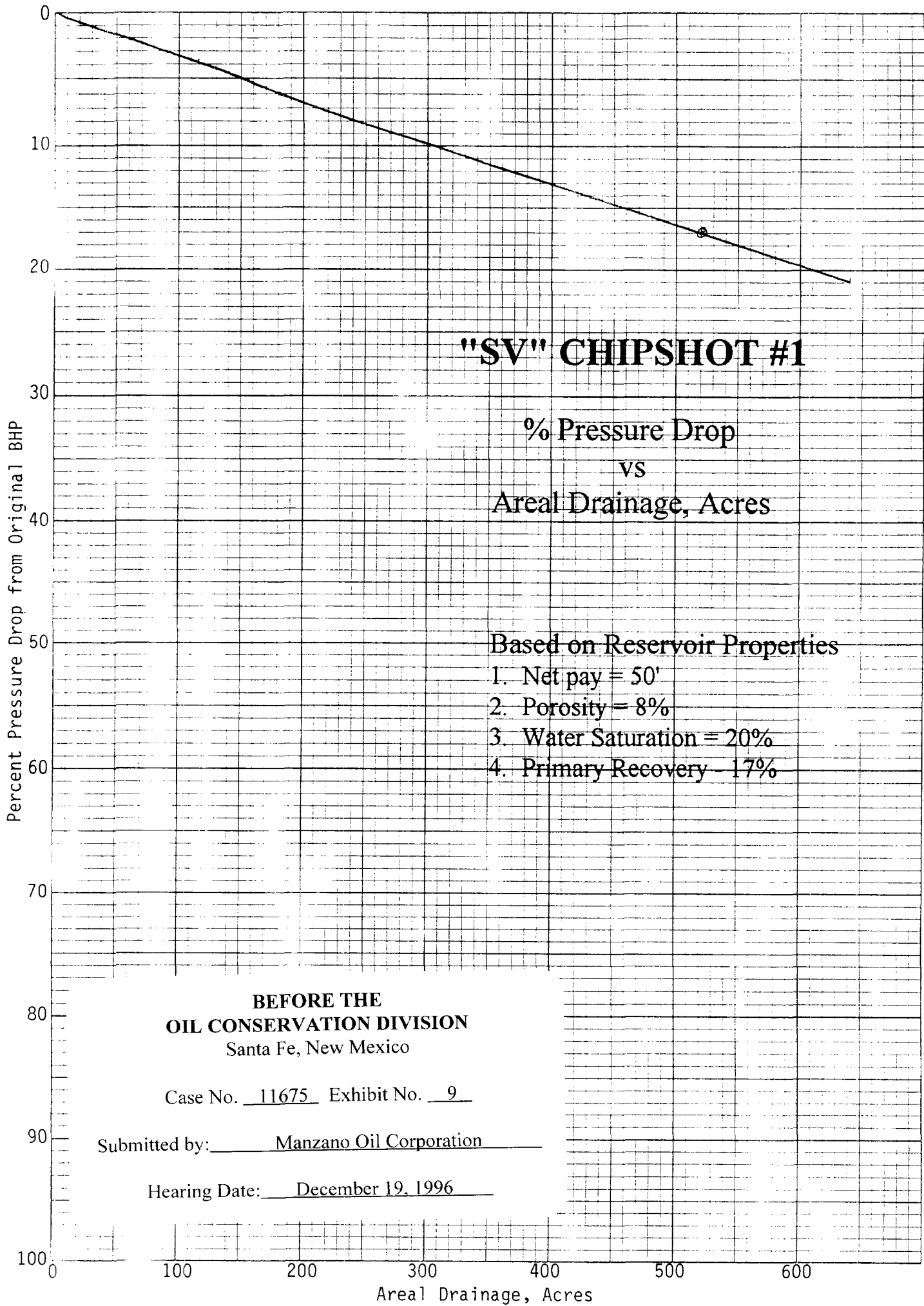


46 0780

10 X 10 TO THE INCH • 7 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.



"SV" CHIPSHOT #1

% Pressure Drop
VS
Areal Drainage, Acres

Based on Reservoir Properties

- 1. Net pay = 50'
- 2. Porosity = 8%
- 3. Water Saturation = 20%
- 4. Primary Recovery = 17%

**BEFORE THE
OIL CONSERVATION DIVISION**
Santa Fe, New Mexico

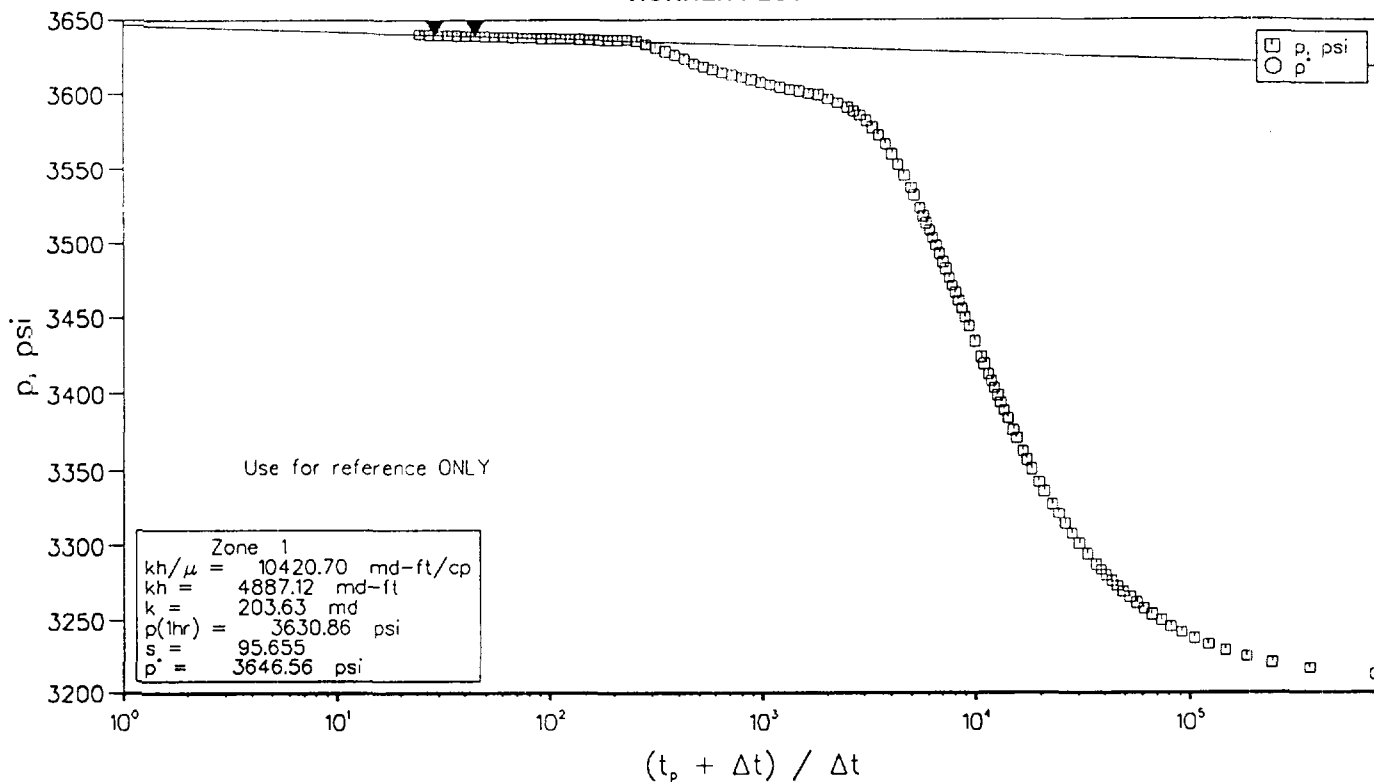
Case No. 11675 Exhibit No. 9

Submitted by: Manzano Oil Corporation

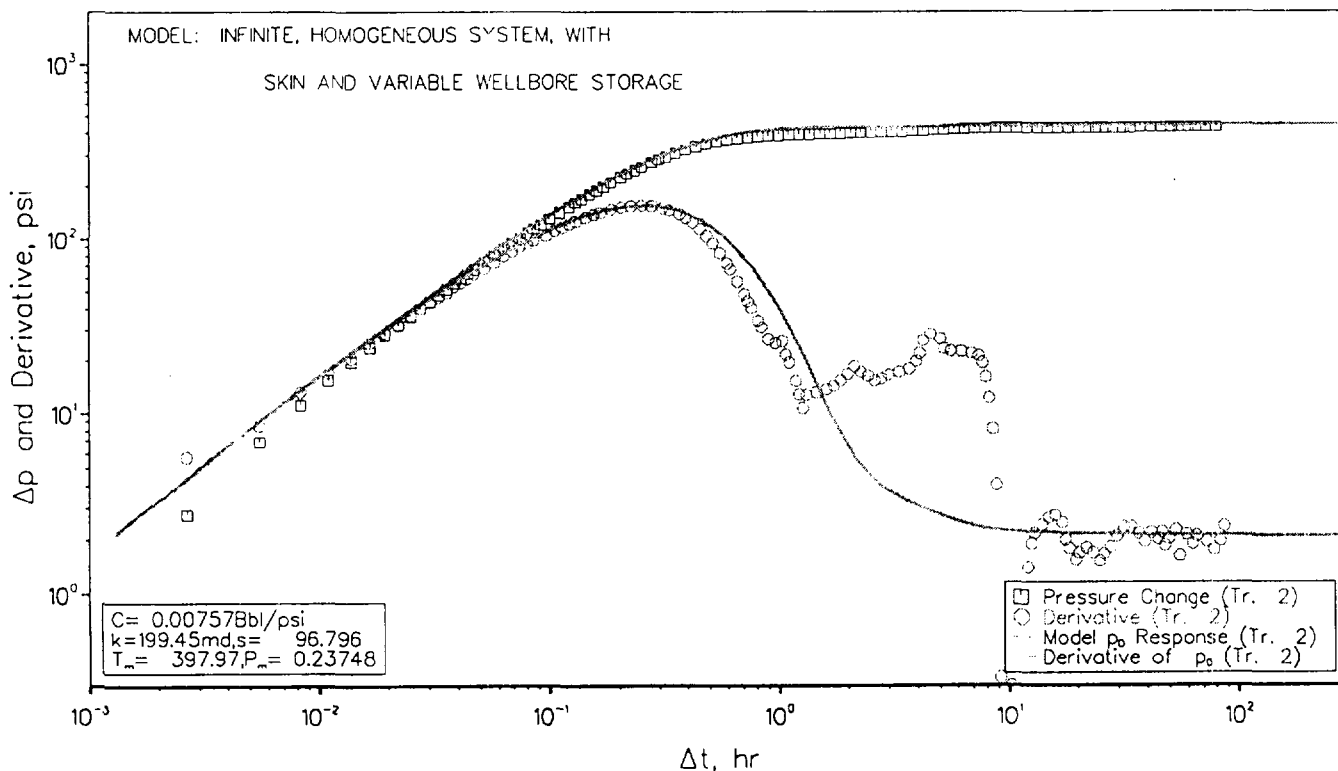
Hearing Date: December 19, 1996

Areal Drainage, Acres

HORNER PLOT



MULTI-RATE TYPE-CURVE MATCH



COMMENTS:

This is a Model Verified Interpretation of the buildup conducted in the Wolfcamp formation, starting on 6-DEC-1996. The reported oil rate is the average over the last 5 days of production. Inspection of the flow regime identification plot (page #6) indicated wellbore storage at early time, a fairly good infinite acting region at middle time, and no indication of boundaries within the test radius of investigation. The "step" behavior in the derivative during transition is probably a combination of changing wellbore storage and partial penetration effects. The data was modeled as being in an infinite, homogeneous system, with skin and variable wellbore storage. The reported value for radius of investigation is a function of the effective permeability, which is in turn a function of the net pay. If h = 50' then R.I. = 1944', or if h = 75' then R.I. = 1587'. Thank you for using Schlumberger Companies. Questions should be directed to Gil Hilsman at (915) 684-0700.

Net Pay, ft	Radius of Investigation, ft	Areal Extent, Acres
24	2086	568
50	1944	273
75	1587	182

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Santa Fe, New Mexico

Case No. 11675 Exhibit No. 10

Submitted by: Manzano Oil Corporation

Hearing Date: December 19, 1996