

Blackrod Insitu Oil Sands Pilot Project

Scheme Approval No. 11522H

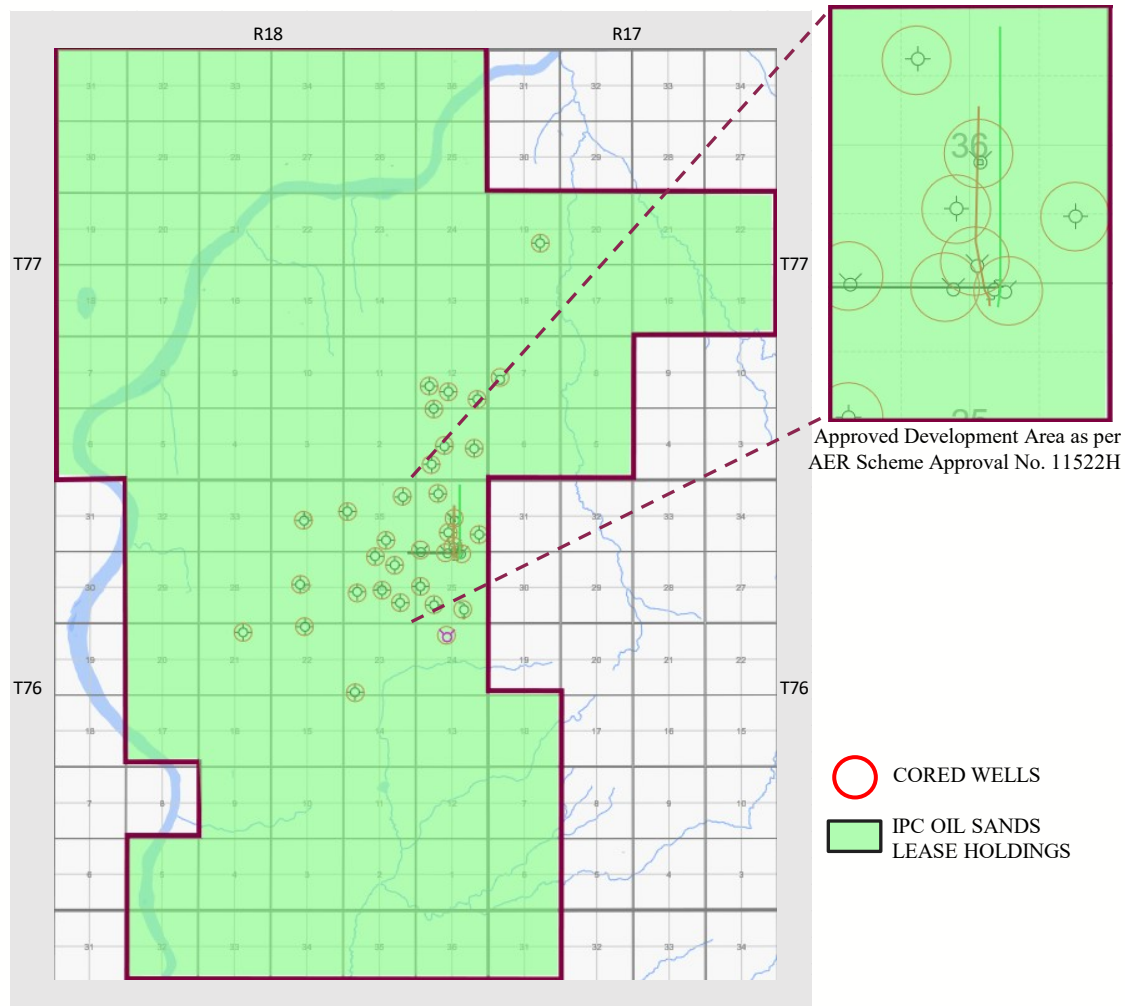
2020 Annual Performance Presentation



Introduction

Directive 54: Section 4.1

Overview



- AER Scheme Approval No. 11522H
- One (1) Operating SAGD Well Pair
- Portage area on Oil Sands Lease 7407060158
- Pilot site located in 02-36-076-18W4
- Target formation is the Lower Grand Rapids Unit 1 (L.GR1)
- Initial reservoir data:
 - Pressure: 1700 KPA
 - Temperature: 13°C
 - Depth: 300m
- Traditional SAGD recovery process
- IPC is the 100% W.I. Owner



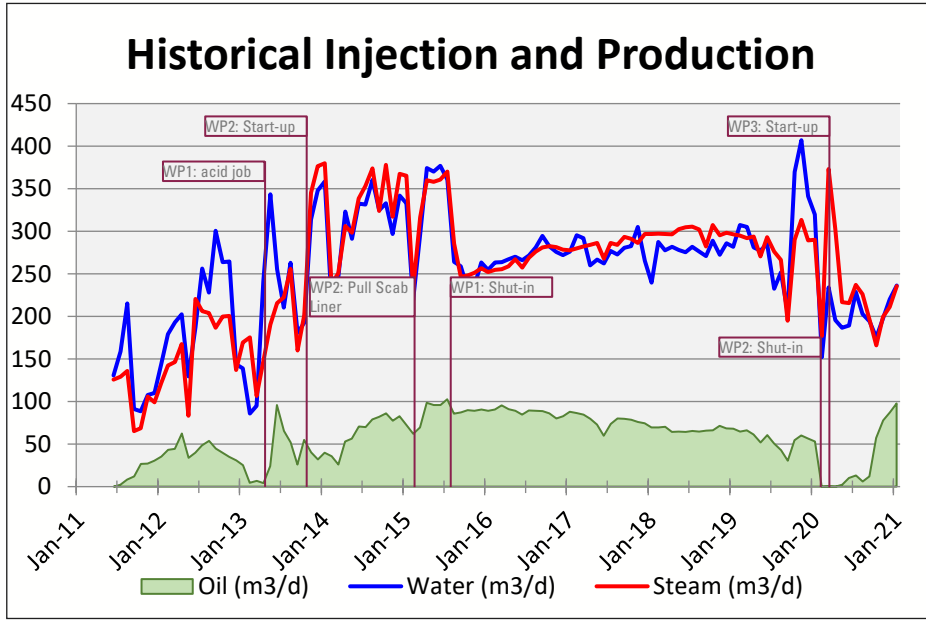
➤ Project History:

- 2011 – Constructed Blackrod facility and start Well Pair 1 (WP1)
- 2013 – Commission Well Pair 2 (WP2) facility expansion and start WP2
- 2015 – Shut-in WP1
- 2019 – Drill and complete Well Pair 3 (WP3)
- 2020 – Shut-in WP2 and start WP3



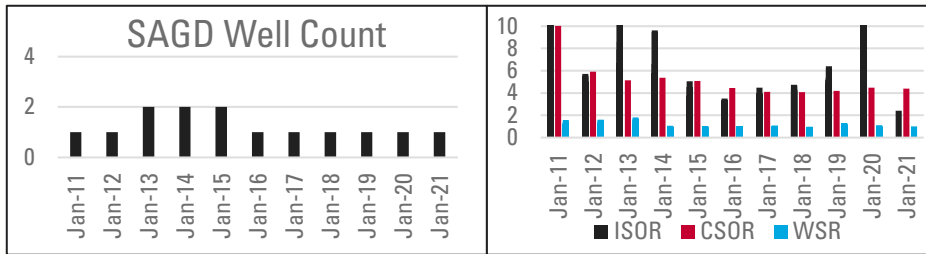
Subsurface

Directive 54: Section 4.2



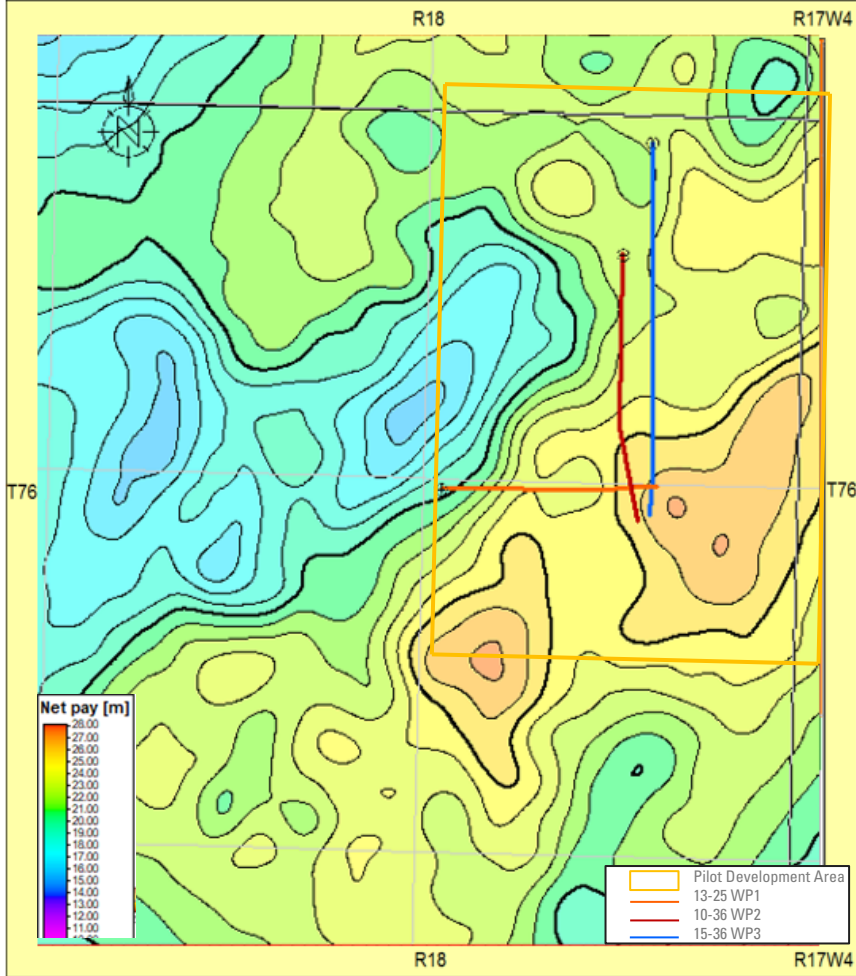
2020 Highlights

- February - Shut-In WP2 and commence WP3 circulation phase
- September - Converted WP3 to production phase



Development Maps

Net Pay Map

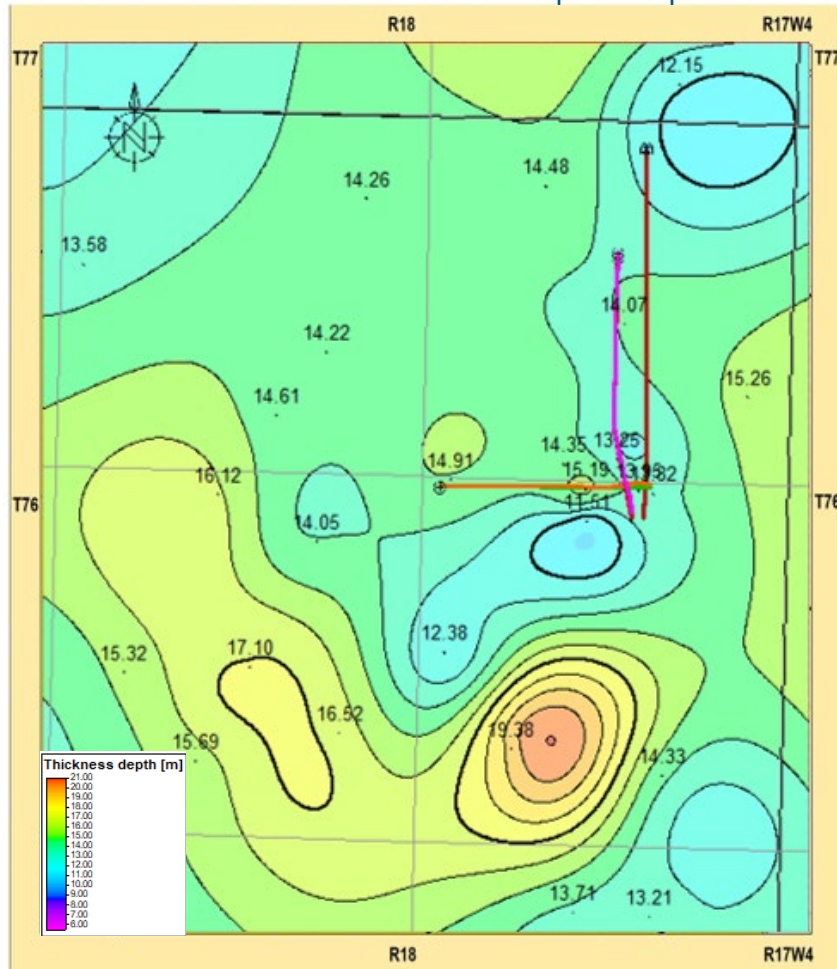


LOG CUTOFFS

- Gamma Ray <75 API
- Resistivity >20 Ohm.m
- Porosity >33%

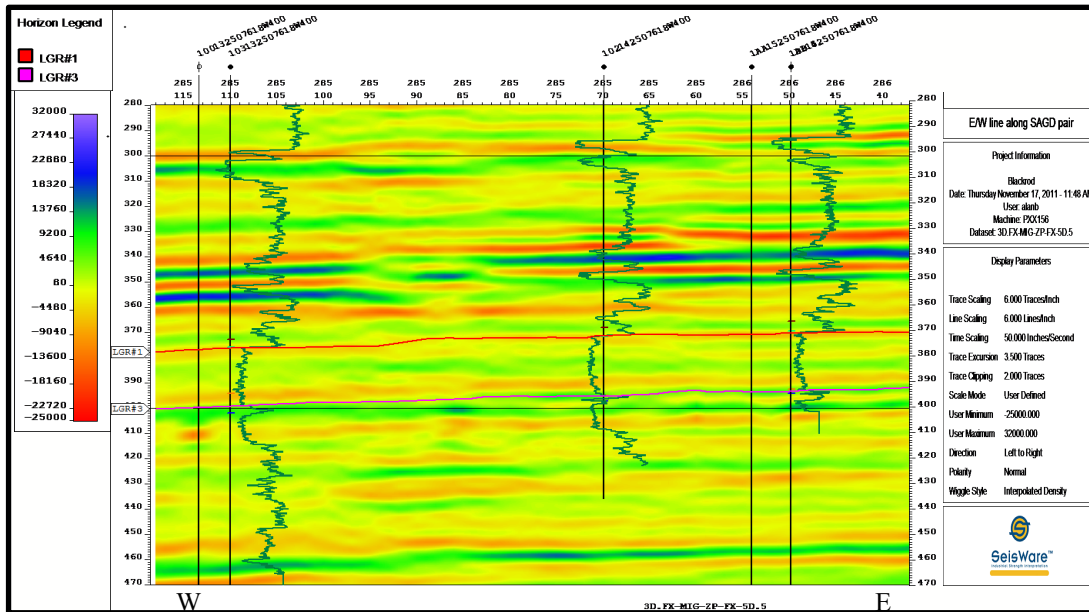
Development Maps

L. GR Unit 3 Bottom Water Isopach Map

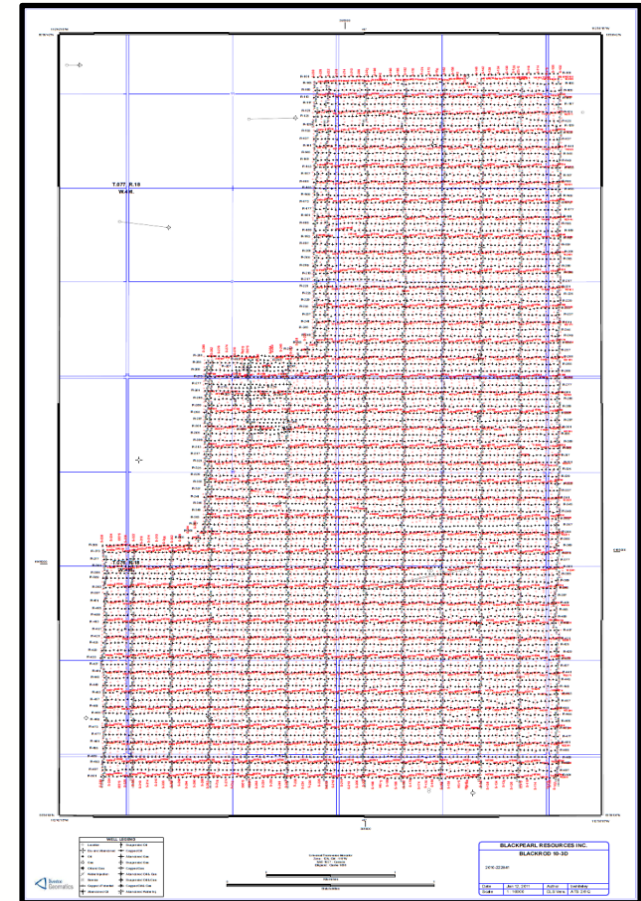


- No major gas intervals in communication with pay within the development area
- No geomechanical anomalies within the development area

3D X-Line along 13-25 WP1



3D Seismic Area Coverage



Original Bitumen in Place and Reservoir Properties

➤ Development Area OBIP

- 19972 Mm³

Well	Area (m ²)	Net Pay thickness (m)	Porosity (%)	S _o (%)	Horizontal Permeability (D)	Vertical Permeability (D)	OBIP (Mm ³)	PBIP (Mm ³)	Cumulative Oil Prod. (Mm ³)	Current Recovery (%)	Estimated Ultimate Recovery (%)
WP3	155000	25	0.63	0.34	3450	3024	830	730	8	1%	55%

Co-Injection

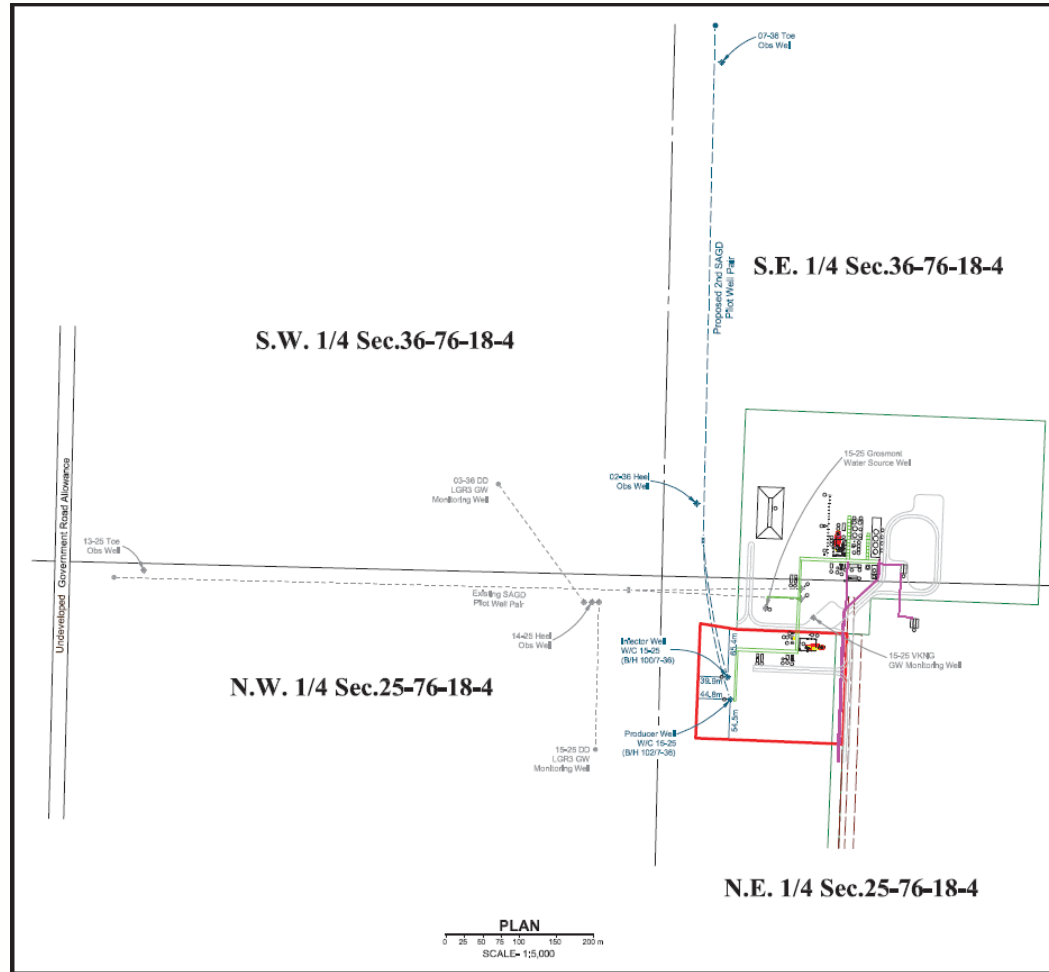
- No Co-Injection has been implemented



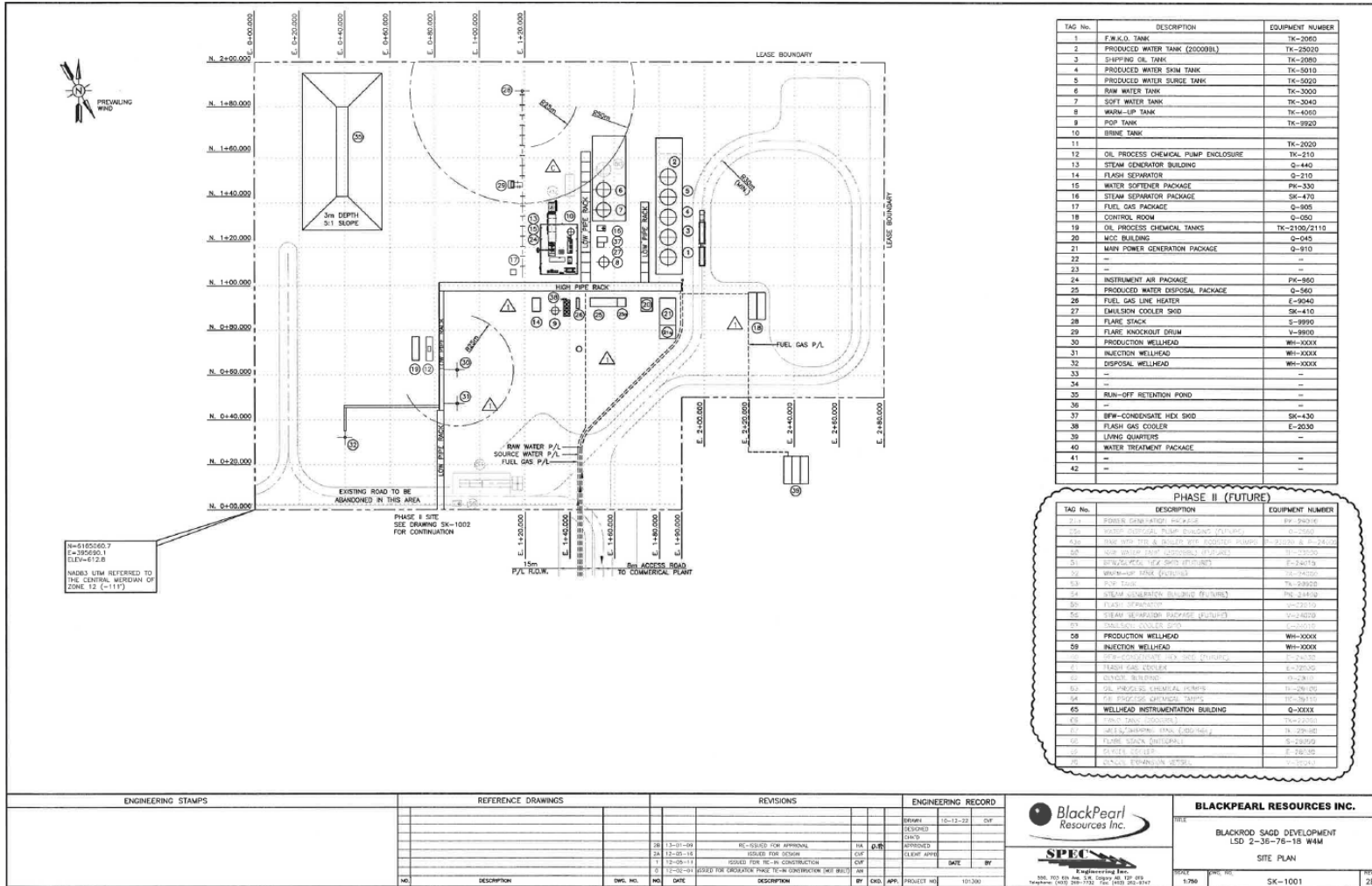
Surface

Directive 54: Section 4.3

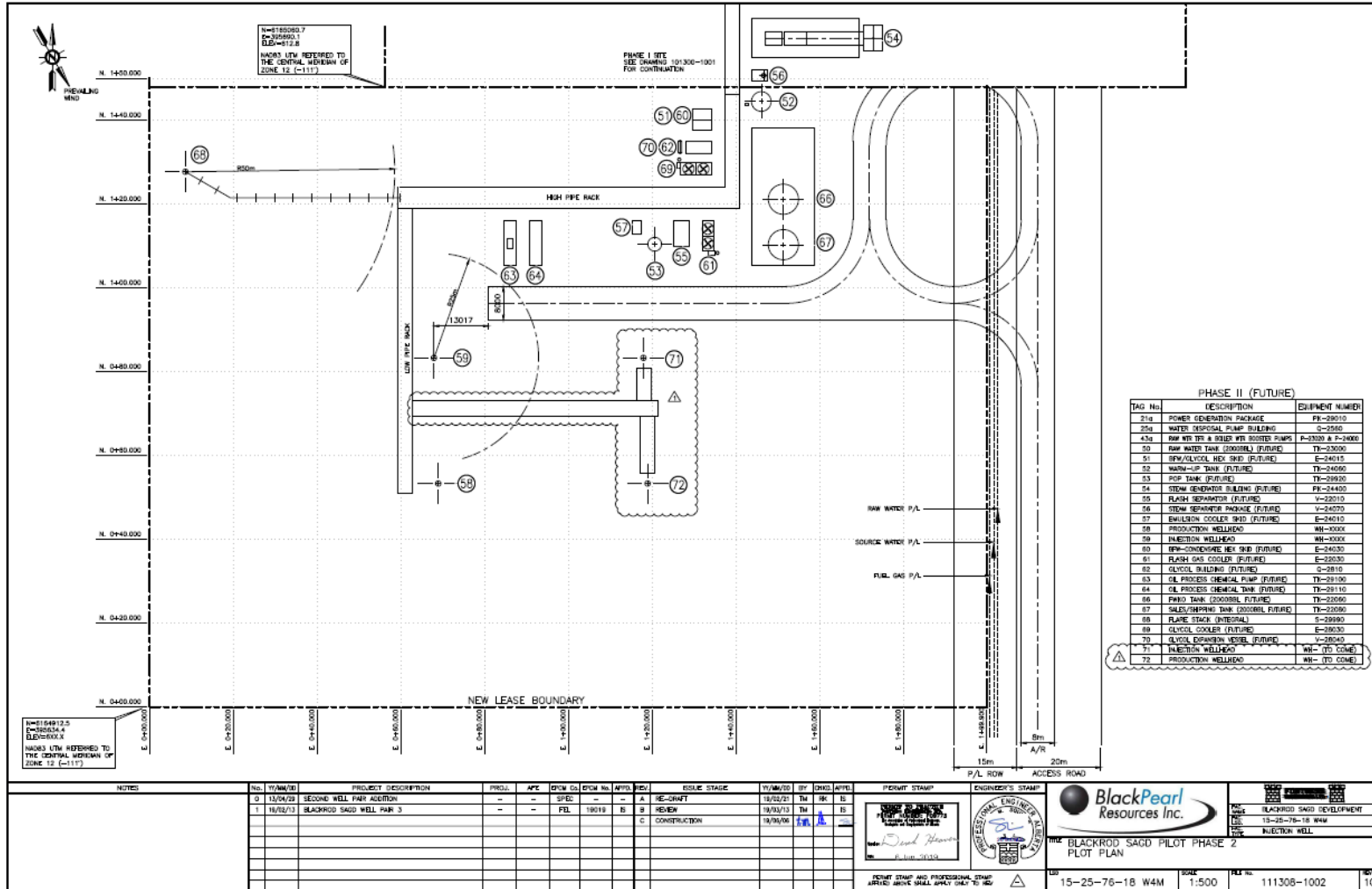
Facility Overview



Plot plan



Plot plan

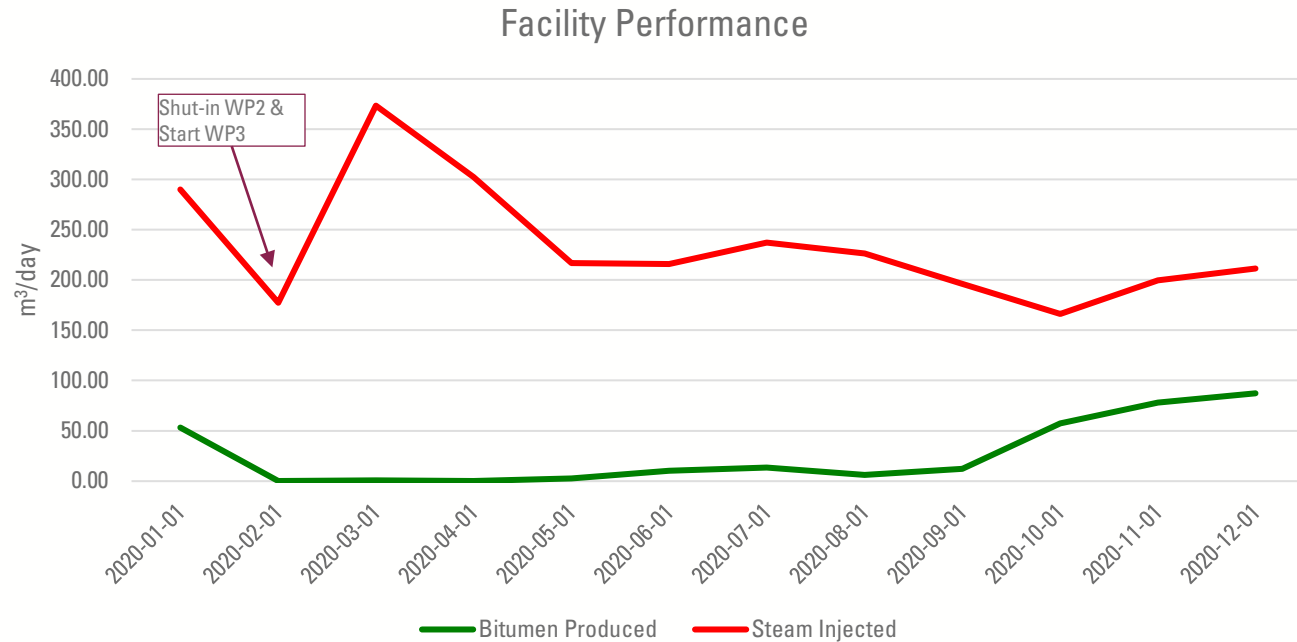


Facility performance

➤ No modifications to the facility that required an AER application approval

➤ Facility Design

- Steam 440m³/d
- Bitumen 160m³/d





History and Upcoming Activity

Directive 54: Section 4.4

Suspension and Abandonment Summary

- Suspended/abandoned wells
 - 10-36-76-18W4 (WP2) Suspended
 - Estimated remaining reserves 160 Mm³
 - WP2 was shut-in to begin circulating WP3
 - WP2 will be re-started with initial commercial well pairs

Recent Regulatory and Operational Changes

- No new applications or amendments made in 2020
- Technical Innovations
 - Trial new produced water treatment technology
 - Made progress on reducing OIW through minor equipment modification and chemical optimization
 - Expecting to re-start trial in July 2021.

Compliance History

- No reportable incidents, self-disclosures, contraventions or corresponding remediation
- To the best of IPC's knowledge, the Blackrod SAGD Pilot Project is currently in full compliance with all conditions and regulatory requirements related to AER Scheme Approval No. 11522H

Future Plans

- Approved Commercial SAGD Application No. 1728831
 - 80,000 bbl/d (12,720 m³/d) to be developed in phases, with the first phase planned for 20,000 bbl/d; two additional phases of 30,000 bbl/d each to follow
- No planned activity expected to significantly alter performance, or material balance of the scheme
- No applications expected to be submitted in the next year

