

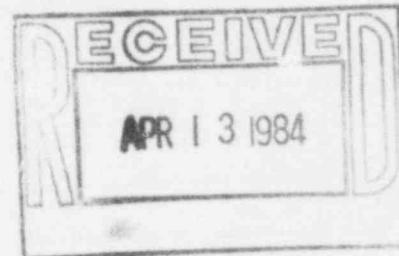
PRAIRIE INVESTORS

WIRELINE SERVICE

406/265-8251
P.O. Box 151
Havre, Montana 59501

April 9, 1984

U.S. Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Drive, Suite 1000
Arlington, Texas 76011



Attn: Mr. Jerry Everett
Material Licensing Branch

Re: NRC License No. 25-17317-01

Dear Mr. Everett:

Please amend the above captioned by-product material license to change the Radiation Protection Officer to Edwin Lewis Denton. He will replace me in this capacity to alleviate some of my responsibilities as owner and general manager of Prairie Wireline. As you can see by the attached resume and certificates of training, Mr. Denton is very well qualified to handle the duties and responsibilities of the Radiation Protection Officer for our company.

Also, please note our post office box has been changed to P.O. Box 151.

Our check in the amount of \$110.00 to cover the amendment fee (Well Logging - Category 5) is enclosed. If you need any additional information or clarification, please advise.

Sincerely,

Martin O'Neil

pm

Enclosures

cc: SC&A Inc.

Applicant	1458
Check No.	1458
Amount/Fee	\$110.00-5A
Type of Fee	Amendment
Date Check Rec'd	4/18/84
Received By	Brown

Date	4/18/84
Log	APRIL 3 IV
By	Brown
Orig. To	
Action	4/20/84

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25-17317-01 PDR

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R E S U M E

APRIL 1984

EDWIN LEWIS DENTON

126 8th Ave S.E.
Cutbank, Montana

(406) 873-4113

Date of Birth: October 14, 1939

Social Security No.: 517-40-8987

Advanced Education: Mechanical Engineer - Montana State University

Oilfield Related Experience:

- 1969-1971 Schlumberger; Casper, WY & Corpus Christi, TX; Open hole logging engineer. 3 Ci AmBe 241 and 2 Ci Cesium 137 sealed sources.
- 1971-1972 Consultant Engineer; Corpus Christi, TX; No RA materials.
- 1972-1978 Gearhart; Corpus Christi, TX & Farmington, NM; Open hole logging engineer and station manager for two years. 3 Ci and 20 Ci AmBe 241 and 2 Ci Cesium 137 sealed sources, and Iodine 131 and Iridium 192 in millicurie amounts.
- 1978-1982 Computalog; Medicine Hat, Alberta, Canada; Cased hole engineer; 3 Ci AmBe sealed source, Iodine 131 and Iridium 192 in millicurie amounts.

Radiation Safety Training:

- 1969 - In-house training by Schlumberger in Houston, Texas.
- 1975 - Nuclear Environmental Engineering, Inc. (certificate attached)
- 1979 - In-house training at Computalog
- 1983 - Support Consultants (Keith Moon) (certificate attached)

Support Consultants & Associates, Inc.

This is to certify that

EDWIN LEWIS DENTON

has successfully completed the Educational Course in

RADIATION SAFETY

as prescribed under The Training Program presented by

Support Consultants & Associates, Inc.

PRAIRIE WIRELINE SERVICE

APRIL 14, 1983

Date

Robert D. [unclear]
Leah [unclear]
Instructor



Certificate

This certificate indicates that EDWIN L. DENTON
has satisfactorily completed a twenty-four hour instruction and handling training
course for Radiation Safety for oil well logging

MARCH 22, 1975

Date

Nuclear Environmental Engineering, Inc.
Houston, Texas

Frank Mark Jr.
Instructor

Walter P. Peebles Jr.
Walter P. Peebles, Jr.
President

PRAIRIE INVESTORS

WIRELINE SERVICE

RECEIVED

406/265-8251

P.O. Box 1564

Havre, Montana 59501

March 15, 1982

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U. S. Nuclear Regulatory Commission
Div. of Fuel Cycle & Material Safety
Washington, D.C. 20555

Attn: Mr. Paul R. Guinn
Material Licensing Branch

Re: NRC license No. 25-17317-01
Prairie Investors

Dear Mr. Guinn:

We have received notice that the above captioned license will expire on April 30, 1982. Enclosed in duplicate is Form NRC 313 (I) which has been completed for renewal of this license. I call your attention to the name -- we have added "dba Prairie Wireline Service". Mr. Keith Moon of Support Consultants and Associates, Inc. has assisted us in this submittal, as Mr. Moon has been at our Havre facility to advise us on improving our radiation program and has given radiation safety training to our employees.

To supplement the application, we enclose in duplicate a manual in three sections. Section 1 is a Radiation Safety Training Manual for use in in-house training of well logging personnel. We request that you authorize our Radiation Protection Officer to designate radiation handlers after completion of this course. At the present time the instructor for our company will be Mr. Moon. Section 2 is our Operating and Emergency Procedures Manual which contains the information necessary to support our application in regard to radiation health physics and well logging operations. Section 3 contains various forms, drawings of our facilities and tools. You will note that although the address is the same in Havre, we have moved our facility to the north of the one previously shown on the license. Enclosed is a survey of the source storage bunker taken at the vacated premises, indicating no readings. We did not possess any tracer materials at this location. In addition to the facilities in Havre and Cut Bank, we are adding a new facility in Billings, Montana. A sketch of this facility is also included.

I will serve as the Radiation Protection Officer in charge of the over-all radiation program. My resume and certificate of training are attached, and I was named on the original license. We would also like to have named on the license our supervisors who will be in charge of the day-to-day radiation health physics at each facility. They are indicated on the application, and were previously named on our license.

The radioactive materials on our license at present are Americium 241 2nd Cesium 137 sealed sources and Iodine 131 and Iridium 192

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INSPECTION AND ENFORCEMENT

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March 15, 1982

tracer materials. In addition we would like to be licensed to possess Cobalt 60 wires. We do not have a Cesium 137 sealed source at the present time, however, we would like the flexibility to add this at a future date. You will note that we have increased the Cesium to "not to exceed 2 Curies" and have increased the maximum for Iodine and Iridium due to the logistics, with our suppliers being so far away. ✓

Mr. Guinn, I trust this submittal will give you all the information needed to renew our license and make the requested changes. If you need further information or clarification, please do not hesitate to contact myself or Mr. Moon, who is authorized to represent us in this matter. Our check in the amount of \$460.00 to cover the renewal fee is also enclosed. ✓ Your prompt attention to this license renewal will be greatly appreciated.

Sincerely,

PRAIRIE INVESTORS
dba PRAIRIE WIRELINE SERVICE



Martin O'Neil, President

MO:vab

encls

cc: Keith Moon - SC&A, Inc.

FORM NRC-313 I (1-79) 10 CFR 30		U.S. NUCLEAR REGULATORY COMMISSION		1. APPLICATION FOR: (Check and/or complete as appropriate)	
APPLICATION FOR BYPRODUCT MATERIAL LICENSE INDUSTRIAL				a. NEW LICENSE	
See attached instructions for details. Completed applications are filed in duplicate with the Division of Fuel Cycle and Material Safety, Office of Nuclear Material Safety, and Safeguards, U.S. Nuclear Regulatory Commission, Washington, DC 20555 or applications may be filed in person at the Commission's office at 1717 H Street, NW, Washington, D. C. or 7915 Eastern Avenue, Silver Spring, Maryland.				b. AMENDMENT TO: LICENSE NUMBER	
				c. RENEWAL OF: LICENSE NUMBER	
				X 25-17317-01	
2. APPLICANT'S NAME (Institution, firm, person, etc.) PRAIRIE INVESTORS dba PRAIRIE WIRELINE SERVICE TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION (406) 265-8251			3. NAME OF PERSON TO BE CONTACTED REGARDING THIS APPLICATION Keith E. Moon, Consultant TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION (915) 367-9314		
4. APPLICANT'S MAILING ADDRESS (Include Zip Code) P. O. Box 1564 Havre, Montana 59501			5. STREET ADDRESS WHERE LICENSED MATERIAL WILL BE USED (Include Zip Code) Hwy 2, West of Havre; Hwy 2 East of Cut Bank; and 2317 4th Ave. South, Billings; Montana, and temporary job sites anywhere in NRC jurisdiction.		
(IF MORE SPACE IS NEEDED FOR ANY ITEM, USE ADDITIONAL PROPERLY KEYED PAGES.)					
6. INDIVIDUAL(S) WHO WILL USE OR DIRECTLY SUPERVISE THE USE OF LICENSED MATERIAL (See Items 16 and 17 for required training and experience of each individual named below)					
FULL NAME			TITLE		
a.	Carl Coutts		Supervisor - Havre, Montana		
	Ted Van Beek		Supervisor - Billings, Montana		
b.	John Brown		Supervisor - Cut Bank, Montana		
	and Individuals designated by the Radiation Protection Officer				
c.	after completion of approved radiation safety training course.				
7. RADIATION PROTECTION OFFICER Martin L. O'Neil			Attach a resume of person's training and experience as outlined in Items 16 and 17 and describe his responsibilities under Item 15.		
8. LICENSED MATERIAL					
L I N E NO.	ELEMENT AND MASS NUMBER A	CHEMICAL AND/OR PHYSICAL FORM B	NAME OF MANUFACTURER AND MODEL NUMBER (If Sealed Source) C	MAXIMUM NUMBER OF MILLICURIES AND/OR SEALED SOURCES AND MAXIMUM ACTI- VITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME D	
(1)	Americium:Be 241	Sealed Sources	NSSI Model AN-HP; GN Model 71-1; Gamma Ind.	Not to exceed 3 Curies NB-HP	
(2)	Cesium 137	Sealed Sources	Gamma Ind. VD(HP) or Gulf Nuclear CSV	Not to exceed 2 Curies	
(3)	Cobalt 60	Wires		Not to exceed 20 uCi	
(4)	Iodine 131 Iridium 192	Any Any	Not to exceed 40 mCi per unit; max. 250 mCi Not to exceed 20 mCi per unit; max. 250 mCi		
DESCRIBE USE OF LICENSED MATERIAL E					
(1)	Neutron well logging				
(2)	Density well logging				
(3)	Perforating charge markers				
(4)	Tracer studies in oil and gas wells				

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9. STORAGE OF SEALED SOURCES

LINE NO.	CONTAINER AND/OR DEVICE IN WHICH EACH SEALED SOURCE WILL BE STORED OR USED. A.	NAME OF MANUFACTURER B.	MODEL NUMBER C.
(1)	Source storage assembly	Gearhart-Owen Ind.	15-2011-03
(2)	Any approved (We do not have a Cesium source at this time)		
(3)			
(4)			

10. RADIATION DETECTION INSTRUMENTS

LINE NO.	TYPE OF INSTRUMENT A	MANUFACTURER'S NAME B	MODEL NUMBER C	NUMBER AVAILABLE D	RADIATION DETECTED (alpha, beta, gamma, neutron) E	SENSITIVITY RANGE (milliroentgens/hour or counts/minute) F
(1)	G-M	Ludlum		2	Beta/gamma	0-50 mr/hr
(2)	G-M	G.E. Smith	GS500A	4	Beta/gamma	0-500 mr/hr
(3)						
(4)						

11. CALIBRATION OF INSTRUMENTS LISTED IN ITEM 10

☒ a. CALIBRATED BY SERVICE COMPANY

NAME, ADDRESS, AND FREQUENCY Every 6 months
R/A Services, Inc.
P.O. Box 7345, Odessa, Tx. or any other
State or Federally approved service company

☐ b. CALIBRATED BY APPLICANT

Attach a separate sheet describing method, frequency and standards
used for calibrating instruments.

12. PERSONNEL MONITORING DEVICES

TYPE (Check and/or complete as appropriate.) A	SUPPLIER (Service Company) B	EXCHANGE FREQUENCY C
<input type="checkbox"/> (1) FILM BADGE		<input type="checkbox"/> MONTHLY
<input checked="" type="checkbox"/> (2) THERMOLUMINESCENCE DOSIMETER (TLD) with Neutron chip	R. S. Landauer Jr. & Co. Glenwood, Ill. or any other State or Federally approved dosimetry service company	<input checked="" type="checkbox"/> QUARTERLY
<input type="checkbox"/> (3) OTHER (Specify): _____		<input type="checkbox"/> OTHER (Specify): _____

13. FACILITIES AND EQUIPMENT (Check were appropriate and attach annotated sketch(es) and description(s).)

- ☐ a. LABORATORY FACILITIES, PLANT FACILITIES, FUME HOODS (Include filtration, if any), ETC.
☒ b. STORAGE FACILITIES, CONTAINERS, SPECIAL SHIELDING (fixed and/or temporary), ETC.
☒ c. REMOTE HANDLING TOOLS OR EQUIPMENT, ETC.
☐ d. RESPIRATORY PROTECTIVE EQUIPMENT, ETC.

14. WASTE DISPOSAL

a. NAME OF COMMERCIAL WASTE DISPOSAL SERVICE EMPLOYED

Any waste from tracer operations (vials, cans, etc) will be returned to supplier.

b. IF COMMERCIAL WASTE DISPOSAL SERVICE IS NOT EMPLOYED, SUBMIT A DETAILED DESCRIPTION OF METHODS WHICH WILL BE USED FOR DISPOSING OF RADIOACTIVE WASTES AND ESTIMATES OF THE TYPE AND AMOUNT OF ACTIVITY INVOLVED. IF THE APPLICATION IS FOR SEALED SOURCES AND DEVICES AND THEY WILL BE RETURNED TO THE MANUFACTURER, SO STATE.

Sealed sources will be returned to manufacturer for disposal.

INFORMATION REQUIRED FOR ITEMS 15, 16 AND 17

Describe in detail the information required for Items 15, 16 and 17. Begin each item on a separate page and key to the application as follows:

PLEASE REFERENCE ENCLOSED PROCEDURES MANUAL.

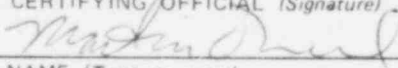
15. RADIATION PROTECTION PROGRAM. Describe the radiation protection program as appropriate for the material to be used including the duties and responsibilities of the Radiation Protection Officer, control measures, bioassay procedures (if needed), day-to-day general safety instruction to be followed, etc. If the application is for sealed source's also submit leak testing procedures, or if leak testing will be performed using a leak test kit, specify manufacturer and model number of the leak test kit.
16. FORMAL TRAINING IN RADIATION SAFETY. Attach a resume for each individual named in Items 6 and 7. Describe individual's formal training in the following areas where applicable. Include the name of person or institution providing the training, duration of training, when training was received, etc.
 - a. Principles and practices of radiation protection.
 - b. Radioactivity measurement standardization and monitoring techniques and instruments.
 - c. Mathematics and calculations basic to the use and measurement of radioactivity.
 - d. Biological effects of radiation.
17. EXPERIENCE. Attach a resume for each individual named in Items 6 and 7. Describe individual's work experience with radiation, including where experience was obtained. Work experience or on-the-job training should be commensurate with the proposed use. Include list of radioisotopes and maximum activity of each used.

18. CERTIFICATE

(This item must be completed by applicant)

The applicant and any official executing this certificate on behalf of the applicant named in Item 2, certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, Part 30, and that all information contained herein, including any supplements attached hereto, is true and correct to the best of our knowledge and belief.

WARNING.—18 U.S.C., Section 1001; Act of June 25, 1948; 62 Stat. 749; makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

<p>a. LICENSE FEE REQUIRED (See Section 170.31, 10 CFR 170)</p> <p>Renewal - Well Logging</p>	<p>b. CERTIFYING OFFICIAL (Signature)</p>  <p>c. NAME (Type or print)</p> <p>Martin O'Neil</p>
<p>(1) LICENSE FEE CATEGORY: Category 5</p>	<p>d. TITLE</p> <p>President</p>
<p>(2) LICENSE FEE ENCLOSED: \$ 460.00</p>	<p>e. DATE</p> <p>March 15, 1982</p>

R E S U M E

MARTIN LeROY O'NEIL

1228 Washington Avenue
Havre, Montana 59501
(406) 265-5705

Date of Birth: December 8, 1948

Social Security No.: 516-59-7079

Well Logging Experience:

1973/1974 Canadian Perforators, Calgary, Alberta, Canada and Montana;
Operator of logging equipment for neutron logging and tracer
studies in cased hole wells.

1975/1976 American Perforators, Havre, Montana; Operator of logging
equipment for neutron logging of oil and gas wells.

April 1976

to Present: Prairie Investors dba Prairie Wireline Service, Havre, Montana;
Owner and operator supervising neutron logging, density logging,
and tracer studies in oil and gas wells.

Mr. O'Neil has gained experience in the use and handling of Americium:Be 241 (5 Ci), Cesium 137 (1.5 Ci) , and Radium 226 (10 uCi) sealed sources, and Iodine 131 and Iridium 192 tracer isotopes, and Cobalt 60 (10 uCi) perforating markers (wires). His latest radiation safety training was April 6, 7, and 8, 1981, taught by Keith Moon of Support Consultants and Associates, Inc. in Odessa, Texas. (Copy of certificate attached.)

Support Consultants & Associates

This is to certify that

MARTIN L. O'NEIL

has successfully completed the Educational Course in

OILFIELD RADIATION SAFETY

as prescribed under The Training Program presented by

Support Consultants & Associates

PRAIRIE WIRELINE SERVICE

APRIL 8, 1981

Date

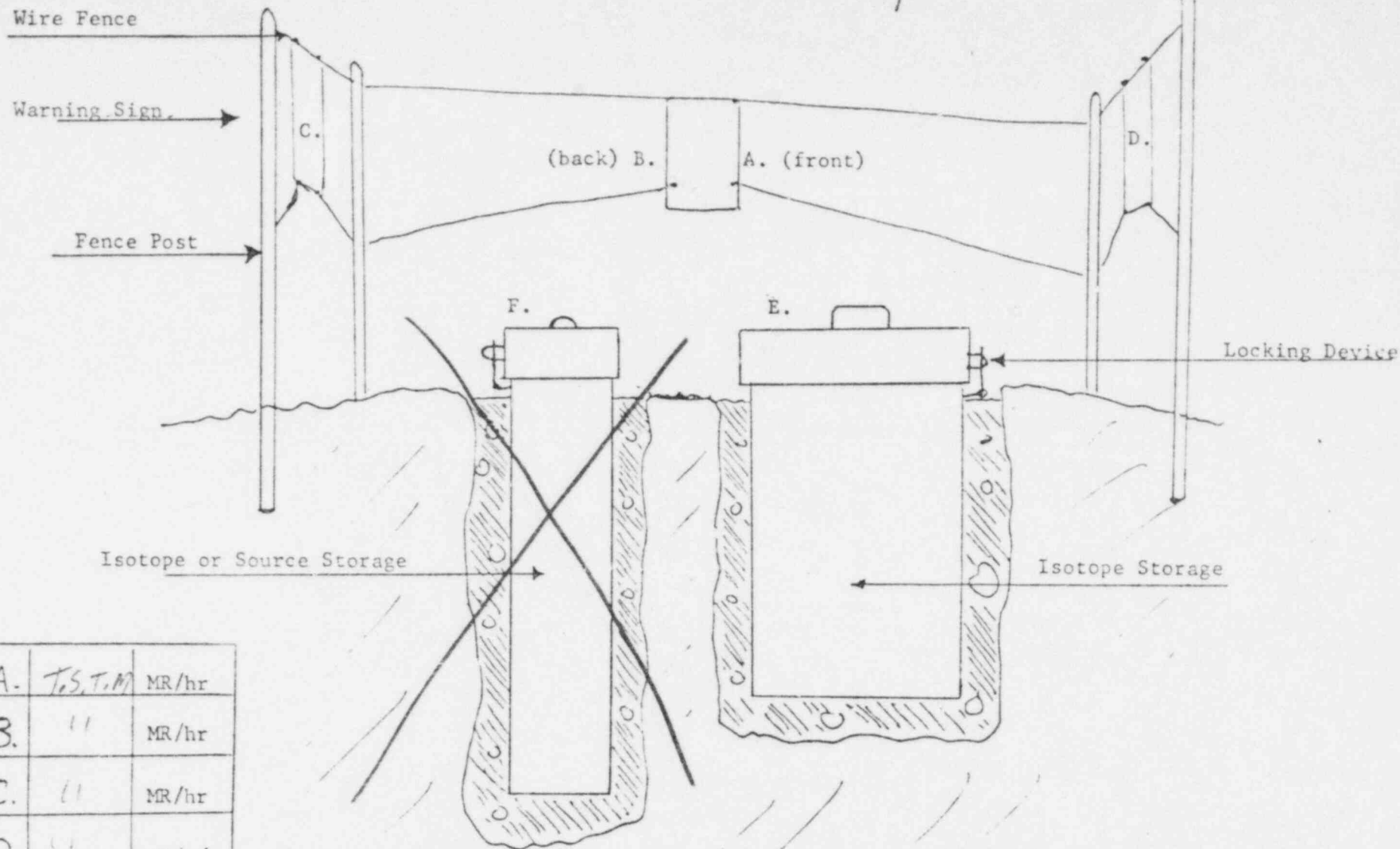
Kurt Johnson
Training Officer

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FINAL READING - TO BE VACATED

MONTHLY BUNKER SURVEY

PRAIRIE WIRELINE SERVICE
Hwy 2, WEST OF HAVER



A.	T.S.T.M	MR/hr
B.	"	MR/hr
C.	"	MR/hr
D.	"	MR/hr
E.	"	MR/hr
F.	"	MR/hr

Survey Meter G.E. SMITH Model GS-500A

Serial Number 2466

Calibration Date 11-2-81

Inspected By: CARL COVITS

Date: 2-10-82

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ALL READINGS TOO SMALL
TO MEASURE ON ANY SCALE