Velocity analysis at CDP 4694

Time (ms)	Root mean square velocity (m/s)	Interval velocity (m/s)	Depth (m)
0.001	1,440.0	1,440.0	0.7
.050	1,360.0	1,358.3	34.0
.260	1,810.0	1,901.5	233.7
.600	2,230.0	2,504.1	659.4
1.000	2,550.0	2,966.0	1,252.5

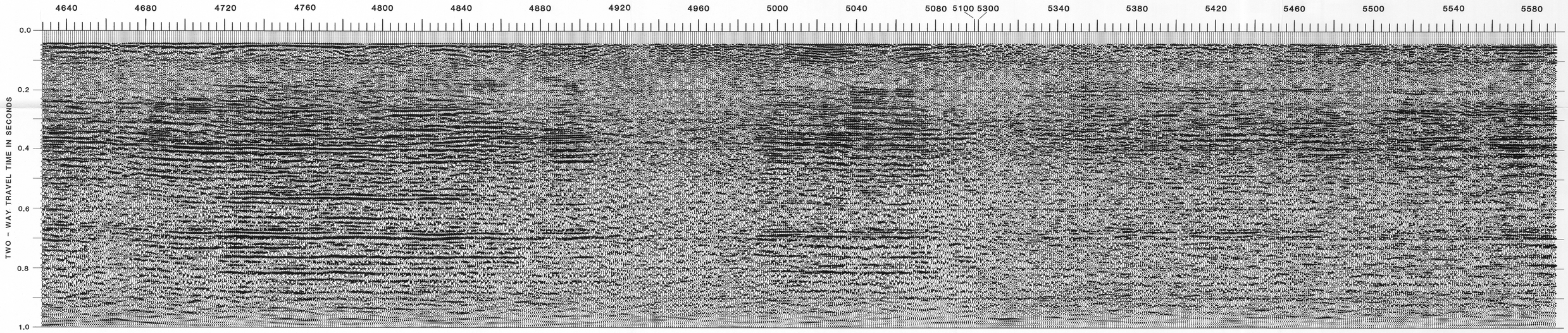
Velocity analysis at CDP 4994

Time (ms)	Root mean square velocity (m/s)	Interval velocity (m/s)	Depth (m)
0.001	1,440.0	1,440.0	0.7
.050	1,300.0	1,297.0	32.5
.325	1,800.0	1,876.7	290.5
.630	2,375.0	2,863.3	727.2
1.000	2,900.0	3,622.9	1,397.4

Velocity analysis at CDP 5434

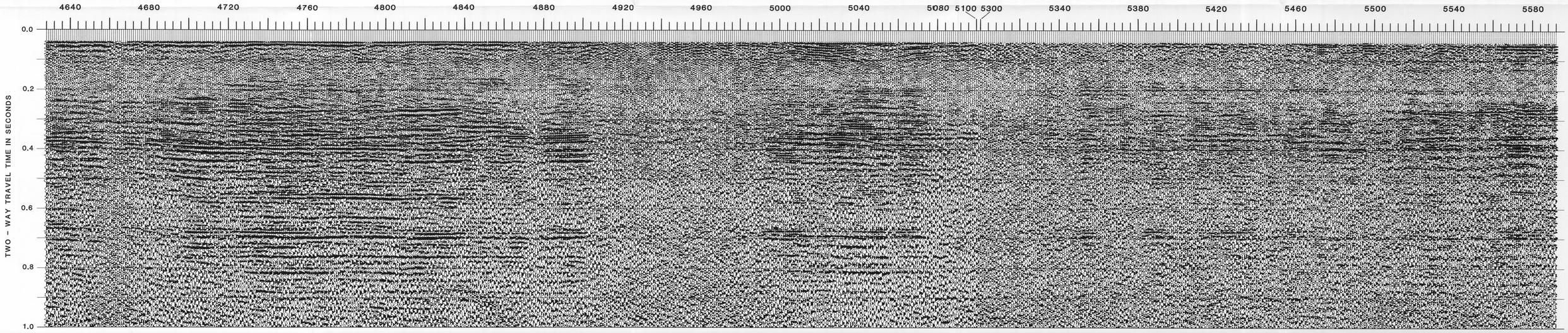
Time (ms)	Root mean square velocity (m/s)	Interval velocity (m/s)	Depth (m)
0.001	1,440.0	1,440.0	0.7
.050	1,280.0	1,276.5	32.0
.232	1,610.0	1,689.4	185.7
.683	1,945.0	2,096.6	658.5
1.000	2,200.0	2,667.8	1,081.4

COMMON DEPTH POINT



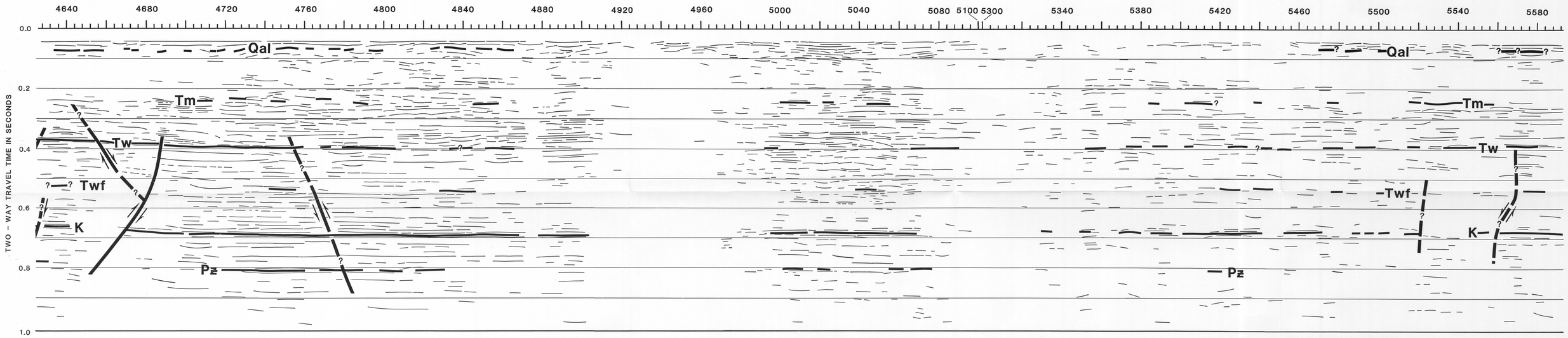
PROFILE C.-- MIGRATED SECTION

COMMON DEPTH POINT



PROFILE C.-- UNMIGRATED SECTION

COMMON DEPTH POINT



PROFILE C.-- LINE DRAWING

EXPLANATION FOR LINE DRAWING

Major regional seismic reflectors; queried where uncertain. Pz, top of the Paleozoic bedrock surface; K, bottom of the Paleocene Midway Group and top of the Upper Cretaceous McNairy Sand; Twf, bottom of the Paleocene Fort Pillow Sand of the Wilcox Group; Tw, bottom of the Eocene Claiborne Group and top of the Paleocene-Eocene Wilcox Group; Tm, top of the Eocene Memphis Sand of the Claiborne Group; Qal, base of the Quaternary Mississippi River alluvium

Locally prominent reflectors

Faults; dashed and queried where subtle or uncertain; arrows show direction of movement

SEISMIC-REFLECTION PROFILES OF THE NEW MADRID SEISMIC ZONE—DATA ALONG THE MISSISSIPPI RIVER NEAR CARUTHERSVILLE, MISSOURI

By
Anthony J. Crone, Samuel T. Harding, David P. Russ, and Kaye M. Shedlock

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