

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Petty-Ray Geophysical
Division
Geosource Inc.**

| | | | | |
|-----------------------------|---|--------------------------------|-----------------------------|------------------------|
| CLIENT Co - Corp. | AREA Charleston | STATE South Carolina | COUNTY Dorchester | DATE 4/25/78 |
| CREW NO. 6834 | TERRAIN SANDY - MARSH & WOODS | WEATHER WARM | LINE NO. 1 | |

| REC. NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN | TAPE RL. NO. | FILTER | | | TIME | REMARKS |
|----------|-------------|-----------------|---------|--------|----------|--------------|--------|------|-----|-------|-------------------------------|
| | | | | | | | LOCUT | 60 ~ | AMP | | |
| 1 | 934 | EINT - 1/4 | 6 SEC. | | | | | | | 12:00 | Filter # 900 6 SEC ALL ONES |
| 2 | 935 | EINT - NOSIE | " | | | | | | | | LINE LAYED OUT AT 1:30 |
| 3 | 936 | DRD - 3db | " | | | | | | | | |
| 4 | 937 | DRD - 72db | " | | | | | | | | |
| 5 | 938 | DRD - 78db | " | | | | | | | | |
| 6 | 939 | DRD - NOSIE | " | | | | | | | | |
| 7 | 933 | PULSE TEST | " | | | | | | | | |
| 8 | 953 | SUM TEST | " | | | | | | | | |
| 9 | 954 | " " | " | | | | | | | | |
| 10 | 890 | SEMULARBY TEST | 30 SEC. | | | | | | | 12:10 | Simularby Test Promotions |
| 11 | | | | | | | | | | | Out |
| 12 | | | | | | | | | | | Shut Down at 4:00 Due to Rain |
| 13 | | | | | | | | | | | |
| 14 | | | | | | | | | | | |
| 15 | | | | | | | | | | | |
| 16 | | | | | | | | | | | |
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| 24 | | | | | | | | | | | |
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|-----------------------------------|---------------------------------------|--|------------------------------------|---|--------------------------------|
| TOTAL SETUPS | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME | SYSTEM NO. |
| SWEEP FREQUENCY 8-32 up | SWEEP PATTERN | SWEEPS PER PATTERN 16 | SWEEP PATTERNS PER SETUP | PATCH PATTERN 1122 3333 22 11 | |
| GEOPHONES PER PATCH 24 | NO. OF RECORDING PATCHES 96 | TYPE VIBRATOR 4-41100 1-4900BD | TYPE GEOPHONE ETL EU-22B | FREQUENCY 7.5 HZ | STATION INTERVAL 220 |
| REMARKS Exp. Period | | | OBSERVER | PARTY MGR. Lawrence O. Davis | |

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Geosource Inc.**

| | | | | |
|--------------------------|---|---------------------------------------|-----------------------------|------------------------|
| CLIENT CO-CORP | AREA CHARLESTON | STATE SOUTH CAROLINA | COUNTY Dorchester | DATE 4-26-78 |
| CREW NO. 6834 | TERRAIN MARSHY WOODED AREA (DIRT ROAD WORK) | WEATHER WET & OVER CAST | LINE NO. 1 | |

| REC.NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN | TAPE RL.NO. | F I L T E R | | | TIME | REMARKS |
|---------|-------------|-----------------|---------|--------|----------|-------------|-------------|------|-----|-------|---|
| | | | | | | | LOCUT | 60 ~ | AMP | | |
| 1 | 934 | EINT TEST | | | | 001 | | | | 8:45 | 6 SEC. REC. |
| 2 | 935 | EINT TEST | | | | | | | | | " |
| 3 | 936 | DRD TEST | | | | | | | | | " |
| 4 | 937 | DRD TEST | | | | | | | | | " |
| 5 | 938 | DRD TEST | | | | | | | | | " |
| 6 | 939 | DRD TEST | | | | | | | | | " |
| 7 | 933 | PULSE TEST | | | | | | | | | " |
| 8 | 953 | SUM TEST | | | | | | | | | " |
| 9 | 954 | SUM TEST | | | | | | | | | " |
| 10 | 890 | SIMILARITY TEST | | 5 | | | | | | 9:00 | 30 SEC. REC. |
| 11 | 001 | 168 | | 4 | | | | | | 11:15 | 8 SUMS CORRELATED (1 vib kept going out of phase) STACKED |
| 12 | | NOISE TEST | | | | | | | | 12:20 | LINE NOISE CHECK - NO SOURCE 1-24 NOT ON TAPE |
| 13 | | NOISE TEST | | | | | | | | 12:25 | LINE NOISE CHECK - NO SOURCE 49-72 NOT ON TAPE |
| 14 | 002 | 175 | | 5 | | | | | | 1:00 | 16 SUMS CORRELATED (INCREASED CORRELATOR SETTINGS) |
| 15 | | | | | | | | | | | 405 ft S-vibrator source array into pods |
| 16 | 003 | 65 | | 4 | | | | | | 2:40 | STATION 145-150 IN FRONT OF HOUSES #1 TRUCK MISSED SWP #3 |
| 17 | | | | | | | | | | | #4 TRUCK MISSED SWP #4 #3 & #4 TRUCK MISSED SWP #5 |
| 18 | | | | | | | | | | | 16 SUMS CORRELATED - 405 ft. SOURCE ARRAY |
| 19 | 004 | 65 | | 5 | | | | | | 3:05 | #4 TRUCK MISSED SWP #1 |
| 20 | | | | | | | | | | | 16 SUMS CORRELATED 540 ft. SOURCE ARRAY |
| 21 | 005 | 71 | | 5 | | | | | | 3:30 | 8 SUMS CORRELATED - STACKED |
| 22 | | | | | | | | | | | |
| 23 | | | | | | | | | | | |
| 24 | | | | | | | | | | | |
| 25 | | | | | | | | | | | |

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|--------------------------------|-------------------------------------|---|------------------------------------|----------------------------|---------------------------------|
| TOTAL SETUPS | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME | SYSTEM NO. |
| SWEEP FREQUENCY 8-32 | SWEEP PATTERN | SWEEPS PER PATTERN | SWEEP PATTERNS PER SETUP | PATCH PATTERN | |
| GEOPHONES PER PATCH | NO. OF RECORDING PATCHES | TYPE VIBRATOR 4 Y-1100 1 Y-900 BD | TYPE GEOPHONE ETL EV-22B | FREQUENCY 7.5 Hz | STATION INTERVAL 220' |
| REMARKS Exp. Period | OBSERVER Simmons / Brooks | PARTY MGR Lawrence O. Davis | LINE DIR. 1 TO 24 S-N | | |

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

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Geosource Inc.

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|---------------------------|--|--------------------------------------|-----------------------------|------------------------|
| CLIENT CO-CORP. | AREA CHARLESTON | STATE SOUTH CAROLINA | COUNTY DORCHESTER | DATE 4-27-78 |
| CREW NO. 6834 | TERRAIN SANDY - MARSHY WOODED AREA (DIRT ROAD) | WEATHER WET & OVERCAST | LINE NO. 1 | |

| REC.NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN | TAPE RL.NO. | F I L T E R | | | TIME | REMARKS |
|---------|----------------|-----------------|---------|---------|----------|-------------|-------------|------|-------|---|---------|
| | | | | | | | LOCUT | 60 ~ | AMP | | |
| 1 | 934 | EINT TEST | 1 UV | 6 sec. | | 001 | OUT | OUT | 12:30 | LATE START DELAY DUE TO JUG CREW HAVING TO COME OUT & LAY JUGS IN THE PROPER ARRAY (JUGS WERE IN PODS FOR NOISE TESTING) | |
| 2 | 935 | EINT TEST | NOISE | " | | | | | | | |
| 3 | 936 | DRD TEST | -3db | " | | | | | | | |
| 4 | 937 | DRD TEST | -72db | " | | | | | | | |
| 5 | 938 | DRD TEST | -78db | " | | | | | | | |
| 6 | 939 | DRD TEST | NOISE | " | | | | | | | |
| 7 | 933 | Pulse TEST | | " | | | | | | OB TRUCK SET UP BETWEEN STA. 123 & 124 | |
| 8 | 953 | SUM TEST | | 4 sec. | | | | | | | |
| 9 | 954 | SUM TEST | | " | | | | | | | |
| 10 | 960 | NRS | | " | | | | | | | |
| 11 | 961 | NRS | | " | | | | | | | |
| 12 | 890 | SIMILARITY TEST | | 30 sec. | 5 | | | | 1:00 | VIB #1 HAD ACC. PHASING PROBLEMS; VIB #5 LATE GETTING TO FIELD (FUEL PROBLEMS) | |
| 13 | | | | | | | | | 3:00 | VIB #3 STOPPING DURING MIDDLE OF THE SWP. | |
| 14 | | | | | 4 | | | | | VIBS DRIVING DOWN TO STA. 44 1 VIB DOWN (T/O CARD) | |
| 15 | 006 | | | | | | | | 3:30 | TRouble WITH VIBS RECEIVING TONE; VIBS MOVING UP TO STA. 55 | |
| 16 | 006 | 55 | 62-157 | | 4 | | | | 4:10 | 2 VIBS HAVING RADIO PROBLEMS; 4 VIBS 60' APART; BIN TAPE BROKE | |
| 17 | | | | | | | | | | #1 VIB MISSED SWP. #4; ONLY 1 VIB SWP. ON SUM #5; #1 VIB MISSED SUM #3; #3 VIB MISSED SWP. #15 | |
| 18 | | | | | | | | | | 4 VIBS - 490' ARRAY | |
| 19 | 007 | 55 | 62-157 | | 4 | | | | 5:00 | 4 VIBS - 612.5' ARRAY | |
| 20 | | | | | | | | | | END OF TAPE FILE | |
| 21 | | | | | | | | | | | |
| 22 | | | | | | | | | | | |
| 23 | | | | | | | | | | | |
| 24 | | | | | | | | | | | |
| 25 | | | | | | | | | | | |

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|----------------------------------|---------------------------------------|---|-------------------------------------|---|---------------------------------|
| TOTAL SETUPS | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME | SYSTEM NO. |
| SWEEP FREQUENCY 8.32 | SWEEP PATTERN | SWEEPS PER PATTERN 16 | SWEEP PATTERNS PER SETUP | PATCH PATTERN 1 1 2 2 3 3 3 3 2 2 1 1 | |
| GEOPHONES PER PATCH 24 | NO. OF RECORDING PATCHES 96 | TYPE VIBRATOR 4 V-1100 14-900 | TYPE GEOPHONE ETL EV-22B | FREQUENCY 7.5 Hz | STATION INTERVAL 220' |
| REMARKS Exp. Period | OBSERVER Simmons / Brooks | PARTY MGR. Lawrence O. Davis | LINE DIR. 1 TO 24 S-N | | |

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Geosource Inc.**

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|-------------------------|---|--------------------------------|-----------------------------|------------------------|
| CLIENT COCORP | AREA CHARLESTON | STATE SOUTH CAROLINA | COUNTY DORCHESTER | DATE 4-28-78 |
| CREW NO. 6834 | TERRAIN SANDY-MARSH & WOODS (DIRT ROAD) | WEATHER LOUD CLEAR | LINE NO. 1 | |

| REC. NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN TIME | TAPE RL. NO. | F L T E R | | | REMARKS |
|----------|----------------|-----------------|---------|--------|---------------|--------------|-----------|------|-----|--|
| | | | | | | | LOCUT | 60 ~ | AMP | |
| 1 | 900 | ALL ONES | 10 sec. | | 8:00 | 002 | OUT | OUT | | CHECKED OUT VIBRATORS ANTENNAS |
| 2 | 934 | EINT | 6 sec. | | | | | | | |
| 3 | 935 | EINT | " | | | | | | | 1 VIB DOWN DUE TO T/O CARD (NO SPARE) |
| 4 | 936 | DRD | -3db | | | | | | | |
| 5 | 937 | DRD | -72db | | | | | | | OB SET UP BETWEEN STATIONS 122-123 |
| 6 | 938 | DRD | -78db | | | | | | | |
| 7 | 939 | DRD | Noise | | | | | | | |
| 8 | 953 | SUM TEST | " | | | | | | | |
| 9 | 954 | SUM TEST | " | | | | | | | |
| 10 | 960 | NRS | " | | | | | | | |
| 11 | 961 | NRS | " | | | | | | | |
| 12 | 890 | SIMILARITY | 30 sec. | 4 | 8:25 | | | | | CHECKING TO MAKE SURE ALL VIBS RECEIVING SIGNALS |
| 13 | 001 | 44 | 1 | | 10:00 | | | | | VIB #1 MISSED SWP #5 CORRELATED 1-24 25-48 49-72 73-96 |
| 14 | 002 | 46 | 3 | | 11:00 | | | | | HOUSE AT STA. 134 - MAN MOWING GRASS CUT CABLE INTO - HAD TO REPLACE CABLE |
| 15 | | | | | | | | | | #3 MISSED SWP #2 #4 MISSED SWP #3 #1 & #4 MISSED SWP #4 VIBS NOT |
| 16 | | | | | | | | | | RECEIVING TONES - MOVING UP CLOSER TO RECORDER |
| 17 | 002 | 55 | 12 | | 11:15 | | | | | #1 MISSED SWP #1 #1 MISSED SWP #2 #4 MISSED SWP #3 #1 & #3 MISSED SWP #4 |
| 18 | | | | | | | | | | #3 MISSED SWP #5 #2 MISSED SWP #8 #4 MISSED SWP #9 #3 MISSED SWP #11 |
| 19 | | | | | | | | | | #3 MISSED SWP #12 #3 MISSED SWP #13 #3 MISSED SWP #14 #1 MISSED SWP #15 |
| 20 | | | | | 11:35 | | | | | MOVING VIBS UP TO STA. 87 - TRYING TO DETERMINE GREATEST DISTANCE |
| 21 | | | | | | | | | | FROM RECORDER THEY CAN BE SEEN STILL RECEIVE MAX. NUMBER OF TONES |
| 22 | | | | | 12:20 | | | | | CHANGED ANTENNAS ON RECORDER - TESTING TO SEE IF VIBS RECEIVING BETTER |
| 23 | | | | | | | | | | VIBS STILL MISSING TOO MANY TONES - OB TRUCKS MOVING |
| 24 | | | | | | | | | | UP CLOSER TO VIBS |
| 25 | | | | | 1:00 | | | | | TESTING TO SEE IF VIBS RECEIVING ANY BETTER; 1 VIB HAVING FUEL PROBLEMS |

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|--------------------------------|--------------------------------|------------------------------------|------------------------------|---|--------------------------|
| TOTAL SETUPS | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME 30 MINUTE DRIVE OUT | SYSTEM NO. MPS 10 |
| SWEEP FREQUENCY 8.32 up | SWEEP PATTERN incline | SWEEPS PER PATTERN 14 | SWEEP PATTERNS PER SETUP | PATCH PATTERN 1 1 2 2 3 3, 3 3 2 2 1 1 | |
| GEOPHONES PER PATCH 24 | NO. OF RECORDING PATCHES 96 | TYPE VIBRATOR 44-1100 14-900 | TYPE GEOPHONE ETC EV-22B | FREQUENCY 7.5 HZ | STATION INTERVAL 220' |
| REMARKS STARTING PRODUCTION | | | OBSERVER SIMMONS / BROOKS | PARTN. MDR. Lawrence O. Davis | |

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Geosource Inc.**

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| CLIENT COCORP | AREA CHARLESTON | STATE SOUTH CAROLINA | COUNTY DORCHESTER | DATE 4-28-78 |
| CREW NO. 6834 | TERRAIN SANDY-MARSH & WOODS (DIRT ROAD) | WEATHER CLEAR | | LINE NO. 1 |

| REC. NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN TIME | TAPE RL. NO. | F I L T E R | | | REMARKS |
|----------|-------------|-----------------|----------|--------|---------------|--------------|-------------|------|-----|--|
| | | | | | | | LOCUT | 60 ~ | AMP | |
| 1 | 003 | 43 | 50 - 145 | 44 | 4 | 2:35 | 002 | OUT | OUT | OB SET UP BETWEEN STATIONS 78 & 79 REPLACED 1 BAD CABLE; FIXED 2 WEAK STA.; #1 MISSED SWP #7; #3 MISSED SWP #8 |
| 2 | | | | | | | | | | CORRELATED 1-24, 25-48, 49-72, 73-96 |
| 3 | 004 | 47 | 54 - 149 | 48 | | 3:15 | | | | HOUSE AT STA. 45 & COULD NOT SHAKE; WAITING FOR A TRUCK PULLING A BULLDOZER TO CLEAR THE LINE; INCREASED DRIVE TO 70%. |
| 4 | | | | | | | | | | OB TRUCK MOVED UP - SET UP BETWEEN STA. 100 & 101 |
| 5 | | | | | | | | | | |
| 6 | 005 | 49 | 56 - 151 | 28 | | 4:05 | | | | #3 MISSED SWP #3; #3 MISSED SWP #6; #1 & #3 MISSED SWP #13 |
| 7 | | | | | | | | | | |
| 8 | 006 | 51 | 58 - 153 | 30 | | 4:22 | | | | #3 MISSED SWP #5; #1 & #4 MISSED SWP #8; #3 MISSED SWP #9; #1 MISSED SWP #13 |
| 9 | 007 | 53 | 60 - 155 | 32 | | 4:43 | | | | #3 MISSED SWP #1; #5 MISSED SWP #4; #4 MISSED SWP #6; #4 MISSED SWP #11; RAN RAW RECORD |
| 10 | 008 | 55 | 62 - 157 | 34 | | 5:01 | | | | #3 MISSED SWP #2; #4 MISSED SWP #3; #1 MISSED SWP #12; |
| 11 | 009 | 57 | 64 - 159 | 36 | | 5:25 | | | | NOISE ON STATIONS 134 & 135 - HOUSES; #4 MISSED SWP #8; #3 MISSED SWP #12 |
| 12 | | | | | | | | | | |
| 13 | | | | | | 5:45 | | | | SHUT DOWN & HEADED FOR TOWN |
| 14 | | | | | | | | | | |
| 15 | | | | | | | | | | |
| 16 | | | | | | | | | | |
| 17 | | | | | | | | | | |
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|---|---------------------------------------|--|-------------------------------------|---|---------------------------------|
| TOTAL SETUPS | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME | SYSTEM NO. MDS 10 |
| SWEEP FREQUENCY 8-32 up | SWEEP PATTERN IN Line | SWEEPS PER PATTERN 16 | SWEEP PATTERNS PER SETUP | PATCH PATTERN 1 1 2 2 3 3 x 3 3 2 2 1 1 | |
| GEOPHONES PER PATCH 24 | NO. OF RECORDING PATCHES 96 | TYPE VIBRATOR 44-1100 14-900 | TYPE GEOPHONE ETC EV-22B | FREQUENCY 7.5 HZ | STATION INTERVAL 220' |
| REMARKS OB TRUCK HAS TO BE FAIRLY CLOSE TO VIBS FOR THEM TO RECEIVE TONES | | | OBSERVER Simmons / Brooks | PARTY MGR. Lawrence O. Davis | |

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DIGITAL VIBROSEIS RECORDER**

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Geosource Inc.**

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|-------------------------|---|--------------------------------|-----------------------------|------------------------|
| CLIENT COCORP | AREA CHARLESTON | STATE SOUTH CAROLINA | COUNTY DORCHESTER | DATE 4-29-78 |
| CREW NO. 6834 | TERRAIN SANDY-MARSH & WOODS (DIRT ROAD) | WEATHER CLEAR | LINE NO. 1 | |

| REC.NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP-GAIN TIME | TAPE RL.NO. | F I L T E R | | | REMARKS |
|---------|-------------|------------------------|---------|--------|---------------|-------------|-------------|------|-------------|--|
| | | | | | | | LOCUT | 60 ~ | AMP DRIVE % | |
| 1 | 933 | PULSE TEST | 6 sec. | | 8:00 | 002 | OUT | OUT | | REPLACED CHANNEL 96 PREAMP CARD |
| 2 | 934 | EINT | " | | | | | | | 1 VIB DOWN DUE TO T/O CARD (NO SPARE) |
| 3 | 935 | EINT | " | | | | | | | |
| 4 | 936 | DRD | " | | | | | | | |
| 5 | 937 | DRD | " | | | | | | | |
| 6 | 938 | DRD | " | | | | | | | |
| 7 | 939 | DRD | " | | | | | | | |
| 8 | 953 | SUM TEST | " | | | | | | | NOTE CHANNEL 96 - GIVING PROBLEMS - |
| 9 | 954 | SUM TEST | " | | | | | | | |
| 10 | 960 | NRJ | " | | | | | | | |
| 11 | 961 | NRJ | " | | | | | | | |
| 12 | 890 | SIMILARITY | 30 sec. | 4 | 9:00 | | | | | NOTE VIB #3 (T/O CARD) |
| 13 | | | | | | | | | | NOISE ON STATIONS 132-134 DUE TO BULLDOZER WORKING AT HOUSES |
| 14 | | | | | | | | | | OB TRUCK SET UP BETWEEN STATIONS 100 & 101 |
| 15 | 010 | WIND STRIP (NO SOURCE) | | | | | | | | 6 SEC. REC.; FIXED GAIN 66db; (PLAYBACK FIXED); FINAL 90db; (FILE #10 missing BUT RECORD ON TAPE) |
| 16 | | | | | 12:05 | | | | | VIB #12667 BURSTED RADIATOR HOSE (NO SPARE) (CREW DOWN - WENT TO TOWN TO GET ONE) |
| 17 | 011 | 59 | 66-161 | 38 | 4 | 1:50 | | | 78% | #2; #1 MISSED SWP #7; #4 MISSED SWP #3; CORRELATED 1-24, 25-48, 49-72, 73-96 |
| 18 | | | | | | | | | | END OF TAPE FILE 002; B.O.F. #003 |
| 19 | 900 | ALL ONES | | | 2:25 | 003 | | | | 6 SEC. ALL ONES; WAITED FOR BULLDOZER TO SHUT DOWN |
| 20 | 012 | 61 | 68-163 | 40 | | 2:45 | | | | STACKED FIRST HALF HOUSE (0'-110') #3 MISSED SWP #8; #2 MISSED SWP #9 |
| 21 | 013 | 63 | 70-165 | 42 | | 3:13 | | | 50% | CORRELATED 1-24, 25-48, 49-72, 73-96 |
| 22 | 014 | 65 | 72-167 | 44 | | 3:35 | | | | #3 MISSED SWP #10; #1 MISSED SWP #11; 1 TRUCK RIDING DOWN THE LINE |
| 23 | 015 | 67 | 74-169 | 46 | | 4:00 | | | | WAITING FOR TRAFFIC TO CLEAR LINE; #1 MISSED SWP #3; (RAW SWP. RAN) |
| 24 | 016 | 69 | 76-171 | 48 | | 4:18 | | | | |
| 25 | 017 | WIND STRIP (NO SOURCE) | | | 4:35 | | | | | 1 VEHICLE ON LINE; SETTINGS SAME AS OTHER; (PLT NEW ANTENNA ON RECORDER & TESTING) |

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|----------------------------------|---------------------------------------|--|-------------------------------------|--|---------------------------------|
| TOTAL SETUPS 1 | TOTAL SWEEPS 60 | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME 30 MINUTES DRIVE OUT | SYSTEM NO. MDS 10 |
| SWEEP FREQUENCY 8-32 | SWEEP PATTERN | SWEEPS PER PATTERN 16 | SWEEP PATTERNS PER SETUP | PATCH PATTERN 1 1 2 2 3 3, 3 3 2 2 1 1 | |
| GEOPHONES PER PATCH 24 | NO. OF RECORDING PATCHES 96 | TYPE VIBRATOR 4V-1100 14-900 | TYPE GEOPHONE ETC EV-22B | FREQUENCY 7.5 HZ | STATION INTERVAL 220' |
| REMARKS | OBSERVER SIMMONS / BROOKS | PARTY MGR. | LINE DIR. 1 TO 24 S-N | | |

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DIGITAL VIBROSEIS RECORDER

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|-------------------------|--|--------------------------------|-----------------------------|-----------------------|
| CLIENT COCORP | AREA CHARLESTON | STATE SOUTH CAROLINA | COUNTY DORCHESTER | DATE 5-1-78 |
| CREW NO. 6834 | TERRAIN MARSHY-SANDY WOODS (DIRT ROAD) | WEATHER WET OVERCAST | LINE NO. 1 | |

| REC. NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN TIME | TAPE RL. NO. | F I L T E R | | | REMARKS |
|----------|----------------|-----------------|-------------------|---------------|---------------|--------------|-------------|------|------------------|---|
| | | | | | | | LOCUT | 60 ~ | AMP VIB DRIVE TO | |
| 1 | 933 | Pulse TEST | 6 sec. | | 8:00 | 003 | OUT | OUT | | INSTALLED NEW RADIOS IN ALL VIBS & Put DIRECTIONAL ANTENNA ON RECORDER. |
| 2 | 934 | EINT | " | | | | | | | |
| 3 | 935 | EINT | " | | | | | | | |
| 4 | 936 | DRD | " | | | | | | | OB SET UP BETWEEN STATIONS 122 & 123 |
| 5 | 937 | DRD | " | | | | | | | STATION 177 OPEN DUE TO H'WAY AT STA. PT. |
| 6 | 938 | DRD | " | | | | | | | HOUSES AT STATIONS 133 - 135 |
| 7 | 939 | DRD | " | | | | | | | |
| 8 | 953 | SUM TEST | " | | | | | | | |
| 9 | 954 | SUM TEST | " | | | | | | | |
| 10 | 960 | NRS | " | | | | | | | |
| 11 | 961 | NRS | " | | | | | | | NOISE PROBLEM WITH REJECT SYSTEM |
| 12 | 890 | SIMILARTY | 30 sec. | 4 | 10:30 | | | | | |
| 13 | 018 | WIND STRIP | 78-173 | 6 sec. | 11:45 | | | | | PLAYBACK - FIXED ; BS/FIXED - 66db ; FINAL 90db |
| 14 | 019 | 71 | 78-173 | 28 | 12:00 | | | | | VIB HAVING HEAD CONTROL PROBLEMS; IDLER PULL FROZE ON VIB 12667 (DOWN 1 HOUR) |
| 15 | | | | | 1:00 | | | | 50% | CORRELATED 1-24, 25-48, 49-72, 73-96 |
| 16 | 020 | 73 | 80-175 | 30 | 1:15 | | | | | STARTED RAINING |
| 17 | 021 | 75 | 82-177 | 32 | 1:40 | | | | | RAW SWEEP |
| 18 | 022 | 77 | 84-179 | 34 | 2:09 | | | | | STARTED FR LIGHTNING ; SHUT DOWN |
| 19 | | | | | | | | | | |
| 20 | | | | | | | | | | Raining Hard |
| 21 | | | | | | | | | | |
| 22 | | | | | | | | | | |
| 23 | | | | | | | | | | |
| 24 | | | | | | | | | | |
| 25 | | | | | | | | | | |

| | | | | | |
|---------------------|--------------------------|---------------------|--------------------------|--------------------------|------------------|
| TOTAL SETUPS | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME | SYSTEM NO. |
| | | | | 30 MINUTE DRIVE OUT | MDS 10 |
| SWEEP FREQUENCY | SWEEP PATTERN | SWEEPS PER PATTERN | SWEEP PATTERNS PER SETUP | PATCH PATTERN | |
| 8-32 | | 16 | | 1 1 2 2 3 3, 3 3 2 2 1 1 | |
| GEOPHONES PER PATCH | NO. OF RECORDING PATCHES | TYPE VIBRATOR | TYPE GEOPHONE | FREQUENCY | STATION INTERVAL |
| 24 | 96 | 4 V-1100 1 V-900 | | 7.5 Hz | 220' |
| REMARKS | OBSERVER | PARTY MGR. | | | |
| | SIMMONS / BROOKS | Lawrence O. Davis | | | |

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Petty-Ray Geophysical
Division
Geosource Inc.**

| | | | | |
|-------------------------|--|--|-----------------------------|-----------------------|
| CLIENT COCORP | AREA CHARLESTON | STATE SOUTH CAROLINA | COUNTY DORCHESTER | DATE 5-2-78 |
| CREW NO. 6834 | TERRAIN MARSHY - SANDY WOODS (DIET ROAD) | WEATHER WET & OVERCAST (RAINY) | LINE NO. 1 | |

| REC. NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN TIME | TAPE RL. NO. | F I L T E R | | | REMARKS |
|----------|----------------|------------------------|-------------------|--------|-----------------|--------------|-------------|------|----------------|---|
| | | | | | | | LOCUT | 60 ~ | AMP GAIN DRIVE | |
| 1 | 933 | PULSE TEST | 6 sec. | | 7:40 | 003 | OUT | OUT | | |
| 2 | 934 | EINT | " | | | | | | | STATION 177 OPEN DUE TO HWY - NOISEY DUE TO TRAFFIC |
| 3 | 935 | EINT | " | | | | | | | HOUSES AT STATIONS 133-135 |
| 4 | 936 | DRD | " | | | | | | | |
| 5 | 937 | DRD | " | | | | | | | OB SET UP BETWEEN STATIONS 122 & 123 |
| 6 | 938 | DRD | " | | | | | | | |
| 7 | 939 | DRD | " | | | | | | | |
| 8 | 953 | SUM TEST | " | | | | | | | |
| 9 | 954 | SUM TEST | " | | | | | | | |
| 10 | 960 | NRJ | " | | | | | | | |
| 11 | 961 | NRJ | " | | | | | | | STARTING TO RAIN - ROAD VERY MURRY |
| 12 | 890 | SIMILARITY | 30 sec. | 5 | 8:05 | | | | | WAITING FOR THUNDERSTORM TO PASS OVER |
| 13 | 022 | WIND STRIP (NO SOURCE) | 6 sec. | | 9:33 | | | | | PLAYBACK - FIXED; BS/FIXED - 66db; FINAL 90db |
| 14 | 023 | 77 | 34 | | 9:39 | | | | 50% | CORRELATED 1-24, 25-48, 49-72, 73-96 |
| 15 | 024 | 79 | 36 | | 10:18 | | | | | CLEANED HEADS ON BIN STRIP; RAW SWEEP |
| 16 | EOF | EOF | | | 10:40 | EOF | | | | EOF 003 BOF 004 |
| 17 | 900 | ALL ONES | 10 sec. | | 10:55 | 004 | | | | ALL ONES (10 sec.) |
| 18 | 025 | 81 | 38 | | 11:05 | | | | | |
| 19 | 026 | 83 | 40 | | 11:21 | | | | | 1 TRUCK RIDING DOWN LINE |
| 20 | 027 | 85 | 42 | | 11:40 | | | | | 1 CAR RIDING DOWN LINE |
| 21 | 028 | 87 | 44 | | 12:00 | | | | | BIN TAPE CAME APART - RESPLICED |
| 22 | 029 | 89 | 46 | | 12:36 | | | | | |
| 23 | 030 | 91 | 48 | | 12:55 | | | | | |
| 24 | 031 | WIND STRIP | 6 sec. | | 1:55 | | | | | OB MOVING UP - SET UP BETWEEN 155 & 156 |
| 25 | 031 | WIND STRIP (NO SOURCE) | 6 sec. | | 1:55 | | | | | PLAYBACK - FIXED; BS FIX - 66db; FINAL 90db |

| | | | | | |
|--|---------------------------------------|--|-------------------------------------|---|---------------------------------|
| TOTAL SETUPS 2 | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME 30 MINUTES DRIVE OUT | SYSTEM NO. MDS 10 |
| SWEEP FREQUENCY 8:32 | SWEEP PATTERN | SWEEPS PER PATTERN 16 | SWEEP PATTERNS PER SETUP | PATCH PATTERN 1 1 2 2 3 3 3 2 2 1 1 | |
| GEOPHONES PER PATCH 24 | NO. OF RECORDING PATCHES 96 | TYPE VIBRATOR 44-1100 14-900 | TYPE GEOPHONE ETL EV-22B | FREQUENCY 7.5 HZ | STATION INTERVAL 220' |
| REMARKS RAINING OFF & ON | | | OBSERVER SIMMONS / BROOKS | PARTY NO. & SIGNATURE Lawrence P. Davis | |

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Petty-Ray Geophysical
Division
Geosource Inc.**

| CLIENT COCORP | | AREA CHARLESTON | | STATE SOUTH CAROLINA | | COUNTY DORCHESTER | | DATE 5-2-78 | | | | | |
|-------------------------|-------------|--|------------------|--------------------------------------|---------------|-----------------------------|-------------|-----------------------|-----------------|---------|----------------------------------|---|---|
| CREW NO. 6834 | | TERRAIN MARSHY - SANDY WOODS (DIRT ROAD) | | WEATHER WET & OVERCAST | | LINE NO. 1 | | | | | | | |
| REC. NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN TIME | TAPE RL. NO. | F I L T E R | | | REMARKS | STATION 177 ROAD - CROSSES H'WAY | | |
| | | | | | | | LOCUT | 60 ~ | AMP. VIB. RANGE | | | | |
| 1 | 032 | 93 | 100 - 195 | 17 | 5 | 2:10 | 004 | OUT | OUT | 50% | OB SETUP BETWEEN 155 & 156 | LOW freq. gd. Roll from H'WAY 61 (AT END OF LINE) | |
| 2 | 033 | 95 | 102 - 197 | 19 | | 2:26 | | | | | | CORRELATED 1-24, 25-48, 49-72, 73-96. | |
| 3 | SKIP | 97 | SKIP | | | | | | | | | } SKIPS FOR STACKING PURPOSES | |
| 4 | SKIP | 99 | SKIP | | | | | | | | | | |
| 5 | SKIP | 101 | SKIP | | | | | | | | | | |
| 6 | 034 | 103 | 91-96 110-199 | 8 | | 3:19 | | | | | | | SHOOTING THRU SPREAD WITH A 14 STATION GAP - HAD TO SET UP CDP SWITCH |
| 7 | SKIP | 105 | SKIP | | | | | | | | | | } SKIPS FOR STACKING PURPOSES |
| 8 | SKIP | 107 | SKIP | | | | | | | | | | |
| 9 | 035 | 109 | 91-102 116-199 | 8 | | 3:43 | | | | | | | |
| 10 | SKIP | 111 | SKIP | | | | | | | | | } SKIPS FOR STACKING PURPOSES | |
| 11 | SKIP | 113 | SKIP | | | | | | | | | | |
| 12 | 036 | 115 | 91-108 122-199 | 8 | | 4:00 | | | | | | | |
| 13 | SKIP | 117 | SKIP | | | | | | | | | } SKIPS FOR STACKING PURPOSES | |
| 14 | SKIP | 119 | SKIP | | | | | | | | | | |
| 15 | 037 | 121 | 91-114 128-199 | 8 | | 4:18 | | | | | | | |
| 16 | EOF | EOF | END OF TAPE FILE | | | | EOF | | | | | EOF #004 BOF #005 REC. #900 ALL ONES 10 SEC. | |
| 17 | SKIP | 123 | SKIP | | | | 005 | | | | | } SKIPS FOR STACKING PURPOSES | |
| 18 | SKIP | 125 | SKIP | | | | | | | | | | |
| 19 | 038 | 127 | 91-120 134-199 | 8 | | 4:42 | | | | | | | |
| 20 | SKIP | 129 | SKIP | | | | | | | | | } SKIPS FOR STACKING PURPOSES | |
| 21 | SKIP | 131 | SKIP | | | | | | | | | | |
| 22 | | | | | | 5:25 | | | | | | SHUT DOWN & HEADED FOR TOWN | |
| 23 | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | |

| | | | | | |
|----------------------------------|---------------------------------------|--|------------------------------------|---|---------------------------------|
| TOTAL SETUPS 2 | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME 30 MINUTES DRIVE IN | SYSTEM NO. MDS 10 |
| SWEEP FREQUENCY 8-32 | SWEEP PATTERN | SWEEPS PER PATTERN 16 | SWEEP PATTERNS PER SETUP | PATCH PATTERN 1 1 2 2 3 3 3 3 2 2 1 1 | |
| GEOPHONES PER PATCH 24 | NO. OF RECORDING PATCHES 96 | TYPE VIBRATOR 44-1100 14-900 | TYPE GEOPHONE ETC EV-22B | FREQUENCY 7.5 Hz | STATION INTERVAL 220' |
| REMARKS | OBSERVER SIMMONS / BROOKS | PARTY MGR. | | | |

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

Petty-Ray Geophysical
Division
Geosource Inc.

| | | | | |
|-------------------------|--|--------------------------------|-----------------------------|-----------------------|
| CLIENT COCORP | AREA CHARLESTON | STATE SOUTH CAROLINA | COUNTY DORCHESTER | DATE 5-3-78 |
| CREW NO. 6834 | TERRAIN MARSHY-SANDY WOODS (DIRT ROAD) | WEATHER CLOUDY | LINE NO. 1 | |

| REC. NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN TIME | TAPE RL. NO. | F I L T E R | | | REMARKS |
|----------|-------------|-----------------|----------------|--------|---------------|--------------|-------------|------|-----------------|---|
| | | | | | | | LOCUT | 60 ~ | AMP VIB DRIVE % | |
| 1 | 933 | PULSE TEST | 6 SEC. | | 7:40 | 005 | OUT | OUT | | |
| 2 | 934 | EINT | 1uv | " | | | | | | OB SET UP BETWEEN 100 155 = 156 |
| 3 | 935 | EINT | NOISE | " | | | | | | CABLE CROSSES H'WAY AT STATION 177 (OPEN DUE TO H'WAY) |
| 4 | 936 | DRD | -3db | " | | | | | | HOUSES AT STATIONS 133-135 |
| 5 | 937 | DRD | -72db | " | | | | | | |
| 6 | 938 | DRD | -78db | " | | | | | | |
| 7 | 939 | DRD | NOISE | " | | | | | | |
| 8 | 953 | SUM TEST | | " | | | | | | |
| 9 | 954 | SUM TEST | | " | | | | | | |
| 10 | 960 | NRS | | " | | | | | | |
| 11 | 961 | NRS | | " | | | | | | |
| 12 | 890 | SIMILARITY | 30 SEC. | 5 | 8:05 | | | | | FIXING 2 WEAK & 1 DEAD STATIONS; CHECKING OUT 4 NOISEY STATIONS |
| 13 | 039 | WIND STRIP | (NO SOURCE) | 6 SEC. | 10:11 | | | | | PLAYBACK - FIXED; BS/FIX - 66db; FINAL 90db |
| 14 | 040 | 133 | 91-126 140-199 | 8 | 10:24 | | | | 50% | STACKED 0'-110' (FIRST HALF) HOUSE; CORRECTED 1-24, 25-48, 49-72, 73-96 |
| 15 | SKIP | 135 | SKIP | SKIP | SKIP | | | | | SKIPS FOR STACKING PURPOSES |
| 16 | SKIP | 137 | SKIP | SKIP | SKIP | | | | | |
| 17 | 041 | 139 | 91-132 146-199 | 8 | 10:47 | | | | | |
| 18 | SKIP | 141 | SKIP | SKIP | SKIP | | | | | |
| 19 | 042 | 143 | 91-136 156-199 | 8 | 11:06 | | | | | 1 CAR RIDING DOWN LINE |
| 20 | 043 | 145 | 91-138 152-199 | 8 | 11:21 | | | | | LOST SYNC ON SUM 13 (STOR-IT BIA) BACKED UP & REPEATING STATION |
| 21 | | | | | | | | | | 1 CAR RIDING DOWN LINE |
| 22 | 044 | 147 | 91-140 154-199 | 8 | 11:57 | | | | | |
| 23 | 045 | 149 | 91-142 156-199 | 8 | 12:06 | | | | | |
| 24 | 046 | 151 | 91-144 158-199 | 8 | 12:21 | | | | | 1 CAR RIDING DOWN LINE; RAN A RAN SWEEP |
| 25 | 047 | 153 | 91-146 160-199 | 8 | 12:38 | | | | | 1 CAR RIDING DOWN LINE |

| | | | | | |
|----------------------------------|---------------------------------------|--|-------------------------------------|---|---------------------------------|
| TOTAL SETUPS 1 | TOTAL SWEEPS 24 | TOTAL COVERAGE 2 1/4 MILES | TOTAL FIELD TIME | DRIVING TIME 30 MINUTES DRIVE OUT | SYSTEM NO. MDS 10 |
| SWEEP FREQUENCY 8-32 | SWEEP PATTERN | SWEEPS PER PATTERN 10 | SWEEP PATTERNS PER SETUP | PATCH PATTERN 1 1 2 2 3 3 x 3 3 2 2 1 1 | |
| GEOPHONES PER PATCH 24 | NO. OF RECORDING PATCHES 96 | TYPE VIBRATOR 44-1100 14-900 | TYPE GEOPHONE ETC EV-22B | FREQUENCY 7.5 Hz | STATION INTERVAL 220' |
| REMARKS | | | OBSERVER SIMMONS / BROOKS | PARTY MGR. <i>Lawrence Brooks</i> | LINE DIR. 5-N |

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Petty-Ray Geophysical
Division
Geosource Inc.**

| | | | | |
|-------------------------|--|--------------------------------|-----------------------------|-----------------------|
| CLIENT COCORP | AREA CHARLESTON | STATE SOUTH CAROLINA | COUNTY DORCHESTER | DATE 5-3-78 |
| CREW NO. 6834 | TERRAIN MARSHY-SANDY-WOODS (DIRT ROAD) | WEATHER CLOUDY | LINE NO. 1 | |

| REC.NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN TIME | TAPE RL.NO. | F I L T E R | | | | REMARKS |
|---------|-------------|-----------------------|----------------|--------|---------------|-------------|-------------|-----|-----|-------|--|
| | | | | | | | LOCUT | 60~ | VIB | PAUSE | |
| 1 | 048 | 155 | 91-148 162-199 | 8 | 5 | 12:54 | 005 | OUT | OUT | 50% | OB BETWEEN STA. 155 & 156 STA 177 OPEN DUE TO H'WAY CORRELATED 1-24, 25-48, 49-72, 73-96 HOUSES AT STATIONS 133-135 |
| 2 | EOF | END OF TAPE FILE #005 | | | | 1:10 | EOF | | | | EOF#005; BOF#006; (CABLE CROSSES H'WAY AT STA. 177 - NOISE DUE TO CARS RUNNING OVER CABLE) |
| 3 | 900 | ALL ONES | | | | 1:23 | 006 | | | | ALL ONES TEST |
| 4 | 049 | WIND STRIP | 91-150 164-199 | 8 | | 1:27 | | | | | 6 SEC WIND STRIP (NO SOURCE); PLAYBACK-FIXED; BS/FIX 66db; Final 90db |
| 5 | 050 | 157 | 91-150 164-199 | 8 | | 1:30 | | | | | |
| 6 | 051 | 159 | 91-152 166-199 | 8 | | 1:46 | | | | | GETTING LOW FREQ. ROLL AT E.O.L. DUE TO H'WAY TRAFFIC |
| 7 | 052 | 161 | 91-154 168-199 | 8 | | 2:01 | | | | | |
| 8 | 053 | 163 | 91-156 170-199 | 8 | | 2:17 | | | | | 1 CAR RIDING DOWN LINE |
| 9 | 054 | 165 | 91-158 172-199 | 8 | | 2:34 | | | | | |
| 10 | 055 | 167 | 91-160 174-199 | 8 | | 2:50 | | | | | |
| 11 | 056 | 169 | 91-162 176-199 | 8 | | 3:15 | | | | | WAITING FOR SCHOOL BUS TO CLEAR LINE; |
| 12 | 057 | 171 | 91-164 178-199 | 8 | | 3:32 | | | | | |
| 13 | 058 | 173 | 91-166 180-199 | 8 | | 3:50 | | | | | 1 CAR RIDING DOWN LINE |
| 14 | 059 | 175 | 91-168 182-199 | 8 | | 4:07 | | | | | |
| 15 | 060 | 177 | 91-170 184-199 | 8 | | 4:24 | | | | | |
| 16 | 061 | 179 | 91-172 186-199 | 8 | | 4:40 | | | | | 1 CAR RIDING DOWN LINE; STARTING A LIGHT DRIZZLING RAIN |
| 17 | 062 | 181 | 91-174 188-199 | 8 | | 5:00 | | | | | |
| 18 | EOF | END TAPE FILE # 006 | | | | 5:16 | EOF | | | | EOF#006 BOF#007 |
| 19 | 900 | ALL ONES | | | | 5:28 | 007 | | | | ALL ONES TEST (10 SEC) |
| 20 | 063 | 183 | 91-176 180-199 | 8 | | 5:25 | | | | | 1 TRUCK RIDING DOWN LINE |
| 21 | 064 | 185 | 91-178 192-199 | 8 | | 5:42 | | | | | |
| 22 | | | | | | 6:05 | | | | | SHUT DOWN & HEADED FOR TOWN |
| 23 | | | | | | | | | | | |
| 24 | | | | | | | | | | | |
| 25 | | | | | | | | | | | |

| | | | | | |
|----------------------------------|---------------------------------------|--|--|---|---------------------------------|
| TOTAL SETUPS 1 | TOTAL SWEEPS 24 | TOTAL COVERAGE 2 1/4 miles | TOTAL FIELD TIME | DRIVING TIME 30 MINUTES DRIVE IN | SYSTEM NO. MDS10 |
| SWEEP FREQUENCY 8-32 | SWEEP PATTERN | SWEEPS PER PATTERN 16 | SWEEP PATTERNS PER SETUP | PATCH PATTERN 1 1 2 2 3 3 3 3 2 2 1 1 | |
| GEOPHONES PER PATCH 24 | NO. OF RECORDING PATCHES 96 | TYPE VIBRATOR 44-1100 14-90C | TYPE GEOPHONE ETL EV-228 | FREQUENCY 7.5 HZ | STATION INTERVAL 220' |
| REMARKS | OBSERVER SIMMONS / BROOKS | | PARTY MGR. <i>Lawrence O. Davis</i> | | |

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Petty-Ray Geophysical
Division
Geosource Inc.**

| | | | | |
|-------------------------|---|--------------------------------|-----------------------------|-----------------------|
| CLIENT COCORP | AREA CHARLESTON | STATE SOUTH CAROLINA | COUNTY DORCHESTER | DATE 5-4-78 |
| CREW NO. 6834 | TERRAIN MARSITY-SANDY WOODS (DIRT ROAD) | WEATHER RAINY | LINE NO. 1 | |

| REC.NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN TIME | TAPE RL.NO. | F I L T E R | | | REMARKS |
|---------|-------------|------------------------|---------|--------|---------------------|----------------|-------------|------|-------------|--|
| | | | | | | | LOCUT | 60 ~ | AMP PRIO | |
| 1 | 933 | Pulse TEST | 6sec. | | 7:45 | 007 | OUT | OUT | 70 | |
| 2 | 934 | EINT | " | | | | | | | OB SET UP BETWEEN STATIONS 155 & 156 |
| 3 | 935 | EINT | " | | | | | | | STA. 177 OPEN BECAUSE OF H'WAY - CABLE CROSSES H'WAY THERE |
| 4 | 936 | DRD | " | | | | | | | HOUSES AT STATIONS 133-135 |
| 5 | 937 | DRD | " | | | | | | | |
| 6 | 938 | DRD | " | | | | | | | NOISE SPIKES COMING IN WHEN CARS RUN OVER CABLE CROSSING |
| 7 | 939 | DRD | " | | | | | | | H'WAY AT STA. 177 |
| 8 | 953 | SUM TEST | " | | | | | | | |
| 9 | 954 | SUM TEST | " | | | | | | | |
| 10 | 960 | NRJ | " | | | | | | | VIB DOWN DUE TO T/O CARD (NO SPARE) |
| 11 | 961 | NRJ | " | | | | | | | |
| 12 | 890 | SIMILARITY | 30sec. | 4 | 8:10 | | | | | WAITING FOR THUNDERSTORM TO PASS OVER (LIGHTENING) |
| 13 | 065 | WIND STRIP (NO SOURCE) | 6sec. | | 9:56 | | | | | PLAYBACK - FIXED ; BS/FIX - 66db ; FINAL 90db |
| 14 | 066 | 187 | | 8 | 10:00 | | | | | CORRELATED 1-24, 25-48, 49-72, 73-96 |
| 15 | 067 | 189 | | 8 | 10:25 | | | | | RAN A RAW SWEEP |
| 16 | 068 | 191 | | 8 | 10:46 | | | | | |
| 17 | 069 | 193 | | 8 | 11:06 | | | | | |
| 18 | 070 | 195 | | 10 | 11:26 | | | | | CORRELATED 1-24, 25-48, 49-72, 73-96 ; WIND PICKING UP |
| 19 | 071 | WIND STRIP (NO SOURCE) | 6sec. | | 11:39 | | | | | PLAYBACK - FIXED ; BS/FIX - 66db ; FINAL 90db |
| 20 | 072 | 197 | | 12 | 11:42 | | | | | |
| 21 | 073 | 199 | | 14 | 11:58 | | | | | |
| 22 | EOL | END OF LINE | | | | EOL | | | | EOL #007 END OF LINE |
| 23 | | | | | 12:30 | | | | | SHUT DOWN & HEADED FOR TOWN |
| 24 | | | | | | | | | | |
| 25 | | | | | | | | | | |

END OF LINE!

| | | | | | |
|-----------------------------------|---------------------------------------|--|------------------------------------|---|---------------------------------|
| TOTAL SETUPS 1 | TOTAL SWEEPS 7 | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME 30 MINUTES DRIVE IN 30 MINUTES DRIVE OUT | SYSTEM NO. MDS10 |
| SWEEP FREQUENCY 8-32 | SWEEP PATTERN | SWEEPS PER PATTERN 16 | SWEEP PATTERNS PER SETUP | PATCH PATTERN 1 1 2 2 3 3, 3 3 2 2 1 1 | |
| GEOPHONES PER PATCH 24 | NO. OF RECORDING PATCHES 96 | TYPE VIBRATOR 44-1100 14-900 | TYPE GEOPHONE ETC EV-22B | FREQUENCY 7.5 Hz | STATION INTERVAL 220' |
| REMARKS GROUND VERY WET | OBSERVER SIMMONS / BROOKS | PARTY MGR. Lawrence O. Davis | LINE DIR. 1 TO 24 S-N | | |

EXTENTION

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

Petty-Ray Geophysical
Division
Geosource Inc.

| | | | | |
|-------------------------|-------------------------------------|--------------------------------|--------------------------------|------------------------|
| CLIENT COCORP | AREA CHARLESTON | STATE South Carolina | COUNTY DORCHESTER | DATE 6/15/78 |
| CREW NO. 6834 | TERRAIN SAND ROAD (WOODS) | WEATHER CLEAR | LINE NO. 1 (one) EXT | |

| REC. NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN TIME | TAPE RL. NO. | F L T E R | | REMARKS | |
|----------|-------------|-----------------|------------------|--------|---------------|--------------|-----------|------|---------|--|
| | | | | | | | LOCUT | 60 ~ | | |
| 1 | 933 | Pulse test | 1-96 | 6 sec | 5 | 2:00 | 048 | OUT | OUT | RECORDER SET UP BETWEEN SP 23474 |
| 2 | 934 | EINT | 1uv | " | | | | | | LINE TO BE 3 LOT FROM HIGH #'S TO LOW #'S |
| 3 | 935 | EINT | Noise | " | | | | | | |
| 4 | 936 | DRD | -3db | " | | | | | | WAITING FOR CONSTRUCTION WORK TO STOP |
| 5 | 937 | DRD | -72 db | " | | | | | | |
| 6 | 938 | DRD | -78 db | " | | | | | | |
| 7 | 939 | DRD | Noise | " | | | | | | |
| 8 | 953 | Sum test | | " | | | | | | |
| 9 | 954 | Sum test | | " | | | | | | |
| 10 | 960 | NRJ | | " | | | | | | |
| 11 | 961 | NRJ | | " | | | | | | |
| 12 | 890 | Similarity | | 31 sec | 5 | | | | | 50% |
| 13 | 001 | WIND STRIP | CHANNELS 1-48 at | 6 SEC | | 4:55 | | | | |
| 14 | 002 | 41 | 143-48 | 3 | | 5:00 | | | | 1-96 CORRELATION TAKEN ON FILE # 002 |
| 15 | 003 | 38 | 140-45 | 6 | | 6:14 | | | | PROBLEM WITH CORRELATOR |
| 16 | 004 | 35 | 137-42 | 9 | | 6:30 | | | | |
| 17 | 005 | 32 | 134-39 | 12 | | 6:42 | | | | VP 32 STACKED ON FIRST HALF DUE TO HOUSE |
| 18 | 006 | 29 | 131-36 | 15 | | 7:05 | | | | |
| 19 | 007 | 26 | 128-33 | 18 | | 7:50 | | | | CABLE PROBLEMS |
| 20 | 008 | 23 | 125-30 | 21 | | 8:07 | | | | |
| 21 | 009 | 20 | 122-27 | 24 | | 8:22 | | | | |
| 22 | 010 | 17 | 119-24 | 27 | | 8:38 | | | | |
| 23 | 011 | 14 | 116-21 | 30 | | 8:53 | | | | |
| 24 | 012 | 11 | 113-18 | 33 | | 9:09 | 048 | | | EOF # 012 |
| 25 | 013 | WIND STRIP | CHANNELS 1-48 | 6 sec | | 9:30 | 049 | | | NEW TAPE REEL # 049 B.O.F. 013 (FILE # 900 10sec. ALL ONE'S) |

| | | | | | |
|---------------------|--------------------------|--------------------|--------------------------|-----------------|------------------|
| TOTAL SETUPS | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME | SYSTEM NO. |
| | | | | 20 min drive in | MDS 10 |
| SWEEP FREQUENCY | SWEEP PATTERN | SWEEPS PER PATTERN | SWEEP PATTERNS PER SETUP | PATCH PATTERN | |
| 8-32 | | 16 | | 112233 x 332211 | |
| GEOPHONES PER PATCH | NO. OF RECORDING PATCHES | TYPE VIBRATOR | TYPE GEOPHONE | FREQUENCY | STATION INTERVAL |
| 24 | 96 | 44-1100 115-900 | ETC EU-22B | 7.5 Hz | 220' |
| REMARKS | OBSERVER | PARTY (MGR) | | | |
| | SIMMONS | Lawrence O. Lewis | | | |

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Petty-Ray Geophysical
Division
Geosource Inc.**

| | | | | |
|-------------------------|-----------------------------|-------------------------|-----------------------------|------------------------|
| CLIENT COCORP | AREA CHARLESTON | STATE SC. | COUNTY DORCHESTER | DATE 6/15/78 |
| CREW NO. 6834 | TERRAIN SAND ROAD | WEATHER CLEAR | LINE NO. # 1 EXT. | |

| REC. NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | TAMP GAIN TIME | TAPE RL. NO. | F I L T E R | | | REMARKS | |
|----------|-------------|-----------------|----------------|--------|----------------------|-----------------|-------------|------|-----------|---------|--|
| | | | | | | | LOCUT | 60 ~ | 50% DRIVE | | |
| 1 | 014 | 8 | 110-15 | 30 | 5 | 9:33 | 049 | Out | Out | 50% | RAW SWEEP TAKEN ON FILE # 014 |
| 2 | 015 | 5 | 107-12 | 39 | | 10:00 | | | | | |
| 3 | 016 | 2 | 104-9 | 42 | | 10:16 | | | | | |
| 4 | 017 | 998 | 101-6 | 45 | | 10:32 | | | | | |
| 5 | 018 | 995 | 98-3 | 48 | | 11:30 | | | | | RECORDER MOVE (BAD CABLE, REPLACING) |
| 6 | 019 | 998 | 92-999 | 37 | | 11:03 | | | | | O.B. SET UP BETWEEN S.P.'S #19 & 20 TRACES 1-4 OPEN |
| 7 | 020 | 999 | 92-998 | 240 | | 1:18 | | | | | TRACE #1 OPEN |
| 8 | 021 | 986 | 89-993 | 3 | | 1:35 | | | | | |
| 9 | 022 | 983 | 86-990 | 6 | | 1:52 | | | | | |
| 10 | 023 | 980 | 83-987 | 9 | | 2:10 | | | | | |
| 11 | 024 | 977 | 80-984 | 12 | | 2:26 | | | | | |
| 12 | 025 | 974 | 77-981 | 15 | | 2:41 | | | | | |
| 13 | 026 | 971 | 74-978 | 18 | | 3:00 | 049 | | | | EOF # 026 |
| 14 | 027 | 968 | 71-975 | 21 | | 3:22 | 050 | | | | NEW REEL # 050 BOF # 027 FILE # 900 10 SEC. RLC |
| 15 | 028 | 965 | 68-972 | 24 | | 3:36 | | | | | |
| 16 | 029 | 962 | 65-969 | 27 | | 3:52 | | | | | |
| 17 | 030 | 959 | 62-966 | 30 | | 4:09 | | | | | |
| 18 | 031 | 956 | 59-963 | 33 | | 4:25 | | | | | |
| 19 | 032 | 953 | 56-960 | 36 | | 4:39 | | | | | |
| 20 | 033 | 950 | 53-957 | 39 | | 4:54 | | | | | |
| 21 | 034 | 969 | 57-976 962-948 | 35 | | 5:15 | | | | | Backing up to BUILD up stack shooting through SPREAD |
| 22 | 035 | 968 | 58-975 961-948 | 35 | | 5:42 | | | | | |
| 23 | 036 | 967 | 57-974 960-948 | 35 | | 5:58 | | | | | |
| 24 | 037 | 966 | 57-973 959-948 | 35 | | 6:13 | | | | | |
| 25 | 038 | 965 | 57-972 958-948 | 35 | | 6:28 | | | | | |

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|----------------------------------|---------------------------------------|--|-------------------------------------|---|--------------------------------|
| TOTAL SETUPS | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME | SYSTEM NO. MDS-10 |
| SWEEP FREQUENCY 8-32 | SWEEP PATTERN | SWEEPS PER PATTERN 16 | SWEEP PATTERNS PER SETUP | PATCH PATTERN 112233 X 332211 | |
| GEOPHONES PER PATCH 24 | NO. OF RECORDING PATCHES 96 | TYPE VIBRATOR 4-2-1000 1-2-900 | TYPE GEOPHONE ETC. EV-22B | FREQUENCY 7.5 Hz | STATION INTERVAL 220 |
| REMARKS | | OBSERVER SIMMONS | | PARTY MGR. Lawrence O. Davis | |

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

Petty-Ray Geophysical
Division
Geosource Inc.

| | | | | |
|-------------------------|------------------------------|-------------------------|-----------------------------|---------------------------------|
| CLIENT COCORP | AREA Charleston | STATE S.C. | COUNTY DORCHESTER | DATE 6/12/78 |
| CREW NO. 6834 | TERRAIN SANDY ROAD | WEATHER CLEAR | | LINE NO. #/EXT #1/EXT |

| REC.NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP-GAIN | TAPES RL.NO. | F I L T E R | | | REMARKS |
|---------|-------------|-----------------|---------|--------|----------|--------------|-------------|-----|-----------|--|
| | | | | | | | LOCUT | 60~ | 50% Drive | |
| 1 | 964 | 57-971 951-948 | 35 | 2 | 6:43 | 050 | Out | Out | 50% | |
| 2 | 963 | 57-970 956-948 | 35 | | 7:04 | 050 | | | | EOF # 039 039 |
| 3 | 962 | 57-969 955-948 | 35 | | SKIP | 051 | SKIP | | | NEW REEL #051 B.O.F. 040 FILE #0010SEC. ALL ONE'S UP# 962 SKIPPED Due to houses UP# 961 STACKED ON LAST HALF |
| 4 | 961 | 57-968 954-948 | 35 | | 7:20 | 0 | | | | |
| 5 | 960 | 57-967 953-948 | 35 | | 7:34 | | | | | |
| 6 | 959 | 57-966 952-948 | 35 | | 7:49 | | | | | EO.L. #1 EXT |
| 7 | 958 | 57-965 951-948 | 35 | | 8:05 | 051 | | | | 1-96 Correlation on FILE #CX45 |
| 8 | 957 | 57-964 950-948 | 35 | | 8:20 | 051 | | | 50% | Finished Carolina Program Headed for town |
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END OF LINE 1 EXT.

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|----------------------------------|---------------------------------------|--|------------------------------------|---------------------------------------|---------------------------------|
| TOTAL SETUPS | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME | SYSTEM NO. |
| SWEEP FREQUENCY 8-32 | SWEEP PATTERN | SWEEPS PER PATTERN 16 | SWEEP PATTERNS PER SETUP | PATCH PATTERN 112233x332211 | |
| GEOPHONES PER PATCH 24 | NO. OF RECORDING PATCHES 96 | TYPE VIBRATOR 4-2-1400 1-2-900 | TYPE GEOPHONE ETH EV-22B | FREQUENCY 7.5 Hz | STATION INTERVAL 220' |
| REMARKS | OBSERVER SIMMONS | | PARTY (MSR) <i>[Signature]</i> | | |