

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

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

p.1

| | | | | |
|---------------------------|----------------------------------|------------------------------------|--------------------------|------------------------|
| CLIENT CO-CORP. | AREA Wind River uplift | STATE WYO | COUNTY FREMONT | DATE 11-4-77 |
| CREW NO. 6806 | TERRAIN Rolling hills | WEATHER Clear light wind | LINE NO. 2 | |

| REC. NO. | SWEEP POINT | PATCH LOCATIONS | COP SW. | NO VIB | AMP GAIN | TAPE RL. NO. | F I L T E R | | | REMARKS |
|----------|-------------|-----------------|---------|--------|----------|--------------|-------------|------|-----|---------------------------------------|
| | | | | | | | LOCUT | 60 ~ | AMP | |
| 900 | | | | | | | | | | Recorder set-up 5/60 |
| 1 934 | EINT | | | | | | | | | |
| 2 935 | | | | | | | | | | |
| 3 936 | DAD'S | | | | | | | | | |
| 4 939 | | | | | | | | | | |
| 5 001 | 7 | 1-3 11-95 | 037 | 5 | MAX | 25 | 9 | 0 | 312 | Vib's offset 100' left |
| 6 002 | 8 | 1-4 12-96 | 036 | " | | | | | | " " 150' " |
| 7 003 | 9 | 1-5 13-97 | 035 | " | | | | | | " " 150' " |
| 8 004 | 10 | 1-6 14-98 | 034 | " | | | | | | " " 110' " |
| 9 005 | 11 | 1-7 15-99 | 033 | " | | | | | | " " 60' " |
| 10 006 | 12 | 1-8 16-100 | 032 | " | | | | | | NORMAL |
| 11 007 | 13 | 1-9 17-101 | 031 | " | | | | | | " |
| 12 008 | 14 | 1-10 18-102 | 030 | " | | | | | | " |
| 13 009 | 15 | 1-11 19-103 | 029 | " | | | | | | |
| 14 | | | | | | | | | | |
| 15 | | | | | | | | | | |
| 16 | | | | | | | | | | At this point repositioned COP switch |
| 17 | | | | | | | | | | to pick up 7 additional STA. on REAR |
| 18 | | | | | | | | | | |
| 19 | | | | | | | | | | |
| 20 | | | | | | | | | | |
| 21 | | | | | | | | | | |
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|---|---------------------------------------|--|--------------------------------------|--|---------------------------------|
| TOTAL SETUPS | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME | SYSTEM NO. |
| SWEEP FREQUENCY 8-32 x 30 sec | SWEEP PATTERN inline | SWEEPS PER PATTERN 5 x 16 = 80 | SWEEP PATTERNS PER SETUP 1 | PATCH PATTERN weighted ARRAY | |
| GEOPHONES PER PATCH 24 | NO. OF RECORDING PATCHES 96 | TYPE VIBRATOR Y-900 | TYPE GEOPHONE EV-22B | FREQUENCY 7.5 | STATION INTERVAL 330' |
| REMARKS | | | OBSERVER DAVE MURRAY | PARTY MGR. WALLY PIRIE | |

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

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

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| | | | | |
|---------------------------|----------------------------------|-------------------------|--------------------------|------------------------|
| CLIENT CO-CORP. | AREA wind river uplift | STATE Wyo. | COUNTY FREMONT | DATE 11-5-77 |
| CREW NO. 6806 | TERRAIN Rolling Hills | WEATHER Clear | LINE NO. 2 | |

| REC. NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN | TAPE RL. NO. | F L T E R | | | REMARKS | | |
|----------|----------------|-----------------|-------------------|----------------|--------------|--------------|-----------|------|-----|---------|--------------|--|
| | | | | | | | LOCUT | 60 ~ | AMP | | | |
| 1 | 934 | E 1st | | | | | | | | | | |
| 2 | 935 | | | | | | | | | | | |
| 3 | 936 | | | | | | | | | | | |
| 4 | 939 | | DRAWS | | | | | | | | | |
| *5 | 010 | 16 | | 1-12 20-97 | 035 | 5 | MAX | 25 | 9 | 0 | 31.2 | NOTE FRONT STA. CHANGED TO allow CDP switch to pick additional stations on rear (NORMAL) |
| 6 | 011 | 17 | | 1-13 21-98 | 034 | " | | | | | | NORMAL |
| 7 | 012 | 18 | | 1-14 22-99 | 033 | " | | | | | | " |
| *8 | 013 | 19 | 1-15 23-100 | 032 | " | | | | | | " | END REEL # 25 |
| 9 | 014 | 20 | 1-16 24-101 | 031 | " | | 26 | | | | " | START REEL # 26 |
| 10 | 015 | 21 | 1-17 25-102 | 030 | " | | | | | | " | |
| 11 | 016 | 22 | 1-18 26-103 | 029 | " | | | | | | " | VIB'S OFFSET RIGHT 110' |
| 12 | 017 | 23 | 27-122 | 010 | 5 | | | | | | " | " (GO BACK TO NORMAL) |
| 13 | 017 | 23 | 27-122 | 010 | 5 | | | | | | " | VIB'S OFFSET RIGHT 150' (96 TRACE RECORD ONLY) # 23 |
| 14 | 018 | 24 | 28-123 | 009 | " | | | | | | " | " " " 110' |
| 15 | 019 | 25 | 29-124 | 008 | " | | | | | | " | NORMAL |
| *16 | 020 | 27 | 31-126 | 006 | " | | | | | | " | VIB'S OFFSET LEFT 130' |
| 17 | 021 | 29 | 33-128 | 004 | " | | | | | | " | " " " 30' |
| 18 | 022 | 31 | 35-130 | 002 | " | | | | | | " | NORMAL |
| 19 | 023 | 32 | 36-131 | 001 | " | | | | | | " | VIB'S OFFSET LEFT 200' (MOVE RECORDER) |
| 20 | 024 | 33 | 37-133 | 024 | " | | | | | | " | " " " 220' Recorder set-up 8/84 |
| 21 | 025 | 35 | 39-134 | 022 | " | | | | | | " | NORMAL |
| 22 | 026 | 37 | 41-136 | 020 | " | | | | | | " | VIB. OFFSET LEFT 160' |
| 23 | 027 | 38 | 42-137 | 019 | " | | | | | | " | " " " 235' END OF REEL # 26 |
| 24 | 028 | 39 | 43-138 | 018 | " | | 27 | | | | " | " " " 200' START REEL # 27 |
| 25 | 029 | 41 | 45-140 | 016 | " | | | | | | " | " " " 440' |

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|---|---------------------------------------|--|---------------------------------------|--|---------------------------------|
| TOTAL SETUPS | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME | SYSTEM NO. |
| SWEEP FREQUENCY 8.32 x 30 sec | SWEEP PATTERN inline | SWEEPS PER PATTERN 5 x 16 = 80 | SWEEEP PATTERNS PER SETUP 1 | PATCH PATTERN weighted ARRAY | |
| GEOPHONES PER PATCH 24 | NO. OF RECORDING PATCHES 96 | TYPE VIBRATOR 4-900 | TYPE GEOPHONE EV-22B | FREQUENCY 7.5 Hz | STATION INTERVAL 330' |
| REMARKS | | | OBSERVER DAVE MURRAY | PARTY MGR. DALLY Pirie | |

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

**Petty-Ray Geophysical
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Geosource Inc.**

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|---------------------------|--------------------------------|----------------------|--------------------------|------------------------|
| CLIENT <i>CO-CORP.</i> | AREA <i>wind River upST</i> | STATE <i>wyo.</i> | COUNTY <i>FREMONT</i> | DATE <i>11-5-77</i> |
| CREW NO. <i>6806</i> | TERRAIN | WEATHER | | 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 | 030 | 47-142 | 014 | 5 | MAX | 27 | 9 | 0 | 31.2 | <i>1/65 offset Left 360</i> |
| 2 | | | | | | | | | | |
| 3 | | | | | | | | | | |
| 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 <i>DAVE MURRAY</i> | PARTY MGR. <i>WALLY PIRIE</i> | |

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DIGITAL VIBROSEIS RECORDER**

**Petty-Ray Geophysical
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Geosource Inc.**

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| | | | | |
|--------------------------|-----------------------------------|-------------------------|--------------------------|------------------------|
| CLIENT CO-CORP | AREA Wind River up lift | STATE Wyo. | COUNTY FREMONT | DATE 11-7-77 |
| CREW NO. 6806 | TERRAIN 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 | 934 | EINT DRAS | | | | | | | | Recorder set-up 11/9/77 |
| 2 | 935 | | | | | | | | | Five open patches find & replace cables (3) |
| 3 | 936 | | | | | | | | | |
| 4 | 939 | | | | | | | | | |
| 5 | 031 | 44 | 48-143 | 049 | 5 | MAX 20 | 9 | 0 | 31.2 | Vib's offset Left 210' |
| 6 | 032 | 45 | 49-144 | 048 | " | | | | | " " " 150' |
| 7 | 033 | 47 | 51-146 | 046 | " | | | | | " " " 60' |
| 8 | 034 | 49 | 53-148 | 044 | " | | | | | " " " 120' |
| 9 | 035 | 51 | 55-150 | 042 | " | | | | | " " " 700' |
| 10 | 036 | 52 | 56-151 | 041 | " | | | | | " " " 650' |
| 11 | 037 | 53 | 57-152 | 040 | " | | | | | " " " 390' |
| 12 | 038 | 55 | 59-154 | 038 | " | | | | | NORMAL |
| 13 | 039 | 57 | 61-156 | 036 | " | | | | | Vib's offset Right 110' |
| 14 | 040 | 59 | 63-158 | 034 | " | | | | | NORMAL |
| *15 | 041 | 60 | 64-159 | 033 | " | 27 | | | | " " " END REEL # 27 |
| 16 | 042 | 61 | 65-160 | 032 | " | 28 | | | | Vib's offset Left 230' START REEL # 28 |
| 17 | 043 | 63 | 67-162 | 030 | " | | | | | " " " 320' |
| 18 | 044 | 65 | 69-164 | 028 | " | | | | | " " " 380' |
| 19 | 045 | 66 | 70-165 | 027 | " | | | | | " " " 295' |
| 20 | 046 | 67 | 71-166 | 026 | " | | | | | " " " 260' |
| 21 | 047 | 69 | 73-168 | 024 | " | | | | | " " " 70' |
| 22 | 048 | 71 | 75-170 | 022 | " | | | | | " " Right 220' |
| 23 | 049 | 73 | 77-172 | 020 | " | | | | | " " " 210' |
| 24 | 050 | 74 | 78-173 | 019 | " | | | | | " " " 40' |
| 25 | 051 | 75 | 79-174 | 018 | " | | | | | " " " 70' |

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|---|---------------------------------------|--------------------------------------|--------------------------------------|--|---------------------------------|
| TOTAL SETUPS | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME | SYSTEM NO. |
| SWEEP FREQUENCY 8-32 x 30 sec | SWEEP PATTERN inline | SWEEPS PER PATTERN 5x16=80 | SWEEP PATTERNS PER SETUP 1 | PATCH PATTERN weighted ARRAY | |
| GEOPHONES PER PATCH 24 | NO. OF RECORDING PATCHES 96 | TYPE VIBRATOR Y-900 | TYPE GEOPHONE EV-22 B | FREQUENCY 7.5N | STATION INTERVAL 330' |
| REMARKS 0-1320' — 32,600' | | | OBSERVER DAVE MURRAY | PARTY MGR. WALLY PITIE | |

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

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**Petty-Ray Geophysical
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Geosource Inc.

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|---------------------------|----------------------------------|---------------------|--------------------------|------------------------|
| CLIENT <i>CO-CORP.</i> | AREA <i>wind River uplift</i> | STATE <i>Wyo</i> | COUNTY <i>FREMONT</i> | DATE <i>11-7-77</i> |
| CREW NO. <i>6806</i> | TERRAIN | WEATHER | 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 | | | RE MARKS |
|---------|-------------|-----------------|---------|--------|----------|-------------|-------------|------|------|----------|
| | | | | | | | LOCUT | 60 ~ | AMP | |
| 1 | 77 | 81-176 | 016 | 5 | MAX | 28 | 9 | 0 | 31.2 | NORMAL |
| 2 | 79 | 83-178 | 014 | " | | | | | | " |
| 3 | 81 | 85-180 | 012 | " | | | | | | " |
| 4 | 82 | 86-181 | 011 | " | | 29 | | | | " |
| 5 | 83 | 87-182 | 010 | " | | " | | | | " |
| 6 | | | | | | | | | | |
| 7 | | | | | | | | | | |
| 8 | | | | | | | | | | |
| 9 | | | | | | | | | | |
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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>DAVE MURRAY</i> | PARTY MGR. <i>WALLY PIRIE</i> | |

**OBSERVER'S REPORT
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Geosource Inc.**

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|--------------------------|----------------------------------|------------------------|--------------------------|------------------------|
| CLIENT CO-CORP | AREA Wind River UPLIFT | STATE WYO. | COUNTY FREMONT | DATE 11-8-77 |
| CREW NO. 6806 | TERRAIN Rolling hills | WEATHER Snow | LINE NO. 2 | |

| REC. NO. | SWEEP POINT | PATCH LOCATIONS | QDP SW. | NO VIB | AMP GAIN | TAPE RL. NO. | F I L T E R | | | REMARKS |
|----------|-------------|-----------------|-----------|--------|----------|--------------|-------------|------|------|--|
| | | | | | | | LOCUT | 60 ~ | AMP | |
| 1 | 934 | E INT | | | | | | | | Recorder long 90 ground check about 42 miles |
| 2 | 935 | | | | | | | | | |
| 3 | 936 | DRDS | | | | | | | | |
| 4 | 939 | | | | | | | | | |
| 5 | 057 | 85 | 89 - 184 | 046 | 5 | MAX 29 | 9 | 0 | 31.2 | Normal |
| * 6 | 058 | 87 | 91 - 186 | 044 | " | | | | | " |
| * 7 | 059 | 89 | 93 - 188 | 042 | " | | | | | " |
| 8 | 060 | 90 | 94 - 189 | 041 | " | | | | | " |
| 9 | 061 | 91 | 95 - 190 | 040 | " | | | | | " |
| 10 | 062 | 93 | 97 - 192 | 038 | " | | | | | " |
| 11 | 063 | 95 | 99 - 194 | 036 | " | | | | | " |
| 12 | 064 | 97 | 101 - 196 | 034 | " | | | | | " |
| * 13 | 065 | 98 | 102 - 197 | 033 | " | | | | | " |
| 14 | 066 | 99 | 103 - 198 | 032 | " | | | | | " |
| 15 | 067 | 101 | 105 - 200 | 030 | " | 29 | | | | END OF REEL # 29 |
| 16 | 068 | 103 | 107 - 202 | 028 | " | 30 | | | | START OF REEL # 30 |
| 17 | 069 | 105 | 109 - 204 | 026 | " | | | | | " |
| 18 | 070 | 107 | 111 - 206 | 024 | " | | | | | " |
| 19 | 071 | 109 | 113 - 208 | 022 | " | | | | | " |
| 20 | 072 | 111 | 115 - 210 | 020 | " | | | | | " |
| 21 | 073 | 113 | 117 - 212 | 018 | " | | | | | " |
| 22 | 074 | 115 | 119 - 214 | 016 | " | | | | | " |
| 23 | 075 | 117 | 121 - 216 | 014 | " | | | | | " |
| 24 | 076 | 119 | 123 - 218 | 012 | " | | | | | " |
| 25 | 077 | 121 | 125 - 220 | 010 | " | | | | | " |

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|---|---------------------------------------|--|--------------------------------------|--|---------------------------------|
| TOTAL SETUPS | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME | SYSTEM NO. |
| SWEEP FREQUENCY 8-32 x 30 sec | SWEEP PATTERN in line | SWEEPS PER PATTERN 5 x 16 = 80 | SWEEP PATTERNS PER SETUP 1 | PATCH PATTERN weighted ARRAY | |
| GEOPHONES PER PATCH 24 | NO. OF RECORDING PATCHES 96 | TYPE VIBRATOR 4-900 | TYPE GEOPHONE EV-22 B | FREQUENCY 7.5 Hz | STATION INTERVAL 330' |
| REMARKS 0-1320' — 32 600' | OBSERVER DAVE MURRAY | PARTY MGR. WALLY PIRIE | | | |

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

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Division
Geosource Inc.**

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| | | | | |
|--------------------------|---------------------------------|-------------------------|--------------------------|------------------------|
| CLIENT CO-CORP | AREA Wind River UPIET | STATE WYO. | COUNTY FREMONT | DATE 11-9-77 |
| CREW NO. 6806 | TERRAIN 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 | | | |
| | | | | | | | | | | Recorder set-up $\frac{191}{192}$ | | |
| 1 | 934 | EINT DRO'S | | | | | | | | | | |
| 2 | 935 | | | | | | | | | | | |
| 3 | 936 | | | | | | | | | | | |
| 4 | 939 | | | | | | | | | | | |
| 5 | 078 | 123 | 127 - 222 | 042 | 5 | MAX | 30 | 9 | 0 | 31.2 | NORMAL | |
| 6 | 079 | 125 | 129 - 224 | 040 | " | | | | | | " | |
| *7 | 080 | 127 | 131 - 226 | 038 | 1 | | 30 | | | | " | END OF REEL # 30 |
| 8 | 081 | 129 | 133 - 228 | 036 | 1 | | 31 | | | | " | START OF REEL # 31 |
| *9 | 082 | 131 | 135 - 230 | 034 | " | | | | | | " | |
| 10 | 083 | 133 | 137 - 232 | 032 | " | | | | | | " | |
| 11 | 084 | 135 | 139 - 234 | 030 | " | | | | | | " | Vib's. offset Right 60' |
| 12 | 085 | 137 | 141 - 236 | 028 | " | | | | | | " | " " " 240' |
| 13 | 086 | 139 | 143 - 238 | 026 | " | | | | | | " | " " " 80' |
| 14 | 087 | 141 | 145 - 240 | 024 | " | | | | | | " | Vib. offset left 200' |
| 15 | 088 | 143 | 147 - 242 | 022 | " | | | | | | " | " " " 210' |
| 16 | 089 | 145 | 149 - 244 | 020 | " | | | | | | " | " " " 530' |
| 17 | 090 | 147 | 151 - 246 | 018 | " | | | | | | " | " " " 870' |
| 18 | 091 | 149 | 153 - 248 | 016 | " | | 30 | END REEL | 30 | | " | " " " 1000' (Vib's long go around |
| 19 | 092 | 151 | 155 - 250 | 014 | " | | 32 | START REEL | 32 | | " | " " " 740' CREEK ABOUT 55 MILES $\frac{1}{2}$ HRS |
| *20 | 093 | 153 | 157 - 252 | 012 | " | | | | | | " | " " Right 310' |
| 21 | 094 | 155 | 159 - 254 | 010 | " | | | | | | " | " " " 620' |
| *22 | 095 | 157 | 161 - 256 | 008 | " | | | | | | " | " " " 170' |
| 23 | 096 | 159 | 163 - 258 | 006 | " | | | | | | " | " " Left 360' |
| 24 | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | |

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|---|---------------------------------------|---------------------------------|--|--------------------------------------|--|
| TOTAL SETUPS | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME | SYSTEM NO. |
| SWEEP FREQUENCY 8-32 X 30 sec | | SWEEP PATTERN in line | SWEEPS PER PATTERN 5 X 16 = 80 | SWEEP PATTERNS PER SETUP 1 | PATCH PATTERN Weighted ARRAY |
| GEOPHONES PER PATCH 24 | NO. OF RECORDING PATCHES 96 | TYPE VIBRATOR Y-900 | TYPE GEOPHONE EV-22 B | FREQUENCY 7.5 ~ | STATION INTERVAL 330' |
| REMARKS 0 - 1320' - 32, 670' | | | OBSERVER DAVE MURRAY | PARTY MGR. Wahly Pirie | |

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Geosource Inc.**

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| | | | | |
|--------------------------|----------------------------------|-------------------------|--------------------------|-------------------------|
| CLIENT CO-CORP | AREA Wind River uplift | STATE WYO. | COUNTY FREMONT | DATE 11-10-77 |
| CREW NO. 6806 | TERRAIN 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 | 934 | EINT DROPS | | | | | | | | Recorder set-up $\frac{236}{237}$ | |
| 2 | 935 | | | | | | | | | | |
| 3 | 936 | | | | | | | | | | |
| 4 | 939 | | | | | | | | | | |
| 5 | 097 | 161 | 165 - 260 | 049 | 5 | MAX 32 | 9 | 0 | 31.2 | VIBS. offset Left 650' | WIND 10 MPH |
| 6 | 098 | 163 | 167 - 262 | 047 | " | | | | | " " " 850' | |
| 7 | 099 | 165 | 169 - 264 | 045 | " | | | | | " " " 1000' | |
| 8 | 100 | 167 | 171 - 266 | 043 | " | | | | | " " " 790' | |
| 9 | 101 | 169 | 173 - 268 | 041 | " | | | | | " " " 60' | |
| 10 | 102 | 171 | 175 - 270 | 039 | " | | | | | NORMAL | |
| 11 | 103 | 173 | 177 - 272 | 037 | " | | | | | " | |
| 12 | 104 | 175 | 179 - 274 | 035 | " | 32 | | | | VIBS. offset Right 210' | END Reel # 32 |
| 13 | 105 | 177 | 181 - 276 | 033 | " | 32 | | | | " " " 80' | START Reel # 32 |
| 14 | 106 | 179 | 183 - 278 | 031 | " | | | | | NORMAL | |
| 15 | 107 | 181 | 185 - 280 | 029 | " | | | | | " | |
| 16 | 108 | 183 | 187 - 282 | 027 | " | | | | | " | |
| 17 | 109 | 185 | 189 - 284 | 025 | " | | | | | VIBS offset Right 350' | |
| 18 | 110 | 187 | 191 - 286 | 023 | " | | | | | " " " 410' | WIND 7 MPH |
| 19 | 111 | 189 | 193 - 288 | 021 | " | | | | | " " " 60' | |
| 20 | 112 | 191 | 195 - 290 | 019 | " | | | | | NORMAL | |
| * 21 | 113 | 193 | 197 - 292 | 017 | " | | | | | VIBS. offset Right 220' | |
| * 22 | 114 | 195 | 199 - 294 | 015 | " | | | | | " " " 300' | |
| 23 | 115 | 197 | 201 - 296 | 013 | " | | | | | " " " 300' | |
| 24 | 116 | 199 | 203 - 298 | 011 | " | | | | | " " " 190' | |
| 25 | 117 | 201 | 205 - 300 | 009 | " | 32 | | | | " " LEFT 190' | END of Reel # 32 |

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|---------------------------------------|---------------------------------------|--|--------------------------------------|--|---------------------------------|
| TOTAL SETUPS 28 | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME | SYSTEM NO. |
| SWEEP FREQUENCY 8-32 X 305 | SWEEP PATTERN 1 in line | SWEEPS PER PATTERN 5 X 16 = 80 | SWEEP PATTERNS PER SETUP 1 | PATCH PATTERN Weighted ARRAY | |
| GEOPHONES PER PATCH 24 | NO. OF RECORDING PATCHES 96 | TYPE VIBRATOR Y-900 | TYPE GEOPHONE EV-22B | FREQUENCY 9.5 | STATION INTERVAL 330' |
| REMARKS 0 - 1320' - 32,670' | OBSERVER DAVE MURRAY | PARTY MGR. WALLY PIRIE | | | |

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

Petty-Ray Geophysical
Division
Geosource Inc.

P. 9

| | | | | |
|--------------------------|----------------------------------|----------------------|--------------------------|-------------------------|
| CLIENT CO-CORP | AREA wind River uplist | STATE WYO. | COUNTY FREMONT | DATE 11-10-77 |
| CREW NO. 6806 | TERRAIN | WEATHER | LINE NO. 2 | |

| | REC.NO. 900 | SWEEP POINT ALL ONES | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN | TAPE RL.NO. | F I L T E R | | | REMARKS |
|----|----------------|-------------------------|-----------------|---------|--------|----------|-------------|-------------|-----|------|--|
| | | | | | | | | LOCUT | 60~ | AMP | |
| 1 | 118 | 203 | 207-302 | 007 | 5 | MAX | 304 | 9 | 0 | 31.2 | V.I.S. OFFSET LEFT 460' START Reel # 34 |
| 2 | 119 | 205 | 209-304 | 005 | " | | | | | | " " " 60' |
| 3 | 120 | 207 | 211-306 | 003 | " | | | | | | NORMAL PICKING GAS PLANT FROM STA. 302-316 |
| 4 | 121 | 209 | 213-308 | 009 | " | | | | | | NORMAL MOVE RECORDER SETUP. 244/245 |
| 5 | 122 | 211 | 215-310 | 007 | " | | | | | | NORMAL |
| 6 | 123 | 213 | 217-312 | 005 | " | | | | | | V.I.S. OFFSET RIGHT 40' |
| 7 | 124 | 215 | 219-314 | 003 | " | | | | | | NORMAL |
| 8 | | | | | | | | | | | |
| 9 | | | | | | | | | | | |
| 10 | | | | | | | | | | | |
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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 DAVE MURRAY | PARTY MGR. WALLY PINIE | | LINE DIR. 1 TO 24 | |

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

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

P.1°

| | | | | |
|--------------------------|----------------------------------|-------------------------|--------------------------|-------------------------|
| CLIENT CO-CORP | AREA Wind River Uplift | STATE Wyo. | COUNTY FREMONT | DATE 11-11-77 |
| CREW NO. 6806 | TERRAIN Rolling Hills | WEATHER Clear | LINE NO. 2 | |

| REC. NO. | SWEEP POINT | PATCH LOCATIONS | CDP SW. | NO VIB | AMP GAIN | TAPE RL. NO. | F L T E R | | | REMARKS |
|----------|-------------|-----------------|-----------|-----------|----------|--------------|-----------|------|-----|---|
| | | | | | | | LOCUT | 60 ~ | AMP | |
| 1 | 934 | 2 FINT | | | | | | | | Recorder set-up 293/294 |
| 2 | 935 | 2 DRD'S | | | | | | | | GAS PLANT Big MOTORS running line runs right through plant STA 302 - 316 very noisy patches next 8 miles High pressure GAS line |
| 3 | 936 | | | | | | | | | |
| 4 | 939 | | | | | | | | | |
| 5 | 125 | | 217 | 221 - 316 | 050 | 5 | MAX | 34 | 9 | 0 |
| 6 | 126 | 218 | 222 - 317 | 049 | 11 | | | | | " |
| 7 | 127 | 219 | 223 - 318 | 048 | 11 | | | | | " |
| 8 | 128 | 220 | 224 - 319 | 047 | 11 | | | | | " |
| 9 | 129 | 221 | 225 - 320 | 046 | 11 | | | | | " |
| 10 | 130 | 222 | 226 - 321 | 045 | 11 | | 34 | | | Flow 900 ALL OKS END Reel # 33-34 |
| 11 | 131 | 223 | 227 - 322 | 044 | 11 | | 35 | | | START Reel # 34-35 |
| 12 | 132 | 224 | 228 - 323 | 043 | 11 | | | | | Vib's offset Left -100' |
| 13 | X | 225 | 229 - 324 | 042 | X | | | | | } SKIPS Rough PACK OUTS NO ROAD |
| 14 | X | 227 | 231 - 326 | 040 | X | | | | | |
| 15 | X | 229 | 233 - 328 | 038 | X | | | | | |
| 16 | X | 231 | 235 - 330 | 036 | X | | | | | |
| 17 | 133 | 233 | 237 - 332 | 034 | 5 | | | | | Vib's offset Right 110' WIND 8 MPH |
| 18 | 134 | 235 | 239 - 334 | 032 | 11 | | | | | " " " 90' |
| 19 | 135 | 237 | 241 - 336 | 030 | 11 | | | | | NORMAL |
| 20 | 136 | 239 | 243 - 338 | 028 | 11 | | | | | " |
| 21 | 137 | 241 | 245 - 340 | 026 | 11 | | | | | " |
| 22 | 138 | 243 | 247 - 342 | 024 | 11 | | | | | " |
| 23 | 139 | 245 | 249 - 344 | 022 | 11 | | | | | Vib's offset Left 180' |
| 24 | 140 | 247 | 251 - 346 | 020 | 11 | | | | | " " " 570' |
| 25 | 141 | 249 | 253 - 348 | 018 | 11 | | | | | " " " 760' |

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|---|--------------------------------|---------------------------------|--------------------------|-----------------------------------|--------------------------|
| TOTAL SETUPS | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME | SYSTEM NO. |
| SWEEP FREQUENCY 8-32 X 30 ^{sec} | | SWEEP PATTERN Wline | | SWEEPS PER PATTERN 5 X 16 = 80 | |
| SWEEP PATTERNS PER SETUP 1 | | PATCH PATTERN Weighted ARRAY | | | |
| GEOPHONES PER PATCH 24 | NO. OF RECORDING PATCHES 96 | TYPE VIBRATOR Y-900 | TYPE GEOPHONE EV-22 B | FREQUENCY 7.5 ~ | STATION INTERVAL 330' |
| REMARKS 0 — 1320' — 32670' | | | OBSERVER DAVE MURRAY | PARTY MGR. WALLY PIRIE | |

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

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

CLIENT CO-CORP AREA Wind RIVER uplift STATE WYO COUNTY FREMONT DATE 11-11-77
 CREW NO. 6806 TERRAIN _____ WEATHER _____ 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 | 142 | 255-350 | 016 | 5 | MAX | 35 | 9 | 0 | 31.2 | VIBS offset LEFT 420' |
| 2 | 143 | 257-352 | 014 | " | | | | | | " " " 130' END Reel # 35-35 |
| 3 | 144 | 259-354 | 012 | " | | 36 | | | | " " " 480' START Reel # 35-36 |
| 4 | 145 | 261-356 | 010 | " | | | | | | " " " 360' |
| 5 | 146 | 263-358 | 008 | " | | | | | | NORMAL |
| 6 | 147 | 265-360 | 006 | " | | | | | | " |
| 7 | 148 | 267-362 | 004 | " | | | | | | " |
| 8 | 149 | 269-364 | 002 | " | | | | | | " |
| 9 | | | | | | | | | | |
| 10 | | | | | | | | | | |
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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. | | | |

OBSERVER DAVE MURRAY PARTY MGR. WALLY PITRE

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

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

CLIENT CO-CORP AREA Wind River Uplift STATE WYO COUNTY FREMONT DATE 11-12-77
 CREW NO. 6806 TERRAIN Rolling Hills WEATHER Clear LINE NO. 2

| REC. NO. | SWEEP POINT | PATCH LOCATIONS | COP SW. | NO VIB | AMP GAIN | TAPE RL. NO. | FILTER | | | REMARKS | | |
|----------|-------------|-----------------|---------|--------|----------|--------------|--------|-----|-----|-----------------------------------|----------------------------------|--------------------|
| | | | | | | | LOCUT | 60~ | AMP | | | |
| 1 | 934 | E1-N1 DRO'S | | | | | | | | Recorder set-up $\frac{241}{242}$ | | |
| 2 | 935 | | | | | | | | | GAS PLANT FROM STA. 303 ——— 316 | | |
| 3 | 936 | | | | | | | | | Very noisy | | |
| 4 | 939 | | | | | | | | | | | |
| 5 | 150 | 267 | 271-366 | 048 | 5 | MAX | 360 | 9 | 0 | 312 | Normal | Wind 7 MPH |
| 6 | 151 | 268 | 272-367 | 047 | 11 | | | | | | " | |
| 7 | 152 | 269 | 273-368 | 046 | 11 | | | | | | " | |
| 8 | 153 | 270 | 274-369 | 045 | 11 | | | | | | Vib. offset Right 150' | |
| 9 | 154 | 271 | 275-370 | 044 | 11 | | | | | | " " " 230' | |
| 10 | X | 273 | 277-372 | 042 | X | | | | | | SHIPS Steep Hill | |
| 11 | X | 275 | 279-374 | 040 | X | | | | | | | |
| 12 | 155 | 277 | 281-376 | 038 | 5 | | | | | | Vib. offset Right 200' | |
| 13 | 156 | 279 | 283-378 | 036 | 11 | | | | | | " " best 50' END OF REEL # 35 36 | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | TO Windy Shut Down |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
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| 25 | | | | | | | | | | | | |

TOTAL SETUPS _____ TOTAL SWEEPS _____ TOTAL COVERAGE _____ TOTAL FIELD TIME _____ DRIVING TIME _____ SYSTEM NO. _____

SWEEP FREQUENCY 8-32 x 30 sec SWEEP PATTERN inline SWEEPS PER PATTERN 5 x 16 = 80 SWEEP PATTERNS PER SETUP 1 PATCH PATTERN Weighted ARRAY

GEOPHONES PER PATCH 24 NO. OF RECORDING PATCHES 96 TYPE VIBRATOR 4-900 TYPE GEOPHONE EV-22B FREQUENCY 7.5 Hz STATION INTERVAL 330' LINE DIR. 1 TO 24

REMARKS 0 - 1320' ——— 32,670' OBSERVER DAVE MURRAY PARTY MGR. Wahly Pirie

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

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

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|--------------------------|-----------------------------------|-------------------------|--------------------------|-------------------------|
| CLIENT CO-CORP | AREA Wind River up lift | STATE WYO | COUNTY FREMONT | DATE 11-14-77 |
| CREW NO. 6806 | TERRAIN 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 | | | |
| 900 | ALL ONES | | | | | | | | | Recorder Set up 352/358 | | |
| 1 | 934 | } EAST } VAD'S | | | | | | | | | | |
| 2 | 935 | | | | | | | | | | | |
| 3 | 936 | | | | | | | | | | | |
| 4 | 939 | | | | | | | | | | | |
| 5 | 157 | 281 | 285-380 | 050 | 5 | MAX | 37 | 9 | 0 | 31.2 | NORMAL | Wind <u>5 MPH</u> |
| 6 | 158 | 283 | 287-382 | 048 | " | | | | | | " | |
| 7 | 159 | 285 | 289-384 | 046 | " | | | | | | " | |
| 8 | 160 | 287 | 291-386 | 044 | " | | | | | | Vib's. offset left 120' | |
| 9 | 161 | 289 | 293-388 | 042 | " | | | | | | " | " |
| 10 | 162 | 290 | 294-389 | 041 | " | | | | | | " | " |
| 11 | 163 | 292 | 296-391 | 039 | " | | | | | | " | " |
| 12 | 164 | 293 | 297-392 | 038 | " | | | | | | " | " |
| 13 | 165 | 294 | 298-393 | 037 | " | | | | | | " | " |
| 14 | 166 | 295 | 299-394 | 036 | " | | | | | | " | " |
| 15 | 167 | 296 | 300-395 | 035 | " | | | | | | " | " |
| 16 | 168 | 297 | 301-396 | 034 | " | | | | | | " | " |
| 17 | 169 | 298 | 302-397 | 033 | " | | | | | | " | " |
| 18 | 170 | 299 | 303-398 | 032 | " | | | | | | " | " |
| 19 | 171 | 300 | 304-399 | 031 | " | | | | | | " | " |
| 20 | 172 | 301 | 305-400 | 030 | " | | | | | | " | " |
| 21 | 173 | 302 | 306-401 | 029 | " | | | | | | " | " |
| 22 | 174 | 303 | 307-402 | 028 | " | | | | | | " | " |
| 23 | X | 305 | 309-404 | 026 | X | | | | | | } SKIPS GAS PLANT | |
| 24 | X | 307 | 311-408 | 024 | X | | | | | | } | |
| 25 | X | 309 | 313-408 | 022 | X | | | | | | } | |

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|---|---------------------------------------|--|--------------------------------------|--|---------------------------------|
| TOTAL SETUPS | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME | SYSTEM NO. |
| SWEEP FREQUENCY 8-32 x 30 sec | SWEEP PATTERN Wline | SWEEPS PER PATTERN 5 x 16 = 80 | SWEEP PATTERNS PER SETUP 1 | PATCH PATTERN Weighted ARRAY | |
| GEOPHONES PER PATCH 24 | NO. OF RECORDING PATCHES 96 | TYPE VIBRATOR 4-900 | TYPE GEOPHONE EV-22B | FREQUENCY 7.5 ~ | STATION INTERVAL 330' |
| REMARKS 0 — 1320' — 32,670' | | | OBSERVER DAVE MURRAY | PARTY MGR. WALLY PIRIE | |

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

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

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|--------------------------|-----------------------------------|---------------------|--------------------------|-------------------------|
| CLIENT <i>CO-CORP</i> | AREA <i>Wind River up hirt</i> | STATE <i>WYO</i> | COUNTY <i>FREMONT</i> | DATE <i>11-14-77</i> |
| CREW NO. <i>6806</i> | TERRAIN | WEATHER | | 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 | <i>311</i> | <i>315 - 410</i> | <i>020</i> | X | | | | | | <i>} SKIPS GAS PLANT & PIPE LINE</i> |
| 2 | <i>313</i> | <i>317 - 412</i> | <i>018</i> | X | | | | | | |
| 3 | <i>315</i> | <i>319 - 414</i> | <i>016</i> | X | | | | | | |
| <i>4</i> | <i>175</i> | <i>317</i> | <i>321 - 416</i> | <i>014</i> | <i>5 MAX</i> | <i>38</i> | <i>9</i> | <i>0</i> | <i>312</i> | <i>VIBS. OFFSET RIGHT 500'</i> |
| <i>5</i> | <i>176</i> | <i>319</i> | <i>323 - 418</i> | <i>012</i> | <i>"</i> | | | | | <i>" " " 360'</i> |
| <i>6</i> | <i>177</i> | <i>321</i> | <i>325 - 420</i> | <i>010</i> | <i>"</i> | | | | | <i>" " " 230'</i> |
| <i>*7</i> | <i>178</i> | <i>SUM TEST</i> | | | | | | | | <i>SUM TEST 10 SEC</i> |
| <i>8</i> | <i>179</i> | <i>323</i> | <i>327 - 422</i> | <i>008</i> | <i>"</i> | | | | | <i>VIB OFFSET RIGHT 170'</i> |
| <i>9</i> | <i>180</i> | <i>325</i> | <i>329 - 424</i> | <i>006</i> | <i>"</i> | | | | | <i>" " " 90'</i> |
| <i>10</i> | <i>181</i> | <i>326</i> | <i>330 - 425</i> | <i>005</i> | <i>"</i> | | | | | <i>" " " 40'</i> |
| 11 | 327 | 331 - 426 | 004 | X | | | | | | <i>SKIP - PIPE LINE</i> |
| <i>12</i> | <i>182</i> | <i>329</i> | <i>333 - 428</i> | <i>002</i> | <i>5</i> | | | | | <i>NORMAL ON 2nd 1/2</i> |
| <i>13</i> | <i>183</i> | <i>331</i> | <i>335 - 430</i> | <i>000</i> | <i>"</i> | | | | | <i>NORMAL END OF REEL # 34</i> |
| 14 | | | | | | | | | | |
| 15 | | | | | | | | | | |
| 16 | | | | | | | | | | |
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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>DAVE MURRAY</i> | PARTY MGR. <i>WALLY PINIE</i> | | | |

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

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

| | | | | |
|--------------------------|----------------------------------|-------------------------|--------------------------|-------------------------|
| CLIENT CO-CORP | AREA Wind River uplift | STATE Wyo | COUNTY FREMONT | DATE 11-15-77 |
| CREW NO. 6806 | TERRAIN 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 | |
| 900 | Abbeones | | | | | | | | | Recorder set up 377/380 |
| 1 934 | E1-2T | | | | | | | | | |
| 2 935 | | | | | | | | | | |
| 3 936 | DRAIS | | | | | | | | | |
| 4 939 | | | | | | | | | | |
| 5 184 | 333 | 327-432 | 020 | 5 | MAX | 39 | 9 | 0 | 31-2 | Normal Wind 12 MPH |
| 6 185 | 335 | 339-434 | 018 | 11 | | | | | | " |
| 7 186 | 337 | 341-436 | 016 | 11 | | | | | | " |
| 8 187 | 339 | 343-438 | 014 | 11 | | | | | | " |
| 9 188 | 340 | 344-439 | 013 | 11 | | | | | | " |
| 10 | 341 | 345-440 | 012 | X | | | | | | SKIP steep Hill |
| 11 189 | 343 | 347-442 | 010 | 11 | | | | | | Normal |
| 12 190 | 344 | 348-443 | 009 | 11 | | | | | | " |
| 13 | 345 | 349-444 | 008 | X | | | | | | SKIP - Pipeline Wind 12-15 MPH |
| 14 191 | 347 | 351-446 | 006 | 11 | | | | | | Normal |
| 15 192 | 348 | 352-447 | 005 | 11 | | | | | | " |
| 16 | 349 | 353-448 | 004 | X | | | | | | SKIP Pipeline |
| 17 193 | 351 | 355-450 | 002 | 5 | | | | | | Normal |
| 18 | 353 | 357-452 | | X | | | | | | } SKIPS Pipeline & steep Hill |
| 19 | 355 | 359-454 | | X | | | | | | |
| 20 | 356 | 360-455 | 038 | 5 | | | | | | SKIP MOVE Recorder set-up 420/421 |
| 21 194 | 357 | 361-456 | 037 | 11 | | | | | | Normal Wind 18-25 MPH Stand By |
| 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 x 30 sec | | SWEEP PATTERN inline | SWEEPS PER PATTERN 5 x 16 = 80 | SWEEP PATTERNS PER SETUP 1 | PATCH PATTERN Weighted ARRAY |
| GEOPHONES PER PATCH 24 | NO. OF RECORDING PATCHES 96 | TYPE VIBRATOR Y-900 | TYPE GEOPHONE EV-22 B | FREQUENCY 7.5 Hz | STATION INTERVAL 330' |
| REMARKS 0 — 1320' — 32,670' | | | OBSERVER Dave Murray | PARTY MGR. Wally Pirie | |

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

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

| | | | | |
|--------------------------|----------------------------------|-------------------------|--------------------------|-------------------------|
| CLIENT CO-CORP | AREA Wind River uplift | STATE Wyo | COUNTY FREMont | DATE 11-16-77 |
| CREW NO. 6806 | TERRAIN 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 | 195 | 362-457 | 036 | 5 | MAX | 39 | 9 | 0 | 31.2 | Recorder setup ⁴²⁰ / ₄₂₁ VIBS offset Right 320' wind <u>3 MPH</u> |
| 2 | 196 | 363-458 | 035 | " | | | | | | NORMAL End Reel # 39 |
| 3 | 197 | 364-459 | 034 | " | | FILE # 900 ALL cases | | | | " START Reel # 40 |
| 4 | 198 | 365-460 | 033 | " | | | | | | " |
| 5 | 199 | 366-461 | 032 | " | | | | | | " |
| 6 | 200 | 367-462 | 031 | " | | | | | | " |
| 7 | 201 | 368-463 | 030 | " | | | | | | VIBS. offset Right 280' |
| 8 | 202 | 369-464 | 029 | " | | | | | | " " " 100' |
| 9 | 203 | 370-465 | 028 | " | | | | | | NORMAL |
| 10 | 204 | 371-466 | 027 | " | | | | | | VIBS. offset Right 90' |
| 11 | 205 | 372-467 | 026 | " | | | | | | " " " 130' |
| 12 | 206 | 373-468 | 025 | " | | | | | | " " LEFT 110 STACK on 1 1/2 Pipeline |
| 13 | | 375-470 | | | | | | | | SKIP VPS 370 → 386 Steep hill NO ROAD. VIBS. LONG 90 AROUND hill MOVE RECORDER |
| 14 | | 377-472 | | | | | | | | |
| 15 | | 379-474 | | | | | | | | |
| 16 | | 377-476 | | | | | | | | |
| 17 | | 379-478 | | | | | | | | |
| 18 | | 381-480 | | | | | | | | |
| 19 | | 383-482 | | | | | | | | |
| 20 | | 385-484 | | | | | | | | |
| 21 | 207 | 387-486 | 030 | 5 | | 40 | | | | NORMAL Recorder set-up ⁴⁴³ / ₄₄₄ |
| 22 | 208 | 389-488 | 028 | " | | | | | | VIBS offset Right 230' |
| 23 | 209 | 395-490 | 026 | " | | 40 | | | | " " " 120' End of Reel # 40 |
| 24 | 210 | 396-491 | 025 | " | | 41 | | | | " " " 70' START Reel # 41 |
| 25 | 211 | 397-492 | 024 | " | | " | | | | NORMAL |

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|---|---------------------------------------|--|---------------------------------|--|---------------------------------|
| TOTAL SETUPS | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME | SYSTEM NO. |
| SWEEP FREQUENCY 8-32 X 30 sec | | SWEEP PATTERN in line | | SWEEPS PER PATTERN 5 X 16 = 80 | |
| SWEEP PATTERNS PER SETUP 1 | | PATCH PATTERN weighted ARRAY | | | |
| GEOPHONES PER PATCH 24 | NO. OF RECORDING PATCHES 96 | TYPE VIBRATOR Y-900 | TYPE GEOPHONE EV-22 B | FREQUENCY 7.5 Hz | STATION INTERVAL 330' |
| REMARKS 0 — 1,320' — 32,670' | | | OBSERVER DAVE MURRAY | PARTY MGR. Wahby Pirie | |

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

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

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|--------------------------|-----------------------------------|----------------------|--------------------------|-------------------------|
| CLIENT <i>CO-CORP</i> | AREA <i>Wind River upl. ST</i> | STATE <i>WYO.</i> | COUNTY <i>FREMONT</i> | DATE <i>11-16-77</i> |
| CREW NO. <i>6806</i> | TERRAIN | WEATHER | | 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 | 212 | 394 | 398-493 | 023 | 5 | MAX | 41 | 9 | 0 | 31.2 | V.I.B.'S. OFFSET RIGHT 50' Wind 10 MPH |
| 2 | 213 | 395 | 399-494 | 022 | 11 | | | | | | " " " 50' |
| 3 | 214 | 396 | 400-495 | 021 | 11 | | | | | | normal |
| 4 | 215 | 397 | 401-496 | 020 | 11 | | | | | | " |
| 5 | 216 | 398 | 402-497 | 019 | 11 | | | | | | " |
| 6 | 217 | 399 | 403-498 | 018 | 11 | | | | | | " |
| 7 | 218 | 400 | 404-499 | 017 | 11 | | | | | | " |
| 8 | 219 | 401 | 405-500 | 016 | 11 | | | | | | " |
| 9 | | | | | | | | | | | |
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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>DAVE MURRAY</i> | PARTY MGR. <i>WALLY PIRIE</i> | | | |

**OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER**

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

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|--------------------------|----------------------------------|--------------------------|--------------------------|-------------------------|
| CLIENT CO-CORP | AREA Wind River uplift | STATE Wyo | COUNTY FREMONT | DATE 11-17-77 |
| CREW NO. 6806 | TERRAIN FLAT | WEATHER 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 | 220 | 402 | 406-501 | 049 | 5 | MAX | 41 | 9 | 0 | 31.2 | NORMAL |
| 2 | 221 | 403 | 407-502 | 048 | 1. | | | | | | " |
| 3 | 222 | 404 | 408-503 | 047 | 1. | | | | | | " |
| 4 | 223 | 405 | 409-504 | 046 | 1. | | 41 | | | | File 900 All ones |
| 5 | 224 | 406 | 410-505 | 045 | 1. | | 42 | | | | " |
| 6 | 225 | 407 | 411-506 | 044 | 1. | | | | | | " |
| 7 | 226 | 408 | 412-507 | 043 | 1. | | | | | | Vib's. offset Right 60' |
| 8 | 227 | 409 | 413-508 | 042 | 1. | | | | | | NORMAL |
| 9 | 228 | 410 | 414-509 | 041 | 1. | | | | | | " |
| 10 | 229 | 411 | 415-510 | 040 | 1. | | | | | | " |
| 11 | 230 | 412 | 416-511 | 039 | 1. | | | | | | Vib's. offset Left 180' |
| 12 | 231 | 413 | 417-512 | 038 | 1. | | | | | | " " " 120' |
| 13 | | 415 | 419-514 | 036 | | | | | | | } SKIPS PIPE LINE |
| 14 | | 417 | 421-516 | 034 | | | | | | | |
| 15 | | 419 | 423-518 | 032 | | | | | | | |
| 16 | | 421 | 425-520 | 030 | | | | | | | |
| 17 | | 423 | 427-522 | 028 | | | | | | | |
| 18 | | 425 | 429-524 | 026 | | | | | | | |
| 19 | | 427 | 431-526 | 024 | | | | | | | |
| 20 | | 429 | 433-528 | 022 | | | | | | | |
| 21 | | 431 | 435-530 | 020 | | | | | | | |
| 22 | | 433 | 437-532 | 018 | | | | | | | |
| 23 | 232 | 435 | 439-534 | 016 | 5 | | | | | | Vib's offset left 240' 2 1/2" |
| 24 | 233 | 436 | 440-535 | 015 | 1. | | | | | | " " " 250' |
| 25 | 234 | 437 | 441-536 | 014 | | | | | | | SKIP Pipe line |

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|---|---------------------------------------|--|--------------------------------------|--|---------------------------------|
| TOTAL SETUPS | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME | SYSTEM NO. |
| SWEEP FREQUENCY 8-32 x 30 <u>50</u> | SWEEP PATTERN 1 in line | SWEEPS PER PATTERN 5 x 16 = 80 | SWEEP PATTERNS PER SETUP 1 | PATCH PATTERN Weighted ARRAY | |
| GEOPHONES PER PATCH 24 | NO. OF RECORDING PATCHES 96 | TYPE VIBRATOR Y-900 | TYPE GEOPHONE EV-22 B | FREQUENCY 7.5 | STATION INTERVAL 330' |
| REMARKS 0-1320' — 32,670' | | | OBSERVER DAVE MURRAY | PARTY MGR. WALLY PIRIE | |

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

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Petty-Ray Geophysical
Division
Geosource Inc.

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|---------------------------|-----------------------------------|---------------------|--------------------------|-------------------------|
| CLIENT <i>CO-CORP.</i> | AREA <i>Wind River up lift</i> | STATE <i>WYO</i> | COUNTY <i>Fremont</i> | DATE <i>11-19-77</i> |
| CREW NO. <i>6806</i> | TERRAIN | WEATHER | 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 | 439 | 443 - 538 | 012 | 5 | MAX | 42 | 9 | 0 | 31.2 | VIBS. OFFSET Right 100' 2±½ |
| 2 | 441 | 445 - 540 | 010 | " | | | | | | " " " 360' |
| 3 | 443 | 447 - 542 | 008 | " | | | | | | " " " 290' End Reel # 42 |
| 4 | 445 | 449 - 544 | 008 | " | | 43 | | | | " " LEFT 120' START Reel # 43 |
| 5 | 447 | 451 - 546 | 004 | " | | | | | | " " " 70' |
| 6 | 449 | 453 - 548 | 002 | " | | | | | | NORMAL |
| 7 | 451 | 455 - 550 | 000 | " | | | | | | " |
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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>DAVE MURRAY</i> | PARTY MGR. <i>WALLY PIRIE</i> | | LINE DIR. 1 TO 24 | |

OBSERVER'S REPORT
DIGITAL VIBROSEIS RECORDER

P. 20
Petty-Ray Geophysical
Division
Geosource Inc.

| | | | | |
|---------------------------|----------------------------------|-------------------------|--------------------------|-------------------------|
| CLIENT <i>CO-CORP.</i> | AREA <i>Wind River uplift</i> | STATE <i>WYO</i> | COUNTY <i>FREMONT</i> | DATE <i>11-18-77</i> |
| CREW NO. <i>6806</i> | TERRAIN <i>FLAT</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. | F I L T E R | | | REMARKS |
|----------|-------------|-----------------|---------|--------|----------|--------------|-------------|------|------|--|
| | | | | | | | LOCUT | 60 ~ | AMP | |
| 1 | 453 | 457-552 | 33 | 5 | MAX | 43 | 9 | 0 | 31.2 | Recorder set up $\frac{512}{513}$ NORMAL <i>Wind 3 MPH</i> |
| 2 | 455 | 459-554 | 31 | " | | | | | | " |
| 3 | 457 | 461-556 | 29 | " | | | | | | " |
| 4 | 459 | 463-558 | 27 | " | | | | | | " |
| 5 | 461 | 465-560 | 25 | " | | | | | | " |
| 6 | 463 | 467-562 | 23 | " | | | | | | " |
| 7 | 465 | 469-564 | 21 | " | | | | | | VIB'S offset Right 230' |
| 8 | 467 | 471-566 | 19 | " | | | | | | " " " 220' End Reel # 43 |
| 9 | 469 | 473-568 | 17 | " | | 44 | | | | " " " 150' START Reel # 44 |
| 10 | 471 | 475-570 | 15 | " | | | | | | " " " 90' |
| 11 | 473 | 477-572 | 13 | " | | | | | | NORMAL |
| 12 | 475 | 479-573 | 11 | " | | | | | | " |
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| TOTAL SETUPS | TOTAL SWEEPS | TOTAL COVERAGE | TOTAL FIELD TIME | DRIVING TIME | SYSTEM NO. |
| SWEEP FREQUENCY <i>8-32 X 30 sec</i> | SWEEP PATTERN <i>In line</i> | SWEEPS PER PATTERN <i>5 X 16 = 80</i> | SWEEP PATTERNS PER SETUP <i>1</i> | PATCH PATTERN <i>Weighted ARRAY</i> | |
| GEOPHONES PER PATCH <i>24</i> | NO. OF RECORDING PATCHES <i>96</i> | TYPE VIBRATOR <i>4-900</i> | TYPE GEOPHONE <i>EV-22 B</i> | FREQUENCY <i>7.5 ~</i> | STATION INTERVAL <i>330'</i> |
| REMARKS | OBSERVER <i>DAVE MURRAY</i> | PARTY MGR. <i>Wally Pina</i> | | LINE DIR. <i>1 TO 24</i> | |