



Enhanced Oil Recovery (EOR) Application Checklist

Alberta Directive 065 | BCER Special Projects | Saskatchewan PNG008

1. Project Scope and Approval Type

	Checklist item	Notes / N/A
<input type="checkbox"/>	Confirm jurisdiction: Alberta, British Columbia, Saskatchewan, or multiple jurisdictions.	
<input type="checkbox"/>	Confirm application type: new scheme, amendment, injector addition, approval-area change, approval-condition amendment, or termination.	
<input type="checkbox"/>	Identify recovery method: waterflood, gas injection, gas cycling, miscible flood, WAG, polymer/chemical flood, thermal, CO2 EOR, or pressure maintenance.	
<input type="checkbox"/>	Confirm proposed approval holder / operator and affected working-interest parties.	
<input type="checkbox"/>	Confirm proposed approval area and whether it matches expected swept area / project area.	
<input type="checkbox"/>	Confirm injection wells, production wells, observation wells, and any wells to be converted.	
<input type="checkbox"/>	For Alberta, confirm the primary applicant is the proposed approval holder for a new scheme or current approval holder for an existing scheme, and represents all well licensees in the proposed approval area.	

2. Core Data Package

	Checklist item	Notes / N/A
<input type="checkbox"/>	Existing approval number and existing approval conditions, if applicable.	
<input type="checkbox"/>	Pool name, field, formation, legal land descriptions, and well list.	
<input type="checkbox"/>	Injection fluid source, composition, availability, compatibility, and handling requirements.	
<input type="checkbox"/>	Production and injection history, including rates, cumulative volumes, pressures, and existing scheme performance.	
<input type="checkbox"/>	PVT data, fluid properties, reservoir pressure data, and pressure interpretation.	
<input type="checkbox"/>	Reserves / resources estimate and expected incremental recovery basis.	
<input type="checkbox"/>	Proposed start date, implementation schedule, and operating plan.	

3. Geological Requirements

	Checklist item	Notes / N/A
<input type="checkbox"/>	Pool boundary / current pool order or equivalent project-area definition.	
<input type="checkbox"/>	Structure map and reservoir-top / base interpretation.	
<input type="checkbox"/>	Net pay or net reservoir isopach map.	
<input type="checkbox"/>	Representative well logs and formation tops.	
<input type="checkbox"/>	Cross-sections or fence diagrams where needed to support continuity and flow units.	
<input type="checkbox"/>	Reservoir continuity, barriers, faults, fluid contacts, and offset pool/scheme interactions.	
<input type="checkbox"/>	For CO2 EOR storage, confirm containment intervals, caprock / under-	



burden, faulting, and expanded mapping where required.

4. Engineering Requirements

	Checklist item	Notes / N/A
[]	Describe recovery mechanism and why the selected method is appropriate.	
[]	Provide injection pattern / injector-producer relationship and sweep rationale.	
[]	Provide injection and production forecasts.	
[]	Provide voidage replacement / reservoir pressure management strategy, where applicable.	
[]	Provide injectivity support, step-rate / in-situ stress / analogous data, or other MWHIP basis.	
[]	Confirm maximum wellhead injection pressure (MWHIP) basis and operating limits.	
[]	Assess fluid compatibility, scaling, corrosion, sour service, and emulsion / plugging risk where applicable.	
[]	For miscible floods, include miscibility support such as MMP, slim-tube, rising-bubble, or technical justification.	
[]	Confirm wellbore configuration: casing, tubing, packer depth, completion interval, and conversion work.	

5. Alberta Directive 065 Notification Checklist

Before filing: Directive 065 requires ER notification to be completed before submitting the ER application. Notification must include scheme details such as the approval area, type of ER scheme, and injection well locations. If there are unresolved concerns, include a Licensee Concerns attachment.

	Checklist item	Notes / N/A
[]	Prepare notification package with approval area, type of ER scheme, proposed injection well locations, injection intervals, and contact information.	
[]	Identify all licensees of abandoned wells that penetrated the pool and licensees of wells completed in the pool within the required notification area.	
[]	Identify all well licensees in the proposed approval area and confirm the primary applicant has the right to represent them.	
[]	Provide direct written notification before filing the application.	
[]	Allow minimum response period under Directive 065 notification guidelines before filing.	
[]	Retain notification list, notification document, proof of delivery / correspondence, responses, comments, and concerns.	
[]	Confirm whether special circumstances may expand notification requirements, such as pressure communication between pools through a common aquifer.	
[]	Prepare Licensee Concerns attachment if any concerns or objections remain unresolved.	

Alberta Minimum Notification Categories

Application type	Parties to notify	Area of notification/contact
New EOR scheme	Licensees of abandoned wells that penetrated the pool; licensees of wells completed in the pool.	Applied-for approval area and area within one quarter section of the applied-for approval area.
EOR scheme amendment	Licensees of abandoned wells that penetrated the pool; licensees of wells completed in the pool.	Applied-for approval area and area within 800 m of any proposed enhanced oil recovery injector.
New CO2 EOR storage scheme	Licensees of abandoned wells that penetrated the pool; licensees of wells completed in the pool.	AER-designated pool.
CO2 EOR storage amendment	Licensees of abandoned wells that penetrated the pool; licensees of wells completed in the pool.	Applied-for approval area and area within 1.6 km of any proposed enhanced oil recovery injector.
New gas cycling scheme	Licensees of abandoned wells that penetrated the pool; licensees of wells completed in the pool.	Applied-for approval area and area within one section of the applied-for approval area.



Gas cycling amendment	Licensees of abandoned wells that penetrated the pool; licensees of wells completed in the pool.	Applied-for approval area.
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6. Jurisdiction-Specific Regulatory Checks

Jurisdiction	Confirm before submission
Alberta	Directive 065 ER application form / Schedule 1, approval-area map, attachments, notification of well licensees, unresolved Licensee Concerns attachment if needed, MWHIP basis, and Directive 051 requirements before injection.
British Columbia	BCER Pressure Maintenance / Improved Recovery Special Project application, project maps, reservoir description, injection plan, wellbore integrity, proposed MWHIP, consultation, and interested-party statements where applicable.
Saskatchewan	Directive PNG008 injection-well requirements, MWHIP, logging/testing, completion and operating requirements, measurement/reporting, and applicable offset mineral owner/operator notification.

7. Stakeholder and Notification Review

	Checklist item	Notes / N/A
<input type="checkbox"/>	Identify all affected well licensees / permit holders / operators.	
<input type="checkbox"/>	Identify offset operators, mineral owners, working-interest owners, and subsurface rights that may be affected.	
<input type="checkbox"/>	Confirm required notification area and notification package for the jurisdiction.	
<input type="checkbox"/>	Track responses, objections, and unresolved concerns.	
<input type="checkbox"/>	Prepare response strategy for pressure communication, equity, sweep, lease-line, or offset production concerns.	

8. Submission QA/QC

	Checklist item	Notes / N/A
<input type="checkbox"/>	All forms complete and internally reviewed.	
<input type="checkbox"/>	Maps are legible, current, and match requested approval area.	
<input type="checkbox"/>	Well list matches application forms and attachments.	
<input type="checkbox"/>	Injection interval, completion details, and wellbore data are consistent across all documents.	
<input type="checkbox"/>	MWHIP basis is clearly stated and supported.	
<input type="checkbox"/>	Notification evidence and unresolved concerns are included where required.	
<input type="checkbox"/>	Engineering, geology, and regulatory sections have been cross-checked for consistency.	
<input type="checkbox"/>	Final package saved in project folder with source data and calculation files.	

9. Post-Approval / Operating Items

	Checklist item	Notes / N/A
<input type="checkbox"/>	Confirm approval conditions before commencing injection.	
<input type="checkbox"/>	Confirm Directive 051 / wellbore logging and testing requirements are met, where applicable.	
<input type="checkbox"/>	Set up pressure, injection, production, and volume tracking.	
<input type="checkbox"/>	Track injection pressure against approved MWHIP.	
<input type="checkbox"/>	Prepare required progress reports, annual reports, or regulator submissions.	
<input type="checkbox"/>	Review performance and amend scheme if operating conditions, wells, area, or injection fluid changes.	