Negotiating the Law of the Sea

James K. Sebenius

Lessons in the art and science of reaching agreement

Negotiating the Law of the Sea

James K. Sebenius

HARVARD UNIVERSITY PRESS

Cambridge, Massachusetts, and London, England 1984

Copyright ©1984 by the President and Fellows of Harvard College All rights reserved Printed in the United States of America 10 9 8 7 6 5 4 3 2 1

This book is printed on acid-free paper, and its binding materials have been chosen for strength and durability.

Library of Congress Cataloging in Publication Data

Sebenius, James K., 1953-

Negotiating the Law of the Sea.

(Harvard economic studies; v. 154) Bibliography: p.

Includes index.

1. United Nations Conference on the Law of the Sea

(3rd: 1973-1982: New York, N.Y., etc.) 2. Maritime

law. 3. Maritime law - United States. I. Title.

II. Series JX4411.S425 1984 341.4'5 83-20163

ISBN 0-674-60686-8 (alk. paper)

HARVARD ECONOMIC STUDIES Volume 154

The studies in this series are published under the direction of the Department of Economics of Harvard University. The department does not assume responsibility for the views expressed.

Acknowledgments

Trying to acknowledge the contributions of the people who have made this effort possible, worthwhile, and enjoyable is a humbling task. At the same time, it gives me the pleasure of thanking those who encouraged my participation in the Law of the Sea negotiations, those who guided my academic preparation, those who shared these times with me as friends and colleagues, and those from all these groups who pushed me toward a synthesis of analysis and experience.

I am indebted to many participants in the Third United Nations Conference on the Law of the Sea. In particular, I would like to thank George Aldrich, Lance Antrim, William Brewer, Jens Evensen, members of the United States delegation, and the NG2 team for rewarding associations in conference and out of conference. It has been an extreme privilege and pleasure to work with Tommy Koh. By example and through the opportunities and advice he has offered, Elliot Richardson has influenced me greatly; for these and for his other generosities, he has my abiding respect and gratitude.

I have been fortunate in having an extraordinary group of academic advisers, colleagues, and friends. To Ronald Howard, A. Michael Spence, and Richard Zeckhauser go my thanks for particular insights and encouragement. To Richard G. Darman, J. D. Nyhart, and Robert W. White I express my appreciation. I am happy to record a special debt to John Lintner, whose recent death made me see even more clearly how rare were his qualities of intellect and warm support. As will be no surprise to those who know him, Howard Raiffa was a prince of a thesis adviser and, in innumerable ways since, has had a central impact on my development. David Lax has helped to shape this study from its inception in the RIAS offices to its completion at the Kennedy School.

As a friend and collaborator, he has my thanks. For discussions, help, and support in many ways, I owe much to Evelyn Brodkin, Deborah Dupire, Ann Hollick, Carol Jones, Lee Kimball, Peter Merrill, and William Ury.

Particular parts of this study bear the special mark of others with whom I have the pleasure to work. I had extensive discussions with Mati L. Pal on the subjects of Section 1.3. I am grateful to Raymond Vernon for his editorial prowess and, in particular, to the Journal of Policy Analysis and Management for permission to use in Chapter 3 a section of my article "The Computer as Mediator: Law of the Sea and Beyond," Journal of Policy Analysis and Management 1, no. 1 (1981):77-95 (copyright 1981 by the Association for Public Policy Analysis and Management; used by permission of John Wiley and Sons). I thank the Institute for Contemporary Studies along with my LOS colleague and coauthor, Lance Antrim, for permission to use part of our essay "Incentives for Ocean Mining under the Convention" from Law of the Sea: U.S. Policy Dilemma, ed. Bernard H. Oxman, David D. Caron, and Charles O. Buderi (San Francisco: ICS Press, 1983), as a portion of Section 4.5.2.1. Students from Raiffa's Competitive Decision Making course will recognize in Chapter 5 a version of his admonition to "exploit differences." Working with Herman Leonard on a related paper was a pleasure that has greatly sharpened my understanding of those ideas. The imprint of his mind and pen are on several of the better paragraphs in Sections 5.0 and 5.1. Mary O'Keefe prodded us to recognize that even identical people can gain from trade when nonconvexities are present. I thank my coauthor Peter Stan and the Bell Journal of Economics for permission to use in Section 5.2.5 a modified version of our joint article "Risk Spreading Properties of Common Tax and Contract Instruments," Bell Journal of Economics 13, no. 2 (1982):555-560 (copyright 1982 by the American Telephone and Telegraph Company). Similar appreciation goes to John Geanakoplos and the Journal of the American Statistical Association for permission to use in Section 5.2.6 some work that likewise began as part of this study and evolved into a coauthored article, "Don't Bet on It: Contingent Agreements with Asymmetric Information," Journal of the American Statistical Association 78, no. 382 (1983):424-426. Finally, I thank the editors of International Organization for their help in developing the content and expression of Chapter 6 from its original form and for their kind permission to use a version of the resulting article, "Negotiation Arithmetic: Adding and Subtracting Issues and Parties," International Organization 37, no. 2 (1983):281-316.

I appreciate the efforts of Holly Grano, who typed many of the equations; of Joanna Callenbach and Marsha Slomowitz, who prepared the figures; and of Tom Peters, who helped with word processing. Thomas Weeks deserves particular thanks for his work on the index. Duncan Bauer's typing expertise, good cheer, and indefatigable presence at the computer center made each stage of this effort vastly easier and more pleasant than otherwise would have been possible.

I gratefully acknowledge the support of NSF Grant SER76-17502 to the RIAS program at Harvard, where I was a Fellow, and a generous grant that was awarded on the basis of the Doctoral Dissertation Competition of the Division of Research at the Harvard Business School.

Finally, I thank the members of my sometimes skeptical but always loving and supportive family. To them, and in particular to the memory of my grandmother, Martha Prescott Kimble, I dedicate this work.

Negotiating the Law of the Sea

Where order in variety we see And where, though things differ, all agree.

—Alexander Pope "Windsor Forest"

An ancient philosopher once said that friendship between men is nothing but a commerce in which each seeks his own interest. The same is even truer of the liaisons and treaties which bind one sovereign to another, for there is no durable treaty which is not founded on reciprocal advantage, and indeed a treaty which does not satisfy this condition is no treaty at all, and is apt to contain the seeds of its own dissolution. Thus, the great secret of negotiation is to bring out prominently the common advantage to both sides and to link these advantages that they may appear equally balanced to both parties. For this purpose when negotiations are on foot between two sovereigns, one the greater and the other the less, the more powerful of those two should make the first advance, and even undertake a large outlay of money to bring about the union of interests with his lesser neighbor . . . The secret of negotiations is to harmonize the interests of the parties concerned.

- François de Callières
On the Manner of Negotiating with Princes

Contents

| | | 20 |
|--------|---------|-----|
| Introd | duction | - 1 |

PART ONE

Summary 23

Agreement in the Small, Disagreement in the Large: Financial Arrangements and the Law of the Sea Conference

Background: Of Nodules, Navies, and Negotiation 7
Setting the Stage 7
Whence the Law of the Sea Conference? 11
Conference Organization and Procedures 12
Financial Arrangements in the Seabed Regime of the LOS Treaty 13

2 Course of the Financial Negotiations 24

Themes in the Chronology 24
The 1977 New York Session 24
The 1978 Geneva Session 26
The 1978 New York Session 30
The 1979 Geneva Session 34
The 1979 New York Session and Beyond 37
Appendix 1: The Detailed Financial Arrangements Proposals 40
Appendix 2: Description of the MIT Model 45

3 Elements of Agreement 49

Diverse Factors in Agreement 49
Use of an Outside Model 50
Agreement as the Result of Differences 55
Combining Issues 61
Summary 69

4 Disagreement in the Large: Explanation and Evaluation 71

A Framework for Negotiation Analysis 71
Evolution of the U.S. Negotiating Strategy 74
The Shape of the Final LOS Treaty 78
The Central Trade: Navigation and Nodules 80
What Happened? Explaining the Reagan Decision 81
Evaluating the Decision to Reject the Treaty. 84
Summary and Conclusions 106

PART TWO

Agreement in Negotiation: General Propositions

5 Differences and Joint Gains 113

Beyond Common Ground for Negotiation 113 Elements of a Differences Orientation 117 More Formal Difference Analysis 144

6 Negotiation Arithmetic: Adding and Subtracting Issues and Parties 182

A Common Point of Departure 182
Adding and Subtracting Issues 184
Adding and Subtracting Parties 207
Summary and Conclusions 214

Notes 219

Bibliography 234

Index 245

Introduction

This book is built around an interpretive account of a negotiation in which I took an active part. Drawing on my experience with the Law of the Sea (LOS) conference, I first offer the financial aspects of these deliberations as a case that suggests some propositions about crafting agreement in complex bargaining. Then, through a negotiation-analytic lens, I probe the larger U.S. strategy from its early steps to the 1982 rejection of the treaty. Finally, in a more formal style, I try to generalize some of these ideas. Beyond LOS chronicle and analysis, however, my real quest is for systematic insights into the means for shaping good negotiated agreements.

The extended LOS example is not written from the standpoint of a neutral observer; at the outset I should declare my involvement. My association with the LOS conference began in the summer of 1977, after a year as a Stanford Fellow, assigned to the administrator of the National Oceanic and Atmospheric Administration. I then joined the U.S. Law of the Sea delegation, led by Ambassador Elliot L. Richardson. Shortly after entering the Business Economics program at Harvard the next fall, I began to work with a project at the Massachusetts Institute of Technology that sought to model a deep ocean mining system. Over the next three years, I continued with the U.S. delegation and attended most of the negotiating sessions. I soon started to serve in an informal staff capacity to Ambassador T. T. B. Koh of Singapore, who chaired the LOS Negotiating Group on Financial Arrangements. The group's deliberations constitute a particular focus of this book. From this triple vantage point—that of U.S. delegation member, that of Negotiating Group staff, and that of liaison between the MIT modeling effort and these other two bodies - I had the opportunity to

participate in the negotiation and to relate it to the more theoretical approach I was absorbing in Cambridge. The result was my doctoral dissertation, woven from the twin strands of academic reflection and LOS experience. Although analytic and editorial generations separate this study from its ancestor, I have tried to transmit these same strands.

The task confronting the Third United Nations Conference on the Law of the Sea in 1974 was no less than the design of the legal regime to govern more than 70 percent of the earth's surface. The negotiators had to hammer out rules on subjects as contentious as navigational freedoms, territorial bounds, fishing rights, offshore hydrocarbons, marine pollution, and a potentially vast mineral resource in the deep ocean, so-called manganese nodules, unanimously declared to be the "common heritage of mankind." By 1978 the negotiators had reached agreement on more than 90 percent of the draft treaty articles. Seven critical sets of issues became the negotiating focus of the conference. Among these hard-core questions, upon whose resolution the fate of the treaty was expected to turn, were the financial aspects of a sort of mega-mineral contract between "mankind" and future seabed miners. A linked issue concerned the funding of a new international entity that would mine directly on behalf of the international community.

Two years of complex bargaining finally overcame the impasse on these "financial arrangements." Not only was an agreement worked out, but, remarkably, the delegates from more than 150 countries produced a text on the financial terms of contracts that in many ways is more sophisticated than most existing bilaterally negotiated mineral contracts on land. I was intrigued by the substance of this innovative outcome, by the novel procedure for reaching it, by the personalities involved, by the puzzle of how a U.S.-built analytic model could play a prominent role in these politicized deliberations, and by myriad other aspects of the agreement. The controversial U.S. decision not to sign the treaty two years later prompted me to review the origins of the conference and to evaluate the overall U.S. negotiating strategy.

It would be an understatement to say that my participation in this intense process suggested promising directions for the formal analysis of complex bargaining situations. At the same time, an emerging cluster of ideas, informally referred to as "negotiation analysis," with its origins in decision analysis, game theory, and the economics of industrial organization, proved useful to my day-to-day work in the negotiations. The mutual conditioning of academic analysis and conference participation should be evident in the emphases I have chosen.

Part I contains my interpretation of the financial portion of the LOS negotiations. Its background, parties, and issues constitute Chapter 1.

Chapter 2 is a chronology of the financial negotiations from their emergence as a central issue through their resolution. Chapter 3 draws together some of the major factors behind the negotiated agreement. These ideas, although then in much rougher form, were among those that helped to guide my actions at the conference. From agreement "in the small" on financial questions, Chapter 4 seeks to explain and evaluate the U.S. disagreement "in the large" with the entire treaty.

Part II extends and generalizes some of these factors beyond their initial LOS setting. Chapter 5 examines the proposition that negotiated agreements often consist of dovetailed differences among the participants. It investigates potentially useful differences in such areas as values and probabilistic beliefs, as well as attitudes toward risk and time. Emphasis is on the identification of what might be called structural aspects of potential agreements. The analysis deals very little with the means, either procedural or interpersonal, of realizing these potential bargains. The discussion commences with a nontechnical introduction to the main ideas of a "differences" orientation; it concludes by developing the theoretical underpinnings of much of the previous analysis. Mathematically framed results are presented on randomization and betting on the basis of different probabilities, competitive revelation of probabilities, risk sharing, indirect transfer of asymmetrically held information, risk properties of taxation instruments, and methods of blending differences in time preference. These ideas may have broader economic application than just to the study of negotiations. All the discussions requiring more than elementary algebraic or graphic reasoning are segregated in Section 5.2.

Chapter 6 is an investigation of the proposition that the parties and issues themselves, rather than being "givens," are often important choice variables in negotiation. This chapter argues that moves to manipulate issues or parties can be considered useful classes of tactics for negotiation analysis. Simple techniques can relate some of their means, ends, and outcomes to one another. I examine numerous effects of such moves on the zone of possible agreement and the process of reaching it.

I intend Parts I and II to be strongly complementary, but they may be read independently. Within Part I those readers interested in the particulars of the financial negotiations may wish to concentrate on Chapters 1 and 2 and to pass quickly over Chapter 3. Those more interested in general aspects of reaching agreement in multilateral negotiations might skim Chapters 1 and 2, which are largely narrative, and most profitably focus their attention on the propositions of Chapter 3. Chapter 4 deals much more with the broad substance of U.S.

Law of the Sea policy, explained and evaluated, however, in simple terms congenial to analysts of negotiation. The two chapters (5 and 6) of Part II are concerned with general aspects of negotiation. They may be read independently of each other, and, for those less interested in LOS matters, Part II may be read without reference to Part I.

The chapters of this study are implicitly connected by their focus on negotiation and by the examples from the LOS conference that are scattered throughout. In order to make each major section self-contained, however, I have not hesitated to repeat explanations or examples if they seemed relevant in more than one place.

PART ONE

Agreement in the Small, Disagreement in the Large: Financial Arrangements and the Law of the Sea Conference