

DAFTAR ISI

LEMBAR PENGESAHAN	ii
PERNYATAAN KEASLIAN KARYA ILMIAH	iii
HALAMAN PERSEMBAHAN	iv
PRAKATA.....	v
RINGKASAN.....	vi
ABSTRACT.....	vii
DAFTAR ISI	viii
DAFTAR GAMBAR	x
DAFTAR TABEL.....	xii
DAFTAR SINGKATAN DAN LAMBANG	xiii
BAB I PENDAHULUAN	1
I.1 Latar Belakang.....	1
I.2 Maksud dan Tujuan	2
I.3 Batasan Masalah.....	2
I.4 Metodologi	3
I.5 Sistematika Penulisan	3
BAB II TINJAUAN PUSTAKA	5
II.1 Model Reservoir	5
II.2. Data Reservoir	8
II.2.1 <i>Fluid Properties</i>	8
II.3. Inisialisasi	12
BAB III DASAR TEORI	13
III.1 <i>Carbon Capture Utilization and Storage</i>	13
III.1.1 <i>Carbon Capture Utilization and Storage (CCUS)</i>	13
III.2. <i>Shale Gas Reservoir</i>	18
III.3. <i>CCUS Shale Gas Recovery</i>	19
III.3.1 Adsorpsi dan Difusi	19
III.3.1.1 Difusi.....	20
III.3.1.2 Adsorpsi	20
III.3.1.3 <i>Competitive Adsorption</i>	21
III.3.1.4 <i>Extended Langmuir Isotherm</i>	21

DAFTAR ISI

(lanjutan)

III.4. <i>Conceptual Model</i>	22
III.5. Metode Simulasi Reservoir	22
III.5.1 <i>Black Oil Simulator</i>	22
III.5.2 <i>Compositional Simulator</i>	22
III.5.3 <i>Thermal Simulator</i>	23
III.6. Tahapan Dasar Simulasi Reservoir	23
III.6.1 Data Reservoir	23
III.6.2 Input Data.....	25
III.6.3 Inisialisasi Model Reservoir	25
III.6.4. <i>Forecasting</i> (Peramalan/Prediksi).....	25
BAB IV SIMULASI RESERVOIR <i>CONCEPTUAL MODEL</i>	26
IV.1 Prediksi dan Pengembangan Skenario CCUS	26
IV.1.1 <i>Development Strategies</i>	26
IV.1.2 Persebaran <i>Pressure</i>	27
IV.2. <i>CO₂ STORE DAN SHALE GAS RECOVERY</i>	40
BAB V PEMBAHASAN	47
BAB VI KESIMPULAN DAN SARAN.....	50
DAFTAR RUJUKAN	52