

**SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION**

1. LICENSEE/LOCATION INSPECTED:

GeoLog Well Services, Inc.  
506 West Smith Street  
Wayne, City, IL 62895  
Location Inspected: Job Site near Union, IN  
REPORT NUMBER(S) 2020-001

2. NRC/REGIONAL OFFICE

Region III  
U. S. Nuclear Regulatory Commission  
2443 Warrenville Road, Suite 210  
Lisle, IL 60532-4352

3. DOCKET NUMBER(S)

150-00012

4. LICENSE NUMBER(S)

GL per 10 CFR 150.20 / IL-02277-01

5. DATE(S) OF INSPECTION

January 29, 2020

**LICENSEE:**

The inspection was an examination of the activities conducted under your license as they relate to radiation safety and to compliance with the Nuclear Regulatory Commission (NRC) rules and regulations and the conditions of your license. The inspection consisted of selective examinations of procedures and representative records, interviews with personnel, and observations by the inspector. The inspection findings are as follows:

1. Based on the inspection findings, no violations were identified.
2. Previous violation(s) closed.
3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is being taken, and the remaining criteria in the NRC Enforcement Policy, to exercise discretion, were satisfied.

Non-cited violation(s) were discussed involving the following requirement(s):

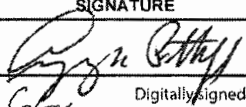
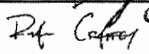
- ☒ 4. During this inspection, certain of your activities, as described below and/or attached, were in violation of NRC requirements and are being cited in accordance with NRC Enforcement Policy. This form is a NOTICE OF VIOLATION, which may be subject to posting in accordance with 10 CFR 19.11.  
(Violations and Corrective Actions)

Contrary to 10 CFR 39.65(a), on January 29, 2020, a logging supervisor employed by GeoLog Well Services, Inc. did not wear a personnel dosimeter while handling two sealed sources containing licensed material.

As corrective action for this Severity Level IV violation, the logging supervisor wore a calibrated electronic dosimeter for the remainder of the work. The licensee also revised its pre-trip vehicle / equipment checklist to include extra steps instructing crews to confirm the presence of dosimetry, a survey meter and long-handled tools before leaving the shop.

**Statement of Corrective Actions**

I hereby state that, within 30 days, the actions described by me to the Inspector will be taken to correct the violations identified. This statement of corrective actions is made in accordance with the requirements of 10 CFR 2.201 (corrective steps already taken, corrective steps which will be taken, date when full compliance will be achieved). I understand that no further written response to NRC will be required, unless specifically requested.

TITLE	PRINTED NAME	SIGNATURE	DATE
LICENSEE'S REPRESENTATIVE	GREGORY K. POTTORFF		03/05/2020
NRC INSPECTOR	Ryan Craffey	 Digitally signed by Ryan J. Craffey Date: 2020.03.04 12:27:14 -07'00'	
BRANCH CHIEF	Robert Ruiz, Acting Chief	Christine A. Lipa Digitally signed by Christine A. Lipa Date: 2020.03.05 07:54:17 -06'00'	

**Docket File Information**

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January 29, 2020

6. INSPECTION PROCEDURES USED

87123

7. INSPECTION FOCUS AREAS

FE 1-6

**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM CODE(S)

03111

2. PRIORITY

3

3. LICENSEE CONTACT

Greg Pottorff - President, RSO

4. TELEPHONE NUMBER

(618) 895-2140

☐ Main Office Inspection

Next Inspection Date: TBD

☐ Field Office Inspection

☒ Temporary Job Site Inspection CR 750 N at Cutoff Road, Washington Township, IN

**PROGRAM SCOPE**

This was an announced field inspection of a well services company authorized by the State of Illinois to store byproduct material at its facility in Wayne City, Illinois, and to use that material for well logging at temporary job sites in Illinois jurisdiction. The licensee conducted those activities at temporary job sites in NRC jurisdiction under the terms of a reciprocity request filed and approved in January 2020 for the calendar year. The scope of this inspection was limited to an evaluation of licensed activities (logging a wildcat natural gas well using Cs-137 and Am-241 sealed sources) in a rural area of southwestern Indiana, approximately a half mile west of the unincorporated community of Union, Indiana.

**PERFORMANCE OBSERVATIONS**

The inspector observed the conduct of well logging activities at the temporary job site near Union. The inspector observed the logging supervisor and his assistant assemble, use, and dismantle the tool string containing both sealed sources of licensed material, noting the use of long-handled tools and other ALARA practices throughout. The inspector observed the logging supervisor perform surveys of the tools and job site using a calibrated survey meter, and conducted independent surveys to confirm the absence of residual contamination on or in the vicinity of the tools and the wellhead. The inspector also conducted independent surveys of the sources in their locked, blocked and braced safes to verify compliance with DOT limits for radiation levels during transport on public highways. The inspector reviewed a selection of records available on the job site, including shipping papers, operating and emergency procedures, radiation surveys and instrument calibration records, current leak tests for both sources, and a copy of the company's State of Illinois radioactive materials license. The inspector did note that the job site coordinates on the licensee's reciprocity change report were inaccurate; however this was because the client initially gave the licensee inaccurate information.

While observing the conduct of well logging activities, the inspector discovered that the logging supervisor was not wearing a personnel dosimeter while handling licensed material, contrary to 10 CFR 39.65(a). The logging supervisor was initially unsure of where his badge had gone. Upon returning to the shop he discovered that it had fallen off his person while preparing to leave for the job site.

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**PROGRAM SCOPE**

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The inspector determined that the root cause of the violation was an oversight. As corrective action, the logging supervisor wore a calibrated electronic dosimeter for the remainder of the work, collecting approximately 0.04 millrem of dose during disassembly of the tool string and return of both sources to storage. The licensee also revised its pre-trip vehicle / equipment checklist to include extra steps instructing crews to confirm the presence of dosimetry, a survey meter and long-handled tools before leaving the shop. The licensee forwarded a copy of the revised checklist template to the inspector on February 26, 2020.