

A. NATIONAL ENERGY BOARD
CRUDE OIL PRODUCIBILITY FORECAST

POOL: VIRDEN ROSELEA MISSISSIPPIAN

SUBMITTOR: CHEVRON STANDARD LIMITED

FIELD: VIRDEN ROSELEA

TOTAL POOL INCLUDING VIRDEN
UNIT: ROSELEA UNITS 1, 2 AND 3

DATE: 1978-03-27

B. PRODUCIBILITY FORECAST

From
Established Reserves at 1-1-78

YEAR BARRELS PER DAY

1978 2,660
1979 2,520
1980 2,360

1981 2,220
1982 2,090
1983 1,960
1984 1,830
1985 1,710

1986 1,590
1987 1,480
1988 1,370
1989 1,270
1990 1,170

1991 1,070
1992 990
1993 900
1994 820
1995 740

C. OIL RESERVOIR DATA

For
Established Reserves at 1-1-78

Area, acres 10,600
Average pay, ft 39.4
Rock volume, acre-ft 418,000

Porosity, % 11.6
Connate water, % 52.0
Shrinkage, % 0.95
Initial oil-in-place, MSTB 171,500

Hor. permeability, md 15
Vert. permeability, md 10
Pressure-datum, ft ss 525
Initial pressure, psia 915
Initial oil viscosity, cp 4.0
Current pressure, psia 900
Current oil viscosity, cp 4.0

Primary recovery, % 13.8
Improved recovery, % 11.5
Improved recovery mechanism Waterflood
Total recoverable oil, MSTB 43,445

Cumulative oil production
to 1-1-78, MSTB 31,161

POTENTIAL RESERVES ADDITIONS

D. DRILLING POTENTIAL

No. of wells
Comments Pool Fully Developed

Recoverable Oil, MSTB

IMPROVED RECOVERY POTENTIAL

Method
Comments

Recoverable Oil, MSTB

CRUDE OIL RESERVES AND PRODUCTIVE CAPACITY DATA SHEET

A.
SUBMITTOR: Chevron Standard Limited
DATE: 1980-09-05

FIELD: Viriden-Roselea
POOL: Total pool including Roselea
UNIT: Units 1, 2 and 3

B. PRODUCTIVE CAPACITY FORECAST
m³ per day

YEAR	From Established Reserves at 1980-01-01	From Reserves Additions in Section D
1979 (production)	420	
1980	393	
1981	373	
1982	355	
1983	340	
1984	318	
1985	304	
1986	288	
1987	274	
1988	260	
1989	247	
1990	230	
1991	213	
1992	198	
1993	183	
1994	169	
1995	156	
1996	136	
1997	125	
1998	116	
1999	107	
2000	103	

C. OIL RESERVOIR DATA
For Established Reserves
at 1980-01-01

Area, ha	4 290
Average pay, m	12.01
Rock Volume, 10 ⁴ m ³	5.092 2
Porosity, %	11.6
Connate Water, %	52.0
Shrinkage, %	95.0
Initial oil in place, 10 ⁶ m ³	27.253
Hor. permeability, mD	15
Vert. permeability, mD	10
Pressure-Datum, m SS	160.0
Initial Pressure, kPa	6 309
Initial oil viscosity, mPa.s	4.0
Current pressure, kPa	6 205
Current oil viscosity, mPa.s	4.0
Primary Recovery, %	13.8
Improved Recovery, %	11.5
Improved Recovery Mechanism	Waterflood
Total Recoverable Oil, 10 ⁶ m ³	7.045
Cumulative oil production to 1980-01-01, 10 ⁶ m ³	5.261
Remaining Established Reserves at 1980-01-01, 10 ⁶ m ³	1.784

D. POTENTIAL RESERVES ADDITIONS

Check	Improved Recovery Mechanism	# of New Wells	Incremental Recovery 10 ⁶ m ³	Comments:
<input type="checkbox"/>	Infill Drilling			
<input type="checkbox"/>	Waterflooding			
<input type="checkbox"/>	CO ₂			
<input type="checkbox"/>	Hydrocarbon			
<input type="checkbox"/>	Chemical Flooding			
<input type="checkbox"/>	Thermal Techniques			
<input type="checkbox"/>	Other:			
<input type="checkbox"/>	No Potential			