

INDEX OF PHOTOGRAPHS

CHAPTER - II

Plates - 1, 2 and 3 :

Photographs showing extensive grooving/ channeling effects and erosion/ corrosion marks on the internal surface of the carbon dioxide absorber wall 65

Plates - 4 and 5

Photographs showing corrosion at the circumferential welds and fillet welds of support ring brackets in the carbon dioxide absorber 66

CHAPTER - IV

Plate - 1 :

Cylindrical carbon steel specimen after exposure to GVSL solution without inhibitors 212

Plate - 2 :

Cylindrical carbon steel specimens after exposure to syn. GVSL solution with 0.1% antimony trioxide and 0.03% ferric ions and with 0.03% ferric ions only 213

Plate - 3 :

Cylindrical carbon steel specimens after exposure to syn. GVSL solution with 0.15% antimony trioxide and 0.03% ferric ions and with 0.03% ferric ions only 213

Plates - 4 and 5 :

Microstructure of the unexposed carbon steel surface 214

Plates - 6, 7 and 8 :

Microscopic view of the carbon steel surface exposed to uninhibited synthetic GVSL solution 215

Plates - 9, 10 and 11 :

Microscopic view of the carbon steel surface exposed to synthetic GVSL solution containing 0.1% antimony trioxide and 0.03% ferric ions 216

Plates - 12, 13 and 14 :

Microscopic view of the carbon steel surface exposed to synthetic GVSL solution containing 0.15% antimony trioxide and 0.03% ferric ions. 217