

# DAKOTA

Original SIBHP = 2,516 psi,  $Z_i = 0.882$ ,  $P/Z = 2,852$

Current SIBHP = 746 psi,  $Z_c = 0.940$ ,  $P/Z = 794$

## 30% of Original SIBHP Remaining

Average CUM = 2,329 mmcf

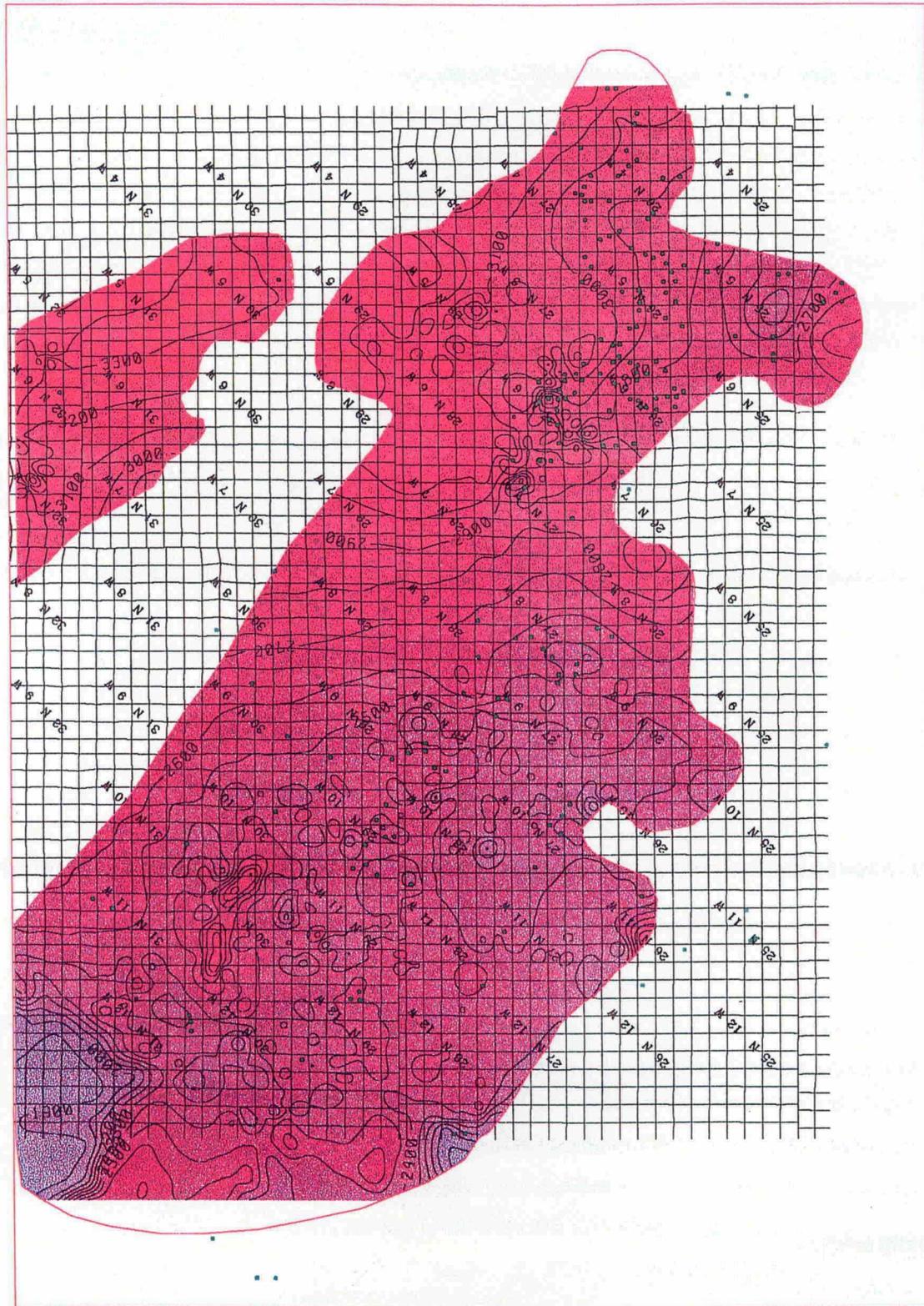
CUM vs P/Z SLOPE =  $2,329 / (2,852 - 794) = 1.13$  mmcf / psi

$P_{abd} = 150$  psi,  $Z_{abd} \sim 1.0$

Rem Reserves =  $1.13$  mmcf/psi \*  $(794 - 150) = 729$  mmcf

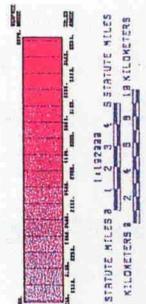
## 24% of EUR Remaining

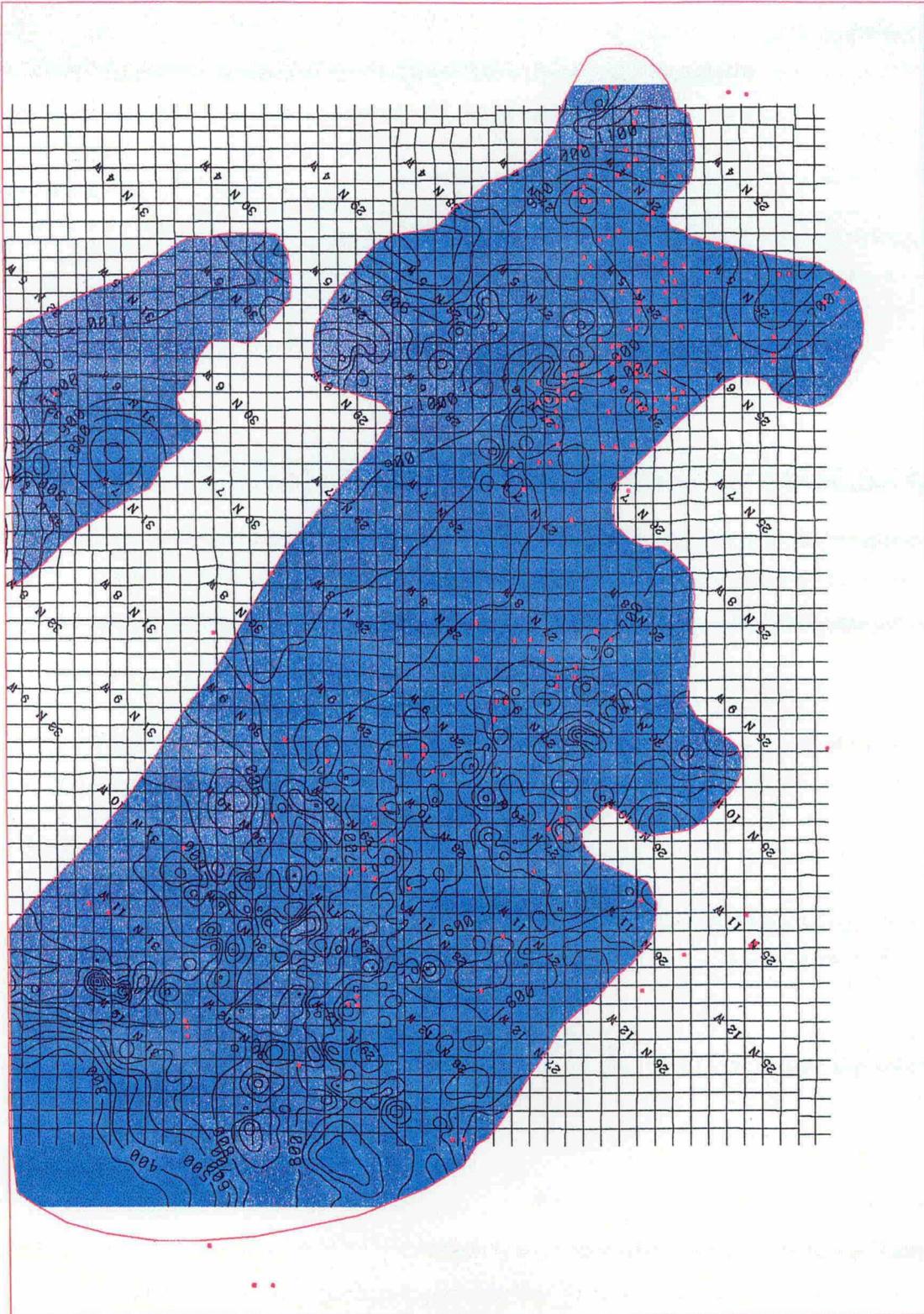
Current Average Production = 85 mcf/d



DAKOTA FIRST SIBHP

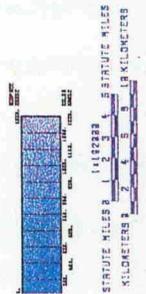
DATE: 1 1981  
 DRAWN BY: J. J. H. / J. J. H. / J. J. H.  
 SCALE: 1:50,000  
 SHEET: 1 OF 1





DAKOTA LAST SIBHP

Scale: 1:100,000  
 Date: 2-01-85  
 Sheet: 1 of 1



STATUTE MILES 1 2 3 4 5 6  
 KILOMETERS 2 4 6 8 10

# DAKOTA

**OPERATING EXPENSES = \$540/MONTH**  
**CAPITAL EXPENSES (M\$)**

## 1. SINGLE COMPLETION:

	<u>TANGIBLE</u>	<u>INTANGIBLE</u>	<u>TOTAL</u>
DRILLING	\$ 76.90	\$222.80	\$299.70
COMPLETION	\$ 26.40	\$110.00	\$136.40
FACILITIES	\$105.80	\$ 0.00	\$105.80
<b>TOTAL</b>	<b>\$209.10</b>	<b>\$332.80</b>	<b>\$541.90</b>

## 2. DUAL COMPLETION:

	<u>TANGIBLE</u>	<u>INTANGIBLE</u>	<u>TOTAL</u>
DRILLING	\$56.10	\$161.00	\$217.10
COMPLETION	\$30.40	\$121.70	\$152.10
FACILITIES	\$92.60	\$ 0.00	\$ 92.60
<b>TOTAL</b>	<b>\$179.10</b>	<b>\$282.70</b>	<b>\$461.80</b>

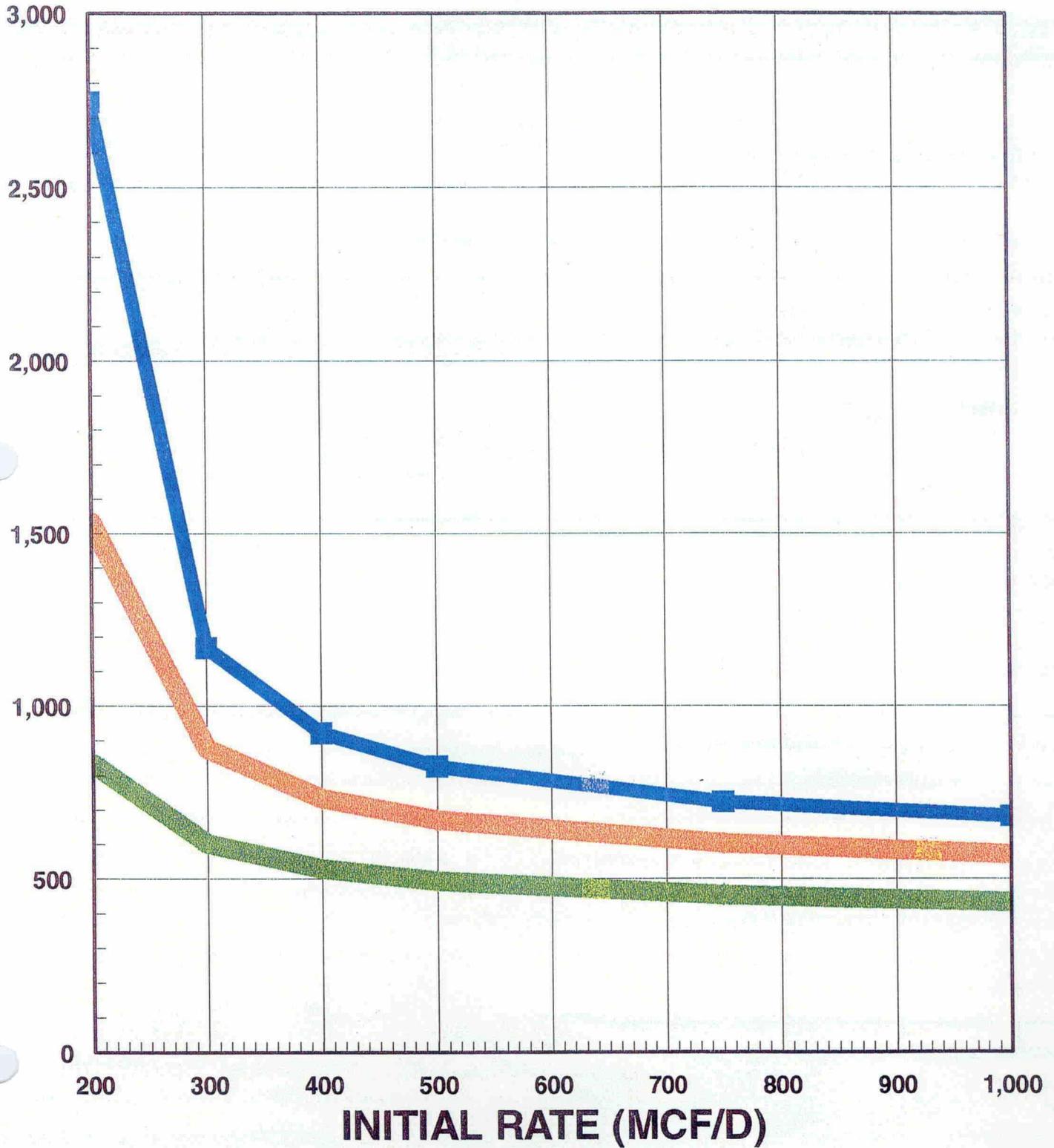
## 3. COMMINGLED COMPLETION:

	<u>TANGIBLE</u>	<u>INTANGIBLE</u>	<u>TOTAL</u>
DRILLING	\$40.50	\$141.30	\$181.80
COMPLETION	\$16.50	\$118.30	\$134.80
FACILITIES	\$48.00	\$ 0.00	\$48.00
<b>TOTAL</b>	<b>\$105.00</b>	<b>\$259.60</b>	<b>\$364.60</b>

# DAKOTA



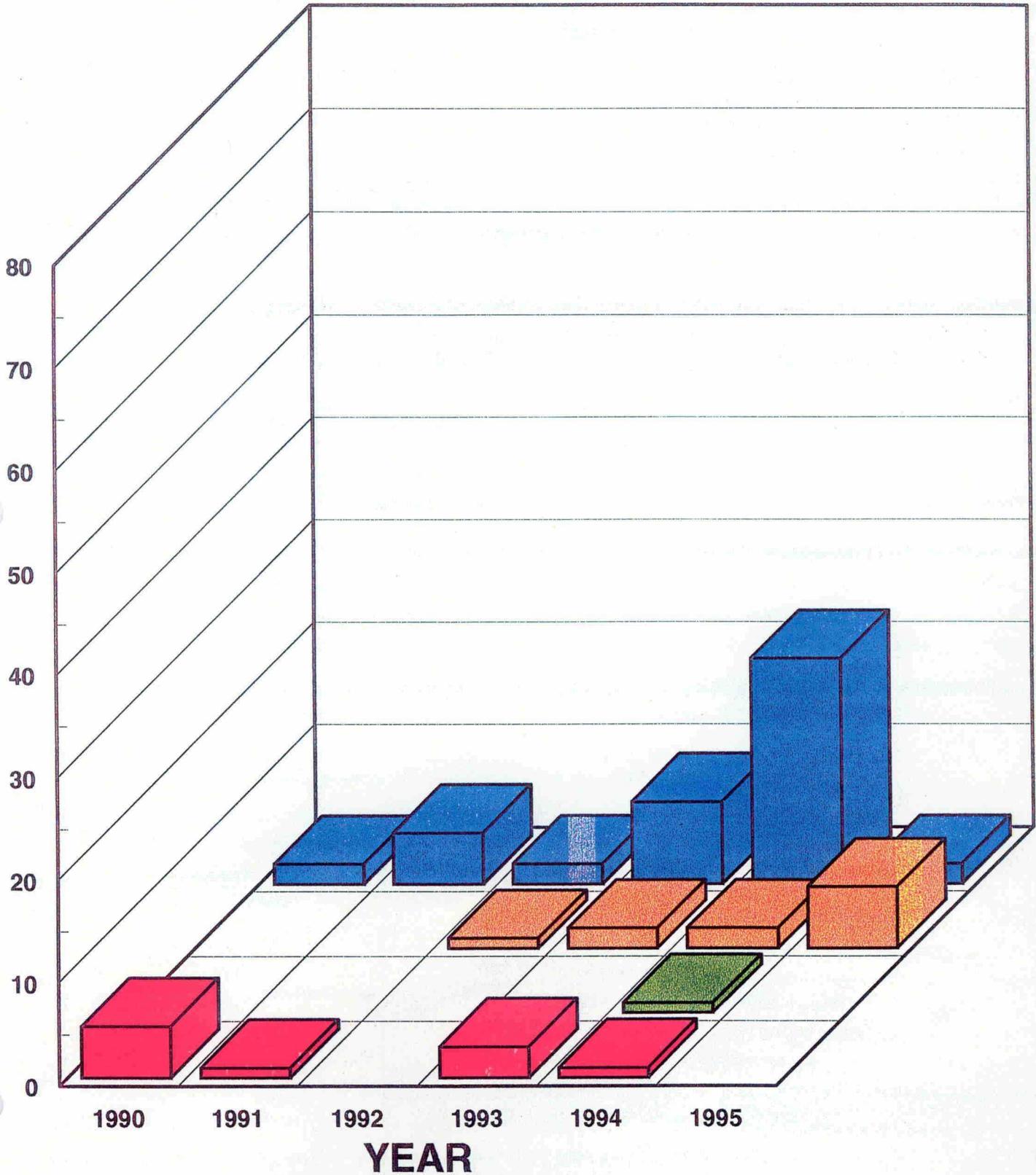
EUR (MMCF)



# DAKOTA



# OF COMPLETIONS



# DAKOTA

# OF COMPLETIONS (1990 - 1995)	63
# OF UNDEVELOPED DRILL BLOCKS (UDDB's)	2,246
PERCENTAGE OF UDDB's DEVELOPED PER YEAR	0.5%
YEARS REQUIRED TO DEVELOP UDDB'S	214
CAPITAL REQ'D PER UDDB (COMMINGLED) M\$	365
TOTAL CAPITAL REQ'D MMS	820
EUR PER UDDB      MMCF	729
RESERVES DEVELOPED BCF	1,637
ROYALTIES @12.5% MM\$	383
ADVELORUM & SEVERANCE TAX @8% MMS	210
OPERATING EXPENSES MM\$	674
INCOME TAX @38% MM\$	309