

N. Vacuum Abo Unit History

- Abo Reservoir Discovery Date: 1963
- NMOCC Order No. 4430 creating Mobil N. Vacuum Abo project October 1972.
- Date of first injection: August 1973
- GOR prior to waterflood: 700
- Infill drilling on 80 acre units began in 1974.
- NVAU developed into a five spot waterflood with 160 acre patterns.
- From Sept. 1983-1986 another infill drilling project resulted in 40 acre well spacing.
- Five horizontal laterals were drilled starting August 1997 (2 producers & 3 injectors)
- Dec. 1997 Avg. Prod. = 20 Bopd + 60 Bwpd + 14 Mcfd/well
Avg. Inj. = 98 Bwpd @ 3839 psig/well
- Well Count: 79 Producers
 76 Injectors

Vacuum Reservoir Characteristics Lea County, New Mexico

	North Vacuum Abo Unit
Reservoir Type	Abo Carbonate
Productive Acreage	6320 ac.
OOIP, mmbo	94.9
Recovery Primary	4.54%
Secondary to Date	28.34%
Mobil Gross WI, %	77.845
Discovery Date	1963
Well Spacing, acres	40
Start of Waterflood	Aug. 1973
Flood Pattern	80 ac. 5 spot
Current Production, bopd	1738
As of Dec 1997 mcf	1131
bwpd	4727
Depth of pay, ft	8600
Net Pay, ft	35
Avg. Porosity, %	9.71
Avg. Perm, md	1.5
Initial Wtr Saturation	0.22
Oil Gravity, Deg API	36.0
Avg Oil Viscosity, cp	0.34
Reservoir Temperature	133 Deg F.

LSE : NORTH VAC ABO UT

