

## MATERIALS LICENSE

Amendment No. 03

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). 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

1. American Logging &amp; Perforating, Inc.

2. P. O. Box 1874  
Woodward, Oklahoma 73802In accordance with letter dated  
June 15, 19873. License number 35-19868-01 is amended in  
its entirety to read as follows:

4. Expiration date January 31, 1992

5. Docket or  
Reference No. 030-194476. Byproduct, source, and/or  
special nuclear material7. Chemical and/or physical  
form8. Maximum amount that licensee  
may possess at any one time  
under this license

A. Americium-241

A. Sealed neutron sources  
(Gulf Nuclear Model  
NEEI-AmBe-71-1 or  
AmBe-71-2A)A. Not to exceed 3  
curies per source

B. Iodine-131

B. Any

B. 150 millicuries

C. Iridium-192

C. Any

C. 150 millicuries

## 9. Authorized use:

A. For use in well logging of oil and gas wells.

B. and C. For use in tracer studies of oil and gas wells.

## CONDITIONS

10. Licensed material may be used at American Logging & Perforating, Inc., N. 48th and Highway 270, Woodward, Oklahoma, and at temporary job sites of the licensee anywhere in the United States where the U. S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.

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**MATERIALS LICENSE**  
SUPPLEMENTARY SHEET

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Docket or Reference number

030-19447

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11. Licensed material shall be used by, or under the supervision and in the physical presence of, Larry K. Sunderland or individuals who have been trained as specified in letter dated June 15, 1987. The licensee shall maintain records of individuals designated as users.
12. Sealed sources containing licensed material shall not be opened.
13. A. (1) The sources specified in Item 7.A. shall be tested for leakage and/or contamination at intervals not to exceed 6 months. Any source received from another person which is not accompanied by a certificate indicating that a test was performed within 6 months before the transfer shall not be put into use until tested.  
(2) Notwithstanding the periodic leak test required by this condition, any licensed sealed source is exempt from such leak tests when the source contains 100 microcuries or less of beta and/or gamma emitting material or 10 microcuries or less of alpha emitting material.  
B. Any source in storage and not being used need not be tested. When the source is removed from storage for use or transfer to another person, it shall be tested before use or transfer.  
C. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the source shall be removed from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. A report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region IV, 611 Ryan Plaza Drive, Suite 1000, Arlington, Texas 76011, ATTN: Chief, Nuclear Materials and Emergency Preparedness Branch. The report shall specify the source involved, the test results, and corrective action taken. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. Records may be disposed of following Commission inspection.  
D. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically licensed by the Commission or an Agreement State to perform such services.

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14. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 2 years from the date of each inventory.
15. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
16. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
  - A. Application dated August 30, 1986
  - B. Radiation safety program received November 19, 1986
  - C. Letter received January 7, 1987
  - D. Letter dated June 15, 1987

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

JUL 16 1987

Date \_\_\_\_\_

Original signed by  
**JACK E. WHITTEN**

By

Nuclear Materials Safety Section  
Region IV  
Arlington, Texas 76011

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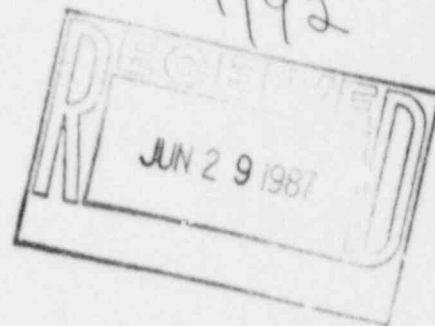
UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION IV  
611 RYAN PLAZA DRIVE, SUITE 1000  
ARLINGTON, TEXAS 76011

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BETWEEN: William O. Miller, Chief  
License Fee Management Branch  
Office of Administration

R. J. Everett, Chief  
Material Radiation Protection Section, TPB,  
DV&TP, RIV

LICENSEE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee:

Application Dated:

Control No.:

License No.:

American Logging & Pulp Inc.  
6/15/87  
461550  
(030-19447) 35-19868-01

2. FEE ATTACHED

Amount:

Check No.:

\$170-  
10779

3. COMMENTS

Signed

Date

Laura Hurley  
6/22/87

B. LICENSEE FEE MANAGEMENT BRANCH

1. Fee Category and Amount:

2. Correct Fee Paid. Application may be processed for:

Amendment ✓

Renewal       

License       

Signed

Date

J. Kimbrey  
6/25/87

5A

\$170