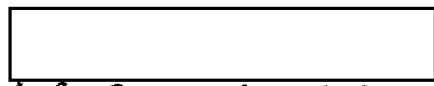


CIA/BGI PN 64.2436
11 February 1969

MEMORANDUM FOR: Mr. Joseph Goodwin, Assistant to the Director
SUBJECT : Bibliography on Arctic Oil and Gas

1. In response to your recent request of DD/OBGI, there is attached a selective bibliography of atlases, books, maps and articles on oil and gas in the Arctic that we have compiled with the assistance of OER. The bibliography includes references to all lands around the Arctic basin; emphasis is placed, however, on coverage of the Soviet Arctic. There are some references to untranslated articles in Russian where the article was judged to be exceptionally valuable.

2. A number of base maps and an unclassified map on Soviet petroleum resources are also attached, for retention.



Chief, Geography Division
Basic and Geographic Intelligence

Attachment:
As stated



2/11/69 per/TLB

10 February 1969

SELECTED BIBLIOGRAPHY ON
OIL AND GAS IN THE ARCTIC

1. *"Advances in Prospecting and Exploration for Gas," Gazovaya Promyshlennost' (Gas Industry), No. 1, Jan 1968, pp. 13-18. Detailed description of USSR natural gas reserves with particular emphasis given to new Siberian gas discoveries.
2. Alaska, Better-Known Mineral Deposits, Possible Petroleum Provinces, map, scale: 1:5,800,000, US Department of the Interior, Geological Survey, Report for the Year 1966, Juneau, 1967. Shows shaded areas for possible oil provinces and symbols for oil and gas fields.
3. Arctic Bibliography, Arctic Institute of North America, 13 volumes, one volume published about every other year. Abstracts of scientific literature on the Arctic and sub-Arctic are indexed by subject and country; Vol. 12 and 13 contain pertinent listings under "Petroleum".
4. "Arctic Oil Hunt Now On," Petroleum Press Service, Vol. XXXV, No. 1, Jan 1968, pp. 8-12. Useful recent survey of oil exploration efforts in Canadian Arctic Islands.
5. Armstrong, Terence, "Oil and Gas in the Soviet Arctic," The Polar Record, Vol. 11, No. 73, Jan 1963, pp. 431-434. Includes a good condensed history of oil and gas development in the Soviet Arctic.
6. Atlas Razvitiya Khozyaystva i Kul'tury SSR (Atlas of the Development of the Economy and Culture of the USSR), pp. 10-11, 17, 23-25, 50, 120-121, 140-141; Moscow, 1967 (in Russian). Data on maps is several years old but still valuable.

* All items marked with an asterisk have been obtained from the periodical Review of Sino-Soviet Oil, which contains translations from Russian publications. Inquiries about this periodical may be directed to Oil Review, Inc., Box 5615, Preston King Station, Arlington, Virginia 22205.

7. Atlas SSR (Atlas of the USSR), pp. 74-75, 122, 133; Moscow, 1962 (in Russian). Somewhat dated; maps show locations and distribution of oil and natural gas.
8. Bokserman, Yu. I., Puti Razvitiya Novoy Tekhniki v Gazovoy Promyshlennosti (Paths Toward the Development of New Techniques in the Gas Industry), Moscow, 1964, 312 pages (in Russian). Best volume available on development and status of USSR gas industry to 1964.
9. Bokserman, Yu. I., "Siberian Gas," Soviet Union, No. 12 (225), 1968, pp. 24-27. Highlights Soviet use of large diameter pipelines and the richness of recent gas discoveries in Western Siberia. Also contains some interesting statistics on the total length of gas pipelines.
10. Campbell, Robert W., The Economics of Soviet Oil and Gas, published for Resources for the Future, Inc. by The Johns Hopkins Press, Baltimore, 1968. Provides detailed description of all phases of USSR oil and gas industry with special consideration given to current and future production costs. Comprehensive bibliography is of special interest.
11. Chapelle, J. and S. Ketchion, URSS Second Producteur de Petrole du Monde, Paris, 1963, 314 pages (in French). Contains many detailed diagrams of USSR oil and gas regions.
12. "Developing Oil and Gas Deposits in the Komi ASSR," Ekonomicheskaya Gazeta (The Economic Newspaper), No. 40, Moscow, Oct 1966, p. 5. Translation in JPRS^{1/} 39184, 20 Dec 1966. Gives details of new fields in the Komi ASSR.
13. Chernykh, A. B., Neftyanaya i Gazovaya Promyshlennost' SSSR (Oil and Gas Industry of the USSR), Moscow, 1964, 132 pages (in Russian). Somewhat dated, but provides good overall treatment of USSR oil and gas development.
14. *Development of the Fuels Base of Regions of the USSR, A.E. Probst (Ed.), Moscow, 1968, selected pages. Provides useful information on oil field development in different regions of USSR.

^{1/} JPRS (Joint Publication Research Service) publications can be purchased through the Clearinghouse for Federal Scientific and Technical Information, Springfield, Virginia 22151.

15. Ebel, Robert E., The Petroleum Industry of the Soviet Union, Washington, 1961, 167 pages. A comprehensive study of all phases of the Soviet petroleum industry with emphasis on production and drilling research techniques.
16. "Gas Condensate Found in Polar Region Above Arkhangel'sk," Izvestiya, 12 Jan 1967, p. 4 (in Russian). An unusual discovery.
17. "Gas From Siberia," Petroleum Press Service, Vol. XXXV, No. 5, May 1968, pp. 167-170. A good, comprehensive article.
18. *"Gas in the Komi ASSR," Geologiya Nefti i Gaza (Geology of Oil and Gas), No. 11, Nov 1968, p. 10. Summarizes gas industry prospects in a promising region of northwestern USSR.
19. "Gas in the Soviet Union -- 1967," World Petroleum, Vol. 39, No. 4, New York, Apr 1968, pp. 28-32. Emphasis on gas pipeline development; some production figures provided for 1966-67.
20. "The Great Oilfields of the Tyumen'," Nauka i Zhizn' (Science and Life), Vol. 3, 1966 (in Russian). Interesting article presenting plans and prospects for Tyumen' oil region.
21. "Humble Challenges Northwest Passage," Oil and Gas Journal, Vol. 66, No. 52, 23 Dec 1968, pp. 30-32. Concise article on a current undertaking which could have far-reaching implications.
22. International Petroleum Encyclopedia 1969, The Petroleum Publishing Co., Tulsa: 1968, pp. 90-96, includes 3 Maps. Data current through 1967; maps are good, showing fields, refineries and pipelines; text gives a good general picture.
23. "USSR Holds First Place in Explored Gas Reserves," Izvestiya, 13 Jan 1968, p. 1 (in Russian). Presents current Soviet thinking regarding USSR natural gas reserves.
24. Kortunov, A. K., Gazovaya Promyshlennost' SSSR (Gas Industry of the USSR), Moscow, 1967 (in Russian). A comprehensive work on the gas industry; has good maps.
25. *"The Messoyakha-Noril'sk Gas Pipeline," Stroitelstvo Truboprovodov (Pipeline Construction), No. 11, Nov 1968, pp. 10-12. USSR pipeline construction magazine provides description of gas pipeline under construction beyond the Arctic Circle in Western Siberia.

26. Mestorozhdeniya Poleznykh Iskopayemykh SSSR (Deposits of Useful Minerals of the USSR), map scale: 1:5,000,000, Moscow, 1967 (in Russian). Includes general distribution of oil and natural gas producing fields.
27. Mineral'nyye Resursy SSSR (Mineral Resources of the USSR), map, scale: 1:8,000,000, Moscow, 1967 (in Russian). Includes general distribution of oil and natural gas producing fields.
28. Nagy, Jenó, "Oil Exploration in Spitsbergen," The Polar Record, Vol. 12, No. 81, Sep 1965, pp. 703-708. Discusses oil prospects and exploration activity in Spitsbergen.
29. "Natural Resources in the North of the Tyumen' Oblast'," Ekonomicheskaya Gazeta (Economic Newspaper), No. 44, 3 Nov 1965, p. 35 (in Russian). Summary of petroleum development in Tyumen' area. Includes map of oil and gas deposits.
30. *"New Gas and Gas Condensate Deposits," Neftyanik, (Oil Worker), No. 9, Sep 1968, pp. 8-10. A discussion of new USSR gas deposits that concentrates on recent finds in northern Tyumen' region.
31. "On the Paths to Siberian Oil," Pravda, Moscow, 11 Oct 1968, p. 2 (Condensed text translation available in The Current Digest of the Soviet Press, Vol. XX, No. 42, 6 Nov 1968). A current discussion on the problems of developing Siberian oil.
32. *"Oil and Gas of the Komi ASSR," Ekonomicheskaya Gazeta (Economic Newspaper), Oct 1966, p. 5 (in Russian). Good summary of a promising oil and gas region; sketch map of major oil and gas fields included.
33. Petroleum Intelligence Weekly, 48 West 48th St., New York, 10036. Interesting current articles on the world petroleum scene.
34. Pratt, Wallace E. and Dorothy Good (Eds), World Geography of Petroleum, American Geographical Society, London, 1950, 464 pages. Chapter 7, North America, pp. 130-159, Chapter 10, USSR, pp. 230-240, Chapter 14, USSR, pp. 308-319. Although dated, this text provides a useful treatment of petroleum development in the USSR and North America. Chapter 14 deals with oil in the polar areas and includes a polar projection map.

35. *"From the Depths of the Arctic," Pravda, 22 Jul 1968, p. 1 (in Russian). Summarizes current developments and production goals for Tyumen' Oblast' with special emphasis given to desirability of large diameter pipelines.
36. Razvitiye Khimicheskoy Promyshlennosti SSSR, (Development of the Chemical Industry of the USSR), map, scale: 1:8,000,000, Moscow, 1967 (in Russian). Shows general picture of the oil and natural gas pipelines.
37. *"Resources of the West Siberian Lowlands," Neftyanik (Oil Worker), No. 10, Oct 1968, p. 21. Brief summary of pipeline plans for region along with estimates of reserves and projected 1980 crude oil production.
38. "Russian Offshore Output Ailing," Offshore, Vol. 28, No. 12, Nov 1968, Houston, Texas, pp. 37-40, 79-80. Summary of USSR offshore production progress. Article concentrates almost entirely on Soviet Caspian Sea efforts. Comparisons made with US efforts.
39. "Russians Find Oil above Arctic Circle; Get Far-North Gas," Oil and Gas Journal, 19 Aug 1968, p. 42, 109. Gives concise summation of Russian oil and gas finds above Arctic Circle; locational diagram included.
40. "Russ Zero In On Trans-Siberian Line," Oil and Gas Journal, Vol. 66, No. 18, 29 Apr 1968, pp. 48-49. Gives facts on this important planned pipeline; discusses other lines and fields.
41. "Samot-Lor Oil Deposit in Western Siberia," Izvestiya, Moscow, 18 Jul 1968, p. 5. Translation in JPRS 46270, 23 Aug 1968. Article gives detail on specific deposit.
42. "Siberian Discoveries Improve Russia's Natural Gas Reserves," World Petroleum, Vol. 39, No. 6, Jun 1968, New York, pp. 57-60. Excellent summary of gas developments with emphasis on new Siberian fields. Includes map showing oil and gas fields, pipelines, and refineries in the USSR at the end of 1967.
43. "Siberian Giant Joins Oil's Top Rank," Oil and Gas Journal, 19 Aug 1968, p. 109. Reviews Soviet reports on latest large oil deposit located in Ob' river area within West Siberian petroleum region. According to Soviets, this is largest Ob' oil deposit yet found.

44. "Soviets Bank On 'Third Baku'," Oil and Gas Journal, 11 Apr 1966, pp. 63-66. Gives Soviet plans for developing petroleum resources of Western Siberia. Map shows existing and projected oil and gas pipelines tapping new deposits.
45. "Soviets Finish Far-North Line - 2 Years Late," Oil and Gas Journal, Vol. 66, No. 49, 2 Dec 1968, p. 30. Small article which emphasizes the problems of Arctic operations; has a good photograph.
46. *"The Transmission Gas Pipeline Ukhta-Torzhok," Stroitelstvo Truboprovodov (Pipeline Construction), No. 4, Apr 1967, pp. 6-10. Comprehensive report on a major pipeline under construction from northern Tyumen' region to Leningrad area. Includes diagrams of route alignment.
47. "Treasure in the North?," Petroleum Press Service, Vol. XXXV, No. 12, Dec 1968, London, pp. 444-448. Good overall survey of oil prospects in Arctic area.
48. *"Tyumen' Oblast," Gazovaya Promyshlennost' (Gas Industry), No. 11, 1968, Soviet gas industry journal provides capsule summary of Tyumen' oil and gas region production present and planned.
49. Uspenskay, N. Yu. and Z.A. Tabasaranskiy, Nefte-Gazonosnyye Provintskiy SSSR (Oil-Gas Provinces of the USSR), Moscow, 1966), 494 pages (in Russian). Extremely detailed geological description of major oil and gas regions. Diagrams of primary petroleum regions included.
50. *"Oil and Gas of the Arctic Ocean," Vyshka, 29 Mar 1967, p. 2. Article gives current Soviet opinion on prospects for offshore drilling in Arctic ocean to north of Tyumen' fields.
51. *"The Working of Oil Deposits in Western Siberia," Neftepromyslovoye Delo (Oil Field Economy), No. 7, Aug 1968, pp. 17-19. Provides concise summary of physical qualities of Western Siberian oil deposits.
52. USSR Petroleum Resources, 1958, (CIA Map #27617, Feb 1959), scale: 1:15,000,000. An 11-year-old map showing geologic provinces, sedimentary basins, and petroleum producing areas in the USSR.

53. "Where Russia Produces Its Gas," Oil and Gas Journal, Vol. 66, No. 9, 26 Feb 1968, scale: 1:15,000,000. Very schematic, but includes regional production record.
54. World Oil, Vol. 167, No. 3, Houston, Texas, 15 Aug 1968. Annual international outlook issue provides good summaries of oil development in USSR, Alaska, and Canada.
55. World Petroleum Report, Vol. XIV, 1968, New York, 140 pages. Canada, p. 37, USA, p. 40, USSR, p. 138. Annual review of international oil operations. Concise summaries of exploration, production and activities given. Developments in major geographic regions also covered.