

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

B. PRODUCTIVE CAPACITY FORECAST
m³ per day
From Established Reserves at 1980-01-01 From Reserves Additions in Section D

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			