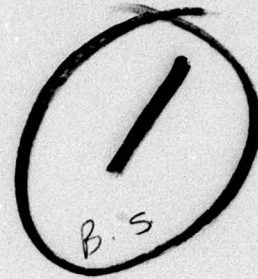


SDCS-ER-76-115



**SPECIAL DATA COLLECTION SYSTEM EVENT REPORT**  
**Eastern Kazakh, SSR, 28 August 1976**

**M. S. Dawkins & M. D. Gillispie**

**Alexandria Laboratories**

**Teledyne Geotech, 314 Montgomery Street, Alexandria, Virginia 22314**

**November 1977**

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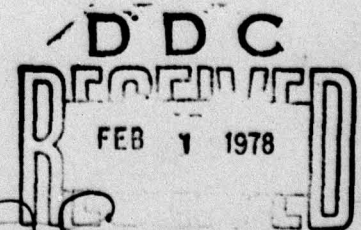
**The Defense Advanced Research Projects Agency (DARPA)**

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------|
| 1. REPORT NUMBER<br>SDCS-ER-76-115                                                                                                                                          | 2. GOVT ACCESSION NO.                                                    | 3. RECIPIENT'S CATALOG NUMBER               |
| 4. TITLE (and Subtitle)<br>SPECIAL DATA COLLECTION SYSTEM (SDCS) Event Report<br>Eastern Kazakh, SSR, 28 August 1976.                                                       | 5. TYPE OF REPORT & PERIOD COVERED<br>Technical rept.                    |                                             |
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| 14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)<br>VELA Seismological Center<br>312 Montgomery Street<br>Alexandria, Virginia 22314             | 13. NUMBER OF PAGES<br>10                                                |                                             |
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| 20. ABSTRACT (Continue on reverse side if necessary and identify by block number)                                                                                           |                                                                          |                                             |

405 601

53

# STATION DESCRIPTION

| SITE<br>CODE | LOCATION             | SITE COORDINATES<br>DEG MN SECS | ELEVATION<br>METERS | INSTRUMENTATION |                    |
|--------------|----------------------|---------------------------------|---------------------|-----------------|--------------------|
|              |                      |                                 |                     | SHORT-PERIOD    | LONG-PERIOD        |
| HN-ME        | Houlton,<br>Maine    | 46 09 43.0 N<br>067 59 09.0 W   | 213                 | KS36000         | KS36000            |
| RK-ON        | Red Lake,<br>Ontario | 50 50 20.0 N<br>093 40 20.0 W   | 366                 | 18300           | SL210 V<br>SL220 H |
| 082NV        | Nevada Test Site     | 37 13 31.0 N<br>116 03 28.0 W   |                     | 18300           | N/A                |
| NT-NV        | Nevada Test Site     | 31 16 33.0 N<br>116 25 06.0 W   |                     | 18300           | N/A                |
| NT2NV        | Nevada Test Site     | 37 15 16.0 N<br>116 18 13.0 W   |                     | 18300           | N/A                |
| LASA         | Billings,<br>Montana | 46 41 19.0 N<br>106 13 20.0 W   | 744                 | HS10            | 7505A V<br>8700C H |
| NORSAR       | Kjeller,<br>Norway   | 60 49 25.4 N<br>010 49 56.5 E   | 379                 | HS10            | 7505A V<br>8700C H |

-- HYPO --

28AUG INPUT FOR EVENT 28 AUG 76  
02:57:00.0 50.000N 79.000E OKM.

| STA.  | ARRIVAL    | RESIDUALS |      | DIST. | AZ.   |
|-------|------------|-----------|------|-------|-------|
|       |            | CALC      | RFST |       |       |
| NAC   | 03 04 20.8 | -0.6      | -C.3 | 37.8  | 312.6 |
| OB2NV | 03 10 11.2 | -0.2      | C.0  | 91.4  | 11.7  |
| LAO   | 03 09 29.6 | 0.3       | 0.6  | 82.8  | 3.4   |
| RK-ON | 03 09 05.7 | -0.6      | -C.4 | 78.5  | 355.1 |
| HN-ME | 03 09 10.6 | C.5       | C.7  | 79.2  | 337.2 |
| NT-NV | 03 10 10.2 | -0.8      | -0.6 | 91.3  | 12.0  |

67 HERRIN TRAVEL TIME TABLES

| ORIGIN                     | LAT.    | LONG.   | DEPTH (KM) | SDV | IT | STA |
|----------------------------|---------|---------|------------|-----|----|-----|
| NO CONVERGENCE ON CALC RUN |         |         |            |     |    |     |
| 02:56:15.1                 | 50.239N | 79.685E | -337. CALC | 0.6 | 16 | 6   |
| 02:57:04.1                 | 50.618N | 78.700E | 0. REST    | 0.5 | 4  | 6   |

CALC

|   |    |   |
|---|----|---|
| 2 | .  | 3 |
| 1 | .  | 0 |
| 0 | 0. | 0 |
| 0 | .  | 0 |
| 0 | 0. | 0 |
| 0 | .  | 0 |
| 0 | 0. | 0 |

REST

|   |    |   |
|---|----|---|
| 2 | .  | 3 |
| 1 | .  | 0 |
| 0 | 0. | 0 |
| 0 | .  | 0 |
| 0 | 0. | 0 |
| 0 | .  | 0 |
| 0 | 0. | 0 |

CHI2 COVERAGE ELLIPSE; 95 PER CENT CONF..LEVEL, SDV= 0.91  
MAJOR 359.2KM. MINOR 40.0KM. AZ= 8 AREA= 45083 SQ.KM. REST

|                                 |                                                   |
|---------------------------------|---------------------------------------------------|
| ACCESSION for                   |                                                   |
| NTIS                            | White Section <input checked="" type="checkbox"/> |
| DDC                             | Buff Section <input type="checkbox"/>             |
| UNANNOUNCED                     | <input type="checkbox"/>                          |
| JUSTIFICATION                   |                                                   |
| BY                              |                                                   |
| DISTRIBUTION/AVAILABILITY CODES |                                                   |
| Dist.                           | AVAIL. and/or SPECIAL                             |
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# DATA SUMMARY

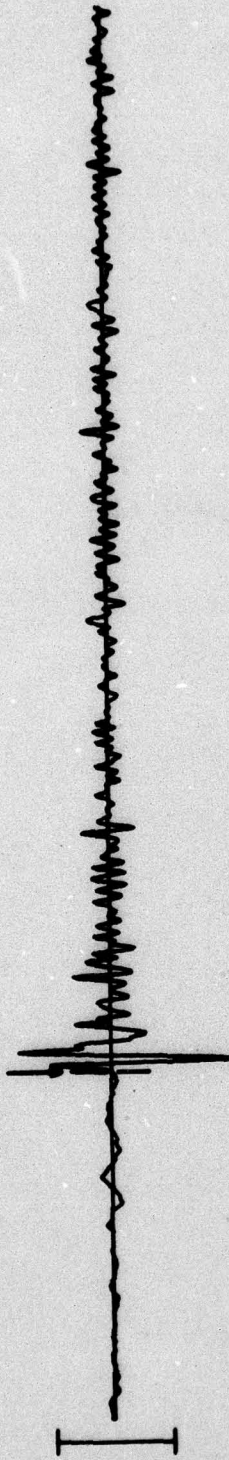
28AUG INPUT FOR EVENT 28 AUG 76  
02:57:00.C 50.000N 79.000E 0KM.

| STA.  | PHASE | ARRIVAL |         | INST | PER | A/T   | MAGNITUDE |    | DIP | DIST |
|-------|-------|---------|---------|------|-----|-------|-----------|----|-----|------|
|       |       | TIME    |         |      |     |       | MB        | MS |     |      |
| NAO   | EP    | 03      | 04 20.8 | AB   | 0.7 | 492.  | 5.89      |    |     | 37.8 |
| RK-ON | EP    | 03      | 09 05.7 | SPZ  | 0.6 | 168.  | 5.77      |    |     | 78.5 |
| HN-ME | EP    | 03      | 09 10.6 | SPZ  | 1.0 | 304.  | 5.96      |    |     | 79.2 |
| LAO   | EP    | 03      | 09 29.6 | SAB  | 9.9 | 9999. |           |    |     |      |
| NT-NV | EP    | 03      | 10 10.2 | SPZ  | 0.8 | 72.   | 5.66      |    |     | 91.3 |
| OB2NV | EP    | 03      | 10 11.2 | SPZ  | 0.9 | 55.   | 5.54      |    |     | 91.4 |

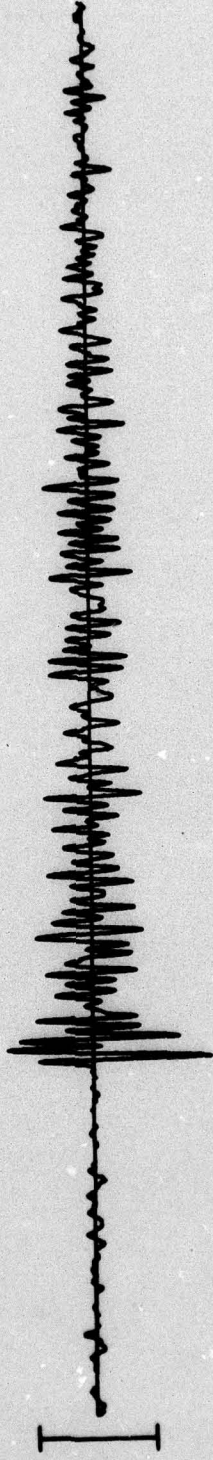
| ORIGIN     | LAT.    | LONG.   | DEPTH (KM) | MAG  | SDV  | STA |
|------------|---------|---------|------------|------|------|-----|
| 02:57:04.1 | 50.618N | 78.700E | 0. REST    | 5.76 | 0.17 | 5   |

RK-ON 28 AUG 76  
03:09:05.7

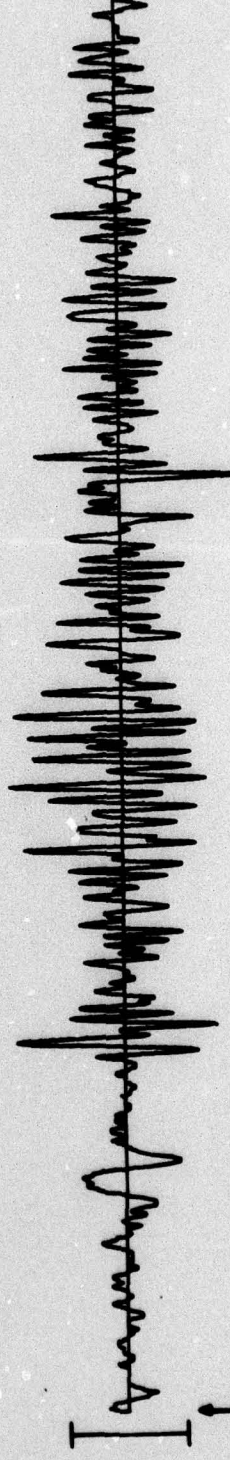
SPZ  
138.00 MU



SPR  
56.00 MU



SPT  
24.00 MU



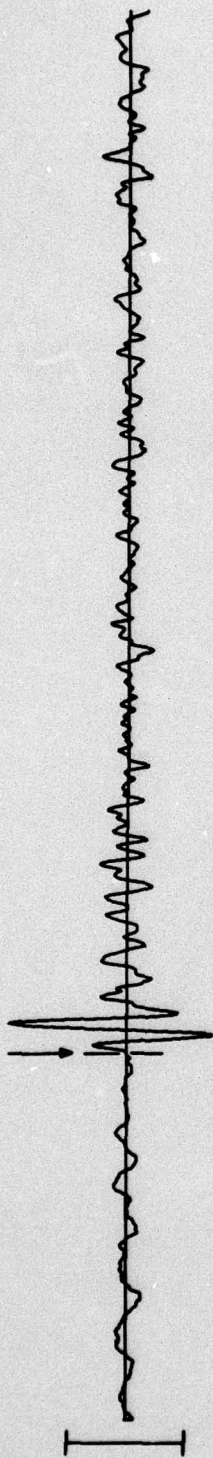
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10 SEC.

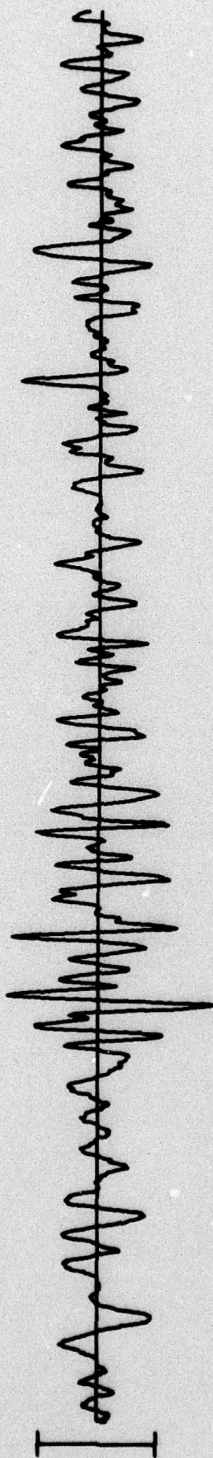
HN-ME 28 AUG 76

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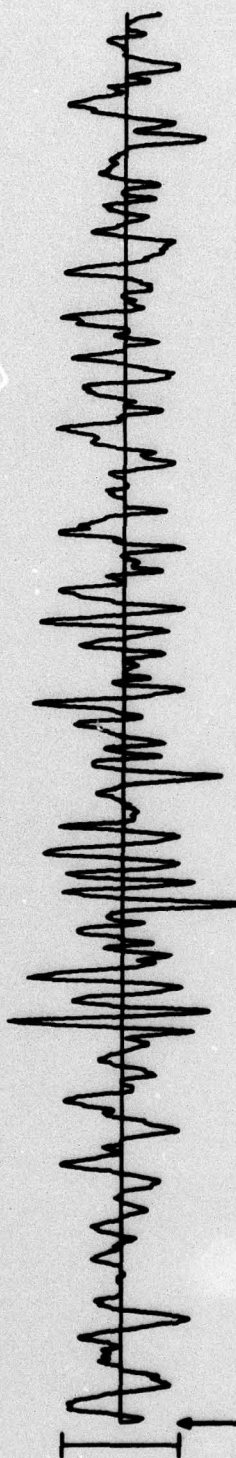
SPZ  
178.00 MU



SPR  
49.00 MU

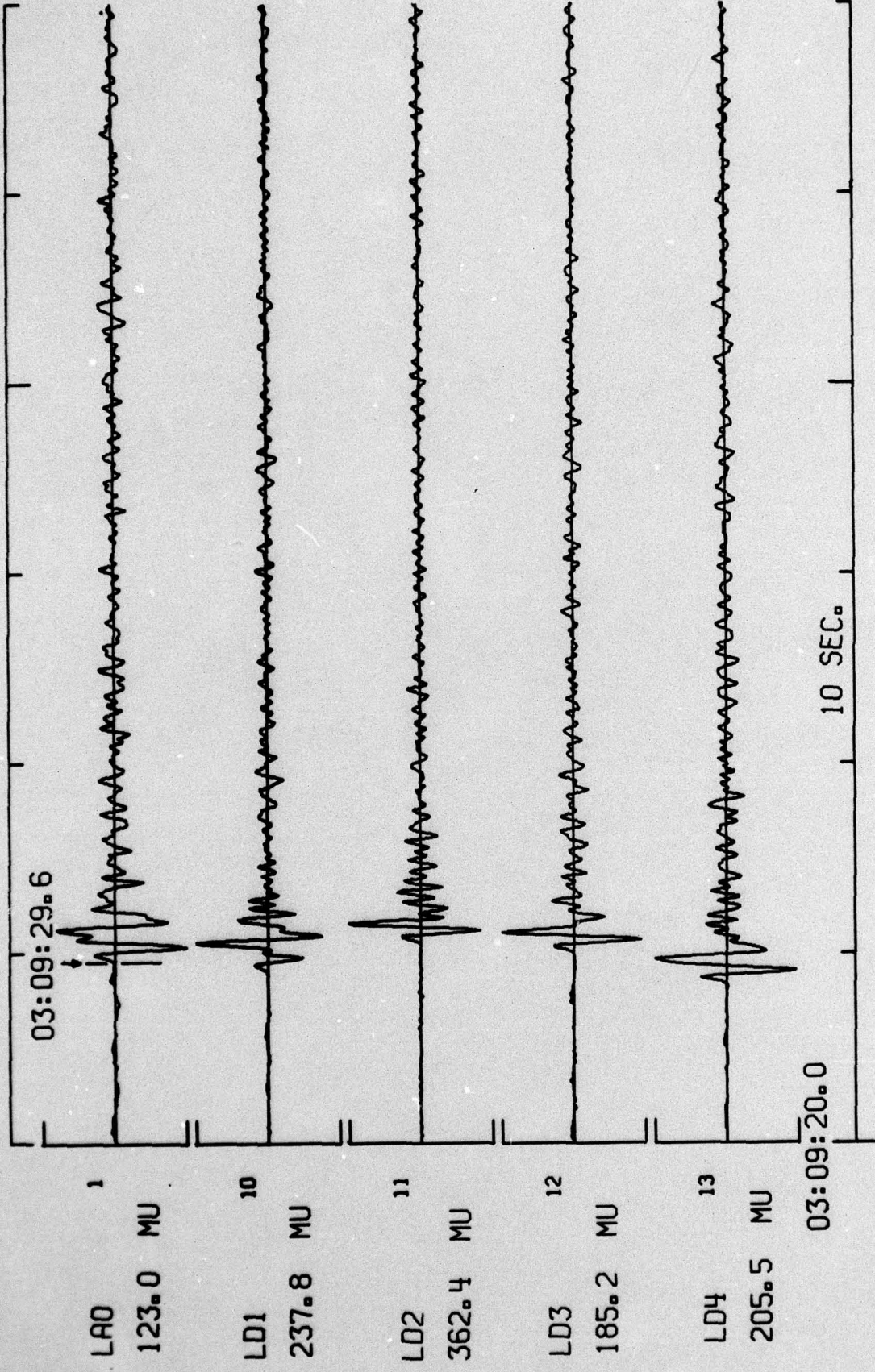


SPT  
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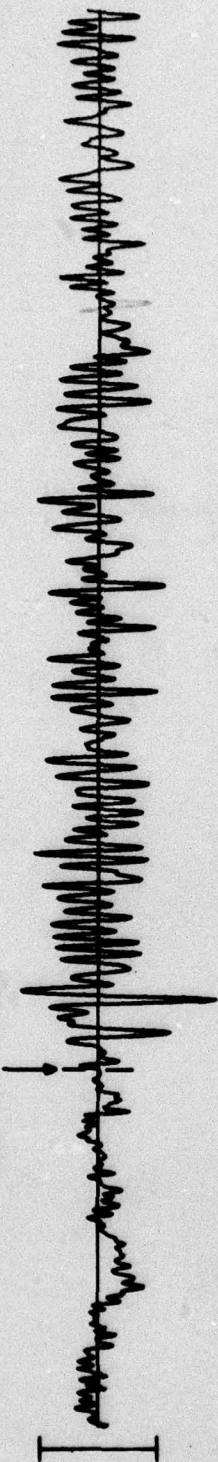


LASA 28 AUG 76

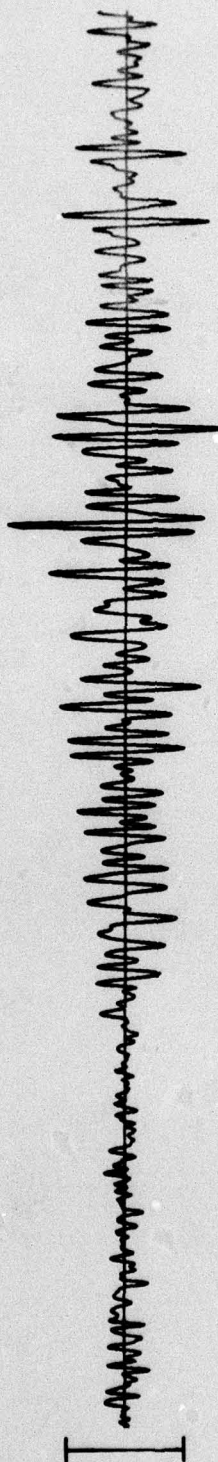
NT-NV 28 AUG 76

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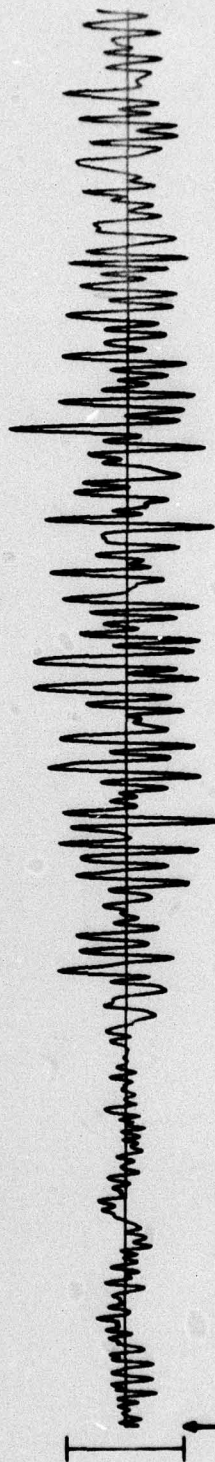
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SPR  
44.15 MU



SPT  
32.70 MU



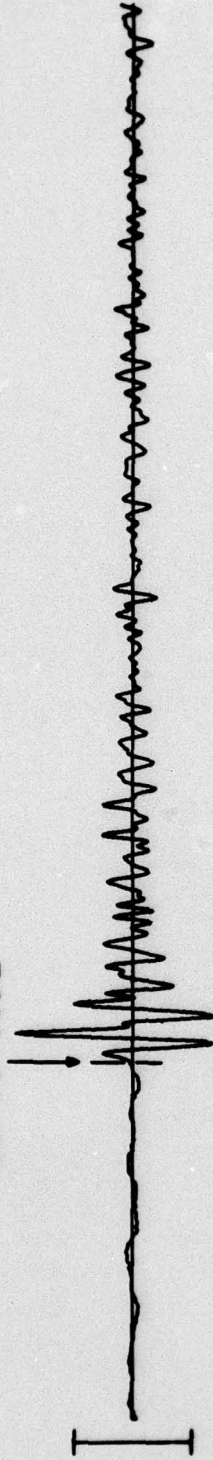
03:09:55.0

10 SEC.

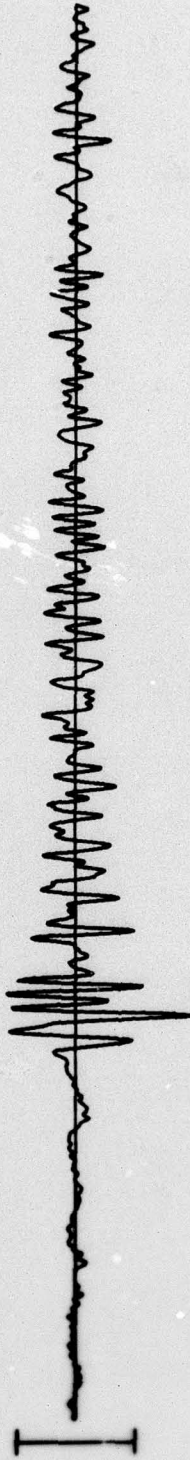
OB2NV 28 AUG 76

03:10:11.2

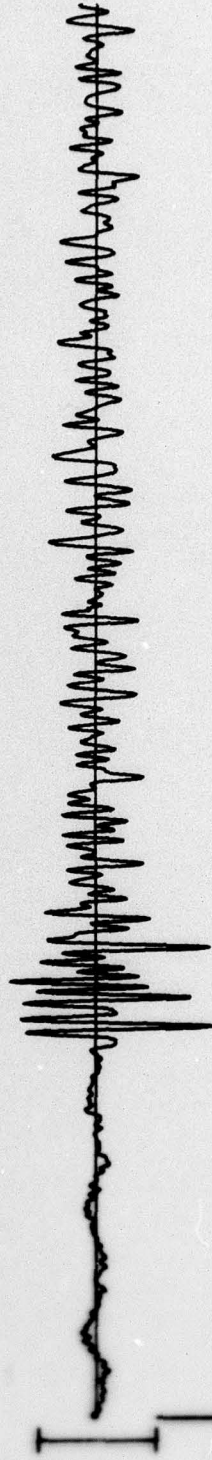
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36.47 MU



SPR  
13.73 MU



SPT  
9.29 MU



03:09:56.0

10 SEC.