INDEX

Page numbers in italics refer to figures and illustrations.

accidents, offshore drilling. See safety, offshore drilling
active pit system, definition of, 109
Adair, Red, 167
Administration for Children and Families, 193
Administrative Procedure Act, 152
Agenda for Revitalizing Coastal Louisiana, 212
Alabama, effects of Macondo oil spill on, 131, 138, 140, 150, 153, 155, 172, 176–77, 185, 188, 278–79
Alaska, oil and gas industry in: Exxon Valdez spill, 36, 70, 130n, 132–33, 144, 189, 194, 211–12, 231–32; future of, 294, 299, 301–5; history of, 2, 31, 35–36, 40, 45, 46, 52, 63, 67, 78, 220, 301; recommendations for reforms in, 252, 253, 254, 261, 263n, 265
Alabama Natives, 194, 303
Alexander Kjelland (rig), 68–69
Allen, Thad, 136–39, 137, 147, 151, 156–57, 161, 164–67, 169
Alonso, Dan, 142
Amerada Hess Corporation, 227
American Chemistry Council, 233
American Exploration Company, 226
American Petroleum Institute (API), 30, 71, 225, 228–29, 241–42
Amoco, 32, 40, 43, 45, 221, 226–27. See also BP
Anadarko Petroleum, 2, 43, 48, 51, 90, 94, 227
Anderson, Jason, 5–6, 7–8, 17, 107, 109, 112–14
Andrus, Cecil, 62–63
annular preventers, for Macondo well, 93, 107, 109, 114, 274, 275
Apache Corporation, 227
Argo, 43, 45, 70
Arctic, oil and gas industry in, 35–36, 44, 250, 252, 253, 254, 262, 263n, 265, 294, 301–5. See also Alaska, oil and gas industry in
Arctic Council, 304
Arctic Offshore Oil and Gas Operation Guidelines, 304
Area Committees, 265–66, 268
Area Contingency Plans, 265–66, 268, 271
Argo, 227
Army Corps of Engineers, U.S., 154, 156–57, 169, 204, 206–08
Asian immigrant populations, in Gulf of Mexico region, 179, 192, 193
Atchafalaya River, 199, 204
Atlantic Richfield. See Arco
Atlantic site, 46–50
ATP Oil & Gas Corporation, 227
Audrey, Hurricane (1957), 25
Audubon Society, 141
Auger site, 23, 36, 38–40, 39, 42
Australia, offshore oil and gas industry in, 44, 224

Baker, James III, 221–22
Baker Hughes, 38, 44
Bankston (supply vessel), 8, 9, 12, 13, 14, 16–19, 130
barrier islands, along Gulf of Mexico coast, 154, 193–94, 199, 203, 206–07
beaches, effects of Macondo oil spill on, 155, 175–77, 185–91
Berger, Jonah, 188
berms, use of after Macondo oil spill, 151–57, 169; recommendations for reforms affecting, 265, 271
Bertone, Steve, 5, 9–11, 13–17
Betsy, Hurricane (1965), 27
Bhopal (India), chemical leak in, 231–34
BHP Billiton, 46, 51, 226–27
Bik, Holly, 177
birds, in Gulf of Mexico region, 141, 142, 143, 175–77, 181, 183
Birnbaum, Elizabeth, 151
Blanchard, Dean, 171
blowout preventer (BOP), 92; attempts to seal at Macondo well, 131–32, 137–38, 146, 149–50, 159–67, 159n, 253n, 273; and causes of Macondo well blowout, 115, 120, 121–22; engineering challenges of, 28, 49, 52; on Macondo well, 7, 13, 14, 19, 92–93, 103, 114–15, 121–22; recommendations for reforms affecting, 274–75; safety regulations for, 73–74, 152
Blue Water 1 (drilling barge), 23, 25
Boeing, 230
Bonnie, Tropical Storm (2010), 154
boom, use of after Macondo oil spill, 132, 140–41, 151–54, 153, 170, 177, 179

BP: and causes of Macondo well blowout, 90, 115–27, 125, 221; compensation of victims of Macondo well blowout and oil spill, 179, 185–86, 189, 193, 278, 283, 284, 287; containment initiatives after Macondo well blowout and oil spill, 241–43; corporate revenue of, 2, 284; and drilling of Macondo well, 2–4, 42, 82–85, 89–90, 92–115, 132, 273, 274; engineering innovations of, 31–32; expenditures on Macondo well blowout and oil spill response, 135n, 179, 184–85, 188, 189, 194, 238, 244, 278, 283, 284, 287; history of drilling in Gulf of Mexico, 23, 36–37, 40–41, 43, 45–53; lawsuits against after Macondo well blowout and oil spill, 279; response to Macondo well blowout and oil spill, 16–17, 130–70, 174, 184–85, 188, 189, 194, 272, 274; risk-management processes of, 216–21; and safety issues, 2, 6, 216–21, 224–25, 295

BP Deepwater Horizon Oil Budget: What Happened to the Oil?, 167–69, 167n, 168n

Brazil, offshore oil and gas industry in, 44

Breaux, John, 207

Brice-O’Hara, Sally, 136

Bromwich, Michael, 241

Brown, Douglas, 4, 9

Brown, Michael, 137

Brown, Stephen, 297

Brown & Root, 21, 24, 32

Browne, John, 45, 47

Browner, Carol, 161, 165, 167–68, 167n

Bullwinkle site, 33, 34, 36–38, 40

Bureau of Indian Affairs, 63

Bureau of Land Management, 26, 63, 76–77


Burkeen, Dale, 17

burning of surface oil, after Macondo oil spill, 143, 159, 168–69, 168n, 168

Bush, George H. W., 24, 67

Bush, George W., 52, 137

California, oil and gas industry in, 20, 23, 26, 28–29, 29, 31, 56, 58, 63, 67, 135, 181, 297, 301

Callon Petroleum Operating Company, 227

Camardelle, David, 151

Cameron International Corporation, 131

Camille, Hurricane (1969), 27

Campbell, Pat, 167

Canada, offshore oil and gas industry in, 69, 302

capping stack, 162–67

Carden, Stan, 11, 13, 15, 16

Carla, Hurricane (1961), 27

Carter, Jimmy, 59–63

casing, offshore well, 91, 95; and attempts to seal Macondo well after blowout, 158, 162; in Macondo well, 4, 92–99, 102–6, 113, 115; safety regulations for, 30, 43, 152
cement evaluation tools, definitions of, 102
cementing, in offshore wells, 91, 99; and attempts to seal Macondo well after blowout, 132, 167, 169; and causes of Macondo well blowout, 115–18, 125; in Macondo well, 1, 3–4, 7, 94, 96, 98–103; safety regulations for, 152, 228

Centers for Disease Control and Prevention, 141

centralizers, offshore well, 96; in Macondo well, 96–97, 116, 118, 123; safety regulations for, 77

C. F. Bean, 157

CGG Veritas, 44

Chaisson, Nathaniel, 102

chemical industry, safety issues in, 233

Chemical Safety Board, 219, 221–22

Chet Morrison Contractors, 44

Chevron: containment initiatives after Macondo well blowout and oil spill, 243–45; history of drilling in Gulf of Mexico, 21, 24, 29, 32, 42, 43, 46, 47, 50, 51, 84n; oil-spill response plans of, 133; and safety issues, 226–27

Chu, Steven, 138, 148–50, 148, 161–65, 253n
civil aviation, safety issues in, 229

Clark, Donald, 17, 109

Clean Gulf Associates, 30

Clean Water Act, 80, 84, 200, 211, 245, 265, 280
climatic change, 295, 298, 300, 305

Coalition to Restore Coastal Louisiana, 207

coastal and marine spatial planning, 201, 262–63, 281–82

Coastal Impact Assistance Program, 208

Coastal Studies Institute (Louisiana State University), 206

Coastal Wetlands, Planning, Protection and Restoration Act (1990), 207

Coast Guard, U.S.: recommendations for reforms in, 251, 256, 257, 266–74, 276; and regulation of offshore drilling, 62, 68n, 75–76, 301, 304; response to Macondo well blowout and oil spill, 17–19, 129–61, 163, 170

Coast Guard-Bureau of Ocean Energy Management, Regulation, and Enforcement Deepwater Horizon Joint Investigation Team, 130n
Coast 2050, 207
Cocales, Bret, 97, 116
cofferdam (containment dome), use of after Macondo oil spill, 145–46, 159
Cognac site, 23, 31–32
Commerce, Department of, 255
Commission on Fiscal Accountability of the Nation’s Energy Resources (1981–82), 63–64
Commission on Ocean Policy, U.S. (2004), 281
Concept Safety Evaluation program (Norway), 71
ConocoPhillips, 31, 34, 40, 42–43, 68–69, 84n, 133, 244-45
Constitution, and environmental protection, 57, 67
contracting, in offshore oil and gas industry: history of, 24, 37–38, 40, 43–44, 74; and liability issues, 245–46; recommendations for reforms in, 251–54; and safety issues, 221–22
Cook, Kevin, 157, 166
Cooper, Anderson, 139, 150, 157, 187
Cooper, George, 149
corals, in Gulf of Mexico, 174–75, 182, 183
Corexit (dispersant), 144
Costner, Kevin, 142
Council on Environmental Quality, 210, 260–62
Cox, Christopher, 234
crabs, in Gulf of Mexico, 175, 177–78, 186–87
Creole site, 21–22, 23
Crist, Charlie, 150, 151
Crone, Timothy, 167n
cuba, offshore oil and gas industry in, 254, 300
Curtis, Stephen, 8, 17, 109, 113–14

Danciger Oil & Refining Co., 2
dead zone. See hypoxia
DeepStar consortium, 38
Deepwater Horizon (rig), 1; blowout events of April 20, 8–19, 18, 88, 102–15; causes of blowout, 90, 115–27, 125; crew of, 1–6, 191, 198, 223; and drilling of Macondo well, 2–4, 53, 92–115; history of, 1–3, 23, 44, 51, 53; oil spill, 127, 129–70; safety issues on, 6, 223; sinking of, 55, 130–32. See also Macondo well
Deepwater Horizon MC252 Gulf Incident Oil Budget, 167–69, 168n
Deepwater Royalty Relief Act, 23, 42, 76
Defense, Department of, 183, 208, 255. See also Army Corps of Engineers, U.S.
Dekle, Scott, 187
Deltareas, 154
Dennis, Hurricane (2005), 48, 50
Denny, Patricia, 189
Department of Defense Appropriation Act of 2006, 208
departments, U.S. See specific departments under the first key term in their names (e.g., Interior, Department of the) Designed Engineering Representatives, 230, 234
Devon Energy, 47, 227
Diamond Offshore, 43
Dicky, Bob, 187
Discoverer Enterprise, 46, 49, 145, 159, 159
Discoverer Seven Seas, 33, 37
diverter system, definition of, 114
Dodd, Mark, 176
dolphins. See marine mammals
Dominion Exploration & Production, 225
Drake, Edwin, 296
Dresser Industries, 44
drilling terminology, definitions of, 91
drill pipe, 74, 91; in Macondo well, 4, 5, 6–7, 92–93, 104–08, 110–14, 111, 113, 120–21
Duplessis, Bonnie, 209
Duplessis, Clarence R., 209

370
East Cameron Partners, 227
economy, effects of Macondo oil spill on, 173–74, 179, 185–91, 209; compensatory damages related to, 174, 179, 185–86, 189, 193, 278, 283, 284, 287; fishing and seafood industry, 139–41, 163, 170, 171, 179, 185–86, 188, 193–94, 197, 209; health problems of local population, 191–95; local businesses, 155, 163; oil and gas industry, 151–52, 185–86, 197; ports of, 186, 197; recommendations for reforms related to, 275–82; tourism, 155, 177, 185–86, 188–91, 197
Effective Daily Recovery Capacity regulations, 270
Eisenhower, Dwight, 58
El Paso E&P Company, 227
emergency disconnect system, and Macondo well blowout, 13–15, 114–15
Endangered Species Act, 80, 84, 181
Energy, Department of, 59; recommendations for reforms in, 253, 253n, 264, 267, 270, 272; response to Macondo well blowout and oil spill, 148–50
Energy Information Administration, 302
Energy Partners, Ltd., 227
Energy policy: future of, 294–306; goal of energy independence, 56, 59–60, 294
Energy Resource Technology, 227
engineering: contracting for, 24, 44; for deepwater drilling, 2, 31–32, 35, 36–38, 53, 90–92, 94; of Mississippi River, 177, 194, 197, 204, 206, 210; recommendations for reforms in, 243, 269–70, 272–75; and response to Macondo well blowout and oil spill, 133–37, 143–50, 154, 156–62, 164-70
Eni US Operating Co., 227
environment, effects of Macondo oil spill on, 172–73, 173–95, 175, 176, 196–97, 202; deepwater oil plumes, 175, 181–82; marine ecosystems, 174–82; Natural Resource Damage Assessment, 182–85, 276; recommendations for reforms related to, 275–82; waste from response effort, 170; wildlife health, 139–43, 153–54, 174–82
Environmental Defense Fund, 187
Environmental Protection Agency (EPA), 235; recommendations for reforms in, 257, 262, 266, 267–72, 274, 278, 282; and regulation of offshore drilling, 68n, 219, 255; response to Macondo well blowout and oil spill, 133, 143–45, 160, 167n, 170, 187
environmental protection movement, 29–30, 33, 56, 58–60, 63, 79–85, 197–213
Environmental Studies Program (Department of the Interior), 59, 259, 263
equivalent circulating density (ECD), definition of, 94
erosion, in Gulf of Mexico region, 197–213, 205
Eureka (drillship), 27
explosions, history of in oil and gas industry, 8–19, 29–30, 69, 102–15, 217–20, 216, 220
ExxonMobil: containment initiatives after Macondo well blowout and oil spill, 240, 243–45; history of drilling in Gulf of Mexico, 25, 36, 40, 42, 42n, 45, 46, 84n; oil-spill response plans of, 133; Operations Integrity Management System (OIMS), 231–32; role in response to Macondo well blowout and oil spill, 164
Exxon Valdez (vessel), oil spill from, 36, 70, 130n, 132–33, 144, 189, 194, 211–12, 230, 232, 270, 277n, 280, 288
Exxon Valdez Oil Spill Trustee Council, 280
Exxon Valdez Trustee Council Science Panel, 211
Ezell, Randy, 5–8, 11, 15–16, 18, 112, 114
fracture pressure, definition of, 90
Frank's Casing Crew and Rental Tools, 44
Freeport McMoRan, 227

Gagliano, Jesse, 96–97, 101, 102
García Márquez, Gabriel, 53
Garwin, Richard, 149, 165
Gauthe, Sharon, 192
Gazprom (company), 300
geology, subsurface, 52–53; Lower Miocene deposits, 47; Lower Tertiary (Paleogene) deposits, 23, 47, 51, 52; at Macondo site, 2, 3, 89; Middle Miocene deposits, 3; role of salt in, 22, 24, 32–33, 39, 41–43, 45, 49, 52; technology for surveying, 27, 32–34, 37–38; Upper Jurassic deposits, 39
Geophysical Services Inc. (GSI), 37
Gervasio, Antonio, 12
Glasscock Drilling Company, 25
Global Industries, 44
Global Marine, 36, 44
GlobalSantaFe, 2
Glomar Challenger (drillship), 27
Gonzalez, Elian, 136
Gordon, Wayne, 163
GovernanceMetrics International, 231, 232n
government, role of in oil and gas industry. See regulation of oil and gas industry, federal and specific departments and agencies by name
Government Accountability Office, 261
Grangemouth Complex (BP), 218–19
Greater New Orleans, 191
Great Flood of 1927, 197, 204
Great Lakes, 263
Green Canyon, oil and gas drilling in, 40, 46–48
Greenland, offshore oil and gas industry in, 302
Guide, John, 4, 96, 97, 98, 99, 102, 116
Gulf Coast Claims Facility, 185–86, 189, 193, 283, 287
Gulf Coast Ecosystem Restoration Council, recommendation for, 280–81
Gulf Coast Ecosystem Restoration Science and Technology Program, recommendation for, 281
Gulf Coast Ecosystem Restoration Task Force, 210, 279
Gulf Island Fabricators, 44
Gulf of Mexico Alliance, 185
Gulf of Mexico Energy Security Act (2006), 208, 210
Gulf of Mexico Integrated Ocean Observing System, 282
Guns of Navarone, The, 162
Gustav, Hurricane (2008), 197–98, 203

Hafle, Mark, 2, 97
Haire, Chris, 109
Hall–Houston Oil Company, 226
Halliburton Company, 38, 44, 74; and causes of Macondo well blowout, 90, 115–18, 123–25, 125, 223; and cementing of Macondo well, 1, 2–4, 90, 94–103; and safety issues, 222–24, 295
Hanazlik, James, 130
Harrell, Jimmy, 4–5, 11, 13, 17, 92, 107
Hay, Mark, 19
Hayward, Tony, 135, 144, 150, 157, 159
health, effects of Macondo oil spill on human, 141, 144, 170, 174, 185–88, 190, 192, 191–95, 277–78
Health and Human Services, Department of, 141
Hecht, Michael, 191
Herrema Marine Contractors, 44
Helix Oil & Gas Corporation, 227
Helix Energy Solutions Group, 244–45
Herbst, Lars, 135, 157
Hess Corporation, 51
Hickel, Walter, 29
Hilda, Hurricane (1964), 27
Hite system, 110, 110n, 112
Holloway, Caleb, 113
Holstein site, 46–49
Homeland Security, Department of, 62, 131, 255. See also Coast Guard, U.S.
Hormuz, Straits of, 296
Houston, Oberon, 219
Houston Exploration Company, 226–27
Hsieh, Paul, 166
Humble Oil, 24, 27
Hunt Oil Company, 227
Hunter, Tom, 148, 149, 161–62, 165
Huntington, Hillard, 297
Hurricanes. See specific hurricanes by name (e.g., Katrina, Hurricane)
hypoxia, in Gulf of Mexico, 198–200
Hyundai Heavy Industries, 44

Ida, Hurricane (2009), 2, 92
Ike, Hurricane (2008), 198, 296
Incident Command Posts, 130–31. See also Unified Command
Inglis, Andy, 146
Injuries, offshore drilling. See safety, offshore drilling
Institute of Nuclear Power Operations (INPO), 234–42, 239n, 240n
Interagency Alternative Technology Assessment Program, 142
Interagency Ocean Policy Task Force, 262, 281
Interior, Department of the, 54; changes in after Macondo well blowout, 250; and environmental recovery and restoration of Gulf of Mexico, 181–83; history of regulation by, 29, 33, 55–85, 228–29, 239–240; recommendations for reforms in, 249–91, 304; response to Macondo well blowout and oil spill, 55, 78n, 131, 131n, 143, 145, 152, 181, 183. See also Minerals Management Service (MMS) and other specific agencies by name
International Association of Drilling Contractors (IADC), 72
International Organization for Standardization (ISO), 252, 304
International Regulators’ Forum, 252, 254
Iran: oil and gas industry in, 36, 45, 296; Revolution of 1979, 31, 63
Iraq, oil and gas industry in, 296
Ivan, Hurricane (2004), 50
Ixtoc oil spill, 225, 244

Jackson, Lisa, 145, 160–61, 167n
Jack 2 site, 23, 47
Johnfroe, Donald Jr., 192
Joint Oceanographic Institutions for Deep Earth Sampling project, 27
Jones, Gordon, 17
Jones Act, 142–43
J. Ray McDermott, 24, 31–32, 44
Junk shot, 148–49
Justice, Department of, 30, 287

Kaluza, Robert, 3, 6, 14, 98, 105, 107, 124
Kash, Don, 64–65
Katrina, Hurricane (2005), 50, 136–37, 145, 163, 191–93, 195, 198, 203, 206, 208–9, 212, 296
Keith, Joseph, 109, 112
Kelley, Mervick, 120
Kemp, Roy Wyatt, 17, 112
Keplinger, Tancy, 7, 11, 15, 16
Kermac 16 site, 23, 24
Kerr-McGee Oil Industries, 22, 24, 48, 227
Kick detection, in Macondo well, 91, 109–14, 120–21
Kleppinger, Karl Dale, Jr., 17
Kuchta, Curt, 4–5, 7–8, 13, 14–17
Kuwait, oil fires in during first Gulf War, 149

Lambert, Lee, 107
Landrieu, Mary, 150, 152, 204
Landrieu, Mitch, 150, 151
Landry, Alwin J., 12, 14
Landry, Mary, 130-31, 133-34, 134, 143
Lawrence Berkeley National Laboratory, 148
Leasing and Environmental Science Office, recommendation for, 258–59, 261, 262, 264
leasing of offshore drilling sites, federal, 61; and environmental considerations, 29, 59–63, 79–82; history of, 24, 26, 31, 33, 52–52, 58–63; recommendations for reforms in, 249–91; royalties from, 56, 58, 63–67, 64, 76–78, 295
Lee, Alvin, 156
Leno, Jay, 149
Levees, on Mississippi River, 197, 204, 206, 208, 210
Lili, Hurricane (2002), 50
Lindsay, Sheryl, 155
LLOG Exploration Offshore, Inc., 227
Lockdown sleeve, on Macondo well, 120, 123, 127
Louisiana Act 6 (1989), 207
Louisiana Coastal Area Comprehensive Coastwide Ecosystem Restoration report, 207
Louisiana Coastal Area Ecosystem Restoration Program, 207
Louisiana Coastal Protection and Restoration Authority, 208
Louisiana Department of Health and Hospitals, 140
Louisiana Department of Wildlife and Fisheries, 140
Louisiana-Mississippi Gulf Coast Ecosystem Restoration Working Group, 210
Louisiana National Guard, 133
Louisiana Office of Coastal Protection and Restoration, 154
Louisiana State University Charity Hospital, 155
Lyder, Jane, 181
Lynch, Richard, 146, 160

Mabus, Ray, 210, 211, 279–80
MacDonald, Ian, 186, 187
Mad Dog site, 46–49
Magnuson-Stevens Fishery Conservation and Management Act, 80, 81, 83–84
mangroves, effects of Macondo oil spill on, 175, 177, 186
Mansfield, Brent, 10–11, 17
Manti Operating Company, 227
Manuel, Blair, 17
Marathon Oil Corporation, 51
Marinas (rig), 2, 92–93
Marine Board (National Research Council), 70–71
marine ecosystems, effects of Macondo oil spill on, 174–78, 180–182
Marine Mammal Commission, 181
Marine Mammal Protection Act, 80
marine mammals: in Arctic oil regions, 303; in Gulf of Mexico, 174–75, 178, 180, 181, 183
Marine Protected Areas, 282
Mariner Energy, 51, 227
Marine Spill Response Corporation, 132–33, 243
Marine Well Containment Company (MWCC), 243–45
marshes: effects of Macondo oil spill on, 139, 143, 154, 174–75, 177, 181, 186, 202; and environmental recovery and restoration of Gulf of Mexico, 202, 205–8
MARS site, 36–37, 40, 45, 50
Martinez, Dennis, 17
Massachusetts, coastal and marine spatial planning in, 201
Matrix Oil & Gas, 227
Matterhorn (rig), 19
Max Chouest (vessel), 19
Mckay, Douglas, 58
McPherson, Marcia, 147–49, 161, 165, 274
McNeil, Gregory, 12, 112
media coverage of Macondo well blowout and oil spill: effects of on food safety concerns and tourism, 187–88; initial, 129–30; of response to oil spill, 139, 141, 142–43, 142n, 149, 150, 167–68
Meinhart, Paul, 15
Melanon, Charlie, 150
Merritt, Carolyn W., 219
Meshkati, Najmedin, 223

Mars (rig), 2, 92–93
Mars site, 36–37, 40, 45, 50
Martinez, Dennis, 17
Massachusetts, coastal and marine spatial planning in, 201
Matrix Oil & Gas, 227
Matterhorn (rig), 19
Max Chouest (vessel), 19
Mckay, Douglas, 58
McPherson, Marcia, 147–49, 161, 165, 274
McNeil, Gregory, 12, 112
media coverage of Macondo well blowout and oil spill: effects of on food safety concerns and tourism, 187–88; initial, 129–30; of response to oil spill, 139, 141, 142–43, 142n, 149, 150, 167–68
Meinhart, Paul, 15
Melanon, Charlie, 150
Merritt, Carolyn W., 219
Meshkati, Najmedin, 223
Mexico, oil and gas industry in, 21, 254, 300
microbes. See oil-degrading microbes
Minerals Management Service (MMS), 54, 73, 75; and causes of Macondo well blowout, 126–27; corruption and
Macondo well blowout and oil spill, 19, 131, 131n, 133, 135–36, 145, 149–50, 152, 157, 161; revenue collection role of, 55–57, 63–67, 64, 76–78, 254–55; and safety issues, 67–76, 75. See also Bureau of Ocean Energy Management, Regulation, and Enforcement (BOEMRE)
Mississippi, 208; effects of Macondo oil spill on, 131, 138, 140, 170, 177, 187, 191, 193
Mississippi Canyon, oil and gas drilling in, 2, 3, 31, 46, 47–48, 53, 89
Mississippi River: agricultural pollution in, 198–200; effects of Macondo oil spill on, 177, 178; environmental recovery and restoration of, 197–213; geology of, 22, 27, 202, 204; in history of oil and gas industry, 22, 24, 27, 31, 37, 50; re-engineering of, 194, 197, 204, 206, 210
Mississippi River and Tributaries Project, 204
Mississippi River Gulf of Mexico Watershed Nutrient Task Force, 200
Mississippi River Gulf Outlet, 206
M-I SWACO, 3
MOEX, 2, 3, 90, 94
Montara (platform), 224
Mobil Oil. See ExxonMobil
Mr. Charlie (drilling barge), 23, 24
Mr. Gus (drilling barge), 25
mud, use of in offshore wells, 91, 105, 106; and causes of Macondo well blowout, 115, 120–24, 125; in Macondo well, 7, 8, 92–94, 96, 98–99, 103–07, 109–14; in top kill and static kill efforts at Macondo well, 149–50, 158, 166–67
muflats, effects of Macondo oil spill on, 175, 177
Munich Re, 246
Murphy Exploration & Production Company, 227
Murray, Chad, 11, 13, 15, 16

Na Kika project, 46, 48
Nalco, 144
Napolitano, Janet, 131, 136
National Academy of Engineering, 223, 253
National Academy of Sciences, 264, 296, 303
National Commission on the BP Deepwater Horizon Oil Spill and Offshore Drilling, 151, 192, 225, 249–50, 291, 295, 305–6
National Domestic Violence Hotline, 193
National Energy Act (1978), 59
National Environmental Policy Act (NEPA) (1970), 29, 56, 59, 60, 62, 80–82; and Macondo well blowout, 81n, 82–84, 83n; recommendations for reforms in, 258–62, 265, 267, 289
National Incident Commander, 136–37, 141, 143, 156, 267, 268, 270
National Marine Fisheries Service, 140, 141
National Marine Sanctuaries, 80, 81, 282
National Ocean Council, 201, 276, 281–82
National Oceanic and Atmospheric Administration (NOAA); and environmental recovery and restoration of Gulf of 
Mexico, 201, 212; recommendations for reforms in, 253, 256, 257, 262–68, 270–71, 274, 282; and regulation of 
offshore drilling, 86n, 81, 84, 84n; response to Macondo well blowout and oil spill, 131, 133, 140–41, 143, 145, 153, 157, 168–70, 178, 181, 183, 187, 189
National Oceanographic Partnership Program, 264
National Research Council, 298
National Response Framework, 278
National Response Team, 131, 141, 268, 269, 272, 274
National Science Foundation, 28, 184, 276
National Wildlife Federation, 141
Natural Resource Damage Assessment, 182–85, 186, 264, 276–77, 276n
Natural Resources Revenue, Office of (ONRR), recommendation for, 256–60
Naval Petroleum Reserve, 58, 296
Navy, U.S., 22–24, 58, 228–30, 234
negative-pressure tests, 105; and causes of Macondo well blowout, 118, 119, 121, 123–24, 125, 126; on Macondo well, 4–7, 104–09, 112; safety regulations for, 228
Neptune site, 23, 43
Newfield Exploration Company, 51, 226
Nguyen, Ve Van, 179
Nigeria, oil and gas industry in, 36, 45
Nixon, Richard M., 29, 31, 59, 63, 135
NOAA. See National Oceanic and Atmospheric Administration (NOAA)
NOAA Catch Share policy (2010), 201
Norcen Explorer, 226
North Sea, oil and gas industry in, 23, 31, 34, 38, 45, 68–69, 71–72, 124, 218, 225, 252
Norway, offshore oil and gas industry in, 68–69, 71, 201, 218, 302
Nuclear Electric Insurance Limited (NEIL), 237
Nuclear Regulatory Commission (NRC), 235–37, 239, 253n, 258
Nungesser, Billy, 150–51, 151, 154, 156–57
Obama, Barack: address on Macondo well blowout and oil spill, 173, 212; commissioning of studies after Macondo well blowout and oil spill, 249, 279–80, 291; creation of BP escrow fund, 185; environmental policies of, 201, 210, 212, 262–63, 281; plan to expand offshore leasing, 53, 84n, 301; response to Macondo well blowout and oil spill, 131, 136, 148, 150–51, 151, 156, 162, 191
O’Bryan, Patrick, 5–8, 14, 105
Occidental Petroleum, 69, 219
Occupational Health and Safety Administration (OSHA), 68n, 141, 144, 234
occupational safety, definition of, 218
Ocean engineering, 3, 38
Ocean Endeavor (rig), 19
Ocean Energy, 226
Ocean Energy Safety Institute, 272
Ocean Foundation, 181
Ocean Ranger (rig), 69
OCS Group, 3
Odum, Marvin, 233
Office of Management and Budget (OMB), 72, 210, 251
Office of Natural Resources Revenue, 35
offshore drilling. See deepwater drilling; oil and gas industry, offshore, and specific aspects of the offshore oil and gas industry by name
Offshore Drilling and Exploration Company, 24
Offshore Operators Committee, 28, 30, 72
Offshore Safety and Anti-Pollution Equipment Committee, 30
Offshore Safety Authority, recommendation for, 256, 257–58, 289–90
Offshore Technology Conference, 30, 52
Ognedal, Magne, 69, 218
oil and gas industry, offshore: corporate safety culture of, 215–47; future of, 293–306; history of, 21, 21–53, 55–85; recommendations for reforms in, 215–16, 239–45, 249–91, 293, 306; regulatory history of, 55–85; and supply and demand for oil in U.S. history, 22, 25, 31–33, 34, 46, 52, 63, 293–306. See also specific companies and aspects of the industry by name
Oil Budget report, 167–69, 168n
oil-degrading microbes, 174
Oil Pollution Act (1990), 70, 80, 83–84, 130n, 132, 182–85, 191, 212, 232, 243; recommendations for reforms in, 268–70, 276, 279, 283, 286–87
Oil Spill Liability Trust Fund, 134, 135n, 141, 211, 283–87, 304
Oil Spill Response Plans, 83–84
One Hundred Years of Solitude (García Márquez), 53
OPEC oil embargo (1973), 31, 56, 296
Orca Energy (Dunhill), 227
Oregon, offshore oil and gas industry in, 26, 67, 297
Oryx Energy, 43, 226
Outer Continental Shelf Safety Oversight Board, 78–79, 78n, 82
Overton, Keith, 191
oysters, in Gulf of Mexico, 140, 163, 176, 178–79, 186–87

Paradis, Joseph, 130
Parish Presidents (Louisiana), 139–40, 154
Patzek, Tad, 229
Pennex, 254, 300
Pennsylvania, oil and gas industry in, 296
Pennzoil, 32
Perdido site, 51
Index

Perry, Harriet, 178
Petrobras, 44, 51, 226
Petroleum Geo-Services, 44
Philadelphia Electric, 238
Phillips Petroleum Company. See ConocoPhillips
Pillow, Travis, 187
pipelines, oil and gas, 25, 30, 35, 49, 296, 302
Pipeline Safety Act, 256
Piper Alpha (platform), 23, 69–70, 217, 227
Placid Oil, 34
Pleasant, Christopher, 6, 13, 19, 114–15
Pompano (U.S. Coast Guard cutter), 17, 130
pore pressure, definition of, 90
positive-pressure tests, on Macondo well, 4, 104, 105
President's Council of Advisors in Science and Technology, 298
President's Council on Environmental Quality, 81n, 83, 84n
Price-Anderson Act, 237
Primary Care Access Stabilization Grants, 195
process safety, definition of, 218
Project Independence, 31
Project Mohole, 26
Prudhoe Bay pipeline (BP), 2, 222
Pure Oil, 21

Q4000 (vessel), 159–60, 159

R&B Falcon, 44
Ragen, Tim, 181
Rainey, Dave, 45
Ramblin’ Wreck (boat), 10, 17
rams, in offshore well blowout preventer, 52, 74: and causes of Macondo well blowout, 122; in drilling of Macondo well, 92–93, 114; and oil spill after Macondo well blowout, 131, 137–38, 149, 275
Randolph, Charlotte, 150
Rapid Response Research (RAPID) Program, 184
Reagan, Ronald, 63, 66
Regional Citizens’ Advisory Councils, 268–69
Regional Contingency Plans, 265
Regional Response Teams, 143, 145, 265, 268, 271
regulation of oil and gas industry, federal: and causes of Macondo well blowout, 126–27; changes in after Macondo well blowout and oil spill, 128, 145–59; comparisons, 124–25, 128, 143, 182, 186, 246; compared to other nations, 69–72; compared to other risky industries, 229–41; conflicting priorities in, 28, 55–60, 65, 68–76, 80–82, 200–201, 228–29, 254–55; congressional role in, 56, 58–60, 62–63, 65–68, 61, 71, 72, 76, 79–82, 85, 269, 298, 301, 304, 306; Constitutional authority for, 57, 67; definition of lands under federal control, 58, 239; failure to respond to changes in industry, 72–74, 228, 239;历史 of, 29, 55–85; and industry self-policing, 234–35, 237–42; liability issues, 243–46; recommendations for reforms in, 215–16, 239–45, 249–91, 254–55; and specific regulatory agencies by name
relief wells, at Macondo site, 132, 135, 158, 159, 166–67, 169
remotely operated vehicles (ROV), 38; in drilling of Macondo well, 3, 93; in response to Macondo well blowout, 19, 131–32, 146, 164
renewable energy sources, 256–59, 264, 294–95
Rep'sol (company), 300
Resource and Conservation Recovery Act, 106–7
Responsible Care initiative (American Chemistry Council), 233
Revette, Dewey, 5, 17, 107–9, 112–13
Rhode Island, coastal and marine spatial planning in, 201
Rickover, Hyman, 230
Riley, Bob, 150, 153
riser, offshore well: engineering challenges of, 37, 49, 51; and Macondo well, 7, 14, 18, 103–11, 103n, 114, 115, 120, 121, 124; and oil spill at Macondo well, 132–33, 132, 145–47, 159, 159n, 164
Riser Insertion Tube Tool, 146
risk management, offshore oil and gas industry, 217-47, 251-54. See also safety, offshore drilling
Rita, Hurricane (2005), 50, 136–37, 145, 197–98, 208, 212, 296
Robichaux, Brenda Dardar, 193, 203
Rooster Petroleum, 227
Roshko, Shane, 17, 112
Royal Dutch Shell. See Shell Oil
rupture disks, in Macondo well, 158–59, 162, 274
Russia, offshore oil and gas industry in, 302
safety, offshore drilling: accident and injury rates, 3, 27-28, 30, 55, 69, 217-28, 226, 228, 232, 251, 254; changes in regulation of after Macondo well blowout and oil spill, 55, 72, 227, 243; compared to other risky industries, 229-42; conflict with revenue generation, 56, 254-55; corporate culture and, 215–47; with deepwater drilling, 35-36, 90–91; in hurricanes, 22, 25, 27, 50-51; inspections for, 68–76, 75, 78–79; insurance for, 245-46; recommendations for reforms in, 215–17, 239-45, 249-91, 293–95; regulation of, 28–30, 56, 68–76. See also explosions; oil spills
Safety and Environmental Enforcement, Bureau of, 55
Safety and Environmental Management Program (SEMP), 71–72, 242
Safety and Environmental Management System (SEMS), 228, 251, 253, 257
safety case approach, 68–69, 227, 252, 252n, 258
safety culture, definition of, 218
salt, role of in offshore oil and gas reservoirs, 22, 24, 32–33, 39, 41–43, 45, 49, 52
Salvin, Bill, 147
Sandell, Micah, 9, 12
Sandia National Laboratories, 149
Santa Barbara Channel, oil spill in (1969), 23, 26, 28–29, 29, 31, 56, 58-59, 63, 135, 181
Saucer, Mike, 135
Saudi Arabia, oil and gas industry in, 21
Schlumberger, 3–4, 38, 44, 103, 118, 129
Scire, Grace, 192
Sears, Richard, 223
Securities and Exchange Commission (SEC), 234
Sedco-Forex, 44
September 11, 2001, terrorist attacks of, 75, 136
September 11th Victim Compensation Fund, 185, 287
Sepulvado, Ronald, 3
Shaw Group, 157
Shell America (vessel), 33
Shell Oil, 301–2; containment initiatives after Macondo well blowout and oil spill, 243-45; history of drilling in Gulf of Mexico, 21, 23, 24, 25–26, 30–30, 31–34, 36–41, 43, 48, 51, 84n; oil-spill response plans of, 133; role in response to Macondo well blowout and oil spill, 164; and safety issues, 226, 231–33
Shivers, Bradley, 10
shoe track, in Macondo well, 97–98, 97, 102, 120, 121
shrimp, in Gulf of Mexico, 140, 144, 175, 179, 186-87
Sierra Club, 65
Sims, David, 4–8, 14, 17, 19, 97
Skidmore, Ross, 4
skimming, use of after Macondo oil spill, 129, 132, 140, 143, 154, 161, 167n, 168, 169
Slocum, Alexander, 149
Smit Salvage Americas, 130
Sole, Mike, 153
Sonat Offshore Drilling, 33, 37
spacer, in Macondo well, 7, 7n, 106–9, 106, 111–12, 119, 121
Sperry Sun, 109–11, 110n, 112, 121
Spill of National Significance designation, 136–37, 155, 267-68, 278–79, 283, 287
Sport Fish Restoration and Boating Trust Fund, 207
Stafford Act (1988), 138, 268–69
Standard Oil of California, 21
Standard Oil of New Jersey, 24
Stanislaus, Mathy, 161
State On-Scene Coordinators, 138
static kill, 166–68
Statoil, 44, 47, 51
Stone Energy Corporation, 227
Strickland, Tom, 136
Submerged Lands Act (1953), 23, 58
SUBSAFE system, 230–31, 234
Substance Abuse and Mental Health Administration, 194
Sunseri, Al, 163
Sunseri, Blake, 163
Sunseri, Sal, 163

Superior Energy Services, 167
Superior Oil, 21
Suttles, Doug, 133, 134, 145, 146, 159, 164

Tabler, Vincent, 102
Taffaro, Craig, 140
Tana Oil and Gas Corporation, 226
Taylor, Sharon, 142
Technip, 44
temporary abandonment procedures, 4n, 77, 103; at Macondo well, 4, 6, 103–6, 109, 119–20, 123, 126–27
Tenneco, 32
Texaco, 21, 27, 38
Texas: effects of Macondo oil spill on, 177; oil and gas industry in, 2, 21–53, 58, 217–20, 297
Texas City refinery (BP), 2, 218–22
Thierens, Harry, 138
3-D seismic imaging, for offshore drilling, 27, 33, 37–38, 42–45
Three Mile Island meltdown (1979), 229, 235, 239, 240n
Thunder Horse site, 23, 46–47, 49
Tiber site, 51
Tillerson, Rex, 232, 240
Tooms, Paul, 150, 161
top kill, 148–50, 158–59, 161–62, 166
Total (oil company), 43, 44, 52
tourism, effects of Macondo oil spill on, 155, 185–86, 188–91, 197
Trahan, Buddy, 5, 7, 11, 13, 17
Trans-Alaska Pipeline, 35, 302
Transocean, 44, 74; and causes of Macondo well blowout, 90, 115–27, 124, 223; and drilling of Macondo well, 2–4, 90, 92–115 response to Macondo well blowout and oil spill, 130–31, 137–38; and safety issues, 223–23, 295
Transportation, Department of, 68n, 255
tribal communities, in Gulf of Mexico region, 193–94
Tri-Union Development Corporation, 227
Truman, Harry, 58, 296, 298
Trustees for Natural Resources, 277, 282
tuna, in Gulf of Mexico, 83n, 175, 178, 180
Turner, Eugene, 177
turtles, in Gulf of Mexico, 175, 180–81, 180, 183, 184

Ultra-Deepwater and Unconventional Natural Gas and Other Petroleum Resources Program, 253
Unified Area Command, 131, 135, 139, 161, 181
Unified Command, 131–33, 135, 138–41, 143–46, 149, 154
Union of Concerned Scientists, 239n
Union Oil Company, 28, 32, 58, 227
Union Pacific Resources Company, 227
United Houma Nation, 193–94, 203
United Kingdom, offshore oil and gas industry in, 69–72, 218–19, 228–29
United Kingdom Health and Safety Executive, 218–19
U.S. departments and services. See specific departments and services under the first key term in their names (e.g., Coast
guard, U.S.; Interior, Department of the)
USS Thresher (submarine), 229, 230, 231
Utilities Solid Wastes Activities Group, 235

Valdez, oil spill from See Exxon Valdez (vessel), oil spill from
Van Oord, 154
Vastar Resources, 226
Vessels of Opportunity program, 129, 140–41, 170, 287
Vidrine, Don, 6, 8, 13, 107–8, 112
Virginia, offshore oil and gas industry in, 301
Vitter, David, 150, 156

W & T Offshore, 227
Walter Oil & Gas Corporation, 227
Walz, Gregory, 97
Washington, offshore oil and gas industry in, 26, 67, 297
Water Resources Development Act (2007), 207
Watson, James, 160, 162
Watt, James, 56, 63–67, 66, 76
Weatherford International, 96, 98
Weise, Adam, 17, 112
Well Integrity Team, 162, 164
Wereley, Steve, 147
West Africa, offshore oil and gas industry in, 44
Western-Geco, 44
wetlands, in Gulf of Mexico region, 173, 175, 194, 197–208, 210–13
whales. See marine mammals
Wheeler, Wyman, 5–6, 11, 15–16, 107
wildlife, in Gulf of Mexico. See specific types of wildlife by name
Wild Well Control, 167
Williams, Mike, 9, 10, 15–16
Winslow, Daun, 5, 6, 7, 12–14, 17, 19
Woods Hole Oceanographic Institution, 146–47, 147n
workforce, offshore oil and gas industry: effects of Macondo oil spill on, 152, 185; logistical challenges of, 3, 22, 34;
and safety issues, 3, 6, 28, 30, 69, 152, 215–29, 232–34, 239–42, 251; whistleblowers in, 254
Worley Parsons, 44
wrack zone, 177

Young, David, 16, 112–13

Zane Barnes (vessel), 36
Zapata Offshore Company, 24
Zukunft, Paul, 161, 170