



sea tank co

SIR ROBERT MC ALPINE & SONS, LTD.

B7 30/8

File TP1 Contract E14

ELF NORGE A/S

FRIGG FIELD

TREATMENT PLATFORM N° 1

TP1

MONTHLY REPORT

N° 17

TP1-A-205-9

SCF 011

20 JUNE 1975



ELF-NORGE FRIGG TREATMENT PLATFORM N°1

CONTRACTOR'S MONTHLY REPORT N°17

TO 20TH JUNE, 1975

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SECTION I - DESIGN PROGRESS REPORT

ELF-NORGE FRIGG TREATMENT PLATFORM NO. 1

CONTRACTOR'S MONTHLY REPORT NO. 17

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I DESIGN PROGRESS REPORT

Temporary Works & Construction Facilities

Section of Work	Percentage Complete		Comments
	Engineering	Drafting	
<u>TEMPORARY WORKS</u>			
Items 1-15 - 100% Complete			
<u>CONSTRUCTION FACILITIES</u>			
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	

SECTION II - SITE PROGRESS REPORT

TO 20TH JUNE, 1975

II SITE PROGRESS REPORT

(A) GENERAL REPORT

1. General Comment

Construction of the platform has continued satisfactorily, the main items of work being thickening up of the base slab and construction of the caisson cell roofs.

Preparations are also well advanced for work to proceed on construction of the 2 No. towers.

2. Photographs

An aerial photograph of the platform, taken on 20th June, is included at the end of the Report.

Comparison of this photograph with photograph No. 75/373/7 issued with our May Report indicates the progress made on construction of the caisson roof during the past month.

3. Weather

Except for a period of showery weather during the third week in June, the weather has been mainly dry and warm with light to moderate winds.

4. Labour

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

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. Temporary Works

(a) Camp

Phase III extension to the Camp is now complete. Dormitory Block I was made available for use on 4th June, Block J on 9th June and Blocks K & L on 11th June.

(b) Caisson Cell Roof Shutter Units

Fabrication of the 12 No. units required is now complete.

Cont'd/....

II SITE PROGRESS REPORT (Cont'd)

(A) GENERAL REPORT

7. Platform

During the month work has progressed on thickening up the base slab. This is being done in three layers.

By 20th June, the first layer had been placed in 16 No. cells, the second layer in 2 No. cells, and the third layer in one cell.

This is in addition to Tower C1 and C2 base slabs thickening of which was completed in April.

10 No. soffit shutter units have been lifted into position on the caisson cells and 4 No. of these have been aligned and cleared for placing of reinforcement. It is intended that the two remaining roof shutter units will be lifted into position on 24th June.

Fixing of reinforcement to 2 No. of the cell roofs is substantially complete and reinforcement to a further 2 No. started.

Prefabrication of the slip form shutters, which will be used to construct the towers is now substantially complete. These have been assembled on land and will be lifted into position by the 400 ton barge crane, the first, to tower C1 on 21st June, and the second, to tower C2 on 25th June.

8. Materials

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

9. Programme

A further detailed programme covering work to be carried out on the platform during the period June - September, 1975, was issued on 6th June.

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II SITE PROGRESS REPORT (Cont'd)

(B) PROGRESS SCHEDULE

1. Temporary Works & Construction Facilities

Section of Work	Percentage Complete		Progress for Month (Percent -age)	Comments
	Programmed	Actual		
<u>TEMPORARY WORKS</u>				
1. Office Accommodation				
(a) McAlpine	100	100	-	
(b) Sea Tank	100	100	-	
(c) Shell	100	100	-	
2. Camp Accommodation				
(a) Phases I & II	100	100	-	
(b) Phase III	100	100	5	
3. (a) Canteen	100	100	-	
(b) New Main Site Canteen	100	100	-	
(c) Extension to Camp Canteen	100	100	-	
4. Site Water Supply	100	100	-	
5. Electricity Supply to Site	100	90	-	Main incoming supply to be upgraded from 11,000 volts to 33,000 volts
6. Telephones	-	96	18	48 No. lines are now 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	-	
11. Concrete Mix Approval	100	100	-	

Cont'd/....

II SITE PROGRESS REPORT (Cont'd)

(B) PROGRESS SCHEDULE

1. Temporary Works & Construction Facilities

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

ELF-NORGE FRIGG TREATMENT PLATFORM NO. 1

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II SITE PROGRESS REPORT (Cont'd)

(B) PROGRESS SCHEDULE

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

Section of Work	Percentage Complete		Progress for Month (Percent -age)	Comments
	Programmed	Actual		
<u>CONSTRUCTION FACILITIES</u>				
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	-	
30. Connect Services after Tow Out	100	100	-	
31. Slipform Shutters to Columns	-	-	-	
32. Construction Hoists to Columns	-	-	-	
33. Dismantle Tower Cranes	-	-	-	
34. Clear Platform for Tow	-	-	-	
35. Connect Tugs & Slip Moorings	-	-	-	

TO 20TH JUNE, 1975

II SITE PROGRESS REPORT (Cont'd)

(B) PROGRESS SCHEDULE

2. Permanent Structure

Section of Work	Percentage Complete		Progress for Month (Percent -age)	Comments
	Programmed	Actual		
1. Precast Skirt Sections				
(a) Make	100	100	-	
(b) Place	100	100	-	
2. Caisson Base Slab 0.50m	100	100	-	
3. Prestress Base Slab	100	100	-	
4. Vent Pipework	-	100	-	
5. Grouting Pipework	-	37	-	
6. Piezometer Pipework	-	40	-	
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	-	11	-	U.I.E.
10. Caisson Dwarf Walls	100	100	-	
11. Caisson Walls in Basin	100	100	-	
12. Complete Fillet in Basin	100	100	-	
13. Caisson Walls at Moorings	100	100	-	
14. Complete Base Slab	35	33	25	
15. Caisson Ballast Concrete	-	-	-	
16. Construct Columns (2 No.)	-	-	-	
17. Prestress & Grout Columns	-	-	-	
18. Caisson Roofs	-	-	-	
19. Immersion Module & Cabling	-	-	-	

TO 20TH JUNE, 1975

II SITE PROGRESS REPORT

(C) LABOUR REPORT

McAlpine Labour

	<u>Elf</u>	<u>Ardyne Point</u>
Steelfixers	45	30
(including S/Fixer Labourers)		
Joiners	41	38
(including Joiner's Labourers)		
General Labourers	110	108
Other Trades	<u>43</u>	<u>318</u>
	<u>239</u>	<u>494</u>

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	5
Tyers Welding	2
Sterling Construction	19
Terrapin	16
H.G.S. Limited	65
Colebrand	10
Kilpatrick	14
Beaver Cleaners	26
Foremost	21
Risdon Beazley Marine	<u>6</u>
	<u>184</u>

TO 20TH JUNE, 1975

II SITE PROGRESS REPORT

(D) PLANT REPORT

Plant Return for major items of equipment in effective use.

<u>Crawler Cranes/Excavators</u>	2 No. NCK 1405
	2 No. NCK 605
	1 No. NCK Pennine
	2 No. NCK Andes
	1 No. NCK Rapier 305
	2 No. Priestman Lion 3A
	1 No. 400 Ton Barge Crane
<u>Back Actor Excavators</u>	1 No. $\frac{5}{8}$ cy. Hydraulic Excavator
<u>Crawler Tractor/Dozers</u>	1 No.
<u>Tracked Shovel Loaders</u>	1 No.
<u>Wheeled Tractors</u>	5 No.
<u>Wheeled Shovel/Excavators/Loaders</u>	5 No.
<u>Dumptrucks</u>	5 No.
<u>25 Ton Mobile Crane</u>	1 No.
<u>7 Ton Mobile Crane</u>	1 No.
<u>Truckcretes</u>	6 No.
<u>Dumpers</u>	5 No.
<u>Concrete Batcher</u>	1 No. Winget 2x2cy. (Batcher No. 1)
	1 No. Winget 2x1cy. (Batcher No. 2)
<u>Tower Cranes</u>	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

ELF-NORGE FRIGG TREATMENT PLATFORM NO. 1

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III PROCUREMENT PROGRESS REPORT

(A) BULK ITEMS

MATERIAL	ORDER PLACED	<u>TOTAL QUANTITIES DELIVERED</u>		QUANTITY DELIVERED FOR MONTH	COMMENTS
		SCHEDULED TO MEET CON- STRUCTION PROGRAMME	ACTUAL		
Concrete Aggregate	15/1/74	43425 tonnes	65370 tonnes	1370 tonnes	See Note 1 Delivery Complete
Concrete Sand	15/1/74	27140 tonnes	40980 tonnes	300 tonnes	
Cement	7/1/74	15560 tonnes	15560 tonnes	1241 tonnes	
Reinforcement		5310 tonnes	5483 tonnes	NIL	

NOTE :

1. Cement called forward to suit consumption and storage space.

ELF-NORGE FRIGG TREATMENT PLATFORM NO. 1
CONTRACTOR'S MONTHLY PROGRESS REPORT NO. 17

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III PROCUREMENT PROGRESS REPORT (Cont'd)

(B) FABRICATED & BUILT-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
<u>Caisson Wall Gussets</u>					
Threaded Couplers	3016/NE/227 (20/3/75)	C.C.L. Systems Ltd.	20/4/75	15/5/75	417 delivered 133 out- standing -to be delivered 26/6/75
Threaded Couplers	Reqn.C60/45 (13/6/75)	F. & E. Metals Ltd.	20/6/75		
<u>Caisson Roofs</u>					
Plates for Instru- mentation	3016/NE/259 (7/5/75)	F. & E. Metals Ltd. Glasgow	26/5/75	10/6/75 & 17/6/75	Delivery Complete
Sockets Type 17	3016/NE/262 (7/5/75)	Avingrade Eng. Ltd.	19/5/75	16/6/75 & 20/6/75	2 No. out- standing
2" dia. M.S. Screwed Pipe (for Vent Pipework)	3016/NE/256 (1/5/75)	Thos. Graham Glasgow	20/5/75	7/5/75 & 27/5/75	Delivery Complete
Types 24 & 30 M.S. Fixing Sockets	3016/NE/264 (7/5/75)	G. & N. Reid Bros.	26/5/75	3/6/75	Delivery Complete
Towing Point Protection Plates	3016/NE/263 (7/5/75)	F. & E. Metals Ltd.	9/6/75	19/6/75	Delivery Complete
Plates	3016/NE/271 (20/5/75)	Hutsons Ltd. Glasgow	8/6/75	5/6/75	Delivery Complete
M.S. Vent Pipe Protection Sleeves	Reqn.C60/27 (9/5/75)		24/6/75		
<u>Columns</u>					
2" dia. Whitworth Studs	3016/NE/276 (2/6/75)	F. & E. Metals Glasgow	6/6/75	11/6/75	Delivery Complete

Cont'd/....

III

PROCUREMENT PROGRESS REPORT

(Cont'd)

(B)

FABRICATED & BUILT-IN ITEMS

Item	Order Placed	Fabrication	Delivery Required	Delivery Made	Comments
<u>Columns</u> (Cont'd)					
Sockets Type 7	3016/NE/279 (6/6/75)	Watford Welding Co.	15/7/75		
Plates Type 18	3016/NE/281 (4/6/75)	F. & E. Metals Glasgow	15/7/75		
2" dia. Whitworth Studs	Reqn.C60/37 (28/5/75)		15/7/75		
Plates Type 37	3016/NE/292 (17/6/75)	Almond Eng. Ltd.	24/6/75		
Flanged Pipes c/w Plates, Bolts & Nuts	Reqn.C60/44 (7/6/75)		1/7/75		

SECTION IV - PHOTOGRAPHS



75/453/24

ELF PLATFORM FROM SOUTH

20. 6. 75.