SURVEY REPORT FOR NORSKE MURPHY OIL COMPANY <u>REF: 2/3-1 & 2/777</u> 2/3-2 9TH - 14TH JUNE, 1970

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## REF: 2/3-1 & 2/777

## SURVEY REPORT

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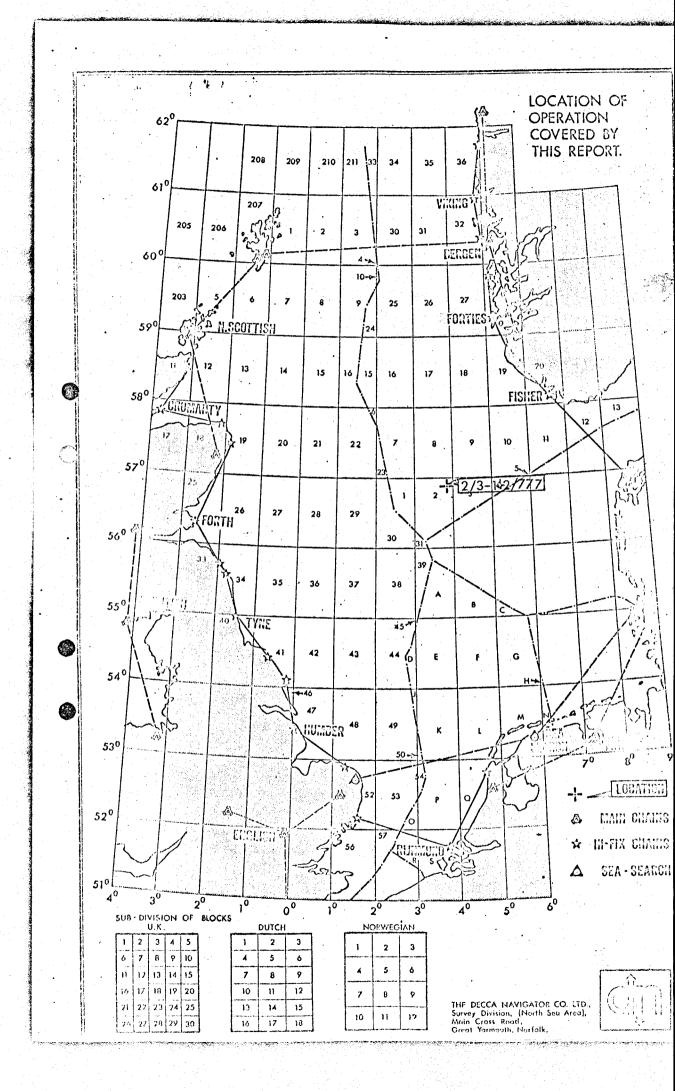
৯৯৬৬ জনসমূহের প্রদান প্রদান প্রদান সময়ের কেন্দ্রার্থনা প্রাপনি বিশ্বিদ্যালয় হার্থনা

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## ABSTRACT

M.V.HIGHLAND BLAZER (Capt.W.L.Davies) carried out a wellhead search in Block 2/3 for wellheads No.1 and No.2 between the 9th June and 14th June 1970.

The wellheads were located with an Atlas Echo Sounder AN 6014 and marker buoys dropped close to each wellhead.

The survey vessel then stood by the diving vessel JACOMINA which located the 2/3-2 wellhead before the weather deteriorated.

HIGHLAND BLAZER was released to Great Yarmouth, arriving at 1200 on the 14th June, 1970.

## 1. REQUIREMENTS

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- (1) To locate two wellheads in Block 2/3
- (2) To mark each wellhead once located with a marker buoy.
- (3) To assist JACOMINA as required. Letter reference RAG/NC of 7th May, 1970 refers.

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## 2. LOCATION DATA

#### Wellhead 2/3-1

The position of this wellhead as computed from the final position of OCEAN TRAVELLER (see Report 2/3-1 & 2/651) was as follows:-

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Lat: 56° 53' 09.457" North Long: 03° 51' 38.082" East

#### Wellhead 2/3-2

The position of this wellhead as computed from the final position of OCEAN TRAVELLER (see Report 2/3-1 & 2/651) was:-

Lat: 56° 54' 53.406" North Long: 03° 49' 02.284" East

#### 3. OPERATION

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At 1100 on 9th June 1970 the survey vessel m.v. HIGHLAND BLAZER arrived on location in Block 2/3 from a location in Block 27/10. The vessel was steamed through the location co-ordinates. Wellhead 2/3-2 was located using an ATLAS AN6014 Survey Echo Sounder at 1236 on 9th June, 1970 (see Echo Sounder Trace No.1)

This operation was repeated and a marker buoy dropped as the wellhead appeared on the echo trace (see Trace No.2).

This completed HIGHLAND BLAZER then steamed to location 2/3-1.

At 1317 on 9th June HIGHLAND BLAZER steamed through the location co-ordinates and the wellhead was picked up on the echo sounder (see Trace No.3). This operation was repeated and as the wellhead appeared on the echo sounder trace a marker buoy was dropped (see Trace No.4).

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On completion HIGHLAND BLAZER laid a Reference buoy and anchored close by to await the arrival of JACOMINA whose ETA on location was 2100.

At 2000 contact with JACOMINA was established and information received from the diving superintendant indicated that diving would commence at 0800 on 10th June, 1970.

At 0700 on 10th June HIGHLAND BLAZER weighed anchor and at 0720 checked the float positions of both buoys (see Traces 5 & 6).

At 0800 m.v. JACOMINA anchored close to the 2/3-2 location. At 1100 HIGHLAND BLAZER anchored close to the Reference buoy. At 1600 m.v. JACOMINA called HIGHLAND BLAZER and informed her that the 2/3-2 wellhead had been located by the divers.

M.V. HIGHLAND BLAZER remained at anchor until, in deteriorating weather at 1530 on 11th June she was released to Block 25/10.

HIGHLAND BLAZER arrived back on location at 0730 13th June. 1970 and was released at 1030. She steamed to Great Yarmouth, arriving alongside at 1200 14th June, 1970.

#### 4. POSITION FIXING SYSTEM

The Fisher Hi-Fix system was used as primary control during this operation. The lane width at the location is:-

Pattern 1430 metresPattern 2250 metresAngle of cut27°

#### 5. PERSONNEL

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The following personnel were engaged in the survey:-M.F.STREET Surveyor in Charge T.R.SMITH Assistant Surveyor P.K.MATHUR Hi-Fix Engineer.

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	8. 6.70	2350 -	Steaming from Block 27/10 to
	9. 6.70	1100	location 2/3.
	9.6.70	1230	Set up position fixing systems
	9.6.70	1230- 1240	Located wellhead 2/3–2 and dropped marker buoy
	9. 6.70	1300 - 1325	Located wellhead 2/3 –1 and dropped marker buoy
	9. 6.70	1340	Anchored
···· ·	9. 6.70	2100	Diving vessel m.v. JACOMINA arrived
0	10.6.70	0700- 0730	Weighed anchor and checked marker buoys
	10.6.70	0800	M.V. JACOMINA anchored close to location 2/3-2.
0	10.6.70	1100	M.V.HIGHLAND BLAZER at anchor one mile north of Location 2/3–2 standing by JACOMINA before wellheads located by divers.
•	11.6.70 13.6.70	1530 - 0730	Released from location by JACOMINA to work for another client
	13.6.70	0730- 1030	Standby 2/3 location – released to return to Great Yarmouth.
	14.6.70	1200	Arrived Great Yamouth

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# 7. ENCLOSURES

- 1. Summary of Lane Checks
- 2. Echo Sounder Traces

nee R.F. STREET, Surveyor in Charge

SUM	MARY OF	LANE CHECKS	CLIENT NORSKE	MURPHY	REFERENCE 2/3-1 2	7/3-2/777 SERIAL
(		SURVEY CHAIN	SURVEY CHAIN	SURVEY CHAIN	MAIN CHAIN	MAIN CHAIN
OATE and		FISHER HI-FIX		SEASEARCHI	<u> </u>	76
TIME	Pat.1 / Red Pat.11/Green	Pat I / Red Pat II/Green	Red Green	Red Green Purple	Red Green Purple	
1226	SET UP ON WELLHEAD 2/3-2	507 80 584 63		A12 96A33-33	B22.32I44.79F60.28	11/2+24136.14163.79
1240	DROP POSITION			12-98133-36	322.52541.75760 51	
13:3	WELLHEAD	504 31 584-63			822.70141.65-61.20	
1270	2/3-1 DROP POSITION	495-37 599-68 495-36 599-68			B22 · 71 244 · 62 - 61 · 22	
1335	WHAD BUCY DROP POSITION	494.70 599.57			822.60244.30461.00	
\$720	REF Bucy 2/3-2 WERLHENDBUDJ	501.84 534.63				
1615	Снеск 2/3-1. w/н вибу	495.25 59.80				
1620	<i>и и</i>	195.26 559.77				
lion	CHECK W/ + Bus, 2/3-1	49.5.2 \$ 599. FI		AU1. 12 A33.46	B22.69744.62561.20	M12.60136.73761.95
2110	-/3-1					
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## A. C-O ERRORS

Fixed (Computed minus Observed) errors to be applied to the observed readings to adjust them to a value comparable with the theoretical computed readings. These fixed errors are determined normally by inter-chain Decca chain analysis, or, inshore, by establishing the ship's position independently. In areas where no C-O readings have been obtained then a best estimated value of the C-O error is used.

### UNCORRECTED OBSERVED

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Observed readings with no fixed C-O (corrected minus observed) errors applied. Quoted, as read, to two decimal places.

### CORRECTED OBSERVED

Observed readings with C-O errors applied (sign of correction as quoted), and normally used to convert an observed reading into a value from which a geographical position or other Decca chains can be computed.

## D. COMPUTED

Theoretical Decca chain reading derived from a position (normally geographicals) using the basic chain parameters. Always quoted to three decimal places of a lane, although the third decimal place is not normally significant.

## E. ESTIMATED OBSERVED

A computed reading with minus C-O errors applied (opposite signs to those quoted) to provide the best readings that would be observed in the field.

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67 腦洞 1 <sup>10</sup>2 3-2 2 DROP IN - 19 Buoy. Ē đđ Passton of Com يو و دو در در . او ارد و بروی و و . . . . . • • • • • مرتبع المعدرة بالتاني المشورية. المراجع المراجع بالمحمد المعالي المراجع الم 1 المتابية ويتباركوا بتأتين ; coulde could a fail and a could a 

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