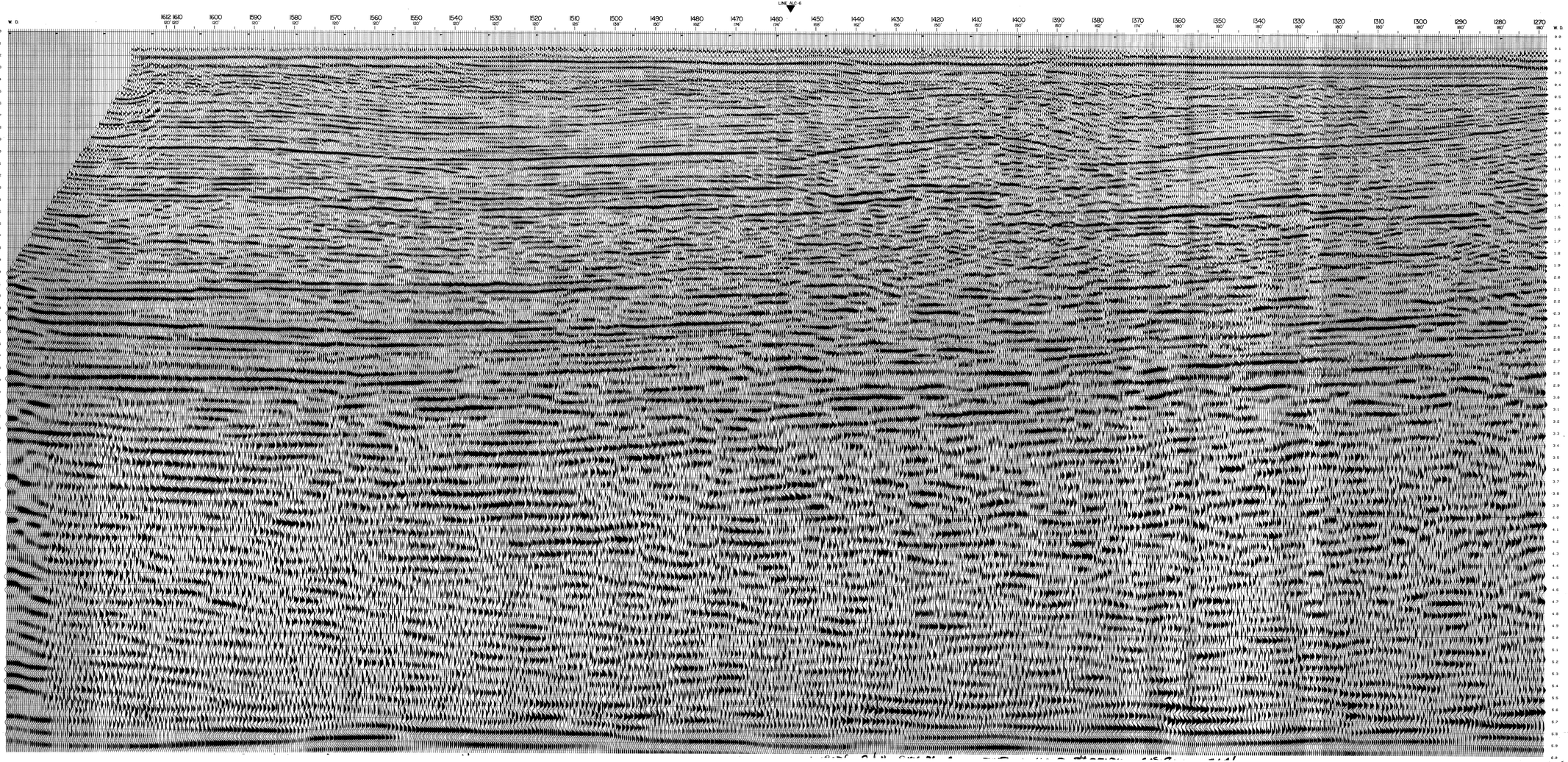


MIGRATION: USING FINITE DIFFERENCE METHOD

REPROCESSED BY WESTERN GEOPHYSICAL COMPANY

▼ INTERSECTIONS

☒ VELOCITY ANALYSIS S. SOUTHEAST

LINE No. ALC-7

OXY PETROLEUM INC.
WESTERN GEOPHYSICAL CO.

LOWER COOK INLET, ALASKA, UNITED STATES

AREA LOWER COOK INLET LINE No. ALC-7 SHOTPOINTS 1612 - 1270

Shot By WESTERN GEOPHYSICAL CO. Party No. 89 Date JULY 4, 1975

Processed By WESTERN GEO. CO. Party No. HDC Date NOV. 22, 1976

RECORDING DATA

INSTRUMENTATION

Multiplicity Recorded 3600 Boat Direction S. SOUTHEAST

Recording Instruments DDS-888 Record Length 6 SEC. Sample Rate 2 ms.

Recording Filters 6-OUT Type Gain 36 BIT FIXED PRESSURE FLOATING POINT No. of Channels 98

Field Tape Nos. F43485-43499, 43500-50522, 50524-50527

ENERGY SOURCE

Type AQUAPULSE Firing Interval 12-14 SECONDS

Array SIX GUNS Depth 25 FEET

Energy OXYGEN, AIR, PROPANE Pressure 60-60-18

THE AQUAPULSE SYSTEM

CABLE

Length 7810 FEET Group Interval 110 FEET

No. of Channels 72 Depth 45-50 FEET

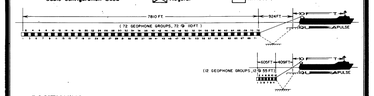
Geophones/Group 20 TAPERED ARRAY

Offset from source to near trace number 72: 924 FEET

Mini Spread 409-1014 FEET

CABLE DIAGRAMS

Cable Configuration Used ☒ Regular ☐ Minicable



POSITIONING

Type RPS - RAYDIST

PROCESSING

Datum SEA LEVEL Datum Velocity NONE

CDP Stack 3600 Sample Rate 4 ms. Time Correction (see DISPLAY)

1 Edit

NA Datum Statics

4 Gain Recovery

2 Spherical Divergence

NA Vertical Summation to one

NA Correlation

2 Convolution

Type MINIMUM PHASE INVERSE FILTER

Time Gates 3 EQUAL ZONES / TRACE

Operator Length 204 ms. Predictive Distance 24 ms.

NA Auto Statics

Type

3 Velocity Spectra

Type

4 NMO

4 CDP Stack

6 Time Variant Filter

TIME ZONE	L.C. (CPS)	H.C.	TIME ZONE	L.C. (CPS)	H.C.
0.0 - 0.5 SEC.	10	45	2.1 - 2.8 SEC.	5	20
0.5 - 1.2 SEC.	8	40	2.8 - 3.4 SEC.	5	15
1.2 - 2.1 SEC.	5	30	3.4 - 6.0 SEC.	3	12

5 Special Processing

Type MULTI-CHANNEL FILTER, DECONVOLUTION, RADIAL PREDICTIVE FILTER, RMS GA. IN

2 Trace Equalization MIGRATION

DISPLAY

Traces per Inch 12

Inches per Second 5

Black Peak is Negative Positive X

Tapes 550740

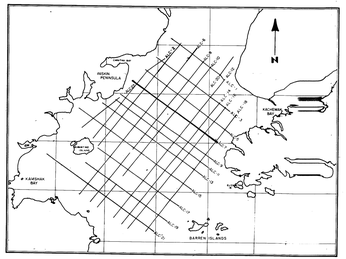
Job Number 18

Gun depth 5 ms.

Cable depth 9 ms.

Total correction 14 ms.

SEISMIC LINE LOCATION MAP



OXY

Litton WESTERN GEOPHYSICAL