

JUL 11 1985

Sego Well Services
ATTN: David G. Art
Acting Radiation Safety Office
P.O. Box 119
Cambridge, OH 43925

Gentlemen:

This is in reference to your letter dated January 14, 1985 requesting an amendment to NRC License Number 34-20407-01.

Additional information is needed in support of your request. Please respond to the following:

1. The Parkwell source(s) that you've requested authorization to use have not been tested in accordance with ANSI Standards for their ability to withstand the extreme temperatures and pressures which may be found in well-logging operations. Without this testing, there is no assurance that these sources will maintain their integrity during use. A prototype source, however, has been tested at 5000 psi and 500°C with apparent success. Because of the potential for the sources to rupture under more severe environmental conditions, we need a commitment from you that your Parkwell Model PL-Ambe sources(s) will not be used in down-hole environments exceeding 5000 psi and 500°C. Furthermore, we recommend that continuous use of the sources be at temperatures equal to or less than 300°C.

As an alternative to the above, you may submit documentation from an appropriate testing organization certifying the performance of the sources at temperatures and pressures exceeding those for which the prototype source was tested.

Please be advised that there is a proposal to amend the regulations to include specific radiation safety requirements for well-logging operations. A copy is attached for your review. The proposed rule specifies design and performance criteria for all sealed sources except those containing gaseous material. These requirements would phase out the use of substandard sources.

2. You've requested that Messrs. Hudson, Barthallow, McConahy and Berger be named as authorized users on your license and you've submitted a description of their training in radiation safety and their experience with well-logging operations. We need, however, more details on the on-the-job training they've received at Sego Well Services.

For Messrs. Barthalow, McConahy and Berger, submit an outline of the subject areas covered during the on-the-job training including documentation of specific operations each individual has performed using radioactive materials in well-logging. Submit also an evaluation by the appropriate supervisor of their ability to carry out the radiation safety responsibilities required by your NRC license. (Note: The on-the-job training should have included specific instructions in your company's operating and emergency procedures as well as experience handling the radioactive material listed on your license).

For Mr. Hudson, please submit the information requested above, the duration of the training, and the name of the supervisor under which the training was received.

3. Please confirm that all of your logging supervisors and assistants will be retrained annually after their initial training. This training is needed to: (1) refresh their understanding of basic radiation safety practices, (2) instruct them on any new procedures or on the use of new radiation detection instruments and new tools and (3) review regulatory requirements or new regulations which may affect their work.

We will continue the review of your request upon receipt of this information. Please reply in duplicate within 30 days and reference Control No. 78118.

Sincerely,

Original Signed By
B.J. Holt
Materials Licensing Section

Enclosure: Part 30-Proposed Rule
Making

RIII

Holt/cm
06/27/85

113NS

PERFORATING

SEGO SERVICES

614-439-4746

P.O. Box 117
Cambridge, Ohio 43725

January 14, 1985

LOGGING

Applicant	<i>Jan-21/III</i>
Check No.	<i>2187</i>
Amount For Date	<i>SA - \$120</i>
Term	<i>and</i>
Date Check Set	<i>3/19/85</i>
Received By	<i>Jackson</i>

UNITED STATES NUCLEAR
REGULATORY COMMISSION, Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

ATTN: Mr. Bruce Mallett

Dear Sir:

We are requesting the following changes to our License #34-20407-01.

(1) Add to Item 6, the following:

F. Americium 241:BE

F. Sealed Neutron Sources
(Parkwell Laboratories,
Model PL-Ambe)

F. Not to exceed
2.7 Curies per source

G. Cesium 137

G. Sealed Sources
(Gamma Industries
Model VD-HP)

G. Not to exceed
125 Millicuries

(2) Add to Item 12, the following users:

Jonathan W. Hudson
William T. Barthalow
Dennis R. McConahy
Charles T. Berger

Please find enclosed resumes and training certificates for the above persons. If you have any questions, please call (614) 439-4746.

Sincerely,

David G. Art
David G. Art, Acting R.S.O.

RECEIVED
JAN 17 1985
REGION III

DGA:mah

CONTROL NO. 78118

JAN 17 1985

R E S U M E

JONATHAN W. HUDSON
1 MANOR DRIVE, COVENTRY ESTATES
CAMBRIDGE, OHIO 43725
(614) 439-5916

PERSONAL INFORMATION

AGE: 25
HEIGHT: 6' 3"
WEIGHT: 185 lbs.
HEALTH: Excellent

EDUCATION

HIGH SCHOOL

Cambridge High School, Cambridge, OH
Graduated: 1977

ADDITIONAL SCHOOLING

O.U.- Zanesville Branch
M.A.T.C.
Marietta College
Graduated w/degree in Petroleum Engr.

F. L. CLIFFORD ASSOCIATION
Niantic, CT

Radiation Safety in Well Logging Operations

including: Principles and practices of radiation protection, radioactivity measurement standardization and monitoring techniques and instruments, mathematics and calculations basic to the use and measurement of radioactivity, biological effects of radiation.

WORK EXPERIENCE

1982 - Present

Sego Well Services, Cambridge, OH
Sales Engr.

1981 - 1982

Eastern Well Survey, Wooster, OH
Engineer

1980 - 1981

Presto Chemical Corp., New Concord, OH
Engineer

1979 - 1980

Tennessee Gas & Oil, New Concord, OH
Landman

1978 - 1979

Gaspro, Inc., Cambridge, OH
Roustabout

CONTROL NO. 78118

R E S U M E

CHARLES THOMAS BERGER
ROUTE 3
NEWCOMERSTOWN, OHIO 43832
(614) 498-6719

PERSONAL INFORMATION

AGE: 27
HEIGHT: 6' 3"
WEIGHT: 150 lbs.
HEALTH: Excellent

EDUCATION

HIGH SCHOOL: Cambridge High School
Cambridge, Ohio
Completed 11th Grade

ADDITIONAL SCHOOLING: F. L. CLIFFORD ASSOCIATION
Niantic, CT
April - 1984
Radiation safety in Well Logging

Operations, including: Principles and practices of radiation protection, radioactivity measurement standardization and monitoring techniques and instruments, mathematics and calculations basic to the use and measurement of radioactivity, biological effects of radiation.

6 months on job training under Phillip H. Segrest on the principles & practices of using radioactive sources in well logging.

WORK EXPERIENCE

1980 - 1981	Perfection Services Stonecreek, Ohio Logging Engr.
1977 - 1980	Simonds Cutting Tools Newcomerstown, Ohio File Hardening
1975 - 1977	ABE Lumber Company Newcomerstown, Ohio Laborer
1981 - Present	Sego Well Services

R E S U M E

WILLIAM THOMAS BARTHALOW
1220 BATTLE RIDGE ROAD
CAMBRIDGE, OHIO 43725
(614) 432-7030

PERSONAL INFORMATION

AGE: 30
HEIGHT: 5' 8"
WEIGHT: 195 lbs.
HEALTH: Excellent

EDUCATION

HIGH SCHOOL: Newcomerstown High School
Newcomerstown, Ohio
Graduated: 1973

ADDITIONAL SCHOOLING: F. L. CLIFFORD ASDOCIATION
Niantic, CT
April - 1984

Radiation safety in Well Logging

Operations, including: Principles and practices of radiation protection, radioactivity measurement standardization and monitoring techniques and instruments, mathematics and calculations basic to the use and measurement of radioactivity, biological effects of radiation.

6 month on job training under David G. Art on the principles & practices of using radioactive sources in well logging.

WORK EXPERIENCE

1982 - Present	Sego Well Services
1979 - 1982	Perfection Services, Inc. Logging Engr.
1979 - 1979	Hackard & Brooks Pumper
1973 - 1979	Tiltons Custom Kill Butcher

RESUME

DENNIS RAY McCONAHY
P. O. BOX 603, EAST JORDAN ROAD
MT. PLEASANT, MICHIGAN 48858
(517) 773-1959

PERSONAL INFORMATION

AGE: 31
HEIGHT: 5' 10"
WEIGHT: 210 lb.
HEALTH: Excellent

EDUCATION

HIGH SCHOOL:	Cambridge High School Cambridge, Ohio Graduated: 1971
STATE DEPT. OF EDUCATION:	State T & I
DIV. OF VACATIONAL EDUCATION:	EMT-A Instructor Graduated: 1973
OHIO PEACE OFFICERS TRAINING:	M.A.T.C. Zanesville, Ohio Graduated: 1975 (1st in Class)
INVESTIGATIVE COURSES	B.C.I. 1975-1978

STATE OF OHIO INSERVICE FIREMAN' TRAINING	1980
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ADDITIONAL SCHOOLING:	F. L. CLIFFORD ASSOCIATION Niantic, CT. April - 1984 Radiation safety in Well Logging Operations, including: Principles and practices of radiation protection, radioactivity measurement standardization and monitoring techniques and instruments, mathematics and calculations basic to the use and measurement of radioactivity, biological effects of radiation.
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6 months on job training under David G. Art on the principles & practices of
using radioactive sources in well logging.

CONTROL NO. 78118

RESUME - DENNIS R. McCONAHY (contd.)

WORK EXPERIENCE

1971 - 1974

Byrd Ambulance Service
EMT-A - Paramedic

1974 - 1979

Guernsey County Sheriffs Dept.
Deputy Sheriff

1979 - 1980

Guepal Construction
Drove dump truck, on & off road

1980 - 1981

Cambridge Mental Health &
Developmental Center
Security & Fire Dept.

1981 - Present

Sego Well Service

F. L. CLIFFORD ASSOCIATES
Radiation Safety Consultants
321 Main Street - Box 452
NIANTIC, CONNECTICUT 06357-0452

(203) 442-2909

DATE 8 April 1984

SUBJECT

TO Sego Services
P.O. Box 117
Cambridge, OH

Gentlemen;

On April 5, 1984 the below listed successfully completed our training course; "Radiation Safety in Well-Logging Operations". Enclosed find individual certificates of completion and examination materials for incorporation in your records.

BARTHALOW, Tom
BERGER, Charles T.
HUDSON, Jonatham W.
McCONAHY, Dennis R.

Very truly yours;

F. L. Clifford
F.L. Clifford

SIGNED

CONTROL NO. 78118