

DOCKET #11071

EXHIBITS

- #1 9 SECTION DRINKARD FIELD PLAT
WITH OFFSETS
- #2 SCHEMATIC STRATIGRAPHIC CROSS SECTION
- #3 ABO & DRINKARD TREND MAP, VACUUM FIELD
- #4 DRINKARD FORMATION STRUCTURAL CROSS-
SECTION
- #5 STATE M #16 HIGH ANGLE/HORIZONTAL
DIRECTIONAL DRILL WELLBORE SKETCH
- #6 STATE M #17 HIGH ANGLE/HORIZONTAL
DIRECTIONAL DRILL WELLBORE SKETCH
- #7 STATE 0 #3 HIGH ANGLE/HORIZONTAL
DIRECTIONAL DRILL WELLBORE SKETCH
- #8 HORIZONTAL WELL PRODUCTION EVALUATION
- #9 DRINKARD PRODUCTION SCENARIOS,
80 ACRE DRAINAGE
- #10 DRINKARD PRODUCTION SENSITIVITY TO
INITIAL RATE AND TOTAL SKIN
- #11 DRINKARD AVERAGE BHP SENSITIVITY TO
INITIAL RATE AND TOTAL SKIN

17 S - 35 E

29

28

27

Chevron

Exxon

Phillips

Shell

Texaco

Phillips

Marathon Oil Co
Warn State A C 2

MOBIL State "M"
BHL 175TA
PTD 8400
MOBIL State "M"
BHL 165T
PTD 8400

Chevron

32

Phillips

33

Marathon

34

Phillips

MOBIL State
BHL 33T
PTD 8400

ARCO State B 1576
12
ARCO State B 1576
11
ARCO State B 1576
9
ARCO State B 1576
10
8150 Arco 8150

Exxon

Texaco

Phillips

Shell

Chevron

Phillips Pet. Co.
63
9000

Phillips

5

4

3

18 S - 35 E



0 1000' 2000' 3000'

TEXAS STATE PLANE, CENTRAL ZONE

CREATION DATE 28-JUL-94 TIME 13:25:43
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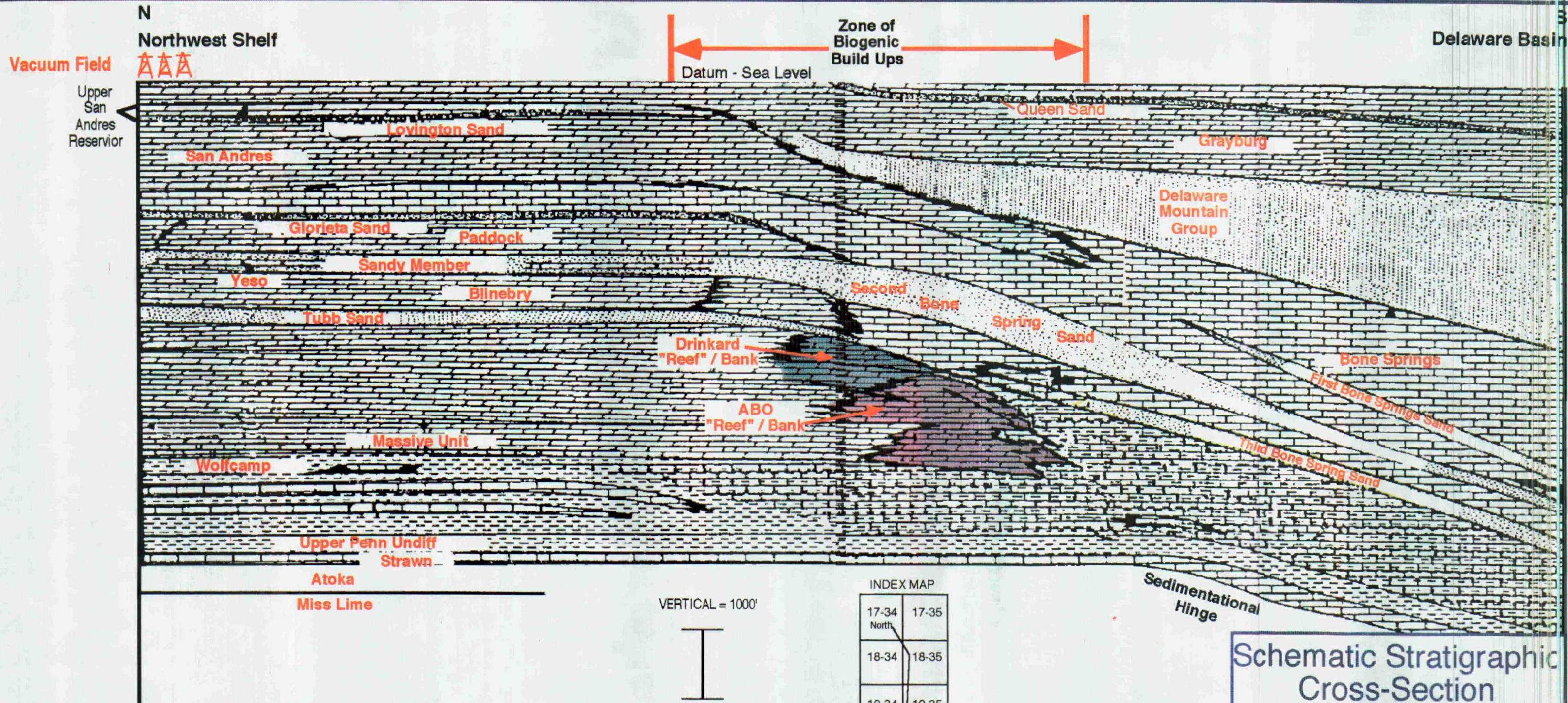
Mobil Exploration & Producing U.S. Inc.
Midland

EXHIBIT NO. 1

DRINKARD FIELD

LEA COUNTY, NEW MEXICO

BMPM002280.DGN



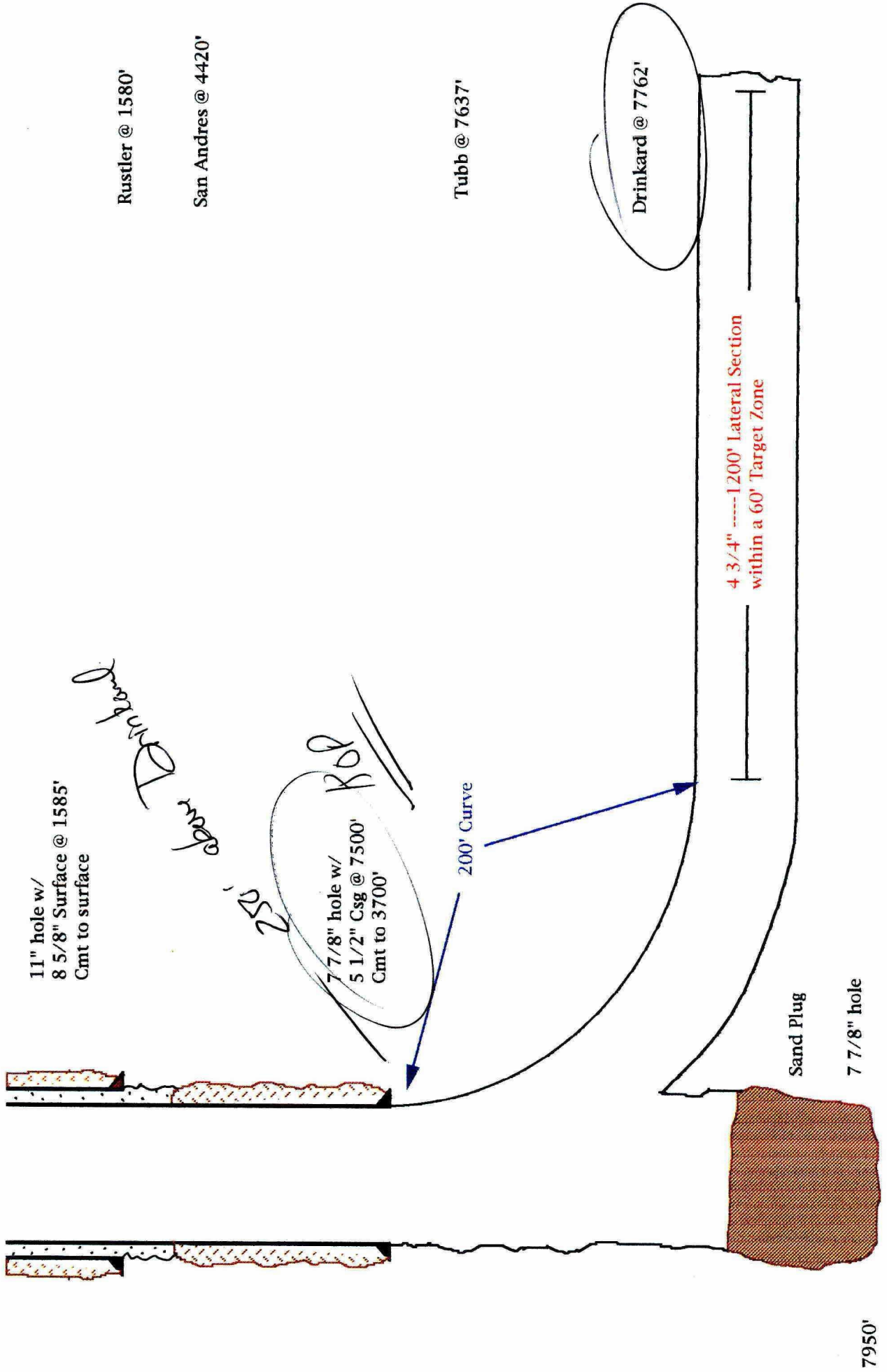
Schematic Stratigraphic Cross-Section

Exhibit No. 2

Modified from Sax N.A. and Stenzel, W.K., 1986

LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE

EXHIBIT 5
STATE "M" #16
LEA COUNTY, NEW MEXICO



Rustler @ 1580'

San Andres @ 4420'

Tubb @ 7637'

7950'

EXHIBIT 6
STATE "M" #17
LEA COUNTY, NEW MEXICO

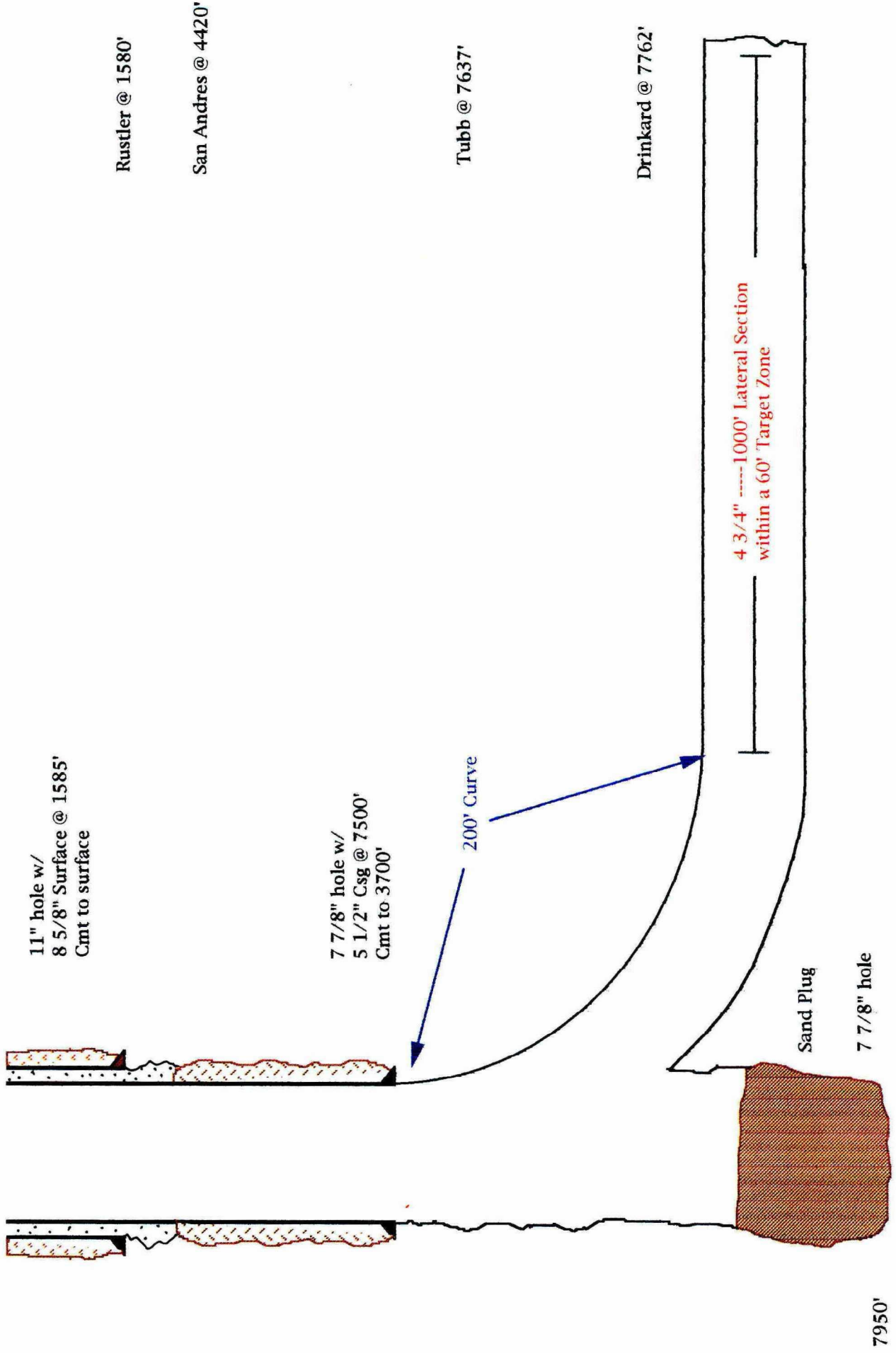


EXHIBIT 7
STATE "O" #3
LEA COUNTY, NEW MEXICO

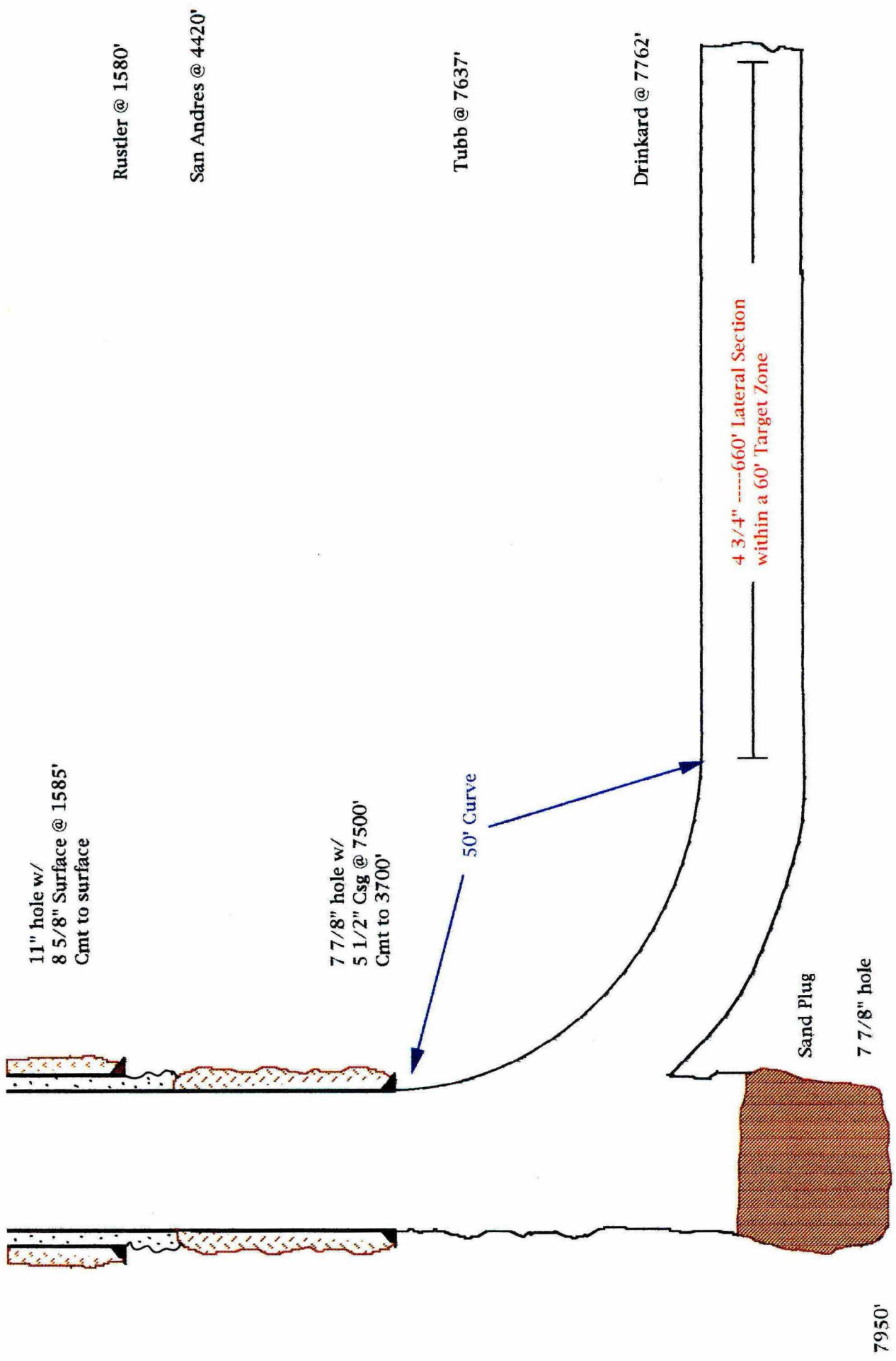


EXHIBIT 8

STATE M No. 16

HORIZONTAL WELL PRODUCTION EVALUATION

LEA COUNTY, NEW MEXICO

PRODUCTION PREDICTION METHOD:

PEGASUS, Mobil's Integrated Finite Difference
Reservoir Simulator Incorporating Babu & Odeh's
Horizontal Well Model, (SPE Papers 18298 & 18802)

SIMULATION PARAMETERS:

DRAINAGE AREA, Acres
GROSS THICKNESS, ft.
INITIAL RESERVOIR PRESSURE, psia
MINIMUM PRODUCING BOTTOMHOLE PRESSURE, psia
HORIZONTAL WELL LENGTH, ft.

80
149
2950
500
1300

SIMULATION PARAMETERS FOR EACH LAYER:

	Top Layer	Middle Layer	Bottom Layer
TOP DEPTHS	7745	7802	7878
THICKNESS, ft.	57	76	16
POROSITY	6%	8%	7%
SW	30%	35%	35%
HORIZONTAL PERMEABILITY, md.	0.42	0.58	0.7
VERTICAL PERMEABILITY, md. (within layers)	0.42	0.58	0.7
VERTICAL PERMEABILITY, md. (between layers)	0	0	0
HORIZONTAL WELL LENGTH, ft.	500	400	400

EXHIBIT 9

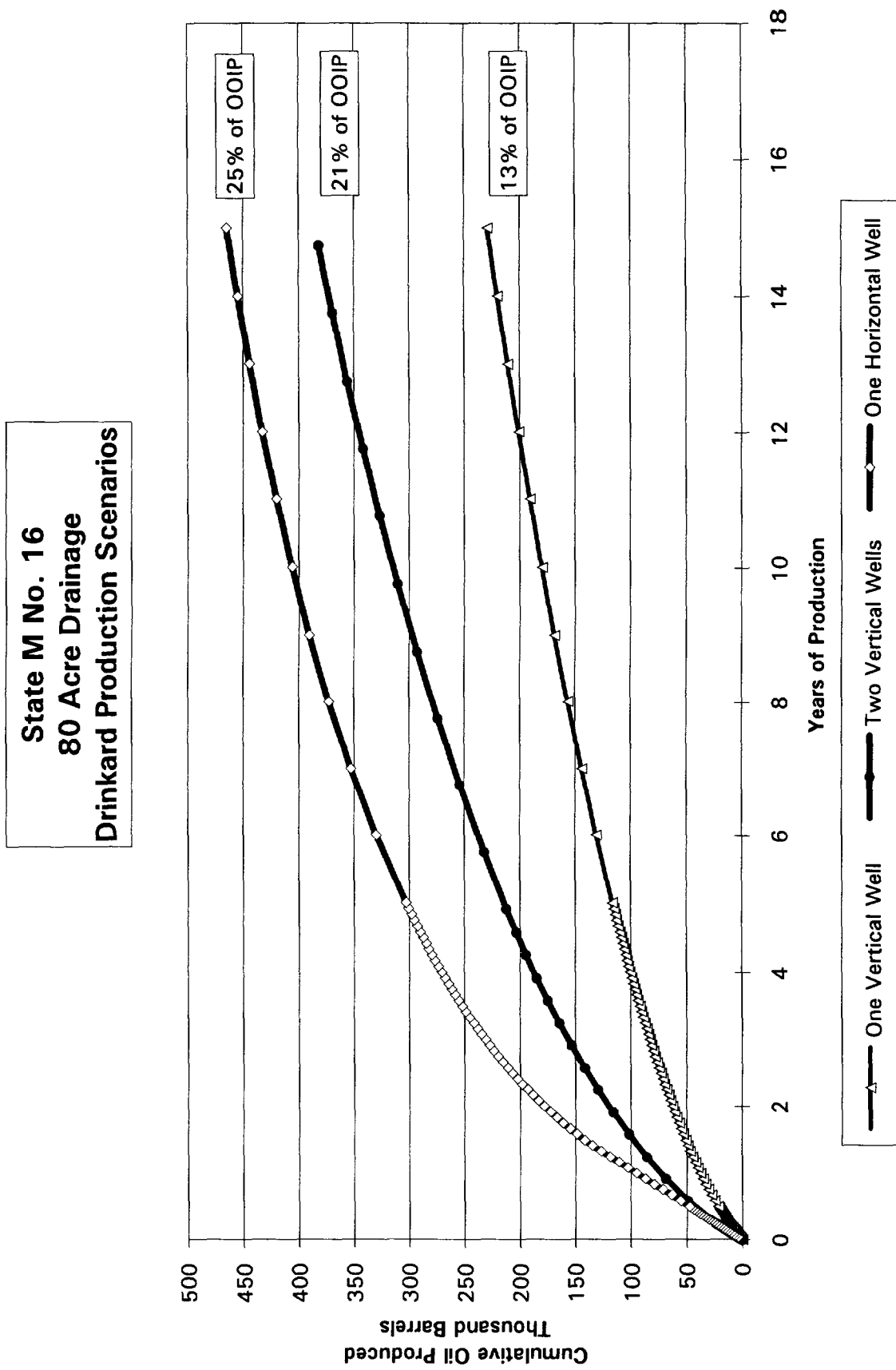


EXHIBIT 10

State M No. 16 Drinkard Production Sensitivity to Initial Rate and Total Skin

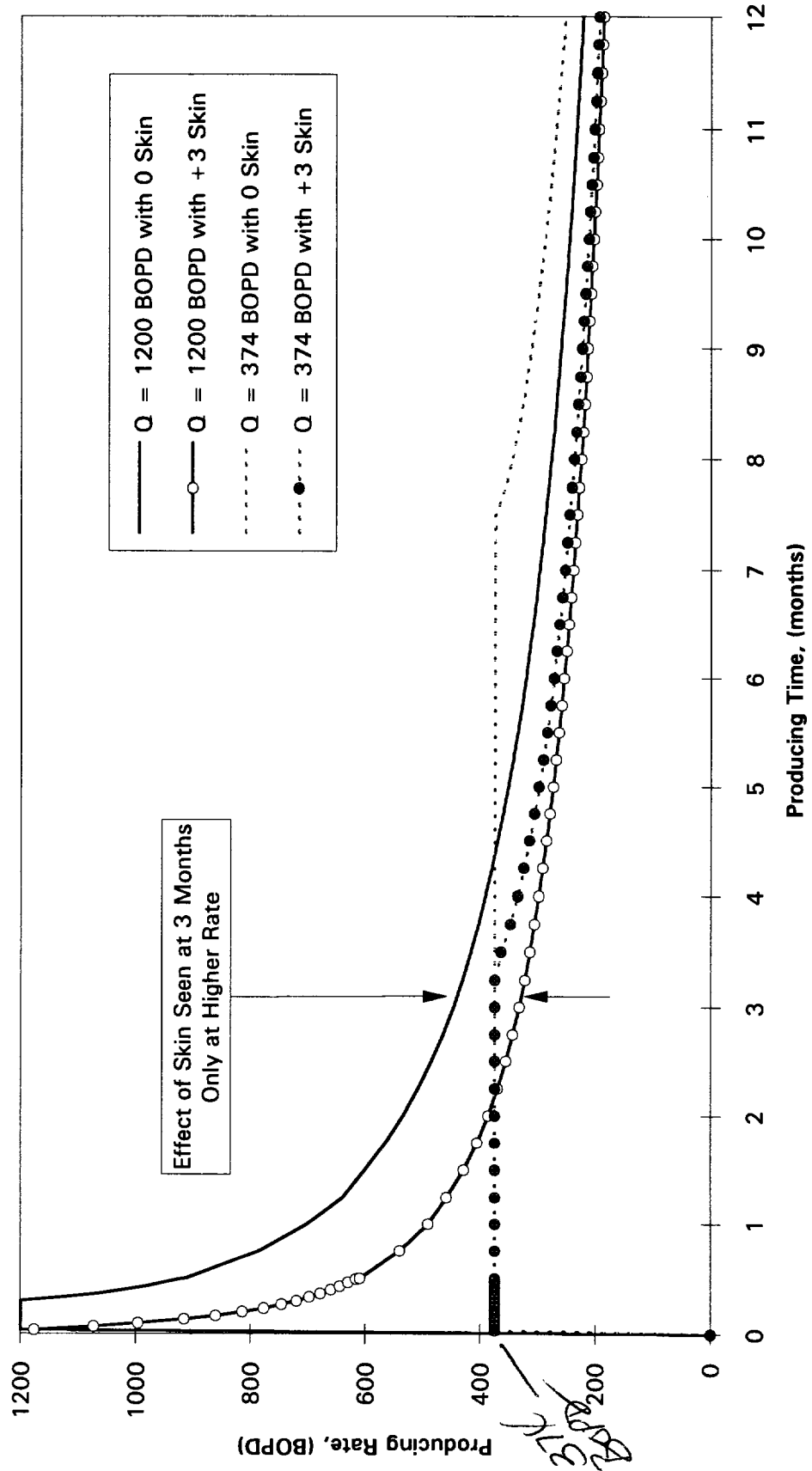


EXHIBIT 11

State M No. 16 Drinkard Average BHP Sensitivity to Initial Rate and Total Skin

