

[EXTERNAL] Field Permit Clarno Unit area Report

John Armentrout <jarmenrock@gmail.com>

Tue 7/25/2023 12:59 PM

To:Famoso, Nicholas A <nicholas_famoso@nps.gov>

Cc:Les Magoon <lesmagoon@gmail.com>

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July 25, 2023

Nick,

REPORT: Permit #JODA-2023-SCI-007

As authorized by the above permit, Les Magoon and I traversed or visited five areas within the Clarno Unit or adjacent outcrops on June 22, 2023.

On June 23 we traversed the Red Hill trail with David Blackwell and Ray Weldon, both from the University of Oregon Earth Sciences Department. This traverse was to review the mapping units published in the Bestland et al. (1999) Oregon Geology report.

Our objective was to discover asphaltic samples within the Clarno Formation as had been previously reported.

We did not find any samples of asphaltic material and therefore collected no samples.

We enjoyed hiking the Clarno Unit where designated trails were in good condition. This area clearly deserves to be a National Monument and the protection of natural resources that comes with such designation.

Thank you for your help in permitting our field work.

Respectively,

John Armentrout
Research Associate
University of Oregon Earth Science Department

SCIENTIFIC RESEARCH AND COLLECTING PERMIT Grants permission in accordance with the attached general and special conditions United States Department of the Interior National Park Service John Day Fossil Beds	Study#: JODA-00055 Permit#: JODA-2023-SCI-0007 Start Date: Jun 18, 2023 Expiration Date: Jun 29, 2023 Coop Agreement#: Optional Park Code:
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Name of principal investigator: Name: John Myers Armentrout Phone: 503 702 6663 Email: jarmentrock@gmail.com
Name of institution represented: University of Oregon Research Associate
Additional investigators or key field assistants: Name: Leslie B. Magoon Phone: 650 996 2158 Email: lesmagoon@gmail.com
Study Title: Coaledo Project Petroleum System Study
Purpose of study: Testing the hypothesis that the Cretaceous Hudspeth Formation exposed within the Mitchell Inlier is the source of asphalt previously collected from the Clarno Formation near the Palisades Unit of the John Day Fossil Beds National Monument. A geochemical analysis to test this hypothesis requires field work to collect as many as 10 asphalt samples in the vicinity of the Clarno Unit along the trace of the Pine Creek fault that parallels Highway 218. The Coaledo Project consists of a team of geologists focused on study of the Coos Bay Basin Cenozoic geology, currently authorized under Oregon State Parks Research Permit #353.
Subject/Discipline: Geochemistry (inc. Minerals / Petrology) Geostucture / Tectonics
Locations authorized: Talus areas and cliff faces along Highway 218 not in highway right-of-way and other locations within the Clarno Unit from the Hancock Road as far north as Hancock Canyon, northwest margin of the Clarno Unit.
Transportation method to research site(s): Using a passenger car, park along public access paved or gravel roads and hike into Clarno Unit along pre-existing trails areas including Hancock Canyon.
Collection of the following specimens or materials, quantities, and any limitations on collecting: No more than 10 samples of 50 oz may be collected from the surface. Basic hand tools will be permitted.
Name of repository for specimens or sample materials if applicable: Repository type: Permanently retained in National Park Service collection, maintained by NPS repository Objects collected: Rock samples of less than 50 ounces will be collected and all material remaining after geochemical analysis will be submitted to the John Day Fossil Beds Museum Program.
NPS General Conditions for Scientific Research and Collecting Permit (available at the RPRS HELP page) apply to this permit. The following specific conditions or restrictions, and any attached conditions, also apply to this permit: The disturbance or collection of any fossil materials, whether as structural materials or trace fossils, including the entombing matrix or paleosol, is not permitted without special additional permitting procedures. No research activity (including botanical, zoological, or geological) may be conducted that secondarily affects the paleobiological resources without project-specific conditions. Follow Leave No Trace Principles when on site. Please inform park scientific research and collecting permit coordinator when you intend to be on site and provide vehicle information. Hancock Field Station and NPS staff will need to be informed ahead of your arrival. This permit only grants access to NPS-administered lands. Any access to Hancock Field Station will need to be obtained through the Oregon Museum of Science and Industry.

Summary of permitted field methods and activities:

Field work within the Clarno Unit involves hiking traverses looking for asphaltic residue within talus debris and non-scenic area outcrop surfaces. As many as 10 samples will be collected of less than 50 ounces of material.

All analyzed data will be reported and un-used sample sent to the John Day Fossil Beds National Monument Museum Program.

Recommended by park staff(name and title):

Nicholas Famoso, Paleontologist

Reviewed by Collections Manager:

Yes ☒ No ☐

Approved by park official:

CARLA COLE

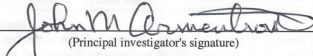
Digitally signed by CARLA COLE
Date: 2023.04.26 07:22:57
+0700'

Date Approved:

Title:

Acting Superintendent

I Agree To All Conditions And Restrictions Of this Permit As Specified
(Not valid unless signed and dated by the principal investigator)


(Principal investigator's signature)

May 1, 2023
(Date)

THIS PERMIT AND ATTACHED CONDITIONS AND RESTRICTIONS MUST BE CARRIED AT ALL TIMES WHILE CONDUCTING RESEARCH ACTIVITIES IN THE DESIGNATED PARK(S)

The Clarno Unit is a part of the John Day Fossil Beds National Monument, Oregon. The Clarno Unit is a part of the John Day Fossil Beds National Monument, Oregon. The Clarno Unit is a part of the John Day Fossil Beds National Monument, Oregon.

Responsible person:
Name: John M. Armentrout
Address: 12345 Main St, Portland, OR 97201

Location of research:
This research will be conducted in the Clarno Unit, Oregon. The research will be conducted in the Clarno Unit, Oregon. The research will be conducted in the Clarno Unit, Oregon.

Time restrictions (if any):
This research will be conducted during the hours of 9:00 AM to 5:00 PM, Monday through Friday. The research will be conducted during the hours of 9:00 AM to 5:00 PM, Monday through Friday. The research will be conducted during the hours of 9:00 AM to 5:00 PM, Monday through Friday.

Collection of the following specimens is authorized for the purpose of the research:
Specimens that may be collected include: ☐ Fossils, ☐ Plants, ☐ Animals, ☐ Minerals, ☐ Rocks, ☐ Soils, ☐ Water, ☐ Air, ☐ Other: _____

Amount of specimens for scientific or scientific research: ☐ 100, ☐ 200, ☐ 300, ☐ 400, ☐ 500, ☐ 600, ☐ 700, ☐ 800, ☐ 900, ☐ 1000, ☐ 1100, ☐ 1200, ☐ 1300, ☐ 1400, ☐ 1500, ☐ 1600, ☐ 1700, ☐ 1800, ☐ 1900, ☐ 2000, ☐ 2100, ☐ 2200, ☐ 2300, ☐ 2400, ☐ 2500, ☐ 2600, ☐ 2700, ☐ 2800, ☐ 2900, ☐ 3000, ☐ 3100, ☐ 3200, ☐ 3300, ☐ 3400, ☐ 3500, ☐ 3600, ☐ 3700, ☐ 3800, ☐ 3900, ☐ 4000, ☐ 4100, ☐ 4200, ☐ 4300, ☐ 4400, ☐ 4500, ☐ 4600, ☐ 4700, ☐ 4800, ☐ 4900, ☐ 5000, ☐ 5100, ☐ 5200, ☐ 5300, ☐ 5400, ☐ 5500, ☐ 5600, ☐ 5700, ☐ 5800, ☐ 5900, ☐ 6000, ☐ 6100, ☐ 6200, ☐ 6300, ☐ 6400, ☐ 6500, ☐ 6600, ☐ 6700, ☐ 6800, ☐ 6900, ☐ 7000, ☐ 7100, ☐ 7200, ☐ 7300, ☐ 7400, ☐ 7500, ☐ 7600, ☐ 7700, ☐ 7800, ☐ 7900, ☐ 8000, ☐ 8100, ☐ 8200, ☐ 8300, ☐ 8400, ☐ 8500, ☐ 8600, ☐ 8700, ☐ 8800, ☐ 8900, ☐ 9000, ☐ 9100, ☐ 9200, ☐ 9300, ☐ 9400, ☐ 9500, ☐ 9600, ☐ 9700, ☐ 9800, ☐ 9900, ☐ 10000, ☐ 10100, ☐ 10200, ☐ 10300, ☐ 10400, ☐ 10500, ☐ 10600, ☐ 10700, ☐ 10800, ☐ 10900, ☐ 11000, ☐ 11100, ☐ 11200, ☐ 11300, ☐ 11400, ☐ 11500, ☐ 11600, ☐ 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