0 HR	\$0.00	\$20.00	\$0.00
MINE LIGHTS & CHARGER		\$10	20	\$200	\$1.25	24 HR	\$30.00	\$6.67	\$30.00
38 * x 75 HP JOY FAN		\$450	1	\$450	\$0.25	24 HR	\$6.00	\$15.00	\$6.00
OXY & ACET TORCHES		\$50	1	\$50	\$1.00	8 HR	\$8.00	\$1.67	\$8.00
SAFETY GEAR		\$100	1	\$100	\$0.00	8 HR	\$0.00	\$3.33	\$0.00
FIRST AID GEAR		\$150	1	\$150	\$0.00	8 HR	\$0.00	\$5.00	\$0.00
SHOP TOOLS		\$1,000	1	\$1,000	\$0.00	0 HR	\$0.00	\$33.33	\$0.00
SURVEY GEAR		\$450	1	\$450	\$1.00	8 HR	\$8.00	\$15.00	\$8.00
POWDER/CAP MAGAZINE		\$750	1	\$750	\$0.00	0 HR	\$0.00	\$25.00	\$0.00
PICKUP / CREW VAN		\$1,000	4	\$4,000	\$4.50	12 HR	\$54.00	\$133.33	\$54.00
JACKLEG / STOPER		\$220	4	\$880	\$1.00	8 HR	\$8.00	\$29.33	\$8.00
400 AMP WELDER		\$150	1	\$150	\$0.25	8 HR	\$2.00	\$5.00	\$2.00
U/B PUMPS (13,30 HP)		\$1,000	5	\$5,000	\$3.00	24 HR	\$72.00	\$166.67	\$72.00
GROUT PUMP		\$1,000	1	\$1,000	\$0.00	0 HR	\$0.00	\$33.33	\$0.00
GRADER/DOZER		\$4,000	1	\$4,000	\$15.00	3 HR	\$45.00	\$133.33	\$45.00
INTERMEDIATE LOADER		\$200	1	\$200	\$0.25	6 HR	\$1.50	\$6.67	\$1.50
TOTALS				\$72,490 PER MONTH				\$2,416.33	\$1,340.38

ADVANCE PER DAY
RENTALS
COST/FT \$64.44
37.50 FT/DAY REPAIRS
\$35.74

FUEL / LUBE COST

EQUIPMENT DESCRIPTION	ENGINE	NUMBER OF UNITS REQ'D	OPERATING HOURS PER DAY PER UNIT	TOTAL OPERATING HOURS PER DAY	FUEL REQ'D PER HOUR	TOTAL FUEL PER DAY	FUEL COST PER LITRE	FUEL COST PER DAY	LUBE COST @ 15% OF FUEL COST	TOTAL OPER. COST PER DAY
3 BOOM ELECT/HYD JUMBO		1	3	3	16.7 LT	50.0	\$0.40	\$19.99	\$3.00	\$22.99
ST - 8 SCOOPTRAM		2	6	12	48.0 LT	576.0	\$0.40	\$230.40	\$34.56	\$264.96
CM 1824 TRUCK		1	12	12	48.0 LT	576.0	\$0.40	\$230.40	\$34.56	\$264.96
ROCKBOLT JUMBO		1	6	6	16.7 LT	100.0	\$0.40	\$39.98	\$6.00	\$45.98
GRADER/DOZER		1	3	3	16.7 LT	50.0	\$0.40	\$19.99	\$3.00	\$22.99
PICKUP / CREW VAN		2	3	6	15.0 LT	90.0	\$0.60	\$54.00	\$8.10	\$62.10

OPERATING COST = \$683.98 /DAY @ 37.50 FT/DAY = \$18.24 COST/FT

\$683.98

 ELECTRIC CABLE COST

ITEMS	3C #12			3C #6 (PUMP)			3C #2			3C #4/0			BLAST LINE (2C #18)		
	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE
ELECTRIC CABLE	0	\$0.87	\$0.00	1	\$2.29	\$2.29	0	\$4.29	\$0.00	1	\$10.40	\$10.40	1	\$0.50	\$0.50
SUBTOTAL			\$0.00			\$2.29			\$0.00			\$10.40			\$0.50
DAMAGE @ 10%			\$0.00			\$0.23			\$0.00			\$1.04			\$0.05
F. S. T. @ 12%			\$0.00			\$0.30			\$0.00			\$1.37			\$0.07
P. S. T. @ 0%			\$0.00			\$0.00			\$0.00			\$0.00			\$0.00
TOTALS			\$0.00			\$2.82			\$0.00			\$12.81			\$0.62
COST/FT = \$16.25			\$0.00 /FT			\$2.82 /FT			\$0.00 /FT			\$12.81 /FT			\$0.62

CURRAGH - FARD DEPOSIT

11.0 x 20.0 FT

RAMP

SHANTY BACK

BID SUMMARY SHEET

<u>C A T E G O R Y</u>		<u>C O S T / F T</u>
DIRECT LABOUR		\$73.15
SUPPORT LABOUR		\$70.08
STEEL & BITS		\$24.98
EXPLOSIVES & ACCESSORIES		\$53.17
EQUIPMENT RENTAL		\$64.44
EQUIPMENT REPAIR		\$36.34
FUEL & LUBE		\$18.24
PIPE & ACCESSORIES		\$16.61
VENTILATION & ACCESSORIES		\$11.39
ELECTRIC CABLE		\$16.25
HOSES, SMALL TOOLS		\$3.85
INSURANCE, COMMUNICATION		\$3.85
FREIGHT DURING CONTRACT		\$11.54
		<hr/>
SUBTOTAL		\$403.87
G & A	15.0%	\$60.58
		<hr/>
TOTAL COST		\$464.45
MARGIN	10.0%	\$40.39
PRICE		\$504.84 /FT

(B:FARAMP1)

VARIABLES

S/T HOURS	40 /WK	LABOUR	QUANTITY	RATE/HR	BONUS/HR	EXPLOSIVES COSTS	STKS/CSE	# LIFTERS	19	
DAYS/WK	7 /WK	PROJ.SUPT	1	\$17.00	\$12.00	CILGEL \$97.86 PER CSE.	125	# PROHOLE	11 HALF AMEX	CURRAGH-FARD DEPOSIT
O/T HOURS	16 /WK	SHIFTBOSS	3	\$16.25	\$12.00	AMEX \$0.45 PER LB.	1.04	# PERIM	15	
O/T RATE	1.50	MECHANIC	3	\$16.00	\$6.00	XACTEX \$147.95 PER CSE.	100	# CUT	3	11 FT X 20 FT RAMP
BONUS	\$12.00 /HR	ELECT.	1	\$16.00	\$6.00	CAPS \$2.14 EACH	-	TOTAL	48	
HRLY FRNG	20%	MINER	9	\$15.00	\$12.00	MISC \$5.00	-	DR REPAIR	\$0.15 /FT	
STAFF FRG	20%	SURVEYOR	1	\$14.00	\$0.00					
RM+BD	\$25.00 /DAY	CLERK	1	\$10.00	\$0.00	GAS COST \$0.600 /LITRE				
HOLES/RND	55	EXPEDITOR	0	\$12.50	\$0.00	FUEL COST \$0.400 /LITRE				
HOLE/DEPT	14 FEET					G & A 15.00%	HOSES 1.00%			
AVER BRK	12.50 FEET					MARGIN 10.00%	INS/COMM 1.00%			
MONTH	30 DAYS	STEEL & BITS COST/FT		\$0.40			FREIGHT 3.00%			
ADVANCE	37.50 FEET/DAY									

DIRECT LABOUR COSTS

DESCRIPTION	RATE PER HOUR	HOURS / WEEK			WAGE COST /WEEK	WAGE COST	DAILY BONUS COST	SUBTOTAL COST	FRINGES 20%	ROOM & BOARD	TOTAL PER MAN	# MEN REQ'D	TOTAL DAILY
		STRAIGHT	OVERTIME	TOTAL									
MINER	\$15.00	40	16	64	\$960.00	\$137.14	\$96.00	\$233.14	\$46.63	\$25.00	\$304.77	9	\$2,742.94

DIRECT LABOUR COST= \$2,742.94 /DAY @ 37.50 FT/DAY = \$73.15 /FT

SUPPORT LABOUR COST

DESCRIPTION	RATE PER HOUR	HOURS / WEEK			WAGE COST /WEEK	WAGE COST	DAILY BONUS COST	SUBTOTAL COST	FRINGES 20%	ROOM & BOARD	TOTAL PER MAN	# MEN REQ'D	TOTAL DAILY
		STRAIGHT	OVERTIME	TOTAL									
PROJ.SUPT	\$17.00	40	16	64	\$1,088.00	\$155.43	\$96.00	\$251.43	\$50.29	\$25.00	\$326.71	1	\$326.71
SHIFTBOSS	\$16.25	40	16	64	\$1,040.00	\$148.57	\$96.00	\$244.57	\$48.91	\$25.00	\$318.49	3	\$955.46
MECHANIC	\$16.00	40	16	64	\$1,024.00	\$146.29	\$48.00	\$194.29	\$38.86	\$25.00	\$258.14	3	\$774.43
ELECT.	\$16.00	40	16	64	\$1,024.00	\$146.29	\$48.00	\$194.29	\$38.86	\$25.00	\$258.14	1	\$258.14
SURVEYOR	\$14.00	40	16	64	\$896.00	\$128.00	\$0.00	\$128.00	\$25.60	\$25.00	\$178.60	1	\$178.60
CLERK	\$10.00	40	16	64	\$640.00	\$91.43	\$0.00	\$91.43	\$18.29	\$25.00	\$134.71	1	\$134.71
EXPEDITOR	\$12.50	40	16	64	\$800.00	\$114.29	\$0.00	\$114.29	\$22.86	\$25.00	\$162.14	0	\$0.00

10 \$2,628.06

SUPPORT LABOUR COST = \$2,628.06 /DAY @ 37.50 FT/DAY = \$70.08 /FT

 HEADING SIZE = 11.0 x 20.0 FT

 DRILL STEEL & BIT COST

Holes Drilled Per Round	Hole Total Ft Drilled Depth	Hole Total Ft Drilled Per Round	Steel & Bit Cost Per Ft Drilled	Total Steel & Bits Cost	Average Break Per Round	Steel & Bits Cost Per Ft
52	14.00	728 FT	\$0.40	\$291.20	12.50 FT	\$23.30
3 (REAMED)	14.00	42 FT	\$0.50	\$21.00	12.50 FT	\$1.68
TOTAL						\$24.98 /FT

 EXPLOSIVES & ACCESSORIES COST

HEADING SIZE = 11.0 x 20.0 FT
 HOLES DRILLED = 52
 HOLES BLASTED = 52
 HOLE DIAMETER = 1 3/4 "
 POWDER TO BE USED = AMEX, CILGEL 70%, XACTEX
 AVERAGE BREAK/RND = 12.50 FEET

DESCRIPTION	NO. OF HOLES	STICKS PER HOLE	TOTAL STICKS	STICKS /CASE	CASE REQ'D	COST PER CASE	TOTAL COST
PRIMER H.E.	52	1	52	125	0.42	\$97.86	\$40.71
PERIMETER XACTEX	15	4	60	100	0.60	\$147.95	\$88.77
LIFTERS & H.E.	19	16	304	125	2.43	\$97.86	\$238.00
CUT H.E.	3	16	48	125	0.38	\$97.86	\$37.58
BLASTHOLES AMEX	11	1.04 (LB/FT)	160 (LB.)	-	-	\$0.45 /LB.	\$72.07
SUBTOTAL							\$477.13
12.00% F.S.T.							\$57.26
0.00% P.S.T.							\$0.00
TOTAL							\$534.38

DESCRIPTION	NO. OF HOLES	CAPS PER HOLE	TOTAL CAPS OR FUSE	COST PER CAP	COST PER ROUND	COST OF MISC.	TOTAL COST
DETONATORS	52	1	52	\$2.14	\$111.28	\$5.00	\$116.28
12.00% F.S.T.							\$13.95
0.00% P.S.T.							\$0.00

TOTAL EXPLOSIVES COST = \$534.38
 TOTAL DETONATORS COST = \$130.23

TOTAL \$130.23

TOTAL COST = \$664.61 PER RND / 12.50 FT = \$53.17 / FT

EQUIPMENT RENTAL AND REPAIR COST

EQUIPMENT DESCRIPTION	COMMENTS	RENT PER UNIT	NO. OF UNITS REQ'D	TOTAL RENTAL COST/MONTH	REPAIR COST PER HR., M.	HRS. OPERATING PER DAY OR M. DRILLED	REPAIR COST PER DAY	RENTAL COST PER DAY	REPAIR COST PER DAY
3 BOOM ELECTRIC/HYDRAULIC JUMBO		\$10,000	1	\$10,000	\$15.00	3 HR	\$45.00	\$333.33	\$45.00
DRILL REPAIR		-	-	-	\$0.15	2063 FT	\$309.38	\$0.00	\$309.38
ST - 8 SCOOPTRAM		\$10,000	2	\$20,000	\$29.00	12 HR	\$348.00	\$666.67	\$348.00
CM 1824 TRUCK		\$8,700	2	\$17,400	\$23.00	12 HR	\$276.00	\$580.00	\$276.00
ROCKBOLT JUMBO		\$3,500	1	\$3,500	\$18.00	6 HR	\$108.00	\$116.67	\$108.00
600 CFM ELECT. COMPRESSOR		\$2,100	1	\$2,100	\$1.50	24 HR	\$36.00	\$70.00	\$36.00
FRESHWATER PUMP - ELECTRIC		\$210	1	\$210	\$0.25	24 HR	\$6.00	\$7.00	\$6.00
WAREHOUSE TRAILER		\$300	1	\$300	\$0.00	0 HR	\$0.00	\$10.00	\$0.00
OFFICE/DRY TRAILER		\$600	1	\$600	\$0.00	0 HR	\$0.00	\$20.00	\$0.00
MINE LIGHTS & CHARGER		\$10	20	\$200	\$1.25	24 HR	\$30.00	\$6.67	\$30.00
38 " x 75 HP JOY FAN		\$450	1	\$450	\$0.25	24 HR	\$6.00	\$15.00	\$6.00
OXY & ACET TORCHES		\$50	1	\$50	\$1.00	8 HR	\$8.00	\$1.67	\$8.00
SAFETY GEAR		\$100	1	\$100	\$0.00	8 HR	\$0.00	\$3.33	\$0.00
FIRST AID GEAR		\$150	1	\$150	\$0.00	8 HR	\$0.00	\$5.00	\$0.00
SHOP TOOLS		\$1,000	1	\$1,000	\$0.00	0 HR	\$0.00	\$33.33	\$0.00
SURVEY GEAR		\$450	1	\$450	\$1.00	8 HR	\$8.00	\$15.00	\$8.00
POWDER/CAP MAGAZINE		\$750	1	\$750	\$0.00	0 HR	\$0.00	\$25.00	\$0.00
PICKUP / CREW VAN		\$1,000	4	\$4,000	\$4.50	12 HR	\$54.00	\$133.33	\$54.00
JACKLEG / STOPER		\$220	4	\$880	\$1.00	8 HR	\$8.00	\$29.33	\$8.00
400 AMP WELDER		\$150	1	\$150	\$0.25	8 HR	\$2.00	\$5.00	\$2.00
U/G PUMPS (13,30 HP)		\$1,000	5	\$5,000	\$3.00	24 HR	\$72.00	\$166.67	\$72.00
GROUT PUMP		\$1,000	1	\$1,000	\$0.00	0 HR	\$0.00	\$33.33	\$0.00
GRADER/DOZER		\$4,000	1	\$4,000	\$15.00	3 HR	\$45.00	\$133.33	\$45.00
INTERMEDIATE LOADER		\$200	1	\$200	\$0.25	6 HR	\$1.50	\$6.67	\$1.50
TOTALS				\$72,490 PER MONTH				\$2,416.33	\$1,362.88

ADVANCE PER DAY
RENTALS 37.50 FT/DAY
REPAIRS
COST/FT \$64.44 \$36.34

FUEL / LUBE COST

EQUIPMENT DESCRIPTION	ENGINE	NUMBER OF UNITS REQ'D	OPERATING HOURS PER UNIT PER UNIT	TOTAL OPERATING HOURS PER DAY	FUEL REQ'D PER HOUR	TOTAL FUEL PER DAY	FUEL COST PER LITRE	FUEL COST PER DAY	LUBE COST @ 15% OF FUEL COST	TOTAL OPER. COST PER DAY
3 BOOM ELECT/HYD JUMBO		1	3	3	16.7 LT	50.0	\$0.40	\$19.99	\$3.00	\$22.99
ST - 8 SCOOPTRAM		2	6	12	48.0 LT	576.0	\$0.40	\$230.40	\$34.56	\$264.96
CM 1824 TRUCK		1	12	12	48.0 LT	576.0	\$0.40	\$230.40	\$34.56	\$264.96
ROCKBOLT JUMBO		1	6	6	16.7 LT	100.0	\$0.40	\$39.98	\$6.00	\$45.98
GRADER/DOZER		1	3	3	16.7 LT	50.0	\$0.40	\$19.99	\$3.00	\$22.99
PICKUP / CREW VAN		2	3	6	15.0 LT	90.0	\$0.60	\$54.00	\$8.10	\$62.10

OPERATING COST = \$683.98 /DAY @ 37.50 FT/DAY = \$18.24 COST/FT

\$683.98

ELECTRIC CABLE COST

ITEMS	3C #12			3C #6 (PUMP)			3C #2			3C #4/0			BLAST LINE (2C #18)		
	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE
ELECTRIC CABLE	0	\$0.87	\$0.00	1	\$2.29	\$2.29	0	\$4.29	\$0.00	1	\$10.40	\$10.40	1	\$0.50	\$0.50
SUBTOTAL			\$0.00			\$2.29			\$0.00			\$10.40			\$0.50
DAMAGE @ 10%			\$0.00			\$0.23			\$0.00			\$1.04			\$0.05
F.S.T. @ 12%			\$0.00			\$0.30			\$0.00			\$1.37			\$0.07
P.S.T. @ 0%			\$0.00			\$0.00			\$0.00			\$0.00			\$0.00
TOTALS			\$0.00			\$2.82			\$0.00			\$12.81			\$0.62
COST/FT = \$16.25			\$0.00 /FT			\$2.82 /FT			\$0.00 /FT			\$12.81 /FT			\$0.62

CURRAGH - FARD DEPOSIT

11.0 x 20.0 FT

RAMP

SHANTY BACK

BID SUMMARY SHEET

<u>CATEGORY</u>		<u>COST / FT</u>
DIRECT LABOUR		\$54.86
SUPPORT LABOUR		\$52.56
STEEL & BITS		\$24.98
EXPLOSIVES & ACCESSORIES		\$53.17
EQUIPMENT RENTAL		\$48.33
EQUIPMENT REPAIR		\$36.59
FUEL & LUBE		\$19.44
PIPE & ACCESSORIES		\$16.61
VENTILATION & ACCESSORIES		\$11.39
ELECTRIC CABLE		\$16.25
HOSES, SMALL TOOLS		\$3.34
INSURANCE, COMMUNICATION		\$3.34
FREIGHT DURING CONTRACT		\$10.03
SUBTOTAL		\$350.88
G & A	15.0%	\$52.63
TOTAL COST		\$403.51
MARGIN	10.0%	\$35.09
PRICE		\$438.60 /FT

(B:FARAMP2)

VARIABLES

S/T HOURS	40 /WK	LABOUR	QUANTITY	RATE/HR	BONUS/HR	EXPLOSIVES COSTS	STKS/CSE	# LIFTERS	19		
DAYS/WK	7 /WK	PROJ. SUPT	1	\$17.00	\$12.00	CILGEL	\$97.86 PER CSE.	125	# PRDHOLE	11 HALF AMEX	CURRAGH - FARD DEPOSIT
O/T HOURS	16 /WK	SHIFTBOSS	3	\$16.25	\$12.00	AMEX	\$0.45 PER LB.	1.04	# PERIM	15	
O/T RATE	1.50	MECHANIC	3	\$16.00	\$6.00	XACTEX	\$147.95 PER CSE.	100	# CUT	3	11 FT X 20 FT RAMP
BONUS	\$12.00 /HR	ELECT.	1	\$16.00	\$6.00	CAPS	\$2.14 EACH	-	TOTAL	48	
HRLY FRNG	20%	MINER	9	\$15.00	\$12.00	MISC	\$5.00	-	DR REPAIR	\$0.15 /FT	
STAFF FRG	20%	SURVEYOR	1	\$14.00	\$0.00						
RM+BD	\$25.00 /DAY	CLERK	1	\$10.00	\$0.00	GAS COST	\$0.600 /LITRE				
HOLES/RND	55	EXPEDITOR	0	\$12.50	\$0.00	FUEL COST	\$0.400 /LITRE				
HOLE/DEPT	14 FEET							HOSES	1.00%		
AVER BRK	12.50 FEET					G & A	15.00%	INS/COMM	1.00%		
MONTH	30 DAYS					MARGIN	10.00%	FREIGHT	3.00%		
ADVANCE	50.00 FEET/DAY	STEEL & BITS COST/FT		\$0.40							

DIRECT LABOUR COSTS

DESCRIPTION	RATE PER HOUR	HOURS / WEEK			WAGE COST /WEEK	WAGE COST	DAILY BONUS COST	SUBTOTAL COST	FRINGES 20%	ROOM & BOARD	TOTAL PER MAN	# MEN REQ'D	TOTAL DAILY
MINER	\$15.00	40	16	64	\$960.00	\$137.14	\$96.00	\$233.14	\$46.63	\$25.00	\$304.77	9	\$2,742.94

DIRECT LABOUR COST= \$2,742.94 /DAY @ 50.00 FT/DAY = \$54.86 /FT

SUPPORT LABOUR COST

DESCRIPTION	RATE PER HOUR	HOURS / WEEK			WAGE COST /WEEK	WAGE COST	DAILY BONUS COST	SUBTOTAL COST	FRINGES 20%	ROOM & BOARD	TOTAL PER MAN	# MEN REQ'D	TOTAL DAILY
PROJ. SUPT	\$17.00	40	16	64	\$1,088.00	\$155.43	\$96.00	\$251.43	\$50.29	\$25.00	\$326.71	1	\$326.71
SHIFTBOSS	\$16.25	40	16	64	\$1,040.00	\$148.57	\$96.00	\$244.57	\$48.91	\$25.00	\$318.49	3	\$955.46
MECHANIC	\$16.00	40	16	64	\$1,024.00	\$146.29	\$48.00	\$194.29	\$38.86	\$25.00	\$258.14	3	\$774.43
ELECT.	\$16.00	40	16	64	\$1,024.00	\$146.29	\$48.00	\$194.29	\$38.86	\$25.00	\$258.14	1	\$258.14
SURVEYOR	\$14.00	40	16	64	\$896.00	\$128.00	\$0.00	\$128.00	\$25.60	\$25.00	\$178.60	1	\$178.60
CLERK	\$10.00	40	16	64	\$640.00	\$91.43	\$0.00	\$91.43	\$18.29	\$25.00	\$134.71	1	\$134.71
EXPEDITOR	\$12.50	40	16	64	\$800.00	\$114.29	\$0.00	\$114.29	\$22.86	\$25.00	\$162.14	0	\$0.00

SUPPORT LABOUR COST = \$2,628.06 /DAY @ 50.00 FT/DAY = \$52.56 /FT

10 \$2,628.06

 HEADING SIZE = 11.0 x 20.0 FT

 DRILL STEEL & BIT COST

Holes Drilled Per Round	Hole Depth	Total Ft Drilled Per Round	Steel & Bit Cost Per Ft Drilled	Total Steel & Bits Cost	Average Break Per Round	Steel & Bits Cost Per Ft
52	14.00	728 FT	\$0.40	\$291.20	12.50 FT	\$23.30
3 (REAMED)	14.00	42 FT	\$0.50	\$21.00	12.50 FT	\$1.68
TOTAL						\$24.98 /FT

 EXPLOSIVES & ACCESSORIES COST

HEADING SIZE = 11.0 x 20.0 FT
 HOLES DRILLED = 55
 HOLES BLASTED = 52
 HOLE DIAMETER = 1 3/4 "
 POWDER TO BE USED = AMEX, CILSEL 70%, XACTEX
 AVERAGE BREAK/RND = 12.50 FEET

DESCRIPTION	NO. OF HOLES	STICKS PER HOLE	TOTAL STICKS	STICKS /CASE	CASE REQ'D	COST PER CASE	TOTAL COST
PRIMER H.E.	52	1	52	125	0.42	\$97.86	\$40.71
PERIMETER XACTEX	15	4	60	100	0.60	\$147.95	\$88.77
LIFTERS & H.E.	19	16	304	125	2.43	\$97.86	\$238.00
CUT H.E.	3	16	48	125	0.38	\$97.86	\$37.58
BLASTHOLES AMEX	11	1.04 (LB/FT)	160 (LB.)	-	-	\$0.45 /LB.	\$72.07
SUBTOTAL							\$477.13
12.00% F.S.T.							\$57.26
0.00% P.S.T.							\$0.00
TOTAL							\$534.38

DESCRIPTION	NO. OF HOLES	CAPS PER HOLE	TOTAL CAPS OR FUSE	COST PER CAP	COST PER ROUND	COST OF MISC.	TOTAL COST
DETONATORS	52	1	52	\$2.14	\$111.28	\$5.00	\$116.28
12.00% F.S.T.							\$13.95
0.00% P.S.T.							\$0.00
TOTAL							\$130.23

TOTAL EXPLOSIVES COST = \$534.38
 TOTAL DETONATORS COST = \$130.23

TOTAL COST = \$664.61 PER RND / 12.50 FT = \$53.17 / FT

EQUIPMENT RENTAL AND REPAIR COST

EQUIPMENT DESCRIPTION	COMMENTS	RENT PER UNIT	NO. OF UNITS REQ'D	TOTAL RENTAL COST/MONTH	REPAIR COST PER HR., M.	HRS. OPERATING PER DAY OR M. DRILLED	REPAIR COST PER DAY	RENTAL COST PER DAY	REPAIR COST PER DAY
3 BOOM ELECTRIC/HYDRAULIC JUMBO		\$10,000	1	\$10,000	\$15.00	4 HR	\$60.00	\$333.33	\$60.00
DRILL REPAIR		-	-	-	\$0.15	2750 FT	\$412.50	\$0.00	\$412.50
ST - 8 SCOOPTRAM		\$10,000	2	\$20,000	\$29.00	18 HR	\$522.00	\$666.67	\$522.00
CM 1824 TRUCK		\$8,700	2	\$17,400	\$23.00	18 HR	\$414.00	\$580.00	\$414.00
ROCKBOLT JUMBO		\$3,500	1	\$3,500	\$18.00	8 HR	\$144.00	\$116.67	\$144.00
600 CFM ELECT. COMPRESSOR		\$2,100	1	\$2,100	\$1.50	24 HR	\$36.00	\$70.00	\$36.00
FRESHWATER PUMP - ELECTRIC		\$210	1	\$210	\$0.25	24 HR	\$6.00	\$7.00	\$6.00
WAREHOUSE TRAILER		\$300	1	\$300	\$0.00	0 HR	\$0.00	\$10.00	\$0.00
OFFICE/DRY TRAILER		\$600	1	\$600	\$0.00	0 HR	\$0.00	\$20.00	\$0.00
MINE LIGHTS & CHARGER		\$10	20	\$200	\$1.25	24 HR	\$30.00	\$6.67	\$30.00
38 " x 75 HP JOY FAN		\$450	1	\$450	\$0.25	24 HR	\$6.00	\$15.00	\$6.00
OXY & ACET TORCHES		\$50	1	\$50	\$1.00	8 HR	\$8.00	\$1.67	\$8.00
SAFETY GEAR		\$100	1	\$100	\$0.00	8 HR	\$0.00	\$3.33	\$0.00
FIRST AID GEAR		\$150	1	\$150	\$0.00	8 HR	\$0.00	\$5.00	\$0.00
SHOP TOOLS		\$1,000	1	\$1,000	\$0.00	0 HR	\$0.00	\$33.33	\$0.00
SURVEY GEAR		\$450	1	\$450	\$1.00	8 HR	\$8.00	\$15.00	\$8.00
POWDER/CAP MAGAZINE		\$750	1	\$750	\$0.00	0 HR	\$0.00	\$25.00	\$0.00
PICKUP / CREW VAN		\$1,000	4	\$4,000	\$4.50	12 HR	\$54.00	\$133.33	\$54.00
JACKLEG / STOPPER		\$220	4	\$880	\$1.00	8 HR	\$8.00	\$29.33	\$8.00
400 AMP WELDER		\$150	1	\$150	\$0.25	8 HR	\$2.00	\$5.00	\$2.00
U/G PUMPS (13,30 HP)		\$1,000	5	\$5,000	\$3.00	24 HR	\$72.00	\$166.67	\$72.00
GROUT PUMP		\$1,000	1	\$1,000	\$0.00	0 HR	\$0.00	\$33.33	\$0.00
GRADER/DOZER		\$4,000	1	\$4,000	\$15.00	3 HR	\$45.00	\$133.33	\$45.00
INTERMEDIATE LOADER		\$200	1	\$200	\$0.25	8 HR	\$2.00	\$6.67	\$2.00
TOTALS				\$72,490 PER MONTH				\$2,416.33	\$1,829.50

ADVANCE PER DAY
RENTALS 50.00 FT/DAY
COST/FT \$48.33 REPAIRS \$36.59

FUEL / LUBE COST

EQUIPMENT DESCRIPTION	ENGINE	NUMBER OF UNITS REQ'D	OPERATING HOURS PER DAY PER UNIT	TOTAL OPERATING HOURS PER DAY	FUEL REQ'D PER HOUR	TOTAL FUEL PER DAY	FUEL COST PER LITRE	FUEL COST PER DAY	LUBE COST @ 15% OF FUEL COST	TOTAL OPER. COST PER DAY
3 BOOM ELECT/HYD JUMBO		1	4	4	16.7 LT	66.6	\$0.40	\$26.66	\$4.00	\$30.65
ST - 8 SCOOPTRAM		2	9	18	48.0 LT	864.0	\$0.40	\$345.60	\$51.84	\$397.44
CM 1824 TRUCK		1	18	18	48.0 LT	864.0	\$0.40	\$345.60	\$51.84	\$397.44
ROCKBOLT JUMBO		1	8	8	16.7 LT	133.3	\$0.40	\$53.31	\$8.00	\$61.31
GRADER/DOZER		1	3	3	16.7 LT	50.0	\$0.40	\$19.99	\$3.00	\$22.99
PICKUP / CREW VAN		2	3	6	15.0 LT	90.0	\$0.60	\$54.00	\$8.10	\$62.10

OPERATING COST = \$971.93 /DAY @ 50.00 FT/DAY = \$19.44 COST/FT

\$971.93

 PIPE & ACCESSORY COST

ITEMS	2" LINE			4" LINE (AIR)			4" LINE			6" LINE (PUMP)			8" LINE			
	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE	
PIPES	100	\$1.39	\$139.00	100	\$3.45	\$345.00	0	\$3.45	\$0.00	100	\$4.80	\$480.00	0	\$0.00	\$0.00	
COUPLING	7	\$4.80	\$33.60	7	\$9.60	\$67.20	0	\$9.60	\$0.00	5	\$16.55	\$82.75	0	\$0.00	\$0.00	
VALVES	1	\$39.99	\$39.99	1/500'	\$105.80	\$21.16	0	\$105.80	\$0.00	1/500'	\$198.85	\$39.77	0	\$0.00	\$0.00	
ELBOWS 90 DEG	0	\$6.40	\$0.00	0	\$18.05	\$0.00	0	\$18.05	\$0.00	1/200'	\$45.65	\$22.83	0	\$0.00	\$0.00	
ELBOWS 45 DEG	0	\$6.40	\$0.00	0	\$18.05	\$0.00	0	\$18.05	\$0.00	1/200'	\$45.65	\$22.83	0	\$0.00	\$0.00	
TEES	1	\$6.40	\$6.40	1/500'	\$27.85	\$5.57	0	\$27.85	\$0.00	1/500'	\$73.55	\$14.71	0	\$0.00	\$0.00	
REDUCERS	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00	
CHAIN HANGERS	7	\$2.92	\$20.44	7	\$2.92	\$20.44	0	\$2.92	\$0.00	5	\$2.92	\$14.60	0	\$0.00	\$0.00	
3/16 CHAIN	50	\$0.32	\$16.00	50	\$0.32	\$16.00	0	\$0.32	\$0.00	50	\$0.32	\$16.00	0	\$0.00	\$0.00	
SUBTOTAL			\$255.43				\$475.37				\$0.00				\$693.48	\$0.00
DAMAGE @ 10%			\$25.54				\$47.54				\$0.00				\$69.35	\$0.00
F.S.T. @ 5%			\$16.86				\$31.37				\$0.00				\$45.77	\$0.00
P.S.T. @ 0%			\$0.00				\$0.00				\$0.00				\$0.00	\$0.00
TOTALS			\$297.83				\$554.28				\$0.00				\$808.60	\$0.00

COST/FT = \$16.61 / FT \$2.98 / FT \$5.54 / FT \$0.00 / FT \$8.09 / FT \$0.00

 VENTILATION & ACCESSORIES COST

ITEMS	12" DIA.			30" DIA.			36" DIA.			42" DIA.			48" DIA.		
	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE
VENTILATION PIPE	0	\$2.39	\$0.00	0	\$0.00	\$0.00	0	\$5.65	\$0.00	0	\$6.81	\$0.00	50	\$7.85	\$392.50
VENTILATION TUBE	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00
PIPE COUPLING	0	\$2.10	\$0.00	0	\$0.00	\$0.00	0	\$2.25	\$0.00	0	\$2.10	\$0.00	3	\$2.10	\$6.30
PIPE HANGERS	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00
PIPE ELBOWS	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00
PIPE TEES	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00
TUBE COUPLING	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00
TUBE HANGER	0	\$2.85	\$0.00	0	\$0.00	\$0.00	0	\$2.92	\$0.00	0	\$2.85	\$0.00	3	\$2.85	\$8.55
MESSENGER WIRE	0	\$0.33	\$0.00	0	\$0.00	\$0.00	0	\$0.32	\$0.00	0	\$0.33	\$0.00	50	\$0.33	\$16.50
SUBTOTAL			\$0.00				\$0.00				\$0.00				\$423.85
DAMAGE @ 20%			\$0.00				\$0.00				\$0.00				\$84.77
F.S.T. @ 12%			\$0.00				\$0.00				\$0.00				\$61.03
P.S.T. @ 0%			\$0.00				\$0.00				\$0.00				\$0.00
TOTALS			\$0.00				\$0.00				\$0.00				\$569.65

COST/FT = \$11.39 / FT \$0.00 / FT \$0.00 / FT \$0.00 / FT \$0.00 / FT \$11.39

 ELECTRIC CABLE COST

ITEMS	3C #12			3C #6 (PUMP)			3C #2			3C #4/0			BLAST LINE (2C #18)		
	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE
ELECTRIC CABLE	0	\$0.87	\$0.00	1	\$2.29	\$2.29	0	\$4.29	\$0.00	1	\$10.40	\$10.40	1	\$0.50	\$0.50
SUBTOTAL			\$0.00			\$2.29			\$0.00			\$10.40			\$0.50
DAMAGE @ 10%			\$0.00			\$0.23			\$0.00			\$1.04			\$0.05
F.S.T. @ 12%			\$0.00			\$0.30			\$0.00			\$1.37			\$0.07
P.S.T. @ 0%			\$0.00			\$0.00			\$0.00			\$0.00			\$0.00
TOTALS			\$0.00			\$2.82			\$0.00			\$12.81			\$0.62
COST/FT = \$16.25			\$0.00 /FT			\$2.82 /FT			\$0.00 /FT			\$12.81 /FT			\$0.62

CURRAGH - FARD DEPOSIT

4.0 x 6.0 FT

RAISE

BID SUMMARY SHEET

<u>CATEGORY</u>		<u>COST / FT</u>
DIRECT LABOUR		\$116.10
SUPPORT LABOUR		\$0.00
STEEL & BITS		\$11.77
EXPLOSIVES & ACCESSORIES		\$22.10
EQUIPMENT RENTAL		\$3.43
EQUIPMENT REPAIR		\$6.43
FUEL & LUBE		\$4.68
PIPE & ACCESSORIES		\$5.96
VENTILATION & ACCESSORIES		\$0.00
ELECTRIC CABLE		\$0.00
LADDERS, CRIBBING		\$31.00
HOSES, SMALL TOOLS		\$2.01
INSURANCE, COMMUNICATION		\$2.01
FREIGHT DURING CONTRACT		\$6.04
SUBTOTAL		\$211.54
G & A	15.0%	\$31.73
TOTAL COST		\$243.28
MARGIN	10.0%	\$21.15
PRICE		\$264.43 /FT

(B:FARRSE)

VARIABLES

S/T HOURS	40 /WK	LABOUR	QUANTITY	RATE/HR	BONUS/HR	EXPLOSIVES COSTS	STKS/CSE	# LIFTERS	11		
DAYS/WK	7 /WK	PROJ. SUPT	0	\$17.00	\$12.00	CILGEL	\$97.86 PER CSE.	195	# PRDHOLE	11 HALF AMEX	CURRASH - FARD DEPOSIT
O/T HOURS	16 /WK	SHIFTBOSS	0	\$16.25	\$12.00	AMEX	\$0.45 PER LB.	0.50	# PERIM	0	
O/T RATE	1.50	MECHANIC	0	\$16.00	\$6.00	XACTEX	\$147.95 PER CSE.	100	# CUT	0	4 FT X 6 FT RAISE
BONUS	\$12.00 /HR	ELECT.	0	\$16.00	\$6.00	CAPS	\$2.14 EACH	-	TOTAL	22	
HRLY FRNG	20%	MINER	4	\$15.00	\$12.00	MISC	\$5.00	-	DR REPAIR	\$0.15 /FT	
STAFF FRG	20%	SURV/EXP	0	\$14.00	\$0.00	GAS COST	\$0.600 /LITRE				
RM+BD	\$25.00 /DAY	CLERK	0	\$10.00	\$0.00	FUEL COST	\$0.400 /LITRE				
HOLES/RND	25	EXPEDITOR	0	\$12.50	\$0.00	G & A	15.00%	HOSES	1.00%		
HOLE/DEPT	8 FEET					MARGIN	10.00%	INS/COMM	1.00%		
AVER BRK	7.00 FEET	STEEL & BITS COST/FT		\$0.40				FREIGHT	3.00%		
MONTH	30 DAYS										
ADVANCE	10.5 FEET/DAY										

DIRECT LABOUR COSTS

DESCRIPTION	RATE PER HOUR	HOURS / WEEK			WAGE COST /WEEK	WAGE COST	DAILY			FRINGES 20%	ROOM & BOARD	TOTAL PER MAN	# MEN REQ'D	TOTAL DAILY
		STRAIGHT	OVERTIME	TOTAL			WAGE COST	BONUS COST	SUBTOTAL COST					
MINER	\$15.00	40	16	64	\$960.00	\$137.14	\$96.00	\$233.14	\$46.63	\$25.00	\$304.77	4	\$1,219.09	
													4	\$1,219.09

DIRECT LABOUR COST= \$1,219.09 /DAY @ 10.50 FT/DAY = \$116.10 /FT

DRILL STEEL & BIT COST

HEADING SIZE = 4.0 x 6.0 FT

HOLES DRILLED PER ROUND	HOLE TOTAL FT DRILLED DEPTH PER ROUND	STEEL & BIT COST PER FT DRILLED	TOTAL STEEL & BITS COST	AVERAGE BREAK PER ROUND	STEEL & BITS COST PER FT
22	8.00 176 FT	\$0.40	\$70.40	7.00 FT	\$10.06
3 (REAMED)	8.00 24 FT	\$0.50	\$12.00	7.00 FT	\$1.71
				TOTAL	\$11.77 /FT

EXPLOSIVES & ACCESSORIES COST

HEADING SIZE = 4.0 x 6.0 FT
 HOLES DRILLED = 25
 HOLES BLASTED = 22
 HOLE DIAMETER = 1 1/4 "
 POWDER TO BE USED = AMEX, CILGEL 70%, XACTEX
 AVERAGE BREAK/RND = 7.00 FEET

DESCRIPTION	NO. OF HOLES	STICKS PER HOLE	TOTAL STICKS	STICKS /CASE	CASE REQ'D	COST PER CASE	TOTAL COST
PRIMER H.E.	22	1	22	195	0.11	\$97.86	\$11.04
PERIMETER XACTEX	0	5	0	100	0.00	\$147.95	\$0.00
LIFTERS & H.E.	11	10	110	195	0.56	\$97.86	\$55.20
CUT H.E.	0	10	0	195	0.00	\$97.86	\$0.00
BLASTHOLES AMEX	11	0.50 (LB/FT)	44 (LB.)	-	-	\$0.45 /LB.	\$19.80
SUBTOTAL							\$86.04
12.00% F.S.T.							\$10.33
0.00% P.S.T.							\$0.00
TOTAL							\$96.37

DESCRIPTION	NO. OF HOLES	CAPS PER HOLE	TOTAL CAPS OR FUSE	COST PER CAP	COST PER ROUND	COST OF MISC.	TOTAL COST
DETONATORS	22	1	22	\$2.14	\$47.08	\$5.00	\$52.08
12.00% F.S.T.							\$6.25
0.00% P.S.T.							\$0.00
TOTAL							\$58.33

TOTAL EXPLOSIVES COST = \$96.37
 TOTAL DETONATORS COST = \$58.33

TOTAL COST = \$154.70 PER RND / 7.00 FT = \$22.10 / FT

EQUIPMENT RENTAL AND REPAIR COST

EQUIPMENT DESCRIPTION	COMMENTS	RENT PER UNIT	NO. OF UNITS REQ'D	TOTAL RENTAL COST/MONTH	REPAIR COST PER HR., M.	HRS. OPERATING PER DAY OR M. DRILLED	REPAIR COST PER DAY	RENTAL COST PER DAY	REPAIR COST PER DAY
ST - 8 SCOPTRAM		\$10,000	0	\$0	\$29.00	2 HR	\$58.00	\$0.00	\$58.00
JACKLEG / STOPPER		\$220	4	\$880	\$1.00	8 HR	\$8.00	\$29.33	\$8.00
INTERMEDIATE LOADER		\$200	1	\$200	\$0.25	6 HR	\$1.50	\$6.67	\$1.50
TOTALS				\$1,080 PER MONTH				\$36.00	\$67.50
ADVANCE PER DAY									
COST/FT								RENTALS \$3.43	10.50 FT/DAY REPAIRS \$6.43

FUEL / LUBE COST

EQUIPMENT DESCRIPTION	ENGINE	NUMBER OF UNITS REQ'D	OPERATING HOURS PER DAY PER UNIT	TOTAL OPERATING HOURS PER DAY	FUEL REQ'D PER HOUR	TOTAL FUEL PER DAY	FUEL COST PER LITRE	FUEL COST PER DAY	LUBE COST @ 15% OF FUEL COST	TOTAL OPER. COST PER DAY
ST - 8 SCOOPTRAM JACKLES / STOPER		2	1.0	2	48.0 LT	96.0	\$0.40	\$38.40	\$5.76	\$44.16
									\$5.00	\$5.00
										\$49.16

OPERATING COST = \$49.16 /DAY @ 10.50 FT/DAY = \$4.68 COST/FT

PIPE & ACCESSORY COST

ITEMS	2" LINE			4" LINE (AIR)			4" LINE			6" LINE (PUMP)			8" LINE		
	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE
PIPES	100	\$1.39	\$139.00	0	\$3.45	\$0.00	0	\$3.45	\$0.00	0	\$4.80	\$0.00	0	\$0.00	\$0.00
COUPLING	7	\$4.80	\$33.60	0	\$9.60	\$0.00	0	\$9.60	\$0.00	0	\$16.55	\$0.00	0	\$0.00	\$0.00
VALVES	1	\$39.99	\$39.99	0	\$105.80	\$21.16	0	\$105.80	\$0.00	0	\$198.85	\$39.77	0	\$0.00	\$0.00
ELBOWS 90 DEG	0	\$6.40	\$0.00	0	\$18.05	\$0.00	0	\$18.05	\$0.00	0	\$45.65	\$22.83	0	\$0.00	\$0.00
ELBOWS 45 DEG	0	\$6.40	\$0.00	0	\$18.05	\$0.00	0	\$18.05	\$0.00	0	\$45.65	\$22.83	0	\$0.00	\$0.00
TEES	1	\$6.40	\$6.40	0	\$27.85	\$5.57	0	\$27.85	\$0.00	0	\$73.55	\$14.71	0	\$0.00	\$0.00
REDUCERS	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00	0	\$0.00	\$0.00
CHAIN HANGERS	7	\$2.92	\$20.44	0	\$2.92	\$0.00	0	\$2.92	\$0.00	0	\$2.92	\$0.00	0	\$0.00	\$0.00
3/16 CHAIN	50	\$0.32	\$16.00	0	\$0.32	\$0.00	0	\$0.32	\$0.00	0	\$0.32	\$0.00	0	\$0.00	\$0.00
			\$255.43			\$26.73			\$0.00			\$100.13			\$0.00
			\$25.54			\$2.67			\$0.00			\$10.01			\$0.00
			\$16.86			\$1.76			\$0.00			\$6.61			\$0.00
			\$0.00			\$0.00			\$0.00			\$0.00			\$0.00
			\$297.83			\$31.17			\$0.00			\$116.75			\$0.00

SUBTOTAL
DAMAGE @ 10%
F.S.T. @ 6%
P.S.T. @ 0%

TOTALS

COST/FT = \$5.96 / FT \$2.98 x 2
\$5.96 /FT (2 PIPES) \$0.00 /FT \$0.00 /FT \$0.00 /FT \$0.00

CURRAGH - FARD DEPOSIT

ALIMAK RAISE

6.0 FT x 6.0 FT

SETUP / TEARDOWN

BID SUMMARY SHEET

<u>CATEGORY</u>		<u>COST</u>
DIRECT LABOUR		\$4,571.57
SUPPORT LABOUR		\$0.00
STEEL & BITS		\$0.00
EXPLOSIVES & ACCESSORIES		\$0.00
EQUIPMENT RENTAL		\$1,108.00
EQUIPMENT REPAIR		\$1,097.25
FUEL & LUBE		\$281.22
PIPE & ACCESSORIES		\$0.00
VENTILATION & ACCESSORIES		\$0.00
ELECTRIC CABLE		\$0.00
HOSES, SMALL TOOLS		\$70.58
INSURANCE, COMMUNICATION		\$70.58
FREIGHT DURING CONTRACT		\$211.74
ELECTRIC POWER		-
		<hr/>
SUBTOTAL		\$7,410.94
G & A	15.0%	\$1,111.64
		<hr/>
TOTAL COST		\$8,522.59
MARGIN	10.0%	\$741.09
PRICE		\$9,263.68

(B:FARSET)

VARIABLES

S/T HOURS	40 /WK	LABOUR	QUANTITY	RATE/HR	BONUS/HR	EXPLOSIVES COSTS	STKS/CSE	# LIFTERS	0
DAYS/WK	7 /WK	PROJ. SUPT	0	\$17.00	\$12.00	CILGEL - PER CSE.	195	# PRDHOLE	0
O/T HOURS	16 /WK	SHIFTBOSS	0	\$16.25	\$12.00	AMEX - PER LB.	0.50	# PERIM	0
O/T RATE	1.50	MECHANIC	0	\$16.00	\$6.00	XACTEX - PER CSE.	100	# CUT	0
BONUS	\$12.00 /HR	ELECT.	0	\$16.00	\$6.00	CAPS - EACH	-	TOTAL	0
HRLY FRNG	20%	MINER	5	\$15.00	\$12.00	MISC -	-	DR REPAIR	- /FT
STAFF FRG	20%	SURV/EXP	0	\$14.00	\$0.00	GAS COST \$0.60 /LITRE			
RM+BD	\$25.00 /DAY	CLERK	0	\$10.00	\$0.00	FUEL COST \$0.40 /LITRE			
HOLES/RND	-	EXPEDITOR	0	\$12.50	\$0.00	G & A 15.00%			
HOLE/DEPT	- FEET					MARGIN 10.00%			
AVER BRK	- FEET								
MONTH	30 DAYS								
DURATION	3.0 DAYS	STEEL & BITS COST/FT							

DIRECT LABOUR COSTS

DESCRIPTION	RATE PER HOUR	HOURS / WEEK			WAGE COST /WEEK	WAGE COST	DAILY BONUS COST	SUBTOTAL COST	FRINGES 20%	ROOM & BOARD	TOTAL PER MAN	# MEN REQ'D	TOTAL DAILY
MINER	\$15.00	40	16	64	\$960.00	\$137.14	\$96.00	\$233.14	\$46.63	\$25.00	\$304.77	5	\$1,523.86

DIRECT LABOUR COST= \$1,523.86 /DAY @ 3.00 DAYS = \$4,571.57

SUPPORT LABOUR COST

DESCRIPTION	RATE PER HOUR	HOURS / WEEK			WAGE COST /WEEK	WAGE COST	DAILY BONUS COST	SUBTOTAL COST	FRINGES 20%	ROOM & BOARD	TOTAL PER MAN	# MEN REQ'D	TOTAL DAILY
PROJ. SUPT	\$17.00	40	16	64	\$1,088.00	\$155.43	\$96.00	\$251.43	\$50.29	\$25.00	\$326.71	0	\$0.00
SHIFTBOSS	\$16.25	40	16	64	\$1,040.00	\$148.57	\$96.00	\$244.57	\$48.91	\$25.00	\$318.49	0	\$0.00
MECHANIC	\$16.00	40	16	64	\$1,024.00	\$146.29	\$48.00	\$194.29	\$38.86	\$25.00	\$258.14	0	\$0.00
ELECT.	\$16.00	40	16	64	\$1,024.00	\$146.29	\$48.00	\$194.29	\$38.86	\$25.00	\$258.14	0	\$0.00
SURV/EXP	\$14.00	40	16	64	\$896.00	\$128.00	\$0.00	\$128.00	\$25.60	\$25.00	\$178.60	0	\$0.00
CLERK	\$10.00	40	16	64	\$640.00	\$91.43	\$0.00	\$91.43	\$18.29	\$25.00	\$134.71	0	\$0.00
EXPEDITOR	\$12.50	40	16	64	\$800.00	\$114.29	\$0.00	\$114.29	\$22.86	\$25.00	\$162.14	0	\$0.00

SUPPORT LABOUR COST = \$0.00 /DAY @ 3.00 DAYS = \$0.00

EQUIPMENT RENTAL AND REPAIR COST

EQUIPMENT DESCRIPTION	COMMENTS	RENT PER UNIT	NO. OF UNITS REQ'D	TOTAL RENTAL COST/MONTH	REPAIR COST PER HR., M.	HRS. OPERATING PER DAY OR M. DRILLED	REPAIR COST PER DAY	RENTAL COST PER DAY	REPAIR COST PER DAY
ALIMAK C/W RAILS		\$10,000	1	\$10,000	\$17.00	16 HR	\$272.00	\$333.33	\$272.00
JACKLEG / STOPER		\$220	4	\$880	\$1.00	6 HR	\$6.00	\$29.33	\$6.00
DRILL REPAIR		-	-	-	\$0.15	0 FT	\$0.00	\$0.00	\$0.00
INTERMEDIATE LOADER		\$200	1	\$200	\$0.25	3 HR	\$0.75	\$6.67	\$0.75
ST 8 SCOOPTRAM		\$10,000	-	\$0	\$29.00	3 HR	\$87.00	\$0.00	\$87.00
TOTALS								\$369.33	\$365.75

\$11,080 PER MONTH

DURATION 3.00 DAYS
RENTALS \$1,108.00
REPAIRS \$1,097.25

FUEL / LUBE COST

EQUIPMENT DESCRIPTION	ENGINE	NUMBER OF UNITS REQ'D	OPERATING HOURS PER DAY PER UNIT	TOTAL OPERATING HOURS PER DAY	FUEL REQ'D PER HOUR	TOTAL FUEL PER DAY	FUEL COST PER LITRE	FUEL COST PER DAY	LUBE COST @ 15% OF FUEL COST	TOTAL OPER. COST PER DAY
ST 8 SCOOPTRAM	-	1	3	3	48.0 LT	144.0	\$0.40	\$57.60	\$8.64	\$66.24
ALIMAK	-	1	24	24	- LT	0.0	-	\$0.00	\$25.00	\$25.00
JACKLEG / STOPER	-	4	0	0	0.0 LT	0.0	-	\$0.00	\$2.50	\$2.50

OPERATING COST = \$93.74 /DAY @ 3.00 DAYS = \$281.22

\$93.74

CURRAGH-FARO DEPOSIT

ALIMAK RAISE

6.0 FT x 6.0 FT

BID SUMMARY SHEET

<u>CATEGORY</u>	<u>COST / FT</u>
DIRECT LABOUR	\$108.85
SUPPORT LABOUR	\$0.00
STEEL & BITS	\$15.89
EXPLOSIVES & ACCESSORIES	\$23.79
EQUIPMENT RENTAL	\$26.38
EQUIPMENT REPAIR	\$31.23
FUEL & LUBE	\$6.70
PIPE & ACCESSORIES	\$0.00
VENTILATION & ACCESSORIES	\$0.00
ELECTRIC CABLE	\$0.00
HOSES, SMALL TOOLS	\$2.13
INSURANCE, COMMUNICATION	\$2.13
FREIGHT DURING CONTRACT	\$6.38
ELECTRIC POWER	-
<hr/>	
SUBTOTAL	\$223.47
G & A 15.0%	\$33.52
<hr/>	
TOTAL COST	\$256.99
MARGIN 10.0%	\$22.35
PRICE	\$279.33 /FT

(B:FRse1)

VARIABLES

S/T HOURS	40 /WK	LABOUR	QUANTITY	RATE/HR	BONUS/HR	EXPLOSIVES COSTS	STKS/CSE	# LIFTERS	0
DAYS/WK	7 /WK	PROJ. SUPT	0	\$17.00	\$12.00	CILBEL \$97.86 PER CSE.	195	# PROHOLE	28
O/T HOURS	16 /WK	SHIFTBOSS	0	\$16.25	\$12.00	AMEX \$0.45 PER LB.	0.53	# PERIM	0
O/T RATE	1.50	MECHANIC	0	\$16.00	\$6.00	XACTEX \$147.95 PER CSE.	100	# CUT	3
BONUS	\$12.00 /HR	ELECT.	0	\$16.00	\$6.00	CAPS \$2.14 EACH	-	TOTAL	31
HRLY FRNG	20%	MINER	5	\$15.00	\$12.00	MISC \$5.00	-	DR REPAIR	\$0.15 /FT
STAFF FRG	20%	SURV/EXP	0	\$12.50	\$0.00	GAS COST \$0.60 /LITRE			
RM+BD	\$25.00 /DAY	CLERK	0	\$10.00	\$0.00	FUEL COST \$0.40 /LITRE			
HOLES/RND	34	EXPEDITOR	0	\$12.50	\$0.00	G & A 15.00%	HOSES 1.00%		
HOLE/DEPT	8.00 FEET	STEEL & BITS COST/FT		\$0.40	MARGIN 10.00%	INS/COMM 1.00%	FREIGHT 3.00%		
AVER BRK	7.00 FEET								
MONTH	30 DAYS								
ADVANCE	14.0 FEET/DAY								

CURRAGH-FARO DEPOSIT
6.0 FT x 6.0 FT
ALIMAK RAISE

DIRECT LABOUR COSTS

DESCRIPTION	RATE PER HOUR	HOURS / WEEK			WAGE COST /WEEK	WAGE COST	DAILY BONUS COST	SUBTOTAL COST	FRINGES 20%	ROOM & BOARD	TOTAL PER MAN	# MEN REQ'D	TOTAL DAILY
		STRAIGHT	OVERTIME	TOTAL									
MINER	\$15.00	40	16	64	\$960.00	\$137.14	\$96.00	\$233.14	\$46.63	\$25.00	\$304.77	5	\$1,523.86

DIRECT LABOUR COST= \$1,523.86 /DAY @ 14.00 FT/DAY = \$108.85 /FT

SUPPORT LABOUR COST

DESCRIPTION	RATE PER HOUR	HOURS / WEEK			WAGE COST /WEEK	WAGE COST	DAILY BONUS COST	SUBTOTAL COST	FRINGES 20%	ROOM & BOARD	TOTAL PER MAN	# MEN REQ'D	TOTAL DAILY
		STRAIGHT	OVERTIME	TOTAL									
PROJ. SUPT	\$17.00	40	16	64	\$1,088.00	\$155.43	\$96.00	\$251.43	\$50.29	\$25.00	\$326.71	0	\$0.00
SHIFTBOSS	\$16.25	40	16	64	\$1,040.00	\$148.57	\$96.00	\$244.57	\$48.91	\$25.00	\$318.49	0	\$0.00
MECHANIC	\$16.00	40	16	64	\$1,024.00	\$146.29	\$48.00	\$194.29	\$38.86	\$25.00	\$258.14	0	\$0.00
ELECT.	\$16.00	40	16	64	\$1,024.00	\$146.29	\$48.00	\$194.29	\$38.86	\$25.00	\$258.14	0	\$0.00
SURV/EXP	\$12.50	40	16	64	\$800.00	\$114.29	\$0.00	\$114.29	\$22.86	\$25.00	\$162.14	0	\$0.00
CLERK	\$10.00	40	16	64	\$640.00	\$91.43	\$0.00	\$91.43	\$18.29	\$25.00	\$134.71	0	\$0.00
EXPEDITOR	\$12.50	40	16	64	\$800.00	\$114.29	\$0.00	\$114.29	\$22.86	\$25.00	\$162.14	0	\$0.00

SUPPORT LABOUR COST = \$0.00 /DAY @ 14.00 FT/DAY = \$0.00 /FT

HEADING SIZE = 6.0 x 6.0 FT

 DRILL STEEL & BIT COST

Holes Drilled Per Round	Hole Depth	Hole Total Ft Drilled Per Round	Steel & Bit Cost Per Ft Drilled	Total Steel & Bits Cost	Average Break Per Round	Steel & Bits Cost Per Ft
31	8	248 FT	\$0.40	\$99.20	7.00 FT	\$14.17
3 (REAMED)	8	24 FT	\$0.50	\$12.00	7.00 FT	\$1.71
TOTAL						\$15.89 /FT

 EXPLOSIVES & ACCESSORIES COST

HEADING SIZE = 6.0 x 6.0 FT
 HOLES DRILLED = 34
 HOLES BLASTED = 31
 HOLE DIAMETER = 1 3/8 "
 POWDER TO BE USED = AMEX, CILGEL 70%
 AVERAGE BREAK/RND = 7.00 FEET

DESCRIPTION	NO. OF HOLES	STICKS PER HOLE	TOTAL STICKS	STICKS /CASE	CASE REQ'D	COST PER CASE	TOTAL COST
PRIMER H.E.	31	1	31	195	0.16	\$97.86	\$15.56
PERIMETER XACTEX	0	0	0	100	0.00	\$147.95	\$0.00
LIFTERS & H.E.	0	0	0	195	0.00	\$97.86	\$0.00
CUT H.E.	3	10	30	195	0.15	\$97.86	\$15.06
BLASTHOLES AMEX	28	0.53 (LB/FT)	104 (LB.)	-	-	\$0.45 /LB.	\$46.75
SUBTOTAL							\$77.36
12.00% F.S.T.							\$9.28
0.00% P.S.T.							\$0.00
TOTAL							\$86.64

DESCRIPTION	NO. OF HOLES	CAPS PER HOLE	TOTAL CAPS OR FUSE	COST PER CAP	COST PER ROUND	COST OF MISC.	TOTAL COST
DETONATORS	31	1	31	\$2.14	\$66.34	\$5.00	\$71.34
12.00% F.S.T.							\$8.56
0.00% P.S.T.							\$0.00

TOTAL EXPLOSIVES COST = \$86.64
 TOTAL DETONATORS COST = \$79.90

TOTAL \$79.90

TOTAL COST = \$166.54 PER RND / 7.00 FT = \$23.79 / FT

EQUIPMENT RENTAL AND REPAIR COST

EQUIPMENT DESCRIPTION	COMMENTS	RENT PER UNIT	NO. OF UNITS REQ'D	TOTAL RENTAL COST/MONTH	REPAIR COST PER HR., M.	HRS. OPERATING PER DAY OR M. DRILLED	REPAIR COST PER DAY	RENTAL COST PER DAY	REPAIR COST PER DAY
ALIMAK C/W RAILS		\$10,000	1	\$10,000	\$17.00	15 HR	\$272.00	\$333.33	\$272.00
JACKLEG / STOPER		\$220	4	\$880	\$1.00	6 HR	\$6.00	\$29.33	\$6.00
DRILL REPAIR		-	-	-	\$0.15	476 FT	\$71.40	\$0.00	\$71.40
INTERMEDIATE LOADER		\$200	1	\$200	\$0.25	3 HR	\$0.75	\$6.67	\$0.75
ST 8 SCOOPTRAM		\$10,000	-	\$0	\$29.00	3 HR	\$87.00	\$0.00	\$87.00
<u>TOTALS</u>				\$11,080 PER MONTH				\$369.33	\$437.15
							ADVANCE PER DAY	RENTALS	14.00 FT/DAY REPAIRS
							COST/FT	\$26.38	\$31.23

FUEL / LUBE COST

EQUIPMENT DESCRIPTION	ENGINE	NUMBER OF UNITS REQ'D	OPERATING HOURS PER DAY PER UNIT	TOTAL OPERATING HOURS PER DAY	FUEL REQ'D PER HOUR	TOTAL FUEL PER DAY	FUEL COST PER LITRE	FUEL COST PER DAY	LUBE COST @ 15% OF FUEL COST	TOTAL OPER. COST PER DAY
ST 8 SCOOPTRAM	-	1	3	3	48.0 LT	144.0	\$0.40	\$57.60	\$8.64	\$66.24
ALIMAK	-	1	24	24	- LT	0.0	-	\$0.00	\$25.00	\$25.00
JACKLEG / STOPER	-	4	0	0	0.0 LT	0.0	-	\$0.00	\$2.50	\$2.50

OPERATING COST = \$93.74 /DAY @ 14.00 FT/DAY = \$6.70 COST/FT

\$93.74

CURRAGH - FARD DEPOSIT

11.0 x 20.0 FT

SHANTY BACK

BID SUMMARY SHEET

MINING 1500 TONNES/DAY

<u>CATEGORY</u>	<u>COST / FT</u>
DIRECT LABOUR	\$97.37
SUPPORT LABOUR	\$53.86
STEEL & BITS	\$27.38
EXPLOSIVES & ACCESSORIES	\$53.17
EQUIPMENT RENTAL	\$46.56
EQUIPMENT REPAIR	\$33.80
FUEL & LUBE	\$17.38
PIPE & ACCESSORIES	\$8.52
VENTILATION & ACCESSORIES	\$11.39
ELECTRIC CABLE	\$13.43
GROUND SUPPORT MATERIALS	\$4.50
HOSES, SMALL TOOLS	\$3.67
INSURANCE, COMMUNICATION	\$3.67
FREIGHT DURING CONTRACT	\$11.02
<hr/>	
SUBTOTAL	\$385.72
G & A 15.0%	\$57.86
<hr/>	
TOTAL COST	\$443.58
MARGIN 10.0%	\$38.57
PRICE	\$482.15 /FT

COST PER TONNE =

\$482.15 /FT x 80.00 FT/DAY

= 38,572.37 /DAY / 1,500 TONNES

= \$25.71 / TONNE

(B:FARMIN)

VARIABLES

S/T HOURS	40 /WK	LABOUR	QUANTITY	RATE/HR	BONUS/HR	EXPLOSIVES COSTS	STKS/CSE	# LIFTERS	19	
DAYS/WK	7 /WK	PROJ.SUPT	1	\$17.00	\$12.00	CILGEL \$97.86 PER CSE.	125	# PROHOLE	11 HALF AMEX	CURRAGH - FARD DEPOSIT
O/T HOURS	16 /WK	NITE CAPT	1	\$16.50	\$12.00	AMEX \$0.45 PER LB.	1.04	# PERIM	15	
O/T RATE	1.50	SHIFTBOSS	3	\$16.25	\$12.00	XACTEX \$147.95 PER CSE.	100	# CUT	3	
BONUS	\$12.00 /HR	MAST MECH	1	\$16.25	\$12.00	CAPS \$2.14 EACH	-	TOTAL	48	MINING 1500 TONNES / DAY
HRLY FRNG	20%	MAST ELECT	1	\$16.25	\$12.00	MISC \$5.00	-	DR REPAIR	\$0.15 /FT	
STAFF FRG	20%	MECHANIC	4	\$16.00	\$6.00					
RM+BD	\$25.00 /DAY	ELECT.	1	\$16.00	\$6.00	GAS COST \$0.600 /LITRE				
HOLE/RND	55	JUMBO MIN	6	\$15.00	\$12.00	FUEL COST \$0.400 /LITRE				
HOLE/DEPT	14 FEET	SCDDP OP	3	\$15.00	\$12.00		HOSES	1.00%		
AVER BRK	12.50 FEET	TRUCK OP	3	\$15.00	\$12.00	B & A	15.00%	INS/COMM	1.00%	
MONTH	30 DAYS	ROCKBOLT	3	\$15.00	\$12.00	MARGIN	10.00%	FREIGHT	3.00%	
ADVANCE	80.00 FEET/DAY	LOAD/BLAST	6	\$15.00	\$9.00					
		SERVICES	4	\$15.00	\$9.00					
		ENGINEER	1	\$15.00	\$0.00					
		SURVEYOR	1	\$14.00	\$0.00					
		CLERK	1	\$10.00	\$0.00					
		TOTAL	40							

STEEL & BITS COST/FT \$0.40

DIRECT LABOUR COSTS

DESCRIPTION	RATE PER HOUR	HOURS / WEEK			WAGE COST /WEEK	WAGE COST	DAILY BONUS COST	SUBTOTAL COST	FRINGES 20%	FARES	ROOM & BOARD	TOTAL PER MAN	# MEN REQ'D	TOTAL DAILY
		STRAIGHT	OVERTIME	TOTAL										
JUMBO MIN	\$15.00	40	16	64	\$960.00	\$137.14	\$96.00	\$233.14	\$46.63	\$18.33	\$25.00	\$323.10	6	\$1,938.63
SCDDP OP	\$15.00	40	16	64	\$960.00	\$137.14	\$96.00	\$233.14	\$46.63	\$18.33	\$25.00	\$323.10	3	\$969.31
TRUCK OP	\$15.00	40	16	64	\$960.00	\$137.14	\$96.00	\$233.14	\$46.63	\$18.33	\$25.00	\$323.10	3	\$969.31
ROCKBOLT	\$15.00	40	16	64	\$960.00	\$137.14	\$96.00	\$233.14	\$46.63	\$18.33	\$25.00	\$323.10	3	\$969.31
LOAD/BLAST	\$15.00	40	16	64	\$960.00	\$137.14	\$72.00	\$209.14	\$41.83	\$18.33	\$25.00	\$294.30	6	\$1,765.83
SERVICES	\$15.00	40	16	64	\$960.00	\$137.14	\$72.00	\$209.14	\$41.83	\$18.33	\$25.00	\$294.30	4	\$1,177.22

25 \$7,789.62

DIRECT LABOUR COST= \$7,789.62 /DAY @ 80.00 FT/DAY = \$97.37 /FT

SUPPORT LABOUR COST

DESCRIPTION	RATE PER HOUR	HOURS / WEEK			WAGE COST /WEEK	WAGE COST	DAILY BONUS COST	SUBTOTAL COST	FRINGES 20%	FARES	ROOM & BOARD	TOTAL PER MAN	# MEN REQ'D	TOTAL DAILY
		STRAIGHT	OVERTIME	TOTAL										
PROJ.SUPT	\$17.00	40	16	64	\$1,088.00	\$153.43	\$96.00	\$251.43	\$50.29	\$18.33	\$25.00	\$345.05	1	\$345.05
NITE CAPT	\$16.50	40	16	64	\$1,056.00	\$150.86	\$96.00	\$246.86	\$49.37	\$18.33	\$25.00	\$339.56	1	\$339.56
SHIFTBOSS	\$16.25	40	16	64	\$1,040.00	\$148.57	\$96.00	\$244.57	\$48.91	\$18.33	\$25.00	\$336.82	3	\$1,010.46
MAST MECHANIC	\$16.25	40	16	64	\$1,040.00	\$148.57	\$96.00	\$244.57	\$48.91	\$18.33	\$25.00	\$336.82	1	\$336.82
MECHANIC	\$16.00	40	16	64	\$1,024.00	\$146.29	\$48.00	\$194.29	\$38.86	\$18.33	\$25.00	\$276.48	4	\$1,105.90
MAST ELECTRICIAN	\$16.25	40	16	64	\$1,040.00	\$148.57	\$96.00	\$244.57	\$48.91	\$18.33	\$25.00	\$336.82	1	\$336.82
ELECT.	\$16.00	40	16	64	\$1,024.00	\$146.29	\$48.00	\$194.29	\$38.86	\$18.33	\$25.00	\$276.48	1	\$276.48
ENGINEER	\$15.00	40	16	64	\$960.00	\$137.14	\$0.00	\$137.14	\$27.43	\$18.33	\$25.00	\$207.90	1	\$207.90
SURVEYOR	\$14.00	40	16	64	\$896.00	\$128.00	\$0.00	\$128.00	\$25.60	\$18.33	\$25.00	\$196.93	1	\$196.93
CLERK	\$10.00	40	16	64	\$640.00	\$91.43	\$0.00	\$91.43	\$18.29	\$18.33	\$25.00	\$153.05	1	\$153.05

15 \$4,308.97

SUPPORT LABOUR COST = \$4,308.97 /DAY @ 80.00 FT/DAY = \$53.86 /FT

 HEADING SIZE = 11.0 x 20.0 FT

 DRILL STEEL & BIT COST

	HOLES DRILLED PER ROUND	HOLE DEPTH	TOTAL FT DRILLED PER ROUND	STEEL & BIT COST PER FT DRILLED	TOTAL STEEL & BITS COST	AVERAGE BREAK PER ROUND	STEEL & BITS COST PER FT
	52	14.00	728 FT	\$0.40	\$291.20	12.50 FT	\$23.30
	3 (REAMED)	14.00	42 FT	\$0.50	\$21.00	12.50 FT	\$1.68
ROCKBOLTING			480 FT	\$0.40	\$192.00	80.00 FT	\$2.40
						TOTAL	\$27.38 /FT

 EXPLOSIVES & ACCESSORIES COST

HEADING SIZE = 11.0 x 20.0 FT
 HOLES DRILLED = 55
 HOLES BLASTED = 52
 HOLE DIAMETER = 1 3/4 "
 POWDER TO BE USED = AMEX, CILGEL 70%, XACTEX
 AVERAGE BREAK/RND = 12.50 FEET

DESCRIPTION	NO. OF HOLES	STICKS PER HOLE	TOTAL STICKS	STICKS /CASE	CASE REQ'D	COST PER CASE	TOTAL COST
PRIMER H.E.	52	1	52	125	0.42	\$97.86	\$40.71
PERIMETER XACTEX	15	4	60	100	0.60	\$147.95	\$88.77
LIFTERS & H.E.	19	16	304	125	2.43	\$97.86	\$238.00
CUT H.E.	3	16	48	125	0.38	\$97.86	\$37.58
BLASTHOLES AMEX	11	1.04 (LB/FT)	160 (LB.)	-	-	\$0.45 /LB.	\$72.07
						SUBTOTAL	\$477.13
						12.00% F.S.T.	\$57.26
						0.00% P.S.T.	\$0.00
						TOTAL	\$534.38

DESCRIPTION	NO. OF HOLES	CAPS PER HOLE	TOTAL CAPS OR FUSE	COST PER CAP	COST PER ROUND	COST OF MISC.	TOTAL COST
DETONATORS	52	1	52	\$2.14	\$111.28	\$5.00	\$116.28
						12.00% F.S.T.	\$13.95
						0.00% P.S.T.	\$0.00
						TOTAL	\$130.23

TOTAL EXPLOSIVES COST = \$534.38
 TOTAL DETONATORS COST = \$130.23

TOTAL COST = \$664.61 PER RND / 12.50 FT = \$53.17 / FT

EQUIPMENT RENTAL AND REPAIR COST

EQUIPMENT DESCRIPTION	COMMENTS	RENT PER UNIT	NO. OF UNITS REQ'D	TOTAL RENTAL COST/MONTH	REPAIR COST PER HR., M.	HRS. OPERATING PER DAY OR M. DRILLED	REPAIR COST PER DAY	RENTAL COST PER DAY	REPAIR COST PER DAY
3 BOOM ELECTRIC/HYDRAULIC JUMBO		\$10,000	2	\$20,000	\$15.00	6 HR	\$90.00	\$666.67	\$90.00
DRILL REPAIR		-	-	-	\$0.15	4400 FT	\$660.00	\$0.00	\$660.00
ST - 8 SCDOPTRAM		\$10,000	3	\$30,000	\$29.00	24 HR	\$696.00	\$1,000.00	\$696.00
CM 1824 TRUCK		\$8,700	3	\$26,100	\$23.00	24 HR	\$552.00	\$870.00	\$552.00
ROCKBOLT JUMBO		\$3,500	1	\$3,500	\$18.00	12 HR	\$216.00	\$116.67	\$216.00
DRILL REPAIR		-	-	-	\$0.15	480 FT	\$72.00	\$0.00	\$72.00
600 CFM ELECT. COMPRESSOR		\$2,100	1	\$2,100	\$1.50	24 HR	\$36.00	\$70.00	\$36.00
FRESHWATER PUMP - ELECTRIC		\$210	1	\$210	\$0.25	24 HR	\$6.00	\$7.00	\$6.00
WAREHOUSE TRAILER		\$300	1	\$300	\$0.00	0 HR	\$0.00	\$10.00	\$0.00
OFFICE/DRY TRAILER		\$600	1	\$600	\$0.00	0 HR	\$0.00	\$20.00	\$0.00
MINE LIGHTS & CHARGER		\$10	45	\$450	\$1.25	24 HR	\$30.00	\$15.00	\$30.00
38" x 75 HP JOY FAN		\$450	5	\$2,250	\$0.25	120 HR	\$30.00	\$75.00	\$30.00
OXY & ACET TORCHES		\$50	1	\$50	\$1.00	8 HR	\$8.00	\$1.67	\$8.00
SAFETY GEAR		\$100	1	\$100	\$0.00	8 HR	\$0.00	\$3.33	\$0.00
FIRST AID GEAR		\$150	1	\$150	\$0.00	8 HR	\$0.00	\$5.00	\$0.00
SHOP TOOLS		\$1,000	1	\$1,000	\$0.00	0 HR	\$0.00	\$33.33	\$0.00
SURVEY GEAR		\$450	1	\$450	\$1.00	8 HR	\$8.00	\$15.00	\$8.00
POWDER/CAP MAGAZINE		\$750	1	\$750	\$0.00	0 HR	\$0.00	\$25.00	\$0.00
PICKUP / CREW VAN		\$1,000	4	\$4,000	\$4.50	12 HR	\$54.00	\$133.33	\$54.00
JACKLEG / STOPER		\$220	4	\$880	\$1.00	8 HR	\$8.00	\$29.33	\$8.00
400 AMP WELDER		\$150	1	\$150	\$0.25	8 HR	\$2.00	\$5.00	\$2.00
U/B PUMPS (13,30 HP)		\$1,000	5	\$5,000	\$3.00	24 HR	\$72.00	\$166.67	\$72.00
GROUT PUMP		\$1,000	1	\$1,000	\$0.00	0 HR	\$0.00	\$33.33	\$0.00
GRADER/DOZER		\$4,000	1	\$4,000	\$15.00	3 HR	\$45.00	\$133.33	\$45.00
16 MAN CARRIER		\$3,500	1	\$3,500	\$9.50	6 HR	\$57.00	\$116.67	\$57.00
2 MAN CARRIER		\$2,500	2	\$5,000	\$7.50	8 HR	\$60.00	\$166.67	\$60.00
INTERMEDIATE LOADER		\$200	1	\$200	\$0.25	8 HR	\$2.00	\$6.67	\$2.00
TOTALS				\$111,740 PER MONTH				\$3,724.67	\$2,704.00

ADVANCE PER DAY
RENTALS 80.00 FT/DAY
COST/FT \$46.56 REPAIRS \$33.80

FUEL / LUBE COST

EQUIPMENT DESCRIPTION	ENGINE	NUMBER OF UNITS REQ'D	OPERATING HOURS PER UNIT PER UNIT	TOTAL OPERATING HOURS PER DAY	FUEL REQ'D PER HOUR	TOTAL FUEL PER DAY	FUEL COST PER LITRE	FUEL COST PER DAY	LUBE COST @ 15% OF FUEL COST	TOTAL OPER. COST PER DAY
3 BOOM ELECT/HYD JUMBO		1	6	6	16.7 LT	100.0	\$0.40	\$39.98	\$6.00	\$45.98
ST - 8 SCDOPTRAM		2	12	24	48.0 LT	1152.0	\$0.40	\$460.80	\$69.12	\$529.92
CM 1824 TRUCK		1	24	24	48.0 LT	1152.0	\$0.40	\$460.80	\$69.12	\$529.92
ROCKBOLT JUMBO		1	12	12	16.7 LT	199.9	\$0.40	\$79.97	\$12.00	\$91.96
GRADER/DOZER		1	3	3	16.7 LT	50.0	\$0.40	\$19.99	\$3.00	\$22.99
16 MAN CARRIER		1	6	6	16.7 LT	100.0	\$0.40	\$39.98	\$6.00	\$45.98
2 MAN CARRIER		2	4	8	16.7 LT	133.3	\$0.40	\$53.31	\$8.00	\$61.31
PICKUP / CREW VAN		2	3	6	15.0 LT	90.0	\$0.60	\$54.00	\$8.10	\$62.10

OPERATING COST = \$1,390.17 /DAY @ 80.00 FT/DAY = \$17.38 COST/FT

\$1,390.17

 ELECTRIC CABLE COST

ITEMS	3C #12			3C #6 (PUMP)			3C #2			3C #4/0			BLAST LINE (2C #18)		
	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE	AMOUNT	PRICE EACH	TOTAL PRICE
ELECTRIC CABLE	0	\$0.87	\$0.00	0	\$2.29	\$0.00	0	\$4.29	\$0.00	1	\$10.40	\$10.40	1	\$0.50	\$0.50
SUBTOTAL			\$0.00			\$0.00			\$0.00			\$10.40			\$0.50
DAMAGE @ 10%			\$0.00			\$0.00			\$0.00			\$1.04			\$0.05
F.S.T. @ 12%			\$0.00			\$0.00			\$0.00			\$1.37			\$0.07
P.S.T. @ 0%			\$0.00			\$0.00			\$0.00			\$0.00			\$0.00
TOTALS			\$0.00			\$0.00			\$0.00			\$12.81			\$0.62
COST/FT =	\$13.43		\$0.00 /FT			\$0.00 /FT			\$0.00 /FT			\$12.81 /FT			\$0.62

 GROUND SUPPORT MATERIALS

INSTALL 80 - 6 FT BOLTS PER DAY @ \$4.50 EACH = \$360.00 DAY / 80.00 FT/DAY = \$4.50 /FT

CURRAGH - FARO DEPOSIT

MINING

1,500 TONNES/DAY

BID SUMMARY SHEET

<u>CATEGORY</u>	<u>TOTAL COST / TONNE</u>	<u>DEVELOPMENT * COST / FT</u>
DIRECT LABOUR	\$10.46	-
SUPPORT LABOUR	\$2.64	-
STEEL & BITS	\$1.23	\$24.98
EXPLOSIVES & ACCESSORIES	\$3.08	\$53.17
EQUIPMENT RENTAL	\$2.71	-
EQUIPMENT REPAIR	\$1.84	-
FUEL & LUBE	\$0.97	-
PIPE & ACCESSORIES	\$0.10	\$16.61
VENTILATION & ACCESSORIES	\$0.24	\$11.39
ELECTRIC CABLE	\$0.10	\$16.25
GROUND SUPPORT MATERIAL	\$0.24	-
* 15.04 FT OF DEV @ \$122.40 /FT/ 1,500	\$1.23	-
HOSES, SMALL TOOLS	\$0.23	-
INSURANCE, COMMUNICATION	\$0.23	-
FREIGHT DURING CONTRACT	\$0.70	-
ELECTRIC POWER	-	-
SUBTOTAL	\$26.00	\$122.40 /FT
G & A 15.0%	\$3.90	
TOTAL COST	\$29.90	
MARGIN 10.0%	\$2.60	
PRICE	\$32.50 /TONNE	

* NOTE : Development req'd

From plans -require 1,500 ft of level development and 500 ft of muckbay
 Total tonnes mined by slusher = 200,000
 Duration = 200,000 / 1,500 tonnes/day
 = 133 days
 Development/Day = 2,000 ft/ 133 days
 = 15.04 ft/day

(B:FARMIN1)

VARIABLES

MINING 1500 TPD

S/T HOURS	40 /WK	LABOUR	QUANTITY	RATE/HR	BONUS/HR	EXPLOSIVES COSTS	STKS/CSE	# LIFTERS	-
DAYS/WK	7 /WK	PROJ.SUPT	1	\$17.00	\$12.00	CILGEL \$97.86 PER CSE.	195	# PRDHOLE	- HALF AMEX
O/T HOURS	16 /WK	NITE CAPT.	1	\$16.50	\$12.00	AMEX \$0.45 PER LB.	0.60	# PERIM	-
D/T RATE	1.50	CLERK/F. A.	1	\$10.00	\$0.00	XACTEX \$147.95 PER CSE.	100	# CUT	-
BONUS	\$12.00 /HR	SHIFTBOSS	3	\$16.25	\$12.00	CAPS \$2.14 EACH	-	TOTAL	0
HRLY FRNG	20%	ENGINEER	1	\$15.00	\$0.00	MISC \$5.00	-	DR REPAIR	\$0.15 /FT
STAFF FRG	20%	MAST. MECH	1	\$16.25	\$8.00	FUEL COST \$0.40 /LITRE			
RM+BD	\$25.00 /DAY	CHIEF ELEC	1	\$16.25	\$8.00	BAS COST \$0.60 /LITRE			
MONTH	30 DAYS	MECHANIC	4	\$16.00	\$6.00	G & A 15.00%	HOSES 1.00%		
TONNAGE	1,500 TONNES/DAY	ELECT.	1	\$16.00	\$6.00	MARGIN 10.00%	INS/COMM 1.00%		
		SURVEYOR	1	\$14.00	\$0.00	STEEL & BITS COST/FT \$0.40	FREIGHT 3.00%		
		SERVICES	4	\$15.00	\$6.00				
		STPE MINER	41	\$15.00	\$12.00				
		DEV MINER	2	\$15.00	\$12.00				
		ORE HAUL	6	\$15.00	\$8.00				
		TOTAL	58						

DIRECT LABOUR COSTS

DESCRIPTION	RATE PER HOUR	HOURS / WEEK			WAGE COST /WEEK	WAGE COST	DAILY BONUS COST	SUBTOTAL COST	FRINGES 20%	ROOM & BOARD	TOTAL PER MAN	# MEN REQ'D	TOTAL DAILY
		STRAIGHT	OVERTIME	TOTAL									
SERVICES	\$15.00	40	16	64	\$960.00	\$137.14	\$48.00	\$185.14	\$37.03	\$25.00	\$247.17	4	\$988.69
STPE MINER	\$15.00	40	16	64	\$960.00	\$137.14	\$96.00	\$233.14	\$46.63	\$25.00	\$304.77	41	12,495.63
DEV MINER	\$15.00	40	16	64	\$960.00	\$137.14	\$96.00	\$233.14	\$46.63	\$25.00	\$304.77	2	\$609.54
ORE HAUL	\$15.00	40	16	64	\$960.00	\$137.14	\$64.00	\$201.14	\$40.23	\$25.00	\$266.37	6	\$1,598.23

DIRECT LABOUR COST= 15,692.09 /DAY @ 1,500 TONNE/DAY= \$10.46 /TONNE

SUPPORT LABOUR COST

DESCRIPTION	RATE PER HOUR	HOURS / WEEK			WAGE COST /WEEK	WAGE COST	DAILY BONUS COST	SUBTOTAL COST	FRINGES 20%	ROOM & BOARD	TOTAL PER MAN	# MEN REQ'D	TOTAL DAILY
		STRAIGHT	OVERTIME	TOTAL									
PROJ.SUPT	\$17.00	40	16	64	\$1,088.00	\$155.43	\$96.00	\$251.43	\$50.29	\$25.00	\$326.71	1	\$326.71
NITE CAPT.	\$16.50	40	16	64	\$1,056.00	\$150.86	\$96.00	\$246.86	\$49.37	\$25.00	\$321.23	1	\$321.23
CLERK/F. A.	\$10.00	40	16	64	\$640.00	\$91.43	\$0.00	\$91.43	\$18.29	\$25.00	\$134.71	1	\$134.71
SHIFTBOSS	\$16.25	40	16	64	\$1,040.00	\$148.57	\$96.00	\$244.57	\$48.91	\$25.00	\$318.49	3	\$955.46
ENGINEER	\$15.00	40	16	64	\$960.00	\$137.14	\$0.00	\$137.14	\$27.43	\$25.00	\$189.57	1	\$189.57
MAST. MECH	\$16.25	40	16	64	\$1,040.00	\$148.57	\$64.00	\$212.57	\$42.51	\$25.00	\$280.09	1	\$280.09
CHIEF ELEC	\$16.25	40	16	64	\$1,040.00	\$148.57	\$64.00	\$212.57	\$42.51	\$25.00	\$280.09	1	\$280.09
MECHANIC	\$16.00	40	16	64	\$1,024.00	\$146.29	\$48.00	\$194.29	\$38.86	\$25.00	\$258.14	4	\$1,032.57
ELECT.	\$16.00	40	16	64	\$1,024.00	\$146.29	\$48.00	\$194.29	\$38.86	\$25.00	\$258.14	1	\$258.14
SURVEYOR	\$14.00	40	16	64	\$896.00	\$128.00	\$0.00	\$128.00	\$25.60	\$25.00	\$178.60	1	\$178.60

SUPPORT LABOUR COST = \$3,957.17 /DAY @ 1,500 TONNE/DAY= \$2.64 /TONNE

15 \$3,957.17

 DRILL STEEL & BIT COST

	Holes Drilled Per Round	Hole Depth	Total Ft Drilled Per Round	Steel & Bit Cost Per Ft Drilled	Total Steel & Bits Cost	Average Break Per Round	Steel & Bits Cost Per Ton
PILOT (2 ROUNDS)							
REGULAR - 2 x 23	46	6.00	276 FT	\$0.30	\$82.80	225 TONNES	\$0.37
REAMING - 2 x 3	6 (REAMED)	6.00	36 FT	\$0.40	\$14.40	225 TONNES	\$0.06
SLASH	60	10.00	600 FT	\$0.30	\$180.00	225 TONNES	\$0.80
						TOTAL	\$1.23 /TONNE

 EXPLOSIVES & ACCESSORIES COST

PILOT

HEADING SIZE = 4' x 6'
 HOLES DRILLED = 26
 HOLES BLASTED = 23
 HOLE DIAMETER = 1 1/4 "
 POWDER TO BE USED = AMEX, CILGEL 70%
 AVERAGE BREAK/RND = 5.00 FEET

DESCRIPTION	NO. OF HOLES	STICKS PER HOLE	TOTAL STICKS	STICKS /CASE	CASE REQ'D	COST PER CASE	TOTAL COST
PRIMER H.E.	23	1	23	195	0.12	\$97.86	\$11.54
PERIMETER XACTEX	0	5	0	100	0.00	\$147.95	\$0.00
LIFTERS & H.E.	3	6	18	195	0.09	\$97.86	\$9.03
CJT H.E.	0	0	0	195	0.00	\$97.86	\$0.00
BLASTHOLES AMEX	23	0.60 (LB/FT)	69 (LB.)	-	-	\$0.45 /LB.	\$31.05
							SUBTOTAL \$51.63
							12.00% F.S.T. \$6.20
							0.00% P.S.T. \$0.00
							TOTAL \$57.82

DESCRIPTION	NO. OF HOLES	CAPS PER HOLE	TOTAL CAPS OR FUSE	COST PER CAP	COST PER ROUND	COST OF MISC.	TOTAL COST
DETONATORS	23	1	23	\$2.14	\$49.22	\$5.00	\$54.22

12.00% F.S.T. \$6.51
 0.00% P.S.T. \$0.00

TOTAL EXPLOSIVES COST = \$57.82
 TOTAL DETONATORS COST = \$60.73

TOTAL \$60.73

TOTAL COST = \$118.55 PER RND x 2 RND / 225 TONNES = \$1.05 / TONNE

SLASH

HEADING SIZE = 2 x 23' x 10'
 HOLES DRILLED = 60
 HOLES BLASTED = 60
 HOLE DIAMETER = 1 1/4"
 POWDER TO BE USED = AMEX, CILGEL 70%
 AVERAGE BREAK/RND = 10.00 FEET

EXPLOSIVES & ACCESSORIES COST

DESCRIPTION	NO. OF HOLES	STICKS PER HOLE	TOTAL STICKS	STICKS /CASE	CASE REQ'D	COST PER CASE	TOTAL COST
PRIMER H.E.	60	1	60	195	0.31	\$97.86	\$30.11
PERIMETER XACTEX	22	4	88	100	0.88	\$147.95	\$130.20
LIFTERS & H.E.	0	0	0	195	0.00	\$97.86	\$0.00
CUT H.E.	0	0	0	195	0.00	\$97.86	\$0.00
BLASTHOLES AMEX	38	0.60 (LB/FT)	251 (LB.)	-	-	\$0.45 /LB.	\$112.86
SUBTOTAL							\$273.17

12.00% F.S.T. \$32.78
 0.00% P.S.T. \$0.00

TOTAL \$305.95

TOTAL EXPLOSIVES COST

PILOT \$1.05 / TONNE
 SLASH \$2.02 / TONNE
 TOTAL \$3.08 / TONNE

DESCRIPTION	NO. OF HOLES	CAPS PER HOLE	TOTAL CAPS OR FUSE	COST PER CAP	COST PER ROUND	COST OF MISC.	TOTAL COST
DETONATORS	60	1	60	\$2.14	\$128.40	\$5.00	\$133.40

12.00% F.S.T. \$16.01
 0.00% P.S.T. \$0.00

TOTAL \$149.41

TOTAL EXPLOSIVES COST = \$305.95
 TOTAL DETONATORS COST = \$149.41

TOTAL COST = \$455.35 PER RND x 1 RND / 225 TONNES = \$2.02 / TONNE

EQUIPMENT RENTAL AND REPAIR COST

EQUIPMENT DESCRIPTION	COMMENTS	RENT PER UNIT	NO. OF UNITS REQ, D	TOTAL RENTAL COST/MONTH	REPAIR COST PER HR., M.	HRS. OPERATING PER DAY OR M. DRILLED	REPAIR COST PER DAY	RENTAL COST PER DAY	REPAIR COST PER DAY
20 HP 3 DRUM SLUSHER C/W SCRAPER		\$900	10	\$9,000	\$4.50	80 HR	\$360.00	\$300.00	\$360.00
SLUSHER CABLE		\$200	10	\$2,000	-	-	-	-	-
3 BOOM ELECTRIC HYDRAULIC JUMBO		\$10,000	1	\$10,000	\$15.00	2 HR	\$30.00	\$333.33	\$30.00
DRILL REPAIR		-	-	-	\$0.15	770 FT	\$115.50	\$0.00	\$115.50
ST-8 SCOOPTRAM		\$10,000	3	\$30,000	\$29.00	24 HR	\$696.00	\$1,000.00	\$696.00
CM 1824 TRUCK		\$8,700	3	\$26,100	\$23.00	24 HR	\$552.00	\$870.00	\$552.00
JACKLEG / STOPER		\$220	24	\$5,280	\$1.00	65 HR	\$65.00	\$176.00	\$65.00
DRILL REPAIR		-	-	-	\$0.12	3,888 FT	\$466.56	\$0.00	\$466.56
GRADER		\$4,000	1	\$4,000	\$15.00	2 HR	\$30.00	\$133.33	\$30.00
16 MAN CARRIER		\$3,500	1	\$3,500	\$9.50	6 HR	\$57.00	\$116.67	\$57.00
2 MAN CARRIER		\$2,500	2	\$5,000	\$7.50	8 HR	\$60.00	\$166.67	\$60.00
U/6 PUMPS (13,30 HP)		\$1,000	5	\$5,000	\$3.00	24 HR	\$72.00	\$166.67	\$72.00
600 CFM ELECT COMPRESSOR		\$2,100	4	\$8,400	\$1.50	48 HR	\$72.00	\$280.00	\$72.00
38" x 75 HP FAN		\$450	5	\$2,250	\$0.25	120 HR	\$30.00	\$75.00	\$30.00
12" FAN		\$200	10	\$2,000	\$0.20	192 HR	\$38.40	\$66.67	\$38.40
MINE LIGHTS & CHARGER		\$10	60	\$600	\$1.25	24 HR	\$30.00	\$20.00	\$30.00
FIRST AID GEAR		\$150	1	\$150	\$0.00	- HR	\$0.00	\$5.00	\$0.00
SAFETY GEAR		\$100	1	\$100	\$0.00	- HR	\$0.00	\$3.33	\$0.00
400 AMP WELDER		\$150	2	\$300	\$0.25	8 HR	\$2.00	\$10.00	\$2.00
OXY & ACET TORCHES		\$50	2	\$100	\$1.00	8 HR	\$8.00	\$3.33	\$8.00
SURVEY GEAR		\$450	1	\$450	\$1.00	8 HR	\$8.00	\$15.00	\$8.00
INTERMEDIATE LOADER		\$200	10	\$2,000	\$0.25	10 HR	\$2.50	\$66.67	\$2.50
SHOP TOOLS		\$1,000	1	\$1,000	\$0.00	16 HR	\$0.00	\$33.33	\$0.00
FRESH WATER PUMP		\$210	1	\$210	\$0.25	24 HR	\$6.00	\$7.00	\$6.00
OFFICE TRAILER		\$300	1	\$300	\$0.00	- HR	\$0.00	\$10.00	\$0.00
WAREHOUSE TRAILER		\$300	1	\$300	\$0.00	- HR	\$0.00	\$10.00	\$0.00
PICKUP / CREW VAN		\$1,000	4	\$4,000	\$4.50	12 HR	\$54.00	\$133.33	\$54.00
GROUT PUMP		\$1,000	1	\$1,000	\$0.00	- HR	\$0.00	\$33.33	\$0.00
POWDER/CAP MAGAZINE		\$750	1	\$750	\$0.00	- HR	\$0.00	\$25.00	\$0.00

TOTALS

\$123,790 PER MONTH

\$4,059.67

\$2,754.96

ADVANCE PER DAY

1,500 TONNES/DAY

COST/TONNE

RENTALS

REPAIRS

\$2.71

\$1.84

FUEL / LUBE COST

EQUIPMENT DESCRIPTION	ENGINE	NUMBER OF UNITS REQ'D	OPERATING HOURS PER DAY PER UNIT	TOTAL OPERATING HOURS PER DAY	FUEL REQ'D PER HOUR	TOTAL FUEL PER DAY	FUEL COST PER LITRE	FUEL COST PER DAY	LUBE COST @ 15% OF FUEL COST	TOTAL OPER. COST PER DAY
ST 8 SCOOPTRAM	-	3	8	24	48.0 LT	1152.0	\$0.40	\$460.80	\$69.12	\$529.92
CM 1824 TRUCK	-	3	8	24	48.0 LT	1152.0	\$0.40	\$460.80	\$69.12	\$529.92
GRADER/DOZER	-	1	2	2	16.7 LT	33.4	\$0.40	\$13.36	\$2.00	\$15.36
16 MAN CARRIER	-	2	3	6	16.7 LT	100.2	\$0.40	\$40.08	\$6.01	\$46.09
2 MAN CARRIER	-	1	8	8	15.0 LT	120.0	\$0.40	\$48.00	\$7.20	\$55.20
PICKUP / CREW VAN	-	3	4	12	15.0 LT	180.0	\$0.60	\$108.00	\$16.20	\$124.20
JACKLEG / STOPPER	-	-	0	0	0.0 LT	0.0	-	\$0.00	\$50.00	\$50.00
SLUSHER	-	-	0	0	0.0 LT	0.0	-	\$0.00	\$45.00	\$45.00
COMPRESSOR	-	-	0	0	0.0 LT	0.0	-	\$0.00	\$40.00	\$40.00
JUMBO	-	-	0	0	0.0 LT	0.0	-	\$0.00	\$25.00	\$25.00

\$1,460.70

OPERATING COST = \$1,460.70 /DAY @ 1,500 TONNE/DAY= \$0.97 COST/TONNE

GROUND SUPPORT MATERIALS

INSTALL 80 - 6 FT BOLTS PER DAY @ \$4.50 EACH = \$360.00 DAY / 1,500 TONNES = \$0.24 / TONNE

CURRAGH RESOURCES INC.
FARO DEPOSIT
U/G EXPLORATION, DEVELOPMENT, & MINING

DRAWINGS

87-30-001 WORK SCHEDULE

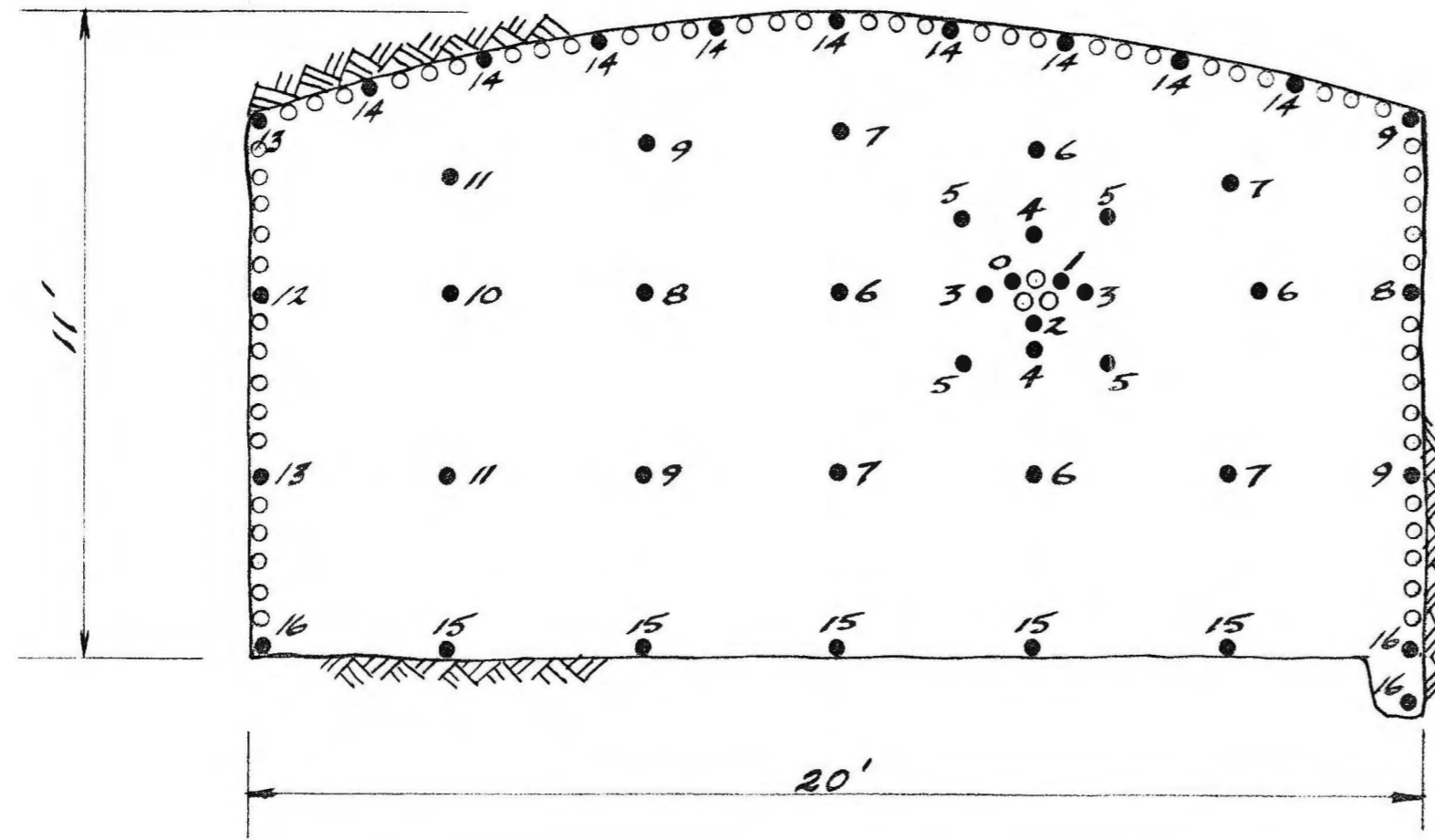
87-30-002 EXPLORATION PLAN

87-30-003 MINING PLAN

87-30-004 11' X 20' COLLAR - DRILL & BLAST PATTERN

87-30-005 11' X 20' RAMP - DRILL & BLAST PATTERN

87-30-006 RAMP IN ORE - DRILL & BLAST PATTERN

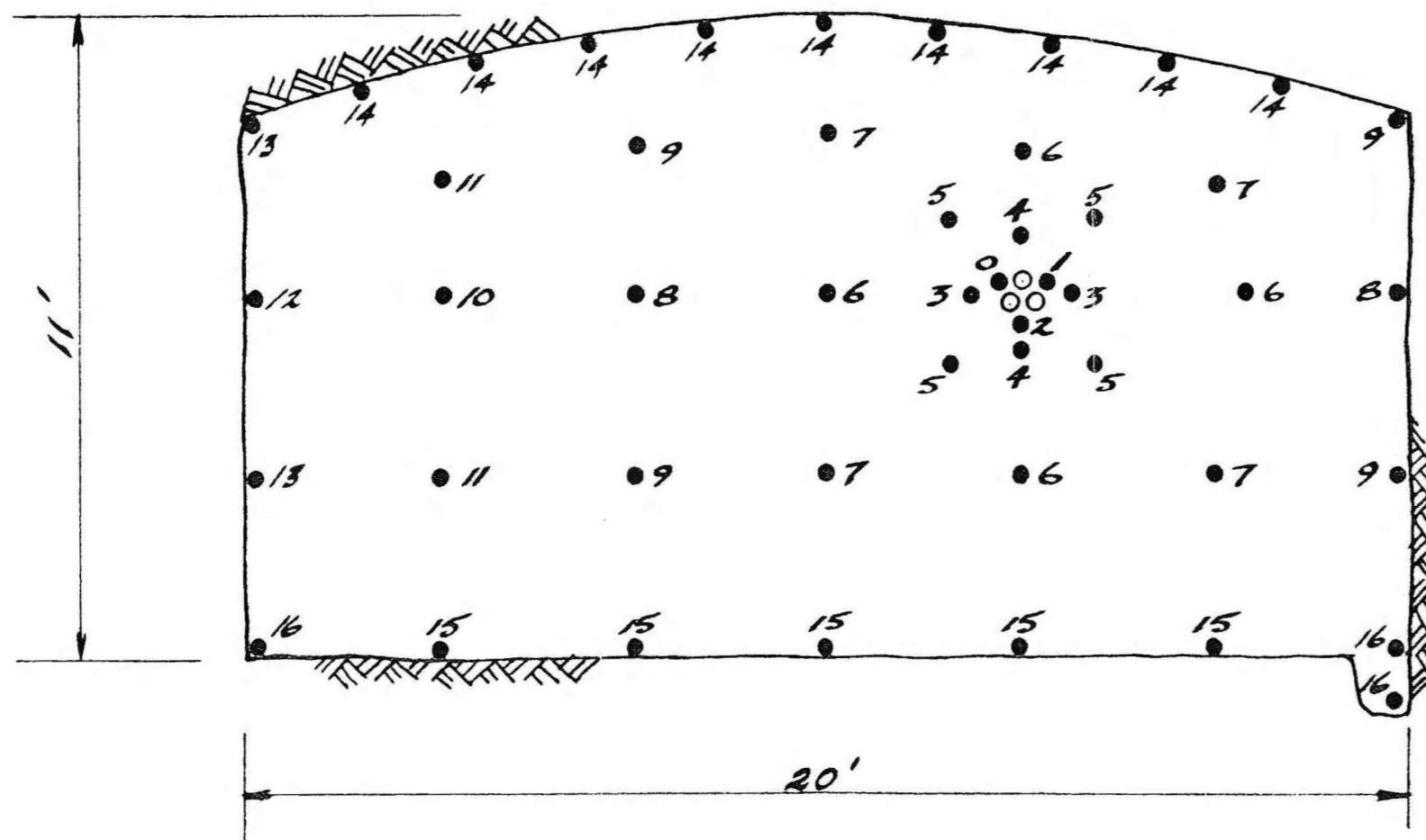


CAP No.	AMOUNT
0	1
1	1
2	1
3	2
4	2
5	4
6	4
7	4
8	2
9	4
10	1
11	2
12	1
13	2
14	9
15	5
16	3
TOTAL	48
DRILL	111
BLAST	48

SCALE: 1"=3'	DATE
DESIGNED: TJ	
DRAWN: WS	JULY 87
CHECKED:	
APPROVED:	



CURRAGH RESOURCES CORP	CANADIAN MINE DEVELOPMENT
FARO DEPOSIT	BRAMPTON, ONT. CANADA
11' X 20' COLLAR	DWG. No. 87-30-004
DRILL & BLAST PATTERN	REV.



CAP No. AMOUNT

0	1
1	1
2	1
3	2
4	2
5	4
6	4
7	4
8	2
9	4
10	1
11	2
12	1
13	2
14	9
15	5
16	3

TOTAL 48

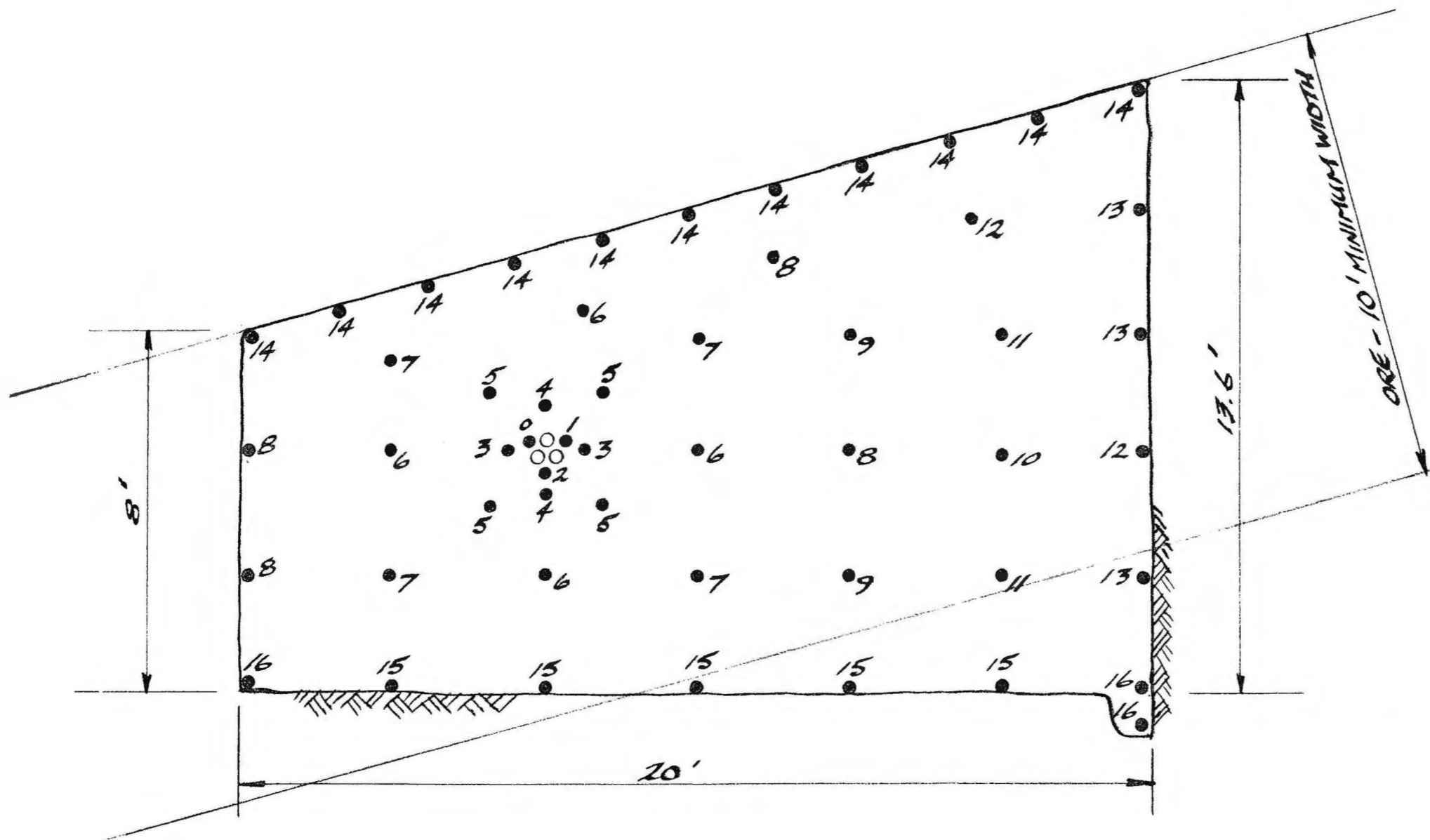
DRILL 51

BLAST 48

SCALE: 1"=3'	DATE
DESIGNED: TJ	
DRAWN: WS	JULY 87
CHECKED:	
APPROVED:	



CURRAGH RESOURCES CORP	CANADIAN MINE DEVELOPMENT
FARO DEPOSIT	BRAMPTON, ONT. CANADA
11' x 20' RAMP	DWG. No. 87-30-005
DRILL & BLAST PATTERN	REV.



CAP No.	AMOUNT
0	1
1	1
2	1
3	2
4	2
5	4
6	4
7	4
8	4
9	2
10	1
11	2
12	2
13	3
14	11
15	5
16	3
TOTAL	52
DRILL	55
BLAST	52

SCALE: 1" = 3'	DATE
DESIGNED: TJ	
DRAWN: WS	JULY 87
CHECKED:	
APPROVED:	



CURRAGH RESOURCES CORP FARO DEPOSIT RAMP IN ORE DRILL & BLAST PATTERN	CANADIAN MINE DEVELOPMENT BRAMPTON, ONT. CANADA	
	DWG. No. 87-30-006	REV.