

SIR ROBERT MC ALPINE & SONS, LTD.

By 3018/75 File TPI contract E14

ELF NORGE A/S

FRIGG FIELD
TREATMENT PLATFOM N° 1
TP1

MONTHLY REPORT N°18

TP1-A-205-9 = 20 JULY 1975

CONTRACTOR'S MONTHLY REPORT N°18

TO 20TH JULY, 1975

LIST OF CONTENTS

SECTION I - DESIGN PROGRESS REPORT
Temporary Works & Construction Facilities

SECTION II - SITE PROGRESS REPORT
A. General Report
B. Progress Schedule
C. Labour Report
D. Plant Report

SECTION III - PROCUREMENT PROGRESS REPORT
A. Bulk Items
B. Prefabricated and Bought In Items

PHOTOGRAPHS

SECTION IV

SECTION I - DESIGN PROGRESS REPORT

CONTRACTOR'S MONTHLY REPORT NO. 18

TO 20TH JULY, 1975

I DESIGN PROGRESS REPORT

Temporary Works & Construction Facilities

	Section of Work	Percentage C	omplete	Comments
		Engineering	Drafting	
TEME	PORARY WORKS			
Item	ns 1-15 - 100% Complete			
CONS	STRUCTION FACILITIES			·
20.	Sheet Pile Sea Wall	100	100	
21.	Basin Excavation	100	100	·
22.	Basin Well Pointing	100	100	
23.	Tower Crane Erection	100	100	
24.	Slipform Shutters to Caisson Walls	100	100	:
25.	Concrete Placing Booms	100	100	
26.	Causeway to Floating Jetty	100	100	
27.	Floating Jetty	.100	100	
28.	Offshore Moorings	100	100	
29.	Sea Wall Removal & Dredging	100	100	
30.	Tow Out and Moor	100	100	
31.	Connect Services after Tow Out	100	100	
32.	Slipform Shutters to Columns	100	100	•
33.	Construction Hoists to Columns	95	95	
34.	Dismantle Tower Cranes	90	90	
35.	Clear Platform for Tow	0	0	
36.	Connect Tugs and Slip Moorings	0	0	
	•			·
		ŀ		

SECTION II - SITE PROGRESS REPORT

CONTRACTOR'S MONTHLY PROGRESS REPORT NO. 18

TO 20TH JULY, 1975

II SITE PROGRESS REPORT

(A) GENERAL REPORT

1. General Comment

Satisfactory progress has been made on thickening up the base slab, placing of concrete now being 77% complete. Work has also progressed on construction of the roofs to the caisson cells with 2 No. roofs concreted and fixing of reinforcement completed to two more. Slipforming of the towers which commenced on 9th July, is also proceeding satisfactorily.

2. Photographs

An aerial photograph of the platform from the South-West, taken on the 16th July, is included at the end of the Report. It shows the progress made on construction of the caisson roofs and towers.

3. Weather

The weather during the past month has been mainly dry with warm sunny days and light to moderate winds. There were some cloudy days with showers during the second week in July, but work on the platform was not greatly affected.

4. <u>Labour</u>

Details of the effective Labour strength during the month are given in Part (C) of this Section.

Industrial relations during the period have been satisfactory.

5. Plant & Equipment

Details of the principle items of Plant being used on construction of the platform and its associated works are included in Part (D) of this Section.

6. Platform

Thickening up of the base slab, which is being done in three layers, has continued. The full thickening has been completed in 8 No. cells and the 1st and 2nd layers completed in the remaining 17 No. cells.

Work has also progressed on construction of the roofs to the caisson cells. A total of 12 No. soffit shutter units are now in position, the last two having been lifted up by the 400 ton barge crane on 24th June. Two of the roofs have been concreted and reinforcement fixed in two more.

II SITE PROGRESS REPORT (Cont'd)

(A) GENERAL REPORT

6. <u>Platform</u> (Cont'd)

Immersion Vent Pipework has been installed in the two completed roof units and the remainder of the pipework has been pre-fabricated, ready to be installed.

Slipforming of tower C2 from -64.40 level started at 16.00 hours on 9th July, and by mid-night on 20th, concreting had been completed up to -43.90 level.

Slipforming of tower C1, also from -64.40 level, started at mid-night on 10th July, and by mid-night on 20th, had been completed up to -46.20.

The objective of the present operation is to construct Tower C1 to -43.60 level and Tower C2 to -37.70.

Satisfactory progress is being maintained.

7. <u>Materials</u>

Delivery of bulk materials and built-in items has continued satisfactorily.

8. Programme

Progress is being monitored against the detailed programme issued on 6th June, 1975.

CONTRACTOR'S MONTHLY REPORT NO. 18

TO 20TH JULY, 1975

II SITE PROGRESS REPORT (Cont'd)

- (B) PROGRESS SCHEDULE
- 1. <u>Temporary Works & Construction Facilities</u>

	Section of Work	Percentage	Complete	Progress	Comments
		Programmed	Actual	for Month (Percent -age)	
TEMP	PORARY WORKS				
1.	Office Accommodation (a) McAlpine (b) Sea Tank (c) Shell	100 100 100	100 100 100	- -	
2.	Camp Accommodation (a) Phases I & II (b) Phase III	100 100	100 100	<u>-</u>	
3.	(a) Canteen (b) New Main Site Canteen (c) Extension to Camp	100 100	100 100	- -	
A	Canteen Site Water Supply	100 100	100 100	_	
4. 5.	Electricity Supply to Site	100	90	_	Main incoming supply to be upgraded from 11,000 volts to 33,000 volts
. 6.	Telephones		96	-	48 No. lines are in use on the Site. The G.P.O. are taking steps to make 50 lines available
7.	Site Foul Drainage	100	100	_	
8.	Wharf	100	100	_	
9.	Auxiliary Concrete Batcher	100	100	-	
10.	Main Concrete Batcher	100	100		<u> </u>
11.	Concrete Mix Approval	100	100	_	

- II SITE PROGRESS REPORT (Cont'd)
- (B) PROGRESS SCHEDULE
- 1. Temporary Works & Construction Facilities

Section of Work	Percentage Programmed	Complete Actual	Progress for Month (Percent -age)	Comments
TEMPORARY WORKS (Cont'd)			·	
12. Reinforcement Yard	100	100		
13. Joiners Shop	100	100	-	
14. Fitters Shop	100	100	-	
15. Prestressing Store	100	100	-	

CONTRACTOR'S MONTHLY REPORT NO. 18

TO 20TH JULY, 1975

II SITE PROGRESS REPORT (Cont'd)

(B) PROGRESS_SCHEDULE

1. Temporary Works & Construction Facilities (Cont'd)

	Section of Work	Percentage	Complete	Progress	Comments
		Programmed	Actual	for Month (Percent -age)	
CONS	TRUCTION FACILITIES				
20.	Sheet Pile Sea Wall	100	100	_	
21.	Basin Excavation	100	100	-	
22.	Basin Well Pointing	100	100	.	
23.	Tower Crane Erection	100	100	-	
24.	Slipform Shutters to Caisson Walls	100	100	-	
25.	Concrete Placing Booms	100	100		
26.	Prepare Floating Jetty	100	100	-	. •
27.	Prepare Offshore Moorings	100	100	_	
28.	Sea Wall Removal & Dredging	100	100	-	
29.	Tow Out and Moor	100	100	<u>-</u>	
30.	Connect Services after Tow Out	100	100	_	
31.	Slipform Shutters to Columns	100	100	100	
32.	Construction Hoists to Columns	-	-	-	· .
33.	Dismantle Tower Cranes	-	-		
34.	Clear Platform for Tow		_	- .	
35.	Connect Tugs & Slip Moorings	_	-	-	

CONTRACTOR'S MONTHLY REPORT NO. 18

TO 20TH JULY, 1975

II SITE PROGRESS REPORT (Cont'd)

- (B) PROGRESS SCHEDULE
- 2. Permanent Structure

	Section of Work	Percentage	Complete	Progress	Comments
		Programmed	Actual	for Month (Percent -age)	
1.	Precast Skirt Sections (a) Make (b) Place	100 100	100 100	-	
2.	Caisson Base Slab 0.50m	100	100	_	
3.	Prestress Base Slab	100	100	_	
4.	Vent Pipework	_	100		
5•	Grouting Pipework	-	53	16	
6.	Piezometer Pipework		56	16	
7.	J-Tubes		* 95	_	*95% of McA. work complete. Risers in columns by Messrs. Brown & Root
8.	Sea Bed Riser Tunnels	-	100	- ·	,
9•	Immersion Pipework (In bottom of Caisson)	_	28	17	U.I.E.
10.	Immersion Vent Pipe- work (In Caisson Roof)	_	7	7	
11.	Caisson Dwarf Walls	100	100	-	·
12.	Caisson Walls in Basin	100	100	· -	
13.	Complete Fillet in Basin	100	100	-	
14.	Caisson Walls at Moorings	100	100		
15.	Complete Base Slab	93	77	44	
16.	Caisson Ballast Concrete	-	_	-	
17.	Construct Columns (2 No.)	32	27	27	
18.	Prestress & Grout Columns	_	-	-	
19.	Caisson Roofs	19	14	14	
20.	Immersion Module & Cabling	25	25	-	(U.I.E. Module (lifted in 25th (May, 1975.

CONTRACTOR'S MONTHLY REPORT NO. 18

TO 20TH JULY, 1975

II SITE PROGRESS REPORT

(C) LABOUR REPORT

McAlpine Labour

	Elf	Ardyne Point
Steelfixers	57	33
(including S/Fixer Labourers) Joiners (including Joiner's Labourers)	30	39
General Labourers Other Trades	103 _53	95 290
	243	457

NOTES :

- 1. Elf numbers are averages of men employed on the construction of the Elf Platform.
- 2. Ardyne Point numbers are averages of men engaged upon completing, running and maintaining the Site facilities for the benefit of all Platforms under construction at Ardyne Point.

Sub-Contractor's Labour on Site at the 20th of the Month

Kockum	14
Tyers Welding	2
Sterling Construction	16
Terrapin	15
H.G.S. Limited	59
Colebrand	· 4
Kilpatrick	7
Beaver Cleaners	49
Foremost	31
Findlay	5
	202

CONTRACTOR'S MONTHLY REPORT NO. 18

TO 20TH JULY, 1975

II SITE PROGRESS REPORT

(D) PLANT REPORT

Plant Return for major items of equipment in effective use.

Crawler Cranes/Excavators	2 No. NCK 1405 2 No. NCK 605 1 No. NCK Pennine 3 No. NCK Andes 2 No. Priestman Lion 3A
Back Actor Excavators	1 No. $\frac{5}{6}$ cy. Hydraulic Excavator
Crawler Tractor/Dozers	2 No.
Wheeled Tractors	3 No.
Wheeled Shovel/Excavators/Loaders	4 No.
Dumptrucks	5 No.
25 Ton Mobile Crane	2 No.
7 Ton Mobile Crane	1 No.
Truckcretes	6 No.
Dumpers	7 No.
Concrete Batcher	1 No. Winget 2x2cy. (Batcher No. 1) 1 No. Winget 2x1cy. (Batcher No. 2)
Tower Cranes	1 No. Record 646E (Reinf. Yard) 4 No. Record 764CDM (Elf Platform)

Also, Generators, Welding Sets, Lighting Sets, Concrete Vibrators, Mobile Concrete Mixers, Pumps, Transport Vehicles, Air Compressors, Piling Hammers and Extractors, Fuel and Water Bowsers, Chainsaws, Saw Benches, Boilers, Transformers, Battery Charger, Grabs, Rollers, Reinforcement Cutting and Bending Machines, Storage Tanks, Aggregate Screening Plant, Mobile Toilets, Boats, Aggregate Hoppers, Coaches, Pontoons, Cement Silos, Concrete Pumps, Concrete Placing Booms, Cement Tankers, Road Cleaner Wagon.

SECTION	III	-	PROCUREMENT	PROGRESS	REPORT

•

CONTRACTOR'S MONTHLY REPORT NO. 18

TO 20TH JULY, 1975

III PROCUREMENT PROGRESS REPORT

(A) BULK ITEMS

MATERIAL	ORDER	TOTAL QUANTII	PIES DELIVERED	QUANTITY.	COMMENTS
·	PLACED	SCHEDULED TO MEET CON- STRUCTION PROGRAMME	ACTUAL	DELIVERED FOR MONTH	
Concrete Aggregate	15/1/74	50000 tonnes	67520 tonnes	2150 tonnes	
Concrete Sand	15/1/74	31250 tonnes	42050 tonnes	1070 tonnes	
Cement	7/1/74	17900 tonnes	18370 tonnes	2810 tonnes	See Note 1
Reinforcement		5310 tonnes	5483 tonnes	NIT ·	Delivery Complete
				:	

NOTE:

1. Cement called forward to suit consumption and storage space.
450 tonnes were in stock at the end of the month. (This is
the amount currently allocated to the Elf Platform Contract
out of a total Site stock of 1,500 tonnes)

CONTRACTOR'S MONTHLY PROGRESS REPORT NO. 18

TO 20TH JULY, 1975

III PROCUREMENT PROGRESS REPORT (Cont'd)

(B) FABRICATED & BOUGHT-IN ITEMS

NOTE: Items listed in previous Reports as having been received are not listed below.

Item	Order Placed	Fabrication	Delivery Required	Delivery Made	Comments
Caisson Wall Gusse	ts_				
Threaded Couplers	3016/NE/227 (20/3/75)	C.C.L. Systems Ltd.	20/4/75	15/5/75 & 26/6/75	Delivery Complete
Threaded Couplers	3016/NE/294 (20/6/75)	F. & E. Metals Glasgow	27/6/75	1/7/75	Delivery Complete
Caisson Roofs					
Sockets Type 17	3016/NE/262 (7/5/75)	Avingrade Eng. Ltd.	19/5/75	16/6/75, 20/6/75 & 26/6/75	Delivery Complete
Columns		:			
Sockets Type 7	3016/NE/279 (6/6/75)	Watford Welding Co.	15/7/75	32 No. delivered 4/7/75	100 No. outstand-
Plates Type 18	3016/NE/281 (4/6/75)	F. & E. Metals Glasgow	15/7/75	20/6/75 & 24/6/75	Delivery Complete
2" dia. Whit- worth Studs	3016/NE/300 (27/6/75)	Wm. Galloway Ltd.	15/7/75		
Plates Type 37	3016/NE/292 (17/6/75)	Almond Eng. Ltd.	24/6/75	1/7/75	Delivery Complete
Flanged Pipes c/w Plates, Bolts & Nuts	3016/NE/298 (20/6/75)	F. & E. Metals Glasgow	1/7/75	7/7/75	Delivery Complete
Steel Plates	Regn.C60/65 (16/7/75)	·	1/8/75		
					•

(B) FABRICATED & BOUGHT-III ITEMS

Item	Order Placed	Fabrication	Delivery Required	Delivery Made	Comments
Ring Beams in Colum	ins I				
Threaded Couplers	Regn.C60/50 (23/6/75)	C.C.L. Systems Ltd.	31/7/75		
Sockets Types 32 & 33	3016/NE/309 (9/7/75)	Almond Eng.	7/8/75	·	

SECTION IV - PHOTOGRAPHS



75/508/18 SLIPFORMING OF COLUMNS ON ELF PLATFORM 16.7.75