

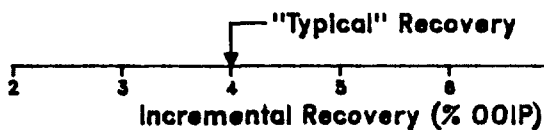
# INCREMENTAL OIL RECOVERY ESTIMATE NORTH HOBBS INFILL PROGRAM

Factors contributing to incremental oil recovery attributable to the North Hobbs infill program are :

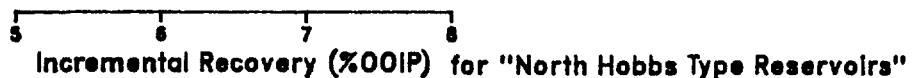
1. *Improved areal sweep (line drive pattern)*
2. *Improved interwell zone continuity*

From a literature survey

:Driscoll,(Amoco) 1974 (1)



:Barber et al,(Exxon) 1982 (2)



:Shell Denver San Andres Waterflood Unit (5% OOIP)

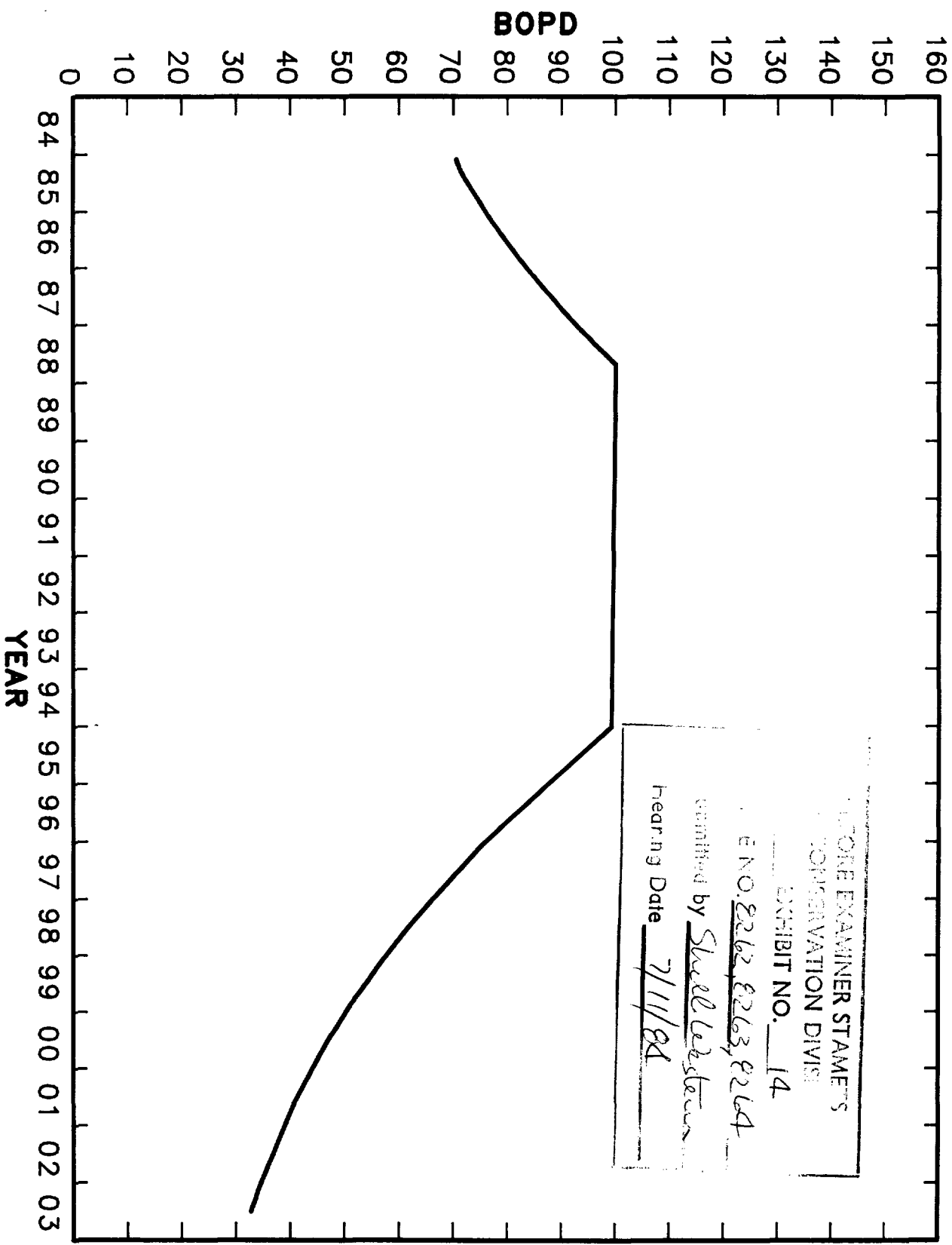
Our best estimate of the incremental oil recovery due to infill drilling at North Hobbs is 4% OOIP in the 40-acre pattern around the infill wells in the San Andres flood zones II and III.

**Reference:**

- (1) DRISCOLL, V.J., "Recovery Optimization Through Infill Drilling— Concepts, Analysis, and Field Results." paper SPE NO4977, October 1974
- (2) BARBER, A.H., GEORGE, C.J., STILES, L.H., THOMPSON, B.B., "Infill Drilling to Increase Reserves — Actual Experience in Nine Fields in Texas, Oklahoma, and, Illinois." paper SPE NO11023, September 1982

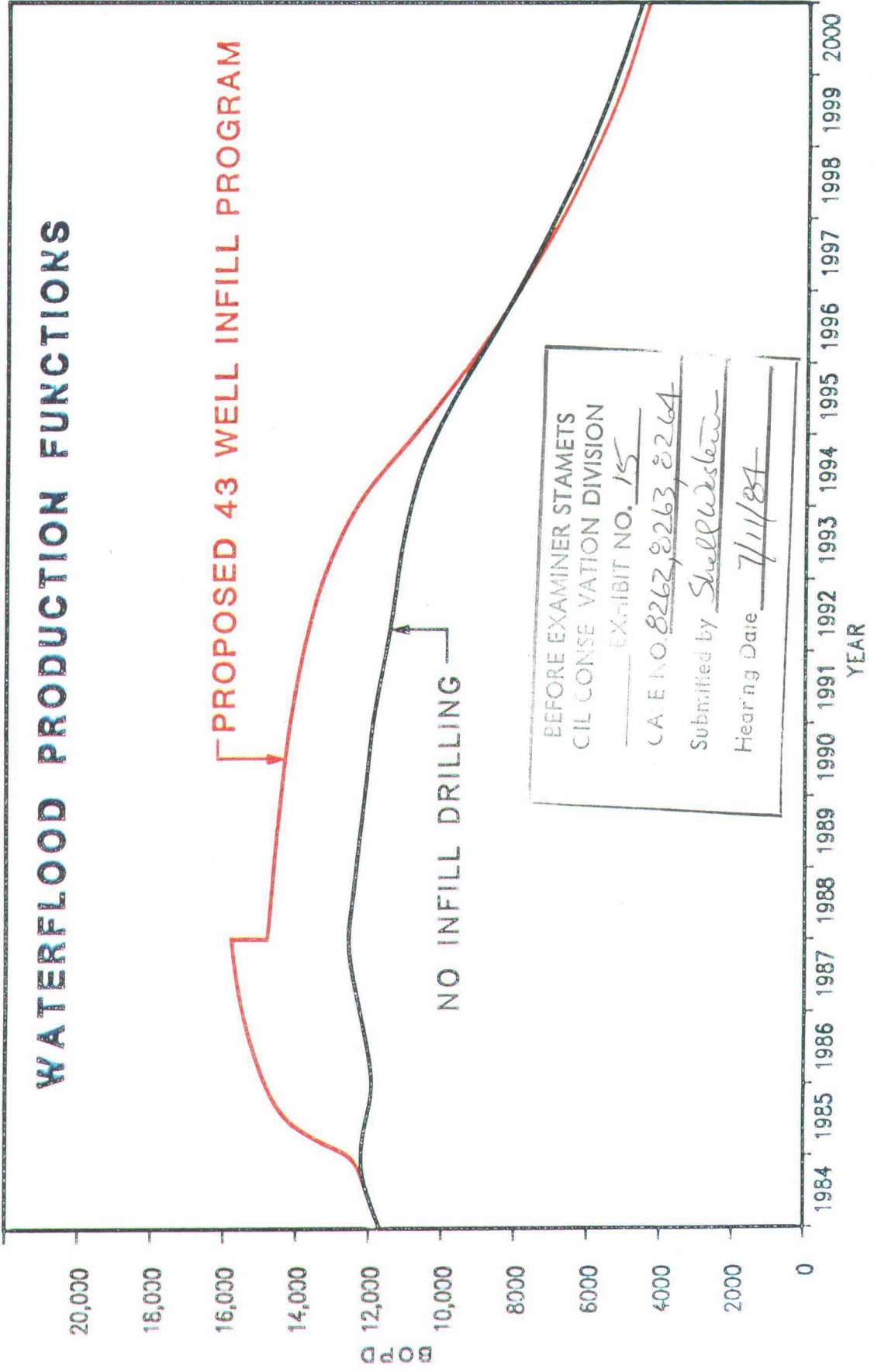
BEFORE EXAMINER STAMETS OIL CONSERVATION DIVISION EXHIBIT NO. <u>13</u> CASE NO. <u>8262, 8263, 8264</u> Submitted by <u>Shell Western</u> Hearing Date <u>7/11/84</u>
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# NORTH HOBBS (G/SA) UNIT AVERAGE INFILL WELL PRODUCTION FUNCTION

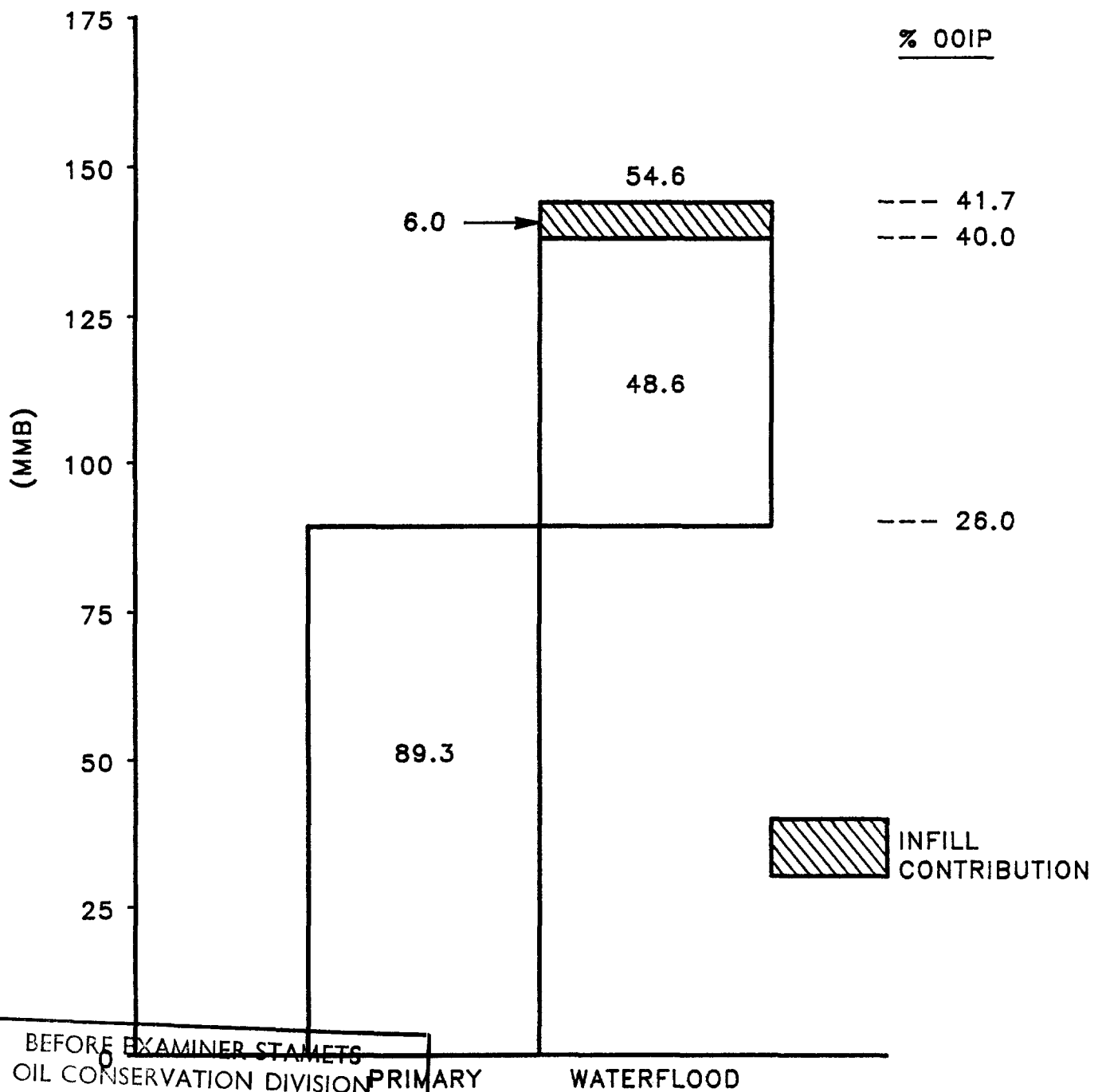


STATE EXAMINER STAFF'S  
 CONSERVATION DIVISION  
 EXHIBIT NO. 14  
 E NO. 8262, 8263, 8264  
 certified by Shael Leisten  
 Hearing Date 7/11/84

**NORTH HOBBS (GRAYBURG/SAN ANDRES) UNIT  
 HOBBS FIELD  
 LEA COUNTY, NEW MEXICO**



# ESTIMATED OIL RECOVERY SAN ANDRES ZONES II & III NORTH HOBBS (G/SA) UNIT



BEFORE EXAMINER STAMETS  
 OIL CONSERVATION DIVISION  
 EXHIBIT NO. 16  
 CASE NO. 8262, 8263, 8264  
 Submitted by Shell Western  
 Hearing Date 7/1/84

EPS-M058432