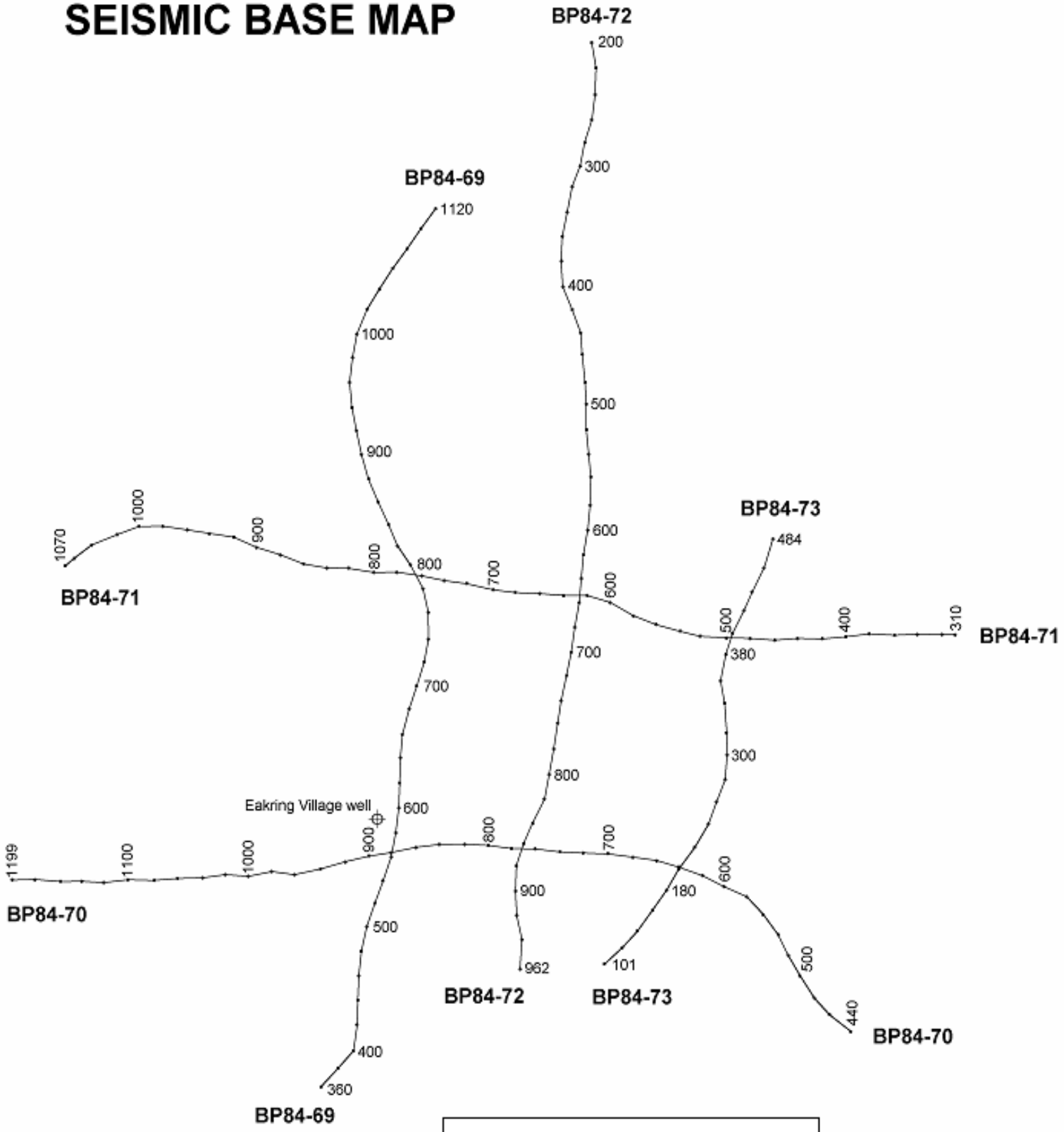
Seismic Interpretation
Correlating well and seismic data

- Use the Eakring Village well, which is located near the intersection of lines 69 and 70, to tie seismic reflectors to known geological horizons identified in the well:
  - Base Permian at 150 milliseconds
  - Blackshale Coal at 240 milliseconds
  - Near Top Dinantian at 500 milliseconds
- The potential reservoirs are Namurian and Westphalian (Upper Carboniferous) sandstones that occur below the Blackshale Coal and above the Near Top Dinantian (Lower Carboniferous) horizon.
- Use the information of the well in the attached figure to calculate and derivation of velocity.

- Try to recognize and pick each interested seismic reflector (geological horizons) which are mentioned above.
- Try to make isochrone and isopach maps.

SEISMIC BASE MAP



0 500 1000 2000 3000m

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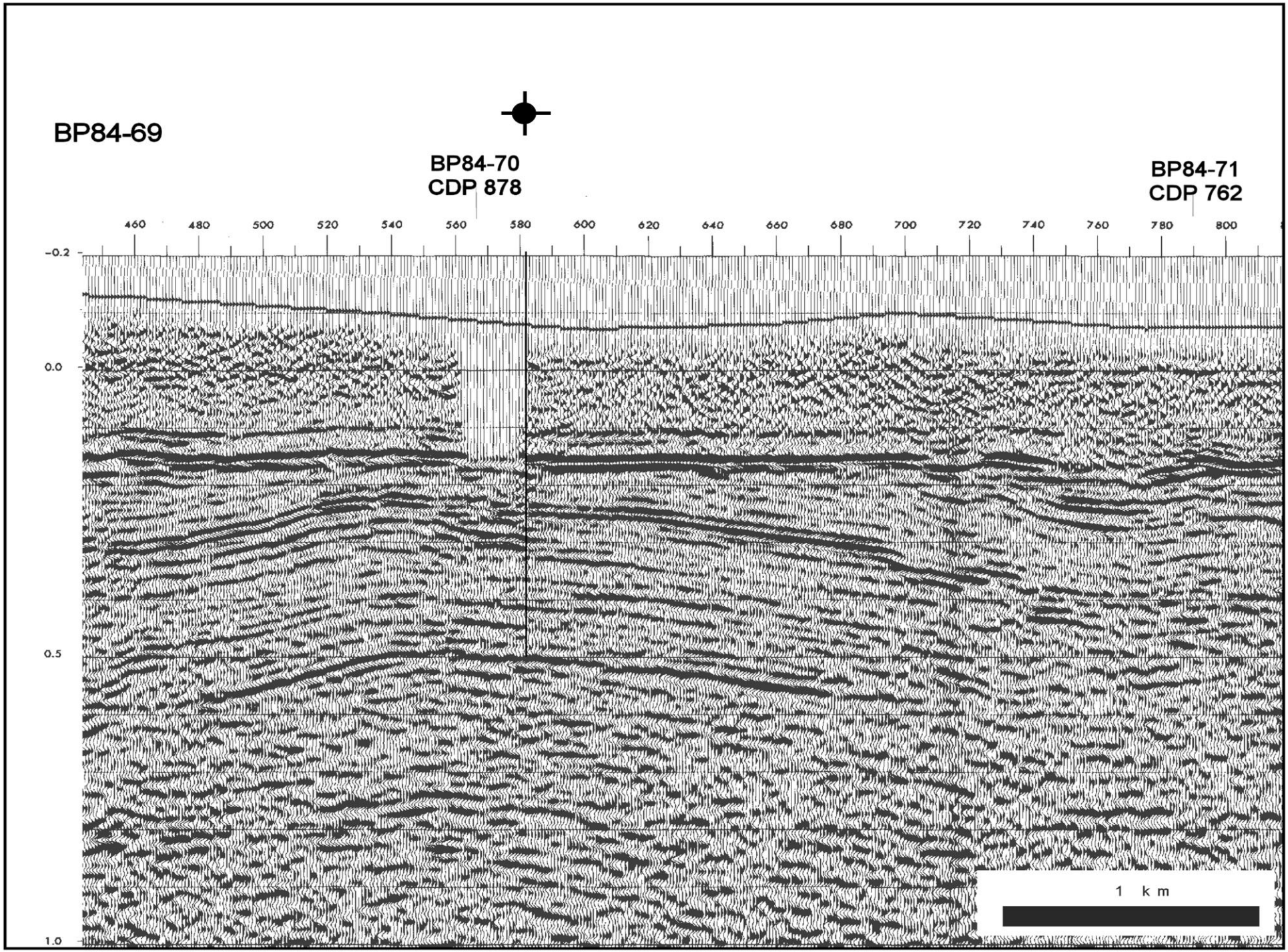
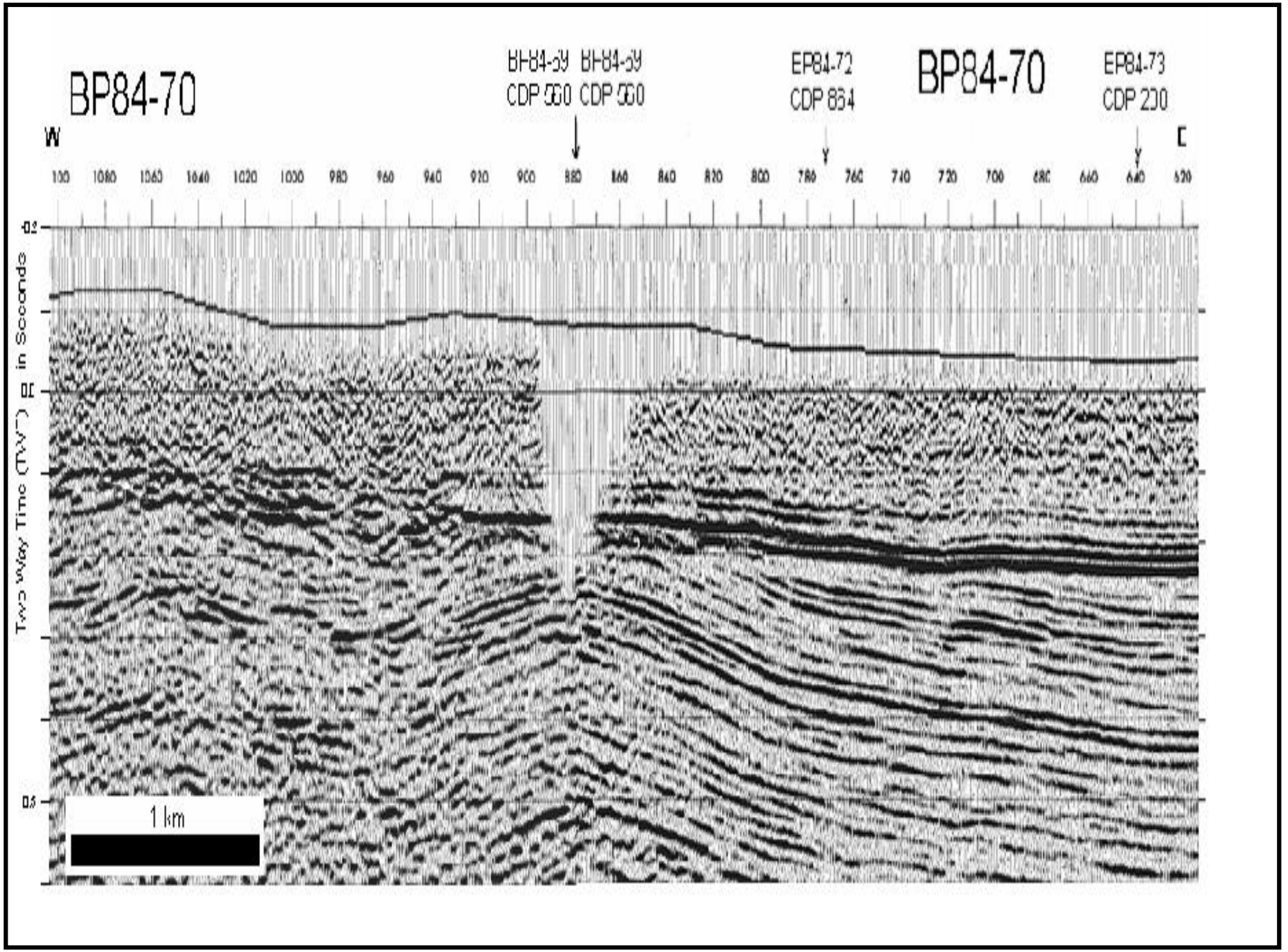
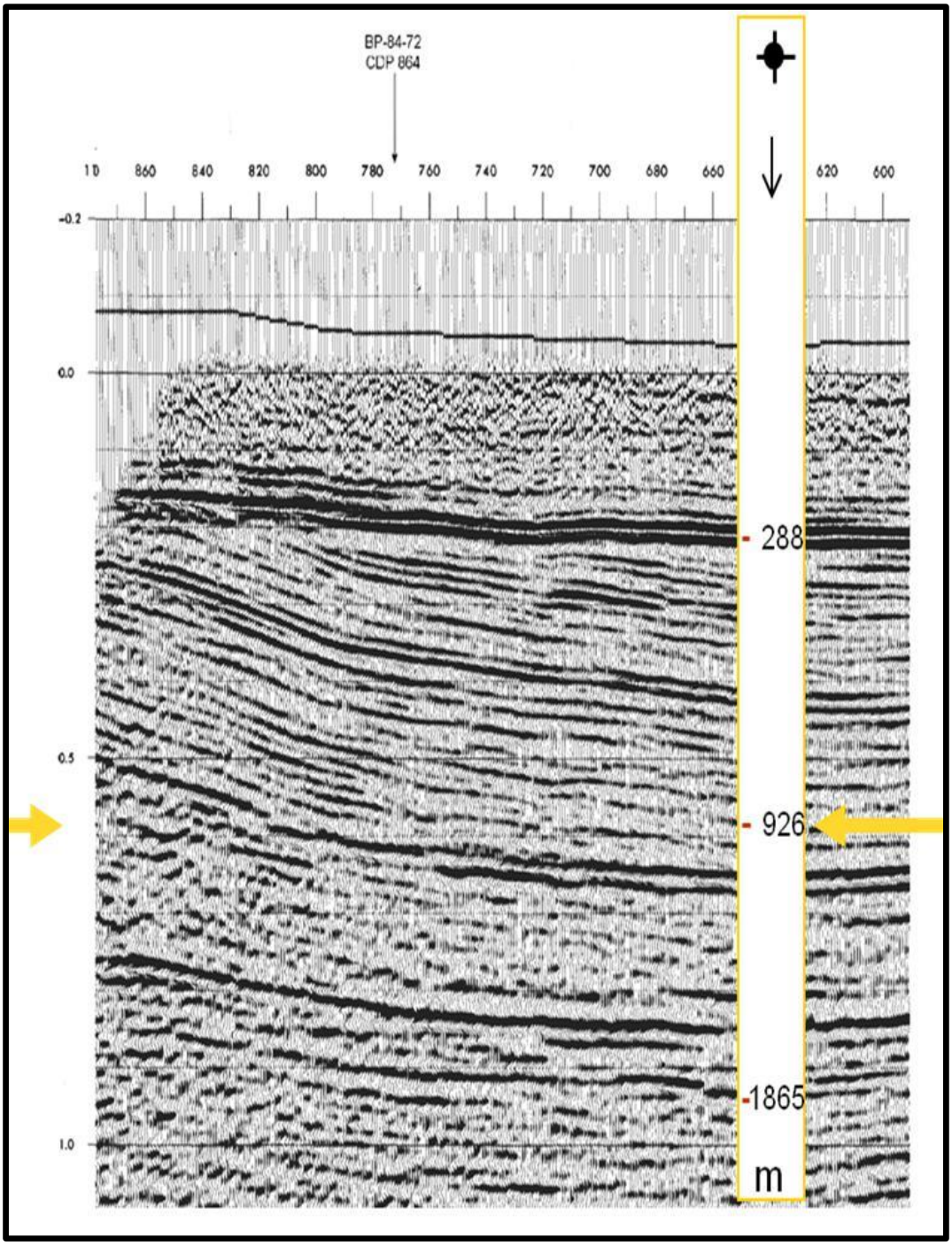
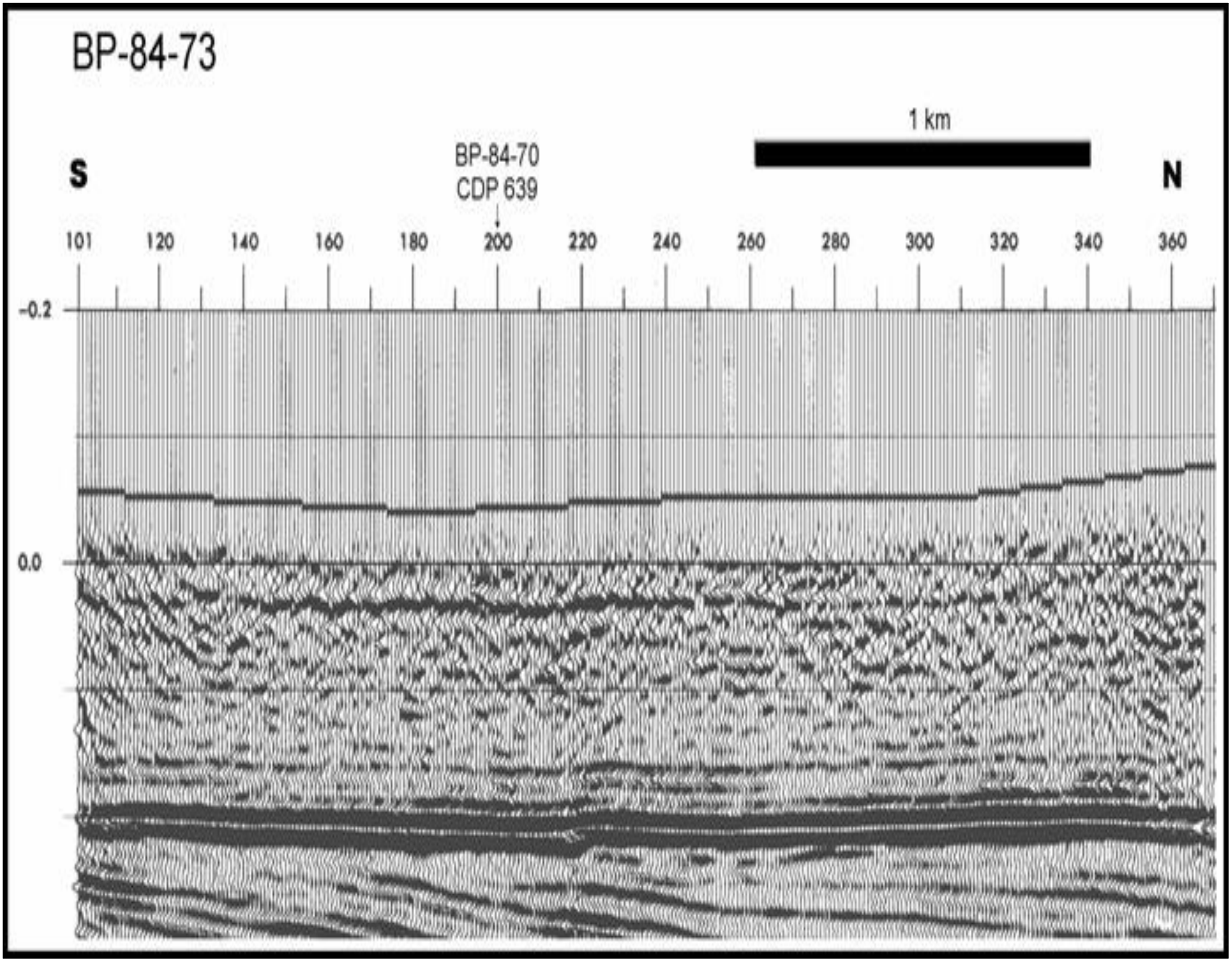

BP84-69
BP84-70
CDP 878
BP84-71
CDP 762
460
480
500
520
540
560
580
600
620
640
660
680
700
720
740
760
780
800
-0.2
0.0
0.5
1.0
1 k m


BP84-70
BH84-39 BH84-39
CDP 900 CDP 900
EP84-72
CDP 854
BP84-70
EP84-73
CDP 220
W
E
1100 1080 1060 1040 1020 1000 980 960 940 920 900 880 860 840 820 800 780 760 740 720 700 680 660 640 620
0.2
0.3
Two Way Time (TWT) in Seconds
1 km


BP-84-72
CDP 864
880
860
840
820
800
780
760
740
720
700
680
660
620
600
-0.2
0.0
0.5
1.0
288
926
1865
m


BP-84-73
1 km
S
N
BP-84-70
CDP 639
101
120
140
160
180
200
220
240
260
280
300
320
340
360
-0.2
0.0