

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s); and to import such byproduct and source material. This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee		In accordance with application received December 27, 1983
1. The Western Company of North America Western Petroleum Services		3. License number 42-01512-01 is amended in its entirety to read as follows:
2. 6100 Western Place P. O. Box 186 Fort Worth, Texas 76101		4. Expiration date May 31, 1990
		5. Docket or Reference No. 030-06397
6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license
A. Iodine-131	A. Any	A. 500 millicuries total
B. Iridium-192	B. Any	B. 700 millicuries
C. Iron-59	C. Nails	C. 10 millicuries
D. Cesium-137	D. Sealed sources (Gulf Nuclear Model CS-2 or Gamma Industries Model CS-1000)	D. Not to exceed 50 millicuries per source
E. Cesium-137	E. Sealed sources (Texas Nuclear Model 570-57157C)	E. Not to exceed 200 millicuries per source

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9. Authorized use:

- A. and B. For use in tracer studies in oil and gas wells.
- C. For use as markers in plugs pumped down hole in oil and gas well-casing pipe.
- D. For use in Western Company's custom densiometer source holders for cement slurry measurements.
- E. For use in Texas Nuclear Model 5190 densiometer for sand slurry measurements.

CONDITIONS

- 10. A. Licensed material may be used and stored at the branch offices located in the non-Agreement States listed in the licensee's letter dated October 25, 1984. The licensee shall notify USNRC, Region IV, Nuclear Materials Safety Section, 611 Ryan Plaza Drive, Suite 1000, Arlington, Texas 76011, of the opening of additional branch offices or the closing of existing branch offices in non-Agreement States within 7 days thereafter.
- B. Licensed material shall be used only at temporary job sites of the licensee anywhere in the United States where the Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.
- 11. The licensee shall comply with the provisions of Title 10, Chapter 1, Code of Federal Regulations, Part 19, "Notices, Instructions and Reports to Workers; Inspections" and Part 20, "Standards for Protection Against Radiation."

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12. Licensed material shall be used by, or under the supervision and in the physical presence of, individuals who have completed the Radiation Consultants, Inc. training program and have been designated by Robert I. Slaughter, Radiation Protection Officer.
13. A. (1) Each sealed source containing licensed material, other than hydrogen-3, with a half-life greater than 30 days and in any form other than gas shall be tested for leakage and/or contamination at intervals not to exceed 6 months. In the absence of a certificate from a transferor indicating that a test has been made within 6 months prior to the transfer, a sealed source received from another person shall not be put into use until tested.
- (2) The periodic leak test required by this condition does not apply to sealed sources that are stored and not being used. The sources excepted from this test shall be tested for leakage prior to any use or transfer to another person unless they have been leak tested within 5 months prior to the date of use or transfer.
- B. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surfaces of the device in which the sealed source is permanently mounted or stored on which one might expect contamination to accumulate. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the Commission.
- C. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Commission regulations. A report shall be filed within 5 days of the test with the U. S. Nuclear Regulatory Commission, Region IV, 611 Ryan Plaza Dr., Suite 1000, Arlington, Texas 76011, describing the equipment involved, the test results, and the corrective action taken.

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- D. The licensee is authorized to collect leak test samples in accordance with the procedures described in the licensee's letter dated December 27, 1983, for analysis by Radiation Consultants, Inc. Alternatively, leak test samples may be collected and/or analyzed by other persons specifically authorized by the Commission or an Agreement State to perform such services.
14. Installation, relocation, removal from service, maintenance, repair, and initial radiation survey of devices containing licensed material and installation, replacement, and disposal of sealed sources containing licensed material used in devices shall be performed only by persons specifically authorized by the Commission or an Agreement State to perform such services.
 15. Sealed sources containing licensed material shall not be opened or removed from their respective source holders by the licensee.
 16. The licensee shall conduct a physical inventory every 6 months to account for all sealed sources received and possessed under the license. The records of the inventories shall be maintained for 2 years from the date of the inventory for inspection by the Commission, and shall include the quantities and kinds of byproduct material, manufacturer's name and model numbers, location of sealed sources and the date of the inventory.
 17. The licensee may transport licensed material or deliver licensed material to a carrier for transport in accordance with the provisions of Title 10, Code of Federal Regulations, Part 71, "Packaging and Transportation of Radioactive Material."
 18. Except as specifically provided otherwise by this license, the licensee shall possess and use licensed material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in applications dated March 30, 1978, August 8, 1979, August 11, 1981, August 13, 1982; application received April 3, 1978; and letters dated July 18, 1978, July 21, 1978, October 27, 1978, November 29, 1979, February 1, 1983, March 8, 1983, September 21, 1984, October 25, 1984, April 27, 1984, May 18, 1984, and March 8, 1985. The Nuclear Regulatory Commission's regulations shall govern the licensee's statements in applications or letters, unless the statements are more restrictive than the regulations.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Original Signed By
Jack E. Whitten

By

Nuclear Materials Safety Section
Region IV
Arlington, Texas 76011

Date

MAY 13 1985

Official Record Copy

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