

# **Preliminary Report on CERR Seismic Survey at Shoal Point, Western Newfoundland**

## **INTRODUCTION:**

Memorial University of Newfoundland's **Centre for Earth Resources Research (CERR)**, in partnership with

**GeoScott Exploration Consultants Inc** [www.geoscott.nf.ca](http://www.geoscott.nf.ca),

**Shearwater Geophysical Corporation** [www.shearwatergeophysical.com](http://www.shearwatergeophysical.com)

**Ian Atkinson, P.Geo**, a private consultant

acquired, processed and interpreted a 3D transition zone seismic program in the Shoal Point area of Western Newfoundland (Port au Port Peninsula). This program was conducted in the late fall of 2000 to investigate the petroleum geology and play potential of the area.

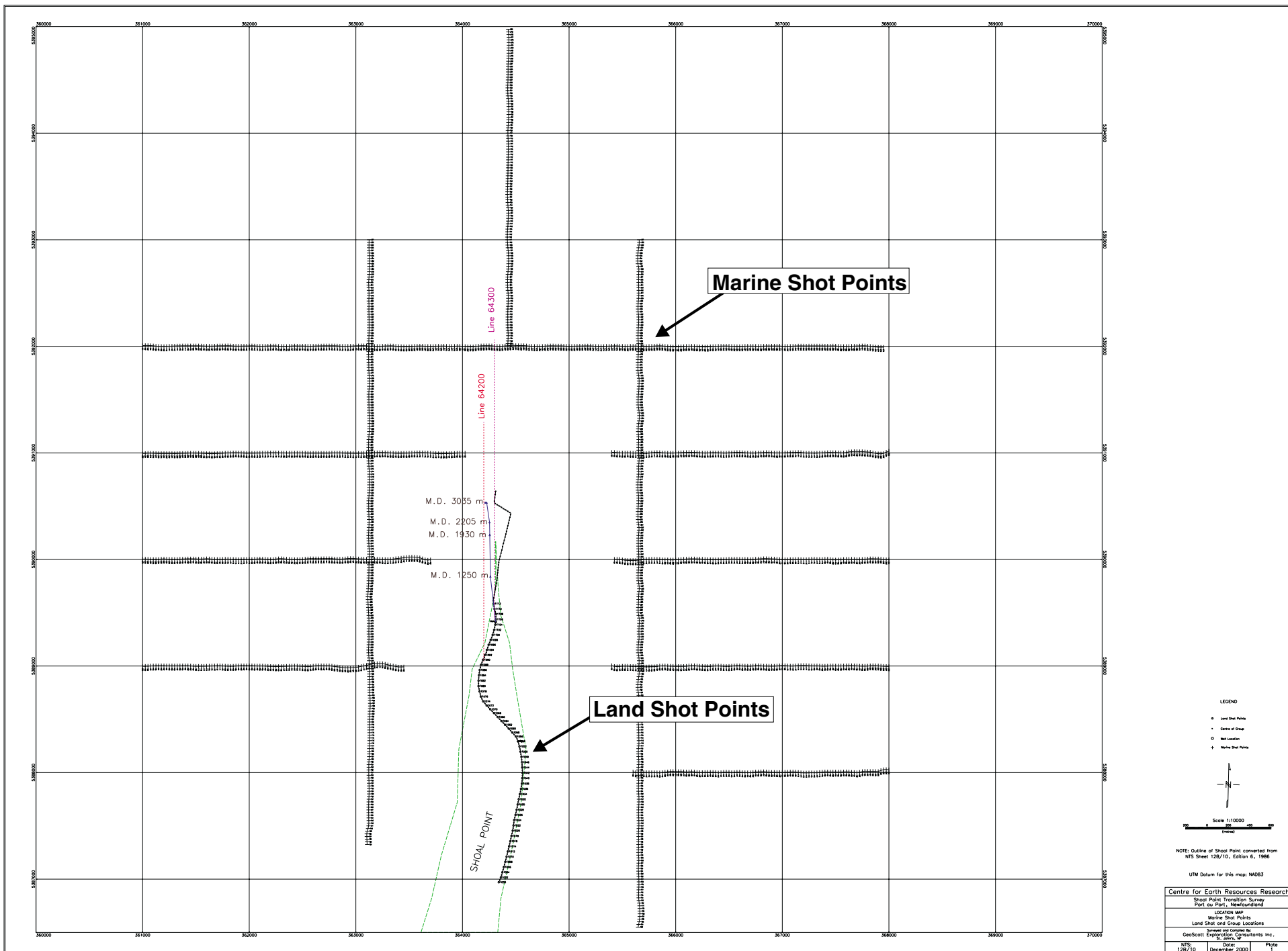
An offshore land sale parcel (Parcel #12: Call for Bids NF01-1) overlies the study area. Bids close on November 20<sup>th</sup>, 2001 at 4:00 PM. For information on how to make a bid go to [www.cnopb.nfnet.com](http://www.cnopb.nfnet.com) or call the C-NOPB at (709) 778-1400.

These preliminary results are presented here at the request of the Department of Mines and Energy so that all interested parties may have access to the new information prior to the closing of the Call for Bids.

## **RESULTS:**

The two displayed seismic lines (64200 and 64300) are migrated time sections that bracket the trajectory of the PanCanadian et al Shoal Point K-39 exploratory well. These seismic sections show reflectors that are characteristic of the Cambro-Ordovician carbonate platform sequence of Western Newfoundland. The sections show pervasive faulting that was initiated in the Taconian and Acadian Orogenies and reactivated by late Carboniferous wrench faulting. The new data suggest a number of possible petroleum traps related to the fault structures.

The *Shoal Point K-39* well-track is plotted on Line 64200 and appears to have entered the hanging wall of a reverse fault within the carbonate platform. This could account for the "missing section" noted at the top of the carbonate platform sequence. The seismic data also indicates an up-thrown fault block to the north of the bottom hole location that may present a viable exploration target.



LEGEND

- Land Shot Points
- Centre of Group
- Well Location
- Marine Shot Points

Scale 1:10000

NOTE: Outline of Shoal Point converted from NTS Sheet 128/10, Edition 6, 1986

UTM Datum for this map: NAD83

Centre for Earth Resources Research		
Shoal Point Transition Survey		
Port au Port, Newfoundland		
LOCATION MAP		
Marine Shot Points		
Land Shot and Group Locations		
Surveyed and Compiled By:		
Geoscience Information Consultants Inc.		
128/10		
Date:	December 2000	Page
		1

# Shoal Point Transition Survey Port au Port, Newfoundland

Shoal Point K-39  
TD Location

M.D. 3035 m  
M.D. 2205 m  
M.D. 1930 m  
M.D. 1250 m

Well

Shoal Point K-39  
Surface Location

Shoal Point

Seismic  
Line 64200

Seismic  
Line 64300

Scale 1:10 000



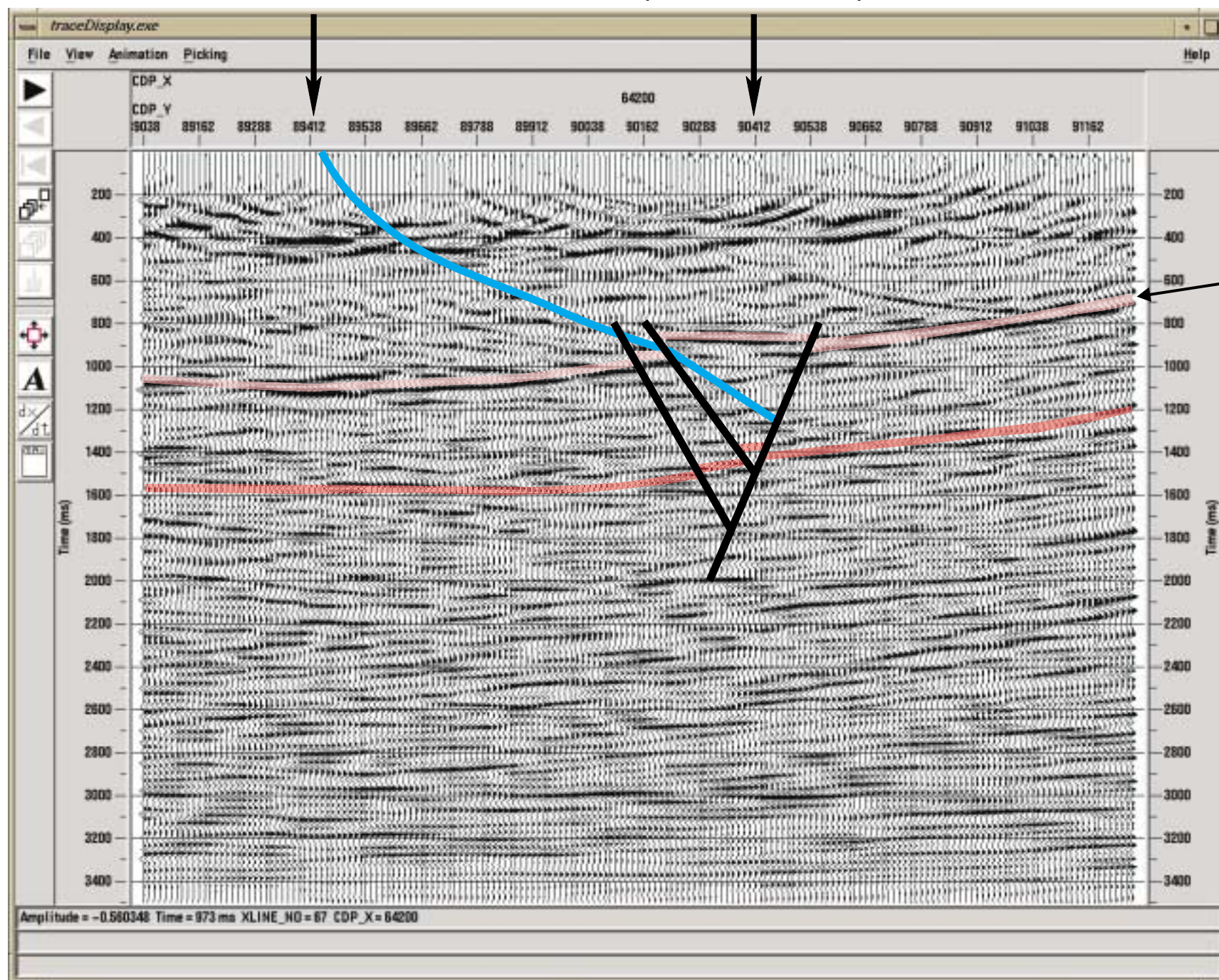
# Line 64200

South

K-39  
Surface Location  
(110 m east of line)

K-39  
Bottom Hole  
(18 m east of line)

North



Top of  
Carbonate  
Platform

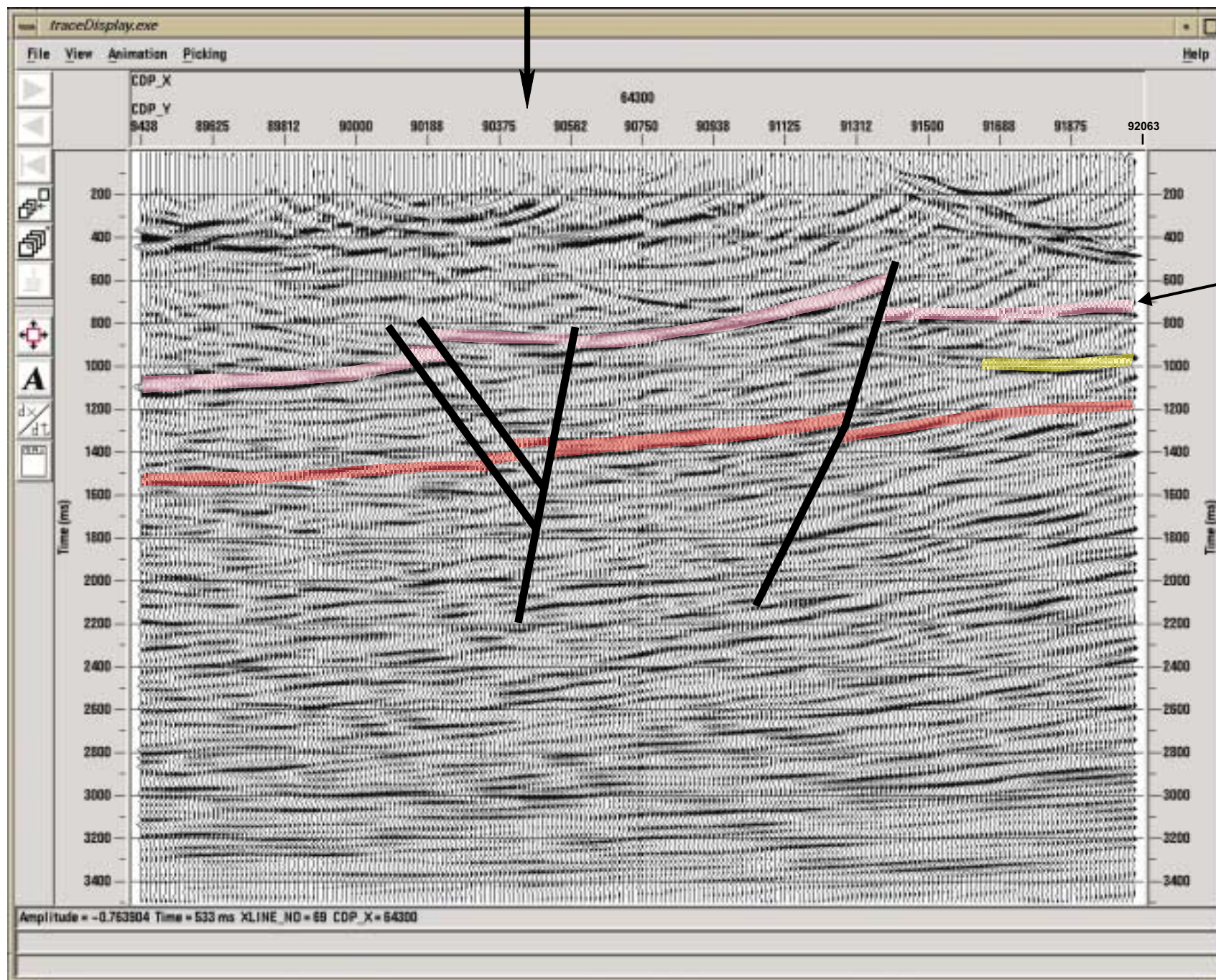


South

K-39  
Bottom Hole  
(82 m west of line)

Line 64300

North



Top of  
Carbonate  
Platform