

Annular Saltwater Disposal Well Permit Application

Office of Conservation Injection & Mining Division P.O. Box 94275

Baton Rouge, LA 70804-9275

UIC-9 TYPE ONLY

1. Applicat	ion to:	″ Initial ″ Repe	Permit ermit				
2. Operato	r's Name and A	ddress:			3. Operate	or Code:	
					4. Phone	()	
			WELL IN	FORMATION			
5. Well Na	me and Number	:			6. Serial N	No.	
7. Field:			8. Parish:		9. Sec.	Twp.	Rng.
10. Location	on Description:					•	
	itude:			Louisiana Lamb (Check One Coord X:		,	
12. WELL [DATA						_
Casing	Hole	Casing	Dep	oth Set	Sacks	Туре	Top of
Size	Size	Weight	Тор	Bottom	Cement	Cement	Cement
				1			†
13. Method	d of Production " Beam F	Pump " :	Submersible Pu	mp " Othe	r		
			WELL E	CONOMICS			
14. Hydrod	carbon Productiobbls oil or cMcf gas/da	condensate/da	у	15. Saltwate	er Production P bbls saltwa	-	
	ere potentially pro	oductive zones	s in this well tha	t have not been to	ested or produ	ced?	" Yes " No

17. Is the well located within the coastal zone? If "yes", Permit # Expiration	Date	" Yes " No
18. Do you operate any other producing wells in this field? If "yes", list wells on a separate attached sheet.		" Yes " No
19. Is development drilling planned by your company in this	field during the next year?	" Yes " No
20. Is the well located over water?		" Yes " No
21. Is the well located in the Atchafalaya Basin or in a wildli If "yes", where is well located?	_	" Yes " No
ALTERNATIVE ME	THODS	
22. Are there any wells on the lease that could be converted If "yes", at what cost? (Attach AFE to substantiate cost)	·	" Yes " No
23. Cost of drilling on-site saltwater disposal well	(Attach AFE to substantiate cost)	
24. Could a Corps of Engineers dredging permit be require disposal?	d to drill or convert a well for saltwater	" Yes " No
25. Are there adjacent saltwater disposal well operators wh saltwater disposal?	no would be willing to consider community	" Yes " No
26. Cost of Off-Site Disposal: A. Trucking/Shipping Cost B. Disposal Cost	Per month Per mor	ıth
27. Agent or contact authorized to act for the operator durin Name:		
Address:		
Phone () The signature below authorizes this agent or contact to s statements in support of this application.	submit additional information as requested and	d to give oral
CERTIFICATION	I BY OPERATOR	
I certify under penalty of law that I have personally example application and all attachments and that, based on my personaible for obtaining the information, I believe that the information are significant penalties for submitting false information, incl	sonal knowledge or inquiry of those individual ormation is true, accurate and complete. I am av	s immediately
28. Name	29. Title	
30. Signature	31. Date	

Form UIC-9 -2- Rev. 01/01

ANNULAR SALTWATER DISPOSAL WELL PERMIT APPLICATION PROCEDURES FOR FORM UIC-9

• These procedures are intended to provide applicants a checklist to be sure all information is provided.

Supporting documentation will be required in the form of attachments. Label each of the attachments by number in the <u>lower right-hand corner</u>; example: "Attachment 2A"

After the Application is reviewed and found to be complete by the Office of Conservation (OC), Injection & Mining (IMD), the applicant will then be notified of the calculated Maximum Authorized Surface Injection Pressure (MASIP) for the well and notified to run the required Radioactive Tracer Survey (RTS). Notification will include OC's Guidelines and Procedure to be used in running the RTS.

The applicant will submit the results of the RTS to OC/IMD for review. If found to be acceptable, a permit to inject fluids will be issued. The permit will also include the "Reporting Requirements" which will tell you what you need to file with the OC/IMD during the operation of the well.

PUBLIC NOTICE: <u>AT LEAST FIFTEEN DAYS PRIOR TO FILING AN APPLICATION</u>, notice of the Application shall be published one time <u>by the applicant</u> in the official state journal, <u>The Advocate</u> (in Baton Rouge). Acceptable wording for such notice is included in this application package as an attachment. <u>Prior to the approval</u> of the permit, the applicant shall submit proof of publication of such notice (Attachment 8) with the OC/IMD.

SUBMIT THE FOLLOWING IN ORDER:

CODIV	'III IIIL	. I OLLC	VVIIVO	IIV <u>ONDER</u> .		
• Fili	ng Fee					
		Check	made ¡	payable to "Office	of C	onservation",
			□ а.	Initial Permit		\$252
			□ b.	Repermit		\$252
•	APPL	ICATIO	N An	nular Saltwater	Dispo	osal Well Permit Application
						e of operator. All items must be answered or noted "N/A"not as part of the Application.
		For Re	epermit	wells, file pg. 1 &	2 of	the Form UIC-9 along with current AFE.
ATTA	CHMEN	NT 1 L	_ocatio	n Plat		
				illing location plat n Attachment 2.	, labe	eled "Attachment 1." It may be a photocopy. This plat may be
ATTA	CHMEN	NT 2 A	Area of	Review		
		A.	1"=10	00'. The AOR m	ap m	map, labeled "Attachment 2A" of a scale no smaller than ust identify, within a one-quarter-mile (1320-ft.) radius of the ocations for the following:
			The pr	roposed disposal	well	

			All display All shu All plu All dry All sou	ducing wells posal/injection wells ut-in wells gged and abandoned wells holes urce water wells (for enhanced recovery) shwater wells
			freshw	e a legend to identify each well and to otherwise clarify the AOR map. Except for vater wells, only information on file with the Office of Conservation and pertinent ation known to the applicant is required to be included on this map.
		В.	freshy long a	rea of Review Well List" (Attachment 2B) that identifies all wells in the AOR except vater wells . Use the enclosed Attachment 2B or you may make up your own list, as all the information is included; label the list, "Attachment 2B". If no wells are found the AOR indicate with "no wells found" on "Attachment 2B".
		C.	Each f on the in the f all the	shwater Well List" (Attachment 2C) identifying the freshwater wells within the AOR. reshwater well shall be identified by owner, type of well, and status of well. If unclear AOR map (Attachment 2A), also describe how each freshwater well can be located field. Use the enclosed Attachment 2C or you may make up your own list, as long as information is included; label the list, "Attachment 2C". If no fresh water wells are within the AOR, indicate with "No wells found" on "Attachment 2C".
A DIL	IGENT	SEARC	H MUS	T BE ATTEMPTED TO LOCATE ALL FRESHWATER WELLS WITHIN THE AOR.
		D.	labele The a	e a laboratory analysis of a water sample from EACH freshwater well, if obtainable, d "Attachment 2D", "Attachment 2E", "Attachment 2F", etc. for each freshwater well. nalysis sheet(s) must identify \(\sigma\) the freshwater well sampled, and, at a num, include measurement of:
				Chloride (mg/1) Total Dissolved Solids (mg/1)
		Provid	de an e	xplanation if samples are not obtainable.
ATTA	CHMEN	NT 3 F	acility	Diagram
		A surfa	ace faci	lity diagram that shows the following, where applicable:
			Tanks Pits Contai Flow li Rig su Pertine	inment levees nes entering and leaving the facility pply well ent buildings narks and other significant structures or features
Tho di	aaram el	nould be	to scale	or reasonably close preferably on 8 1/2" v 11" paper, and labeled "Attachment 3"

ATTACHMENT 4 -- Well Schematic Diagram

		Attach	a schematic diagram of the well, labeled "Attachment 4A".
The s	chemati	c diagra	m(s) should show the following:
	A.	Surfac	e equipment:
			Well head Pressure gauges Flow line diameters at wellhead Monitoring equipment, if used
B.	Subsu	rface e	quipment:
		1.	All casing strings: ☐ Diameter ☐ Weight (per foot) ☐ Depth set (top and bottom) Surface casing must extend at least 100 feet below the USDW.
		2.	☐ Hole (drill bit) diameters
		3.	Cement specifications: ☐ Type of class ☐ Number of sacks ☐ Tops of cement (indicate whether calculated/logged, or to be logged)
		4.	Cement squeeze(s), if any: ☐ Type or class ☐ Number of sacks ☐ Calculated top of cement (to be logged)
		5.	Depths (where applicable): ☐ Total Depth ☐ Drilled-out depth ☐ Plugged-back depth
ATTA	CHMEN	IT 5 S	Sources of Produced Water
	Attach	ment 5	urces of produced water that is to be disposed in the proposed well. Use the enclosed or you may make up your own list, as long as all the information on the enclosed list is and is labeled, "Attachment 5".
ATTA	CHMEN	IT 6 [Disposal Fluid Analysis
	"Attacl		nalysis of a representative sample of the fluid to be injected in the proposed well, labeled ". The analysis sheet must indicate the source \square of the sample and, at a minimum, include of :
		Total [de (mg/l) Dissolved Solids (mg/l)

		Temperature of sample	when specific gravity was measured
ATTA	CHMEN	IT 7 Electric Logs	
			otocopy of an electrical log. The log must be complete from the log heading 0-ft-scale portion is not necessary.
	The Se	erial Number of the well	must be written on the log.
•	which s USDW include must b a shee	shows the base of the de / and deep enough to sed, if necessary, to show the made to locate at least	al log of the subject well and one copy of an electrical log of a nearby well epest USDW. The log should be shallow enough to show the base of the show the proposed disposal zone. Logs of more than one well may be both the lowermost USDW and proposed disposal zone. A diligent search tone log within two miles of the proposed well. If a log is not available, use chment 7" which states, "No well logs are available within a two-mile radius
Indicat	te the fo	ollowing <u>on each</u> log:	
	A.	The base of the lowerm	nost Underground Source of Drinking Water (USDW).
		electric log. Since resist	termined by the deep induction curve, generally the dotted curve, on the tivity changes with temperature and, therefore, depth, an approximate rule determine the lowermost USDW is:
			rface to 1000 feet; 1000 feet to 2000 feet; 2000 feet.
			ndicate higher resistivities than these are considered to be USDW's. Clay resistivities higher than these are not considered USDW's.
	C.	The proposed initial per	rforated interval.
ATTA	CHMEN	IT 8 Public Notice	
	An ori	ginal copy of proof of pu	ublication of the legal notice.
	You wi	ill be billed by the Mornir	ng Advocate for the ad.
	Compl	ete the legal notice attac	chment and send the notice to:
		L F E	The Advocate Legal Ad Department P.O. Box 588 Baton Rouge, LA 70821 225) 388-0128

The Advocate will send you a notarized "Proof of Publication", which is to be labeled, "Attachment 8", and included as part of the Application. If the Proof of Publication is not received when the Application is sent to the OC/IMD, it may be sent later provided you also write the Application No. on Attachment I. The "Application No." can be found on your receipt letter, which you should receive with in two weeks after your Application reaches the

OC/IMD. **ATTACHMENT 9 -- Well History and Work Resume Report** Include a photocopy of \underline{each} Well History and Work Resume Report (Form WH-1) that have previously been filed with the Office of Conservation.

AREA OF REVIEW WELL LIST

Operator		Well Status*:	
Well Name:		Serial No.:	
Total Depth:	feet, Perforated Interval:	to	
Operator		Well Status*:	
Well Name:		Serial No.:	
Total Depth:	feet, Perforated Interval:	to	
Operator		Well Status*:	
Well Name:		Serial No.:	
Total Depth:	feet, Perforated Interval:	to	
Operator		Well Status*:	
Well Name:		Serial No.:	
Total Depth:	feet, Perforated Interval:	to	
Operator		Well Status*:	
Well Name:		Serial No.:	
Total Depth:	feet, Perforated Interval:	to	
Operator		Well Status*:	
Well Name:		Serial No.:	
Total Depth:	feet, Perforated Interval:	to	
*Well Status: Produc	cing, SWD, EOR Injection, Shut-in (future ut	ility) P&A's, etc.	

FRESHWATER WELL LIST

Owner:			
	Status**		
Location:	Status:**		
	Status:**		
Location:			
Owner:			
Туре:*	Status:**	Depth:	
Owner:			
	Status:**		
Location:			
*Type of Well:	PUBLIC SUPPLY, DOMESTIC (supplies one or IRRIGATION (including catfish & crawfish fa OBSERVATION (by a qualified agency or compa (describe).	rming), MONITORING, RIG SUPPLY,	HEAT PUMP SUPPLY
**Status of Well:	ACTIVE (used at least once a month), STANDE (but not plugged).	BY, INACTIVE (but useable with minor wo	rk or effort, ABANDONE

INJECTION FLUID SOURCE WELL LIST

Operator		Operator Code:
Well Name:		Serial No.:
Field:		Formation:
Perforated Interval:	to	
Operator		Operator Code:
Well Name:		Serial No.:
Field:		Formation:
Perforated Interval:	to	
Operator		Operator Code:
Well Name:		Serial No.:
Field:		Formation:
Operator		Operator Code:
Well Name:		Serial No.:
Field:		Formation:
Perforated Interval:	to	
Operator		Operator Code:
Well Name:		Serial No.:
Field:		Formation:
Perforated Interval:	to	

	DTICE
In accordance with the laws of the State of Louisiana and to 30:4, and the provisions of Statewide Order No. 29-B as and the State of Louisiana	
(Company Name and Address)	
	of Canaariatian for a narmit to diapage of calturate
is applying to the Injection and Mining Division of the Office generated from oil and gas production by means of annular	
	r injection into
generated from oil and gas production by means of annular	r injection into, with subsurface injection at
generated from oil and gas production by means of annular	r injection into, with subsurface injection atfeet.
(Company Name and Address)	of Concernation for a narmit to dispose of college
nerated from oil and gas production by means of annular ,Serial No	r injection into, with subsurface injection at

Office of Conservation Injection & Mining Division P.O. Box 94275 Baton Rouge, LA 70804-9275 Re: Annular Disposal Permit Application