

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division
Geosource Inc.**

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|-------------------------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|
| CLIENT COCORP | AREA Southern California | STATE California | COUNTY Los Angeles + Kern | DATE 1-22-82 |
| CREW NO. 6834 | TERRAIN Dirt Road | WEATHER Partly Cloudy + Wet | LINE NO. 2 | |

| REC. NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN | TAPE RL. NO. | F I L T E R | | | RE MARKS |
|----------|------------------|-----------------|---------|------------|---------------|--------------|-------------|------|------|---|
| | | | | | | | LOCUT | 60 ~ | AMP | |
| 1 | 933 Pulse | 1 - 6 sec | | | Missed Swepts | 637 | OUT | IN | | BOT #637 " 900 10 sec All ones. |
| 2 | 934/935 FINT | 2 - " " | | | | | | | | Recorder set at 72-73 |
| 3 | 936/939 DRD | 4 - " " | | | | | | | | STA#54 OPEN Due Ditch Filled with WATER |
| 4 | 953/954 Sum Test | 2 - " " | | | | | | | | STA#52 NOISE WORKERS IN Area |
| 5 | 960/961 NRJ TEST | 2 - " " | | | | | | | | |
| 6 | 932 Similarity | 1 - 32 sec | 217 | 4 | | | | | 30% | Vib # 16344 Down working on pad. |
| 7 | 001 Wind Strip | 1 - 52 sec | 1 | | | | | | 60db | |
| 8 | 002 101 | 1 - 96 | 1 | | | | | | 50% | |
| 9 | 003 102 | 2 - 97 | 2 | | | | | | 50% | |
| 10 | 004 103 | 3 - 98 | 3 | | | | | | 50% | |
| 11 | 005 104 | 4 - 99 | 4 | | | | | | 50% | |
| 12 | 006 105 | 5 - 100 | 5 | | 1 | | | | 50% | |
| 13 | 007 106 | 6 - 101 | 6 | | | | | | 50% | |
| 14 | 008 107 | 7 - 102 | 7 | | | | | | 50% | |
| 15 | 009 108 | 8 - 103 | 8 | | | | | | 50% | |
| 16 | 010 109 | 9 - 104 | 9 | | | | | | 50% | |
| 17 | 011 110 | 10 - 105 | 10 | | | 637 | | | 50% | E.O.T #637 TAPE MKTS |
| 18 | 012 111 | 11 - 106 | 11 | WIND Strip | | 638 | | | 60db | B.O.T #638, 900 10sec All ones. |
| 19 | 013 111 | 11 - 106 | 11 | 1 | | | | | 50% | STACKED FIRST HALF |
| 20 | 014 112 | 12 - 107 | 12 | | | | | | 50% | |
| 21 | 015 113 | 13 - 108 | 13 | | | | | | 50% | |
| 22 | 016 114 | 14 - 109 | 14 | | | | | | 50% | |
| 23 | 017 115 | 15 - 110 | 15 | | | | | | 50% | |
| 24 | 018 116 | 16 - 111 | 16 | | | | | | 50% | |
| 25 | 019 117 | 17 - 112 | 17 | | | | | | 50% | |

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|---|-----------------------------------|--------------------------------------|-------------------------------|-------------------------|--------------------------|
| TOTAL SETUPS | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME | SYSTEM NO. |
| SWEEP FREQUENCY 8 → 32 / 32 sec | SWEEP PATTERN 4163 | SWEEPS PER PATTERN 8 | SWEEP PATTERNS PER SETUP 1 | PATCH PATTERN X | |
| GEOPHONES PER PATCH 24 | NO. OF RECORDING PATCHES 96 | TYPE VIBRATOR 4-Y 1100 1-Y 900 | TYPE GEOPHONE ETL EV22B | FREQUENCY 7.5Hz | STATION INTERVAL 330' |
| REMARKS 8ms Sample Rate / 52 sec Record Length | OBSERVER R. Patton / M. Richey | PARTY MGR. P. Davis | LINE DIR. 1 TO 24 S → N | | |

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division**
Geosource Inc.

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| CLIENT COCORP | AREA Southern CALIFORNIA | STATE CALIF | COUNTY Los Angeles-Kern | DATE 1-22-81 |
| CREW NO. 6834 | TERRAIN Dirt Road | WEATHER Partly cloudy + WET | | LINE NO. 2 |

| REC.NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN | TAPE RL.NO. | F I L T E R | | | RE MARKS |
|---------|-------------|-----------------|---------|--------|--------------|-------------|-------------|------|-----|-----------------------|
| | | | | | | | LOCUT | 60 ~ | AMP | |
| 1 | 020 118 | 18-113 | 18 | 4 | Missed Sweep | 638 | OUT | IN | 50% | |
| 2 | 021 119 | 19-114 | 19 | | | | | | 50% | |
| 3 | 022 120 | 20-115 | 20 | | | | | | 50% | |
| 4 | 023 121 | 21-116 | 21 | | | 638 | | | 50% | E.O.T # 638 TAPE MKTS |
| 5 | | | | | | | | | | |
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| TOTAL SETUPS | | TOTAL SWEEPS | | TOTAL COVERAGE | | | TOTAL FIELD TIME | | DRIVING TIME | | SYSTEM NO. | |
| SWEEP FREQUENCY | | | SWEEP PATTERN | | SWEEPS PER PATTERN | | SWEEP PATTERNS PER SETUP | | PATCH PATTERN | | | |
| GEOPHONES PER PATCH | | NO. OF RECORDING PATCHES | | TYPE VIBRATOR | | TYPE GEOPHONE | | FREQUENCY | | STATION INTERVAL | | LINE DIR. 1 TO 24 |
| REMARKS | | | | | | | OBSERVER | | | PARTY MGR. | | |

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
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Geosource Inc.**

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| CLIENT COCORP | AREA Southern California | STATE CALIF | COUNTY Los Angeles | DATE 1-23-82 |
| CREW NO. 6834 | TERRAIN Dirt Road | WEATHER clear | | LINE NO. 2 |

| REC.NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN | TAPE RL.NO. | FILTER | | | REMARKS |
|---------|-------------|-----------------|---------|--------|------------|-------------------|--------|------|-----|---|
| | | | | | | | LOCUT | 60 ~ | AMP | |
| 1 | 043 | 139 | 39-134 | 18 | 4 | MISSED Sweeps 640 | OUT | IN | 50% | |
| 2 | 044 | 140 | 40-135 | 19 | | | | | 50% | |
| 3 | 045 | 141 | 41-136 | 20 | | | | | 50% | |
| 4 | 046 | 142 | 42-137 | 21 | 1 | | | | 50% | |
| 5 | 047 | 143 | 43-138 | 22 | | 640 | | | 50% | E.O.T.#640 TAPE MKTS |
| 6 | 048 | 144 | 44-139 | 23 | wind strip | 641 | | | 66% | B.O.T.#641, 900 losses ALL ONES. |
| 7 | 049 | 144 | 44-139 | 23 | | | | | 50% | |
| 8 | 050 | 145 | 45-140 | 24 | | | | | 50% | |
| 9 | 051 | 146 | 46-141 | 25 | | | | | 50% | |
| 10 | 052 | 147 | 47-142 | 26 | | | | | 50% | PICKING UP NOISE AT FRONT ON line FROM BASE |
| 11 | 053 | 148 | 48-143 | 27 | | | | | 50% | SHOOTING |
| 12 | 054 | 149 | 49-144 | 28 | | | | | 50% | |
| 13 | 055 | 150 | 50-145 | 29 | | | | | 50% | |
| 14 | 056 | 151 | 51-146 | 30 | | | | | 50% | |
| 15 | 057 | 152 | 52-147 | 31 | | | | | 50% | |
| 16 | 058 | 153 | 53-148 | 32 | | | | | 50% | |
| 17 | 059 | 154 | 54-149 | 33 | | | | | 50% | |
| 18 | 060 | 155 | 55-150 | 34 | | 64 | | | 50 | E.O.T.#640 TAPE MKTS |
| 19 | | | | | | | | | | |
| 20 | | | | | | | | | | |
| 21 | | | | | | | | | | |
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| TOTAL SETUPS | | TOTAL SWEEPS | | TOTAL COVERAGE | | TOTAL FIELD TIME | | DRIVING TIME | | SYSTEM NO. | | |
| SWEEP FREQUENCY | | | SWEEP PATTERN | | | SWEEPS PER PATTERN | | | SWEEP PATTERNS PER SETUP | | PATCH PATTERN | |
| GEOPHONES PER PATCH | | NO. OF RECORDING PATCHES | | TYPE VIBRATOR | | TYPE GEOPHONE | | FREQUENCY | | STATION INTERVAL | | |
| REMARKS | | OBSERVER | | | | PARTY MGR. | | | | | | |

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**Exploration Services
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Geosource Inc.

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| CLIENT COCORP | AREA Southern California | STATE California | COUNTY Keyn | DATE 1-25-82 |
| CREW NO. 6834 | TERRAIN Dirt Road + Rolling Hills | WEATHER Clear | LINE NO. 2 | |

| REC.NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN | TAPE RL.NO. | FILTER | | | REMARKS |
|---------|------------------|-----------------|---------|--------|---------------|-------------|--------|------|------|---------------------------------|
| | | | | | | | LOCUT | 60 ~ | AMP | |
| 1 | 933 Pulse | 1-sec | | | Missed Sweeps | 642 | OUT | IN | | B.O.T # 642, 900 10sec All ones |
| 2 | 934/935 EINT | 2- " " | | | | | | | | Recorder set at 127-128 |
| 3 | 936/939 D.R.D | 4- " " | | | | | | | | STA # 150 OPEN Due to HI-WAY |
| 4 | 933/934 sum test | 2- " " | | | | | | | | STA # 166 OPEN Due to ROCKS |
| 5 | 940/941 NRS test | 2- " " | | | | | | | | |
| 6 | 932 Similarity | 1-32sec | 217 | 4 | | | | | 30% | Vib # 16344 Down |
| 7 | 061 WINDSTRIP | 1-52sec | 1 | | | | | | 66db | |
| 8 | 062 156 | 56-151 | 1 | | | | | | 50% | |
| 9 | 063 157 | 57-152 | 2 | | | | | | 50% | |
| 10 | 064 158 | 58-153 | 3 | | | | | | 50% | |
| 11 | 065 159 | 59-154 | 4 | | | | | | 50% | |
| 12 | 066 160 | 60-155 | 5 | | | | | | 50% | |
| 13 | 067 161 | 61-156 | 6 | | | | | | 50% | |
| 14 | 068 162 | 62-157 | 7 | | | | | | 50% | |
| 15 | 069 163 | 63-158 | 8 | | | | | | 50% | |
| 16 | 070 164 | 64-159 | 9 | | | 642 | | | 50% | E.O.T # 642 TAPE MKTS |
| 17 | 071 165 | 65-160 | 10 | WIND | strip | 643 | | | 60db | B.O.T # 643, 900 10sec All ones |
| 18 | 072 165 | 65-160 | 10 | | | | | | 50% | |
| 19 | 073 166 | 66-161 | 11 | | | | | | 50% | |
| 20 | 074 167 | 67-162 | 12 | | 1 | | | | 50% | |
| 21 | 075 168 | 68-163 | 13 | | | | | | 50% | |
| 22 | 076 169 | 69-164 | 14 | | 1 | | | | 50% | |
| 23 | 077 170 | 70-165 | 15 | | 1 | | | | 50% | |
| 24 | 078 171 | 71-166 | 16 | | | | | | 50% | |
| 25 | 079 172 | 72-167 | 17 | | | | | | 50% | |

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| TOTAL SETUPS | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME | SYSTEM NO. |
| SWEEP FREQUENCY 8 → 32Hz / 3.2 sec | SWEEP PATTERN 4163 | SWEEPS PER PATTERN 8 | SWEEP PATTERNS PER SETUP 1 | PATCH PATTERN X | |
| GEOPHONES PER PATCH 24 | NO. OF RECORDING PATCHES 96 | TYPE VIBRATOR 4-γ 1100 1-γ 900 | TYPE GEOPHONE ETL E22B | FREQUENCY 7.5Hz | STATION INTERVAL 330' |
| REMARKS 8ms Sample Rate / 52 sec Record Length | | OBSERVER R. Patten / M. Richey | | PARTY MGR. L. Davis | |

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| CLIENT COCORP | AREA Southern CALIFORNIA | STATE CALIF | COUNTY Kern | DATE 1-25-82 |
| CREW NO. 6834 | TERRAIN Dirt Road | WEATHER clear | | LINE NO. 2 |

| REC.NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN | TAPE RL.NO. | F I L T E R | | | RE MARKS |
|---------|-------------|-----------------|---------|--------|------------|---------------------|-------------|------|------|--------------------------------|
| | | | | | | | LOCUT | 60 ~ | AMP | |
| 1 | 080 | 173 | 73-168 | 18 | 4 | missed sweep 643 | OUT | IN | 50% | |
| 2 | 081 | 174 | 74-169 | 19 | | 1 | | | 50% | |
| 3 | 082 | 175 | 75-170 | 20 | | | | | 50% | |
| 4 | 083 | 176 | 76-171 | 21 | | 643 | | | 50% | E.O.T #643 TAPE MKTS |
| 5 | 084 | 177 | 77-172 | 22 | wind strip | 644 | | | 60db | B.O.T #644, 900 10sec All ONES |
| 6 | 085 | 177 | 77-172 | 22 | | | | | 50% | |
| 7 | 086 | 178 | 78-173 | 23 | | | | | 50% | |
| 8 | 087 | 179 | 79-174 | 24 | | 1 | | | 50% | |
| 9 | 088 | 180 | 80-175 | 25 | | | | | 50% | |
| 10 | 089 | 181 | 81-176 | 26 | | | | | 50% | |
| 11 | 090 | 182 | 82-177 | 27 | | | | | 50% | |
| 12 | 091 | 183 | 83-178 | 28 | | 1 | | | 50% | |
| 13 | 092 | 184 | 84-179 | 29 | | | | | 50% | |
| 14 | 093 | 185 | 85-180 | 30 | | 1 | | | 50% | |
| 15 | 094 | 186 | 86-181 | 31 | | | | | 50% | |
| 16 | 095 | 187 | 87-182 | 32 | | | | | 50% | |
| 17 | 096 | 188 | 88-183 | 33 | | 644 | | | 50% | E.O.T #644 TAPE MKTS |
| 18 | 097 | 189 | 89-184 | 34 | wind strip | 645 | | | 60db | B.O.T #645, 900 10sec All ONES |
| 19 | 098 | 189 | 89-184 | 34 | | | | | 50% | |
| 20 | 099 | 190 | 90-185 | 35 | | | | | 50% | |
| 21 | 100 | 191 | 91-186 | 36 | | | | | 50% | |
| 22 | 101 | 192 | 92-187 | 37 | | | | | 50% | |
| 23 | 102 | 193 | 93-188 | 38 | | | | | 50% | |
| 24 | 103 | 194 | 94-189 | 39 | | | | | 50% | |
| 25 | 104 | 195 | 95-190 | 40 | | | | | 50% | |

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| TOTAL SETUPS | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME | SYSTEM NO. |
| SWEEP FREQUENCY | SWEEP PATTERN | SWEEPS PER PATTERN | SWEEP PATTERNS PER SETUP | PATCH PATTERN | |
| GEOPHONES PER PATCH | NO. OF RECORDING PATCHES | TYPE VIBRATOR | TYPE GEOPHONE | FREQUENCY | STATION INTERVAL |
| REMARKS | OBSERVER M. Richey / B. PATTON | | PARTY MGR. | | |

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DIGITAL VIBROSEIS RECORDER**

**Exploration Services
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Geosource Inc.

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|-------------------------|------------------------------------|-------------------------|-----------------------|------------------------|
| CLIENT COCORP | AREA Southern California | STATE CALIF | COUNTY KERN | DATE 1-25-88 |
| CREW NO. 6834 | TERRAIN Dirt Road | WEATHER clear | | LINE NO. 2 |

| REC.NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN | TAPE RL.NO. | F I L T E R | | | RE MARKS |
|---------|-------------|-----------------|---------|--------|----------|-----------------------------|-------------|------|-----|----------------------|
| | | | | | | | LOCUT | 60 ~ | AMP | |
| 1 | 105 | 196 | 96-191 | 41 | 4 | ^{MISSED SWEEP} 645 | OUT | IN | 500 | |
| 2 | 106 | 197 | 97-192 | 42 | | | | | 500 | |
| 3 | 107 | 198 | 98-193 | 43 | | 645 | | | 500 | E.O.T #645 TAPE MKTS |
| 4 | | | | | | | | | | |
| 5 | | | | | | | | | | |
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| TOTAL SETUPS | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME | SYSTEM NO. |
| SWEEP FREQUENCY | SWEEP PATTERN | SWEEPS PER PATTERN | SWEEP PATTERNS PER SETUP | PATCH PATTERN | |
| GEOPHONES PER PATCH | NO. OF RECORDING PATCHES | TYPE VIBRATOR | TYPE GEOPHONE | FREQUENCY | STATION INTERVAL |
| REMARKS | OBSERVER M. Bichey / R. Patton | | PARTY MGR. | | |

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DIGITAL VIBROSEIS RECORDER**

**Exploration Services
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| CLIENT COCORP | AREA Southern CALIFORNIA | STATE CALIF | COUNTY KERN | DATE 1-26-82 |
| CREW NO. 6834 | TERRAIN Dirt Road | WEATHER Clear - Windy | | LINE NO. 2 |

| REC. NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN | TAPE RL. NO. | FILTER | | | REMARKS |
|----------|-----------------------------|-----------------|---------|--------|----------|--------------|--------|------|-----|--|
| | | | | | | | LOGUT | 60 ~ | AMP | |
| 1 | 933 Pulse | 1-6sec | | | | | | | | B.O.T # 646, 900 10sec All ones |
| 2 | 934 935 EINT | 2-11 " | | | | | | | | sta# 150 OPEN Due to HI-WAY |
| 3 | 936 939 D.R.D | 4-11 " | | | | | | | | sta# 166 OPEN Due to ROCKS |
| 4 | 953 954 Scintest | 2-11 " | | | | | | | | Recorder set At 169-170 |
| 5 | 961 N.R.J test | 2-11 " | | | | | | | | |
| 6 | 932 SIMILARITY | 1-32sec | 217 | 4 | | | | | 30% | Vib # 14256 Down |
| 7 | 108 WIND STRIP | 1-52sec | | | | | | | 66% | |
| 8 | 109 199 | 99-194 | 2 | 4 | 1 | | | | 50% | |
| 9 | 110 200 | 100-195 | 3 | | 1 | | | | 50% | |
| 10 | 111 201 | 101-196 | 4 | | | | | | 50% | Wind Picking up |
| 11 | 112 202 | 102-197 | 5 | | 7 | | | | 50% | Down IN Valley |
| 12 | 113 203 | 103-198 | 6 | | 6 | | | | 50% | |
| 13 | 114 204 | 104-199 | 7 | | 2 | | | | 50% | |
| 14 | 115 205 | 105-200 | 8 | | 5 | | | | 50% | Wind Picking up Blowing 30-35 mph |
| 15 | | | | | | | | | | Vibs Directly under High Line Cant Pick up tones |
| 16 | | | | | | | | | | Shutting Down |
| 17 | | | | | | | | | | |
| 18 | | | | | | | | | | |
| 19 | | | | | | | | | | |
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| TOTAL SETUPS | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME | SYSTEM NO. |
| SWEEP FREQUENCY 832[#] 32sec | SWEEP PATTERN 4/63 | SWEEPS PER PATTERN 8 | SWEEP PATTERNS PER SETUP 1 | PATCH PATTERN / X) / | |
| GEOPHONES PER PATCH 24 | NO. OF RECORDING PATCHES 96 | TYPE VIBRATOR 4-y1100's 1-y900 | TYPE GEOPHONE ET/ENV22B | FREQUENCY 7.5 Hz | STATION INTERVAL 330' |
| REMARKS 8ms Sample RATE/52sec Record Len | OBSERVER K. PATTON / M. Richey | | PARTY MGR J. DAVIS | | |

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DIGITAL VIBROSEIS RECORDER**

**Exploration Services
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| CLIENT COCORP | AREA Southern California | STATE California | COUNTY Kern | DATE 1-27-82 |
| CREW NO. 6834 | TERRAIN Dirt Road + Rolling Hills | WEATHER Clear | LINE NO. 2 | |

| REC. NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN | TAPE RL. NO. | F I L T E R | | | REMARKS |
|----------|-------------|-----------------|------------|--------|------------|--------------|-------------|------|------|--|
| | | | | | | | LOCUT | 60 ~ | AMP | |
| 1 | 933 | Pulse | 1 - 6 sec | | | 646 | out | IN | | Recorder SET UP AT 175-176 |
| 2 | 934/935 | EINT | 2 - " " | | | | | | | STA # 150 OPEN Due to HI-WAY |
| 3 | 936/939 | DRD | 4 - " " | | | | | | | STA # 166 OPEN Due to ROCKS |
| 4 | 953/954 | Sum TEST | 2 - " " | | | | | | | |
| 5 | 969/961 | NRT TEST | 2 - " " | | | | | | | |
| 6 | 932 | similarity | 1 - 32 sec | 217 | 5 | 646 | | | 30% | E.O.T # 646 TAPE MKTS |
| 7 | 116 | wind strip | 1 - 52 sec | 3 | | 647 | | | 66db | PICK UP NOISE FROM HI-WAY B.O.T # 647, 900 |
| 8 | 117 | 206 | 106-201 | 3 | 5 | 10 | | | 50% | 10 sec ALL ONE / HI-LINE RUNNING DOWN LINE |
| 9 | 118 | 207 | 107-202 | 4 | | 2 | | | 50% | |
| 10 | 119 | 208 | 108-203 | 5 | | | | | 50% | |
| 11 | 120 | 209 | 109-204 | 6 | | 4 | | | 50% | |
| 12 | 121 | 210 | 110-205 | 7 | | | | | 50% | |
| 13 | 122 | 211 | 111-206 | 8 | | | | | 50% | |
| 14 | 123 | 212 | 112-207 | 9 | | 3 | | | 50% | |
| 15 | 124 | 213 | 113-208 | 10 | | | | | 50% | |
| 16 | 125 | 214 | 114-209 | 11 | | 4 | | | 50% | |
| 17 | 126 | 215 | 115-210 | 12 | | | | | 50% | |
| 18 | 127 | 216 | 116-211 | 13 | | 7 | | | 50% | |
| 19 | 128 | 217 | 117-212 | 14 | | 647 | | | 50% | E.O.T # 646 TAPE MKTS |
| 20 | 129 | 218 | 118-213 | 15 | wind strip | 648 | | | 66db | B.O.T # 647, 900 10sec ALL ONES |
| 21 | 130 | 218 | 118-213 | 15 | | | | | 50% | |
| 22 | 131 | 219 | 119-214 | 2 | | | | | 50% | Recorder moved up 189-190 |
| 23 | 132 | 220 | 120-215 | 3 | | 7 | | | 50% | |
| 24 | 133 | 221 | 121-216 | 4 | | 2 | | | 50% | |
| 25 | 134 | 222 | 122-217 | 5 | | | | | 50% | |

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| TOTAL SETUPS | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME | SYSTEM NO. |
| SWEEP FREQUENCY 8 → 32hz / 32 sec | SWEEP PATTERN 4/63 | SWEEPS PER PATTERN 8 | SWEEP PATTERNS PER SETUP 1 | PATCH PATTERN X | |
| GEOPHONES PER PATCH 24 | NO. OF RECORDING PATCHES 96 | TYPE VIBRATOR 4-Y 1100 1-Y 900 | TYPE GEOPHONE EXLEV22B | FREQUENCY 7.5hz | STATION INTERVAL 330' |
| REMARKS 8ms Sample Rate / 52 sec Record Length | OBSERVER R. Patton / M Richey | PARTY MGR. L Davis | LINE DIR. 1 TO 24 S → N | | |

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division
Geosource Inc.**

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| | | | | |
|-------------------------|---|--------------------------------|-----------------------|------------------------|
| CLIENT <i>COCORP</i> | AREA <i>Southern California</i> | STATE <i>CAIF</i> | COUNTY <i>Kern</i> | DATE <i>1-27-82</i> |
| CREW NO. <i>6834</i> | TERRAIN <i>Dirt Road & Rolling Hills</i> | WEATHER <i>partly cloud</i> | | LINE NO. <i>2</i> |

| REC.NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN | TAPE RL.NO. | F I L T E R | | | REMARKS |
|---------|-------------|-----------------|---------|--------|-------------|-------------------------|-------------|-----------|------|---------------------------------------|
| | | | | | | | LOCUT | 60 ~ | AMP | |
| 1 | 135 | 223 | 123-218 | 6 | 5 | <i>missed sweep</i> 648 | <i>OUT</i> | <i>IN</i> | 50% | |
| 2 | 136 | 224 | 124-219 | 7 | | 3 | | | 50% | |
| 3 | 137 | 225 | 125-220 | 8 | | 6 | | | 50% | |
| 4 | 138 | 226 | 126-221 | 9 | | 2 | | | 50% | |
| 5 | 139 | 227 | 127-222 | 10 | | 7 | | | 50% | |
| 6 | 140 | 228 | 128-223 | 1 | | | | | 50% | <i>Recorder moved UP 199-200</i> |
| 7 | 141 | 229 | 129-224 | 2 | | | 648 | | 50% | <i>E.O.T #648 TAPE MKTS</i> |
| 8 | 142 | 230 | 130-225 | 3 | <i>WIND</i> | <i>strip</i> | 649 | | 72db | <i>B.O.T #649, 900 10sec All ones</i> |
| 9 | 143 | 230 | 130-225 | 3 | | | | | 50% | |
| 10 | 144 | 231 | 131-226 | 4 | | | | | 50% | |
| 11 | 145 | 232 | 132-227 | 5 | | 2 | | | 50% | |
| 12 | 146 | 233 | 133-228 | 6 | | 4 | | | 50% | |
| 13 | 147 | 234 | 134-229 | 7 | | | | | 50% | |
| 14 | 148 | 235 | 135-230 | 8 | | | | | 50% | |
| 15 | 149 | 236 | 136-231 | 9 | | 2 | | | 50% | |
| 16 | 150 | 237 | 137-232 | 10 | | | | | 50% | |
| 17 | 151 | 238 | 138-233 | 11 | | | | | 50% | |
| 18 | 152 | 239 | 139-234 | 12 | | | | | 50% | |
| 19 | 153 | 240 | 140-235 | 13 | | 1 | | | 50% | |
| 20 | 154 | 241 | 141-236 | 14 | | | 649 | | 50% | <i>E.O.T #649 TAPE MKTS</i> |
| 21 | 155 | 242 | 142-237 | 15 | <i>WIND</i> | <i>strip</i> | 650 | | 66db | <i>B.O.T #650, 900 10sec All ones</i> |
| 22 | 156 | 242 | 142-237 | 15 | | 5 | | | 50% | |
| 23 | 157 | 243 | 143-238 | 16 | | 8 | | | 50% | |
| 24 | | | | | | | | | | |
| 25 | | | | | | | | | | |

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|---|---------------------------------------|---|--------------------------------------|-------------------------------------|---------------------------------|
| TOTAL SETUPS | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME | SYSTEM NO. |
| SWEEP FREQUENCY <i>8 → 32 Hz / 32 sec</i> | SWEEP PATTERN <i>4/163</i> | SWEEPS PER PATTERN <i>8</i> | SWEEP PATTERNS PER SETUP <i>1</i> | PATCH PATTERN <i> X </i> | |
| GEOPHONES PER PATCH <i>24</i> | NO. OF RECORDING PATCHES <i>96</i> | TYPE VIBRATOR <i>4-1100's 1-1900</i> | TYPE GEOPHONE <i>E+LE 122B</i> | FREQUENCY <i>7.5 Hz</i> | STATION INTERVAL <i>330'</i> |
| REMARKS <i>8ms Sample RATE / 52sec Record Length</i> | | OBSERVER <i>B. Patton / M. Richey</i> | | PARTY MGR. <i>L. Davis</i> | |

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division
Geosource Inc.**

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|-------------------------|---|---------------------------------|-----------------------|------------------------|
| CLIENT COCORP | AREA Southern California | STATE CALIF | COUNTY Kern | DATE 1-28-82 |
| CREW NO. 6834 | TERRAIN Dirt Road + Rolling Hills | WEATHER Clear - WINDY | LINE NO. 2 | |

| REC.NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN | TAPE RL.NO. | FILTER | | | REMARKS |
|---------|-------------------------------|-----------------|---------|--------|----------------|-------------|--------|------|-----|--|
| | | | | | | | LOGUT | 60 ~ | AMP | |
| 1 | 933 Pulse | 1-6sec | | | 650 | 650 | OUT | IN | | Recorder set at 212-213 |
| 2 | 934 935 FINT | 2-11" | | | | | | | | STA# 150 OPEN Due to HI-WAY |
| 3 | 936 939 D.R.D | 4-11" | | | | | | | | STA# 166 OPEN Due to ROCKS |
| 4 | 953 954 SUM test | 2-11" | | | | | | | | |
| 5 | 960 961 N.R.S test | 2-11" | | | | | | | | |
| 6 | 932 SIMILARITY | 1-32sec | 217 | 5 | | 650 | | | | 30% |
| 7 | 158 WIND strip | 1-52sec | 4 | | | | | | | 66Db |
| 8 | 159 244 | 144-239 | 4 | 5 | | | | | | 50% |
| 9 | 160 245 | 145-240 | 5 | | | | | | | 50% |
| 10 | 161 246 | 146-241 | 6 | | | | | | | 50% |
| 11 | 162 247 | 147-242 | 7 | | | | | | | 50% |
| 12 | 163 248 | 148-243 | 8 | | | | | | | 50% |
| 13 | 164 249 | 149-244 | 9 | | | | | | | 50% Wind Picking up. |
| 14 | 165 250 | 150-245 | 10 | | | 650 | | | | 50% E.O.T #650 TAPE MKTS |
| 15 | 166 251 | 151-246 | 11 | | WIND strip | 651 | | | | 66Db B.O.T #651, 900 uses ALL ONES |
| 16 | 167 251 | 151-246 | 11 | | | | | | | 50% |
| 17 | 168 252 | 152-247 | 12 | | | | | | | 50% |
| 18 | 169 253 | 153-248 | 13 | | | | | | | 50% |
| 19 | 170 254 | 154-249 | 14 | | | | | | | 50% |
| 20 | 171 255 | 155-250 | 15 | | | | | | | 50% RAIN STARTED FALLING and WIND Picking UP MORE. |
| 21 | 172 256 | 156-251 | 16 | | | | | | | 50% |
| 22 | 173 257 | 157-252 | 17 | | | | | | | 50% |
| 23 | 174 258 | 158-253 | 18 | | | | | | | 50% |
| 24 | 175 259 | 159-254 | 19 | | | | | | | 50% |
| 25 | 176 260 | 160-255 | 20 | | | | | | | 50% |

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|--|-----------------------------------|--------------------------------------|-------------------------------|-------------------------|--|
| TOTAL SETUPS | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME | SYSTEM NO. |
| SWEEP FREQUENCY 8 → 32Hz / 32sec | SWEEP PATTERN 4163 | SWEEPS PER PATTERN 8 | SWEEP PATTERNS PER SETUP 1 | PATCH PATTERN x | |
| GEOPHONES PER PATCH 24 | NO. OF RECORDING PATCHES 96 | TYPE VIBRATOR 4-Y 1100 1-Y 900 | TYPE GEOPHONE ETL EV22B | FREQUENCY 7.5Hz | STATION INTERVAL 330' LINE DIR. 1 TO 24 S → N |
| REMARKS 8ms Sample Rate / 52sec Record Length | OBSERVER R. Patton / M. Richey | PARTY MGR. L. Davis | | | |

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division
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|-------------------------|---|----------------------------------|-----------------------|------------------------|
| CLIENT COCORP | AREA <i>southern California</i> | STATE CALIF | COUNTY KERN | DATE 1-28-82 |
| CREW NO. 6834 | TERRAIN <i>Dirt Road + Rolling Hills</i> | WEATHER <i>cloudy - WINDY</i> | | LINE NO. 2 |

| REC. NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN | TAPE RL. NO. | F I L T E R | | | RE MARKS |
|----------|-------------|-----------------|---------|--------|----------|--------------|-------------|------|------|--|
| | | | | | | | LOCUT | 60 ~ | AMP | |
| 1 | 177 | 261 | 161-256 | 21 | 5 | 651 | OUT | IN | 30% | E.O.T #651 TAPE MKTS |
| 2 | 178 | 262 | 162-257 | 22 | WIND | 652 | | | 66Db | B.O.T #652, 900 10sec ALL ONES |
| 3 | 179 | 262 | 162-257 | 22 | | | | | 50% | |
| 4 | 180 | 263 | 163-258 | 23 | | | | | 50% | |
| 5 | 181 | 264 | 164-259 | 24 | | 652 | | | 50% | E.O.T #652 TAPE MKTS / temp E.O.L. line no. 2. |
| 6 | | | | | | | | | | |
| 7 | | | | | | | | | | |
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|---------------------|--------------------------|--------------------|--|---------------|------------------|
| TOTAL SETUPS | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME | SYSTEM NO. |
| SWEEP FREQUENCY | SWEEP PATTERN | SWEEPS PER PATTERN | SWEEP PATTERNS PER SETUP | PATCH PATTERN | |
| GEOPHONES PER PATCH | NO. OF RECORDING PATCHES | TYPE VIBRATOR | TYPE GEOPHONE | FREQUENCY | STATION INTERVAL |
| REMARKS | | | OBSERVER <i>B. Patton / M. Bisbey</i> | PARTY MGR. | |

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

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**Exploration Services
Division**
Geosource Inc.

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|-------------------------|---|-------------------------|-----------------------|------------------------|
| CLIENT Cocorp | AREA Southern California | STATE Calif. | COUNTY KERN | DATE 3-20-82 |
| CREW NO. 6834 | TERRAIN Dirt road + Rolling hills | WEATHER Clear | LINE NO. 2 | |

| REC.NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN | TAPE RL.NO. | FILTER | | | REMARKS |
|---------|----------------|-----------------|---------|------------|--------------|-------------|--------|------|-----|--|
| | | | | | | | LOCUT | 60 ~ | AMP | |
| 1 | 933 Pulse | 1-6sec | | | missed SWEEP | 751 | OUT | IN | | Recorder SET AT 236-237 |
| 2 | 934 FINT | 2-11 " | | | | | | | | STA#166 OPEN Due to Road. |
| 3 | 935 D.R.D. | 4-11 " | | | | | | | | Vib. 23651 down, bad injector pump |
| 4 | 936 Sumtest | 2-11 " | | | | | | | | |
| 5 | 937 NRS test | 2-11 " | | | | | | | | Picking up NOISE FROM POWER LINES |
| 6 | 932 Similarity | 1-32sec | 217 | 4 | | 751 | | | | |
| 7 | 182 Windstrip | 1-52sec | 1 | | | | | | | |
| 8 | 183 265 | 165-260 | 1 | | 1 | | | | | 50% |
| 9 | 184 266 | 166-261 | 2 | | 3 | | | | | 50% |
| 10 | 185 267 | 167-262 | 3 | | 2 | | | | | 50% |
| 11 | 186 268 | 168-263 | 4 | | 2 | | | | | 50% |
| 12 | 187 269 | 169-264 | 5 | | 4 | | | | | 50% |
| 13 | 188 270 | 170-265 | 6 | | 2 | | | | | 50% NOTE FILE NO.# WAS CHANGED FROM 653 to 751 |
| 14 | 189 271 | 171-266 | 7 | | 1 | | | | | 50% |
| 15 | 190 272 | 172-267 | 8 | | 2 | | | | | 50% |
| 16 | 191 273 | 173-268 | 9 | | 3 | | | | | 50% |
| 17 | 192 274 | 174-269 | 10 | | 3 | 751 | | | | 50% E.O. + #751, TAPE MKTS |
| 18 | 193 275 | 175-270 | 11 | wind strip | | 752 | | | | 50% P.O. + #752 900 10sec All ones. |
| 19 | 194 275 | 175-270 | 11 | | 1 | | | | | 50% |
| 20 | 195 276 | 176-271 | 12 | | | | | | | 50% |
| 21 | 196 277 | 177-272 | 13 | | | | | | | 50% |
| 22 | 197 278 | 178-273 | 14 | | 2 | | | | | 50% |
| 23 | 198 279 | 179-274 | 15 | | | | | | | 50% |
| 24 | 199 280 | 180-275 | 16 | | 2 | | | | | 50% |
| 25 | 200 281 | 181-276 | 17 | | | | | | | 50% |

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|--|--------------------------------|-------------------------------------|-------------------------------|-------------------------|--------------------------|
| TOTAL SETUPS | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME | SYSTEM NO. |
| SWEEP FREQUENCY 8 → 32Hz/32sec. | SWEEP PATTERN 4163 | SWEEPS PER PATTERN 8 | SWEEP PATTERNS PER SETUP 1 | PATCH PATTERN X | |
| GEOPHONES PER PATCH 24 | NO. OF RECORDING PATCHES 96 | TYPE VIBRATOR 4-41100 1-4 900 | TYPE GEOPHONE ETLEU22B | FREQUENCY 7.5 HZ | STATION INTERVAL 330' |
| REMARKS 8ms sample rate/52 sec. Record Length | | | OBSERVER M. Richey | PARTY MGR. L. DAVIS | |

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division
Geosource Inc.**

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|-------------------------|--------------------------------|-------------------------|-----------------------|------------------------|
| CLIENT <i>COCORP</i> | AREA <i>Southern Calif.</i> | STATE <i>Calif.</i> | COUNTY <i>KERN</i> | DATE <i>3-21-82</i> |
| CREW NO. <i>6834</i> | TERRAIN <i>DIRT ROAD</i> | WEATHER <i>clear</i> | LINE NO. <i>2</i> | |

| REC.NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN | TAPE RL.NO. | FILTER | | | REMARKS |
|---------|-----------------------|-----------------|-----------|-------------------|---------------------|-------------|------------|-----------|-------------|---|
| | | | | | | | LOCUT | 60~ | AMP | |
| 1 | <i>933 Pulse</i> | <i>1-6 sec</i> | | | <i>Missed Sweep</i> | <i>752</i> | <i>OUT</i> | <i>IN</i> | | <i>RECORDER AT 253-254</i> |
| 2 | <i>934 EINT</i> | <i>2-6 sec</i> | | | | | | | | |
| 3 | <i>935 D.R.D</i> | <i>4-6 sec</i> | | | | | | | | <i>Vib. 23651 down, bad injector pump</i> |
| 4 | <i>953 Sum test</i> | <i>2-6 sec</i> | | | | | | | | |
| 5 | <i>966 NRS test</i> | <i>2-6 sec</i> | | | | | | | | <i>Picking up noise from power lines</i> |
| 6 | <i>932 Similarity</i> | <i>1-32 sec</i> | <i>27</i> | <i>4</i> | | <i>752</i> | | | <i>30%</i> | |
| 7 | <i>201 Windstrip</i> | <i>1-52 sec</i> | <i>1</i> | | | | | | <i>66Db</i> | |
| 8 | <i>202 282</i> | <i>182-277</i> | <i>1</i> | | <i>1</i> | | | | <i>50%</i> | |
| 9 | <i>203 283</i> | <i>183-278</i> | <i>2</i> | | <i>1</i> | <i>752</i> | | | <i>50%</i> | <i>F.O.T #752, TAPE MKTS</i> |
| 10 | <i>204 284</i> | <i>184-279</i> | <i>3</i> | <i>windstrip</i> | <i>1</i> | <i>753</i> | | | <i>66Db</i> | <i>B.O.T #753, 900 10sec ALL ONES.</i> |
| 11 | <i>205 284</i> | <i>184-279</i> | <i>3</i> | | <i>1</i> | | | | <i>50%</i> | |
| 12 | <i>206 285</i> | <i>185-280</i> | <i>4</i> | | <i>1</i> | | | | <i>50%</i> | |
| 13 | <i>207 286</i> | <i>186-281</i> | <i>5</i> | | | | | | <i>50%</i> | |
| 14 | <i>208 287</i> | <i>187-282</i> | <i>6</i> | | | | | | <i>50%</i> | |
| 15 | <i>209 288</i> | <i>188-283</i> | <i>7</i> | | | | | | <i>50%</i> | |
| 16 | <i>210 289</i> | <i>189-284</i> | <i>8</i> | | | | | | <i>50%</i> | |
| 17 | <i>211 290</i> | <i>190-285</i> | <i>9</i> | | | | | | <i>50%</i> | |
| 18 | <i>212 291</i> | <i>191-286</i> | <i>10</i> | | | | | | <i>50%</i> | |
| 19 | <i>213 292</i> | <i>192-287</i> | <i>11</i> | | | | | | <i>50%</i> | |
| 20 | <i>214 293</i> | <i>193-288</i> | <i>12</i> | | | | | | <i>50%</i> | |
| 21 | <i>215 294</i> | <i>194-289</i> | <i>13</i> | | | | | | <i>50%</i> | |
| 22 | <i>216 295</i> | <i>195-290</i> | <i>14</i> | | | <i>753</i> | | | <i>50%</i> | <i>F.O.T #753, TAPE MKS.</i> |
| 23 | <i>217 296</i> | <i>196-291</i> | <i>15</i> | <i>wind strip</i> | | <i>754</i> | | | <i>66Db</i> | <i>B.O.T #754, 900 10sec ALL ONES.</i> |
| 24 | <i>218 296</i> | <i>196-291</i> | <i>15</i> | | | | | | <i>50%</i> | |
| 25 | <i>219 297</i> | <i>197-292</i> | <i>16</i> | | | | | | <i>50%</i> | |

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|---|---------------------------------------|---|--------------------------------------|-------------------------------------|--------------------------------|
| TOTAL SETUPS | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME | SYSTEM NO. |
| SWEEP FREQUENCY <i>8 → 32 Hz / 32 sec</i> | SWEEP PATTERN <i>4163</i> | SWEEPS PER PATTERN <i>8</i> | SWEEP PATTERNS PER SETUP <i>1</i> | PATCH PATTERN <i> X </i> | |
| GEOPHONES PER PATCH <i>24</i> | NO. OF RECORDING PATCHES <i>96</i> | TYPE VIBRATOR <i>4-41100 1-4 900</i> | TYPE GEOPHONE <i>ETLEU220</i> | FREQUENCY <i>7.5 Hz</i> | STATION INTERVAL <i>330</i> |
| REMARKS <i>8ms sample rate / 52 sec. Record length</i> | OBSERVER <i>M. Richey</i> | PARTY MGR. <i>L. DAVIS</i> | LINE DIR. <i>1 TO 24 S-N</i> | | |

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division
Geosource Inc.**

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CLIENT Cocorp AREA Southern Calif. STATE Calif. COUNTY KERN DATE 3-21-82

CREW NO. 6834 TERRAIN Dirt Road WEATHER CLEAR LINE NO. 2

| REC.NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN | TAPE RL.NO. | FILTER | | | REMARKS |
|---------|-------------|-----------------|---------|--------|--------------|-------------|--------|------|------|---------------------------------|
| | | | | | | | LOCUT | 60 ~ | AMP | |
| 1 | 220 | 198-293 | 17 | 4 | MISSED Sweep | 754 | OUT | IN | 50% | |
| 2 | SKIP | 199-294 | 18 | | | | | | 50% | DUE TO PIPE LINES |
| 3 | 221 | 200-295 | 19 | | | | | | 50% | |
| 4 | 222 | 201-296 | 20 | | | | | | 50% | |
| 5 | 223 | 202-297 | 21 | | | | | | 50% | |
| 6 | 224 | 203-298 | 22 | | | | | | 50% | |
| 7 | 225 | 204-299 | 23 | | | | | | 50% | |
| 8 | 226 | 205-300 | 24 | | | | | | 50% | |
| 9 | 227 | 206-301 | 25 | | | | | | 50% | |
| 10 | 228 | 207-302 | 26 | | 1 | | | | 50% | |
| 11 | 229 | 208-303 | 27 | | | 754 | | | 50% | E.O.T #754, TAPE MK15 |
| 12 | 230 | 209-304 | 28 | WIND | strip | 755 | | | 66DA | B.O.T #755, 900 10sec ALL ONES. |
| 13 | 231 | 209-304 | 28 | | 1 | | | | 50% | |
| 14 | 232 | 210-305 | 29 | | | | | | 50% | |
| 15 | 233 | 211-306 | 30 | | | | | | 50% | |
| 16 | | | | | | | | | | |
| 17 | | | | | | | | | | |
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|---------------------|---------------------------|--------------------|--------------------------|---------------|------------------|
| TOTAL SETUPS | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME | SYSTEM NO. |
| SWEEP FREQUENCY | SWEEP PATTERN | SWEEPS PER PATTERN | SWEEP PATTERNS PER SETUP | PATCH PATTERN | |
| GEOPHONES PER PATCH | NO. OF RECORDING PATCHES | TYPE VIBRATOR | TYPE GEOPHONE | FREQUENCY | STATION INTERVAL |
| REMARKS | OBSERVER <u>M. Richey</u> | | PARTY MGR. | | |

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
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|-------------------------|------------------------------------|-------------------------|-----------------------|------------------------|
| CLIENT COCORP | AREA Southern California | STATE CALIF | COUNTY Kern | DATE 3-28-82 |
| CREW NO. 6834 | TERRAIN Dirt Road | WEATHER clear | | LINE NO. 2 |

| REC.NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN | TAPE RL.NO. | FILTER | | | REMARKS |
|---------|----------------|-----------------|---------|--------|------------|-------------------|--------|------|------|------------------------------------|
| | | | | | | | LOCUT | 60 ~ | AMP | |
| 1 | 933 Pulse | 1-6sec | | | | MISSING Sweep 755 | DLT | IN | | Recorder SET AT 267-268 |
| 2 | 934 FIN+ | 2-11" | | | | | | | | UNDER SHOOTING RAIL + ROAD - RXR |
| 3 | 935 D.R.D | 4-111" | | | | | | | | Vib #23651 Down, bad injector pump |
| 4 | 936 SUM test | 2-11" | | | | | | | | PICKING UP NOISE FROM POWER LINES. |
| 5 | 937 N.R.T test | 2-11" | | | | | | | | |
| 6 | 932 SIMILARITY | 1-32sec | 217 | 4 | | | | | 30% | |
| 7 | 235 WIND STRIP | 1-52sec | 2 | | | | | | 66db | UNDER SHOOTING RAIL X ROAD |
| 8 | 236 324 | 197-292 | 2 | | 2 | | | | 50% | |
| 9 | 237 325 | 198-293 | 3 | | | | | | 50% | |
| 10 | 238 326 | 199-294 | 4 | | | | | | 50% | STACKED 1st HALF. |
| 11 | 239 327 | 200-295 | 5 | | | | | | 50% | |
| 12 | 240 328 | 201-296 | 6 | | | | | | 50% | |
| 13 | 241 329 | 202-297 | 7 | | | 755 | | | 50% | E.O. + #755, TAPE MKTS. |
| 14 | 242 330 | 203-298 | 8 | | WIND strip | 756 | | | 66db | B.O. #756, 900 10sec ALL ONES. |
| 15 | 243 330 | 203-298 | 8 | | | | | | 50% | |
| 16 | 244 331 | 204-299 | 9 | | | | | | 50% | |
| 17 | 245 332 | 205-300 | 10 | | | | | | 50% | |
| 18 | 246 333 | 206-301 | 11 | | | | | | 50% | |
| 19 | 247 334 | 207-302 | 12 | | | | | | 50% | |
| 20 | SKIP 335 | 208-303 | 13 | | | | | | SKIP | DUE TO HOUSE. |
| 21 | 248 336 | 209-304 | 14 | | 1 | | | | 50% | STACKED LAST HALF |
| 22 | 249 337 | 210-305 | 15 | | | | | | 50% | |
| 23 | 250 338 | 211-306 | 16 | | | | | | 50% | |
| 24 | 251 339 | 212-307 | 17 | | | | | | 50% | STACKED 1st HALF. |
| 25 | 252 340 | 213-308 | 18 | | | | | | 50% | |

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|--|---------------------------------------|--|--------------------------------------|-------------------------------------|---------------------------------|
| TOTAL SETUPS | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME | SYSTEM NO. |
| SWEEP FREQUENCY 8-32Hz | SWEEP PATTERN 4/63 | SWEEPS PER PATTERN 8 | SWEEP PATTERNS PER SETUP 1 | PATCH PATTERN x | |
| GEOPHONES PER PATCH 24 | NO. OF RECORDING PATCHES 96 | TYPE VIBRATOR 4-y1100's 1-y900 | TYPE GEOPHONE E+EL228 | FREQUENCY 7.5Hz | STATION INTERVAL 330' |
| REMARKS 8ms Sample RATE / 52sec Record | | OBSERVER M. Richey | | PARTY MGR. J. Davis | |

OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

Exploration Services
Division
Geosource Inc.

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|-------------------------|--------------------------------|-------------------------|-----------------------|------------------------|
| CLIENT COCORP | AREA Southern Calif. | STATE Calif. | COUNTY Keen | DATE 3-22-82 |
| CREW NO. 6834 | TERRAIN Dirt Road | WEATHER clear | | LINE NO. 2 |

| REC.NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN | TAPE RL.NO. | F I L T E R | | | RE MARKS |
|---------|-------------|-----------------|---------|--------|------------|-----------------|-------------|------|-----|--|
| | | | | | | | LOCUT | 60 ~ | AMP | |
| 1 | 253 | 341 | 214-309 | 19 | 4 | MISSA Sweep 756 | OUT | IN | 50% | |
| 2 | 254 | 342 | 215-310 | 20 | | 756 | | | 50% | E.O. + #756, TAPE MKTS. |
| 3 | 255 | 343 | 216-311 | 21 | wind strip | 757 | | | 60% | B.O. + #757, 900 msec All ones |
| 4 | 256 | 343 | 216-311 | 21 | | | | | 50% | PICKING UP NOISE FROM HI-WAY STA# 345-346. |
| 5 | 257 | 324 | 329-423 | 18 | | | | | 50% | C.D.P 15 18-113 - 1-95 LINE. |
| 6 | 258 | 325 | 330-423 | 19 | | | | | 50% | C.D.P 15 19-114 - 1-94 LINE. |
| 7 | 259 | 326 | 331-423 | 20 | | | | | 50% | C.D.P 15 20-115 - 1-93 LINE |
| 8 | 260 | 327 | 332-423 | 21 | | | | | 50% | C.D.P 15 21-116 - 1-92 LINE |
| 9 | 261 | 328 | 333-423 | 22 | | | | | 50% | C.D.P 15 22-117 - 1-91 LINE |
| 10 | | | | | | | | | | |
| 11 | | | | | | | | | | |
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|---------------------|--|------------------------------|---------------|----------------|--------------------|------------------|--------------------------|--------------|---------------|------------------|--|
| TOTAL SETUPS | | TOTAL SWEEPS | | TOTAL COVERAGE | | TOTAL FIELD TIME | | DRIVING TIME | | SYSTEM NO. | |
| SWEEP FREQUENCY | | | SWEEP PATTERN | | SWEEPS PER PATTERN | | SWEEP PATTERNS PER SETUP | | PATCH PATTERN | | |
| GEOPHONES PER PATCH | | NO. OF RECORDING PATCHES | | TYPE VIBRATOR | | TYPE GEOPHONE | | FREQUENCY | | STATION INTERVAL | |
| REMARKS | | OBSERVER M. Rickey | | | | | PARTY MGR. | | | | |

OBSERVER'S REPORT DIGITAL VIBROSEIS RECORDER

Exploration Services
Division
Geosource Inc.

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| CLIENT COCORP | | | AREA SOUTHERN CALIFORNIA | | | STATE CALIF. | | COUNTY KERN | | DATE 3/23/82 | |
|---|-------------|--------------------------------|-----------------------------|--|------------|-------------------------------|------------------|---------------------------|---------------|---|------------|
| CREW NO. 6834 | | | TERRAIN DIRT ROAD | | | WEATHER NICE-CLEAR | | | LINE NO. 2 | | |
| REC. NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN | TAPE RL. NO. | FILTER | | | REMARKS | |
| | | | | | | | LOCUT | 60 ~ | AMP | | |
| 1 | 933 | PULSE | 1-6 secs | | | 757 | OUT | IN | | RECORDER SET UP AT 383-384 | |
| 2 | 934/935 | EINT | 2-6 | | | | | | | PICKING UP NOISE FROM HWY ^{DET} STNS 345 & 346 | |
| 3 | 936/937 | DRD | 4-6 | | | | | | | VIBRATOR # 23651 DOWN - BAD INJECTOR PUMP | |
| 4 | 953/954 | SURF TEST | 2-6 | | | | | | | | |
| 5 | 960/961 | NRS TEST | 2-6 | | | | | | | | |
| 6 | 932 | SIMILARITY | 1-32 secs | 217 | 4 | | | | 30% | | |
| 7 | 262 | WINDSTRIP | 1-32 SECS | 23 | | | | | 70 DB | | |
| 8 | 263 | 329 | 334-423 | 23 | | 757 | | | 50% | E.O.T #757 TAPE MKT, ON STA# 330 | |
| 9 | 264 | 330 | 324-335-419 | 13 | | 757 | | | 50% | 10 STN GAP - 5 STNS BEFORE VIBS & 5 STNS AFTER VIBS | |
| 10 | 265 | 331 | 325-336-420 | 14 | WIND STRIP | 758 | | | 70db | B.O.T #758, 900 10sec ALL ONES. | |
| 11 | 266 | 331 | 325-336-420 | 14 | | | | | 50% | | |
| 12 | 267 | 332 | 326-337-421 | 15 | | | | | 50% | | |
| 13 | 268 | 333 | 327-338-422 | 16 | | | | | 50% | | |
| 14 | 269 | 334 | 328-339-423 | 17 | | | | | 50% | | |
| 15 | SKIP | 335 | 328-339-423 | 17 | | | | | SKIP | Due to HOUSE. | |
| 16 | 270 | 336 | 328-330-341-423 | 17 | | | | | 50% | STACKED LAST HALF. | |
| 17 | 271 | 337 | 328-331-342-423 | 17 | | | | | 50% | | |
| 18 | 272 | 338 | 328-332-343-423 | 17 | | | | | 50% | STACKED 1st HALF. | |
| 19 | 273 | 339 | 328-333-344-423 | 17 | | | | | 50% | | |
| 20 | 274 | 340 | 328-334-345-423 | 17 | | | | | 50% | | |
| 21 | 275 | 341 | 328-335-346-423 | 17 | | | | | 50% | | |
| 22 | 276 | 342 | 328-336-347-423 | 17 | | | | | 50% | | |
| 23 | 277 | 343 | 328-337-348-423 | 17 | | 758 | | | 50% | F.O.T #758, TAPE MKTS. | |
| 24 | 278 | 344 | 328-338-349-423 | 17 | WIND STRIP | 759 | | | 70db | B.O.T #759, 900 10sec ALL ONES | |
| 25 | 279 | 344 | 328-338-349-423 | 17 | | | | | 50% | | |
| TOTAL SETUPS | | TOTAL SWEEPS | | TOTAL COVERAGE | | | TOTAL FIELD TIME | | DRIVING TIME | | SYSTEM NO. |
| SWEEP FREQUENCY 8-32 Hz | | SWEEP PATTERN 4163 | | SWEEPS PER PATTERN 8 | | SWEEP PATTERNS PER SETUP 1 | | PATCH PATTERN X | | | |
| GEOPHONES PER PATCH 24 | | NO. OF RECORDING PATCHES 96 | | TYPE VIBRATOR 4-Y 1100'S 1-Y 900 | | TYPE GEOPHONE ETL22B | | FREQUENCY 75 Hz | | STATION INTERVAL 330' | |
| REMARKS 8 MS SAMPLE RATE/52 SEC RECORD | | OBSERVER M. RICHEY | | PARTY MGR. L. DAVIS | | | | | | | |

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division
Geosource Inc.**

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|-------------------------|-------------------------------|-------------------------|-----------------------|------------------------|
| CLIENT COCORP | AREA southern CALIF | STATE CALIF | COUNTY Kern | DATE 3-23-82 |
| CREW NO. 6834 | TERRAIN Dirt Road | WEATHER clear | | LINE NO. 2 |

| REC.NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN | TAPE RL.NO. | F I L T E R | | | RE MARKS |
|---------|-------------|--------------------|---------|--------|-------------------------|-------------|-------------|------|------|---------------------------------|
| | | | | | | | LOGUT | 60 ~ | AMP | |
| 1 | SKIP | 328-339-340-423-17 | | 4 | ^{missed} Sweep | 759 | OUT | IN | SKIP | Due to HI-WAY |
| 2 | 280 | 328-340-351-423-17 | | | 1 | | | | 50% | |
| 3 | 281 | 328-341-352-423-17 | | | | | | | 50% | BLASTING IN AREA. |
| 4 | 282 | 328-342-353-423-17 | | | | | | | 50% | |
| 5 | 283 | 328-343-354-423-17 | | | | | | | 50% | |
| 6 | 284 | 328-344-355-423-17 | | | | | | | 50% | |
| 7 | 285 | 328-345-356-423-17 | | | | | | | 50% | |
| 8 | 286 | 328-346-357-423-17 | | | | | | | 50% | |
| 9 | 287 | 328-347-358-423-17 | | | | | | | 50% | |
| 10 | 288 | 328-348-359-423-17 | | | | | | | 50% | |
| 11 | 289 | 328-349-360-423-17 | | | | | | | 50% | |
| 12 | 290 | 328-350-361-423-17 | | | | 759 | | | 50% | E.O.T *759, TAPE MKTS. |
| 13 | 291 | 328-351-362-423-17 | | | wind strip | 760 | | | 60% | B.O.T *760, 900 10sec ALL ONES. |
| 14 | 292 | 328-351-362-423-17 | | | | | | | 50% | |
| 15 | 293 | 328-352-363-423-17 | | | | | | | 50% | |
| 16 | 294 | 328-353-364-423-17 | | | | | | | 50% | |
| 17 | 295 | 328-354-365-423-17 | | | | | | | 50% | |
| 18 | 296 | 328-355-366-423-17 | | | | | | | 50% | BLASTING IN AREA. |
| 19 | 297 | 328-356-367-423-17 | | | | | | | 50% | |
| 20 | 298 | 328-357-368-423-17 | | | | | | | 50% | |
| 21 | 299 | 328-358-369-423-17 | | | | | | | 50% | |
| 22 | 300 | 328-359-370-423-17 | | | | | | | 50% | |
| 23 | 301 | 328-360-371-423-17 | | | | | | | 50% | |
| 24 | 302 | 328-361-372-423-17 | | | | | | | 50% | |
| 25 | 303 | 328-362-373-423-17 | | | | 760 | | | 50% | E.O.T *760, TAPE MKTS |

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| TOTAL SETUPS | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME | SYSTEM NO. |
| SWEEP FREQUENCY | SWEEP PATTERN | SWEEPS PER PATTERN | SWEEP PATTERNS PER SETUP | PATCH PATTERN | |
| GEOPHONES PER PATCH | NO. OF RECORDING PATCHES | TYPE VIBRATOR | TYPE GEOPHONE | FREQUENCY | STATION INTERVAL |
| REMARKS | | | OBSERVER <i>M. Richey</i> | PARTY MGR. | |

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division
Geosource Inc.**

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| CLIENT COCORP | AREA Southern CALIF | STATE CALIF | COUNTY Kern | DATE 3-23-82 |
| CREW NO. 6834 | TERRAIN Dirt Road | WEATHER clear | LINE NO. # 2 | |

| REC.NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN | TAPE RL.NO. | FILTER | | | REMARKS |
|---------|-------------|---|---------|--------|-------------------------|-------------|--------|------|------|---------------------------------|
| | | | | | | | LOCUT | 60 ~ | AMP | |
| 1 | 304 | 328-363-374-423-17 <i>WIND STOP</i> | | 4 | Missed Sweep | 761 | OUT | IN | 70Db | B.O.T, #761, 900 10sec All ones |
| 2 | 305 | 328-363-374-423-17 | | | 1 | | | | | 50% |
| 3 | 306 | 328-364-375-423-17 | | | | | | | | 50% |
| 4 | 307 | 328-365-376-423-17 | | | | | | | | 50% |
| 5 | 308 | 328-366-377-423-17 | | | | | | | | 50% |
| 6 | 309 | 328-367-378-423-17 | | | | | | | | 50% |
| 7 | 310 | 328-368-379-423-17 | | | | | | | | 50% |
| 8 | 311 | 328-369-380-423-17 | | | | | | | | 50% |
| 9 | 312 | 328-370-381-423-17 | | | | | | | | 50% |
| 10 | 313 | 328-371-382-423-17 | | | | | | | | 50% |
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|---------------------|--|--------------------------|---------------|----------------|--------------------|------------------------------|--------------------------|--------------|---------------|------------------|--|
| TOTAL SETUPS | | TOTAL SWEEPS | | TOTAL COVERAGE | | TOTAL FIELD TIME | | DRIVING TIME | | SYSTEM NO. | |
| SWEEP FREQUENCY | | | SWEEP PATTERN | | SWEEPS PER PATTERN | | SWEEP PATTERNS PER SETUP | | PATCH PATTERN | | |
| GEOPHONES PER PATCH | | NO. OF RECORDING PATCHES | | TYPE VIBRATOR | | TYPE GEOPHONE | | FREQUENCY | | STATION INTERVAL | |
| REMARKS | | | | | | OBSERVER <i>M. Riehey</i> | | | PARTY MGR. | | |

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Exploration Services
Division
Geosource Inc.**

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| CLIENT COCORP | AREA southern California | STATE CALIF | COUNTY Kern | DATE 3-24-82 |
| CREW NO. 6834 | TERRAIN Dirt Road | WEATHER partly cloudy | LINE NO. #2 | |

| REC. NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN | TAPE RL. NO. | FILTER | | | REMARKS |
|----------|----------------|--------------------|---------|--------|--------------|--------------|--------|------|------|---|
| | | | | | | | LOCUT | 60 ~ | AMP | |
| 1 | Pulse | 1-6sec | | | missed sweep | 761 | OUT | IN | | Recorder SET AT 383-384 |
| 2 | EINT | 2-11 " | | | | | | | | |
| 3 | D.R.D | 4-11 " | | | | | | | | Vib #23657 DOWN, BAD INJECTOR PUMP |
| 4 | sumtest | 2-11 " | | | | | | | | |
| 5 | N.P.S test | 2-11 " | | | | | | | | |
| 6 | 932 Similarity | 1-32sec | 217 | 4 | | 761 | | | 30% | E.O.T #761, TAPE MKTS. |
| 7 | 314 WINDstrip | 1-52sec | | | | 762 | | | 66Db | 10 STA # GAP - 5 STA BEFORE Vibs - 5 STA AFTER Vibs |
| 8 | 315 378 | 328-372-383-423-17 | | 4 | | | | | 50% | B.O.T #762, 900 10sec ALL OWES |
| 9 | 316 379 | 328-373-384-423-17 | | | | | | | 50% | |
| 10 | 317 380 | 328-374-385-423-17 | | | | | | | 50% | |
| 11 | 318 381 | 328-375-386-423-17 | | | | | | | 50% | |
| 12 | 319 382 | 328-376-387-423-17 | | | | | | | 50% | |
| 13 | 320 383 | 328-377-388-423-17 | | | | | | | 50% | |
| 14 | 321 384 | 328-378-389-423-17 | | | | | | | 50% | |
| 15 | 322 385 | 328-379-390-423-17 | | | | | | | 50% | |
| 16 | 323 386 | 328-380-391-423-17 | | | | | | | 50% | |
| 17 | 324 387 | 328-381-392-423-17 | | | | 762 | | | 50% | E.O.T #762, TAPE MKTS |
| 18 | 325 388 | 328-382-393-423-17 | | | WIND strip | 763 | | | 66Db | B.O.T #763, 900 10sec ALL OWES. |
| 19 | 326 388 | 328-382-393-423-17 | | | | | | | 50% | |
| 20 | 327 389 | 328-383-394-423-17 | | | | | | | 50% | |
| 21 | 328 390 | 328-384-395-423-17 | | | | | | | 50% | |
| 22 | 329 391 | 328-385-396-423-17 | | | | | | | 50% | |
| 23 | 330 392 | 328-386-397-423-17 | | | | | | | 50% | |
| 24 | 331 393 | 328-387-398-423-17 | | | | 763 | | | 50% | E.O.T #763, TAPE MKTS |
| 25 | | | | | | | | | | E.O.L #2 |

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|---|--------------------------------|--------------------------------------|-------------------------------|-------------------------|--------------------------|
| TOTAL SETUPS | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME | SYSTEM NO. |
| SWEEP FREQUENCY 8732Hz/32sec | SWEEP PATTERN 4/63 | SWEEPS PER PATTERN 8 | SWEEP PATTERNS PER SETUP 1 | PATCH PATTERN X | |
| GEOPHONES PER PATCH 24 | NO. OF RECORDING PATCHES 96 | TYPE VIBRATOR 4-y1100's 1-y900 | TYPE GEOPHONE ETE1223 | FREQUENCY 7.5 Hz | STATION INTERVAL 330' |
| REMARKS 8ms SAMPLE RATE / 52sec Recorder | OBSERVER M. Richey | PARTY MGR. L. Davis | LINE DIR. 1 TO 24 N75 | | |