

Resources

Enhanced Recovery (ER) Scheme

DA	Υ	MONTH	YEAR		APPLICANT'S REFERENCE
				information provided here and in all supporti y requirements or as directed by the Energy	
1	AP	PLICATIO	N TYPE		
1.	Тур	e of ER so	cheme being prop	posed or amended:	
		Waterfloo	od		
		Immiscib	le gas/Solvent flo	boc	
		Miscible t	flood		
		Gas cycli	ing		
		Other			
2.		nis applicat scheme ap		R scheme or an amendment to an existing	New □ Amendment □
	· р		Section 2; do not s required: Isopa	answer questions 3 and 4; ch Map, Well Log(s), Pressure Data, and	
3.	Wh	at is the ex	kisting ERCB app	proval number proposed for amendment?	
4.	Тур	e of amen	dment:		
		Add injec	tion well location	n(s)	
		Amend a	pproval area		
		Amend a	pproval condition	าร	
		Scheme	termination		
	٠	you must r		location(s)" only, ions in Sections 2, 3, and 5. Do not respond area" only	to questions in Section 4.

· you must respond to questions in Section 2, 3, 4, and 5.

If you select "Add injection well location(s)" and "Amend approval area,"

If you select "Amend approval conditions" only,

you must respond to questions in Section 2 and 5. Do not respond to questions in Sections 3 and 4.

you must respond to questions in Sections 2, 4, and 5. Do not respond to questions in Section 3.

If you select "Scheme termination" only,

 you must respond to questions in Section 2 and 5. Do not respond to questions in Sections 3 and 4 or question 18 in Section 5.

OWNERSHIP AND NOTIFICATION INFORMATION		
	Yes □	No □
well licensees has been completed in accordance with <i>Directive 65</i> .		
Has notification been completed in accordance with <i>Directive 65?</i> If your answer is "No," you cannot submit this application.	Yes □	No □
Are there outstanding concerns from well licensees?	Yes □	No □
If yes, the Licensee Concerns attachment must be submitted as part of the application, in accordance with <i>Directive 65</i> .		
PROPOSED INJECTION WELL LOCATIONS AND INJECTION INTERVALS		
An ER scheme application cannot be submitted unless the proposed injection wells have been drilled. Have the proposed injection wells been drilled? If your answer is "No," you cannot submit this application.	Yes □	No □
An ER scheme application cannot be submitted unless the source of the proposed injection fluid has been secured. Has the source of the proposed injection fluid been secured?	Yes □	No □
	The primary applicant must a) be the proposed approval holder for a new scheme or the current approval holder for an existing scheme, and b) represent all well licensees in the proposed approval area. Have these requirements been met? If your answer is "No," you cannot submit this application. An ER scheme application cannot be submitted until notification of all well licensees has been completed in accordance with Directive 65. Has notification been completed in accordance with Directive 65? If your answer is "No," you cannot submit this application. Are there outstanding concerns from well licensees? If yes, the Licensee Concerns attachment must be submitted as part of the application, in accordance with Directive 65. PROPOSED INJECTION WELL LOCATIONS AND INJECTION INTERVALS An ER scheme application cannot be submitted unless the proposed injection wells have been drilled. Have the proposed injection wells been drilled? If your answer is "No," you cannot submit this application. An ER scheme application cannot be submitted unless the source of the proposed injection fluid has been secured.	The primary applicant must a) be the proposed approval holder for a new scheme or the current approval holder for an existing scheme, and b) represent all well licensees in the proposed approval area. Have these requirements been met? If your answer is "No," you cannot submit this application. An ER scheme application cannot be submitted until notification of all well licensees has been completed in accordance with Directive 65. Has notification been completed in accordance with Directive 65? If your answer is "No," you cannot submit this application. Are there outstanding concerns from well licensees? Yes □ If yes, the Licensee Concerns attachment must be submitted as part of the application, in accordance with Directive 65. PROPOSED INJECTION WELL LOCATIONS AND INJECTION INTERVALS An ER scheme application cannot be submitted unless the proposed injection wells have been drilled. Have the proposed injection wells been drilled? If your answer is "No," you cannot submit this application. An ER scheme application cannot be submitted unless the source of the proposed injection fluid has been secured.

10. Provide the following for the proposed injection well locations:

Well Licence Number	Unique Well Identifier (UWI)	Injection Interval (TVD mKB)	Porosity Interval (TVD mKB)	Fluid Interface (TVD mKB) if applicable	
	LE LSD SEC TWP RG MER ES	Top Base	Top Base	Gas/Oil Oil/Water	

11.	vvna	what type of injection fluid, as identified by <i>Directive US1</i> , will be used?					
		Class II – produced water (brine) without H ₂ S					
		Class II – produced water (brine) with H ₂ S					
		Class III – hydrocarbons or other gases without H ₂ S					
		Class III – hydrocarbons or other gases with H ₂ S					
		Class IV – non-saline water					
	-	ou select "Class II – produced water (brine) without H_2 S" only, lo not respond to question 11a. Proceed to question 12.					
	• 0	by select "Class III – hydrocarbons or other gases without H_2S " only, lo not respond to question 11a, and proceed to question 12.					
	• 0	ou select "Class IV – non-saline water," lo not respond to question 11a, and proceed to question 12.					
11a.	req	n injection fluid contains H_2S and an emergency response plan (ERP) is uired, the ERCB must ensure that an up-to-date ERP is in place prior to its sision on the application.					
	ls a	n ERCB-approved ERP incorporating the proposed scheme in place?	Yes □	No □			
		o, a discussion addressing the status of the ERP must be included in the blication attachment, in accordance with <i>Directive 65</i> .					
12.		injection commence in all proposed injection wells within three months of eipt of approval?	Yes □	No □			
	the	o, a discussion addressing the anticipated commencement of injection and reason for the delay must be included in the Application attachment, in ordance with <i>Directive 65</i> .					

4	PROPOSED APPROVAL AREA		
13.	Is the entire proposed approval area within the ERCB's Pool Order boundary for the subject pool?	Yes □	No □
	If you select "No," you must respond to question 15.		
14.	Does your interpretation of pool extent correspond to the ERCB's Pool Order boundary for the subject pool?	Yes □	No □
	If you select "No," you must respond to question 15.		
15.	Is the difference in pool delineation interpretation pertinent to the proposed ER scheme, in accordance with <i>Directive 65</i> ?	Yes □	No □
	Provide a discussion of the difference in pool delineation and the pertinence to the proposed ER scheme in the Application attachment, in accordance with <i>Directive 65</i> .		
5	SCHEME DETAILS		
16.	Is the scheme area currently administered under good production practice (GPP)?	Yes □	No □
17.	Will produced gas from the ER scheme area be conserved, in accordance with <i>Directive 060</i> requirements?	Yes □	No □
18.	What is the proposed voidage replacement ratio (VRR), on a monthly basis, for the scheme?		
If	The ERCB normally specifies a VRR of 1.0 to fully maintain reservoir pressure. the VRR will not be 1.0, provide a technical justification in the Application attachment, in accordance with <i>Directive 65</i> .		
19.	Is or will any gas-cap gas be produced from the subject pool during the operation of the ER scheme?	Yes □	No □
	If yes, include a discussion on the potential for fluid migration into the gas cap in the Application attachment, in accordance with <i>Directive 65</i> .		
	If you select "No," do not respond to questions 20, 20a, 20b, or 20c.		
20.	Is gas-cap gas currently being produced from the scheme area?	Yes □	No □
	If you select "No," do not respond to questions 20a, 20b, or 20c.		
20a	. Has the appropriate concurrent production (CCP) approval been issued?	Yes □	No □
	If you select "Yes," do not respond to questions 20b or 20c.		
20b	An application for CCP is required. Has an application for CCP been registered?	Yes □	No □
	If you select "No," do not respond to question 20c.		
20c	If yes, provide the CCP application number.		