

COMPANY: Manzano Oil Corporation  
 WELL: Neuhaus Federal 14 #3  
 FIELD: Wildcat  
 COUNTY: Lea STATE: New Mexico

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**Schlumberger**  
 PLATFORM EXPRESS  
 Three Detector Litho-Density  
 Compensated Neutron - GR

660' FSL & 1980' FEL  
 Section 14, Twp. 20-S, Range 35-E  
 Elev.: K.B. 3691 ft  
 G.L. 3676 ft  
 D.F. 3690 ft

Permanent Datum: GROUND LEVEL Elev.: 3676 ft  
 Log Measured From: KELLY BUSHING 15.0 ft above Perm. Datum  
 Drilling Measured From: KELLY BUSHING

API Serial No. 30-025-35153 SECTION 14 TOWNSHIP 20-S RANGE 35-E

**Schlumberger**  
 PLATFORM EXPRESS  
 Azimuthal Laterolog  
 MicroCFL - GR

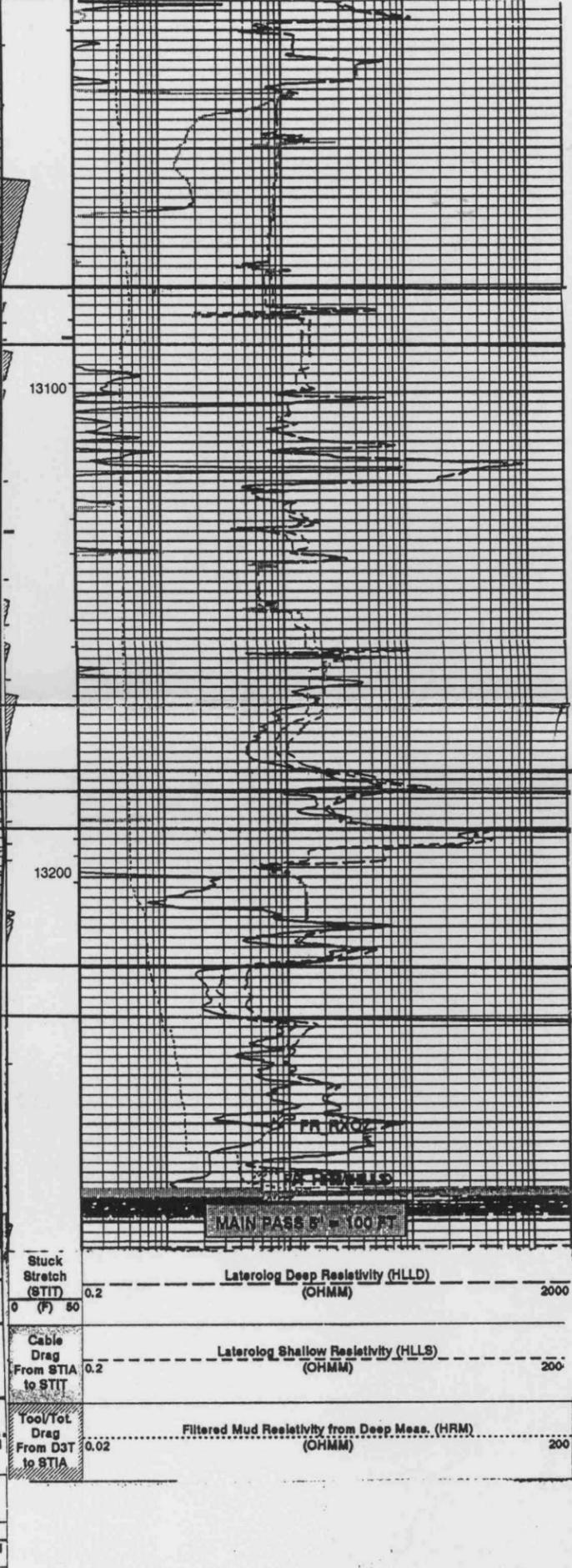
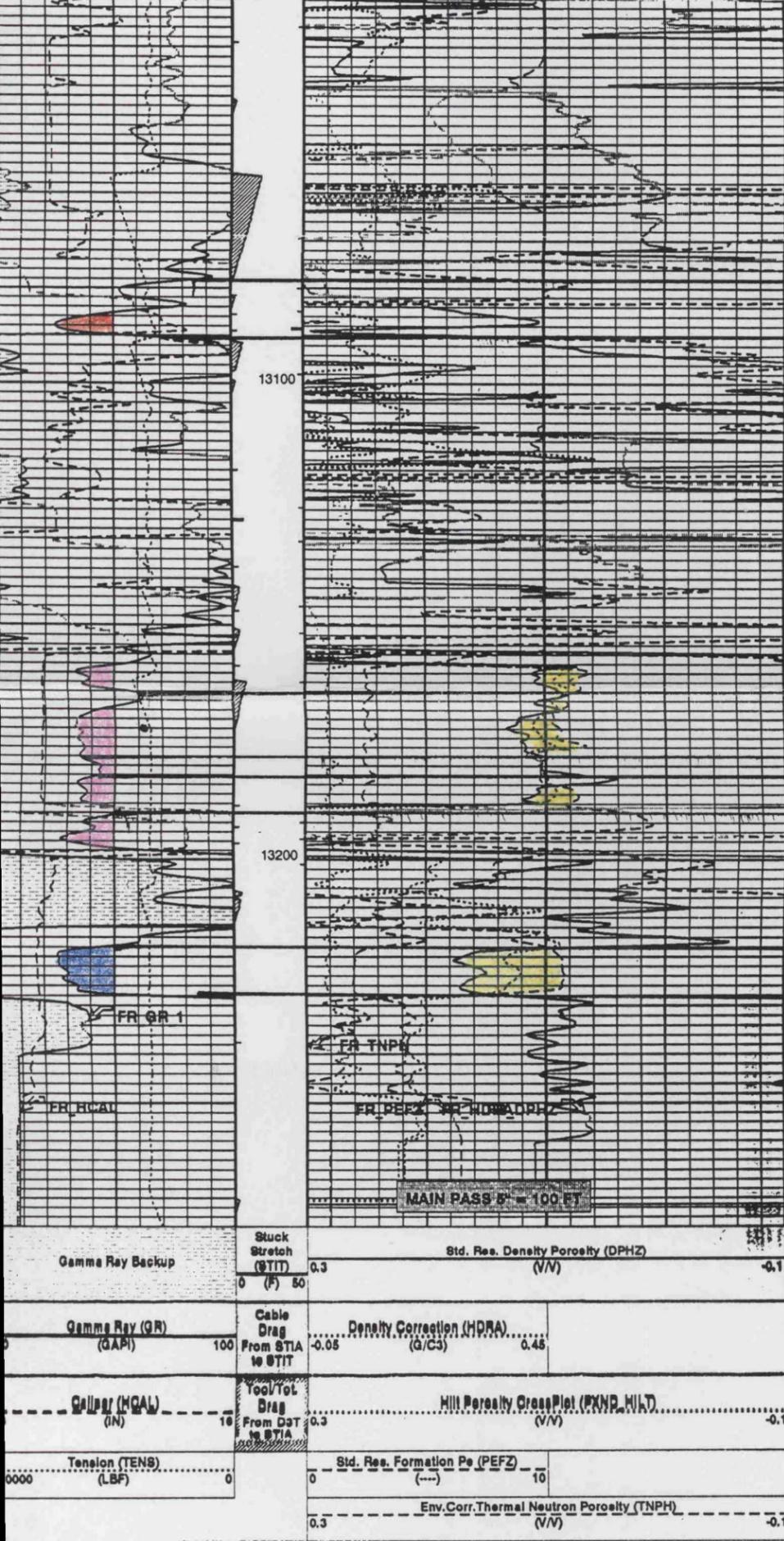
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Logging Date: 20-NOV-2000  
 Run Number: 1  
 Depth Driller: 13430 ft  
 Schlumberger Depth: 13430 ft  
 Bottom Log Interval: 13270 ft  
 Top Log Interval: 4037 ft

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Sw = ?

$$Sw = \frac{\sqrt{0.045/10}}{0.11} = 61\%$$

$$Sw = \frac{\sqrt{0.045/25}}{0.09} = 47\%$$

$$Sw = \frac{\sqrt{0.045/4.5}}{0.13} = 80\%$$

BEFORE THE  
 OIL CONSERVATION DIVISION  
 Case No. 12571 Exhibit No. 15  
 Submitted By:  
 BWB Partners  
 Hearing Date: January 11, 2001