



# United States Department of the Interior



MINERALS MANAGEMENT SERVICE  
Alaska Outer Continental Shelf Region  
3801 Centerpoint Drive, Suite 500  
Anchorage, Alaska 99503-5820

## **DATA ANNOUNCEMENT** **Minerals Management Service**

### **Outer Continental Shelf Permits 77-25**

**Contract 14-08-0001-17648**

**Contract 14-12-0004-60105**

**Contract 14-35-0002-40253**

**Contract 1435-02-96-CT-40285**

**Purchase Order 1435-02-96-PO-25220**

### **MULTI-CHANNEL SEISMIC REFLECTION DATA** **BEAUFORT SEA - ALASKA**

From July 25, 1977 until October 10, 1977, Western Geophysical Co. acquired 3,499 miles of multi-channel seismic reflection data. These data were collected under permit 77-25 issued by the Minerals Management Service (MMS). The MMS acquired the entire data set on August 7, 1978, under Contract 14-08-0001-17648. The following year the MMS purchased reprocessing of selective lines (402 miles) under Contract 14-12-0004-60105. Under the conditions of the contract and subsequent regulations, the data became available to the public on August 7, 2003. We are soliciting interest by the public in receiving copies of these data. If there is a positive response to this announcement, we will make the data available to the Marine Geology and Geophysics Division of the National Geophysical Data Center (NGDC), Boulder, Colorado. They will be responsible for making copies and marketing these data.

Western Geophysical Co. used three vessels in this survey, the M/V Western Geo IV, the M/V Western Geo V, and the M/V Arctic Sun. The survey employed two energy sources. In the shallow water an air gun array was used as a sound source. The array was 4 – 150 cu. in. air guns towed at a 7 foot depth and operating at a pressure less than 5000 psi. The guns were fired on a 229 foot interval. In deeper water the survey used 4 Aquapulse™ guns towed at a depth of 30 feet. The Aquapulse™ uses liquid oxygen and propane which is detonated by a spark to create the sound. They were fired on a 82 foot interval.

The geophone cable used in the shallow water survey was a bottom drag cable with 24 recording groups and a total length of 5,267 feet. The data was recorded at a 2 ms. sample rate with a record length of 6 seconds. In the deeper water a streamer cable was used with 48 recording groups and a total cable length of 7,708 feet. The data was recorded at a 2 ms. sample rate with a record length of 6 seconds. The cable was towed at a depth of 30 feet.

The shallow water data were processed at a 4 ms. sample rate and a 1,200% stack. The deep water data was sampled at a 4ms. rate and was stacked at 2,400%. The specific data that will be released are as follows.

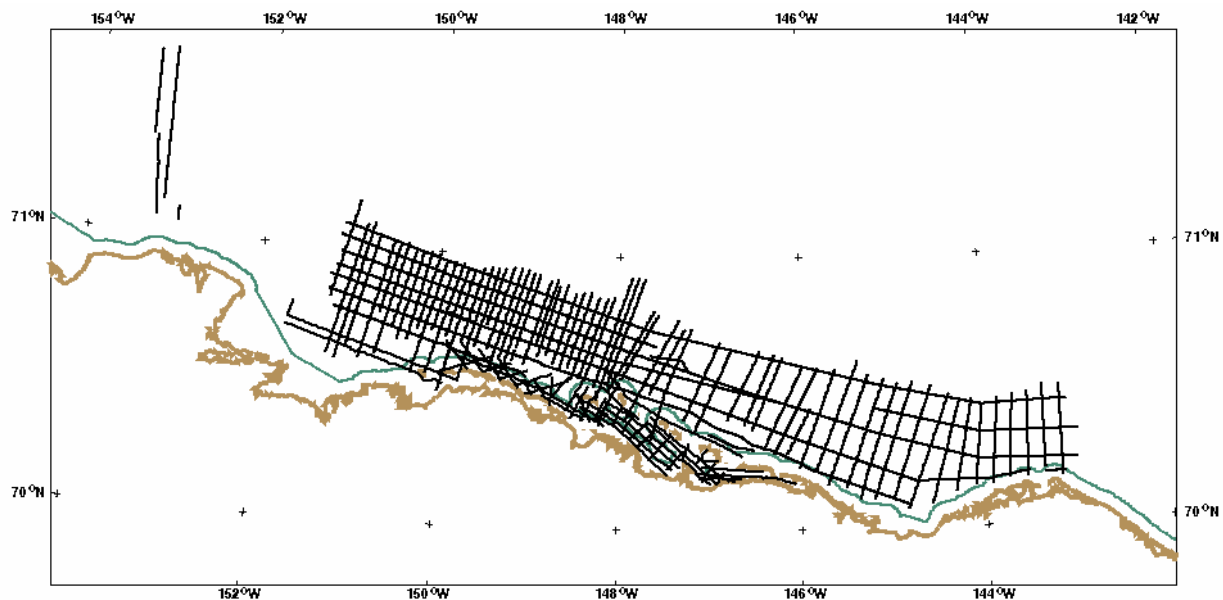
## DATA AVAILABLE

The seismic reflection profiles in stack and migrated format are displayed with automatic gain control applied. The sections can be supplied as digital (SEG-Y), plastic sepia, and/or blackline prints.

Velocity plots have been scanned and recorded on CD-ROM. Digital stacking velocities are included on the CD-ROM set.

A navigation map is available as a reproducible or paper copy.  
Digital navigation data are available on CD\_ROM

### Data Coverage Permit 77-25



For further information or expressions of interest in acquiring the data please contact:

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Additional data release announcements may be found at <http://www.mms.gov/alaska/re/relgg/INDEX.htm>