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R E P O R T

Meetings of the delegations of the Working Group on the problem of "Prevention of Sea and River Pollution During Well Drilling, Exploitation of Oil Fields and Pipeline Oil Transportation" (Marine Pollution from Non-Shipping Sources)

(Moscow, Baku, Ufa, September 29-October 7, 1973)

a subcommittee of the US-USSR Joint Committee on Cooperation in the Field of Environmental Protection.

According to plans for the realization of Soviet-American cooperation in the field of environmental protection and the mutual agreement of the working group of the USSR and USA on the problem: "Prevention of sea and river pollution during well drilling, exploitation of oil fields, and pipeline oil transportation", on 29 September - October 7, 1973, a delegation of American specialists in the field of environmental protection from pollution during well drilling, exploitation of oil fields, and pipeline oil transportation visited the USSR.

In their work the delegations took into consideration the agreement prepared at the meeting of the delegations signed on May 22, 1973 in New Orleans (USA).

The American delegation was headed by Mr. ^{William} A. Radlinski, Associate Director, US Geological Survey, and Chairman of the American working group.

The Soviet delegation was headed by Dr. Ali Ovsat Karayev, member of the collegium of the Ministry of the Oil Industry, and Chairman of the Soviet part of the working group.

A list of the members of the delegations is attached (See Appendix).

Marine Pollution from Non-Shipping Sources

I

At Moscow, the USA delegation was met by P.I.Zelianov, Deputy Chief of the Technical-Economic Administration of the Ministry of the Oil Industry of the USSR, N.K.Krems, Deputy Chief of the Foreign Relations Administration of the Ministry of the Oil Industry of the USSR, B.A.Kuvshinnikov, Counselor to the Staff of the Soviet part of the Joint Committee, Oil Industry of the USSR, E.A.Makhmudbekov, Section Chief in the Technical-Economic Administration, all members of the Soviet part of the working group, with whom the program for the visit of the U.S. delegation was clarified.

At the same time the delegation from the U.S. working group was given the text of a report by the Chairman of the Soviet part of the working group, Dr. A.-O.K.Karayev, on prospects for development of the petroleum industry in the USSR and on protection of the environment during exploitation of oil fields. Exchange of preliminary opinions was also begun.

On September 30, 1973, the delegation from the U.S. working group with representatives of the Soviet part, was taken to Baku, where at "Gipromorneft" Institute, reports of Soviet specialists on the work being carried out in the prevention of marine pollution during drilling and exploitation of offshore oil fields, as well as on the organization and methods of carrying out exploration, drilling and exploitation in the Caspian Sea were presented, including:

- "Present State and Prospects of Oil Production in the Caspian Sea" by Professor N.B.Babayev.

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- " Key Trends of Scientific Research Aimed at Protecting the Caspian Sea against Pollution while Developing Off-Shore Oil and Gas Fields " by Dr.I.A. Iskenderov.

- "Marine Pollution Control Problems in Drilling" by Dr. N.A. Aliyev.

- "Treatment of Waste Water used for Flooding in the Off-Shore Fields of the Caspian Sea" by Dr. S.E.Manukyan.

The reports in Russian were given to the American delegation.

During their stay in Baku, the U.S. and Soviet specialists made a technical excursion to the off-shore field at Neftyanyye Kamni.

After being briefed on the above mentioned operations, which are being carried out in the Caspian Sea by the Ministry of the Oil Industry of the USSR, discussion of questions related to the development of a mutual program on prevention of pollution of seas and rivers during well drilling, exploitation of oil fields and pipeline oil transportation was continued at "Gipromorneft" Institute.

II

Continuing their visit, the American delegation visited the Tuymazy oil field at Oktyabr'skiy, Bashkirian ASSR, on October 5 and 6, 1973, where they were given briefings on the principal types of work there in the protection on the environment during exploitation of oil fields located on land, which included the collecting, treating, and use of oil field waste waters in water-flooding systems of petroleum pay

The delegation was also presented with reports by specialists of "Bashneft" Ob'yedineniye, and the Scientific research institute, as follows:

- "Principal problems in treatment and injection of waste water into petroleum pay zones", by Professor G.A. Babalyan.

- "Results of using waste water in a water-flooding system," by A.G. Akhmetshin, Mining Engineer.

- "Qualitative requirements for water used in flooding, petroleum pay zones," by Dr. U.M. Baykov.

- "Methods of decreasing the volume of fresh water required for the technological processes of oil production," by Dr. U.M. Baykov.

- "Methods and means of treating waste water," by Professor G.A. Babalyan.

Texts of the reports, in English and Russian, were given to the American delegation.

In Ufa, the U.S. delegation visited BashNIPIneft Institute, where they received information from the Director of the Institute, Professor G.A. Babalyan, concerning the work of the institute and from the chief of the water-flooding technology section, Dr. U.M. Baykov, concerning the work of the laboratory for treatment of waste water used in water-flooding.

III

On October 7, 1973 after visiting Baku, Ufa, and Oktyabrskiy, the U.S. delegation returned to Moscow, where talks were continued with the head of the Soviet part of the working group, Dr. A.K. Karayev, relative to future discussions of the main types of joint work.

As a result of their visits , briefings, and discussions on the state of affairs at oil fields of "Kaspmorneft" and "Bashneft" Ob"edineniye, joint discussion of the above mentioned reports , and talks with Dr. A.K. Karayev, both parts of the working group considered it useful to accomplish mutual cooperation relative to this problem along the following lines:

VI-I "Organizational, technical, and technological measures and special technical facilities used for preventing marine pollution", including:

- A. Control of solid particles (such as sand) in oil and gas drilling and exploitation of oil and gas wells.
- B. Containment, removal, and clean-up of oil spills.
- C. Methods and programs for training working personnel in proper methods of work.
- D. Protection of oil-field equipment and pipelines from corrosion.
- E. Well control and prevention of pollution from blow-outs.

VI-II "Techniques and technology of collecting , treating, and pipeline transportation of oil at offshore oil fields to prevent marine pollution", including:

- A. Waste water treatment and disposal.
- B. Monitoring systems for pipeline flow.

In accordance with the above mentioned topics both sides considered in necessary to prepare working programs for discussion and approval. These programs are to be accomplished by both sides, beginning in 1974. These programs can provide

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for various forms of cooperation in such fields as joint projects, exchange of information, organization of scientific symposia and seminars and the exchange of specialist trainees.

In the course of approving the working programs, both sides will exchange technical information on the above mentioned topics.

The size and composition of visiting delegations will be limited to individuals who can effectively participate in the work to be specified in an agenda approved by the co-chairman prior to making final arrangements for trips. The host country will initiate the agenda. Succeeding visits, alternately to the USSR and the USA, will be paired and the size of the delegations of working groups will be on a one-for-one basis.

Leaders of the working groups will coordinate the working programs beforehand by correspondence.

The final discussion and approval of the working programs will take place in the second quarter of 1974 during the visit of a delegation of the Soviet part of the working group to the USA.

During the talks, preliminary agreement was reached, that the Soviet part of the working group will visit the USA in the second quarter of 1974 (8 specialists for a 15 day visit) and the US part of the working group will come to the Soviet Union in the third quarter of 1974.

Talks of the delegations of both parts of the working group were carried out in a spirit of mutual understanding and business-like cooperation.

During their visit to Baku and Ufa, the American delegation was received by the Chief of "Kaspmorneft " Ob'yedineniye, Prof. A.B. Suleymanov and the Chief of "Bashneft" Ob'yedineniye, Engineer Ye. V. Stolyanov.

The Chairman of the U.S. delegation expresses his complete satisfaction with the warm and friendly reception accorded his delegation during their visit to the USSR.

Approved subject to final approval of the "USSR-US Joint Committee on Cooperation in the Field of Environmental Protection" done in Moscow, October 7, 1973, in two copies, in English and Russian , both of which are considered identical.

Chairman of the American part
of the working group on the problem
of "Prevention of Sea and River
Pollution During Well Drilling,
Exploitation of Oil Fields, and
Pipeline Transportation of Oil "
of the Soviet-American Commission
for Protection of the Environment

William A. Radlinski

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and River Pollution During
Well Drilling , Exploitation of
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Soviet-American Commission for
Protection of the Environment

Dr. A.K. Karayev
Dr. A.K. Karayev.

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List of the Delegation of the USSR

- A.K. Karayev - Doctor, Chairman of the Soviet part of the Working group
 - N.K. Krems - Deputy Chief of the Foreign Relations Administration, Ministry of the Oil Industry of the USSR
 - P.I. Chelpanov - Deputy Chief of the Technical Economic Administration, Ministry of the Oil Industry of the USSR.
 - E.A. Makhmudbekov - Scientific Secretary of the Soviet part of the Working group
 - W.N. Samarskiy - Section Chief, Ministry of the Oil Industry of the USSR
 - L.A. Pelevin - Deputy Director, VNIISPTneft Institute
 - A.B. Suleymanov - Professor, Chief of "Kaspmorneft" Ob'yedineniye.
 - N.B. Babayev - Professor, Director of "Gipromorneft" Institute
 - B.A. Kuvshinnikov - Councilor to the Staff of the Soviet part of the Joint Soviet-American Committee.
 - I.A. Iskenderov - Doctor, Section Chief "Gipromorneft" Institute
 - G.A. Babayan¹ - Professor, Director of "Bash NIPIneft" Institute.
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List of the American Delegation

- W.A. Radlinski - Associate Director, U.S. Geological Survey; Chairman of the American Delegation.
- R.B. Krahl - U.S. Geological Survey, Chief of the Branch of Marine Oil and Gas Operations.
- H.A. Oden - Assistant Conservation Manager, Western Region, U.S. Geological Survey.
- L.C. Soileau - President of the California Co. Division of Chevron Oil Company.
- A.V. Laborde - President of the Ocean Drilling and Exploration Company "ODECO".
- W.M. Marshall - Chairman of the Offshore Operators Committee and Offshore Production Manager, Shell Oil Company.
- D. Alverson - Geologist, U.S. Geological Survey
- T.A. Collins - District Manager, Placid Oil Company and Vice-Chairman Offshore Operators Committee

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