

## DAFTAR PUSTAKA

- Abdurrahman, M. (2017). Chemical Enhanced Oil Recovery (EOR) Activities in Indonesia: How it's Future. *AIP Conference Proceedings*, 1840.
- Ahmed, Tarek H., "*Hydrocarbon Phase Behavior*", Gulf Publishing Company, Houston, Texas, 1989 (Bab 8).
- Amyx, J.W., Bass, D.W.Jr., Whiting, R.L., "*Petroleum Reservoir Engineering Physical Properties*", Mc Graw Hill Books Company, New York, Toronto, London, 1960 (Halaman 359 - 381).
- Bera, A., Shah, S., Shah, M., Agarwal, J., & Vij, R. K. (2020). Mechanistic Study on Silica Nanoparticles-Assisted Guar Gum Polymer Flooding for Enhanced Oil Recovery in Sandstone Reservoirs. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 598, 124833.
- Craf, B.C and Hawkins, M.F., "*Applied Petroleum Reservoir Engineering*", Prentice-Hall, Inc., Englewood Cliffs, New Jersey, 1959 (Bab 10).
- Dake, L.P., "*Fundamentals of Reservoir Engineering*", Elsevier, New York, 1978 (Bab 1).
- Danesh, Ali, "*PVT and Phase Behaviour of Petroleum Reservoir Fluids*", Elsevier, Amsterdam, Lausanne, New York, Oxford, Shannon, Singapore, Tokyo, 1998 (Bab 2).
- Fanchi, J. F., "*Principles of Applied Reservoir Simulation*", Elsevier, Oxford, USA, 2006 (Bab 18).
- Ghadami, Nader et.al., "*Enhanced History Matching and Prediction Using Integrated Analytical and Numerical Modeling Approach*", SPE-186384-MS, dipresentasikan di SPE/IATMI Asia Pacific Oil & Gas Conference, Jakarta, 2017.
- Havlena, D., Odeh, A.S., "*The Material Balance as an Equation of Straight Line*", Journal of Petroleum Technology, Dallas, 1964.
- Havlena, D., Odeh, A.S., "*The Material Balance as an Equation of Straight Line Part II*", Journal of Petroleum Technology, Dallas, 1964.

- Kabir, C.S., et.al., “*Experiences with Automated History Matching*”, SPE 70670, dipresetasikan di SPE Reservoir Simulation Symposium, Houston, Texas, 2003.
- Kristanto, D., Rukmana D., dan Aji, V. Dedi C. “Teknik Reservoir Teori dan Aplikasi”, Pohon Cahaya, Yogyakarta, 2012 (bab XIII dan bab XI).
- Lake, Larry., “*Fundamental of Enhanced Oil Recovery*”, PennWell Books, Tulsa, Oklahoma, 2014
- McCain, William D., “*The Properties of Petroleum Fluids Second Edition*”, PennWell Books, Tulsa, Oklahoma, 1990 (Bab 8).
- Ou, Jin, et.al., “*Dynamic Rock Typing Study of a Complex Heterogeneous Carbonate Reservoir in Oil Field, Iraq*”, SPE-183472-MS, dipresentasikan di Abu Dhabi International Petroleum Exhibition & Conference, Abu Dhabi, 2016.
- Pamungkas, Joko, “Pemodelan dan Aplikasi Simulasi Reservoir”, Edisi I, UPN “Veteran”, Yogyakarta, 2011 (bab III).
- Pamungkas, Joko, dan Supit, Roby, “Penyelarasan Data PVT Sumur dengan Menggunakan Software Winprop”, Jurnal Ilmu Kebumian Teknologi Mineral, ISSN 0854-2554, Yogyakarta, 2007.
- Pertamina, 2023., Studi Simulasi Reservoir Chemical EOR Fullscale Lapangan Tanjung Zona ABCD
- Pletcher, J.L., “*Improvements to Reservoir Material Balance Methods*”, SPE 62882, dipresentasikan di SPE Annual Technical Conference and Exhibition, Dallas, Texas, 2000.
- Ramos, M. C., Ortega, J., & Alvarez, M. (2020). Integrating Numerical Simulation and CEOR for Enhanced Oil Recovery. *Journal of Petroleum Science and Technology*, 35(4), 45–60.
- Rukmana, Dadang, “Simulasi Reservoir”, BPMIGAS - SKK Migas, Bali, 2013.
- Tavassoi Z., et. al., “*Errors in History Matching*”, SPE 86883, Imperial College, London, 2004.

## DAFTAR SINGKATAN DAN LAMBANG SINGKATAN

OOIP	<i>Original Oil in Place, STB</i>	29
RF	<i>Recovery Factor, %</i>	28
UR	<i>Ultimate Recovery, STB</i>	29
RR	<i>Remaining Reserve, STB</i>	29
WC	<i>Water Cut, %</i>	25
IFT	<i>Interfacial Tension, dyne/cm</i>	25
CEOR	<i>Chemical Enhanced Oil Recovery</i>	25
PVT	<i>Pressure Volume Temperature</i>	25
OWC	<i>Oil Water Contact, Meter</i>	29
GOC	<i>Gas Oil Contact, Meter</i>	29
GWC	<i>Gas water Contact, Meter</i>	29
N <sub>p</sub>	<i>Cum. Oil Production, BBL</i>	33
G <sub>p</sub>	<i>Cum. Gas Production, SCF</i>	33
W <sub>p</sub>	<i>Cum. Water Production, BBL</i>	33
L <sub>p</sub>	<i>Cum. Liquid Production, BBL</i>	33

### LAMBANG

<i>q<sub>i</sub></i>	<i>Rate produksi pada waktu t = 0, STB/day</i>	25
<i>q<sub>t</sub></i>	<i>Rate produksi pada waktu tertentu (t), STB/day</i>	25
<i>D<sub>i</sub></i>	<i>Decline Rate, 1/waktu</i>	25
<i>b</i>	<i>Eksponen decline, 0-1</i>	26
<i>N<sub>p</sub></i>	<i>Kumulatif produksi, STB</i>	26
<i>N<sub>i</sub></i>	<i>Jumlah minyak mula-mula, bbl</i>	27

**DAFTAR SINGKATAN DAN LAMBANG SINGKATAN  
(Lanjutan)**

<i>We</i>	Perembesan air, bbl	27
<i>Wp</i>	Produksi air kumulatif, bbl	28
<i>Boi</i>	Faktor volume formasi minyak mula-mula, bbl/STB	28
<i>Bo</i>	Faktor volume formasi minyak saat t, bbl/STB	28
<i>Bgi</i>	Faktor volume formasi gas mula-mula, cuft/SCF	28
<i>Bg</i>	Faktor volume formasi gas saat t, cuft/SCF	28
<i>Rsi</i>	Jumlah gas yang terlarut dalam minyak saat t, SCF/STB	28
<i>Rs</i>	Jumlah gas yang terlarut dalam minyak saat t, SCF/STB	28
<i>Rp</i>	Perbandingan gas kumulatif dengan minyak kumulatif, SCF/STB	28
<i>Bw</i>	Faktor volume formasi air saat t, bbl/STB	28
<i>m</i>	Perbandingan jumlah volume <i>gas cap</i> mula-mula dengan volume minyak mula-mula, SCF/STB	28
$\emptyset$	Porositas, %	28
<i>Swi</i>	Saturasi air awal, %	28
$\mu_{ob}$	Viskositas minyak pada <i>bubble point pressure</i> , cp	28
<i>Pb</i>	<i>Bubble point pressure</i> , psia	29
<i>Pa</i>	Tekanan <i>abandon reservoir</i> , psia	29