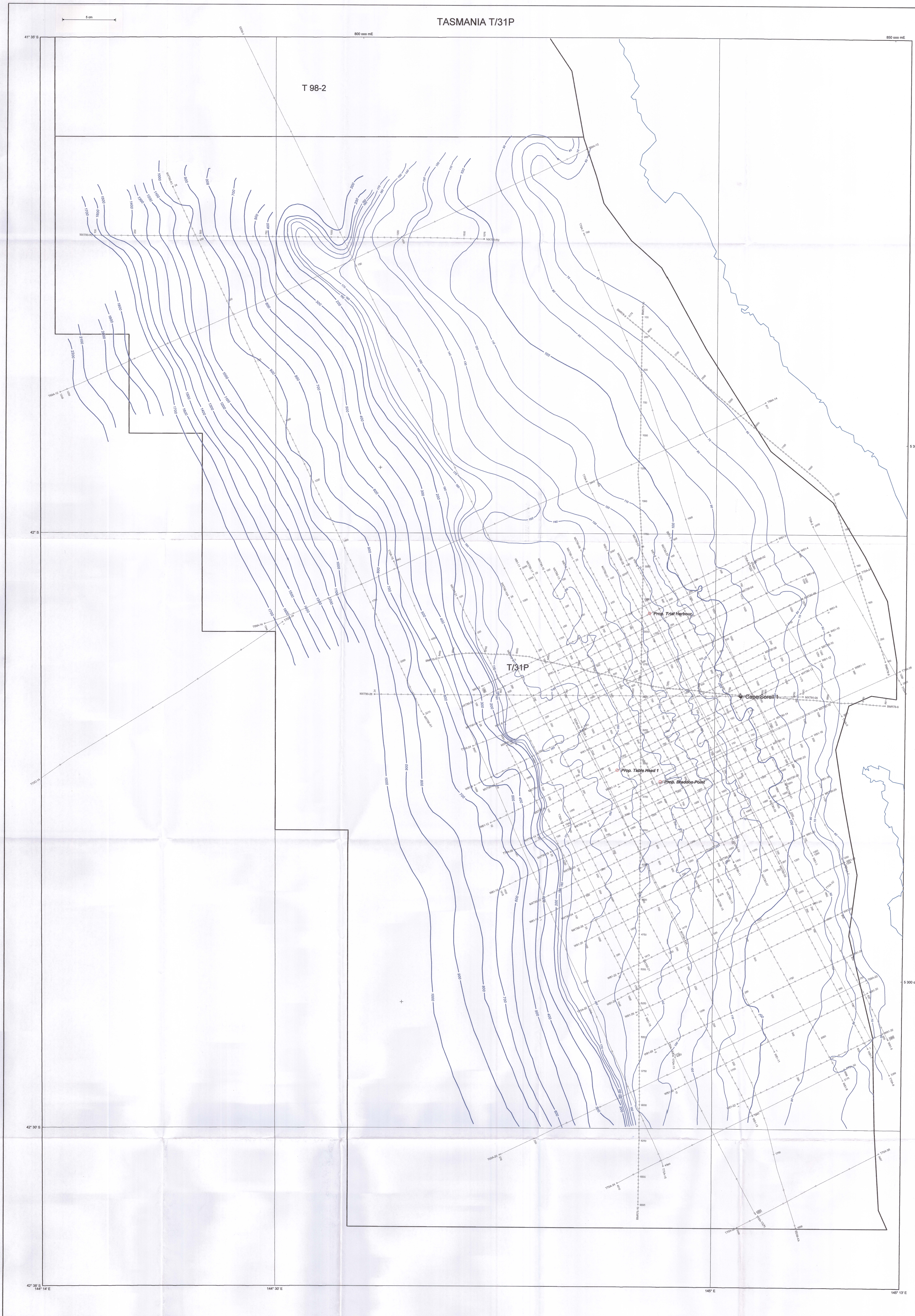
TASMANIA T/31P



1:100000

0 2 4 6 8 10

KILOMETRES

UNIVERSAL TRANSVERSE MERCATOR PROJECTION
WGS 1984 SPHEROID
CENTRAL MERIDIAN 141° E
Mapsheet datum: "Unknown"

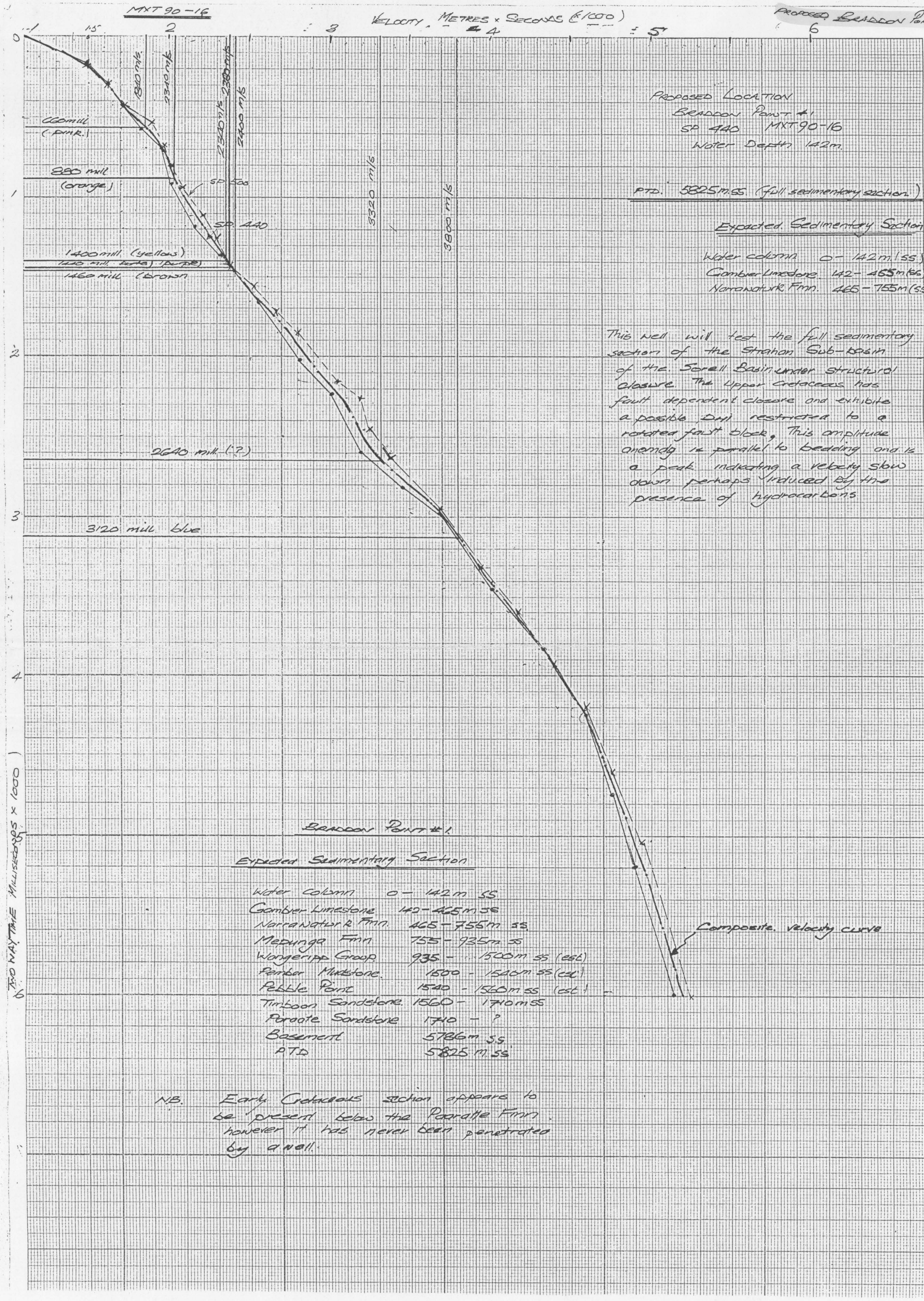
ROMA PETROLEUM NL

TASMANIA T/31P
STRAHAN SUB-BASIN
SORELL BASIN
WATER DEPTH MAP

Author: R.A.Meaney	Mapsheet: T/31P_100k	Date: Sept 2001
Data: OIL ON FILM	File: Water Depth.map	

TPR
OR-480.

PROPOSED BRADDON POINT.



PROPOSED LOCATION
BRADDON POINT #1
SP 440 MXT90-16
Water Depth 142m.

PTD. 5825m.SS. (full sedimentary section.)

Expected Sedimentary Section

Water column 0 – 142m (SS)
Gambier Limestone 142 – 465m (SS)
Narrawaturk Fmn. 465 – 755m (SS)

This well will test the full sedimentary section of the Strahan Sub-basin of the Sorell Basin under structural closure. The Upper Cretaceous has fault dependent closure and exhibits a possible DHI restricted to a rotated fault block. This amplitude anomaly is parallel to bedding and is a peak indicating a velocity slow down perhaps induced by the presence of hydrocarbons

BRADDON POINT #1.

Expected Sedimentary Section

Water Column	0 – 142m SS
Gambier Limestone	142 – 465m SS
Narrawaturk Fmn.	465 – 755m SS
Mepunga Fmn	755 – 935m SS
Wangerrip Group	935 – 1500m SS (est)
Pember Mudstone.	1500 – 1540m SS (est)
Pebble Point	1540 – 1560m SS (est)
Timboon Sandstone.	1560 – 1710m SS
Paaratte Sandstone	1710 – ?
Basement	5786m S.S
PTD	5825 m.SS

NB. Early Cretaceous section appears to be present below the Paaratte Fmn. however it has never been penetrated by a well.

MXT90-05.

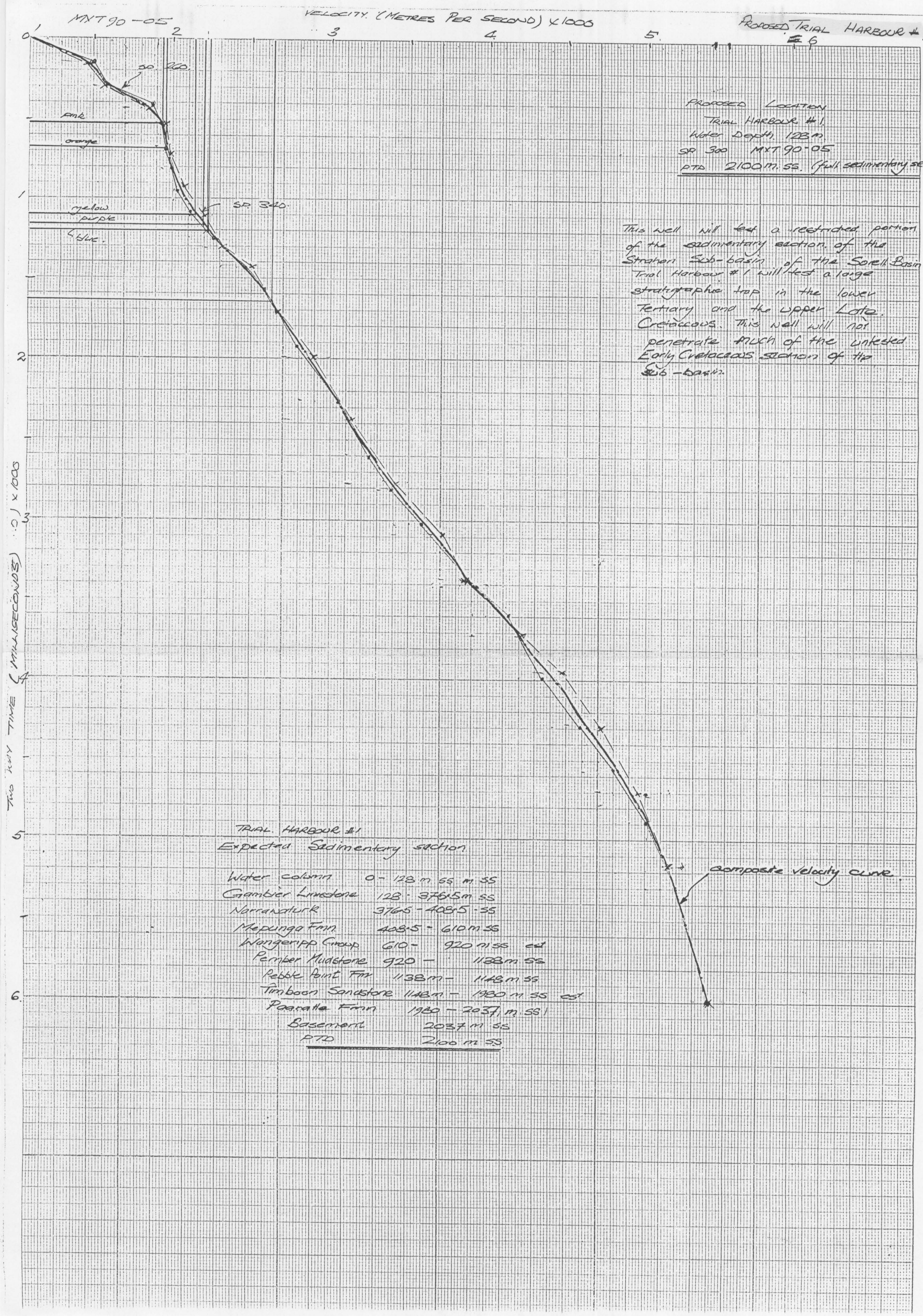
GORMACK GRAPH PAPERS : CHRISTCHURCH N.Z. C102X 40 cm x 28 cm x 1 mm

MXT 90 – 16
(SP 440)

BRADDON POINT # 1

GORMACK GRAPH PAPERS : CHRISTCHURCH N.Z. C102X 40 cm x 28 cm x 1 mm
GORMACK GRAPH PAPERS : CHRISTCHURCH N.Z. C102X 40 cm x 28 cm x 1 mm
PROPOSED BRADDON POINT #1
DOWNTHROWN
UPLIFTED
VELOCITY (m/sec) × 1000
INCREASING VELOCITY
4
3
2
1
(Brown)
(Purple)
(Yellow)
(Orange)
(Pink)
Intra-Cretaceous Seismic Marker
Upper Cretaceous Seismic Marker
INCREASING THICKNESS OF GAMBIER LIMESTONE
SHALLOWING SECTION
No obvious velocity artifact
100
200
250
300
400
SHOT POINTS.
500
600
700
800
9
10

PROPOSED TRIAL HARBOUR #1



PROPOSED LOCATION
TRIAL HARBOUR #1.
Water Depth. 128m.
SP 300 MXT 90-05
PTD 2100m. SS. (full sedimentary sectio

This well will test a restricted portion of the sedimentary section of the Strahan Sub-basin of the Sorell Basin. Trial Harbour #1 will test a large stratigraphic trap in the lower Tertiary and the upper Late Cretaceous. This well will not penetrate much of the untested Early Cretaceous section of the Sub-basin.

TRIAL HARBOUR #1
Expected Sedimentary section

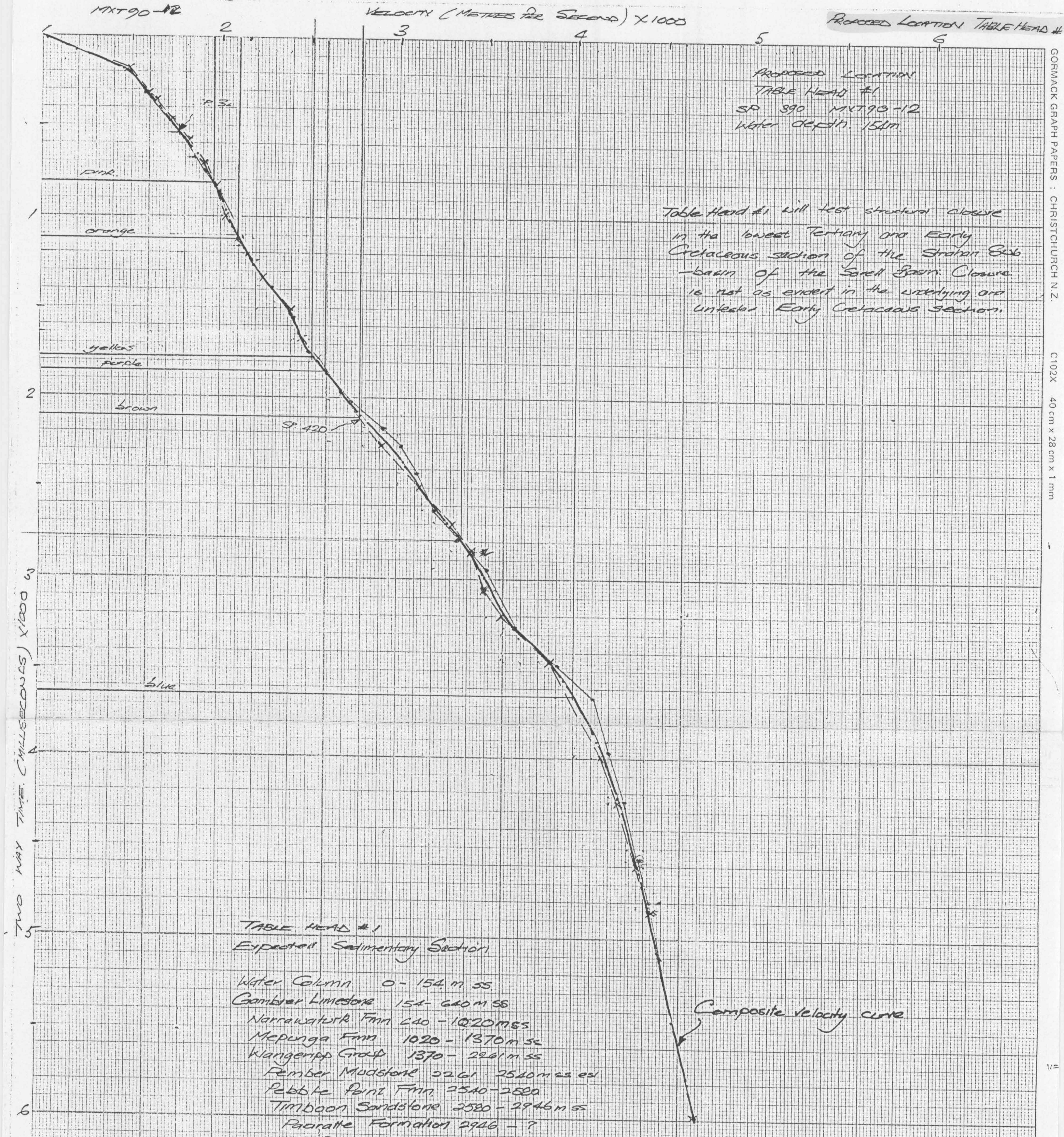
Water column	0 - 128 m SS m SS
Gambier Limestone	128 - 376·5m SS
Narrawaturk	376·5 - 408·5 - SS
Mepunga Fmn.	408·5 - 610 m SS
Wangerripp Group	610 - 920 m SS est
Pember Mudstone	920 - 1138m SS
Pebble Point Fm	1138m - 1148m SS
Timboon Sandstone	1148m - 1980 m SS est
Paaratte Fmn	1980 - 2037 m. SS!
Basement	2037 m SS
PTD	2100 m SS

GORMACK GRAPH PAPER : CHRISTCHURCH N.Z. C102X 40 cm x 28 cm x 1 mm

GORMACK GRAPH PAPERS : CHRISTCHURCH N.Z. C102X 40 cm x 28 cm x 1 mm

MXT90-12. PROPOSED TRIAL HARBOUR #1

PROPOSED TRIAL HARBOUR #1
℄ of channel
℄ Channel
Intra Cretaceous Seismic Marker
Top Cretaceous Seismic Marker.
(brown)
(purple)
(yellow)
N.D.
ND
ND
(orange)
(pink)
SHALLOWER SECTION
GAMBIER LIMESTONE IS RELATIVELY FLAT
SECTION DEEPENING
SHALLOWING SECTION
No apparent velocity artifact over ~~Table Head~~ Prospect TRIAL HARBOUR
VELOCITY (METRES/SECOND) × 1000
4
3
2
1.0
SHOT POINTS × 100.
0
1
2
3
4
5
6
7
8
9
10
11
12
13.



PROPOSED LOCATION TABLE HEAD #1

PROPOSED LOCATION
TABLE HEAD #1
SP 390 MXT90-12
Water depth. 154m.

Table Head #1 will test structural closure in the lowest Tertiary and Early Cretaceous section of the Strahan Sub-basin of the Sorell Basin. Closure is not as evident in the underlying and untested Early Cretaceous section.

TABLE HEAD #1
Expected Sedimentary Section

Water Column 0 - 154 m ss.
Gambier Limestone 154 - 640 m ss
Narrawaturk Fmn 640 - 1020 m ss
Mepunga Fmn 1020 - 1370 m ss
Wangerrip Group 1370 - 2261 m ss
Pember Mudstone 2261 - 2540 m ss est
Pebble Point Fmn 2540 - 2580
Timboon Sandstone 2580 - 2946 m ss
Paaratte Formation 2946 - ?
? ?

Basement	7126 m ss
TD	7200 m ss

The well could be drilled to a total depth of 4516 m ss and still test the Upper Cretaceous section

GORMACK GRAPH PAPERS : CHRISTCHURCH N.Z.
C102X 40 cm x 28 cm x 1 mm

MXT90 — 12

PROPOSED TABLE HEAD #1

GORMACK GRAPH PAPERS : CHRISTCHURCH N.Z. C102X 40 cm x 28 cm x 1 mm

GORMACK GRAPH PAPERS : CHRISTCHURCH N.Z. C102X 40 cm x 28 cm x 1 mm

No. significant velocity artifact at Table Head

SHALLOWING SECTION BRADDON POINT CREST

DEEPENING SECTION BRADDON POINT FLANK

shallowing at Top Cretaceous

Velocity, ie depth mapping will push eastern flank of Braddon Point down increasing area of closure and vertical relief