



# LAND SEISMIC RECORDING LOG

|                             |   |  |  |   |  |  |  |                       |                       |
|-----------------------------|---|--|--|---|--|--|--|-----------------------|-----------------------|
|                             | CLIENT: <u>Husky</u>  | PROSPECT: <u>NPR-4 UMIAT</u>   | AREA: <u>N. Slope Ark</u>  | LINE NO: <u>04</u>  |  |  |  |                       |                       |
|                             | PARTY NO: <u>1173</u>   | INST. ENG: <u>CC BEATSCHE</u>  | <u>TRAC HRS 14.5</u>   | DATE: <u>MO. 2 DAY 5 YR 78</u>  |  |  |  |                       |                       |
| INSTRUMENT<br>(9-TRACK)     | <input type="checkbox"/> 1 SYSTEM<br><input type="checkbox"/> 2 SYSTEMS   | <input type="checkbox"/> 1-24 & 25-48<br><input type="checkbox"/> 1-48 & 49-96   | TYPE: <input type="checkbox"/> DFS III<br><input type="checkbox"/> DFS IV<br><input type="checkbox"/> OTHER  | <input type="checkbox"/> F TRACK<br><input type="checkbox"/> 21 TRACK                 | FORMAT: <input type="checkbox"/> GAPPED<br><input type="checkbox"/> UNGAPPED | PACKING DENSITY: (10) <input type="checkbox"/> 356 BPI<br>(11) <input type="checkbox"/> 800 BPI<br>(12) <input type="checkbox"/> 712 BPI<br>(13) <input type="checkbox"/> 1600 BPI |  |                       |                       |
|                             | NO. BYTES IN HEADER REC:  | NO. BYTES IN RECORD ID:  | NO. BYTES PER SCAN:  | RECORD NUMBERS:   | <input type="checkbox"/> DEC. <input type="checkbox"/> OCT.                  | GAIN CONSTANT: _____ db  | INPUT IMPEDANCE: _____ ohms  |                       |                       |
| CONFIGURATION<br>(MAG TAPE) | FIELD TRACE NOS.: _____   |  |  | AUXILIARY DATA: (1) _____ (2) _____ (3) _____ (4) _____ (5) _____ (6) _____ (7) _____ |  |  |  |                       |                       |
| PARAMETER                   | RECORD LENGTH: _____ sec.   | SAMPLE RATE: <input type="checkbox"/> 1 ms. <input type="checkbox"/> 4 ms.<br><input type="checkbox"/> 2 ms. _____ ms. | GAIN MODE: <input type="checkbox"/> INITIAL<br><input type="checkbox"/> IFP <input type="checkbox"/> MANUAL<br><input type="checkbox"/> FINAL <input type="checkbox"/> OPERATE | FILTERS: _____  | LO CUT HZ SLOPE: _____   | H1 CUT HZ SLOPE: _____   | NOTCH FILTER: <input type="checkbox"/> IN<br><input type="checkbox"/> OUT                                |                       |                       |
| DISPLAY                     | MODE: <input type="checkbox"/> AGC <input type="checkbox"/> FLOAT <input type="checkbox"/> AMPLIFIER<br><input type="checkbox"/> DEFOAT <input type="checkbox"/> DIRECT | INITIAL GAIN: _____ db   | TRIP SENS: _____ db  | POLARITY CONVENTION: _____  | PRESSURE INCREASE ON GEOPHONE: _____   | <input type="checkbox"/> NEGATIVE<br><input type="checkbox"/> POSITIVE   | NUMBERS ON MAG. TAPE <input type="checkbox"/> DOWNBREAK<br><input type="checkbox"/> UPBREAK } ON DISPLAY |                       |                       |
| CFS I                       | TYPE STACK: _____   | GATE LENGTH: _____   | RECORD REJECTION: _____  | NOISE REDUCTION: _____  | NOISE THRESHOLD: _____   | CORR. SCALING: _____   | R.C.U. NORM / ALT SW.  |                       |                       |
| SOURCE                      | TYPE: <input type="checkbox"/> DYNAMITE<br><input type="checkbox"/> VIBROSEIS<br><input type="checkbox"/> OTHER   | PATTERN: _____   | NO. OF POSITIONS: _____  | INLINE SPACING: _____   | LATERAL SPACING: _____   | STAGGER: _____   | LENGTH: _____  | WIDTH: _____          | LATERAL OFFSET: _____ |
| RECEIVER                    | TYPE: _____   | PATTERN: _____   | NO. OF ELEMENTS: _____   | INCLINE SPACING: _____  | STAGGER: _____   | LENGTH: _____  | WIDTH: _____   | LATERAL OFFSET: _____ |                       |
| SPREAD                      | NO. OF GROUPS: _____  | GROUP INTERVAL: _____  | SHOTPOINT INTERVAL: _____  | FOLD: _____   | OFFSET GROUP: _____  | LEADING GROUP: _____   | DIRECTION OF PROGRESSION: <u>N</u>   |                       |                       |

DIAGRAMS/MISC. INFORMATION: TR#1 - SP175    SP178    SP181    SP184    SP187    SP190    SP193    SP196    TR#2    TR#3 - TR#96



Waiting on Drills Most of the Day, Complete Layout on U4, Begin Prod. with 96 TRS - 12 TRS Tail.

| SHOTPOINT | TR. _____ to _____ |      | TR. _____ to _____ |      | SHOT |       |      | SPREAD |      | REMARKS: | CORR. STACK |       |             |     |    |         |
|-----------|--------------------|------|--------------------|------|------|-------|------|--------|------|----------|-------------|-------|-------------|-----|----|---------|
|           | REEL NO.           | REC. | REEL NO.           | REC. | SIZE | DEPTH | NO.  | OFFSET | DIR. |          | CDP SWITCH  | *1    | LINE GROUPS | #96 | SP | TR 1-48 |
| 1196      | 75114514           | 113  |                    |      | 110  | 105   |      |        |      | 49       | 175-1       | T3    | 181         |     |    |         |
| 1195      |                    | 114  |                    |      | 110  | 105   |      |        |      | 49       | 175-1       | T3    |             |     |    |         |
| 1194      |                    | 115  |                    |      | 110  | 105   |      |        |      | 49       | 175-1       | T3    |             |     |    |         |
| 1193      |                    | 116  |                    |      | 110  | 105   | 1610 | N      |      | 49       | 175-1       | T3    |             |     |    |         |
| 1192      |                    | 118  |                    |      | 110  | 105   |      |        |      | 49       | 175-1       | T3    |             |     |    |         |
| 1191      |                    | 119  |                    |      | 110  | 105   |      |        |      | 49       | 175-1       | T3    |             |     |    |         |
| 1190      |                    | 120  |                    |      | 110  | 105   |      |        |      | 49       | 175-1       | T3    |             |     |    |         |
| 1189      |                    | 121  |                    |      | 110  | 105   |      |        |      | 49       | 175-1       | T3    |             |     |    |         |
| 1188      |                    | 122  |                    |      | 110  | 105   |      |        |      | 49       | 175-1       | T3    |             |     |    |         |
| 1187      |                    | 123  |                    |      | 110  | 105   |      |        |      | 49       | 175-1       | T3    |             |     |    |         |
| 1186      |                    | 124  |                    |      | 110  | 105   |      |        |      | 45       | 174-1       | T2    |             |     |    |         |
| 1185      |                    | 125  |                    |      | 110  | 105   |      |        |      | 41       | 173-1       | T1    |             |     |    |         |
| 1184      |                    | 126  |                    |      | 110  | 105   |      |        |      | 37       | 172-1       | 195-4 |             |     |    |         |
| 1183      |                    | 127  |                    |      | 110  | 105   | 1805 |        |      | 33       | 171-1       | 194-4 |             |     |    |         |
| 1182      |                    | 128  |                    |      | 110  | 105   |      |        |      | 29       | 170-1       | 193-4 |             |     |    |         |
| 1181      |                    | 129  |                    |      | 110  | 105   |      |        |      | 25       | 169-1       | 192-4 |             |     |    |         |
| 1180      |                    | 130  |                    |      | 110  | 105   |      |        |      | 21       | 168-1       | 191-4 |             |     |    |         |
| 1179      |                    | 131  |                    |      | 110  | 105   |      |        |      | 17       | 167-1       | 190-4 |             |     |    |         |
| 1178      |                    | 132  |                    |      | 110  | 105   |      |        |      | 13       | 166-1       | 189-4 |             |     |    |         |
| 1177      |                    | 133  |                    |      | 110  | 105   |      |        |      | 9        | 165-1       | 188-4 |             |     |    |         |
| 1176      |                    | 134  |                    |      | 110  | 105   | 21   |        |      | 5        | 164-1       | 189-4 |             |     |    |         |

CAUGHT DRILLS, 3 DRILLS, 3 DAYS, 30 HOLES -



# LAND SEISMIC RECORDING LOG

|   |   |  |  |   |   |  |  |   |                 |
|---|---|--|--|---|---|--|--|---|-----------------|
|  | CLIENT: <u>Husky</u>  | PROSPECT: <u>NPR-4 UNIT</u>  | AREA: <u>NORTH SLOPE ALASKA</u>  | LINE NO: <u>09</u>  |  |  |  |   |                 |
| PARTY NO: <u>1173</u>   |   | INST. ENG: <u>R. BEITSCHE</u>  |  | DATE: <u>MO 2 DAY 7 YE 28</u>   |   |  |  |   |                 |
| INSTRUMENT<br>(9-TRACK)   | <input type="checkbox"/> 1 SYSTEM<br><input type="checkbox"/> 2 SYSTEMS   | <input type="checkbox"/> 1-24 & 25-48<br><input type="checkbox"/> 1-48 & 49-96   | <input type="checkbox"/> ODDS & EVENS  | TYPE: <input type="checkbox"/> DFS III<br><input type="checkbox"/> DFS IV<br><input type="checkbox"/> OTHER | <input type="checkbox"/> 9 TRACK<br><input type="checkbox"/> 21 TRACK               | FORMAT: <input type="checkbox"/> GAPPED<br><input type="checkbox"/> UNGAPPED | PACKING DENSITY: (LO) <input type="checkbox"/> 356 BPI<br>(HI) <input type="checkbox"/> 712 BPI<br><input type="checkbox"/> 800 BPI<br><input type="checkbox"/> 1600 BPI |   |                 |
|   | NO. BYTES IN HEADER REC:  | NO. BYTES IN RECORD ID:  | NO. BYTES PER SCAN:  | RECORD NUMBERS:   | <input type="checkbox"/> DEC. <input type="checkbox"/> OCT.                         | GAIN CONSTANT: _____ db  | INPUT IMPEDANCE: _____ ohm   |   |                 |
| CONFIGURATION<br>(MAG TAPE)   | FIELD TRACE NOS.:   |  |  | AUXILIARY DATA:   |   |  | (1) (2) (3) (4) (5) (6) (7)  |   |                 |
|   | DATA CHANNEL NOS.:  |  |  | AUXILIARY CHANNEL NOS.:   |   |  |  |   |                 |
| PARAMETER   | RECORD LENGTH: _____ sec.   | SAMPLE RATE: <input type="checkbox"/> 1 ms. <input type="checkbox"/> 4 ms.<br><input type="checkbox"/> 2 ms. _____ ms. | GAIN MODE: <input type="checkbox"/> INITIAL<br><input type="checkbox"/> IFP <input type="checkbox"/> MANUAL<br><input type="checkbox"/> FINAL <input type="checkbox"/> OPERATE | FILTERS: _____  | LO CUT HZ SLOPE _____   | FREQ. _____  | HI CUT HZ SLOPE _____  | NOTCH FILTER: <input type="checkbox"/> IN<br><input type="checkbox"/> OUT |                 |
| DISPLAY   | MODE: <input type="checkbox"/> AGC <input type="checkbox"/> FLOAT<br><input type="checkbox"/> DEFLOAT <input type="checkbox"/> AMPLIFIER<br><input type="checkbox"/> DIRECT | INITIAL GAIN: _____ db   | TRIP SENS: _____ db  | POLARITY CONVENTION: <input type="checkbox"/> NEGATIVE<br><input type="checkbox"/> POSITIVE                 | PRESSURE INCREASE ON GEOPHONE: _____  | NUMBERS ON ON MAG. TAPE  | <input type="checkbox"/> DOWNBREAK<br><input type="checkbox"/> UPBREAK   | ON DISPLAY  |                 |
| CFS I   | TYPE STACK:   | GATE LENGTH:   | RECORD REJECTION:  | NOISE REDUCTION:  | NOISE THRESHOLD:  | CORR. SCALING:   | R.C.U. NORM / ALT SW.  |   |                 |
| SOURCE  | TYPE: <input type="checkbox"/> DYNAMITE<br><input type="checkbox"/> VIBROSEIS<br><input type="checkbox"/> OTHER   | PATTERN:   | NO. OF POSITIONS:  | INLINE SPACING:   | LATERAL SPACING:  | STAGGER:   | LENGTH:  | WIDTH:  | LATERAL OFFSET: |
|   | CHG/ MOLE:  | HOLE DEPTH:  | SWEEP POSITION:  | SWEEP START:  | SWEEP END:  | SWEEP LENGTH:  | SWEEP TAPER:   | PHASE COMP:   |                 |
| RECEIVER  | TYPE:   | PATTERN:   | NO. OF ELEMENTS:   | INCLINE SPACING:  | LATERAL SPACING:  |  | LATERAL OFFSET:  |   |                 |
|   | CONNECTION:   | RESISTANCE:  | STAGGER:   | LENGTH:   | WIDTH:  | LATERAL OFFSET:  |  |   |                 |
| SPREAD  | NO. OF GROUPS:  | GROUP INTERVAL:  | SHOTPOINT INTERVAL:  | FOLD:   | DIRECTION OF PROGRESSION:   |  |  |   |                 |
|   | OFFSET GROUP 1:   | OFFSET GROUP _____:  | OFFSET GROUP _____:  | OFFSET GROUP 48/96:   | LEADING GROUP:  |  |  |   |                 |

DIAGRAMS/MISC. INFORMATION:

Waiting on Drills Couple hrs in Morning

| SHOTPOINT | TR. _____ TO _____ |      | TR. _____ TO _____ |      | SHOT |       |     |        | SPREAD |            |       |             | REMARKS: | CORR. STACK     |                 |         |
|-----------|--------------------|------|--------------------|------|------|-------|-----|--------|--------|------------|-------|-------------|----------|-----------------|-----------------|---------|
|           | REEL NO.           | REC. | REEL NO.           | REC. | SIZE | DEPTH | NO. | OFFSET | DIR.   | CDP SWITCH | #     | LINE GROUPS |          | R <sub>2L</sub> | R <sub>2R</sub> | TR 1-48 |
| 11725     | 3511454            | 136  | 1000               | 1    | 110  | 105   |     |        |        | 44         | 163-1 | 186-4       | 129      |                 |                 |         |
| 1174      |                    | 136  |                    |      | 110  | 105   |     |        |        | 45         | 162-1 | 185-4       |          |                 |                 |         |
| 1173      |                    | 137  |                    |      | 110  | 105   |     |        |        | 41         | 161-1 | 184-4       |          |                 |                 |         |
| 1172      |                    | 138  |                    |      | 110  | 105   |     |        |        | 37         | 160-1 | 183-4       |          |                 |                 |         |
| 1171      |                    | 139  |                    |      | 110  | 105   |     |        |        | 33         | 159-1 | 182-4       |          |                 |                 |         |
| 1170      |                    | 140  |                    |      | 110  | 105   |     |        |        | 29         | 158-1 | 181-4       |          |                 |                 |         |
| 1169      |                    | 141  |                    |      | 110  | 105   |     |        |        | 25         | 157-1 | 180-4       |          |                 |                 |         |
| 1168      |                    | 142  |                    |      | 110  | 105   |     |        |        | 21         | 156-1 | 179-4       |          |                 |                 |         |
| 1167      |                    | 143  |                    |      | 110  | 105   |     |        |        | 17         | 155-1 | 178-4       |          |                 |                 |         |
| 1166      |                    | 144  |                    |      | 110  | 105   |     |        |        | 13         | 154-1 | 177-4       |          |                 |                 |         |
| 1165      |                    | 145  |                    |      | 110  | 105   |     |        |        | 9          | 153-1 | 176-4       |          |                 |                 |         |
| 1164      |                    | 146  |                    |      | 110  | 105   |     |        |        | 5          | 152-1 | 175-4       |          |                 |                 |         |
| 1163      |                    | 147  |                    |      | 110  | 105   |     |        |        | 1          | 151-1 | 174-4       |          |                 |                 |         |
| 1162      |                    | 148  |                    |      | 110  | 105   |     |        |        | 45         | 150-1 | 173-4       | 157      |                 |                 |         |
| 1161      |                    | 149  |                    |      | 110  | 105   |     |        |        | 41         | 149-1 | 172-4       |          |                 |                 |         |
| 1160      |                    | 150  |                    |      | 110  | 105   |     |        |        | 37         | 148-1 | 171-4       |          |                 |                 |         |
| 1159      |                    | 151  |                    |      | 110  | 105   |     |        |        | 33         | 147-1 | 170-4       |          |                 |                 |         |
| 1158      |                    | 152  |                    |      | 110  | 105   |     |        |        | 29         | 146-1 | 169-4       |          |                 |                 |         |
| 1157      |                    |      |                    |      |      |       |     |        |        |            |       |             |          |                 |                 |         |
| 1156      |                    |      |                    |      |      |       |     |        |        |            |       |             |          |                 |                 |         |

# LAND SEISMIC RECORDING LOG

|                             |   |  |   |   |   |  |   |   |                       |
|-----------------------------|---|--|---|---|---|--|---|---|-----------------------|
|                             | CLIENT: <u>Hess</u>   | PROSPECT: <u>NPR-4 UNIT</u>  | AREA: <u>Supp. 1A</u>   | LINE NO: <u>114</u>   |   |  |   |   |                       |
|                             | PARTY NO: <u>1173</u>   | INST. ENG: <u>C. Bannoch</u>   | REC HRS: <u>14.5</u>  | DATE: <u>MO 2 DAY 7 YR 78</u>   |   |  |   |   |                       |
| INSTRUMENT<br>(9-TRACK)     | <input type="checkbox"/> 1 SYSTEM<br><input type="checkbox"/> 2 SYSTEMS   | <input type="checkbox"/> 1-24 & 25-48<br><input type="checkbox"/> 1-48 & 49-96   | ODDS<br>EVENTS  | TYPE: <input type="checkbox"/> DFS III<br><input type="checkbox"/> DFS II<br><input type="checkbox"/> OTHER | <input type="checkbox"/> 9 TRACK<br><input type="checkbox"/> 21 TRACK | FORMAT: <input type="checkbox"/> GAPPED<br><input type="checkbox"/> UNGAPPED | PACKING DENSITY: (10) <input type="checkbox"/> 356 BPI<br>(11) <input type="checkbox"/> 712 BPI<br>(12) <input type="checkbox"/> 1600 BPI |   |                       |
|                             | NO. BYTES IN HEADER REC: _____  | NO. BYTES IN RECORD ID: _____  | NO. BYTES PER SCAN: _____   | RECORD NUMBERS: _____   | <input type="checkbox"/> DEC. <input type="checkbox"/> OCT.           | GAIN CONSTANT: _____ db  | INPUT IMPEDANCE: _____ ohm  |   |                       |
| CONFIGURATION<br>(MAG TAPE) | FIELD TRACE NOS.: _____   |  |   | AUXILIARY DATA: _____   |   |  | (1) _____ (2) _____ (3) _____ (4) _____ (5) _____ (6) _____ (7) _____   |   |                       |
|                             | DATA CHANNEL NOS.: _____ (ON MAG TAPE)  |  |   | AUXILIARY CHANNEL NOS.: _____   |   |  |   |   |                       |
| PARAMETER                   | RECORD LENGTH: _____ sec.   | SAMPLE RATE: <input type="checkbox"/> 1 ms. <input type="checkbox"/> 4 ms.<br><input type="checkbox"/> 2 ms. _____ ms. | GAIN MODE: <input type="checkbox"/> INITIAL<br><input type="checkbox"/> IFP | <input type="checkbox"/> MANUAL<br><input type="checkbox"/> OPERATE   | FILTERS: _____  | LO CUT HZ SLOPE: _____   | HI CUT HZ SLOPE: _____  | NOTCH FILTER: <input type="checkbox"/> IN<br><input type="checkbox"/> OUT           |                       |
| DISPLAY                     | MODE: <input type="checkbox"/> AGC <input type="checkbox"/> FLOAT <input type="checkbox"/> AMPLIFIER<br><input type="checkbox"/> OTHER <input type="checkbox"/> DEFLOAT <input type="checkbox"/> DIRECT | INITIAL GAIN: _____ db   | TRIP SENS: _____ db   | POLARITY CONVENTION: _____  | PRESSURE INCREASE ON GEOPHONE: _____                                  | <input type="checkbox"/> NEGATIVE<br><input type="checkbox"/> POSITIVE       | NUMBERS ON ON MAG. TAPE   | <input type="checkbox"/> DOWNBREAK<br><input type="checkbox"/> UPBREAK } ON DISPLAY |                       |
| CFS I                       | TYPE STACK: _____   | GATE LENGTH: _____   | RECORD REJECTION: _____   | NOISE REDUCTION: _____  | NOISE THRESHOLD: _____  | CORR. SCALING: _____   | R.C.U. NORM / ALT SW.   |   |                       |
| SOURCE                      | TYPE: <input type="checkbox"/> DYNAMITE<br><input type="checkbox"/> VIBROSEIS<br><input type="checkbox"/> OTHER   | PATTERN: _____   | NO. OF POSITIONS: _____   | INLINE SPACING: _____   | LATERAL SPACING: _____  | STAGGER: _____   | LENGTH: _____   | WIDTH: _____  | LATERAL OFFSET: _____ |
|                             | CHG/ HOLE: _____  | HOLE DEPTH: _____  | SWEEP POSITION: _____   | SWEEP START: _____  | SWEEP END: _____  | SWEEP LENGTH: _____  | SWEEP TAPER: _____  | PHASE COMP: _____   |                       |
| RECEIVER                    | TYPE: _____   | PATTERN: _____   | NO. OF ELEMENTS: _____  | INCLINE SPACING: _____  | LATERAL SPACING: _____  | STAGGER: _____   | LENGTH: _____   | WIDTH: _____  | LATERAL OFFSET: _____ |
|                             | CONNECTION: _____   | RESISTANCE: _____ ohms   | STAGGER: _____  | LENGTH: _____   | WIDTH: _____  | LATERAL OFFSET: _____  |   |   |                       |
| SPREAD                      | NO. OF GROUPS: _____  | GROUP INTERVAL: _____  | SHOTPOINT INTERVAL: _____   | FOLD: _____   | DIRECTION OF PROGRESSION: _____                                       |  |   |   |                       |
|                             | OFFSET GROUP 1: _____   | OFFSET GROUP _____   | OFFSET GROUP _____  | OFFSET GROUP 48/96: _____   | LEADING GROUP: _____  |  |   |   |                       |

DIAGRAMS/MISC. INFORMATION:

| SHOTPOINT | TR. _____ to _____ |      | TR. _____ to _____ |      | SHOT |       |     |        | SPREAD |            |       | REMARKS: | CORR. STACK |  |         |          |
|-----------|--------------------|------|--------------------|------|------|-------|-----|--------|--------|------------|-------|----------|-------------|--|---------|----------|
|           | REEL NO.           | REC. | REEL NO.           | REC. | SIZE | DEPTH | NO. | OFFSET | DIR.   | CDP SWITCH | #1    |          | LINE GROUPS | #2   | TR 1-24 | TR 25-48 |
| 11517     | 715114515          | 1514 | SIMWANG            | TRAP | 110  | 105   |     |        |        | 25         | 145-1 | 168-4    | 157         |  |         |          |
| 11518     |                    | 1515 |                    |      | 110  | 105   |     |        |        | 21         | 144-1 | 167-4    |             |  |         |          |
| 11515     |                    | 1516 |                    |      | 110  | 105   |     |        |        | 19         | 143-1 | 166-4    |             |  |         |          |
| 11514     |                    | 1517 |                    |      | 110  | 105   |     |        |        | 13         | 142-1 | 165-4    |             |  |         |          |
| 11513     |                    | 1518 |                    |      | 110  | 105   |     |        |        | 9          | 141-1 | 164-4    |             |  |         |          |
| 11512     |                    | 1519 |                    |      | 110  | 105   |     | 160N   |        | 5          | 140-1 | 163-4    |             | SHOT WENT OFF - LAST TURN N/R ON SHOOTER, STOPPED THIS H/W |         |          |
| 11511     |                    | 160  |                    |      | 110  | 105   |     |        |        | 49         | 139-1 | 162-4    | 145         |  |         |          |
| 11510     |                    | 161  |                    |      | 110  | 105   |     |        |        | 45         | 138-1 | 161-4    |             |  |         |          |
| 11499     |                    | 162  |                    |      | 110  | 105   |     |        |        | 41         | 137-1 | 160-4    |             |  |         |          |
| 11498     |                    | 163  |                    |      | 110  | 105   |     |        |        | 37         | 136-1 | 159-4    |             |  |         |          |
| 11497     |                    | 164  |                    |      | 110  | 105   |     |        |        | 33         | 135-1 | 158-4    |             |  |         |          |
| 11496     |                    | 165  |                    |      | 110  | 105   |     |        |        | 29         | 134-1 | 157-4    |             |  |         |          |
| 11495     |                    | 166  |                    |      | 110  | 105   |     |        |        | 25         | 133-1 | 156-4    |             |  |         |          |
| 11494     |                    | 167  |                    |      | 110  | 105   |     |        |        | 21         | 132-1 | 155-4    |             |  |         |          |
| 11493     |                    | 168  |                    |      | 110  | 105   |     |        |        | 17         | 131-1 | 154-4    |             |  |         |          |
| 11492     |                    | 169  |                    |      | 110  | 105   |     |        |        | 13         | 130-1 | 153-4    |             |  |         |          |
| 11491     |                    | 170  |                    |      | 110  | 105   |     |        |        | 9          | 129-1 | 152-4    |             |  |         |          |
| 11490     |                    | 171  |                    |      | 110  | 105   |     |        |        | 5          | 128-1 | 151-4    |             |  |         |          |

# LAND SEISMIC RECORDING LOG

|                          |  |  |   |   |   |  |  |  |   |   |                            |  |
|--------------------------|--|--|---|---|---|--|--|--|---|---|----------------------------|--|
|                          | CLIENT: <i>Musky</i>   | PROSPECT: <i>Apr-4 UNIT</i>  | AREA: <i>N. Slope Alaska</i>  | LINE NO: <i>04</i>  |   |  |  |  |   |   |                            |  |
|                          | PARTY NO: <i>173</i>   | INST. ENG: <i>Z. Beniscit</i>  | <i>Rec Hrs 13.5</i>   | <i>DRU - 2.5</i>  |   | DATE: <i>MO 2 DAY 8 YR 98</i>  |  |  |   |   |                            |  |
| INSTRUMENT<br>(9-TRACK)  | <input type="checkbox"/> 1 SYSTEM<br><input type="checkbox"/> 2 SYSTEMS  | <input type="checkbox"/> 1-24 & 25-48<br><input type="checkbox"/> 1-48 & 49-96   | ODDS<br>EVENTS  | TYPE: <input type="checkbox"/> DFS III<br><input type="checkbox"/> DFS IV<br><input type="checkbox"/> OTHER | <input type="checkbox"/> 9 TRACK<br><input type="checkbox"/> 21 TRACK | FORMAT: _____<br>SEG _____   | <input type="checkbox"/> GAPPED<br><input type="checkbox"/> UNGAPPED | PACKING DENSITY: (L) <input type="checkbox"/> 356 BPI<br>(H) <input type="checkbox"/> 712 BPI<br><input type="checkbox"/> 900 BPI<br><input type="checkbox"/> 1600 BPI | RECORD NUMBERS: <input type="checkbox"/> DEC. <input type="checkbox"/> OCT. | GAIN CONSTANT: _____ db   | INPUT IMPEDANCE: _____ ohm |  |
|                          | NO. BYTES IN HEADER REC: _____   | NO. BYTES IN RECORD ID: _____  | NO. BYTES PER SCAN: _____   | AUXILIARY DATA: _____   |   | AUXILIARY CHANNEL NOS: _____   |  | GAIN CONSTANT: (1) _____ (2) _____ (3) _____ (4) _____ (5) _____ (6) _____ (7) _____   |   |   |                            |  |
| CONFIGURATION (MAG TAPE) | FIELD TRACE NOS.: _____  |  |   | DATA CHANNEL NOS.: _____ (ON MAG TAPE)  |   |  |  |  |   |   |                            |  |
| PARAMETER                | RECORD LENGTH: _____ sec.  | SAMPLE RATE: <input type="checkbox"/> 1 ms. <input type="checkbox"/> 4 ms.<br><input type="checkbox"/> 2 ms. _____ ms. | GAIN MODE: <input type="checkbox"/> INITIAL<br><input type="checkbox"/> IFF | <input type="checkbox"/> MANUAL<br><input type="checkbox"/> OPERATE   | FILTERS: _____  | LO CUT<br>HZ SLOPE _____   | FREQ. _____  | HI CUT<br>HZ SLOPE _____   | FREQ. _____   | NOTCH FILTER: <input type="checkbox"/> IN<br><input type="checkbox"/> OUT |                            |  |
| DISPLAY                  | MODE: <input type="checkbox"/> AGC <input type="checkbox"/> FLOAT <input type="checkbox"/> AMPLIFIER<br><input type="checkbox"/> DEFLOAT <input type="checkbox"/> DIRECT | INITIAL GAIN: _____ db   | TRIP SENS: _____ db   | POLARITY CONVENTION: _____  | PRESSURE INCREASE ON GEOPHONE: _____                                  | <input type="checkbox"/> NEGATIVE<br><input type="checkbox"/> POSITIVE | NUMBERS ON ON MAG TAPE   | <input type="checkbox"/> DOWNBREAK<br><input type="checkbox"/> UPBREAK   | ON DISPLAY  |   |                            |  |
| CFS I                    | TYPE STACK: _____  | GATE LENGTH: _____   | RECORD REJECTION: _____   | NOISE REDUCTION: _____  | NOISE THRESHOLD: _____  | CORR. SCALING: _____   | R.C.U. NORM/ALT SW.  |  |   |   |                            |  |
| SOURCE                   | TYPE: <input type="checkbox"/> DYNAMITE<br><input type="checkbox"/> VIBROSEIS<br><input type="checkbox"/> OTHER  | PATTERN: _____   | NO. OF POSITIONS: _____   | INLINE SPACING: _____   | LATERAL SPACING: _____  | STAGGER: _____   | LENGTH: _____  | WIDTH: _____   | LATERAL OFFSET: _____   |   |                            |  |
| RECEIVER                 | CONNECTION: _____  | PATTERN: _____   | RESISTANCE: _____ ohms  | STAGGER: _____  | LENGTH: _____   | WIDTH: _____   | LATERAL OFFSET: _____  |  |   |   |                            |  |
| SPREAD                   | NO. OF GROUPS: _____   | GROUP INTERVAL: _____  | SHOTPOINT INTERVAL: _____   | FOLD: _____   | DIRECTION OF PROGRESSION: _____                                       |  |  |  |   |   |                            |  |
|                          | OFFSET GROUP 1: _____  | OFFSET GROUP _____   | OFFSET GROUP _____  | OFFSET GROUP 48/96: _____   | LEADING GROUP: _____  |  |  |  |   |   |                            |  |



DIAGRAMS/MISC. INFORMATION:

Waiting on Drills most of the day

| SHOTPOINT | TR. _____ to _____ |      | TR. _____ to _____ |      | SHOT |       |     |        | SPREAD |            |       |             | REMARKS | CORR. STACK |    |         |
|-----------|--------------------|------|--------------------|------|------|-------|-----|--------|--------|------------|-------|-------------|---------|-------------|----|---------|
|           | REEL NO.           | REC. | REEL NO.           | REC. | SIZE | DEPTH | NO. | OFFSET | DIR.   | CDP SWITCH | #1    | LINE GROUPS |         | 496         | 50 | TR 1-48 |
| 11319     | 7511               | 1719 |                    |      | 110  | 1105  |     |        |        | 49         | 127-1 | 130-4       |         |             |    |         |
| 11318     |                    | 180  |                    |      | 110  | 1105  |     |        |        | 45         | 126-1 | 149-4       |         |             |    |         |
| 11317     |                    | 181  |                    |      | 110  | 1105  |     |        |        | 41         | 125-1 | 148-4       |         |             |    |         |
| 11316     |                    | 182  |                    |      | 110  | 1105  |     |        |        | 37         | 124-1 | 147-4       |         |             |    |         |
| 11315     |                    | 183  |                    |      | 110  | 1105  |     |        |        | 33         | 123-1 | 146-4       |         |             |    |         |
| 11314     |                    | 184  |                    |      | 110  | 1105  |     |        |        | 29         | 122-1 | 145-4       |         |             |    |         |
| 11313     |                    | 185  |                    |      | 110  | 1105  |     |        |        | 25         | 121-1 | 144-4       |         |             |    |         |
| 11312     |                    | 186  |                    |      | 110  | 1105  |     |        |        | 21         | 120-1 | 143-4       |         |             |    |         |
| 11311     |                    | 187  |                    |      | 110  | 1105  |     |        |        | 17         | 119-1 | 142-4       |         |             |    |         |
| 11310     |                    | 188  |                    |      | 110  | 1105  |     |        |        | 13         | 118-1 | 141-4       |         |             |    |         |
| 11299     |                    | 189  |                    |      | 110  | 1105  |     |        |        | 09         | 117-1 | 140-4       |         |             |    |         |
| 11218     |                    | 190  |                    |      | 110  | 1105  |     |        |        | 5          | 116-1 | 139-4       |         |             |    |         |
| 11217     |                    | 191  |                    |      | 110  | 1105  |     |        |        | 49         | 115-1 | 138-4       | 121     |             |    |         |
| 11216     |                    | 192  |                    |      | 110  | 1105  |     |        |        | 45         | 114-1 | 137-4       |         |             |    |         |
| 11215     |                    | 193  |                    |      | 110  | 1105  |     |        |        | 41         | 113-1 | 136-4       |         |             |    |         |
| 11214     |                    | 194  |                    |      | 110  | 1105  |     |        |        | 37         | 112-1 | 135-4       |         |             |    |         |
| 11213     |                    | 195  |                    |      | 110  | 1105  |     |        |        | 33         | 111-1 | 134-4       |         |             |    |         |
| 11212     |                    | 196  |                    |      | 110  | 1105  |     |        |        | 29         | 110-1 | 133-4       |         |             |    |         |
|           |                    |      |                    |      | 110  | 1105  |     |        |        |            |       |             |         |             |    |         |

Gain too low on entire day's shooting. T.E. requested to open gain by G.I.P.

# LAND SEISMIC RECORDING LOG

|   |                        |                              |                           |                               |   |
|---|------------------------|------------------------------|---------------------------|-------------------------------|---|
|  | CLIENT: <u>Hussley</u> | PROSPECT: <u>NPR-4 VMIAT</u> | AREA: <u>N. Slope Acc</u> | LINE NO.: <u>04</u>           |  |
|   | PARTY NO.: <u>1173</u> | INST. ENG.: <u>Z BERTSCH</u> |                           | DATE: <u>MO 2 DAY 9 YR 78</u> |   |

|                             |   |  |  |  |  |                             |  |  |                       |
|-----------------------------|---|--|--|--|--|-----------------------------|--|--|-----------------------|
| INSTRUMENT<br>(9-TRACK)     | <input type="checkbox"/> 1 SYSTEM<br><input type="checkbox"/> 2 SYSTEMS   | <input type="checkbox"/> 1-24 & 25-48<br><input type="checkbox"/> 1-48 & 49-96   | <input type="checkbox"/> ODDS<br><input type="checkbox"/> EVENS  | TYPE: <input type="checkbox"/> DFS III <input type="checkbox"/> DFS X <input type="checkbox"/> OTHER | <input type="checkbox"/> 9 TRACK<br><input type="checkbox"/> 21 TRACK                              | FORMAT: _____<br>SEG: _____ | <input type="checkbox"/> GAPPED<br><input type="checkbox"/> UNGAPPED           | PACKING DENSITY: (LO) <input type="checkbox"/> 350 BPI (HI) <input type="checkbox"/> 712 BPI <input type="checkbox"/> 1600 BPI |                       |
|                             | NO. BYTES IN HEADER REC: _____  | NO. BYTES IN RECORD ID: _____  | NO. BYTES PER SCAN: _____  | RECORD NUMBERS: _____  | <input type="checkbox"/> DEC. <input type="checkbox"/> OCT.  | GAIN CONSTANT: _____ db     | INPUT IMPEDANCE: _____ ohm   | (1) _____ (2) _____ (3) _____ (4) _____ (5) _____ (6) _____ (7) _____  |                       |
| CONFIGURATION<br>(MAG TAPE) | FIELD TRACE NOS.: _____   |  |  | AUXILIARY DATA: _____  |  |                             | AUXILIARY CHANNEL NOS.: _____  |  |                       |
| PARAMETER                   | RECORD LENGTH: _____ sec.   | SAMPLE RATE: <input type="checkbox"/> 1 ms. <input type="checkbox"/> 4 ms. <input type="checkbox"/> 2 ms. <input type="checkbox"/> _____ ms. | GAIN MODE: <input type="checkbox"/> INITIAL <input type="checkbox"/> MANUAL <input type="checkbox"/> IFP <input type="checkbox"/> FINAL <input type="checkbox"/> OPERATE | FILTERS: _____   | LO CUT HZ SLOPE _____  | HI CUT HZ SLOPE _____       | NOTCH FILTER: <input type="checkbox"/> IN <input type="checkbox"/> OUT         |  |                       |
| DISPLAY                     | MODE: <input type="checkbox"/> AGC <input type="checkbox"/> FLOAT <input type="checkbox"/> DEFLOAT <input type="checkbox"/> AMPLIFIER <input type="checkbox"/> DIRECT | INITIAL GAIN: _____ db   | TRIP SENS: _____ db  | POLARITY CONVENTION: _____   | PRESSURE INCREASE ON GEOPHONE: <input type="checkbox"/> NEGATIVE <input type="checkbox"/> POSITIVE | NUMBERS ON MAG. TAPE: _____ | DOWNBREAK <input type="checkbox"/> UPBREAK <input type="checkbox"/> ON DISPLAY |  |                       |
| CFS I                       | TYPE STACK: _____   | GATE LENGTH: _____   | RECORD REJECTION: _____  | NOISE REDUCTION: _____   | NOISE THRESHOLD: _____   | CORR. SCALING: _____        | R.C.U. NORM/ALT SW. _____  |  |                       |
| SOURCE                      | TYPE: <input type="checkbox"/> DYNAMITE <input type="checkbox"/> VIBROSEIS <input type="checkbox"/> OTHER   | PATTERN: _____   | NO. OF POSITIONS: _____  | INLINE SPACING: _____  | LATERAL SPACING: _____   | STAGGER: _____              | LENGTH: _____  | WIDTH: _____   | LATERAL OFFSET: _____ |
| RECEIVER                    | CONNECTION: _____   | RESISTANCE: _____ ohms   | STAGGER: _____   | SWEEP START: _____   | SWEEP END: _____   | SWEEP LENGTH: _____         | SWEEP TAPER: _____   | PHASE COMP: _____  |                       |
| SPREAD                      | NO. OF GROUPS: _____  | GROUP INTERVAL: _____  | SHOTPOINT INTERVAL: _____  | FOLD: _____  | OFFSET GROUP 1: _____  | OFFSET GROUP 48/96: _____   | DIRECTION OF PROGRESSION: _____  | LEADING GROUP: _____   |                       |

DIAGRAMS/MISC. INFORMATION:

| SHOTPOINT | TR. _____ to _____ |      | TR. _____ to _____ |      | SHOT |       |     |        | SPREAD |            |       | REMARKS: | CORR. STACK     |     |
|-----------|--------------------|------|--------------------|------|------|-------|-----|--------|--------|------------|-------|----------|-----------------|-----|
|           | REEL NO.           | REC. | REEL NO.           | REC. | SIZE | DEPTH | NO. | OFFSET | DIR.   | CDP SWITCH | #1    |          | LINE GROUPS #76 | HY. |
| 1124      | 75114815           | 1917 | 100007             | TAPE | 110  | 105   |     |        |        | 25         | 109-1 | 132-4    |                 |     |
| 1126      |                    | 1918 |                    |      | 110  | 105   |     |        |        | 21         | 108-1 | 131-4    |                 |     |
| 1118      |                    | 1919 |                    |      | 110  | 105   |     |        |        | 17         | 101-1 | 130-4    |                 |     |
| 1118      |                    |      |                    |      |      |       |     |        |        | 13         | 106-1 | 129-4    |                 |     |
| 1117      |                    |      |                    |      |      |       |     |        |        | 9          | 105-1 | 128-4    |                 |     |
| 1116      |                    |      |                    |      |      |       |     |        |        | 5          | 104-1 | 127-4    |                 |     |
| 1115      |                    |      |                    |      |      |       |     |        |        |            |       |          |                 |     |

# LAND SEISMIC RECORDING LOG



|  |  |   |                      |   |             |   |  |
|--|--|---|----------------------|---|-------------|---|--|
|  |  | CLIENT: Husky   | PROSPECT: NPR-4 Omat | AREA: NORTH SLOPE, ALASKA   | LINE NO: 04 |   |  |
| PARTY NO: 1173                         |  | INST. ENG: TC Bentsch/Lang  |                      | Rec Hrs 14.0  |             | DATE: MO 2 DAY 9 YE 78  |  |
| INSTRUMENT (9-TRACK)                   |  | <input checked="" type="checkbox"/> 1 SYSTEM<br><input checked="" type="checkbox"/> 2 SYSTEMS<br><input type="checkbox"/> 1-24 & 25-48<br><input type="checkbox"/> 1-48 & 49-96 |                      | TYPE: <input type="checkbox"/> DFS III <input type="checkbox"/> DFS II <input type="checkbox"/> DFS I<br><input type="checkbox"/> OTHER |             | NO. TRACKS: <input type="checkbox"/> 9 TRACK <input type="checkbox"/> 21 TRACK<br>FORMAT: SEG <input type="checkbox"/> GAPPED <input type="checkbox"/> UNGAPPED |  |
| NO. BYTES IN HEADER REC: 228           |  | NO. BYTES IN RECORD ID: 2   |                      | NO. BYTES PER SCAN: 254   |             | RECORD NUMBERS: <input type="checkbox"/> DEC. <input checked="" type="checkbox"/> OCT.<br>GAIN CONSTANT: 3.6 db<br>INPUT IMPEDANCE: 2000 ohm                    |  |
| CONFIGURATION (MAG TAPE)               |  | FIELD TRACE NOS.: 1-96  |                      | AUXILIARY DATA:   |             | AUXILIARY CHANNEL NOS.:   |  |
| DATA CHANNEL NOS.: 6/100 (ON MAG TAPE) |  |   |                      |   |             |   |  |
| PARAMETER                              |  | RECORD LENGTH: 9 sec.   |                      | SAMPLE RATE: <input type="checkbox"/> 1 ms. <input type="checkbox"/> 4 ms.  |             | GAIN MODE: <input type="checkbox"/> INITIAL <input type="checkbox"/> MANUAL <input type="checkbox"/> FINAL <input type="checkbox"/> OPERATE                     |  |
| DISPLAY                                |  | MODE: <input checked="" type="checkbox"/> AGC <input type="checkbox"/> FLOAT <input type="checkbox"/> AMPLIFIER <input type="checkbox"/> DIRECT                                 |                      | INITIAL GAIN: 24 db   |             | TRIP SENS: 0 db   |  |
| CFS I                                  |  | TYPE STACK:   |                      | GATE LENGTH:  |             | RECORD REJECTION:   |  |
| SOURCE                                 |  | TYPE: <input checked="" type="checkbox"/> DYNAMITE <input type="checkbox"/> VIBROSEIS <input type="checkbox"/> OTHER  |                      | PATTERN: INCLINE  |             | NO. OF POSITIONS: 18  |  |
| RECEIVER                               |  | TYPE: D20-10-N  |                      | CONNECTION: See Par   |             | RESISTANCE: 220 ohms  |  |
| SPREAD                                 |  | NO. OF GROUPS: 96   |                      | GROUP INTERVAL: 220'  |             | SHOTPOINT INTERVAL: 880'  |  |
|  |  | OFFSET GROUP 1: 10450'  |                      | OFFSET GROUP 48: 110'   |             | OFFSET GROUP 49: 110'   |  |
|  |  |   |                      |   |             | OFFSET GROUP 48/96: 10450'  |  |

DIAGRAMS/MISC. INFORMATION:  
 W.O. DRILLS FOR FEW HRS IN MORNING

| SHOTPOINT | TR. NO.  |      | TR. NO.  |      | SHOT |       | SPREAD |        | REMARKS | CORR. STACK |          |
|-----------|----------|------|----------|------|------|-------|--------|--------|---------|-------------|----------|
|           | REEL NO. | REC. | REEL NO. | REC. | SIZE | DEPTH | NO.    | OFFSET |         | TR 1-48     | TR 49-96 |
| 1118      | 75/1456  | 1107 | 75/1456  | 1107 | 110  | 105   | 49     | 106-1  | 129-4   |             |          |
| 1117      |          | 1108 |          | 1108 | 110  | 105   | 45     | 105-1  | 125-4   |             |          |
| 1116      |          | 1109 |          | 1109 | 110  | 105   | 41     | 104-1  | 127-4   |             |          |
| 1115      |          | 1110 |          | 1110 | 110  | 105   | 37     | 103-1  | 126-4   |             |          |
| 1114      |          | 1111 |          | 1111 | 110  | 105   | 33     | 102-1  | 125-4   |             |          |
| 1113      |          | 1113 |          | 1113 | 110  | 105   | 29     | 101-1  | 124-4   |             |          |
| 1112      |          | 1114 |          | 1114 | 110  | 105   | 25     | 100-1  | 123-4   |             |          |
| 1111      |          | 1116 |          | 1116 | 110  | 105   | 21     | 99-1   | 122-4   |             |          |
| 1109      |          | 1117 |          | 1117 | 110  | 105   | 17     | 95-1   | 121-4   |             |          |
| 1108      |          | 1118 |          | 1118 | 110  | 105   | 13     | 97-1   | 120-4   |             |          |
| 1107      |          | 1119 |          | 1119 | 110  | 105   | 9      | 96-1   | 119-4   |             |          |
| 1106      |          | 1120 |          | 1120 | 110  | 105   | 5      | 95-1   | 118-4   |             |          |
| 1105      |          | 1121 |          | 1121 | 110  | 105   | 49     | 94-1   | 117-4   |             |          |
| 1104      |          | 1122 |          | 1122 | 110  | 105   | 45     | 93-1   | 116-4   |             |          |
| 1103      |          | 1124 |          | 1124 | 110  | 105   | 41     | 92-1   | 115-4   |             |          |
| 1102      |          | 1125 |          | 1125 | 110  | 105   | 38     | 91-1   | 114-4   |             |          |
| 1101      |          | 1126 |          | 1126 | 110  | 105   | 33     | 90-1   | 113-4   |             |          |
| 1100      |          | 1127 |          | 1127 | 110  | 105   | 29     | 89-1   | 112-4   |             |          |
| 1099      |          | 1128 |          | 1128 | 110  | 105   | 25     | 88-1   | 111-4   |             |          |
| 1098      |          | 1129 |          | 1129 | 110  | 105   | 21     | 87-1   | 110-4   |             |          |



# LAND SEISMIC RECORDING LOG

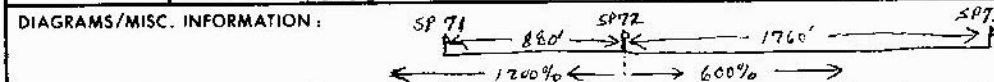
|   |   |  |  |   |  |                            |  |  |  |
|---|---|--|--|---|--|----------------------------|--|--|--|
|  | CLIENT: <u>Husk</u>   | PROSPECT: <u>NPR-4 Umiat</u>   | AREA: <u>N. Slope Aic</u>  | LINE NO: <u>U4</u>  |                 |                            |  |  |  |
| PARTY NO: <u>1173</u>   |   | INST. ENG: <u>Z. BERTSCH</u>   |  | DATE: <u>MO 2 DAY 9 YR 70</u>   |  |                            |  |  |  |
| INSTRUMENT<br>(9-TRACK)   | <input type="checkbox"/> 1 SYSTEM<br><input type="checkbox"/> 2 SYSTEMS   | <input type="checkbox"/> 1-24 & 25-48<br><input type="checkbox"/> 1-48 & 49-96   | ODDS & EVENS<br><input type="checkbox"/>                                   | TYPE: <input type="checkbox"/> DFS III<br><input type="checkbox"/> DFS IV<br><input type="checkbox"/> OTHER | <input type="checkbox"/> 9 TRACK<br><input type="checkbox"/> 21 TRACK                              | FORMAT: _____<br>SEG _____ | <input type="checkbox"/> GAPPED<br><input type="checkbox"/> UNGAPPED | PACKING DENSITY: (LO) <input type="checkbox"/> 356 BPI<br><input type="checkbox"/> 800 BPI | (HI) <input type="checkbox"/> 712 BPI<br><input type="checkbox"/> 1600 BPI |
|   | NO. BYTES IN HEADER REC: _____  | NO. BYTES IN RECORD ID: _____  | NO. BYTES PER SCAN: _____  | RECORD NUMBERS: _____   | <input type="checkbox"/> DEC. <input type="checkbox"/> OCT.  | GAIN CONSTANT: _____ db    | INPUT IMPEDANCE: _____ ohms  | (1) _____ (2) _____ (3) _____ (4) _____ (5) _____ (6) _____ (7) _____                      |  |
| CONFIGURATION (MAG TAPE)  | FIELD TRACE NOS.: _____   |  |  | AUXILIARY DATA: _____   |  |                            | AUXILIARY CHANNEL NOS.: _____  |  |  |
| PARAMETER   | RECORD LENGTH: _____ sec.   | SAMPLE RATE: <input type="checkbox"/> 1 ms. <input type="checkbox"/> 4 ms. <input type="checkbox"/> 2 ms. <input type="checkbox"/> _____ ms. | GAIN MODE: <input type="checkbox"/> INITIAL <input type="checkbox"/> FINAL | <input type="checkbox"/> MANUAL <input type="checkbox"/> OPERATE  | FILTERS: _____   | LO CUT HZ SLOPE _____      | HI CUT HZ SLOPE _____  | NOTCH FILTER: <input type="checkbox"/> IN <input type="checkbox"/> OUT                     |  |
| DISPLAY   | MODE: <input type="checkbox"/> AGC <input type="checkbox"/> FLOAT <input type="checkbox"/> DEFLOAT <input type="checkbox"/> AMPLIFIER <input type="checkbox"/> DIRECT | INITIAL GAIN: _____ db   | TRIP SENS: _____ db  | POLARITY CONVENTION: _____  | PRESSURE INCREASE ON GEOPHONE: <input type="checkbox"/> NEGATIVE <input type="checkbox"/> POSITIVE | NUMBERS ON ON MAG. TAPE    | DOWNBREAK UPBREAK  | ON DISPLAY   |  |
| CFS I   | TYPE STACK: _____   | GATE LENGTH: _____   | RECORD REJECTION: _____  | NOISE REDUCTION: _____  | NOISE THRESHOLD: _____   | CORR. SCALING: _____       | R.C.U. NORM/ALT SW.  |  |  |
| SOURCE  | TYPE: <input type="checkbox"/> DYNAMITE <input type="checkbox"/> VIBROSEIS <input type="checkbox"/> OTHER   | PATTERN: _____   | NO. OF POSITIONS: _____  | INLINE SPACING: _____   | LATERAL SPACING: _____   | STAGGER: _____             | LENGTH: _____  | WIDTH: _____   | LATERAL OFFSET: _____  |
| RECEIVER  | CONNECTION: _____   | RESISTANCE: _____ ohms   | STAGGER: _____   | LENGTH: _____   | WIDTH: _____   | LATERAL OFFSET: _____      |  |  |  |
| SPREAD  | NO. OF GROUPS: _____  | GROUP INTERVAL: _____  | SHOTPOINT INTERVAL: _____  | FOLD: _____   | DIRECTION OF PROGRESSION: _____  |                            |  |  |  |

DIAGRAMS/MISC. INFORMATION:

| SHOTPOINT | TR. _____ to _____ |      | TR. _____ to _____ |      | SHOT |       |     |        | SPREAD |            |    |             | REMARKS: | CORR. STAGE |        |        |         |
|-----------|--------------------|------|--------------------|------|------|-------|-----|--------|--------|------------|----|-------------|----------|-------------|--------|--------|---------|
|           | REEL NO.           | REC. | REEL NO.           | REC. | SIZE | DEPTH | NO. | OFFSET | DIR.   | COP SWITCH | #1 | LINE GROUPS |          | #2          | TR 1-4 | TR 4-8 | TR 8-12 |
| 88        | 751                | 145  | 1310               |      | 110  | 105   |     |        |        |            | 17 | 86-1        | 109-4    |             |        |        |         |
| 87        |                    | 132  |                    |      | 110  | 105   |     |        |        |            | 13 | 85-1        | 108-4    |             |        |        |         |
| 96        |                    | 132  |                    |      | 110  | 105   |     |        |        |            | 45 | 84-1        | 107-4    | 91          |        |        |         |
| 95        |                    | 133  |                    |      | 110  | 105   |     |        |        |            | 41 | 83-1        | 106-4    |             |        |        |         |
| 94        |                    | 134  |                    |      | 110  | 105   |     |        |        |            | 37 | 82-1        | 105-4    |             |        |        |         |
| 93        |                    | 135  |                    |      | 110  | 105   |     | 175    | E      |            | 33 | 81-1        | 104-4    |             |        |        |         |
| 92        |                    | 136  |                    |      | 110  | 105   |     | 180    | N      |            | 29 | 80-1        | 103-4    |             |        |        |         |
| 91        |                    | 137  |                    |      | 110  | 105   |     |        |        |            | 25 | 79-1        | 102-4    |             |        |        |         |
| 90        |                    | 138  |                    |      | 110  | 105   |     |        |        |            | 21 | 78-1        | 101-4    |             |        |        |         |
| 89        |                    | 139  |                    |      | 110  | 105   |     |        |        |            | 17 | 77-1        | 100-4    |             |        |        |         |
| 88        |                    | 140  |                    |      | 110  | 105   |     |        |        |            | 13 | 76-1        | 99-4     |             |        |        |         |
| 87        |                    | 141  |                    |      | 110  | 105   |     |        |        |            | 9  | 75-1        | 98-4     |             |        |        |         |
| 86        |                    | 142  |                    |      | 110  | 105   |     |        |        |            | 5  | 74-1        | 97-4     |             |        |        |         |
| 85        |                    | 143  |                    |      | 110  | 105   |     |        |        |            | 1  | 73-1        | 96-4     |             |        |        | WEAK    |

# LAND SEISMIC RECORDING LOG



|                          |   |   |   |   |   |
|--------------------------|---|---|---|---|---|
|                          | CLIENT: <u>Hosky</u>  | PROSPECT: <u>NPR-4 Umat</u>   | AREA: <u>N. Slope ALMIA</u>   | LINE NO: <u>04</u>  |   |
|                          | PARTY NO: <u>1173</u>   | INST. ENG: <u>R. BERTSCH</u>  | REC HRS <u>14.5 TRAVEL 2.0</u>  |   | DATE: <u>MO 2 DAY 10 YR 78</u>  |
| INSTRUMENT               | <input checked="" type="checkbox"/> 1 SYSTEM<br><input type="checkbox"/> 2 SYSTEMS  | <input type="checkbox"/> 1-24 & 25-48<br><input type="checkbox"/> 1-48 & 49-96        | ODDS EVENS  | TYPE: <input type="checkbox"/> DFS III<br><input type="checkbox"/> DFS IV<br><input type="checkbox"/> OTHER | <input checked="" type="checkbox"/> 9 TRACK<br><input type="checkbox"/> 21 TRACK                    |
| [9-TRACK]                | NO. BYTES IN HEADER REC: <u>228</u>   | NO. BYTES IN RECORD ID: <u>2</u>  | NO. BYTES PER SCAN: <u>254</u>  | RECORD NUMBERS: <input checked="" type="checkbox"/> DEC. <input type="checkbox"/> OCT.                      | GAIN CONSTANT: <u>36</u> db   |
| CONFIGURATION (MAG TAPE) | FIELD TRACE NOS.: <u>1-96</u>   |   |   | AUXILIARY DATA:   |   |
|                          | DATA CHANNEL NOS.: <u>6-100</u> (ON MAG TAPE)   |   |   | AUXILIARY CHANNEL NOS.:   |   |
| PARAMETER                | RECORD LENGTH: <u>8</u> sec.  | SAMPLE RATE: <input checked="" type="checkbox"/> 1 ms. <input type="checkbox"/> 4 ms. | GAIN MODE: <input checked="" type="checkbox"/> INITIAL <input type="checkbox"/> FINAL | MANUAL <input type="checkbox"/> OPERATE   | FILTERS: FREQ. <u>8</u> LO CUT HZ SLOPE <u>18</u> HI CUT HZ SLOPE <u>70</u>                         |
| DISPLAY                  | MODE: <input checked="" type="checkbox"/> AGC <input type="checkbox"/> FLOAT <input type="checkbox"/> AMPLIFIER <input type="checkbox"/> DIRECT | INITIAL GAIN: <u>24</u> db  | TRIP SENS: <u>36</u> db   | NOISE REDUCTION:  | POLARITY CONVENTION: <input type="checkbox"/> NEGATIVE <input checked="" type="checkbox"/> POSITIVE |
| CFS I                    | TYPE STACK:   | GATE LENGTH:  | RECORD REJECTION:   | NOISE THRESHOLD:  | CORR. SCALING:  |
| SOURCE                   | TYPE: <input checked="" type="checkbox"/> DYNAMITE <input type="checkbox"/> VIBROSEIS <input type="checkbox"/> OTHER                            | PATTERN:  | NO. OF POSITIONS:   | INCLINE SPACING:  | LATERAL SPACING:  |
|                          | CHG/ HOLE: <u>110</u>   | HOLE DEPTH: <u>105</u>  | SWEEP POSITION:   | SWEEP START:  | SWEEP END:  |
| RECEIVER                 | TYPE: <u>D20-10</u>   | PATTERN: <u>INLINE</u>  | NO. OF ELEMENTS: <u>18</u>  | INCLINE SPACING: <u>12</u>  | LATERAL SPACING: <u>220</u>   |
|                          | CONNECTION: <u>SPR-PAU</u>  | RESISTANCE: <u>220</u> ohms   | STAGGER:  | LENGTH: <u>220</u>  | WIDTH: <u>220</u>   |
| SPREAD                   | NO. OF GROUPS: <u>96</u>  | GROUP INTERVAL: <u>220</u>  | SHOTPOINT INTERVAL: <u>880' → 1760</u>  | FOLD: <u>200%</u> → <u>600%</u>   | DIRECTION OF PROGRESSION: <u>NORTH</u>  |
|                          | OFFSET GROUP 1: <u>10450</u>  | OFFSET GROUP <u>49</u> : <u>110</u>   | OFFSET GROUP <u>49</u> : <u>110</u>   | OFFSET GROUP <u>48/96</u> : <u>10450</u>  | LEADING GROUP: <u>7</u>   |



| SHOTPOINT | TR. 10   |      | TR. 10      |       | SHOT |       | SPREAD |        | REMARKS | CORR. STACK |  |
|-----------|----------|------|-------------|-------|------|-------|--------|--------|---------|-------------|--|
|           | REEL NO. | REC. | REEL NO.    | REC.  | SIZE | DEPTH | NO.    | OFFSET |         | HT.         | REC.                                   |
| 81        | 75114516 | 1414 | (ICORINITY) | TIAPE | 110  | 105   | 45     | 22-1   | 95-4    | 79          |  |
| 83        |          | 1413 |             |       | 110  | 105   | 41     | 21-5   | 94-4    |             |  |
| 82        |          | 1412 |             |       | 110  | 105   | 37     | 21-1   | 93-4    |             |  |
| 81        | 75114517 | 1418 | CHANGE      | TIAPE | 110  | 105   | 33     | 20-5   | 92-4    |             | I.D. REC F#147                         |
| 80        |          | 1419 |             |       | 110  | 105   | 29     | 20-1   | 91-4    |             |  |
| 79        |          | 1450 |             |       | 110  | 105   | 25     | 20-5   | 90-4    |             |  |
| 78        |          | 1451 |             |       | 110  | 105   | 21     | 20-1   | 89-4    |             |  |
| 77        |          | 1452 |             |       | 110  | 105   | 17     | 20-5   | 88-4    |             |  |
| 76        |          | 1453 |             |       | 110  | 105   | 13     | 20-1   | 87-4    |             |  |
| 75        |          | 1454 |             |       | 110  | 105   | 9      | 20-5   | 86-4    |             |  |
| 74        |          | 1455 |             |       | 110  | 105   | 5      | 20-1   | 85-4    |             |  |
| 73        |          | 1456 |             |       | 110  | 105   | 49     | 20-5   | 84-4    |             |  |
| 72        |          | 1457 | 61          | FOLD  | 110  | 105   | 45     | 20-1   | 83-4    |             | LAST SP OF 1200% FOLD - CHANGE TO 600% |
| 71        |          | 1458 | 61          | FOLD  | 110  | 105   | 37     | 20-5   | 81-4    |             | 6 FOLD                                 |
| 70        |          | 1459 |             |       | 110  | 105   | 29     | 20-1   | 79-4    |             |  |
| 69        |          | 1460 |             |       | 110  | 105   | 21     | 20-5   | 77-4    |             |  |
| 68        |          | 1461 |             |       | 110  | 105   | 13     | 20-1   | 75-4    |             |  |
| 67        |          | 1462 |             |       | 110  | 105   | 41     | 20-5   | 73-4    |             | 65                                     |
| 66        |          | 1463 |             |       | 110  | 105   | 33     | 20-1   | 71-8    |             |  |
| 65        |          | 1464 |             |       | 110  | 105   | 25     | 20-5   | 70-8    |             |  |

# LAND SEISMIC RECORDING LOG

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|   |  |   |   |   |  |                                  |   |   |                       |
|---|--|---|---|---|--|----------------------------------|---|---|-----------------------|
|  | CLIENT:<br><b>USGS - Husky</b>   | PROSPECT:   | AREA:   | LINE NO:<br><b>U-4</b>  |                 |                                  |   |   |                       |
|   | PARTY NO:<br><b>173</b>  | INST. ENG.:   |   | DATE:<br><b>MO 02 DAY 10 YR 78</b>  |  |                                  |   |   |                       |
| INSTRUMENT<br>(9-TRACK)   | <input checked="" type="checkbox"/> 1 SYSTEM<br><input checked="" type="checkbox"/> 2 SYSTEMS  | <input type="checkbox"/> 1-24 & 25-48<br><input checked="" type="checkbox"/> 1-48 & 49-96                           | <input type="checkbox"/> ODDS<br><input type="checkbox"/> EVENS   | TYPE: <input type="checkbox"/> DFS III<br><input type="checkbox"/> DFS IIC<br><input checked="" type="checkbox"/> OTHER | <input checked="" type="checkbox"/> TRACK<br><input type="checkbox"/> 21 TRACK                     | FORMAT: SEG <b>B</b>             | <input type="checkbox"/> GAPPED<br><input checked="" type="checkbox"/> UNGAPPED | PACKING DENSITY: (LQ) <input type="checkbox"/> 356 BPI (HI) <input type="checkbox"/> 712 BPI<br><input type="checkbox"/> 800 BPI <input checked="" type="checkbox"/> 1600 BPI |                       |
|   | NO. BYTES IN HEADER REC: <b>228</b>  | NO. BYTES IN RECORD ID: <b>2</b>  | NO. BYTES PER SCAN: <b>256</b>  | RECORD NUMBERS: <input checked="" type="checkbox"/> DEC. <input type="checkbox"/> OCT.                                  | GAIN CONSTANT: <b>36</b> db  | INPUT IMPEDANCE: <b>2000</b> ohm |   |   |                       |
| CONFIGURATION (MAG TAPE)  | FIELD TRACE NOS.:  |   |   | AUXILIARY DATA:   |  |                                  | AUXILIARY CHANNEL NOS.:   |   |                       |
| PARAMETER   | RECORD LENGTH: _____ sec.  | SAMPLE RATE: <input type="checkbox"/> 1 ml. <input type="checkbox"/> 4 ml. <input type="checkbox"/> 2 ml. _____ ms. | GAIN MODE: <input type="checkbox"/> INITIAL <input type="checkbox"/> MANUAL <input type="checkbox"/> OPERATE<br><input type="checkbox"/> IFP <input type="checkbox"/> FINAL | FILTERS: _____  | LO CUT HZ SLOPE: _____   | FREQ: _____                      | HI CUT HZ SLOPE: _____  | NOTCH FILTER: <input type="checkbox"/> IN <input type="checkbox"/> OUT  |                       |
| DISPLAY   | MODE: <input type="checkbox"/> AGC <input type="checkbox"/> FLOAT <input type="checkbox"/> AMPLIFIER <input type="checkbox"/> DIRECT | INITIAL GAIN: _____ db  | TRIP SENS: _____ db   | POLARITY CONVENTION: _____  | PRESSURE INCREASE ON GEOPHONE: <input type="checkbox"/> NEGATIVE <input type="checkbox"/> POSITIVE | NUMBERS ON DN MAG TAPE: _____    |   | <input type="checkbox"/> DOWNBREAK <input type="checkbox"/> UPBREAK } ON DISPLAY  |                       |
| CFS 1   | TYPE STACK: _____  | GATE LENGTH: _____  | RECORD REJECTION: _____   | NOISE REDUCTION: _____  | NOISE THRESHOLD: _____   | CORR. SCALING: _____             | R.C.U. NORM/ALT SW.   |   |                       |
| SOURCE  | TYPE: <input type="checkbox"/> DYNAMITE <input type="checkbox"/> VIBROSEIS <input type="checkbox"/> OTHER                            | PATTERN: _____  | NO. OF POSITIONS: _____   | INLINE SPACING: _____   | LATERAL SPACING: _____   | STAGGER: _____                   | LENGTH: _____   | WIDTH: _____  | LATERAL OFFSET: _____ |
| RECEIVER  | CONNECTION: _____  | RESISTANCE: _____ ohms  | STAGGER: _____  | INCLINE SPACING: _____  | LENGTH: _____  | WIDTH: _____                     | LATERAL OFFSET: _____   |   |                       |
| SPREAD  | NO. OF GROUPS: _____   | GROUP INTERVAL: _____   | SHOTPOINT INTERVAL: _____   | FOLD: _____   | OFFSET GROUP 48/96: _____  | DIRECTION OF PROGRESSION: _____  |   |   |                       |

DIAGRAMS/MISC. INFORMATION:

| SHOTPOINT | TR. _____ to _____ |      | TR. _____ to _____ |      | SHOT |       |     |        | SPREAD |            |      |             | REMARKS: | CORR. STACK                       |        |         |          |         |
|-----------|--------------------|------|--------------------|------|------|-------|-----|--------|--------|------------|------|-------------|----------|-----------------------------------|--------|---------|----------|---------|
|           | REEL NO.           | REC. | REEL NO.           | REC. | SIZE | DEPTH | NO. | OFFSET | DIR.   | COP SWITCH | #1   | LINE GROUPS |          | #96                               | SEY UP | TR 1-48 | TR 48-96 | TR 1-48 |
| 164       | 75                 | 1457 | 1169               |      | 110  | 105   |     |        |        | 17         | 58-1 | 29-8        | 65       |                                   |        |         |          |         |
| 163       |                    | 1616 |                    |      | 110  | 105   |     |        |        | 9          | 57-1 | 68-8        |          |                                   |        |         |          |         |
| 162       |                    | 1617 |                    |      | 110  | 105   |     |        |        | 49         | 56-1 | 67-8        | 59       | CHANGING BAD CABLE                |        |         |          |         |
| 161       |                    | 1618 |                    |      | 110  | 105   |     |        |        | 41         | 65-1 | 66-8        |          | WRITE FACIES AT 6150ms (PARITIES) |        |         |          |         |
| 160       |                    | 1619 |                    |      | 110  | 105   |     |        |        | 33         | 54-1 | 65-8        |          |                                   |        |         |          |         |
| 159       |                    | 1720 |                    |      | 110  | 105   |     |        |        | 25         | 53-1 | 64-8        |          |                                   |        |         |          |         |
| 158       |                    | 1711 |                    |      | 110  | 105   |     |        |        | 17         | 52-1 | 63-8        |          |                                   |        |         |          |         |
| 157       |                    | 1772 |                    |      | 110  | 105   |     |        |        | 9          | 51-1 | 62-8        |          |                                   |        |         |          |         |
| 156       |                    | 1773 |                    |      | 110  | 105   |     |        |        | 49         | 50-1 | 61-8        | 53       |                                   |        |         |          |         |
| 155       |                    | 1774 |                    |      | 110  | 105   |     |        |        | 41         | 49-1 | 60-8        |          |                                   |        |         |          |         |
| 154       |                    | 1775 |                    |      | 110  | 105   |     |        |        | 33         | 48-1 | 59-8        |          | A BIT WEAK                        |        |         |          |         |
| 153       |                    | 1776 |                    |      | 110  | 105   |     |        |        | 25         | 47-1 | 58-8        |          |                                   |        |         |          |         |
| 152       |                    | 1777 |                    |      | 110  | 105   |     |        |        | 17         | 46-1 | 57-8        |          |                                   |        |         |          |         |
| 151       |                    | 1778 |                    |      | 110  | 105   |     |        |        | 9          | 45-1 | 56-8        |          | FILE 178 MISFIRE-KILL             |        |         |          |         |

14/3  
TOTAL  
R S  
MILES

# LAND SEISMIC RECORDING LOG

|   |   |  |   |  |   |                                  |   |                  |   |  |  |
|---|---|--|---|--|---|----------------------------------|---|------------------|---|--|--|
|  | CLIENT:<br><b>USGS - Husky</b>  | PROSPECT:<br><b>NPR-4 UMIAT</b>  | AREA:<br><b>NORTH Slope ALASKA</b>  | LINE NO:<br><b>U-4</b>   |   |                                  |   |                  |   |  |  |
|   | PARTY NO:<br><b>1173</b>  | INST. ENG:<br><b>LANE - PANKO</b>  | <b>TOTAL 14.5 TRAVEL 3.0</b>  | DATE:<br>MO. <b>02</b> DAY <b>14</b> YR <b>78</b>  |   |                                  |   |                  |   |  |  |
| INSTRUMENT<br>(9-TRACK)   | <input checked="" type="checkbox"/> 1 SYSTEM<br><input type="checkbox"/> 2 SYSTEMS  | <input type="checkbox"/> 1-24 & 25-48<br><input type="checkbox"/> 1-48 & 49-96                                       | ODDS<br><input type="checkbox"/> EVENS  | TYPE: <input type="checkbox"/> DFS I <input type="checkbox"/> DFS II <input type="checkbox"/> DFS III <input type="checkbox"/> OTHER | <input type="checkbox"/> 9 TRACK<br><input type="checkbox"/> 21 TRACK   | FORMAT:<br>SEG <b>6</b>          | <input type="checkbox"/> GAPPED<br><input checked="" type="checkbox"/> UNGAPPED | PACKING DENSITY: | (LQ) <input type="checkbox"/> 350 BPI<br><input type="checkbox"/> 800 BPI | (M1) <input type="checkbox"/> 712 BPI<br><input type="checkbox"/> 1600 BPI |  |
|   | NO. BYTES IN HEADER REC: <b>228</b>   | NO. BYTES IN RECORD ID: <b>2</b>   | NO. BYTES PER SCAN: <b>256</b>  | RECORD NUMBERS: <input checked="" type="checkbox"/> DEC. <input type="checkbox"/> OCT.   | GAIN CONSTANT: <b>36</b> db   | INPUT IMPEDANCE: <b>2000</b> ohm |   |                  |   |  |  |
| CONFIGURATION (MAG TAPE)  | FIELD TRACE NOS.: <b>1-96</b>   |  |   |  | AUXILIARY DATA:   |                                  |   |                  |   |  |  |
|   | DATA CHANNEL NOS.: <b>6-100</b> (ON MAG TAPE)   |  |   |  | AUXILIARY CHANNEL NOS.:   |                                  |   |                  |   |  |  |
| PARAMETER   | RECORD LENGTH: <b>8</b> sec.  | SAMPLE RATE: <input type="checkbox"/> 1 ms. <input type="checkbox"/> 4 ms. <input checked="" type="checkbox"/> 2 ms. | GAIN MODE: <input checked="" type="checkbox"/> TFP <input type="checkbox"/> INITIAL <input type="checkbox"/> FINAL <input type="checkbox"/> MANUAL <input type="checkbox"/> OPERATE | FILTERS: FREQ. <b>8</b> LO CUT HZ SLOPE <b>18</b> HI CUT HZ SLOPE <b>70</b>  | NOTCH FILTER: <input type="checkbox"/> IN <input checked="" type="checkbox"/> OUT   |                                  |   |                  |   |  |  |
| DISPLAY   | MODE: <input checked="" type="checkbox"/> AGC <input type="checkbox"/> FLOAT <input type="checkbox"/> AMPLIFIER <input type="checkbox"/> DEFOAT <input type="checkbox"/> DIRECT | INITIAL GAIN: <b>30</b> db   | TRIP SENS: <b>42.5</b> db   | POLARITY CONVENTION: <input type="checkbox"/> NEGATIVE <input checked="" type="checkbox"/> POSITIVE                                  | PRESSURE INCREASE ON GEOPHONE: <input type="checkbox"/> NUMBERS ON ON MAG. TAPE <input type="checkbox"/> DOWNBREAK <input type="checkbox"/> UPBREAK |                                  | ON DISPLAY  |                  |   |  |  |
| CFS I   | TYPE STACK:   | GATE LENGTH:   | RECORD REJECTION:   | NOISE REDUCTION:   | NOISE THRESHOLD:  | CORR. SCALING:                   | R.C.U. NORM/ALT SW.   |                  |   |  |  |
| SOURCE  | TYPE: <input checked="" type="checkbox"/> DYNAMITE <input type="checkbox"/> VIBROSEIS <input type="checkbox"/> OTHER  | PATTERN:   | NO. OF POSITIONS:   | INLINE SPACING:  | LATERAL SPACING:  | STAGGER:                         | LENGTH:   | WIDTH:           | LATERAL OFFSET:   |  |  |
|   |   | CMG/ HOLE: <b>110</b> #  | HOLE DEPTH: <b>105</b>  | SWEET POSITION:  | SWEET START:  | SWEET END:                       | SWEET LENGTH:   | SWEET TAPER:     | PHASE COMP.   |  |  |
| RECEIVER  | TYPE: <b>D20-10</b>   | PATTERN: <b>Inline</b>   | NO. OF ELEMENTS: <b>18</b>  | INCLINE SPACING: <b>12</b>   | LATERAL SPACING:  | STAGGER:                         | LENGTH: <b>220</b>  | WIDTH:           | LATERAL OFFSET:   |  |  |
|   | CONNECTION: <b>SERIES-PARALLEL</b>  | RESISTANCE: <b>220</b> ohms  | STAGGER:  | INCLINE SPACING: <b>12</b>   | LATERAL SPACING:  | STAGGER:                         | LENGTH: <b>220</b>  | WIDTH:           | LATERAL OFFSET:   |  |  |
| SPREAD  | NO. OF GROUPS: <b>96</b>  | GROUP INTERVAL: <b>220'</b>  | SHOTPOINT INTERVAL: <b>1760'</b>  | FOLD: <b>600%</b>  | DIRECTION OF PROGRESSION: <b>NORTH</b>  |                                  |   |                  |   |  |  |
|   | OFFSET GROUP 1: <b>10,450'</b>  | OFFSET GROUP 98: <b>110'</b>   | OFFSET GROUP 99: <b>110'</b>  | OFFSET GROUP 48/96: <b>10,450'</b>   | LEADING GROUP: <b>1</b>   |                                  |   |                  |   |  |  |


DIAGRAMS/MISC. INFORMATION: TRAVEL TIME **3:00** TOTAL HOURS **14.5**

| SHOTPOINT | TR. 1 to 96 |           | TR. to   |      | SHOT |       |      |        | SPREAD |            |    |             | REMARKS | CORR. STACK |        |         |  |
|-----------|-------------|-----------|----------|------|------|-------|------|--------|--------|------------|----|-------------|---------|-------------|--------|---------|--|
|           | REEL NO.    | REC.      | REEL NO. | REC. | SIZE | DEPTH | NO.  | OFFSET | DIR.   | CDP SWITCH | #1 | LINE GROUPS |         | #96         | SET UP | TR 1-48 | TR 48-96   |
| 09:50     | 1510        | 751141517 | 1193     | 17   | 2223 | 2027  | 2030 | 32     | 35     | 37         |    | 49          | 44-1    | 55-8        | 47     |         |  |
| 10:20     | 49          |           | 1194     |      |      | 1110  | 1105 |        |        |            |    | 41          | 43-1    | 54-8        |        |         |  |
| 10:42     | 48          |           | 1195     |      |      | 1110  | 1105 |        |        |            |    | 33          | 42-1    | 53-8        |        |         |  |
| 11:00     | 47          |           | 1196     |      |      | 1110  | 1105 |        |        |            |    | 25          | 41-1    | 52-8        |        |         |  |
| 11:18     | 46          |           | 1197     |      |      | 1110  | 1105 |        |        |            |    | 17          | 40-1    | 51-8        |        |         |  |
| 11:38     | 45          |           | 1198     |      |      | 1110  | 1105 |        |        |            |    | 9           | 39-1    | 50-8        |        |         |  |
| 12:40     | 44          | 75114558  | 2011     |      |      | 1110  | 1105 |        |        |            |    | 49          | 38-1    | 49-8        | 41     |         | FILE 199 2SEC ID FILE 200 MUDRE-KILL                 |
| 12:50     | 43          |           | 2012     |      |      | 1150  | 1135 |        |        |            |    | 41          | 37-1    | 48-8        |        |         |  |
| 13:05     | 42          |           | 2013     |      |      | 1110  | 1105 |        |        |            |    | 33          | 36-1    | 47-8        |        |         |  |
| 13:25     | 41          |           | 2014     |      |      | 1110  | 1105 |        |        |            |    | 25          | 35-1    | 46-8        |        |         | CAMP IS ON LINE - NOISY -                            |
| 13:45     | 40          |           | 2015     |      |      | 1110  | 1105 |        |        |            |    | 17          | 34-1    | 45-8        |        |         | - NOISY -  |
| 14:05     | 39          |           | 2016     |      |      | 1110  | 1105 |        |        |            |    | 9           | 33-1    | 44-8        |        |         | CAMP CROSSING LINE                                   |
| 16:00     | 38          |           | 2017     |      |      | 1110  | 1105 |        |        |            |    | 49          | 32-1    | 43-8        | 35     |         | LAYOUT SHG TRUCK STUCK                               |
| 16:20     | 37          |           | 2018     |      |      | 1110  | 1105 |        |        |            |    | 41          | 31-1    | 42-8        |        |         | WAITING ON CAMP TO CROSS LINE                        |
| 16:50     | 36          |           | 2019     |      |      | 1110  | 1105 |        |        |            |    | 33          | 30-1    | 41-8        |        |         |  |
| 17:05     | 35          |           | 210      |      |      | 1110  | 1105 |        |        |            |    | 25          | 29-1    | 40-8        |        |         |  |
| 17:17     | 34          |           | 211      |      |      | 1110  | 1105 |        |        |            |    | 17          | 28-1    | 39-8        |        |         |  |
| 17:35     | 33          |           | 212      |      |      | 1110  | 1105 |        |        |            |    | 9           | 27-1    | 38-8        |        |         | CABLE BLAST (SHOCK) CHECKED FOR LEAKAGE - none found |
| 18:31     | 32          |           | 213      |      |      | 1110  | 1105 |        |        |            |    | 49          | 26-1    | 37-8        | 29     |         |  |
| 19:15     | 31          |           | 2115     |      |      | 1140  | 1105 |        |        |            |    | 41          | 25-1    | 36-8        |        |         | File 214 NO DATA - Kill                              |



# LAND SEISMIC RECORDING LOG

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|   |   |  |   |  |  |   |  |   |                 |
|---|---|--|---|--|--|---|--|---|-----------------|
|  | CLIENT:<br><b>Husky</b>   | PROSPECT:<br><b>NPR-4 UMIAT</b>  | AREA:<br><b>NORTH SLOPE ALASKA</b>  | LINE NO:<br><b>U-4</b>   |  |   |  |   |                 |
|   | PARTY NO:<br><b>1173</b>  | INST. ENG:<br><b>LANE-PANCO-WILKINSON</b>                                      |   | DATE:<br><b>MO 02 DAY 12 YR 78</b>   |  |   |  |   |                 |
| INSTRUMENT<br>(9-TRACK)   | <input checked="" type="checkbox"/> 1 SYSTEM<br><input checked="" type="checkbox"/> 2 SYSTEMS   | <input type="checkbox"/> 1-24 & 25-48<br><input type="checkbox"/> 1-48 & 49-96 | ODDS<br><input type="checkbox"/> EVENS                                      | TYPE: <input type="checkbox"/> DFS III<br><input type="checkbox"/> DFS IV                | <input checked="" type="checkbox"/> 9 TRACK<br><input type="checkbox"/> 21 TRACK                   | FORMAT: <b>B</b>  | <input type="checkbox"/> GAPPED<br><input type="checkbox"/> UNGAPPED | PACKING DENSITY: (10) <input type="checkbox"/> 356 BPI (11) <input type="checkbox"/> 800 BPI (12) <input type="checkbox"/> 1600 BPI |                 |
|   | NO. BYTES IN HEADER REC: <b>228</b>   | NO. BYTES IN RECORD ID: <b>2</b>   | NO. BYTES PER SCAN: <b>256</b>  | RECORD NUMBERS: <input checked="" type="checkbox"/> DEC. <input type="checkbox"/> OCT.   | GAIN CONSTANT: <b>36</b> db  | INPUT IMPEDANCE: <b>2000</b> ohm  |  |   |                 |
| CONFIGURATION (MAG TAPE)  | FIELD TRACE NOS.: <b>1-96</b>   |  |   |  | AUXILIARY DATA:  |   |  |   |                 |
|   | DATA CHANNEL NOS.: <b>6-100</b> (ON MAG TAPE)   |  |   |  | AUXILIARY CHANNEL NOS.:  |   |  |   |                 |
| PARAMETER   | RECORD LENGTH: <b>8</b> sec.  | SAMPLE RATE: <input type="checkbox"/> 1 ms. <input type="checkbox"/> 4 ms.     | GAIN MODE: <input type="checkbox"/> INITIAL <input type="checkbox"/> MANUAL | FILTERS: FREQ. <b>8</b> LO CUT HZ SLOPE <b>18</b>  | FREQ. <b>128</b> HI CUT HZ SLOPE <b>70</b>   | NOTCH FILTER: <input type="checkbox"/> IN <input type="checkbox"/> OUT                    |  |   |                 |
| DISPLAY   | MODE: <input type="checkbox"/> FLOAT <input type="checkbox"/> AMPLIFIER<br><input checked="" type="checkbox"/> AGC <input type="checkbox"/> DEFLOAT <input type="checkbox"/> DIRECT | INITIAL GAIN: <b>30.24</b> db  | TRIP SENS.: <b>48.542</b> db  | POLARITY CONVENTION: <input type="checkbox"/> NEGATIVE <input type="checkbox"/> POSITIVE | PRESSURE INCREASE ON GEOPHONE: <input type="checkbox"/> NEGATIVE <input type="checkbox"/> POSITIVE | NUMBERS ON MAG. TAPE: <input type="checkbox"/> DOWNBREAK <input type="checkbox"/> UPBREAK | ON DISPLAY   |   |                 |
| CFS I   | TYPE STACK:   | GATE LENGTH:   | RECORD REJECTION:   | NOISE REDUCTION:   | NOISE THRESHOLD:   | CORR. SCALING:  | R.C.U. NORM/ALT SW.  |   |                 |
| SOURCE  | TYPE: <input checked="" type="checkbox"/> DYNAMITE<br><input type="checkbox"/> VIBROSEIS<br><input type="checkbox"/> OTHER  | PATTERN: <b>Inline 1 Hole</b>  | NO. OF POSITIONS:   | INLINE SPACING:  | LATERAL SPACING:   | STAGGER:  | LENGTH:  | WIDTH:  | LATERAL OFFSET: |
|   | CHG/HOLE: <b>110 #</b>  | HOLE DEPTH: <b>105</b>   | SWEEP POSITION:   | SWEEP START:   | SWEEP END:   | SWEEP LENGTH:   | SWEEP TAPE:  | PHASE COMP.   |                 |
| RECEIVER  | TYPE: <b>D 20-10</b>  | PATTERN: <b>Inline</b>   | NO. OF ELEMENTS: <b>18</b>  | INCLINE SPACING:   | LENGTH: <b>12</b>  | LATERAL SPACING:  | WIDTH:   | LATERAL OFFSET:   |                 |
|   | CONNECTION: <b>Series-Parallel</b>  | RESISTANCE: <b>220</b> ohms  | STAGGER:  | LENGTH: <b>220'</b>  | WIDTH:   | LATERAL OFFSET:   |  |   |                 |
| SPREAD  | NO. OF GROUPS: <b>96</b>  | GROUP INTERVAL: <b>220'</b>  | SHOTPOINT INTERVAL: <b>1760'</b>  | FOLD:  | DIRECTION OF PROGRESSION: <b>NORTH</b>   | LEADING GROUP: <b>1</b>   |  |   |                 |
|   | OFFSET GROUP 1: <b>10,450</b>   | OFFSET GROUP <b>48</b> : <b>110'</b>   | OFFSET GROUP <b>49</b> : <b>110'</b>  | OFFSET GROUP <b>48/96</b> : <b>10,450'</b>   | LEADING GROUP:   |   |  |   |                 |

DIAGRAMS/MISC. INFORMATION: TRAVEL TIME: 2:30  
TOTAL TIME: 19:30

| SHOTPOINT | TR. 1 to 96 |         | TR. 10 to |      | SHOT |       |     |        | SPREAD |            |  | REMARKS: RECORD QUALITY (REFLECTIONS) IS NOT AS GOOD AS YESTERDAY | CORR. STACK |      |     |
|-----------|-------------|---------|-----------|------|------|-------|-----|--------|--------|------------|--|---|-------------|------|-----|
|           | REEL NO.    | REC.    | REEL NO.  | REC. | SIZE | DEPTH | NO. | OFFSET | DIR.   | CDP SWITCH | LINE GROUPS  |   | HT.         | REC. | HT. |
| 08:48     | 26          | 7511450 | 233       | 2223 | 110  | 105   | 49  | 20-1   | 31-8   | 23         | LEAKAGE < 1 MEG-OHM                                  |   |             |      |     |
|           | 25          |         | 234       |      | 110  | 105   | 41  | 19-1   | 30-8   |            |  |   |             |      |     |
|           | 24          |         | 235       |      | 110  | 105   | 33  | 18-1   | 29-8   |            |  |   |             |      |     |
|           | 23          |         | 236       |      | 110  | 105   | 25  | 17-1   | 28-8   |            |  |   |             |      |     |
|           | 22          |         | 237       |      | 110  | 105   | 17  | 16-1   | 27-8   |            | 4, 9, 11 & 12 NOISY - CABLE BLAST TRIP - NO COVERAGE |   |             |      |     |
| 10:00     | 21          |         | 238       |      | 110  | 105   | 9   | 15-1   | 26-8   |            |  |   |             |      |     |
| 10:45     | 20          |         | 239       |      | 110  | 105   | 49  | 14-1   | 25-8   | 17         |  |   |             |      |     |
|           | 19          |         | 240       |      | 110  | 105   | 41  | 13-1   | 24-8   |            |  |   |             |      |     |
|           | 18          |         | 241       |      | 110  | 105   | 33  | 12-1   | 23-8   |            |  |   |             |      |     |
|           | 17          |         | 242       |      | 110  | 105   | 25  | 11-1   | 22-8   |            | TRACE 77 DEAD OR ON METER                            |   |             |      |     |
|           | 16          |         | 243       |      | 110  | 105   | 17  | 10-1   | 21-8   |            | CABLE BLAST  |   |             |      |     |
| 12:41     | 15          |         | 245       |      | 110  | 105   | 9   | 9-1    | 20-8   |            | 244 MISFIRE - KILL                                   |   |             |      |     |
| 13:12     | 14          |         | 246       |      | 110  | 105   | 49  | 8-1    | 19-8   | 11         |  |   |             |      |     |
|           | 13          |         | 248       |      | 110  | 105   | 41  | 7-1    | 18-8   |            | 247 MISFIRE - KILL                                   |   |             |      |     |
|           | 12          |         | 250       |      | 110  | 105   | 33  | 6-1    | 17-8   |            | 249 MISFIRE - KILL                                   |   |             |      |     |
|           | 11          |         | 251       |      | 110  | 105   | 25  | 5-1    | 16-8   |            |  |   |             |      |     |
|           | 10          |         | 252       |      | 110  | 105   | 17  | 4-1    | 15-8   |            | WEAK   |   |             |      |     |
| 305       | 9           |         | 253       |      | 110  | 105   | 9   | 3-1    | 14-8   |            |  |   |             |      |     |
| 16:05     | 8           | 7511459 | 255       |      | 110  | 105   | 49  | 2-1    | 13-1   | 5          | 254 ED FILE  |   |             |      |     |
|           | 7           |         | 258       |      | 110  | 105   | 41  | 1-1    | 12-1   |            | 256 & 257 MISFIRES KILL                              |   |             |      |     |

