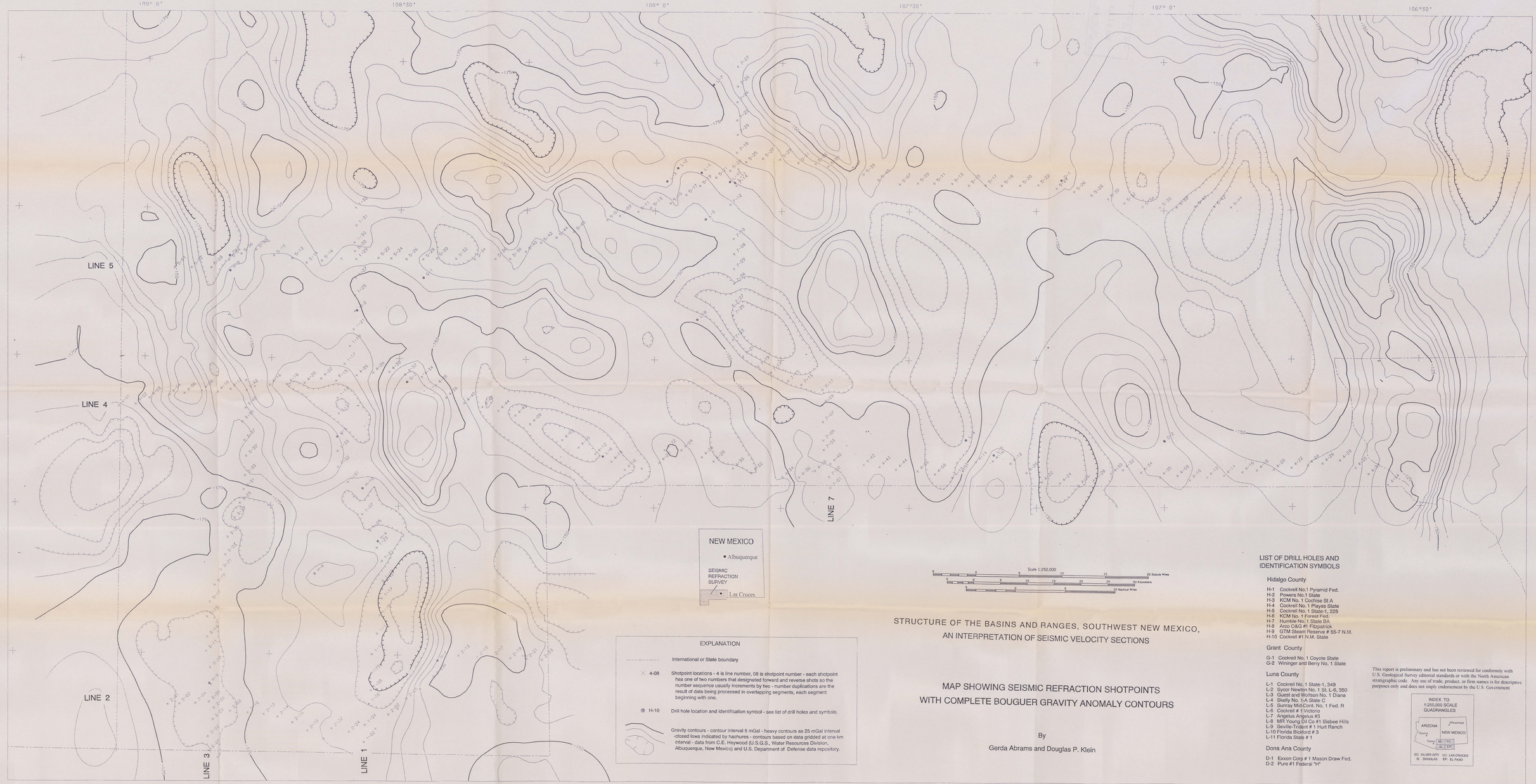
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

OPEN-FILE REPORT 95-506
PLATE I

95-506



NEW MEXICO

• Albuquerque

SEISMIC REFRACTION SURVEY

• Las Cruces

Scale 1:250,000

0 5 10 15 20 Statute Miles
0 5 10 15 20 25 30 Kilometers
0 5 10 Nautical Miles

EXPLANATION

International or State boundary

4-08 Shotpoint locations - 4 is line number, 08 is shotpoint number - each shotpoint has one of two numbers that designated forward and reverse shots so the number sequence usually increments by two - number duplications are the result of data being processed in overlapping segments, each segment beginning with one.

H-10 Drill hole location and identification symbol - see list of drill holes and symbols.

Gravity contours - contour interval 5 mGal - heavy contours as 25 mGal interval -closed lows indicated by hachures - contours based on data gridded at one km interval - data from C.E. Haywood (U.S.G.S., Water Resources Division, Albuquerque, New Mexico) and U.S. Department of Defense data repository.

STRUCTURE OF THE BASINS AND RANGES, SOUTHWEST NEW MEXICO, AN INTERPRETATION OF SEISMIC VELOCITY SECTIONS

MAP SHOWING SEISMIC REFRACTION SHOTPOINTS WITH COMPLETE BOUGUER GRAVITY ANOMALY CONTOURS

By

Gerda Abrams and Douglas P. Klein

LIST OF DRILL HOLES AND IDENTIFICATION SYMBOLS

Hidalgo County

H-1 Cockrell No.1 Pyramid Fed.
H-2 Powers No.1 State
H-3 KCM No. 1 Cochise St A
H-4 Cockrell No. 1 Playas State
H-5 Cockrell No. 1 State-1, 225
H-6 KCM No. 1 Forest Fed.
H-7 Humble No.1 State BA
H-8 Arco C&O #1 Fitzpatrick
H-9 GTM Steam Reserve # 55-7 N.M.
H-10 Cockrell #1 N.M. State

Grant County

G-1 Cockrell No. 1 Coyote State
G-2 Wininger and Berry No. 1 State

Luna County

L-1 Cockrell No. 1 State-1, 349
L-2 Sycor Newton No. 1 St. L-6, 350
L-3 Guest and Wolfson No. 1 Diana
L-4 Skelly No. 1-A State C
L-5 Sunray Mid-Cont. No. 1 Fed. R
L-6 Cockrell # 1 Victorio
L-7 Angelus Angelus #3
L-8 MR Young Oil Co #1 Bisbee Hills
L-9 Seville-Trident # 1 Hurt Ranch
L-10 Florida Bickford # 3
L-11 Florida State # 1

Dona Ana County

D-1 Exxon Corp # 1 Mason Draw Fed.
D-2 Pure #1 Federal "H"

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards or with the North American stratigraphic code. Any use of trade, product, or firm names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

INDEX TO 1:250,000 SCALE QUADRANGLES

Lambert conformal map projection
Central meridan 108ºW; standard parallels 33º N and 45ºN