OFFICE OF CONSERVATION

CLASS V STORAGE WELL PERMIT APPLICATION

MAILING ADDRESS
OFFICE OF CONSERVATION
617 North 3rd St.
Baton Rouge, LA 70802

UIC-55 Storage

APPLICATION NO.
(FOR OFFICE USE ONLY)

1. **APPLICATION TO** (CHECK ONE):	☐ **CONVERT BRINE EXTRACTION WELL TO STORAGE WELL** ☐ **DRILL NEW STORAGE WELL IN EXISTING CAVERN** ☐ **RE-PERMIT AN EXISTING STORAGE WELL/CAVERN** ☐ **DUALLY PERMIT CLASS V WELL WITH CLASS III (UIC-3 BR ALSO REQUIRED)** ☐ **OTHER:** _____	☐ NEW PROPOSED AREA PERMIT ☐ PREVIOUSLY APPROVED AREA PERMIT ☐ NO PROPOSED AREA PERMIT
2. **WELL TO BE USED FOR STORAGE OF (identify stored material):**		

3. **OFFICE OF CONSERVATION ORDER NO. (IF APPLICABLE):** _____

OPERATOR INFORMATION

4. **OPERATOR NAME**			5. **OPERATOR CODE**
6. **OPERATOR MAILING ADDRESS**	7. **CITY**	8. **STATE**	9. **ZIP CODE**
10. **TELEPHONE NUMBER**	11. **EMAIL ADDRESS**		
12. **FACILITY NAME**			13. **CONTACT NAME**
14. **FACILITY MAILING ADDRESS**	15. **CITY**	16. **STATE**	17. **ZIP CODE**
18. **TELEPHONE NUMBER**	19. **EMAIL ADDRESS**		
20. **PROPOSED WELL NAME AND NUMBER**	21. **SERIAL NUMBER (CONVERSION OR RE-PERMIT ONLY)**		

WELL INFORMATION

The information in boxes 25-34 must match the current Location Plat (Attachment 2) exactly.

22. **SALT DOME FIELD NAME**	23. **FIELD CODE**	24. **SEC**	**TWN**	**RNG**
25. **PARISH NAME**	26. **PARISH CODE**			
27. **LOCATION DESCRIPTION**				

28. **GEOGRAPHIC COORDINATE SYSTEM (NAD 27)** ***REQUIRED***						29. **STATE PLANE COORDINATES (LAMBERT, NAD 27)** ***IF AVAILABLE***			
LATITUDE			**LONGITUDE**			**LAMBERT-X**	**LAMBERT-Y**	☐	**NORTH ZONE**
DEG	MIN	SEC	DEG	MIN	SEC			☐	**SOUTH ZONE**

30. **GEOGRAPHIC COORDINATE SYSTEM (NAD 83)** ***IF AVAILABLE***						31. **STATE PLANE COORDINATES (LAMBERT, NAD 83)** ***IF AVAILABLE***			
LATITUDE			**LONGITUDE**			**LAMBERT-X**	**LAMBERT-Y**	☐	**NORTH ZONE**
DEG	MIN	SEC	DEG	MIN	SEC			☐	**SOUTH ZONE**

PROPOSED WELL CONSTRUCTION INFORMATION

The information in boxes 35-58 must match the information reported on Attachment 6B (Well Construction Diagram) and Attachment 6C (Work Prognosis).

32. **CASING SIZE (IN.)**	33. **HOLE SIZE (IN.)**	34. **CASING WEIGHT**	35. **DEPTH SET**		36. **SACKS CEMENT**	37. **CEMENT CLASS** *or* **YIELD (CU.FT/SACK)**	38. **TOP OF CEMENT DEPTH** *(Indicate if the depth is from a CBL or Calculated)*
			TOP (FT.)	**BOTTOM (FT.)**			

HANGING STRING DATA

39. OD SIZE (IN)	40. WEIGHT (LB/FT)	41. GRADE	42. SETTING DEPTH	
			TOP (FT)	BOTTOM (FT)

43. PACKER (OPTIONAL):	☐ PERMANENT	☐ COMPRESSION	MAKE:	MODEL:	DEPTH SET (FT):
	☐ TENSION	☐ OTHER:			

CAVERN / STORAGE DATA

44. **DEPTH OF PROPOSED INJECTION ZONE:** (FROM TOP OF SALT TO BOTTOM OF CAVERN)	TOP (FT)		BOTTOM (FT)	
45. **DEPTH OF PROPOSED SALT CAVERN:** (FROM TOP OF CAVERN TO BOTTOM OF CAVERN)	TOP (FT)		BOTTOM (FT)	

46. ELEVATION OF DATUM: (AMSL/BMSL)		47. DATUM: ☐ BHF ☐ KB ☐ GL ☐ OTHER		48. DRILLED DEPTH (FT)	
49. DEPTH TO USDW (FT)		50. DEPTH TO TOP OF CAP ROCK (FT)		51. LATEST SONAR DATE	
52. REFERENCE TO E-LOG: (SN)		53. DEPTH TO TOP OF SALT (FT)		54. DEPTH (FT)	
				55. VOLUME (BBLS)	

MECHANICAL DATA

56. FRACTURE PRESSUE OF SALT AT CASING SHOE DEPTH (PSI):	

57. FRACTURE PRESSURE PROJECTED TO THE SURFACE (WITH STORED MATERIAL IN STORAGE) ON THE PRODUCT SIDE OF THE INJECTION STRING. GIVE ALL CALCULATIONS:

58. CONSTITUENTS TO BE STORED AND EXPECTED RANGE OR PERCENTAGE OF EACH CONSTITUENT	

OTHER INFORMATION

If needed, describe in greater detail in the application's technical report.

59. DESCRIBE WHAT MEANS WILL BE (OR HAVE BEEN) USED TO DEMONSTRATE THAT THE WELL AND CAVERN WILL HAVE MECHANICAL INTEGRITY PRIOR TO THE INITIATION OFSTORAGE OPERATIONS:

60. DESCRIBE WELLHEAD PROTECTION FROM MECHANICAL DAMAGE BY TRESPASSERS AND ACCIDENTAL PHYSICAL DAMAGE:

61. DESCRIBE SURFACE STORAGE FACILITIES (TANKS, PITS, ETC.):

62. IS THE PROPOSED WELL, SALT CAVERN, OR SURFACE FACILITY ON INDIAN LANDS OR OTHER LANDS OWNED BY OR UNDER THE JURISDICTION OR PROTECTION OF THE FEDERAL GOVERNMENT?	☐ YES ☐ NO
63. IS ANY CONVENTIONAL MINING (DRY OR ROOM-AND-PILLAR) ACTIVITY OCCURRING OR HAS SUCH ACTIVITY OCCURRED WITHIN THE SALT STOCK REGARDLESS OF DISTANCE TO THE PROPOSED STORAGE CAVERN?	☐ YES ☐ NO
64. IS THE MAXIMUM DIAMETER OF THE PROPOSED STORAGE CAVERN LESS THAN 100 FEET FROM THE PROPERTY BOUNDARY OF THIS APPLICANT?	☐ YES ☐ NO
65. AS MEASURED IN ANY DIRECTION, ARE THE MINIMUM DISTANCES BETWEEN THE WALLS OF THE PROPOSED STORAGE CAVERN AND ADJACENT SALT CAVERNS OR ANY MANMADE STRUCTURES WITHIN THE SALT STOCK LESS THAN 200 FEET?	☐ YES ☐ NO
66. AS MEASURED IN ANY DIRECTION, ARE THE MINIMUM DISTANCES BETWEEN THE WALLS OF THE PROPOSED SALT CAVERN AND THE PERIPHERY OF THE SALT STOCK LESS THAN 300 FEET?	☐ YES ☐ NO
67. HAS ANY PORTION OF THE PROPOSED SALT CAVERN COALESCED OR BEEN PROPOSED TO BE COALESCED WITH AN ADJACENT SALT CAVERN?	☐ YES ☐ NO

PLEASE CHECK EACH BOX THAT CORRESPONDS TO ALL APPLICABLE ATTACHMENTS INCLUDED WITH THIS APPLICATION

- ☐ **FILING FEE**
- ☐ **ATTACHMENT 1 – COPIES OF EXISTING ORDERS AND UIC-FORMS**
- ☐ **ATTACHMENT 2 – LOCATION PLAT**
- ☐ **ATTACHMENT 3 – AREA OF REVIEW**
  - ☐ 3A – MAPS AND RELATED INFORMATION
  - ☐ 3B – MANMADE STRUCTURES LIST (WITHIN SALT STOCK)
  - ☐ 3C – AREA OF REVIEW MAP(S)
  - ☐ 3D – AREA OF REVIEW LISTS (ALL WELLS WITHIN 1,320 FT RADIUS)
  - ☐ 3E – AREA OF REVIEW LIST (WELLS PENETRATING CAP ROCK & SALT)
- ☐ **ATTACHMENT 4 – HYDROLOGY**
  - ☐ 4A – FRESHWATER WELLS MAP
  - ☐ 4B – UNREGISTERED FRESHWATER WELLS LIST
  - ☐ 4C – DNR WATER WELL PRINTOUT
  - ☐ 4D – LABORATORY ANALYSES OF WATER SAMPLES
  - ☐ 4E – SOURCES OF MINING WATER
- ☐ **ATTACHMENT 5 – SURFACE FACILITY DIAGRAM**
- ☐ **ATTACHMENT 6 – WELL DESIGN AND CONSTRUCTION**
  - ☐ 6A – WELLHEAD SCHEMATIC
  - ☐ 6B – WELL CONSTRUCTION DIAGRAM
  - ☐ 6C – WORK PROGNOSIS
  - ☐ 6D – MATERIAL COMPATABILITY REPORT
- ☐ **ATTACHMENT 7 – ELECTRIC LOGS AND SONAR SURVEY REPORTS**
  - ☐ 7A – ELECTRIC LOGS
  - ☐ 7B – SONAR SURVEY REPORTS
- ☐ **ATTACHMENT 8 – CORE SAMPLING STUDY REPORTS**
- ☐ **ATTACHMENT 9 – WELL AND CAVERN MECHANICAL INTEGRITY TESTS**
- ☐ **ATTACHMENT 10 – STRUCTURE MAP AND CROSS-SECTIONS**
- ☐ **ATTACHMENT 11 – TECHNICAL REPORT**
- ☐ **ATTACHMENT 12 – SAFETY PLAN**
- ☐ **ATTACHMENT 13 – SUBSIDENCE MONITORING PLAN**
- ☐ **ATTACHMENT 14 – CLOSURE AND POST-CLOSURE PLANS**
- ☐ **ATTACHMENT 15 – FINANCIAL RESPONSIBILITY**
- ☐ **ATTACHMENT 16 – ADJACENT LANDOWNERS**
- ☐ **ATTACHMENT 17 – WELL HISTORY AND WORK RESUME REPORT**
- ☐ **ATTACHMENT 18 – IT QUESTIONS**
- ☐ **ATTACHMENT 19 – NOTICE OF INTENT**
- ☐ **DUPLICATE COPY OF THE APPLICATION**
- ☐ **ELECTRONIC COPY OF THE APPLICATION**

AUTHORIZED AGENT

68. AGENT OR CONTACT AUTHORIZED TO ACT FOR THE OPERATOR DURING PROCESSING OF THIS APPLICATION.

THE SIGNATURE OF THE OPERATOR CERTIFYING THIS APPLICATION WILL AUTHORIZE THIS AGENT OR CONTACT TO SUBMIT ADDITIONAL INFORMATION AS REQUESTED AND TO GIVE ORAL STATEMENTS IN SUPPORT OF THIS APPLICATION DURING THE APPLICATION REVIEW PROCESS. ANY CORRESPONDENCE (INCLUDING NOTICES OF DEFICIENCIES) GENERATED DURING THE REVIEW PROCESS OF THIS APPLICATION WILL BE SENT TO WHOMEVER IS LISTED IN THIS BOX. THE FINAL WRITTEN DECISION ON THIS APPLICATION WILL BE SENT TO THE OPERATOR NOTED IN BOX 1 OF THIS FORM.

NAME:

COMPANY:

ADDRESS:

PHONE:

EMAIL:

WRITTEN CORRESPONDENCE SHOULD BE SENT TO (CHOOSE ONE): ☐ OPERATOR ☐ AUTHORIZED AGENT

CERTIFICATION BY OPERATOR

The signature below must be obtained from a duly appointed employee of the operating company.

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment (LSA-RS 30:17).

69. NAME (PRINT)	70. TITLE (PRINT)
71. SIGNATURE	72. DATE

MANMADE STRUCTURES WITHIN THE SALT DOME LIST
(List Manmade Structures other than Wells)

OPERATOR CODE	WELL NAME & NO.	SERIAL NUMBER	WELL CAVERN SURFACE LOCATION (NAD-27)		WELL CAVERN BOTTOM HOLE LOCATION (NAD-27)		WELL CAVERN TYPE*	WELL CAVERN STATUS CODE**	EFFECTIVE DATE OF CURRENT STATUS	SPUD DATE	TOTAL DEPTH (FT)	PERFORATED INTERVAL OR INJECTION ZONE (FT).		
			LATITUDE	LONGITUDE	LATITUDE	LONGITUDE						TOP		BOTTOM
	No.												-	
	No.												-	
	No.												-	
	No.												-	
	No.												-	
	No.												-	
	No.												-	
	No.												-	
	No.												-	
	No.												-	
	No.												-	
	No.												-	
	No.												-	
	No.												-	
	No.												-	
	No.												-	
	No.												-	
	No.												-	
	No.												-	

*Well Cavern Type: Class III Brine Solution-Mining Well, Class II Hydrocarbon Storage Well, Class V Storage Well, Other (describe)

**Well Cavern Status Code: Active- Injection (09), Active- Producing (10), Unable to Locate (28), Dry & Abandoned (29), P&A (30), etc.

AREA OF REVIEW WELL LIST (ALL WELLS WITHIN A 1,320 FOOT RADIUS)

SERIAL NUMBER	WELL NAME & NO.	WELL SURFACE LOCATION (NAD-27)		WELL BOTTOM HOLE LOCATION (NAD-27)		DEPTH TO TOP OF SALT (FT)	DEPTH TO BASE OF USDW (FT)	WELL TYPE	WELL STATUS CODE*	EFFECTIVE DATE OF CURRENT STATUS	TOTAL DEPTH (FT)	PERFORATED INTERVAL OR INJECTION ZONE (FT).		
		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE							TOP		BOTTOM
	No.												-	
	No.												-	
	No.												-	
	No.												-	
	No.												-	
	No.												-	
	No.												-	
	No.												-	
	No.												-	
	No.												-	
	No.												-	
	No.												-	
	No.												-	
	No.												-	
	No.												-	
	No.												-	
	No.												-	
	No.												-	
	No.												-	
	No.												-	

*Well Status Code: Active- Injection (09), Active- Producing (10), Unable to Locate (28), Dry & Abandoned (29), P&A (30), etc.

AREA OF REVIEW WELL LIST (ONLY WELLS THAT PENETRATE THE CAP ROCK AND SALT STOCK WITHIN A 1,320 FOOT RADIUS)

OPERATOR CODE	WELL NAME & NO.	SERIAL NUMBER	WELL SURFACE LOCATION (NAD-27)		WELL TYPE	WELL STATUS CODE*	DATE OF THE CURRENT STATUS	SPUD DATE	TOTAL DEPTH (FT)	PERFORATED INTERVAL OR INJECTION ZONE (FT).		
			LATITUDE	LONGITUDE						TOP		BOTTOM
	No.										-	
	No.										-	
	No.										-	
	No.										-	
	No.										-	
	No.										-	
	No.										-	
	No.										-	
	No.										-	
	No.										-	
	No.										-	
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	No.										-	
	No.										-	
	No.										-	
	No.										-	
	No.										-	
	No.										-	
	No.										-	
	No.										-	
	No.										-	

*Well Status Code: Active- Injection (09), Active- Producing (10), Unable to Locate (28), Dry & Abandoned (29), P&A (30), etc.

UNREGISTERED FRESHWATER WELL LIST

☐ **A DILIGENT SEARCH WAS MADE TO LOCATE ALL FRESHWATER WELLS WITHIN ONE-QUARTER MILE RADIUS (1320 FEET) OF THE PROPOSED WELL AND NO WELLS WERE LOCATED.**

☐ **A DILIGENT SEARCH WAS MADE TO LOCATE ALL FRESHWATER WELLS WITHIN ONE-QUATER MILE RADIUS (1320 FEET) OF THE PROPOSED WELL AND THE FOLLOWING WELLS WERE LOCATED.**

OWNER	REGISTRATION NO.	WELL NAME	WELL TYPE*	WELL STATUS**	TOTAL DEPTH (FT)	LOCATION

*Type of Well: PUBLIC SUPPLY, DOMESTIC (supplies one or a few homes), INDUSTRIAL (including commercial), LIVESTOCK, IRRIGATION (including catfish & crawfish farming), MONITORING, RIG SUPPLY, HEAT PUMP SUPPLY, OBSERVATION (by a qualified agency or company), AQUIFER DEWATERING, RECOVERY (of contaminants), Other (describe).

**Status of Well: ACTIVE (used at least once a month), STANDBY, INACTIVE (but useable with minor work or effort), ABANDONED (but not plugged).

ADJACENT LANDOWNERS

LANDOWNER(S)	CONTACT NAME	ADDRESS	CITY	STATE	ZIP CODE	LOCATION RELATIVE TO PROJECT

NOTICE OF INTENT
OFFICE OF CONSERVATION
INJECTION AND MINING DIVISION

In accordance with the laws of the State of Louisiana and the particular reference to the provisions of La R.S. 30:4 et seq., and the provisions of Statewide Order No. 29-M-5 (LAC 43:XVII.Chapter 37) as amended and adopted by the Office of Conservation of the State of Louisiana,

(Company Name)
(Address)
(City, State Zip)
(Phone)

will be applying to the Office of Conservation, Injection and Mining Division for a permit to store **(Product Type)** in a solution-mined salt cavern in the **(Salt Dome Name)** salt dome.

The well is proposed to be in Section **(Section No.)**, Township **(Township)**, Range **(Range)**, **(Field Name)** Field, **(Parish Name)** Parish, Louisiana. The proposed well is identified as the **(Well Name)** Well No. **(Well No.)**, Serial Number **(for Conversions and Repermits Only)**.

The top of the storage cavern is proposed to be at **(Top of Cavern)** feet with its base at **(Bottom of Cavern)** feet.

Once submitted, the application will be available for inspection from 8:00 a.m. to 4:00 p.m., Monday through Friday in the Injection and Mining Division Office, Rm. 817, LaSalle Building, 617 North Third Street, Baton Rouge, LA.

Interested parties may request to receive notice when the application is submitted, be included on the public notice or public hearing mailing list, or address other public participation related questions by contacting the Injection and Mining Division by calling (225) 342-5515, by e-mailing injection-mining@la.gov, or by mailing Office of Conservation, Injection and Mining Division, 617 North 3rd St., Baton Rouge, La, 70802.

When corresponding, please reference the name of the applicant, the well name and number, the well serial number, and the salt dome.