

# JOINT PUBLIC NOTICE

United States Army  
Corps of Engineers  
New Orleans District  
Regulatory Branch  
Post Office Box 60267  
New Orleans, Louisiana 70160-0267

January 27, 2014

State of Louisiana  
Department of Environmental Quality  
ATTN: Water Quality Certifications  
Post Office Box 4313  
Baton Rouge, Louisiana 70821-4313

(504) 862-1577  
Project Manager  
Amy Oestringer  
Amy.L.Oestringer@usace.army.mil  
Permit Application Number  
MVN 2013-2718-CL

(225) 219-3225  
Project Manager  
Elizabeth Johnson  
WQC Application Number  
140115-02

Interested parties are hereby notified that a permit application has been received by the New Orleans District of the U.S. Army Corps of Engineers pursuant to:  
[ ] Section 10 of the Rivers and Harbors Act of March 3, 1899 (30 Stat. 1151; 33 USC 403); and/or  
[X] Section 404 of the Clean Water Act (86 Stat. 816; 33 USC 1344).

Application has also been made to the Louisiana Department of Environmental Quality, for a Water Quality Certification (WQC) in accordance with statutory authority contained in LRS30:2047 A(3), and provisions of Section 401 of the Clean Water Act (P.L.95-17).

## **3-D SEISMIC SURVEY IN LIVINGSTON PARISH**

**NAME OF APPLICANT:** Western Geco, c/o St. Croix Seismic, Attn: Lesle Wright, Post Office Box 190, Gordon, Wisconsin 54838.

**LOCATION OF WORK:** Located within a 6.2-square mile area, North of I-12, in Louisiana, in Livingston Parish, Lake Pontchartrain Basin, Hydrologic Unit Code 08070203, as shown on the enclosed drawings.

**CHARACTER OF WORK:** Conduct a 3-D seismic survey to provide a high-resolution image of subsurface geological features. Receiver and source lines will be positioned in preparation for the drilling phase and will include hand clearing for access. The drilling phase will consist of drilling approximately (202) 4.25-inch diameter shot holes along the source lines to a depth of up to 60 feet and placing a charge on the bottom with gravel, bentonite, drill cuttings and plugs. The acquisition phase will consist of the deployment of geophones along the receiver lines. Once in place, the charges will be detonated and the energy recorded through the cables for processing, as shown on the attached drawings. Approximately 435 locations will be surveyed by vibrating trucks located on existing roads. The vibration method will be used at locations where shot hole methods cannot be safely used (near homes, wells, pipelines, etc.). There are no permanent impacts proposed to wetlands, therefore no compensatory mitigation will be required.

The comment period for the Department of the Army Permit and the Louisiana Department of Environmental Quality WQC will close **20 days** from the date of this joint public notice. Written comments, including suggestions for modifications or objections to the proposed work, stating reasons thereof, are being solicited from anyone having interest in this permit and/or this WQC request and must be mailed so as to be received before or by the last day of the comment period. Letters concerning the Corps of Engineers permit application must reference the applicant's name and the Permit Application Number, and be mailed to the Corps of Engineers at the address above, **ATTENTION: REGULATORY BRANCH**. Individuals or parties may request an extension of time in which to comment on the proposed work by writing or e-mailing the Corps of Engineers Project Manager listed above. Any request must be specific and substantively supportive of the requested extension, and received by this office prior to the end of the initial comment period. The Section Chief will review the request and the requestor will be promptly notified of the decision to grant or deny the request. If granted, the time extension will be continuous to the initial comment period and, inclusive of the initial comment period, will not exceed a total of 30 calendar days. Letters concerning the Water Quality Certification must reference the applicant's name and the WQC Application number and be mailed to the Louisiana Department of Environmental Quality at the address above.

The application for this proposed project is on file with the Louisiana Department of Environmental Quality and may be examined during weekdays between 8:00 a.m. and 4:30 p.m. Copies may be obtained upon payment of costs of reproduction.

### **Corps of Engineers Permit Criteria**

The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The U.S. Army Corps of Engineers is soliciting comments from the public, federal, state, and local agencies and officials, Indian Tribes, and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the U.S. Army Corps of Engineers to determine whether to make, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

No properties listed on the National Register of Historic Places are near the proposed work. The possibility exists that the proposed work may damage or destroy presently unknown archeological, scientific, prehistorical, historical sites, or data. Copies of this notice are being sent to the State Archeologist and the State Historic Preservation Officer.

Our initial finding is that the proposed work would neither affect any species listed as endangered by the U.S. Departments of Interior or Commerce, nor affect any habitat designated as critical to the survival and recovery of any endangered species.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. The applicant's proposal would result in the destruction or alteration of n/a acres of EFH utilized by various life stages of red drum and penaeid shrimp. Our initial determination is that the proposed action would not have a substantial adverse impact on EFH or federally managed fisheries in the Gulf of Mexico. Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the National Marine Fisheries Service.

If the proposed work involves deposits of dredged or fill material into navigable waters, the evaluation of the probable impacts will include the application of guidelines established by the Administrator of the Environmental Protection Agency. Also, a certification that the proposed activity will not violate applicable water quality standards will be required from the Department of Environmental Quality, before a permit is issued.

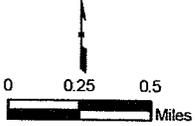
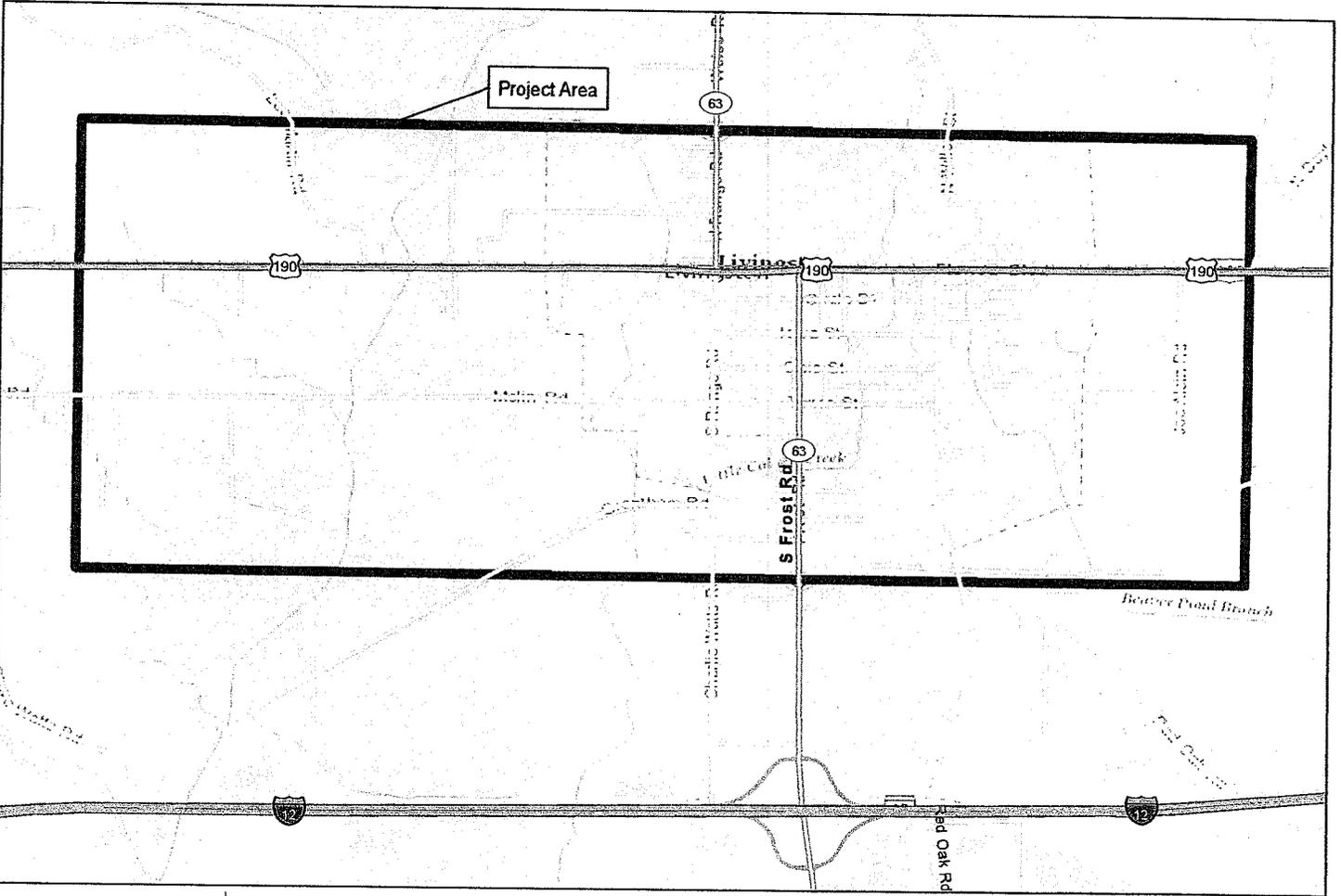
Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

You are requested to communicate the information contained in this notice to any other parties whom you deem likely to have interest in the matter.

John M. Herman  
Chief, Central Evaluation Section

Enclosure

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— Project Boundary

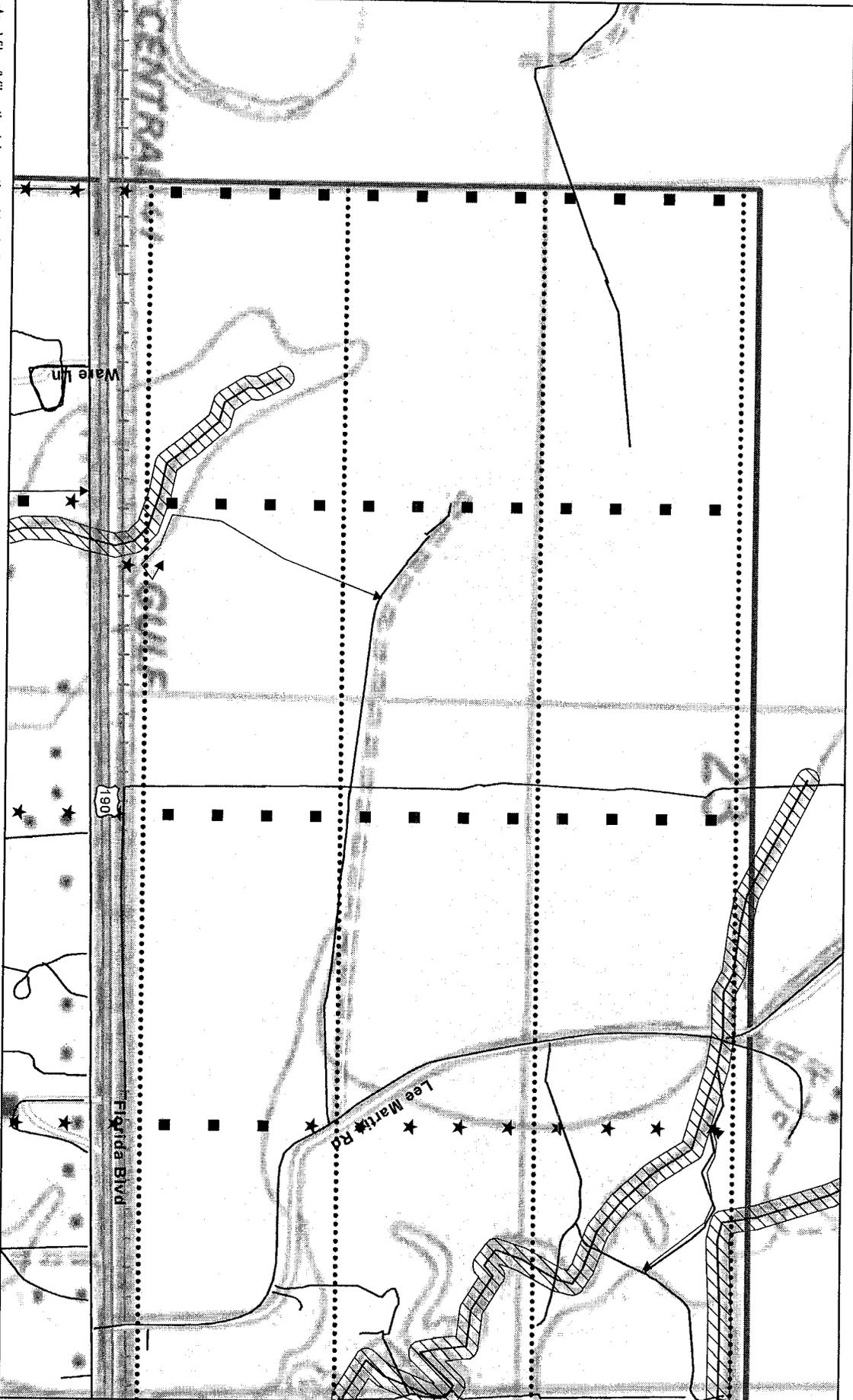
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**LIVINGSTON 3D SEISMIC SURVEY**  
LIVINGSTON, LOUISIANA

VICINITY MAP

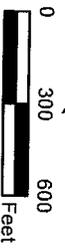
FILE: g3blkr011.MXD	DATE: 11/21/2013	FIGURE: 1 of 15
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- ★ Vibe (Vibration) Location North-South Transect Line (6-ft hand clearing path where necessary)
- Sensor Receiver East-West Transect Line (3-ft hand clearing path where necessary)
- Change Location North-South Transect Line (6-ft hand clearing path where necessary)
- (No Excavation or Fill Needed For Access or to Establish Transect Lines)

1	2	3	4	5	6	7	8	9	10	11	12	13
1	2	3	4	5	6	7	8	9	10	11	12	13

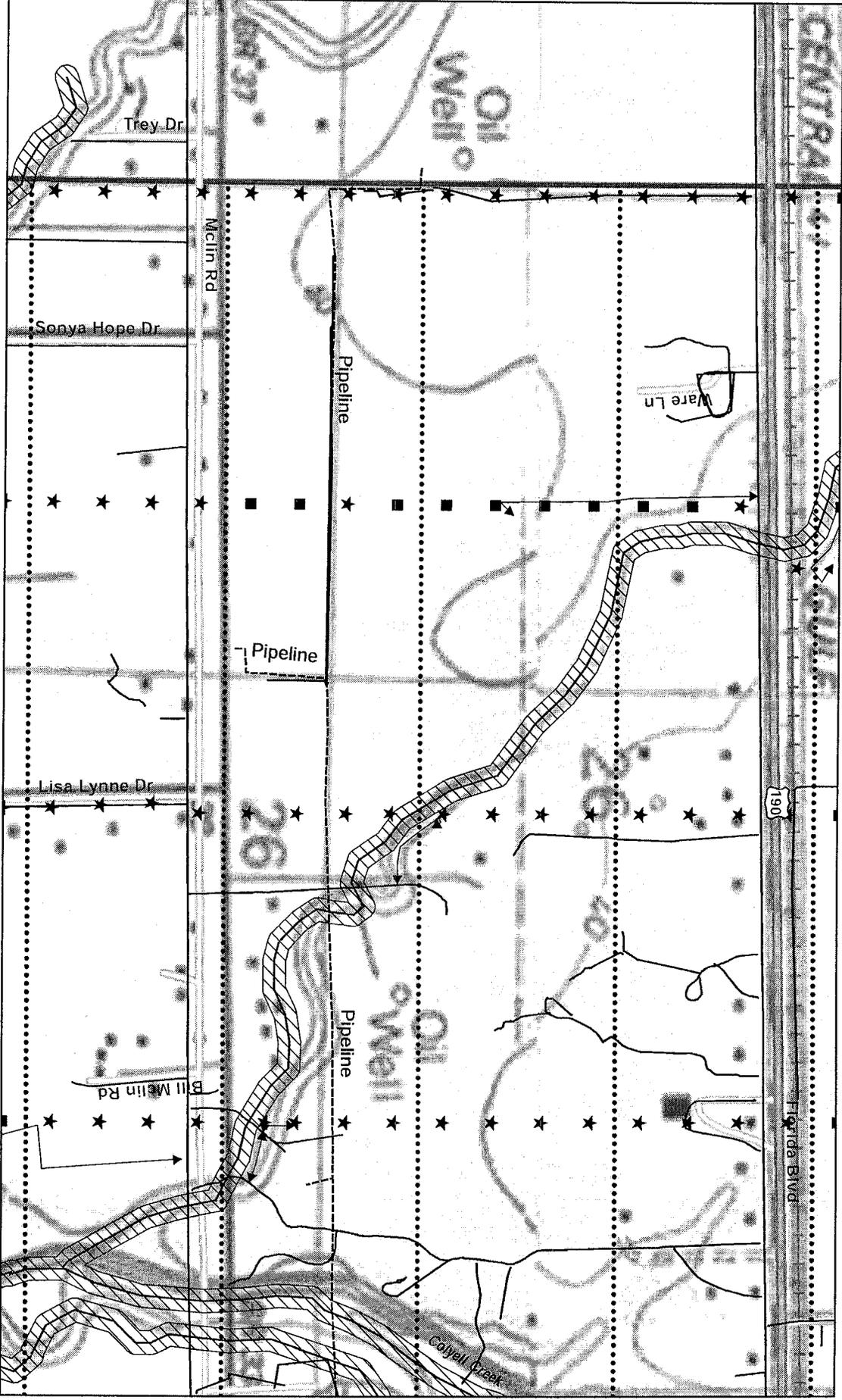
- ⬇ Staging Area - No Excavation or Fill Needed
- ▬ Project Boundary
- ▬ Pipeline
- ▬ Road/Trail
- ↔ Drill Access
- ▬ Creek
- ▬ 50 Feet Creek Buffer



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**LIVINGSTON 3D SEISMIC SURVEY**  
LIVINGSTON, LOUISIANA

PROJECT MAP 2  
FILE: g3blkhrs01g.MXD DATE: 1/15/2014 FIGURE: 2 of 15



- ★ Vibe (Vibration) Location North-South Transect Line (6-ft hand clearing path where necessary)
- Charge Location North-South Transect Line (6-ft hand clearing path where necessary)
- Sensor Receiver East-West Transect Line (3-ft hand clearing path where necessary) (No Excavation or Fill Needed For Access or to Establish Transect Lines)

1	2	3	4	5	6	7	8	9	10	11	12	13
1	2	3	4	5	6	7	8	9	10	11	12	13

- Staging Area - No Excavation or Fill Needed
- Project Boundary
- Pipeline
- Road/Trail
- Drill Access
- Creek
- 50 Feet Creek Buffer



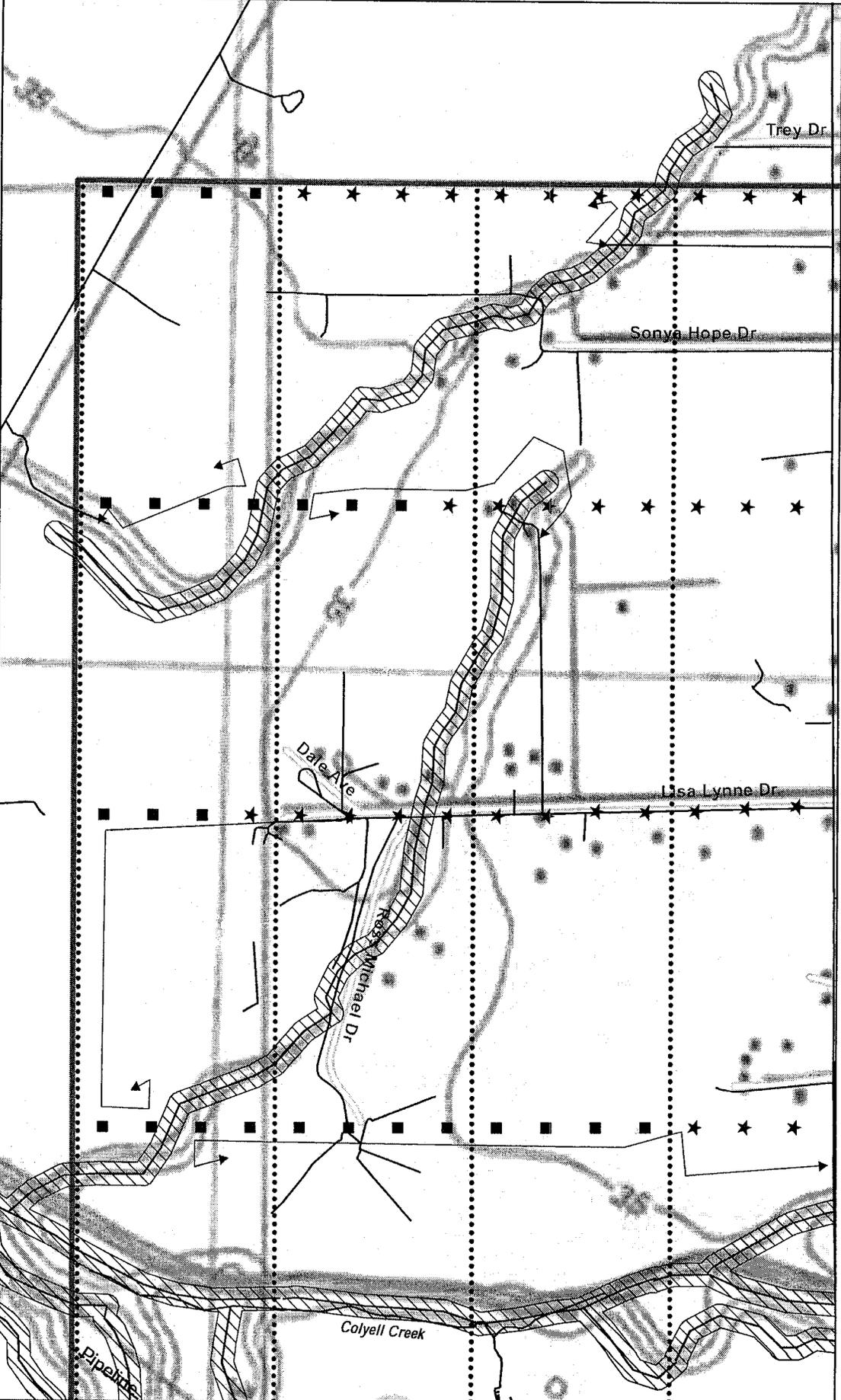
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### LIVINGSTON 3D SEISMIC SURVEY

LIVINGSTON, LOUISIANA

PROJECT MAP 3

FILE: g3blkhrs01g.MXD DATE: 1/15/2014 FIGURE: 3 of 15



- ★ Vibe (Vibration) Location North-South Transect Line (6-ft hand clearing path where necessary)
- Sensor Receiver East-West Transect Line (3-ft hand clearing path where necessary)
- Change Location North-South Transect Line (6-ft hand clearing path where necessary)
- (No Excavation or Fill Needed For Access or to Establish Transect Lines)

1	2	3	4	5	6	7	8	9	10	11	12	13
1	2	3	4	5	6	7	8	9	10	11	12	13

Staging Area - No Excavation or Fill Needed  
 Project Boundary  
 Pipeline  
 Road/Trail  
 Drill Access  
 Creek  
 50 Feet Creek Buffer

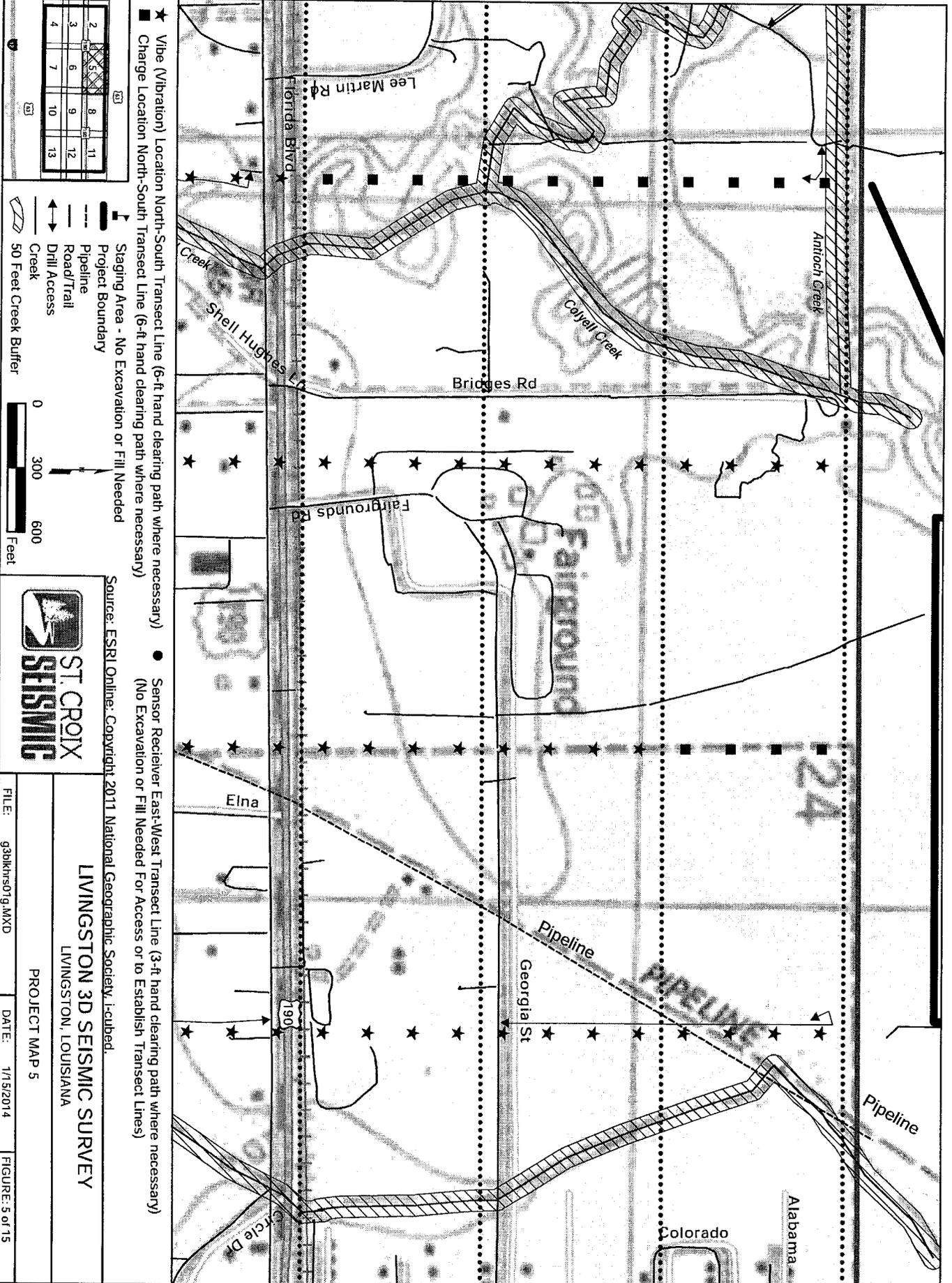


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### LIVINGSTON 3D SEISMIC SURVEY

LIVINGSTON, LOUISIANA

PROJECT MAP 4



- ★ Vibe (Vibration) Location North-South Transect Line (6-ft hand clearing path where necessary)
- Change Location North-South Transect Line (6-ft hand clearing path where necessary)
- Sensor Receiver East-West Transect Line (3-ft hand clearing path where necessary) (No Excavation or Fill Needed For Access or to Establish Transect Lines)

2	5	8	11
3	6	9	12
4	7	10	13

- ▬ Staging Area - No Excavation or Fill Needed
- ▬ Project Boundary
- ▬ Pipeline
- ▬ Road/Trail
- ▬ Drill Access
- ▬ Creek
- ▬ 50 Feet Creek Buffer



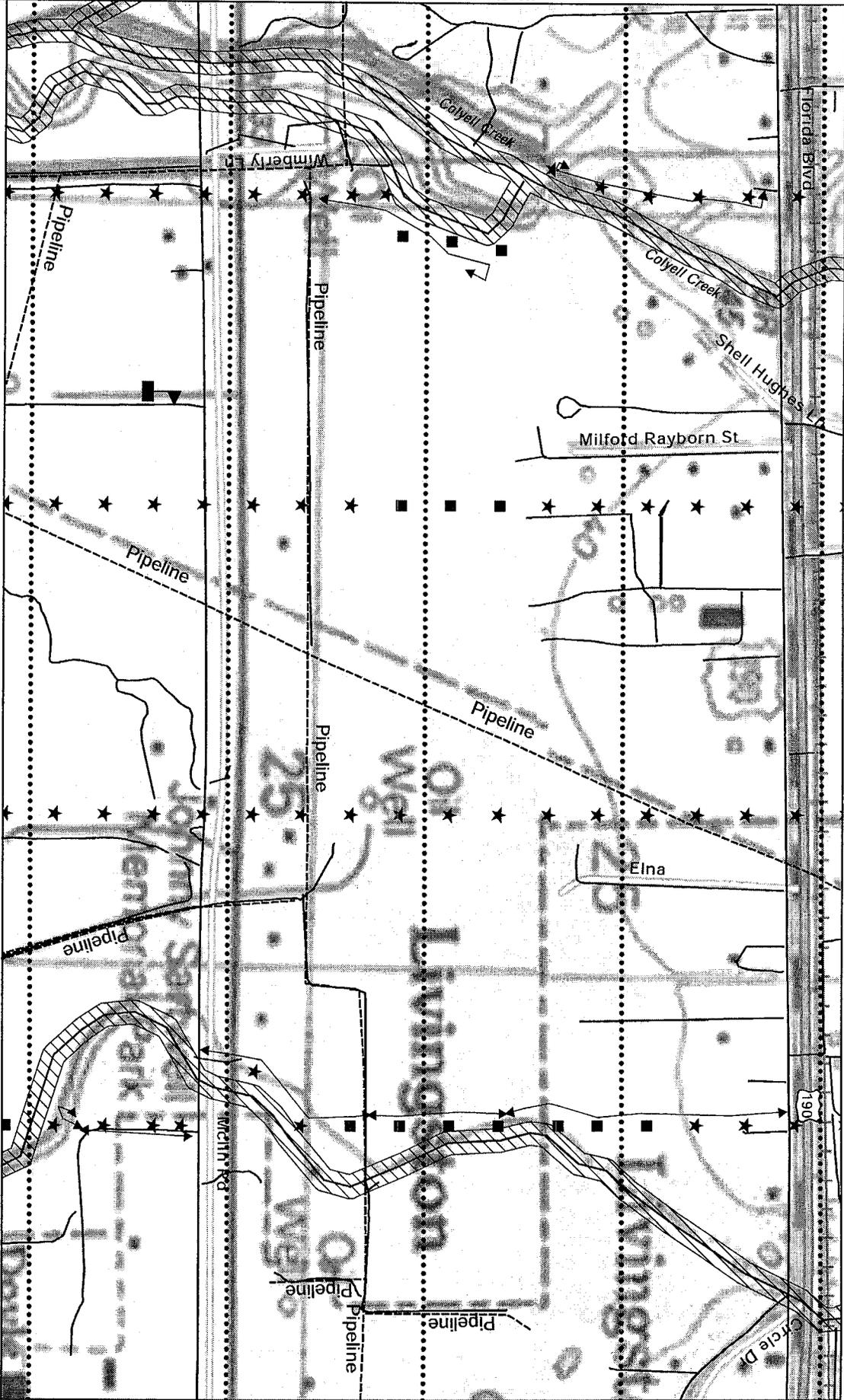
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**LIVINGSTON 3D SEISMIC SURVEY**

LIVINGSTON, LOUISIANA

PROJECT MAP 5

FILE: g3bikhrs01g.mxd DATE: 1/15/2014 FIGURE: 5 of 15



★ Vibe (Vibration) Location North-South Transect Line (6-ft hand clearing path where necessary)  
 ■ Charge Location North-South Transect Line (6-ft hand clearing path where necessary)

● Sensor Receiver East-West Transect Line (3-ft hand clearing path where necessary)  
 (No Excavation or Fill Needed For Access or to Establish Transect Lines)

2	5	8	11
3	6	9	12
4	7	10	13

- Project Boundary
- Pipeline
- Road/Trail
- Drill Access
- Creek
- 50 Feet Creek Buffer



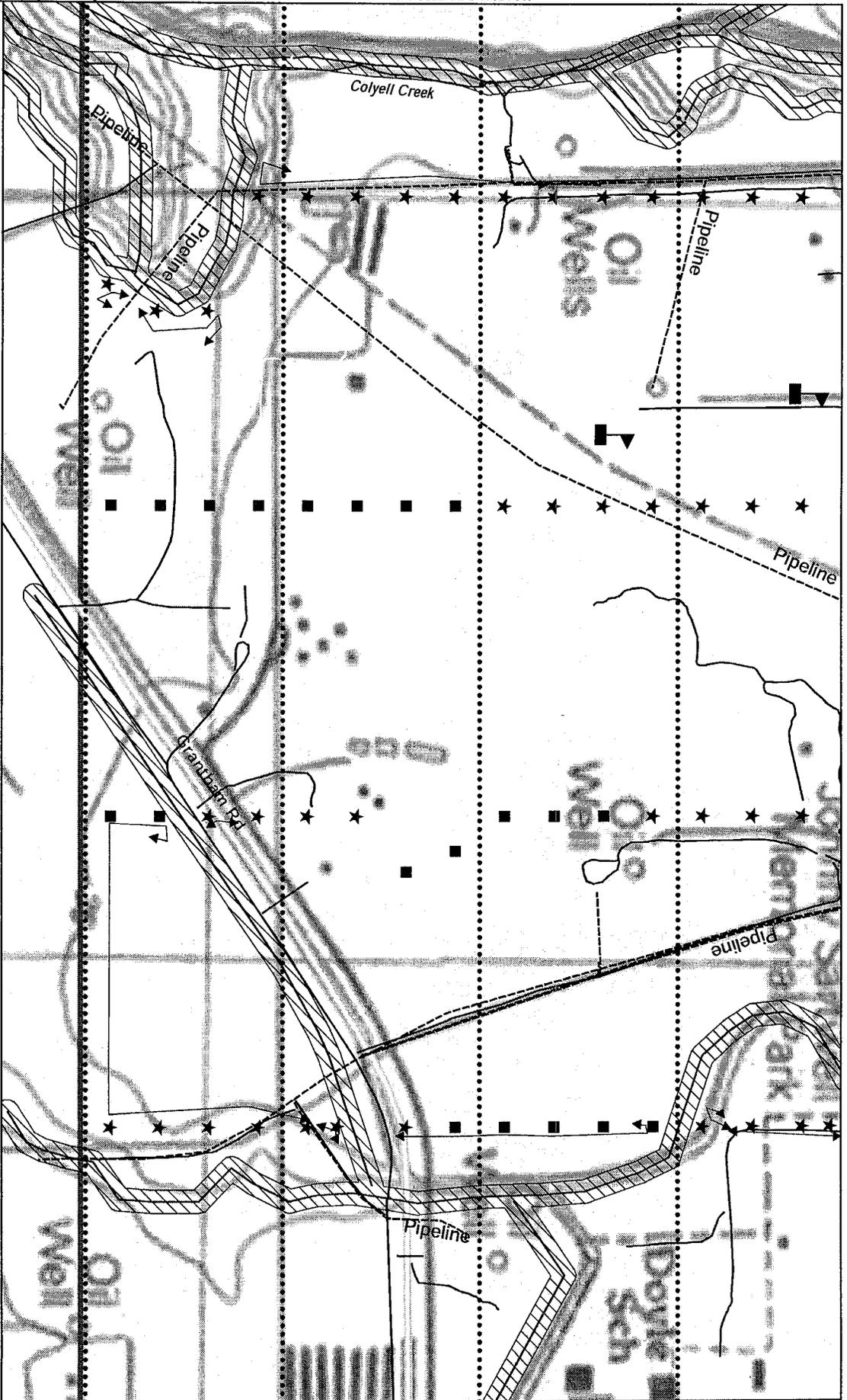
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**LIVINGSTON 3D SEISMIC SURVEY**

LIVINGSTON, LOUISIANA

PROJECT MAP 6

FILE: g3bkhrs01g.mxd DATE: 1/15/2014 FIGURE: 6 of 15



- ★ Vibe (Vibration) Location North-South Transect Line (6-ft hand clearing path where necessary)
- Sensor Receiver East-West Transect Line (3-ft hand clearing path where necessary)
- Change Location North-South Transect Line (6-ft hand clearing path where necessary)
- (No Excavation or Fill Needed For Access or to Establish Transect Lines)

2	5	8	11
3	6	9	12
4	7	10	13

Staging Area - No Excavation or Fill Needed

- Project Boundary
- Pipeline
- Road/Trail
- Drill Access
- Creek
- 50 Feet Creek Buffer

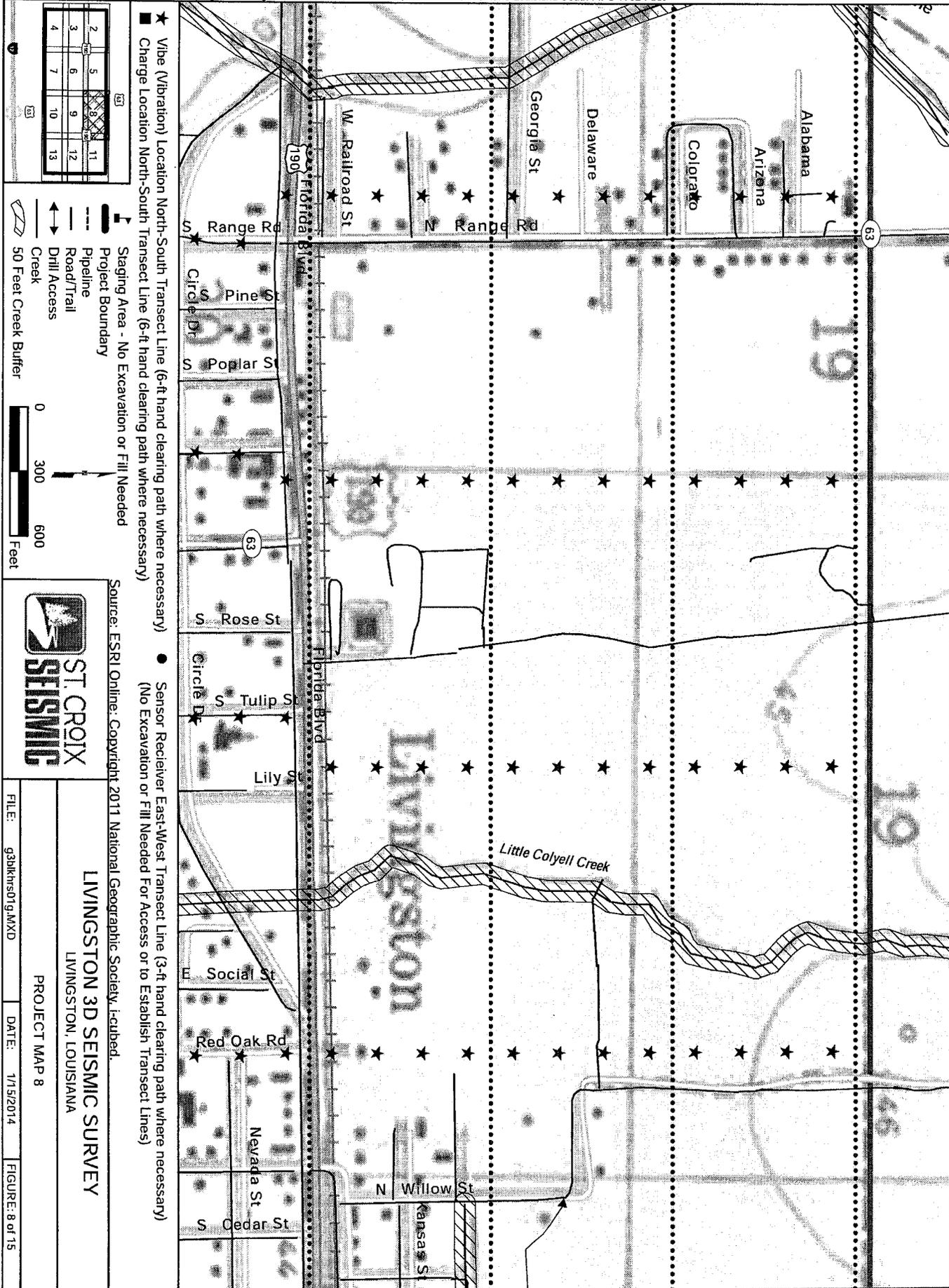
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**LIVINGSTON 3D SEISMIC SURVEY**  
LIVINGSTON, LOUISIANA

PROJECT MAP 7

FILE: g3blkhrs01g.MXD      DATE: 1/15/2014      FIGURE: 7 of 15



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### LIVINGSTON 3D SEISMIC SURVEY

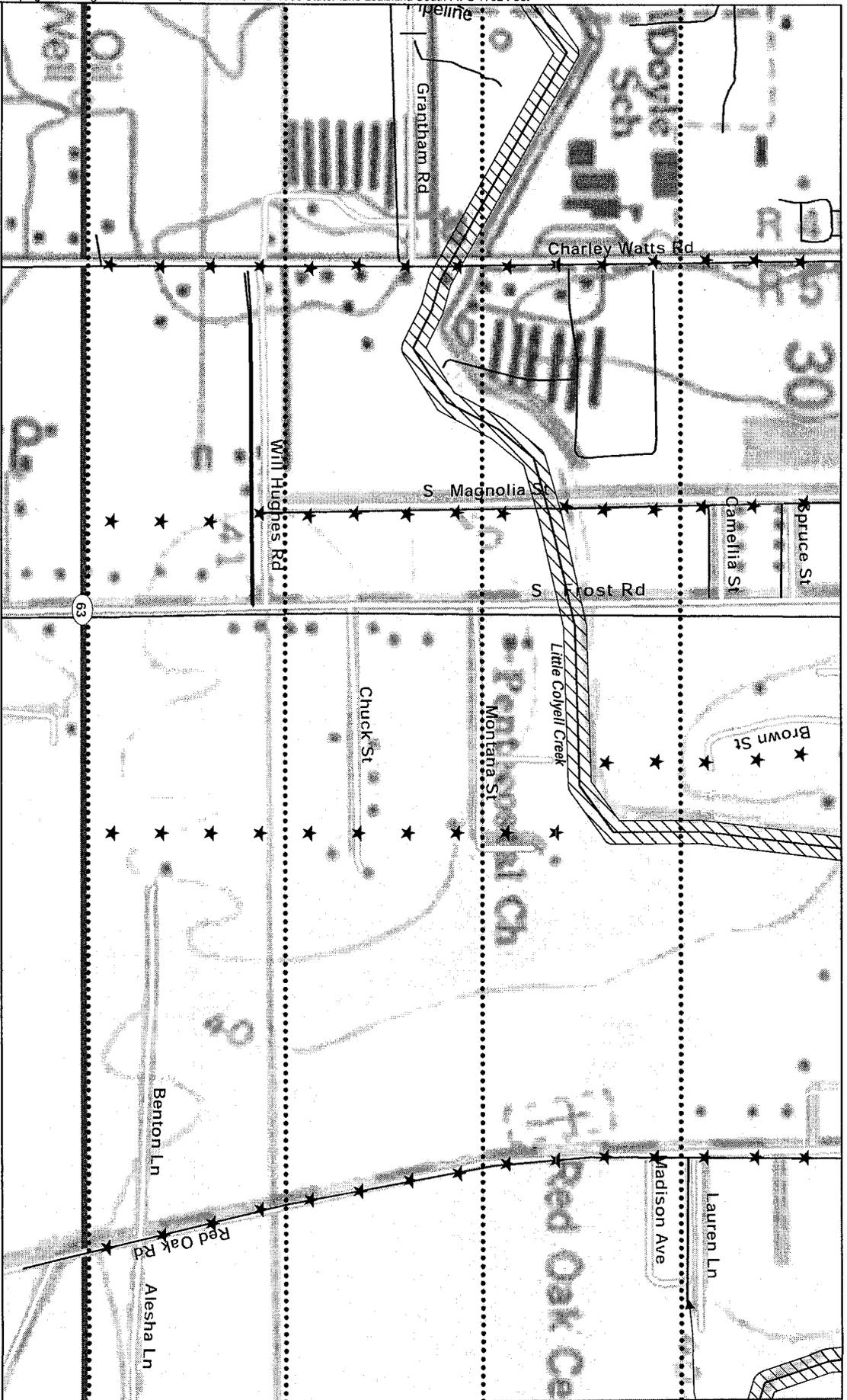
LIVINGSTON, LOUISIANA

PROJECT MAP 8



FILE: g3blkhrs01g.mxd DATE: 1/15/2014 FIGURE: 8 of 15





- ★ Vibe (Vibration) Location North-South Transect Line (6-ft hand clearing path where necessary)
- Sensor Receiver East-West Transect Line (3-ft hand clearing path where necessary)
- Charge Location North-South Transect Line (6-ft hand clearing path where necessary)
- (No Excavation or Fill Needed For Access or to Establish Transect Lines)

2	5	8	11
3	6	9	12
4	7	10	13

- Staging Area - No Excavation or Fill Needed
- Project Boundary
- Pipeline
- Road/Trail
- ↔ Drill Access
- Creek
- 50 Feet Creek Buffer

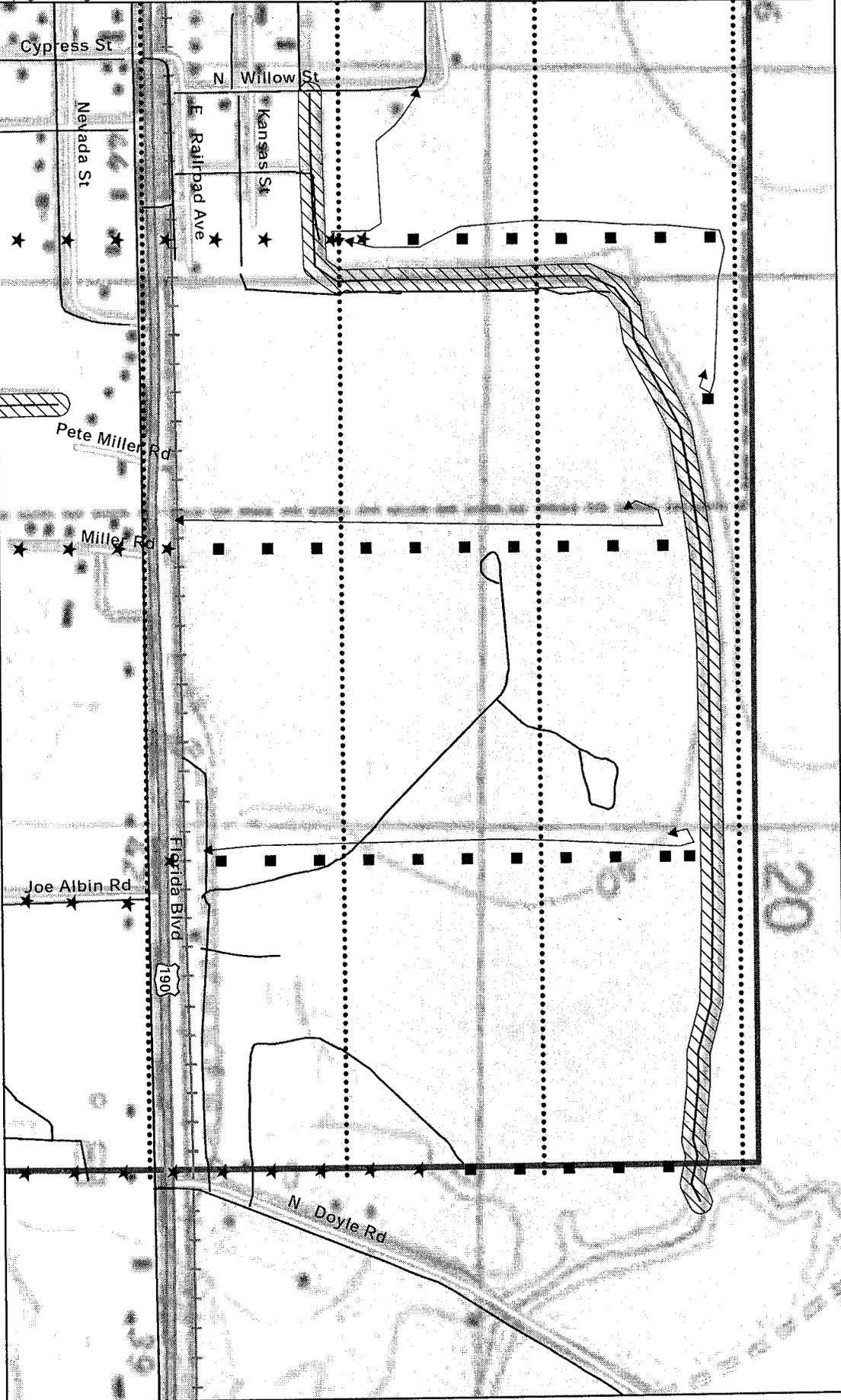
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**LIVINGSTON 3D SEISMIC SURVEY**

LIVINGSTON, LOUISIANA

PROJECT MAP 10

FILE: g3blkhrs01g.mxd      DATE: 1/15/2014      FIGURE: 10 of 15



- ★ Vibe (Vibration) Location North-South Transect Line (6-ft hand clearing path where necessary)
- Sensor Receiver East-West Transect Line (3-ft hand clearing path where necessary)
- Charge Location North-South Transect Line (6-ft hand clearing path where necessary)
- (No Excavation or Fill Needed For Access or to Establish Transect Lines)

2	5	8
3	6	9
4	7	10
		13

- Project Boundary
- Pipeline
- Road/Trail
- Drill Access
- Creek
- 50 Feet Creek Buffer

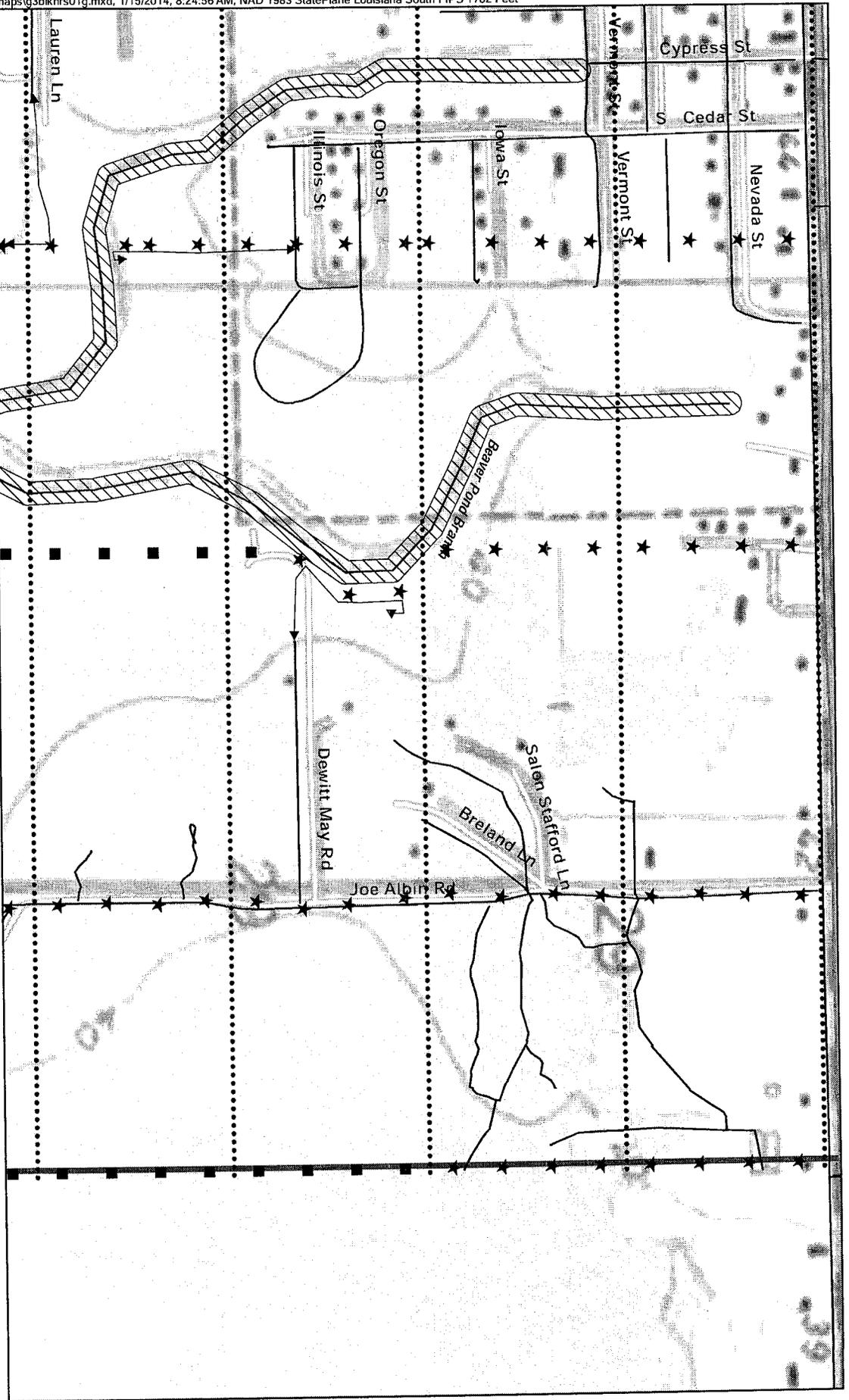


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**LIVINGSTON 3D SEISMIC SURVEY**  
LIVINGSTON, LOUISIANA

PROJECT MAP 11

FILE: g3bhkhrs01g.MXD      DATE: 1/15/2014      FIGURE: 11 of 15



- ★ Vibe (Vibration) Location North-South Transect Line (6-ft hand clearing path where necessary)
- Sensor Receiver East-West Transect Line (3-ft hand clearing path where necessary)
- Charge Location North-South Transect Line (6-ft hand clearing path where necessary)
- (No Excavation or Fill Needed For Access or to Establish Transect Lines)

2	5	8
3	6	9
4	7	10
		13

Staging Area - No Excavation or Fill Needed

- Project Boundary
- Pipeline
- Road/Trail
- Drill Access
- Creek
- 50 Feet Creek Buffer

0 300 600 Feet



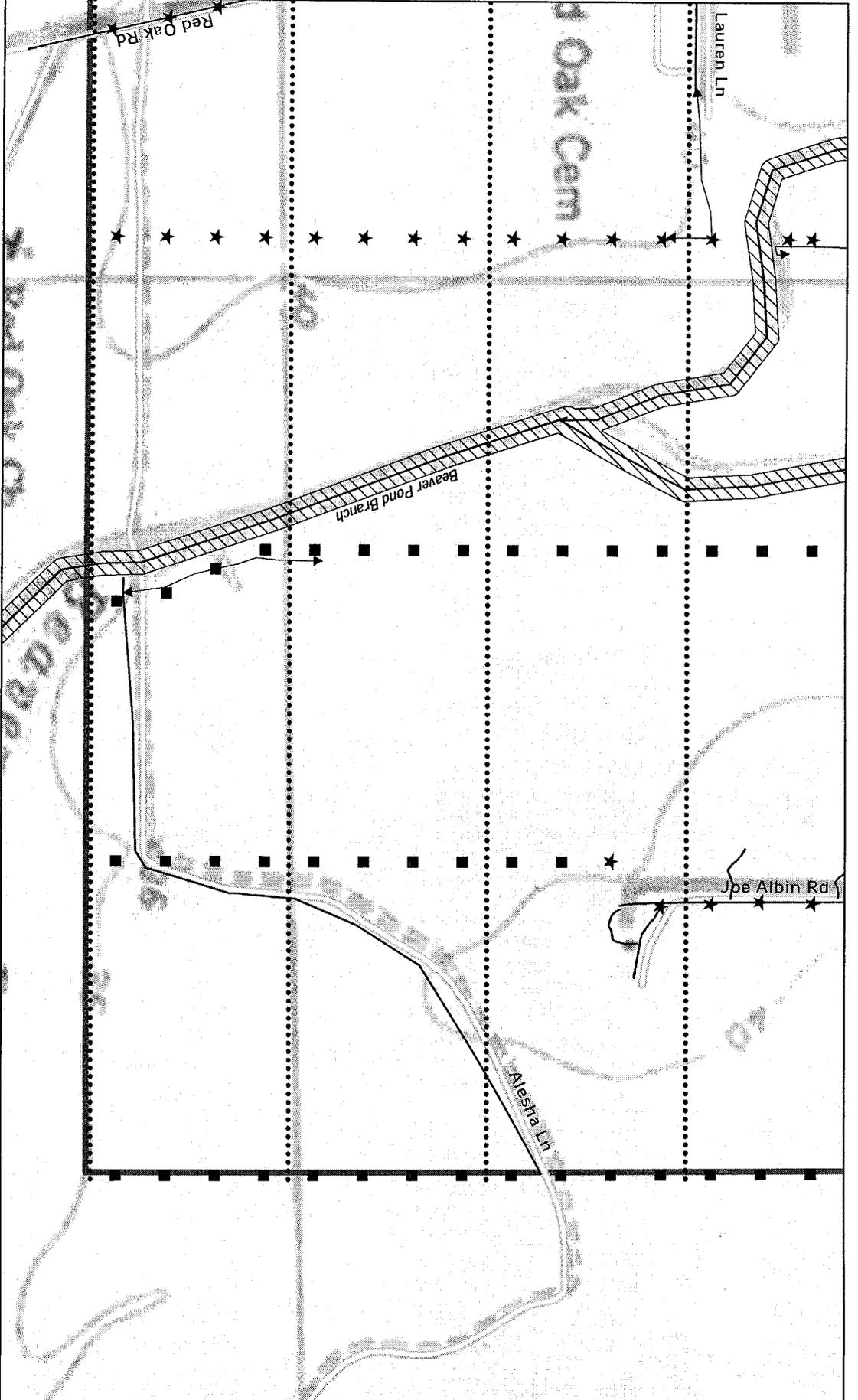
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### LIVINGSTON 3D SEISMIC SURVEY

LIVINGSTON, LOUISIANA

PROJECT MAP 12

FILE: g3bhkhrs01g.mxd DATE: 1/15/2014 FIGURE: 12 of 15



- ★ Vibe (Vibration) Location North-South Transect Line (6-ft hand clearing path where necessary)
- Charge Location North-South Transect Line (6-ft hand clearing path where necessary)

- Sensor Receiver East-West Transect Line (3-ft hand clearing path where necessary) (No Excavation or Fill Needed For Access or to Establish Transect Lines)

2	5	8	11
3	6	9	12
4	7	10	13

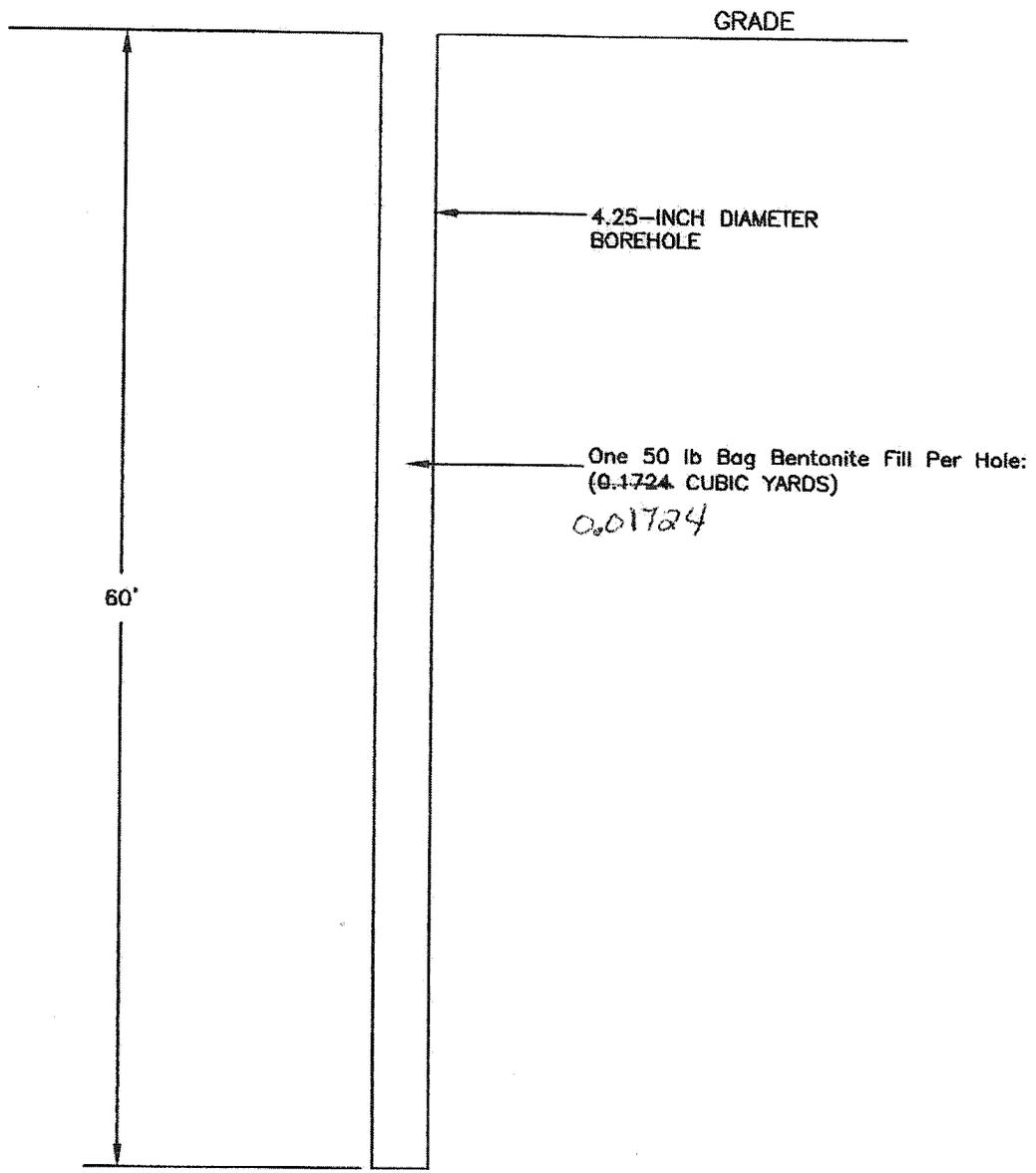
- ⬇ Staging Area - No Excavation or Fill Needed
- Project Boundary
- Pipeline
- Road/Trail
- ↔ Drill Access
- Creek
- 50 Feet Creek Buffer



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**LIVINGSTON 3D SEISMIC SURVEY**  
LIVINGSTON, LOUISIANA

PROJECT MAP 13



NOT TO SCALE



ST. CROIX  
SEISMIC

LIVINGSTON 3D SEISMIC SURVEY  
LIVINGSTON, LOUISIANA

CHARGE BOREHOLE CONSTRUCTION

FILE: Shot Borehole Construction.dwg | DATE: NOVEMBER 2013 | FIGURE: 14