

Orphan Well Association

Lars De Pauw, President

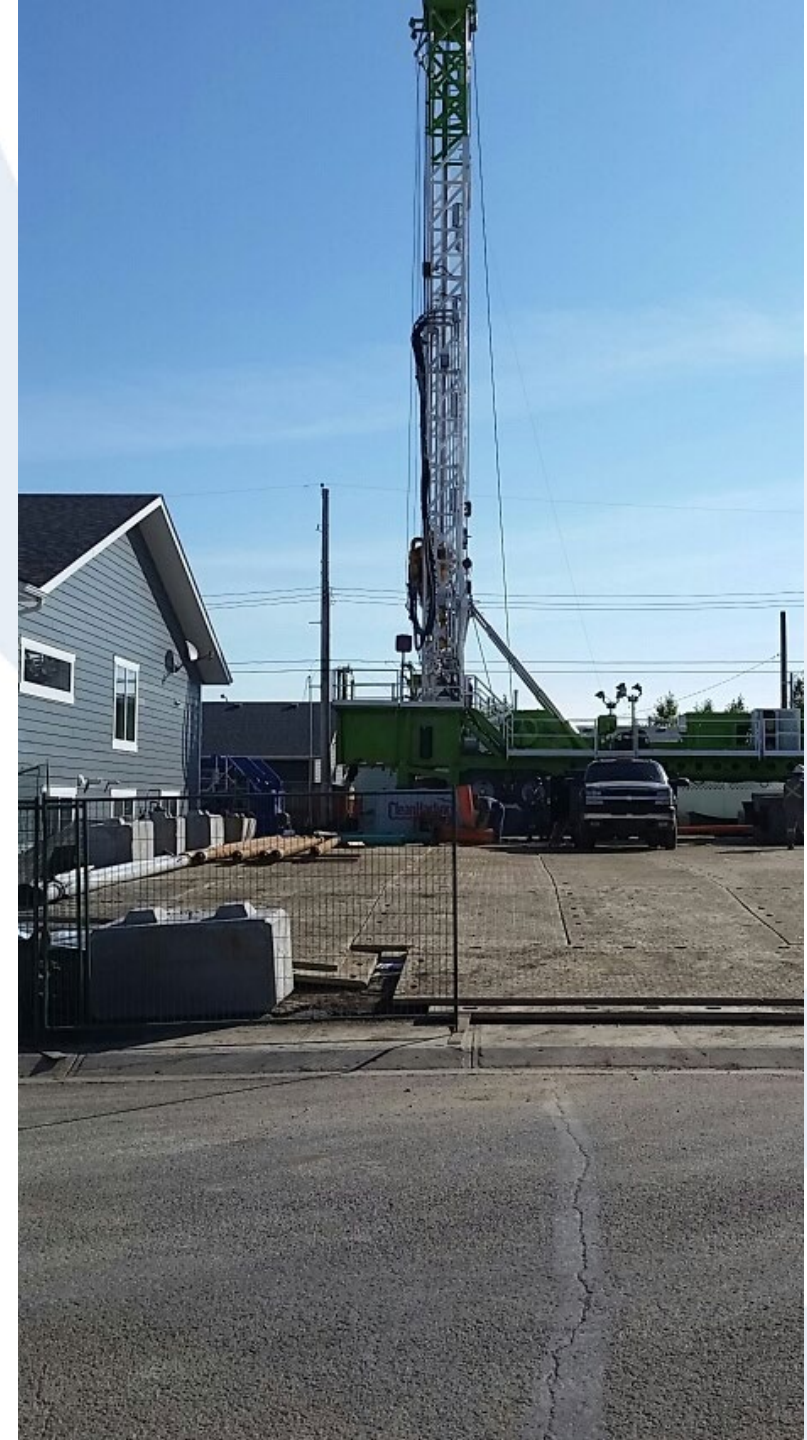
**Bonnyville Open House
June 12th, 2025**



**Orphan Well
Association**

Overview

- **Background – Orphan Well Association**
- **The well - Trican 100/12-08-061-05W4**
- **Keeping Residents Safe – Gas Monitoring/Mitigation**
- **Decommissioning Program Details**
 - Five Phases
- **Anticipated impacts and mitigation**



Orphan Well Association

- Officially began operations in 2001
- We are a Non-profit organization
- OWA is not a Government Organization
- Operate under the delegated authority of Alberta Energy Regulator (AER)
 - Orphan Fund Delegated Administration Regulation (OFDAR) & OGCA
 - But - financially and legally separate from the AER
- Primarily funded by the Alberta oil and gas industry



OWA Mandate



Orphan Well Association

To decommission Orphan oil and gas infrastructure and reclaim the land similar to its original state in a safe, principled, and cost-efficient manner

Trican 100/12-08-061-05W4– Well Details and Characteristics

- **Well was drilled in 1954 to a depth of 381 m**
 - Drilled by Trican Petro-Chemical Corporation – now defunct
 - Never produced, only has surface casing (i.e., open hole)
 - Well was decommissioned seven days after drilling was initiated
- **Confirmed methane in soil and basements**
 - Appears restricted to the area near the wellbore and south
 - Discovered during routine work by Apex Utilities on June 20, 2024





Well Location

Keeping People Safe – Gas Monitoring/Mitigation

- Extensive indoor/outdoor sampling performed over multiple months
- Wellbore located, daylighted, and casing vent installed (July 2024)
- Gas detection systems installed inside several homes (July 2024)
- Vapour extraction system installed near wellhead (September 2024)
- Sub-slab vapour extraction systems installed in several homes (November 2024)



Decommissioning Program Details – Five Phases

- **Phase #1 – Building Demolition (planned for June/July 2025)**

- Two houses and one duplex will be demolished and utilities removed
- Clean fill will be used for backfill and to level the site in preparation for the Drilling Rig.



- **Phase #2 – Site Preparation and Rig Move (planned for July/August 2025)**

- Wellsite will be padded and levelled and rig matting installed
- Drill rig will be moved on to location via 46th Street and 46th Avenue
- Approximately 20 truckloads of equipment required (one full day or more)

Town-Approved Route for Drill Rig

Access/Egress Route

46 Ave

To be
removed

To be
removed

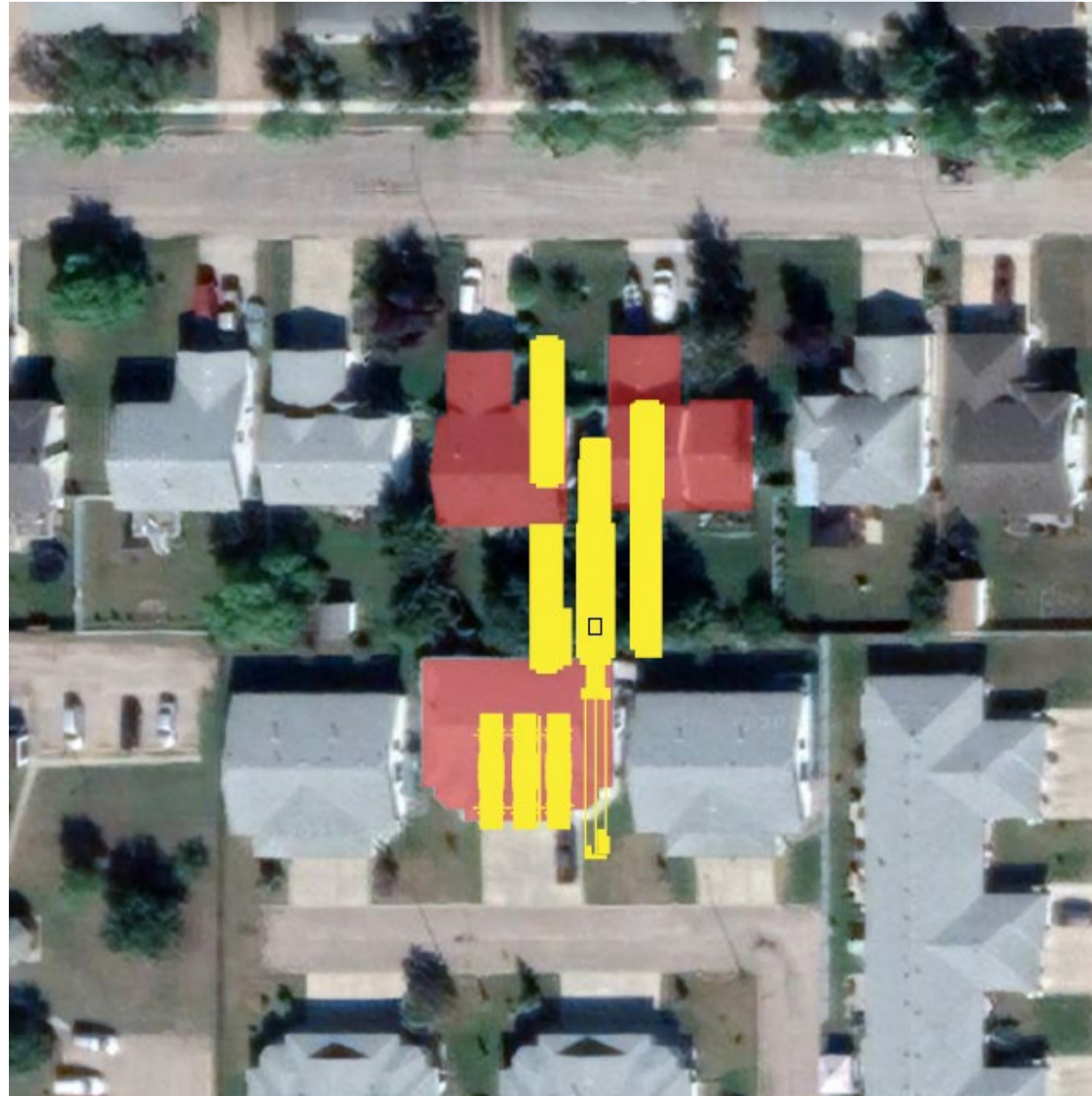
Well site

To be
removed

Rig Access
to Site

Decommissioning Program Details (Continued)

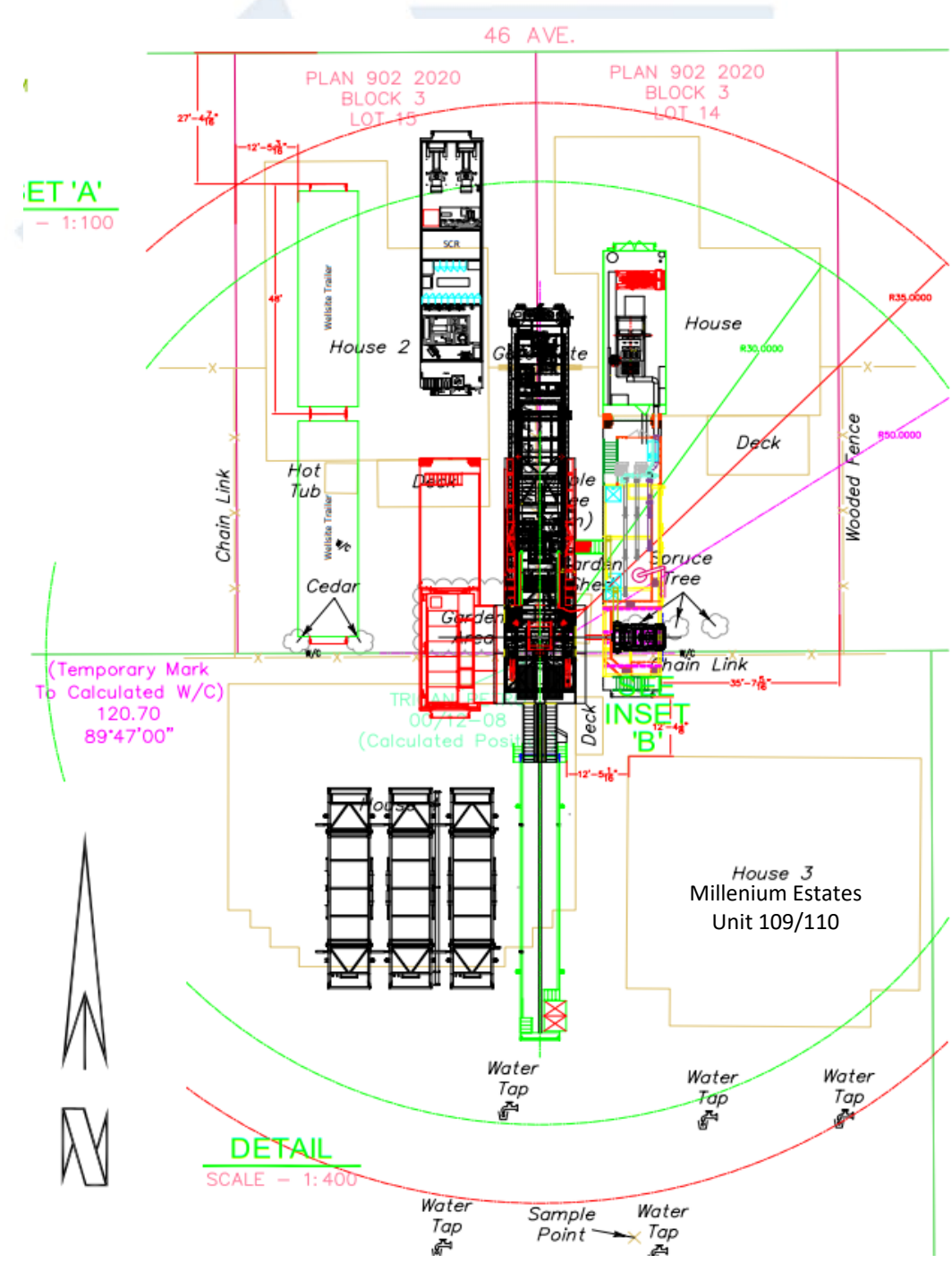
- **Phase #3**
Well Decommissioning
(planned for July/August 2025)
 - Drill rig being used – most effective tool
 - 24-hour operation for ~ 2-3 days
 - Services in and out of location



Example drilling rig layout



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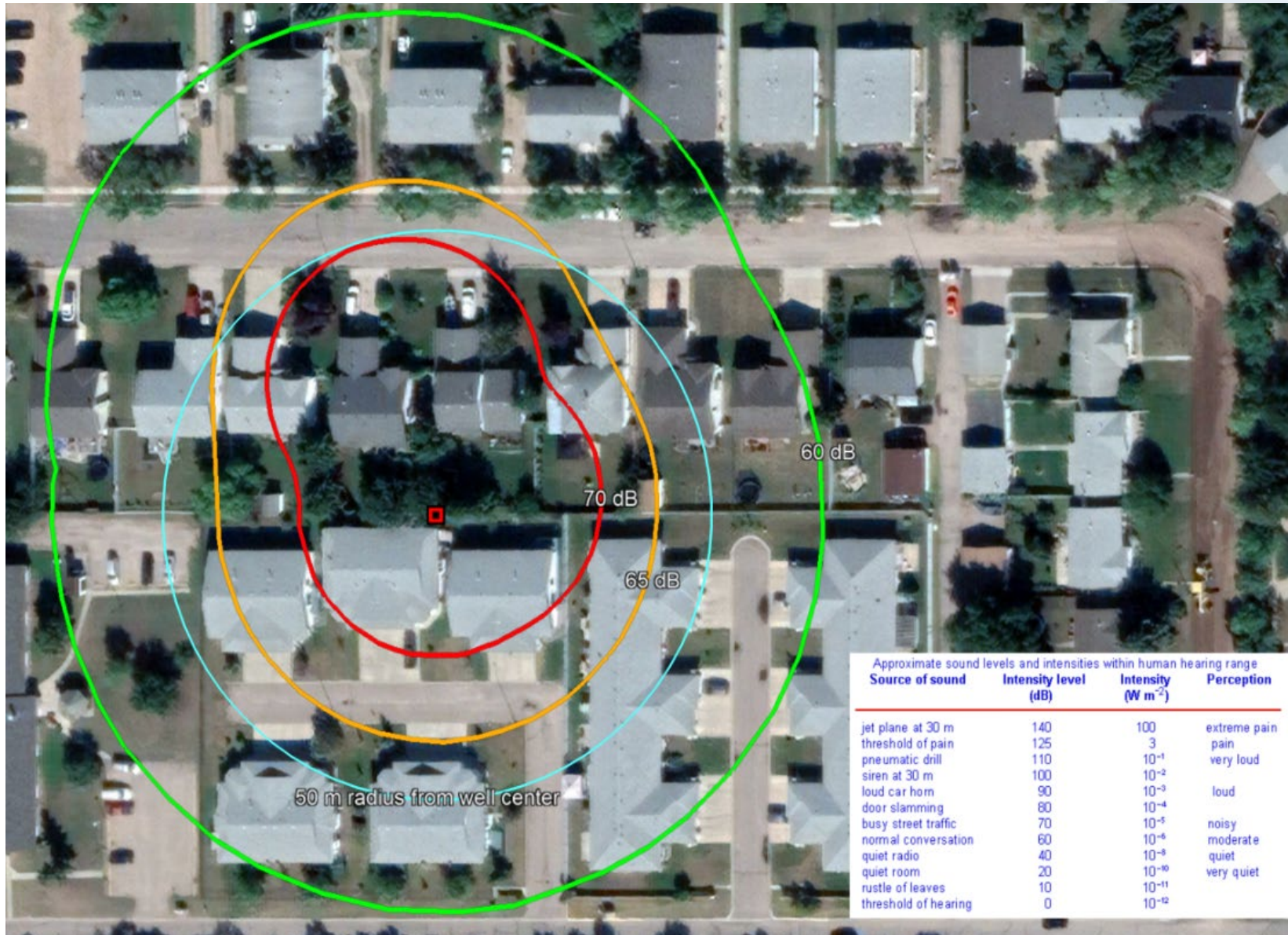


Decommissioning Program Details (Continued)

- **Phase #4 – Well / Soil Gas Monitoring**
 - Soil and indoor air will continue to be monitored to ensure public safety and confirm repair was successful
 - Site will be fenced / maintained
- **Phase #5 – Final Site Landscaping**
 - Well cut and capped ~2m below grade
 - Final use, landscaping, and ownership to be determined



Anticipated Impacts & Mitigation



- **Noise and nighttime lighting**
 - Meetings held with residents in the immediate vicinity of the well
 - Rig will be fitted with mufflers
 - Nighttime traffic reduced with minimum amount of light (stray light minimized)

Anticipated Impacts & Mitigation (Continued)

- **Road use and parking disruptions**
 - Notice to residents on dates of parking restrictions
 - Traffic control/pilots provided during rig move
- **Dust/Mud**
 - Rig matting, road cleaning
- **Diesel exhaust/fumes**
- **Utility impacts**
 - Pad build-up to protect pipelines
- **Potential damage to roads, sidewalks and other**
 - Rig matting
 - Minimize and repair after operation



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