

# OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

**Petty-Ray Geophysical, Inc.**  
Subsidiary of Geosource International Incorporated

| CLIENT<br><b>CORNELL UNIV.</b>                |             |                                       | AREA                |                                      |          | STATE<br><b>TEX.</b>                    |                          | COUNTY<br><b>HARDEMAN</b> |                                | DATE<br><b>3/24/75</b>          |    |   |   |      |
|---|-------------|---------------------------------------|---------------------|--------------------------------------|----------|---|--------------------------|---------------------------|--------------------------------|---------------------------------|----|---|---|------|
| CREW NO.<br><b>6834</b>                       |             |                                       | TERRAIN             |                                      |          | WEATHER<br><b>CLEAR WITH LIGHT WIND</b> |                          |                           |                                | LINE NO.<br><b>2</b>            |    |   |   |      |
| REC.NO.                                       | SWEEP POINT | PATCH LOCATIONS                       | CDP SW.             | NO VIB                               | AMP GAIN | TAPE RL.NO.                             | F I L T E R              |                           | RE MARKS                       | TIME                            |    |   |   |      |
|   |             |                                       |                     |                                      |          |   | LOCUT                    | 60 ~ AMP                  |                                |                                 |    |   |   |      |
| 8ms SAMPLING, 30 SEC REC                      |             |                                       |                     |                                      |          |   |                          |                           |                                | NOISE REJECT IN USE             |    |   |   |      |
| 1   | 900         | ALL 1'S                               | 15 SEC REC.         |                                      |          |   |                          |                           |                                |                                 |    |   |   |      |
| 2   | 932         | SIMILARITY                            | 10-32 Hz 15 SEC SWP |                                      |          |   |                          |                           |                                | LAYING OUT + BURYING SPREAD     |    |   |   |      |
| 3   | 932         | "                                     | "                   |                                      |          |   |                          |                           |                                |                                 |    |   |   |      |
| 4   |             | CHANNELS                              |                     |                                      | DRIVE    |   |                          | ALIAS                     |                                |                                 |    |   |   |      |
| 5   |             | 1-24                                  | 25-48               |                                      |          |   |                          |                           | VIB GAP                        | REC. TRUCK BETWEEN 75+76        |    |   |   |      |
| 6   | 91          | 28                                    | 75-52               | 51-28                                | 49       | 5/16                                    | 30%                      | 4                         | OUT                            | OUT                             | 31 | 28-31                                     | - HIGHLINE OR ELECTRIC FENCE INTERFERENCE | 2:44 |
| 7   | 92          | 30                                    | 75-52               | 51-28                                | 49       |   |                          |                           |                                |                                 |    | 29-31                                     | - LIVE ELECTRIC FENCE                     | 3:00 |
| 8   | 93          | 32                                    | 75-52               | 51-28                                | 49       |   |                          |                           |                                |                                 |    | 31-33                                     | WIND VELOCITY HIGHER                      | 3:10 |
| 9   | 94          | 34                                    | 75-52               | 51-28                                | 49       |   | 75%                      |                           |                                |                                 |    | 33-35                                     |   | 3:20 |
| 10  | 95          | 36                                    | 75-52               | 51-28                                | 49       |   |                          |                           |                                |                                 |    | 35-37                                     |   | 3:31 |
| 11  | 96          | 38                                    | 75-52               | 51-28                                | 49       |   |                          |                           |                                |                                 |    | 37-39                                     |   | 3:43 |
| 12  | 97          | 40                                    | 75-52               | 51-28                                | 49       |   |                          |                           |                                |                                 |    | 39-41                                     |   | 3:54 |
| 13  | 98          | 42                                    | 75-52               | 51-28                                | 49       |   |                          |                           |                                |                                 |    | 41-43                                     |   | 4:06 |
| 14  | 99          | 44                                    | 75-52               | 51-28                                | 49       |   |                          |                           |                                |                                 |    | 43-45                                     |   | 4:17 |
| 15  | 100         | 46                                    | 75-52               | 51-28                                | 49       |   |                          |                           |                                |                                 |    | 45-47                                     |   | 4:28 |
| 16  | 101         | 48                                    | 75-52               | 51-28                                | 49       |   |                          |                           |                                |                                 |    | 47-49                                     | RINR                                      | 4:39 |
| 17  | 102         | 50                                    | 75-52               | 51-28                                | 49       |   |                          |                           |                                |                                 |    | 49-51                                     |   | 4:49 |
| 18  | 103         | 76                                    | 75-52               | 51-28                                | 49       |   |                          |                           |                                |                                 |    | 75  | 1 <sup>st</sup> HALF - CROSSROADS         | 5:05 |
| 19  | 104         | 78                                    | 75-52               | 51-28                                | 49       |   |                          |                           |                                |                                 |    | 76-78                                     | <del>NORMAL OFFSET</del>                  | 5:16 |
| 20  | 105         | 80                                    | 76-53               | 52-29                                | 48       |   |                          |                           |                                |                                 |    |   | NORMAL OFFSET RINR                        | 5:27 |
| 21  | 106         | 82                                    | 78-55               | 54-31                                | 46       | 4/16                                    |                          |                           |                                |                                 |    |   | 1 <sup>st</sup> HALF BRIDGE               | 5:39 |
| 22  | 107         | 84                                    | 80-57               | 56-33                                | 44       |   |                          |                           |                                |                                 |    |   | GO AROUND WEAK BRIDGE; 2 VIBS DOWN, RINR  | 6:35 |
| 23  | 108         | 50                                    | 101-78              | 77-54                                | 23       | 5/16                                    |                          |                           |                                |                                 |    |   | "PUSHING CABLE" RINR                      | 7:18 |
| 24  | 109         | 52                                    | 103-80              | 79-56                                | 21       |   |                          |                           |                                |                                 |    |   |   | 7:29 |
| 25  | 110         | 54                                    | 105-82              | 81-58                                | 19       |   |                          |                           |                                |                                 |    |   |   | 7:42 |
| TOTAL SETUPS                                  |             | TOTAL SWEEPS                          |                     | TOTAL COVERAGE                       |          |   | TOTAL FIELD TIME         |                           |                                | DRIVING TIME                    |    | SYSTEM NO.<br><b>MDS 8</b>                |   |      |
| SWEEP FREQUENCY<br><b>10-32 Hz 15 SEC SWP</b> |             | SWEEP PATTERN<br><b>INLINE</b>        |                     | SWEEPS PER PATTERN<br><b>16</b>      |          |   | SWEEP PATTERNS PER SETUP |                           | PATCH PATTERN<br><b>INLINE</b> |                                 |    |   |   |      |
| GEOPHONES PER PATCH<br><b>24</b>              |             | NO. OF RECORDING PATCHES<br><b>48</b> |                     | TYPE VIBRATOR<br><b>3Y1100 2Y900</b> |          | TYPE GEOPHONE<br><b>EV22B</b>           |                          | FREQUENCY<br><b>7.5</b>   |                                | STATION INTERVAL<br><b>330'</b> |    | LINE DIR. 48-1<br>1 TO 24<br><b>W → E</b> |   |      |
| REMARKS                                       |             |                                       |                     |                                      |          | OBSERVER                                |                          |                           | PARTY MGR.                     |                                 |    |   |   |      |

# OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

**Petty-Ray Geophysical, Inc.**  
Subsidiary of Geosource International Incorporated

|                               |         |                      |                           |                        |
|-------------------------------|---------|----------------------|---------------------------|------------------------|
| CLIENT<br><i>CORNELL UNIV</i> | AREA    | STATE<br><i>TEX.</i> | COUNTY<br><i>HARDEMAN</i> | DATE<br><i>3/24/75</i> |
| CREW NO.<br><i>6834</i>       | TERRAIN | WEATHER              |                           | LINE NO.<br><i>2</i>   |

| REC. NO.  | SWEEP POINT | PATCH LOCATIONS |              | CDP SW.   | NO VIB      | AMP GAIN   | TAPE RL. NO. | FILTERS    |            |           | REMARKS  |
|-----------|-------------|-----------------|--------------|-----------|-------------|------------|--------------|------------|------------|-----------|--|
|           |             | <i>7-24</i>     | <i>25-48</i> |           |             |            |              | LOCUT      | 60~        | AMP       |  |
| <i>1</i>  | <i>56</i>   | <i>107-84</i>   | <i>83-60</i> | <i>17</i> | <i>5/16</i> | <i>75%</i> | <i>4</i>     | <i>OUT</i> | <i>OUT</i> | <i>31</i> | <i>8ms SAMPLING, 30 SEC REC, NOISE REJECT IN USE</i> |
| <i>2</i>  | <i>58</i>   | <i>109-86</i>   | <i>85-62</i> | <i>15</i> |             |            |              |            |            |           | <i>TIME 7:55</i>                                     |
| <i>3</i>  | <i>60</i>   | <i>111-88</i>   | <i>87-64</i> | <i>13</i> |             |            |              |            |            |           | <i>8:07</i>  |
| <i>4</i>  | <i>62</i>   | <i>113-90</i>   | <i>89-66</i> | <i>11</i> |             |            |              |            |            |           | <i>8:19</i>  |
| <i>5</i>  |             |                 |              |           |             |            |              |            |            |           | <i>8:41</i>  |
| <i>6</i>  |             |                 |              |           |             |            |              |            |            |           |  |
| <i>7</i>  |             |                 |              |           |             |            |              |            |            |           |  |
| <i>8</i>  |             |                 |              |           |             |            |              |            |            |           |  |
| <i>9</i>  |             |                 |              |           |             |            |              |            |            |           |  |
| <i>10</i> |             |                 |              |           |             |            |              |            |            |           |  |
| <i>11</i> |             |                 |              |           |             |            |              |            |            |           |  |
| <i>12</i> |             |                 |              |           |             |            |              |            |            |           |  |
| <i>13</i> |             |                 |              |           |             |            |              |            |            |           |  |
| <i>14</i> |             |                 |              |           |             |            |              |            |            |           |  |
| <i>15</i> |             |                 |              |           |             |            |              |            |            |           |  |
| <i>16</i> |             |                 |              |           |             |            |              |            |            |           |  |
| <i>17</i> |             |                 |              |           |             |            |              |            |            |           |  |
| <i>18</i> |             |                 |              |           |             |            |              |            |            |           |  |
| <i>19</i> |             |                 |              |           |             |            |              |            |            |           |  |
| <i>20</i> |             |                 |              |           |             |            |              |            |            |           |  |
| <i>21</i> |             |                 |              |           |             |            |              |            |            |           |  |
| <i>22</i> |             |                 |              |           |             |            |              |            |            |           |  |
| <i>23</i> |             |                 |              |           |             |            |              |            |            |           |  |
| <i>24</i> |             |                 |              |           |             |            |              |            |            |           |  |
| <i>25</i> |             |                 |              |           |             |            |              |            |            |           |  |

|  |                                       |                                     |                               |                                |                                 |
|--|---------------------------------------|-------------------------------------|-------------------------------|--------------------------------|---------------------------------|
| TOTAL SETUPS                               | TOTAL SWEEPS                          | TOTAL COVERAGE                      | TOTAL FIELD TIME              | DRIVING TIME                   | SYSTEM NO.<br><i>MDS 8</i>      |
| SWEEP FREQUENCY<br><i>10-32 15 SEC SWP</i> | SWEEP PATTERN<br><i>INLINE</i>        | SWEEPS PER PATTERN<br><i>INLINE</i> | SWEEP PATTERNS PER SETUP      | PATCH PATTERN<br><i>INLINE</i> |                                 |
| GEOPHONES PER PATCH<br><i>24</i>           | NO. OF RECORDING PATCHES<br><i>48</i> | TYPE VIBRATOR<br><i>51100 29900</i> | TYPE GEOPHONE<br><i>EV22B</i> | FREQUENCY<br><i>7.5</i>        | STATION INTERVAL<br><i>330'</i> |
| REMARKS                                    | OBSERVER                              |                                     | PARTY MGR.                    |                                |                                 |

# OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

**Petty-Ray Geophysical, Inc.**  
Subsidiary of Geosource International Incorporated

|                                |                             |                                 |                           |                        |
|--------------------------------|-----------------------------|---------------------------------|---------------------------|------------------------|
| CLIENT<br><b>CORNELL UNIV.</b> | AREA                        | STATE<br><b>TEX.</b>            | COUNTY<br><b>HARDEMAN</b> | DATE<br><b>3/25/75</b> |
| CREW NO.<br><b>6834</b>        | TERRAIN<br><b>DIRT ROAD</b> | WEATHER<br><b>CLEAR + WINDY</b> |                           | LINE NO.<br><b>2</b>   |

| REC. NO. | SWEEP POINT | PATCH LOCATIONS    | CDP SW. | NO VIB | TAPES | TAPE RL. NO. | FILTER |     |     | REMARKS  |
|----------|-------------|--------------------|---------|--------|-------|--------------|--------|-----|-----|--|
|          |             |                    |         |        |       |              | LOCUT  | 60~ | AMP |  |
| 1        | 932         | VOID - BAD SPOT ON |         |        |       |              |        |     |     | 8MS SAMPLE 30 SEC REC. NOISE REJECT IN USE         |
| 2        | 932         | SIMILARITY 10-32   |         |        |       |              |        |     |     |  |
| 3        | 932         | "                  |         |        |       |              |        |     |     |  |
| 4        |             | CHANNELS           |         |        |       |              |        |     |     |  |
| 5        |             | 1-24 25-48         |         |        |       |              |        |     |     | RINR   |
| 6        | 115         | 64 115-92 91-68    | 29      | 4/16   | 75%   | 4            | OUT    | OUT | 31  | REC. TRUCK BET 95-96° LEAKAGE ON STA. 97-100 12:07 |
| 7        | 116         | 66 117-94 93-70    | 27      |        |       |              |        |     |     | CABLE IN CUT-OFF; 2 VIB. DOWN 12:20                |
| 8        |             |                    |         |        |       |              |        |     |     |  |
| 9        |             |                    |         |        |       |              |        |     |     |  |
| 10       |             |                    |         |        |       |              |        |     |     |  |
| 11       |             |                    |         |        |       |              |        |     |     |  |
| 12       |             |                    |         |        |       |              |        |     |     |  |
| 13       |             |                    |         |        |       |              |        |     |     |  |
| 14       |             |                    |         |        |       |              |        |     |     |  |
| 15       |             |                    |         |        |       |              |        |     |     |  |
| 16       |             |                    |         |        |       |              |        |     |     |  |
| 17       |             |                    |         |        |       |              |        |     |     |  |
| 18       |             |                    |         |        |       |              |        |     |     |  |
| 19       |             |                    |         |        |       |              |        |     |     |  |
| 20       |             |                    |         |        |       |              |        |     |     |  |
| 21       |             |                    |         |        |       |              |        |     |     |  |
| 22       |             |                    |         |        |       |              |        |     |     |  |
| 23       |             |                    |         |        |       |              |        |     |     |  |
| 24       |             |                    |         |        |       |              |        |     |     |  |
| 25       |             |                    |         |        |       |              |        |     |     |  |

EOT

|   |                                       |                                       |                                 |                                |                                |
|---|---------------------------------------|---------------------------------------|---------------------------------|--------------------------------|--------------------------------|
| TOTAL SETUPS                                  | TOTAL SWEEPS                          | TOTAL COVERAGE                        | TOTAL FIELD TIME                | DRIVING TIME                   | SYSTEM NO.<br><b>MOS 8</b>     |
| SWEEP FREQUENCY<br><b>10-32 HZ 15 SEC SWP</b> | SWEEP PATTERN<br><b>INLINE</b>        | SWEEPS PER PATTERN<br><b>16</b>       | SWEEP PATTERNS PER SETUP        | PATCH PATTERN<br><b>INLINE</b> |                                |
| GEOPHONES PER PATCH<br><b>24</b>              | NO. OF RECORDING PATCHES<br><b>48</b> | TYPE VIBRATOR<br><b>3Y1100, 2Y900</b> | TYPE GEOPHONE<br><b>REV 22B</b> | FREQUENCY<br><b>7.5</b>        | STATION INTERVAL<br><b>330</b> |
| REMARKS                                       | OBSERVER                              |                                       | PARTY MGR.                      |                                |                                |

# OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

**Petty-Ray Geophysical, Inc.**  
Subsidiary of Geosource International Incorporated

|                               |         |                                     |                           |                        |
|-------------------------------|---------|-------------------------------------|---------------------------|------------------------|
| CLIENT<br><b>CORNELL UNIV</b> | AREA    | STATE<br><b>TEX.</b>                | COUNTY<br><b>HARDEMAN</b> | DATE<br><b>0/25/75</b> |
| CREW NO.<br><b>6834</b>       | TERRAIN | WEATHER<br><b>CLEAR &amp; WINDY</b> |                           | LINE NO.<br><b>2</b>   |

| REC.NO. | SWEEP POINT | PATCH LOCATIONS<br>7-24 25-48 | CDP SW. | NO VIB | AMP GAIN | TAPES RL.NO. | F I L T E R A U S |      | REMARKS | TIME                                       |      |
|---------|-------------|-------------------------------|---------|--------|----------|--------------|-------------------|------|---------|--|------|
|         |             |                               |         |        |          |              | LOCUT             | 60 ~ |         |  |      |
| 1       | 117         | 68 119-96 95-72               | 25      | 4/16   | 25%      | 5            | OUT               | OUT  | 31      | 8MS SAMPLE 30 SEC. REL NOISE REJECT IN USE | 1:28 |
| 2       | 118         | 70 121-98 97-74               | 23      |        |          |              |                   |      |         |  | 1:40 |
| 3       | 119         | 72 123-100 99-76              | 21      |        |          |              |                   |      |         |  | 1:57 |
| 4       | 120         | 74 125-102 101-78             | 19      |        |          |              |                   |      |         | 1 <sup>st</sup> HALF - INTERSECTION        | 2:05 |
| 5       | 121         | 76 127-104 103-80             | 17      |        |          |              |                   |      |         |  | 2:19 |
| 6       | 122         | 78 129-106 105-82             | 15      |        |          |              |                   |      |         |  | 2:30 |
| 7       | 123         | 80 131-108 107-84             | 13      |        |          |              |                   |      |         |  | 2:40 |
| 8       | 124         | 82 133-110 109-86             | 11      |        |          |              |                   |      |         |  | 2:51 |
| 9       | 125         | 84 135-112 111-88             | 9       |        |          |              |                   |      |         | VIB GO AROUND BRIDGE                       | 3:25 |
| 10      | 126         | 86 137-114 113-90             | 7       |        |          |              |                   |      |         |  | 3:35 |
| 11      |             |                               |         |        |          |              |                   |      |         | VIB GAP                                    |      |
| 12      | 127         | 98 137-114 113-90             | 7       |        |          |              |                   |      |         | 97-99 SHOOT THRU CABLE RINR                | 3:51 |
| 13      | 128         | 99 137-114 113-90             | 9       |        |          |              |                   |      |         | 98-100                                     | 4:02 |
| 14      | 129         | 100 137-114 113-90            | 7       |        |          |              |                   |      |         | 99-101                                     | 4:11 |
| 15      | 130         | 101 137-114 113-90            | 7       |        |          |              |                   |      |         | 100-102                                    | 4:21 |
| 16      | 131         | 102 137-114 113-90            | 7       |        | 30%      |              |                   |      |         | 101-103                                    | 4:33 |
| 17      | 132         | 103 137-114 113-90            | 7       |        |          |              |                   |      |         | 102-104 1 <sup>st</sup> HALF WINDMILL      | 4:42 |
| 18      | 133         | 104 137-114 113-90            | 7       |        |          |              |                   |      |         | 103-105 2 <sup>nd</sup> HALF               | 4:54 |
| 19      | 134         | 105 137-114 113-90            | 7       |        |          |              |                   |      |         | 104-106                                    | 5:05 |
| 20      | 135         | 106 137-114 113-90            | 7       |        |          |              |                   |      |         | 105-107                                    | 5:15 |
| 21      | 136         | 107 137-114 113-90            | 7       |        |          |              |                   |      |         | 106-108                                    | 5:25 |
| 22      | 137         | 108 137-114 113-90            | 7       |        |          |              |                   |      |         | 107-109                                    | 5:35 |
| 23      | 138         | 109 137-114 113-90            | 7       |        |          |              |                   |      |         | 108-110                                    | 5:45 |
| 24      | EOL EOT     |                               |         |        |          |              |                   |      |         |  |      |

|  |                                       |                                      |                               |                                |                                 |
|--|---------------------------------------|--------------------------------------|-------------------------------|--------------------------------|---------------------------------|
| TOTAL SETUPS                                 | TOTAL SWEEPS                          | TOTAL COVERAGE                       | TOTAL FIELD TIME              | DRIVING TIME                   | SYSTEM NO.<br><b>WDS-8</b>      |
| SWEEP FREQUENCY<br><b>10-32 15 SEC. SWP.</b> | SWEEP PATTERN<br><b>INLINE</b>        | SWEEPS PER PATTERN<br><b>16</b>      | SWEEP PATTERNS PER SETUP      | PATCH PATTERN<br><b>INLINE</b> |                                 |
| GEOPHONES PER PATCH<br><b>24</b>             | NO. OF RECORDING PATCHES<br><b>48</b> | TYPE VIBRATOR<br><b>3Y1100 2Y900</b> | TYPE GEOPHONE<br><b>EV22B</b> | FREQUENCY<br><b>7.5</b>        | STATION INTERVAL<br><b>330'</b> |
| REMARKS                                      | OBSERVER                              |                                      | PARTY MGR.                    |                                |                                 |