NORTH HOBBS RESERVOIR SIMULATION MODEL
FOR SAN ANDRES ZONES II & III
IN VICINITY OF GETTY GRIMES NO. 2

Single Layer - Constant Thickness

Dimensions

3500'	-	North-South
6000'	-	East-West
70'	-	Thick

No.Cells

9 Cells	-	North-South
15 Cells	-	East-West

Reservoir Properties

Porosity	-	14%
Permeability	-	10 md.
Saturations (initial)		
Oil	-	78%
Water	-	22%
Gas	-	-0-
GØC WØC	Not Included in Model	

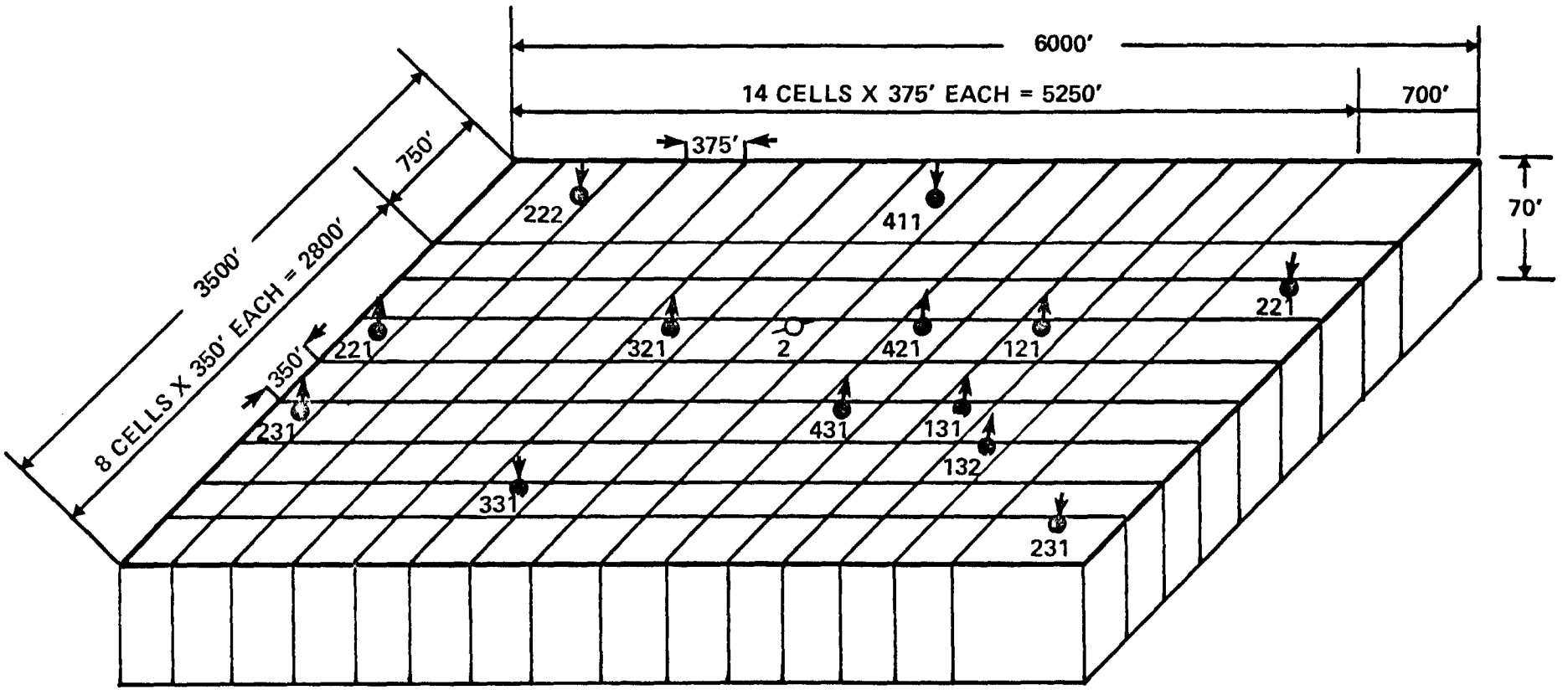
Initial Fluids In Place

OOIP	-	22,000,000 STB
Disolved Gas	-	14,212 MMCF
Free Gas	-	-0-
OWIP	-	8,126,200 STB

Reservoir Pressures (Average)

At Start Primary	-	1550 PSI
At Start Waterflood	-	710 psi

Attachment 2



INJECTION WELL

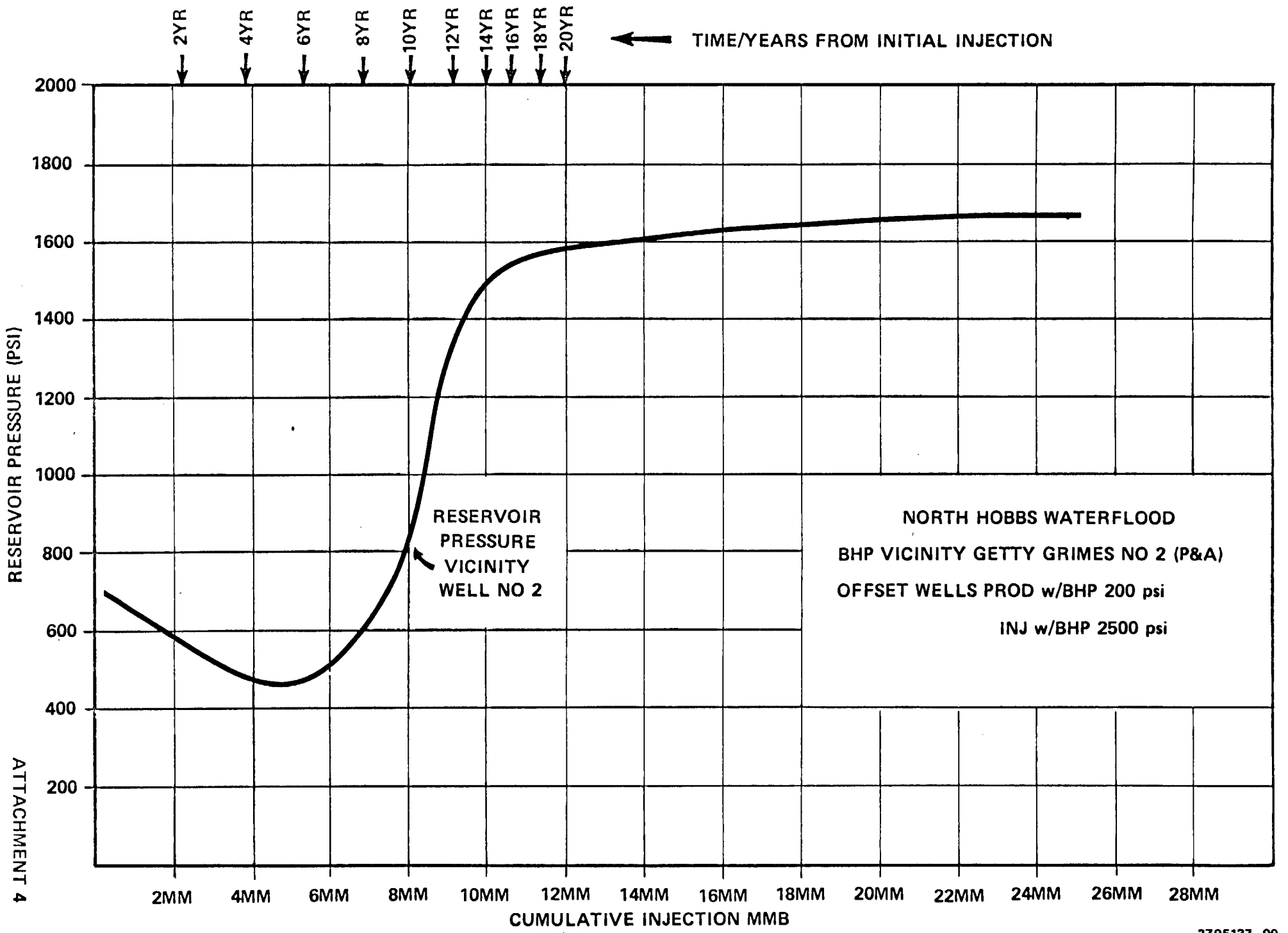
PRODUCING WELL

SHUT IN WELL (NO 2)

NORTH HOBBS SIMULATION MODEL
SAN ANDRES ZONES II & III
IN VICINITY GETTY GRIMES NO 2
8/81

2Z05136-00

ATTACHMENT 3



ATTACHMENT 4

2Z05137-00

R37E

R38E

T 18 S

SAN ANDRES AREA SIMULATED

Getty-Grimes No. 2

NOTE: LETTERS REPRESENT NM STATE 40 ACRE UNIT LETTERING SYSTEM

D C B A
E F G H
L K J I
M N O P

ATTACHMENT 1

- SUSPECTED OF BEING INADEQUATELY PLUGGED
- SUSPECTED OF HAVING NO CEMENT ACROSS G-SA
- CONVERSION OF EXISTING WELL
- NEWLY DRILLED INJECTOR
- NORTH HOBBS (G-SA) UNIT BOUNDARY
- SOUTH HOBBS (G-SA) UNIT BOUNDARY
- POSSIBLE COMMUNICATION WITH ZONE 1 From MDW-415 Formerly UM-61-A

SHELL OIL COMPANY | WESTERN E & P REGION AND CONTINENT DIV | PRODUCTION DEPARTMENT

NORTH HOBBS (GRAYBURG SAN ANDRES) UNIT
HOBBS (GRAYBURG-SAN ANDRES) FIELD
LEA COUNTY, NEW MEXICO
WELL STATUS

Scale 0 1000' 2000'

By TECH COMPUTER | Date 6 19 80 | EM-458

For WITH NEW NUMBERS

2U 00094-00

NORTH HOBBS (GRAYBURG – SAN ANDRES) UNIT

Lea County, New Mexico

R 37 E | R 38 E

1" 1000' 2000

LEGEND

- WELLS COMPLETED IN UNITIZED FORMATION
- UNIT BOUNDARY
- (57) TRACT NUMBER

TEXAS NEW MEXICO RR

N

T 18 S

T 19 S

R 38 E

STATUTORY UNITIZATION
EXHIBIT "B"

2U 00094-00

NORTH HOBBS (GRAYBURG – SAN ANDRES) UNIT

Lea County, New Mexico

0' 1000' 2000'

LEGEND

- WELLS COMPLETED IN UNITIZED FORMATION
- UNIT BOUNDARY
- (57) TRACT NUMBER

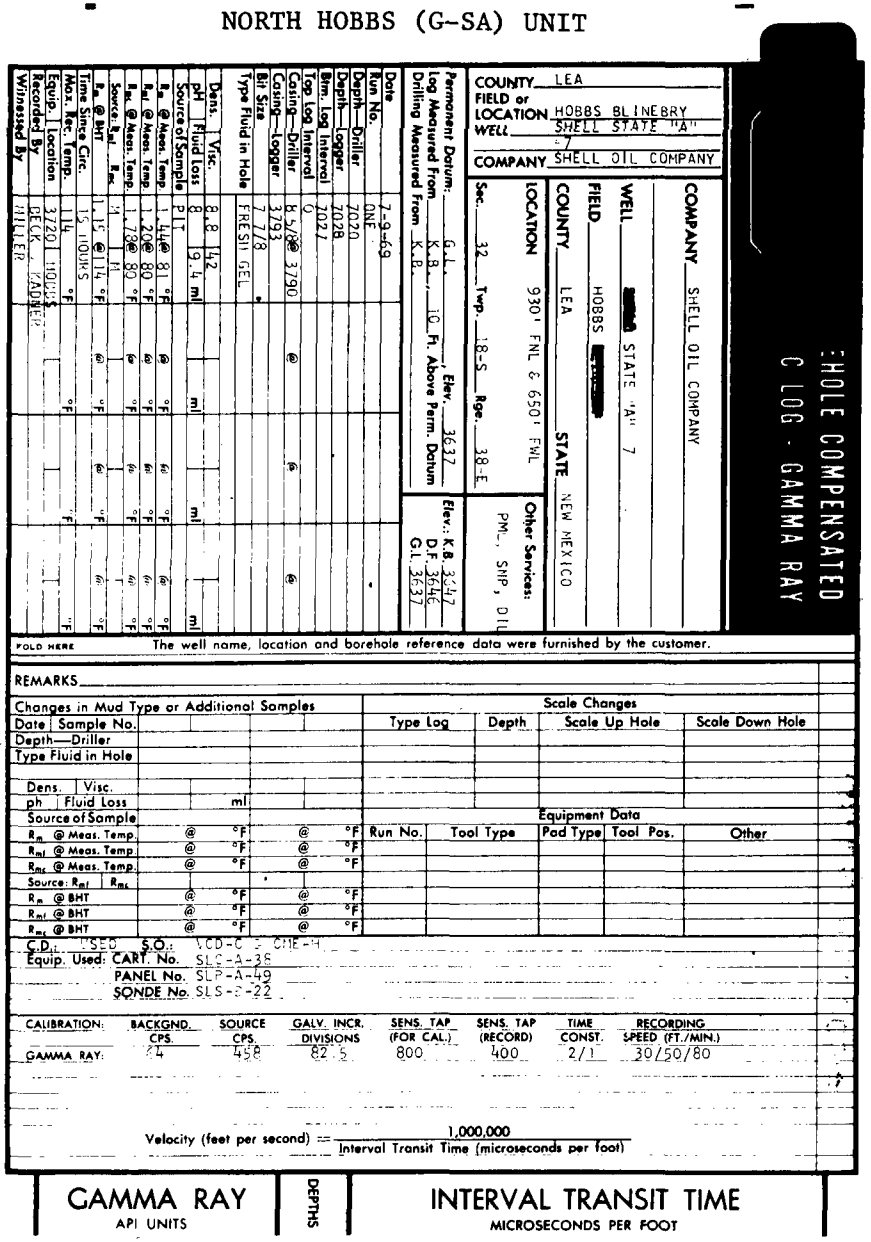
R 37 E | R 38 E

T 18 S

T 19 S

STATUTORY UNITIZATION
EXHIBIT "B"

TYPE LOG
NORTH HOBBS (G-SA) UNIT



STATUTORY UNITIZATION
EXHIBIT "C"