



NWT OFFICE OF THE REGULATOR OF OIL AND GAS OPERATIONS

Office of the Regulator of Oil and Gas Operations

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Ryan Munro, P.Eng.
Manager, Abandonment Engineering
Canadian Natural Resources Ltd.
Suite 2100, 8800 – 2 ST SW
CALGARY AB T2P 4J8

February 15th, 2023

Dear Ryan Munro:

Inspection: Netla C-07 (WID 0191) Well – ACW-2019-008-CNRL-C-07-WID0191

Inspectors Michael Martin, Chief Safety Officer/Chief Conservation Officer, and Brandon Bradbury, Safety Officer/Conservation Officer inspected the abandonment of the Netla C-07 (WID0191) well on February 8th, 2023.

The inspection was carried out to ensure Canadian Natural Resources Ltd. was adhering to the terms of the Well Approval for this operation (ACW-2019-008-CNRL-C-07-WID0191).

Please see the attached Operations Summary Inspection Report for your reference. This report will be posted to the Office of the Regulator of Oil and Gas Operations' Public Registry at www.oroogo.gov.nt.ca.

If you have any questions, please contact me at (867) 767-9097 or by email at Brandon_Bradbury@gov.nt.ca.

Sincerely,

Brandon Bradbury
Safety Officer
Conservation Officer

Encl. Netla C-07 (WID 0191) Operation Summary Inspection Report – February 15th, 2023

- c. Department of Lands, Dehcho Region;
Department of Environment and Natural Resources, Dehcho Region.
Dale Duffy, Superintendent, Abandonments, CNRL

OROGO Operations Inspection Summary Report

Well Information

Well name: Netla C-07

4 digit WID: 0191

Operator: Canadian Natural Resources Ltd

Well status: Suspended

OROGO risk level: Level 1

Shallow wellbore plug? Yes No24-hour operations? Yes NoCoordinates (*In decimal degrees; verified onsite*)Datum: NAD 27 NAD 83 Unknown

Lat: 60° 46' 12.9" N

Long: 122° 46' 23.2" W

Completed in H₂S zone? Yes Estimated % of H₂S: 0.03% or Measured % of H₂S: 0%

Program step on arrival: 37: Rig out service rig and release all services.

Program step on departure: 37: Rig out service rig and release all services.

Inspection Date and Contact Information

Date of inspection: February 8th, 2023

Access method: Vehicle

OROGO Inspectors:

- Michael Martin – Chief Safety Officer /

Conservation Officer

- Brandon Bradbury – Safety Officer/Conservation Officer

Activity Inspected

OA#: OA-2018-005-CNRL

Nature of activity: Abandonment

ACW#: ACW-2019-008-CNRL-C-07-WID 0191

Contractor on site (if applicable): N/A

Name: N/A

Company: N/A

Rig Number: N/A

Phone: N/A

Email: N/A

Inspection Results

Rig Safety

Accumulator function test

 Compliant Non-Compliant Corrected Non-Compliance

Comments: Rig and associated infrastructure had demobilized at the time of the inspection.

Equipment certifications

 Compliant Non-Compliant Corrected Non- Compliance

Comments: Rig and associated infrastructure had demobilized at the time of the inspection.

Version: August 23, 2022

Authorization / Approval available	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure had demobilized at the time of the inspection.
Boiler inspection	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non-Compliance	Comments: Rig and associated infrastructure had demobilized at the time of the inspection.
Guards and covers on moving equipment	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure had demobilized at the time of the inspection.
Pump lines and hoses secured, intact and appropriate?	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure had demobilized at the time of the inspection.
Adequate lighting	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure had demobilized at the time of the inspection.
Wind indicators visible and functional	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure had demobilized at the time of the inspection.
Fire extinguishers	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure had demobilized at the time of the inspection.
Equipment spacing	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure had demobilized at the time of the inspection.
Engine kills	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure had demobilized at the time of the inspection.
Sufficient N ₂ back-up?	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure had demobilized at the time of the inspection.
Flow turns	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure had demobilized at the time of the inspection.
General housekeeping	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure had demobilized at the time of the inspection.

Other Rig Safety notes:
N/A

Personnel Safety

Valid safety tickets	<input type="checkbox"/> Compliant	Comments: Rig and associated infrastructure had demobilized at the time of the inspection.
<input type="checkbox"/> First Aid / CPR	<input type="checkbox"/> Non-Compliant	
<input type="checkbox"/> H2S	<input type="checkbox"/> Corrected Non- Compliance	
<input type="checkbox"/> WHIMS		
<input type="checkbox"/> TDG		
<input type="checkbox"/> BOP		
<input type="checkbox"/> Other (specify in comments)		
Safety meetings and documentation	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure had demobilized at the time of the inspection.
SCBAs and/or supplied air available and visible	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure had demobilized at the time of the inspection.
First Aid equipment and EMS on site and accessible	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure had demobilized at the time of the inspection.
Gas detection equipment on site and accessible	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure had demobilized at the time of the inspection.
Communication plans available	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure had demobilized at the time of the inspection.
Hazard identification and signage	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure had demobilized at the time of the inspection.
ERP available upon request	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure had demobilized at the time of the inspection.
Safety Plan available upon request	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure had demobilized at the time of the inspection.
BOP drills and documentation	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure had demobilized at the time of the inspection.
Function tests and documentation	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure had demobilized at the time of the inspection.
Other Personnel Safety notes: N/A		

Blowout Prevention Equipment

BOP certifications	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure had demobilized at the time of the inspection.
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Version: August 23, 2022

BOP pressure rating	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure had demobilized at the time of the inspection.
Kill sheet in dog house	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure had demobilized at the time of the inspection.
Stabbing valves and cross-overs	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure had demobilized at the time of the inspection.
Flow lines and choke lines secured	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure had demobilized at the time of the inspection.
Other Blowout Prevention Equipment notes: N/A		

Specific to Shallow Wellbore Plug (☒ Not Applicable)

Snubbing unit in place	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: N/A.
Other Shallow Wellbore Plug notes: Click or tap here to enter text.		

Specific to 24-Hour Operations (☒ Not Applicable)

Cross-over notes	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: N/A
Other 24-hour operations notes: Click or tap here to enter text.		

Environment

Rig matting	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure had demobilized at the time of the inspection.
Drip trays	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure had demobilized at the time of the inspection.
Materials handling and storage	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure had demobilized at the time of the inspection.
Spill response equipment on site and accessible	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure had demobilized at the time of the inspection.
Tubing laydown area protection	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure had demobilized at the time of the inspection.
Other Environment notes: Click or tap here to enter text.		

Version: August 23, 2022

Safety Plan

Compliant? Yes No

Comments: Rig and associated infrastructure had demobilized at the time of the inspection.

Environmental Protection Plan

Compliant? Yes No

Comments: Rig and associated infrastructure had demobilized at the time of the inspection.

Emergency Response (Contingency) Plan

Compliant? Yes No

Comments: Rig and associated infrastructure had demobilized at the time of the inspection.

Authorization and Approvals

Following program as approved? Yes No

Comments: Rig and associated infrastructure had demobilized at the time of the inspection.

Meeting all conditions? Yes No

Comments: Rig and associated infrastructure had demobilized at the time of the inspection.

Other Documents Requested / Received During Inspection

Details:

Photographs

Number of photographs attached:4 [Click or tap here to enter text.](#)

Additional Comments / Observations

At the time of the inspection a John Deere 250G excavator was actively removing material around the well head in preparation for cut and cap operations (Photo #1).

Although no concerns were noted during the inspection, CNRL personnel must ensure the ground surface over the wellhead is mounded after cut and cap operations to ensure no ponding of water occurs above the abandoned well. All waste items seen in Photo #4 must also be removed for proper offsite disposal at an authorized disposal facility.

As a reminder, as required by section 89 of the *Oil and Gas Drilling and Production Regulations*, Canadian Natural Resources Ltd. is required to submit a Well Operations Report 30 days following the cut and cap of this well.

Overall, there were no major concerns noted during the inspection and the Inspectors were pleased with the well abandonment operation. Your cooperation to submit a Well Operations Report 30 days following the cut and cap of this well is anticipated and appreciated.

This inspection was conducted under the *Oil and Gas Operations Act* and associated regulations.

Name: Michael Martin

Designation: Chief Safety Officer

Date: 2023-02-15

Signature: 

Name: Brandon Bradbury

Designation: Safety Officer

Date: 2023-02-15

Signature: 



PHOTO #1: View of the C-07 wellhead being exposed for cut and cap operations.



PHOTO #2: Overview of the operations on site.



PHOTO #3: Equipment staged on site for removal.



PHOTO #4: Waste metals must be removed for proper offsite disposal at an authorized disposal facility.