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GOVERNOR

State of Louisiana

ROBERT J. BARHAM
SECRETARY

DEPARTMENT OF WILDLIFE AND FISHERIES
OFFICE OF SECRETARY

Louisiana Natural & Scenic River System **SCENIC RIVER PERMIT #891**

Issue/Effective Date: March 26, 2014

Scenic River: Bayou D'Loutre

Recipient: Southwestern Energy Production Co.
2350 N Sam Houston Parkway E, Ste 125
Houston, TX 77032

Description: Water Withdrawal for Hydraulic Fracturing of an Oil and Gas Well

This permit is issued by authority of Part II of Chapter 8, Title 56 of the LRS of 1950 as amended and re-enacted regarding the Louisiana Natural & Scenic Rivers System and the administrative procedures pertaining to the management of these watercourses designated as Scenic Rivers.

The permit is issued by the Administrator with the understanding that the recipient in implementation of the proposal will proceed in compliance with, and not significantly deviate from the provisions contained in the petition for the permit and any special conditions attached hereto. The permit holder is expected to minimize adverse impacts to the structural and functional integrity of the natural systems and aesthetics associated with the Scenic River where the activity is occurring so as to preserve the fundamental character and purpose for which the System was established.

The Administrator assumes no responsibility for or incurs no liability for any injury to persons or property caused by any act of the permit holder or his agent in the permission granted by this permit. In addition to the Department of Wildlife & Fisheries, the petition was given a full and thorough evaluation by the Louisiana Departments of Agriculture & Forestry; Culture, Recreation & Tourism; Environmental Quality; and the Office of State Planning and Budget. If during the review process objections were made to the proposed activity, those objections were either found to be insignificant or they have been included in the conditions of the permit.

This permit shall expire if the permitted activity has not begun within 18 months of the "Issue Date" indicated above.

Compliance with these conditions is necessary for this permit to be valid:

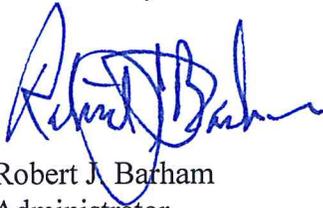
- 1) LDWF reserves authority to call for the immediate cessation of water withdrawal if it is determined it is having significant ecological impact to Bayou D'Loutre.
- 2) In order to verify the minimum allowable flow for withdrawal, a gage stick must be placed at the pull point with a mark at elevation 87.1 (NAVD 88).
- 3) The applicant shall notify LDWF's Keith Cascio (kcascio@wlf.la.gov) and Chris Davis (rcdavis@wlf.la.gov) upon commencement of the water withdrawal and at the conclusion of the water withdrawal.
- 4) The applicant must use ¼" mesh screens, or smaller, on all intake pipes in order to reduce potential losses of aquatic species due to entrainment or impingement.
- 5) The applicant is authorized to use a 4" pump. Anytime that a larger pump is to be used verbal or e-mail authorization must first be obtained from LDWF's Keith Cascio (318-805-2829 or kcascio@wlf.la.gov) or Chris Davis (225-765-2642 or rcdavis@wlf.la.gov).
- 6) Water extracted from water bodies, as well as equipment, should be inspected for presence of invasive aquatic weeds, including but not limited to giant salvinia (*Salvinia molesta*), water hyacinth (*Eichhornia* spp), and Esthwaite Waterweed (*Hydrilla verticallata*), or aquatic animals, such as apple snails (Family *Ampulariidae*), before being brought to the site and before being moved from the site to prevent the transport and spread of such species.
- 7) This project must be carried out in a manner consistent with the design that the applicant submitted during the permit process. Should significant physical modification to the project become necessary during project implementation or after its completion, the permit holder will submit a letter of explanation within one week of discovery to the Administrator to determine if another petition will be required.
- 8) Adequate erosion/sediment control measures are to be taken during the implementation of this project to insure that no sediments or other construction/activity related debris are allowed to enter Bayou D'Loutre.
- 9) If during project activity, any sensitive archaeological, biological or botanical element is encountered, activity will temporarily cease and the permit holder will contact the Administrator to determine the disposition of that element or artifact.
- 10) All other applicable permits not contingent upon this permit from governmental entities will be acquired and their conditions implemented with fidelity. Applicant has title to the property or permission from the landowner to implement the project.

SRP# 891

Page -3-

- 11) Fracing fluids shall not be allowed to enter, either directly or indirectly, any nearby streams, bayous, ponds, lakes or any other surface waters or ground waters.
- 12) The applicant shall contact the Louisiana Department of Natural Resources (LDNR) and comply with any additional requirements they may have concerning the withdrawal and use of surface water. The contact for LDNR is Dr. Thomas Van Biersel, (225-342-1813 or Thomas.VanBiersel@la.gov).

If you need any additional information, you may contact Mr. Keith Cascio, Scenic Rivers Coordinator, in the Monroe Office at (318) 343-4045.



Robert J. Barham
Administrator