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Title of article Adirondack-Appalachian Crustal Structure: The COCORP

Northeast Traverse

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see GSA Bulletin v. 94, p. 1173 -

Contents 2 pages

Tables 1 and 2

TABLE 1.

COCORP NORTHEAST TRAVERSE PHASE I
DATA ACQUISITION PARAMETERS

| | |
|---|--|
| Contractor | Petty-Ray Geophysical, a Division of Geosource |
| No. of Vibrators | Crew 6834 |
| Vibrator Type | 5 preferred, 4 minimum |
| Sweep Frequencies | 4 Wabco Y-1100, 1 Wabco Y-900 (George E. Fai) |
| Sweep Length | 8-40 Hz upsweep |
| Uncorrelated record length | 22 sec |
| Correlated record length | 42 sec |
| Source spacing | 20 sec |
| Source array length | 201 m (402 m for line 8) |
| Vibrator spacing | 175 m for 5 vibrators, 160 m for 4 vibrators |
| Moveup between sweeps | 15 m |
| No. of sweeps per VP | 7.6 m |
| No. of geophones per station | 16 |
| Station spacing | 24 |
| Geophone array length | 101 m |
| Geophone array element spacing | 94 m |
| Geophone array weighting | 8.5 m |
| Recording system | 112233332211 |
| No. of channels | MDS-10 (Geosource, Inc.) |
| Sample interval | 96 |
| Filters | 4 msec |
| Spread configuration | 62.5 Hz lowpass, 60 Hz notch |
| Nominal distance from source to nearest receiver | inline, sources off end |
| Nominal distance from source to farthest receiver | 3 stations or 302 m (Lines 1,3,4,5) 5 stations or 503 m (Lines 7,8) 98 stations or 9,857 m (Lines 1,3,4,5) 100 stations or 10,058 m (Lines 7,8) |

TABLE 2
COCORP NORTHEAST TRAVERSE PHASE I
REPRESENTATIVE SUMMARY OF DATA PROCESSING

PROCESSING SYSTEM: MEGASEIS (Trademark Seiscom Delta, Inc.)

Demultiplex field tapes into trace sequential format
Deglitch if necessary
Vibroseis correlation
Edit noisy traces
Define survey geometry, invoke crooked line options
Bandpass filter 8-40 Hz
Resample at 8 ms interval
Apply elevation statics
Apply intertrace gain equalization and/or automatic gain control (AGC)
Apply mutes
Gather into Common Mid-Point (CMP) format
Velocity analysis
Apply normal moveout corrections
Apply additional mutes
Stack CMP traces
Apply gain equalization
Display