

APPENDIX A

BORE AND DRILL LOG RECORD SHEETS

LOCATION OF BOREHOLES

Borehole No.	Co-Ordinates		Reduced Level		Date	
	N(m)	E(m)	Top	Bottom	Start	Finish
Over Water:-						
D1	257365	324804	-7.0	-57.32	30.3.76	8.4.76
D2	257419	324851	-8.0	-50.60	9.3.76	24.3.76
D3	257307	324754	-5.7	-40.14	21.4.76	11.5.76
D4	257780	325160	-8.0	-30.33	2.6.76	8.6.76
D5	257661	325060	-14.0	-43.85	24.5.76	28.5.76
D6	257481	324904	-6.8	-43.23	17.5.76	20.5.76
D7	257389	324825	-8.0	-52.69	10.6.76	15.6.76
D8	257375	324813	-8.0	-51.54	16.6.76	18.6.76
D9	257369	324813	-8.0	-54.28	21.6.76	6.7.76
D10	257293	324744	-2.0	-25.66	8.7.76	27.7.76
D11	257305	324753	-6.0	-29.84	2.8.76	4.8.76

East Abutment:-

E1	257985	325347	+6.99	-8.20	27.7.76	6.8.76
E2	257996	325334	+7.42	-7.18	6.8.76	18.8.76

West Abutment:-

W1	257257	324712	+12.07	+0.00	27.4.76	5.5.76
W2	257246	324702	+17.35	-2.92	18.8.76	31.8.76

West Approach Cutting:-

WA1	257171	324638	+33.80	+16.44	6.5.76	25.5.76
WA2	257086	324564	+29.78	+14.53	26.5.76	8.6.76
WA3	257014	324473	+24.78	+13.51	10.6.76	21.6.76

Boreholes Over Water for Feasibility Studies:-

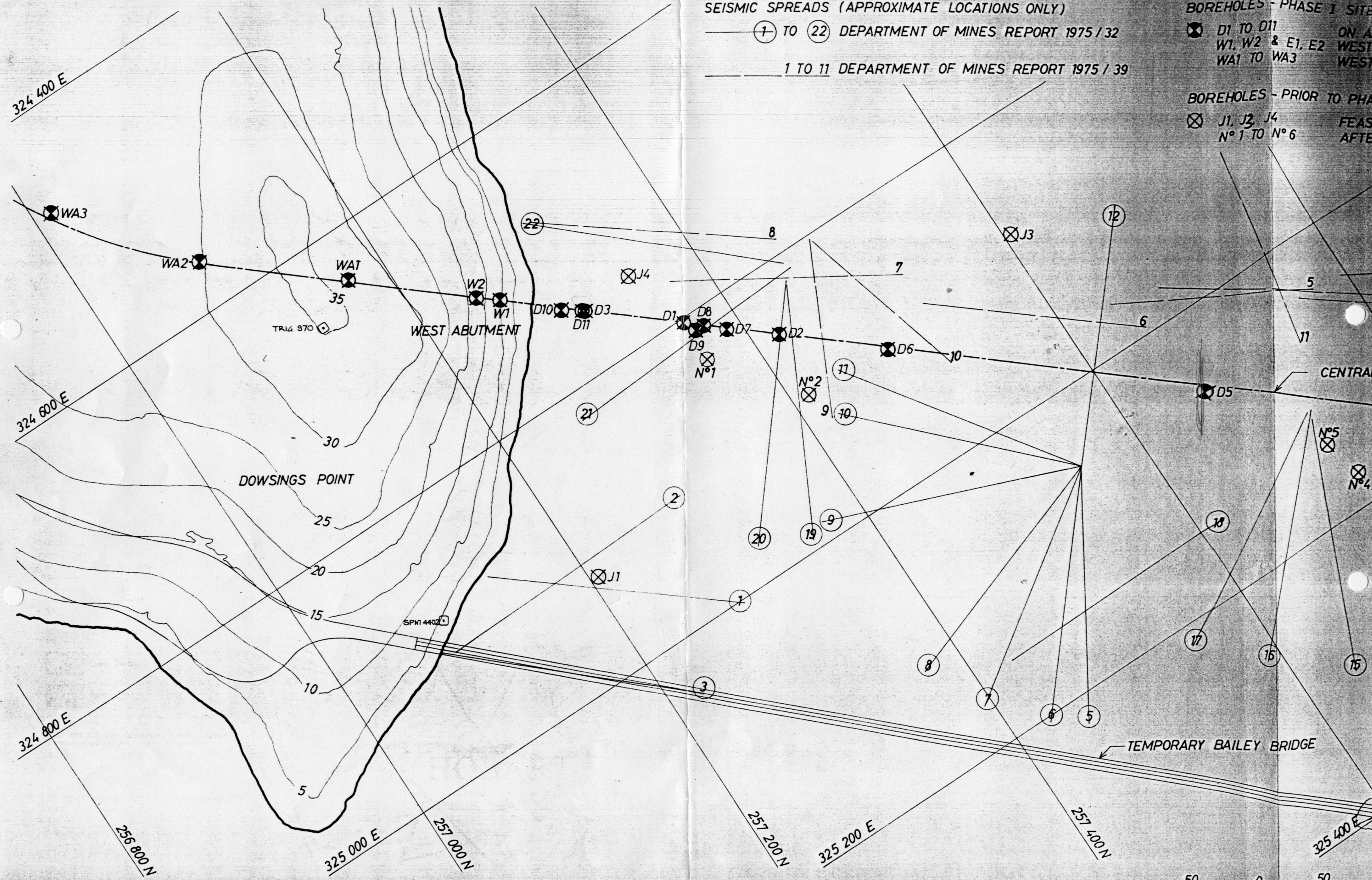
X J1	257206	324925	-7.5	-48.08	May 1975
J3	257605	324882	-8.8	-42.17	Sept. 1975
J4	257349	324750	-6.3	-48.60	Sept. 1975

No. 1 Six Boreholes put down in August to October, 1963,
to approximate locations shown on Drawing No. 2,
No. 6 Results reported by I. B. Jennings, 1964.

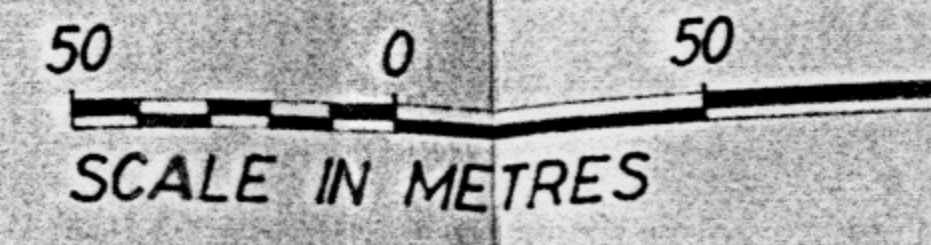
Note: Holes J1, J3 and J4 were previously
No. BH1, BH3, and BH4 respectively.

SEISMIC SPREADS (APPROXIMATE LOCATIONS ONLY)
 — (1) TO (22) DEPARTMENT OF MINES REPORT 1975 / 32
 — 1 TO 11 DEPARTMENT OF MINES REPORT 1975 / 39

BOREHOLES - PHASE 1 SITE
 ⊗ D1 TO D11 ON ALL WEST WEST
 W1, W2 & E1, E2 WEST
 WA1 TO WA3 WEST
 BOREHOLES - PRIOR TO PHASE 1
 ⊗ J1, J2, J4 FEASIBILITY AFTER
 N° 1 TO N° 6



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SEISMIC SPREADS (APPROXIMATE LOCATIONS ONLY)

① TO ②② DEPARTMENT OF MINES REPORT 1975 / 32

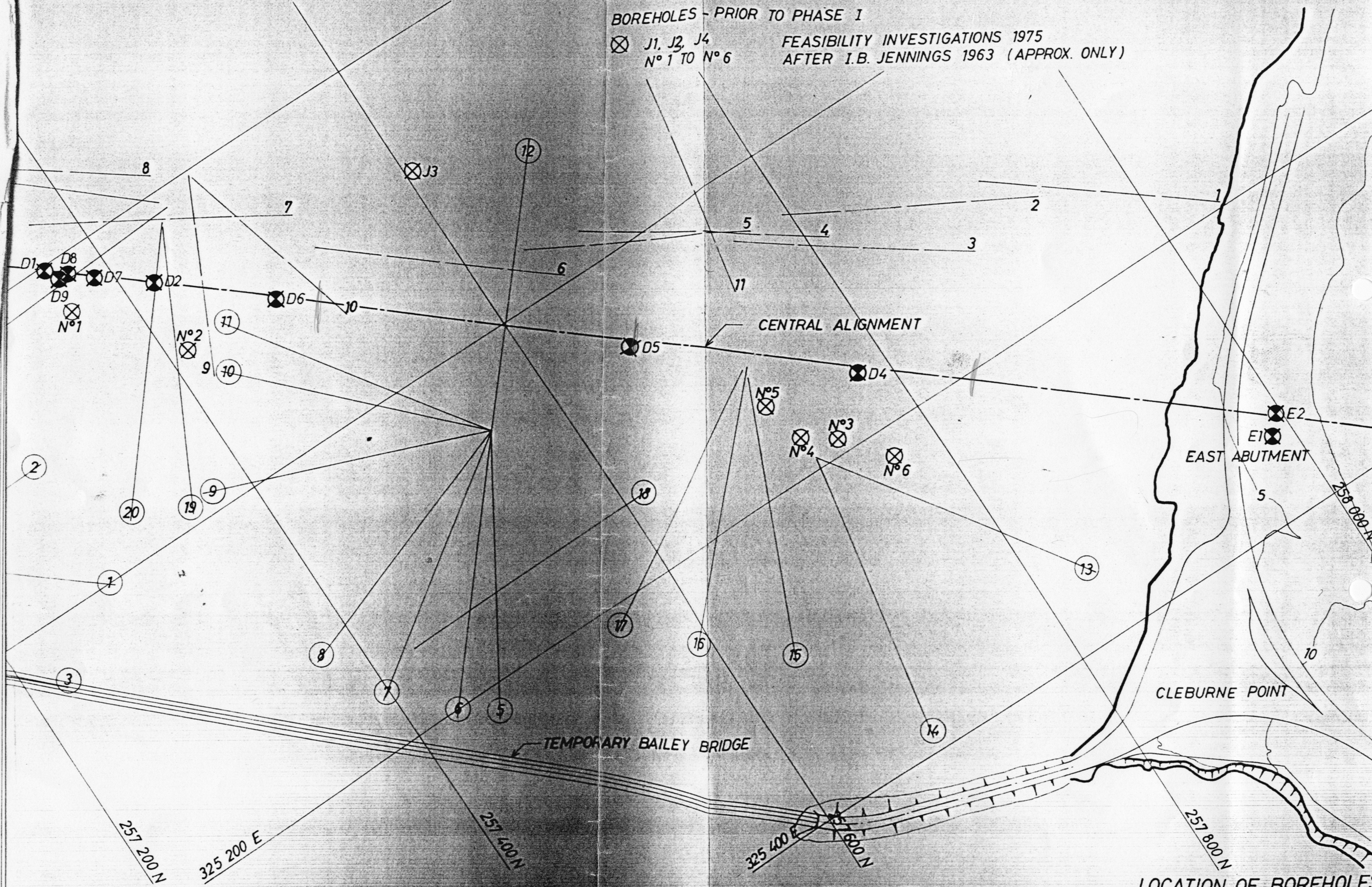
① TO ①① DEPARTMENT OF MINES REPORT 1975 / 39

BOREHOLES - PHASE I SITE INVESTIGATION

⊗ D1 TO D11 ON ALIGNMENT OVER WATER
W1, W2 & E1, E2 WEST / EAST ABUTMENTS
WA1 TO WA3 WEST APPROACH CUTTING

BOREHOLES - PRIOR TO PHASE I

⊗ J1, J2, J4 FEASIBILITY INVESTIGATIONS 1975
N° 1 TO N° 6 AFTER I.B. JENNINGS 1963 (APPROX. ONLY)



LOCATION OF BOREHOLES AND SEISMIC SPREADS
SECOND HOBART BRIDGE

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BORE LOG RECORD

PROJECT SECOND HOBART CROSSING PHASE 1 - SITE INVESTIGATION		BORE No. D5	
Bore co-ordinates: 325060E 257661N E=524930 N=5259150		FILE No. 01.0500	
Surface R.L.: 0.00	Datum: State	Sheet no. 1 of 4	
Angle from horizontal: 90°	Direction: -		
Rig type: Meyhew 1000	Drill size: 6" Casing	Commenced: 24-5-76	Logged: T.S.
Drilling by: Mines Dept.	Water level: River	Completed: 28-5-76	Checked: W.K.

R.L.	Depth	Sample Core	SAMPLE TYPE	Description	Log	Additional Information
	2					
	4					
	6					
	8			WATER		
	10					
	12					
-14.0	14					River Bed
	16		D5/1	Very soft black silty clay		In situ Vane Tests
-18.2	18		D5/2	Fine, black silty sand		sample disturbed
	20					

Units:

S.I.

Symbols:

75 mm ϕ U.D. Sample



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BORE LOG RECORD

PROJECT		SECOND HOBART CROSSING PHASE 1 - SITE INVESTIGATION		BORE No. D5	
Bore co-ordinates:		325060E	257661N	FILE No. 01.0500	
Surface R.L.:	0.00	Datum: State		Sheet no. 2 of 4	
Angle from horizontal:	90°	Direction: -		Commenced: 24.5.76	
Rig type:	Meyhew 1000	Drill size:	6" Casing	Completed:	28.5.76
Drilling by:	Mines Dept.	Water level:	River	Logged:	T.S.
				Checked:	W.K.

R.L.	Depth	Sample	Core	SAMPLE TYPE	Description	Log	Additional Information
	22			SPT N=16	Fine grey - black silty sand		
	24						
-25.10				SPT N=28			
	26				Continued on Drill Log Record Sheet No. 3		
	28						
	30						

Units: S.I.

Symbols:



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DRILL LOG RECORD

PROJECT		SECOND HOBART CROSSING PHASE 1 - SITE INVESTIGATION				BORE No.		D5	
Bore co-ordinates:		325060E 257661N				FILE No.		01.0500	
Surface R.L.:		0.00		Datum:		State		Sheet no. 3 of 4	
Angle from horizontal:		90°		Direction:		-			

Rock type and degree of weathering	Description Colour, Hardness, etc.	Log	Core loss Lift %	Core Lift Depth R.L.	Fracture log	R.Q.D.	Discontinuities		Drilling water loss	Remarks
							Joints, bedding, seams, faults	Description Attitude, smoothness, filling cement, aperture and coating		
										Continued from Bore Log Record Sheet No. 2
										Casing to -27.71
										-25.10
Inferred 26 Mudstone										Tricone used
										-27.71
28 Mudstone HW	grey, soft yellow - grey					0	30			Tricone used
30 MW	Grey. Black lignite layer					0	10-90	bedding indis- tinct joints sub-horizontal		* 28.77-29.49 60min 31.01-32.53 40min 32.53-33.77 60min
Sandstone 32 MW						0	5-50	joints sub-horiz. and 60°		
Mudstone HW	Black to dark grey					0		fragments of rock breaks in all directions		38.00-39.43 7min 39.43-40.98 13min
34 MW						9	50-250	bedding sub-hor- izontal and erratic joints along bedding planes & 30°-45°		
Sandstone 36 MW	light grey, coarse grained with black bands hard					59				
38 SW						84	70-140			
Fr to SW	light grey hard					50	0-30			
40										

Drill type	Meyhew 1000	FRACTURE LOG Breaks in core per foot, or diameter of fragments in feet Equivalent diameter, inches	EXPLANATION * Coring rates	Vertical scale	1 unit = 0.2m
Core barrel type	NMLC Triple Barrel			WEATHERING	Logged
Driller	Mines Dept.	2 CW - Completely weathered HW - Highly weathered MW - Moderately weathered	SW - Slightly weathered F-F1 - Fresh, with weathered joints F2 - Fresh	Drawn	W.K.
Comm'd	24-5-76	Discontinuities at 120° direction of dip is 120° angle of dip is 95°		Date	17-6-76
Comp'd	28-5-76			Checked	



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DRILL LOG RECORD

PROJECT SECOND HOBART CROSSING PHASE 1 - SITE INVESTIGATION		BORE No. D5
Bore co-ordinates: 325060E 257661N		FILE No. 01.0500
Surface R.L.: 0.00	Datum: State	Sheet no. 4 of 4
Angle from horizontal: 90°	Direction: -	

Rock type and degree of weathering	Description Colour, Hardness, etc.	Log	Core loss	Core size Depth R.L.	Fracture log	R.O.D. Spacing	Discontinuities Joints, bedding, seams, faults Description Attitude, smoothness, filling cement, aperture and coating	Drilling water loss	Water level	Remarks
			Lift %							

Sandstone MW	light grey dark bands hard	[Log symbols]	[Core loss symbols]	[Core size symbols]	[Fracture log symbols]	R.O.D. 67	Discontinuities joints and bedding sub-horizontal with some cross-bedding	[Drilling water loss symbols]	[Water level symbols]	* 40.98-42.54 8min
42						86				
Mudstone MW	soft layers	[Log symbols]	[Core loss symbols]	[Core size symbols]	[Fracture log symbols]	R.O.D. 20-25	110			END -43.85
44										

Drift type Meyhew 1000	FRACTURE LOG EXPLANATION *Coring rates 1. [Diagram] 1 [Diagram] 2 [Diagram] 3	WEATHERING 2 CW - Completely weathered SW - Slightly weathered HW - Highly weathered F/SI - Fresh, with laminae stained joints ME - Moderately weathered F - Fresh	Vertical scale 1 unit = 0.2m
Core barrel type NMLC Triple Barrel			Logged W.K.
Driver Mines Dept	Checked by 120/46 Date of log 12/6 Page of 6 x 4 4/4	Drawn W.K.	Date 17.6.76
Comm'd 24.5.76			Checked
Comp'd 28.5.75			