



NWT OFFICE OF THE REGULATOR OF OIL AND GAS OPERATIONS

Office of the Regulator of Oil and Gas Operations

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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 L-47 (WID 1736) Well – ACW-2023-SOG-L-47-WID1736**

Inspectors Michael Martin, Chief Safety Officer/Chief Conservation Officer, and Brandon Bradbury, Safety Officer/Conservation Officer inspected the abandonment of the Cameron L-47 (WID1736) well on February 23<sup>rd</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-2023-SOG-L-47-WID1736). The Inspectors met with Mr. Mike Young, 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 L-47 (WID 1736) Operation Summary Inspection Report – February 23<sup>rd</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 L-47

4 digit WID: 1736

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° 06' 32.0" N

Long: 117° 39' 23.7" W

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

Program step on arrival: 40: Make up and run-in hole with a 139.7mm permanent bridge plug on HM setting tool.

Program step on departure: 41: Set plug at +/- 1335 mKB.

## Inspection Date and Contact Information

Date of inspection: February 23<sup>rd</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-2023-SOG-L-47-WID 1736 V#2

Contractor on site (if applicable): N/A

Name: Mike Young

Company: Roll'n Oilfield Industries Ltd.

Rig Number: Rig #33

Phone: (403)-343-1710

Email: N/A

## Inspection Results

### Rig Safety

Accumulator  
function test Compliant Non-Compliant Corrected Non-Compliance

Comments: Function Test Compliant – did not drop below 8.4 MPa after three functions and recharged in &lt;5 min. (Photo #1)

Initial Pressure: 21 MPa

Pipe Ram Closed: 7.5 sec / 19 MPa

Pipe Ram Open: 10 sec / 17 MPa

Annular: 29 sec / 12 MPa

Recharge: 135 sec / 21 MPa.

Equipment certifications	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Serial Numbers of the BOP matched the certifications submitted to OROGO on December 20, 2022. - Annular: SPH1311 - Double Gate: 10920 (Photos #2 & #3)
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 #4 through #6).
Guards and covers on moving equipment	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: All guards and covers on moving equipment were in a condition satisfactory to the Inspectors.
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: All pump lines/hoses were secured in a condition satisfactory to the Inspectors (Photos #7 & #8).
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: Wind indicators were present on the crown of the derrick. No concerns were noted since the wind indicators were in a visible area.
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.

Version: August 23, 2022

Equipment spacing  Compliant  
 Non-Compliant  
 Corrected Non- Compliance

Comments: Most equipment on site had adequate spacing except for the Rig tank which was below the minimum spacing requirements from the well centre although there was adequate room behind to meet the minimum distance 50 meters required from the well center (Photo #9).

- Flare stack - Well centre = 61m
- Rig pump - Rig tank = 8.3m
- **Rig Tank - Well centre = 49.4m (>50m)**
- Pressure tank - Well center =27.4m
- Doghouse - Well center =32.0m
- Flare stack - Pressure tank = 32.9m

Although equipment spacing has improved since the previous inspection, Strategic Oil & Gas Ltd. is still required to ensure **all** spacing requirements adopted by OROGO, listed in the Alberta Energy Regulator's Directive 36, are met during future operations.

**Should the lease site not allow appropriate spacing while maintaining safe ingress/egress of the site, an exemption must be applied for through OROGO prior to the commencement of operations.**

Engine kills	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Engine kills (2 on the service rig and 1 on the rig tank pump) operated as designed and required manual reset of the air kill mechanism.
Sufficient N <sub>2</sub> back-up?	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Nitrogen Gas back ups were confirmed to be sufficient by on-site staff for the accumulator and BOP.
Flow turns	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: All flow turns inspected were compliant and installed correctly.
General housekeeping	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: The site was generally clean and waste items were being segregated and securely stored. Overall, the Inspectors had no concerns with housekeeping throughout the site.

Other Rig Safety notes:

Although BOP function tests are required to be conducted at the beginning of operations and every week there after, the rig crew were conducting and recording these tests at the beginning of every shift.

**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 inspected were valid at the time of inspection and no concerns were noted.

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: SCBA: Two (2) located at Muster point #1, and two (2) were located at Muster point #2. All SCBA had flow tests conducted within the past 12 months and no concerns were noted.
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 at camp as well as a medic located centrally to the 3 active operations in the area. The eye wash equipment in the boiler shack was replaced since the previous inspection and the Inspectors are pleased that this concern was addressed prior to the inspection. (Photo #10)
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 #11).
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 type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments:
Function tests and documentation	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Function testing was being conducted at the beginning of every shift with documentation available in the Doghouse.

Other Personnel Safety notes:

Rig crew, testers and other on-site personnel showed a knowledge and understanding of the safe operation of the service rig and associated equipment.

**Blowout Prevention Equipment**

- BOP certifications  Compliant  
 Non-Compliant  
 Corrected Non- Compliance

Comments: Serial Numbers of the BOP matched the certifications submitted to OROGO on December 20, 2022. - Annular: SPH1311 - Double Gate: 10920 (Photos #2 & #3).

The above noted certification (Photo #3) for the Double gate BOP will be pulled out of service on March 4<sup>th</sup>, 2023 and another Double gate BOP was on site during the inspection to replace the double gate BOP that is currently in use.

While verifying the serial numbers of the new Double gate BOP and the certifications provided on site, Inspectors were only able to match the S/O number 2742, however the S/N# on the Double gate (6-5H34304) did not match up with the certifications in the Doghouse (6-5M34304).

It was determined that the S/N# on the Gateway BOP and Controls Inc Certification was an administrative error and the on-site personnel rectified this concern immediately and provided the Inspectors with updated copies of the Certifications at 21:29h on February 23<sup>rd</sup>, 2023.

BOP pressure rating	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: The BOP used for this operation was 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: As seen in Photo #8, flow lines and choke lines were secured.
Other Blowout Prevention Equipment notes: N/A		

**Specific to Shallow Wellbore Plug (  Not Applicable )**

- Snubbing unit in place  Compliant  
 Non-Compliant  
 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  Compliant  
 Non-Compliant  
 Corrected Non- Compliance
- Comments: N/A

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 matting was placed below the service rig.
Drip trays	<input type="checkbox"/> Compliant <input checked="" type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments: Drip trays were located under equipment and the only equipment that required a drip tray was the truck used to move the accumulator shack. Drip trays must be present under pared equipment during future operations to prevent the likelihood of hydrocarbon impacts to the underlying soils (Photo #12).
Materials handling and storage	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Corrected Non- Compliance	Comments:
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: Tubing racks were not utilized on site and they were being stood upright on the monkey bars at the time of the inspection. No concerns were noted since no obvious impacts were observed on the ground surface near the Service rig.

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:

**Other Documents Requested / Received During Inspection**

Details:

**Photographs**

Number of photographs attached: 13

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## Additional Comments / Observations

The Pressure tank and the Flare stack both had adequate spacing from the well center but lines connecting from the P-tank to the well were not connected. The site supervisor advised Inspectors on site that the reason for not having the P-tank and flare stack hooked up was because there were no open perforations down hole during this operation.

Although there were no open perforations down hole, Inspectors advised the site supervisor that the P-tank must be connected to the well so that in the unlikely event of a “kick” or unexpected rise in downhole pressure occurs (due to a failed barrier, or micro annulus), they could still shut in the well and manage pressure. As seen in Photo #13, this concern was adequately addressed prior to the end of the Inspection and this cooperation is appreciated.

**SPACING: If minimum spacing requirements cannot be achieved while rigging up the site, Strategic Oil & Gas Ltd. personnel must do the following:**

- 1) Notify OROGO of the spacing limitations;
- 2) Provide a site diagram with proposed locations and distances of equipment; and
- 3) Identify site limitations, with rationale, on how to maximize the allowable spacing between equipment and the wellbore.

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.




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 Accumulator shack. 6x 11gal Nitrogen tanks with 2x back up tanks.

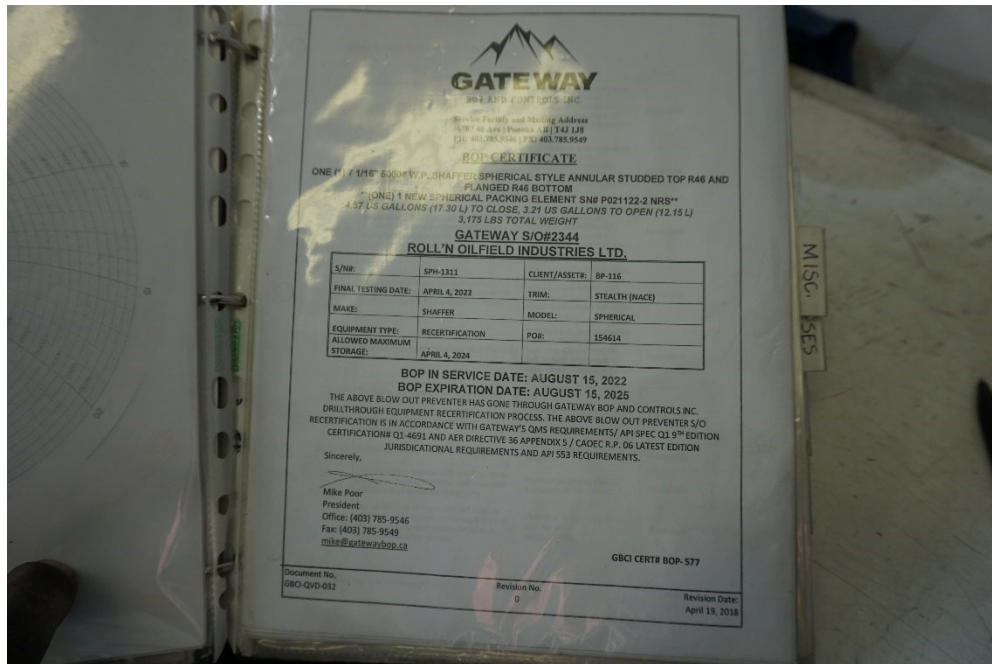


PHOTO #2: BOP Certificate for the Annular matched the equipment being used on site.

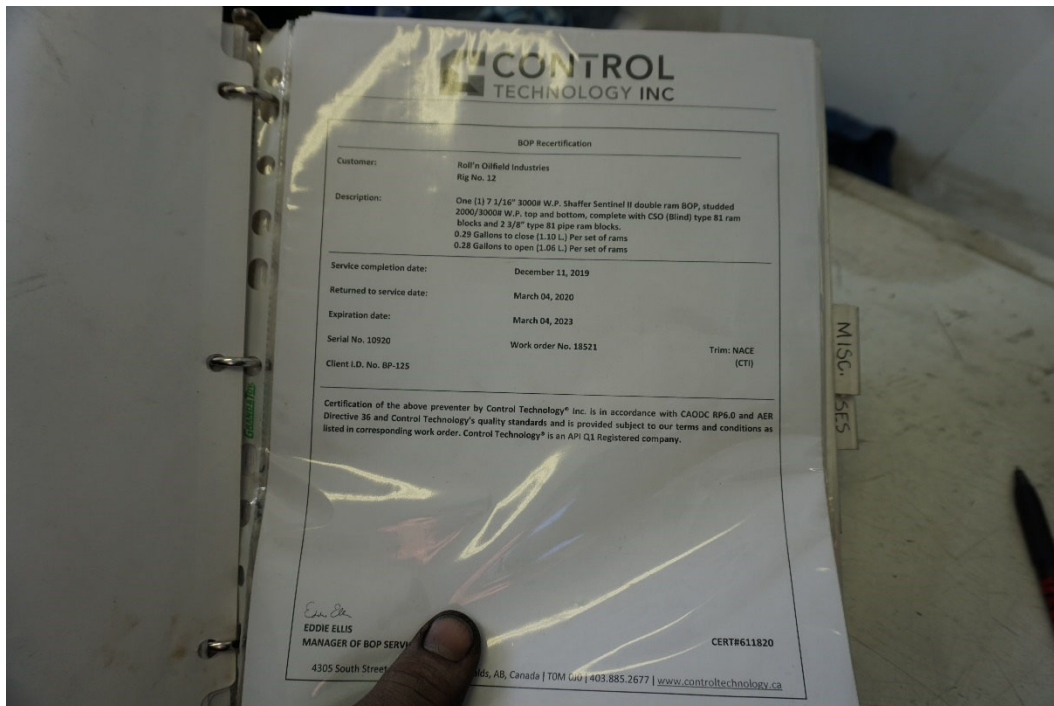


PHOTO #3: Double gate BOP Certification shows that March 4<sup>th</sup>, 2023 is the out of service date and must be replaced with a certified Double gate BOP before March 4<sup>th</sup>.



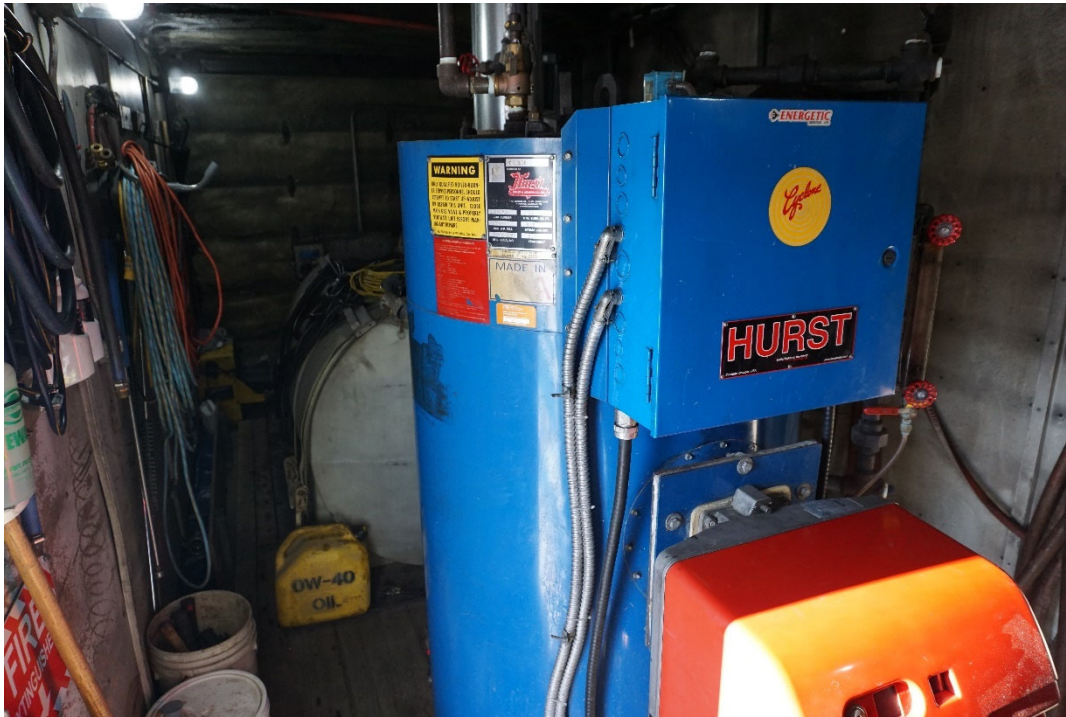


PHOTO #4: View of the Boiler and fresh water holding tank on site.

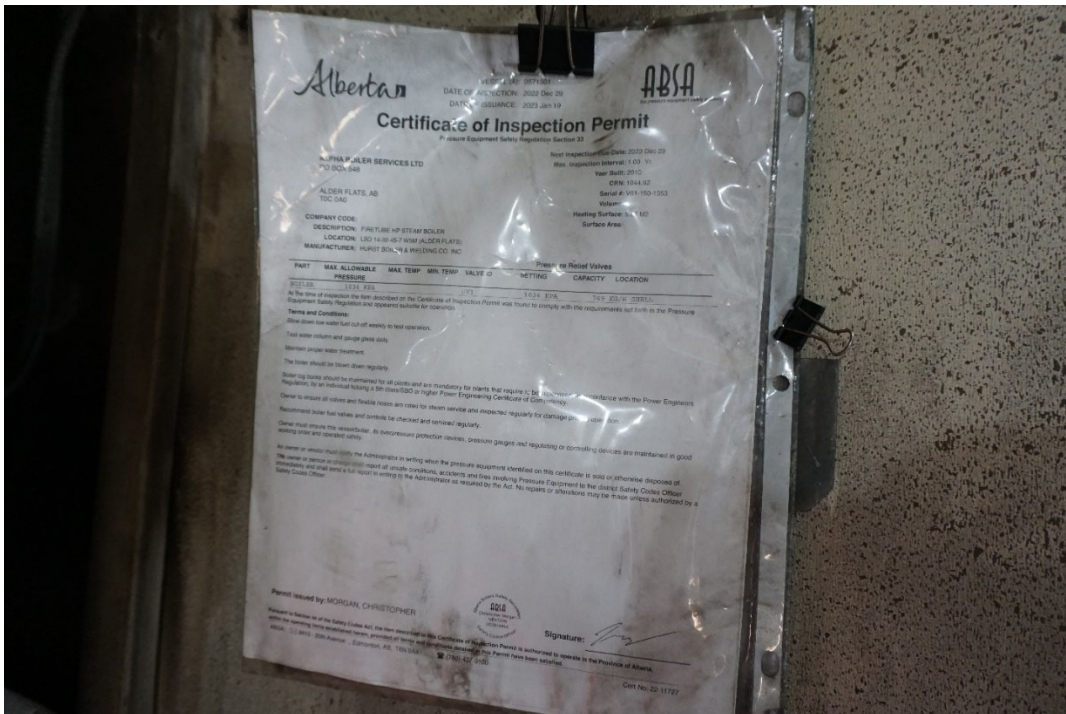


PHOTO #5: Boiler Certifications for S/N V61-150-1353 matched the Boiler on site.



PHOTO #6: Boiler S/N# V61-15-1353.



PHOTO #7: Lines were elevated to prevent thawing of the underlying ground and no concerns were noted.





PHOTO #8: Lines from the Rig tank were secured.



PHOTO #9: Although adequate room was available behind the rig tank to meet the minimum spacing requirements (50m), the rig tank was located 49.4m from the well center.





PHOTO #10: Eye wash station in the boiler has been replaced since the previous inspection.



PHOTO #11: Lease entrance signage was in place and no concerns were noted.





PHOTO #12: This piece of equipment required a drip tray placed underneath which was used for transporting the Accumulator shack.



PHOTO #13: P tank and flare stack both hooked up prior to the end of the inspection.