



NWT OFFICE OF THE REGULATOR OF OIL AND GAS OPERATIONS

Office of the Regulator of Oil and Gas Operations

P.O. Box 1320, Yellowknife, NT X1A 2L9

Tel: 867-767-9097 • Fax: 867-920-0798 • Web: [www.oroogo.gov.nt.ca](http://www.oroogo.gov.nt.ca)

Courier Address: 4th floor, 5201 – 50th Avenue, Yellowknife, NT X1A 3S9

Duncan MacRae,  
Director  
Strategic Oil & Gas Ltd.  
Suite 1100, 250 – 6 AVE SW  
CALGARY, AB T2P 3H7

March 3<sup>rd</sup>, 2023

Dear Duncan MacRae:

**Inspection: Cameron M-31 (WID 1122) Well – ACW-2022-SOG-M-31-WID1122**

Inspectors Michael Martin, Chief Safety Officer/Chief Conservation Officer, and Brandon Bradbury, Safety Officer/Conservation Officer inspected the abandonment of the Cameron M-31 (WID1122) well on February 22<sup>nd</sup>, 2023.

The inspection was carried out to ensure Strategic Oil & Gas Ltd was adhering to the terms of the Well Approval for this operation (ACW-2022-SOG-M-31-WID1122). The Inspectors met with Mr. Kevin Olsen, Well Site Supervisor/Consultant, on site.

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](http://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](mailto:Brandon_Bradbury@gov.nt.ca).

Sincerely,

Brandon Bradbury  
Safety Officer  
Conservation Officer

Encl. Cameron M-31 (WID 1122) Operation Summary Inspection Report – February 22<sup>nd</sup>, 2023

- c. Department of Lands, South Slave Region.  
Department of Environment and Natural Resources, South Slave Region.  
Chris Gemmill, Director of Operations, Environmental Liability Management Inc.

# OROGO Operations Inspection Summary Report

## Well Information

Well name: Cameron M-31

4 digit WID: 1122

Operator: Strategic Oil and Gas Ltd

Well status: Suspended

OROGO risk level: Level 2

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

Lat: 60° 00' 56.4" N

Long: 117° 07' 22.3" W

Completed in H<sub>2</sub>S zone? Yes Estimated % of H<sub>2</sub>S: 0.19% or Measured % of H<sub>2</sub>S: 0%

Program step on arrival: 5: Move In Rig Up.

Program step on departure: 5: Move In Rig Up.

## Inspection Date and Contact Information

Date of inspection: February 22<sup>nd</sup>, 2023

Access method: Vehicle

OROGO Inspectors:

- Michael Martin – Chief Safety Officer /  
Conservation Officer- Brandon Bradbury – Safety Officer/Conservation  
Officer

## Activity Inspected

OA#: OA-2018-003-Strategic

Nature of activity: Abandonment

ACW#: ACW-2022-SOG-M-31-WID 1122 V#2

Contractor on site (if applicable): N/A

Name: Kevin Olsen

Company: Environmental Liability  
Management (ELM).

Rig Number: N/A

Phone: (780)-402-9448

Email: N/A

## Inspection Results

### Rig Safety

Accumulator  
function test Compliant Non-Compliant Corrected Non-ComplianceComments: No function test was conducted  
since the rig didn't arrive at the wellsite at the  
time of the inspection.

Version: August 23, 2022

Equipment certifications  Compliant  
 Non-Compliant  
 Corrected Non- Compliance

Comments: Pressure tank certifications could not be located on site and since the lease site was just being set up at the time of the inspection, the Inspectors requested that the tester send a copy of their valid certifications for the pressure tank and pop valve prior to operations commencing.

Although the above noted pressure tank certifications were provided within 24 hours of the Inspection, all equipment on site must have a copy of their certifications to be verified in the field and during future active operations

Authorization / Approval available	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Authorizations issued by OROGO located in the Consultants trailer and the Doghouse.
Boiler inspection	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non-Compliance	Comments: Boiler certifications were readily available and matched the on-site equipment (Photos #1 through #4).
Guards and covers on moving equipment	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure were yet to arrive on site.
Pump lines and hoses secured, intact and appropriate?	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure were yet to arrive on site.
Adequate lighting	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: The inspection was conducted during daylight hours.
Wind indicators visible and functional	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure were yet to arrive on site.
Fire extinguishers	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: All fire extinguishers were inspected and were re-certified within the last 12 months (Photo #5).

Version: August 23, 2022

Equipment spacing  
 Compliant  
 Non-Compliant  
 Corrected Non- Compliance

Comments: Only the Pressure tank and the Flare stack were present on site but were not hooked up yet. Inspectors verified distances and realized that the flare stack was under the minimum 50 meters from the well center. Since the crew was just beginning to rig-up, testers were able to move the flare stack to the correct location on the lease (Photo #6).

- Flare stack - Well centre = 50m
- Rig pump - Rig tank = N/A
- Rig Tank - Well centre = N/A
- Pressure tank - Well center = 23.4m
- Doghouse - Well center =N/A
- Flare stack - Pressure tank = 27.2m

Spacing requirements of all well abandonment equipment was discussed on site with the site supervisor and Inspectors are confident that all equipment will have the proper minimum spacing during active abandonment operations.

Engine kills	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure were yet to arrive on site.
Sufficient N <sub>2</sub> back-up?	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure were yet to arrive on site.
Flow turns	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure were yet to arrive on site.
General housekeeping	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure were yet to arrive on site.

Other Rig Safety notes:  
 Rig and associated infrastructure were yet to arrive on site.

**Personnel Safety**

- Valid safety tickets  Compliant  
 First Aid / CPR  Non-Compliant  
 H2S  Corrected Non- Compliance  
 WHIMS  
 TDG  
 BOP  
 Other (specify in comments)

Comments: All safety tickets of on-site personnel were inspected and unfortunately one of the testers, one wireline personnel, and the medic could not provide a copy of their First Aid tickets upon request by the Inspectors.

Inspectors gave the three above noted individuals 48 hours to produce their valid First Aid tickets to ensure operations could proceed.

All tickets were provided within 24 hours of the inspection and no other concerns were noted.

**As a reminder, all personnel on the lease site must have a valid hard copy of their tickets readily available upon request by Inspectors during future operations.**

Safety meetings and documentation	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Safety practices were re-enforced, and potential hazards of that day's operations were identified and therefore, no concerns were noted.
SCBAs and/or supplied air available and visible	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure were yet to arrive on site.
First Aid equipment and EMS on site and accessible	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: First aid kits located through out site. There was a paramedic on site due to the remote location of M-31 from the camp at Cameron Hills.
Gas detection equipment on site and accessible	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: The Inspectors were pleased to see wind indicators, along with all personnel wearing individual gas detection monitors that included H <sub>2</sub> S sensors.
Communication plans available	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments:
Hazard identification and signage	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Hazard signage was placed at the lease entrance and no concerns were noted (Photo #7).
ERP available upon request	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Was located in the Doghouse during operations.
Safety Plan available upon request	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments:
BOP drills and documentation	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure were yet to arrive on site.
Function tests and documentation	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure were yet to arrive on site.

## Other Personnel Safety notes:

On-site personnel showed a knowledge and understanding of the safe operation of the service rig and associated equipment.

**Blowout Prevention Equipment**

BOP certifications	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure were yet to arrive on site.
BOP pressure rating	<input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: The BOP used for this operation will be a 7 1/16"/34.5 MPa which is an appropriate pressure rating for this well.
Kill sheet in dog house	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments:
Stabbing valves and cross-overs	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments:
Flow lines and choke lines secured	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure were yet to arrive on site.

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.
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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
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Other 24-hour operations notes:  
Click or tap here to enter text.

**Environment**

Rig matting	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure were yet to arrive on site.
Drip trays	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Drip trays were present under parked equipment although equipment had only been on site for under 1 hour. This cooperation to ensure drip trays are present under parked equipment is appreciated.
Materials handling and storage	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments:

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Spill response equipment on site and accessible	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Spill response materials were located on site and no major concerns were noted.
Tubing laydown area protection	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Rig and associated infrastructure were yet to arrive on site, but tubing was staged on the ground surface near the wireline truck (Photo #8).

Other Environment notes:  
Click or tap here to enter text.

### Safety Plan

Compliant?  Yes  No      Comments: Click or tap here to enter text.

### Environmental Protection Plan

Compliant?  Yes  No      Comments:

### Emergency Response (Contingency) Plan

Compliant?  Yes  No      Comments:

### Authorization and Approvals

Following program as approved?  Yes  No      Comments: At the time of the inspection, the program was being followed as approved with no requirement for a variation.

Meeting all conditions?  Yes  No      Comments:

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## Other Documents Requested / Received During Inspection

Details:

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## Photographs

Number of photographs attached: 8

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## Additional Comments / Observations

Pressure tank certifications could not be located on site and since the lease site was just being set up at the time of the inspection, the Inspectors requested that the tester send a copy of their valid certifications for the pressure tank prior to operations commencing.

Although the above noted pressure tank certifications were provided within 24 hours of the Inspection, all equipment on site must have a copy of their certifications to be verified in the field and during future active operations.

As a reminder, as required by section 89 of the *Oil and Gas Drilling and Production Regulations*, Strategic Oil and Gas 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 operation and the cooperation of the onsite staff. Your cooperation to submit a Well Operations Report 30 days following the cut and cap of this well is anticipated and appreciated.

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

Name: Michael Martin

Designation: Chief Safety Officer

Date: 2023-03-03

Signature: 

Name: Brandon Bradbury

Designation: Safety Officer

Date: 2023-03-03

Signature: 





PHOTO #1: View of the Boiler.



PHOTO #2: Another view of the boiler inside.

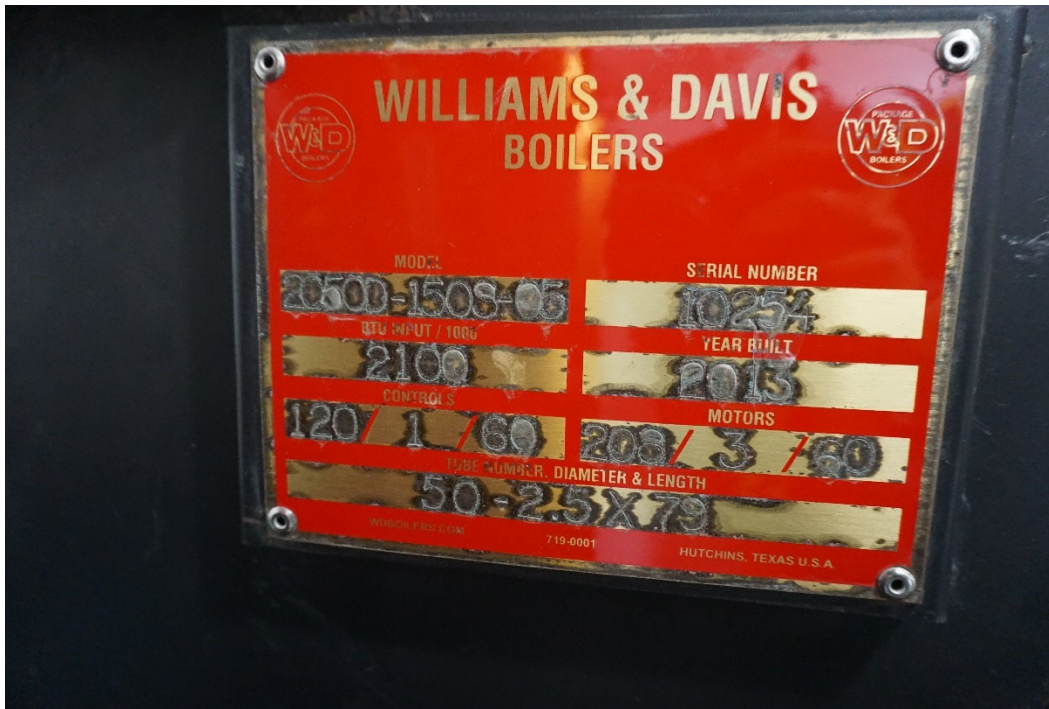


PHOTO #3: Serial number 10254 matched the Certifications on site.



PHOTO #4: View of the Boiler Certifications hung up on the wall inside.



PHOTO #5: Fire extinguishers have been recertified within the last 12 months.



PHOTO #6: Flare stack was being re-positioned to an area that was at least 50 meters from the well center.



PHOTO #7: Hazard signs were located at the lease entrance.



PHOTO #8: Drill tubing staged on the ground surface behind the wireline truck.