



**US Army Corps
of Engineers**

Vicksburg District
4155 Clay Street
Vicksburg, MS 39183-3435
www.mvk.usace.army.mil



Public Notice

APPLICATION NO.:	KWH-MVK-2015-174
EVALUATOR:	Mr. Kristi Hall
PHONE NO.:	(601) 631-7528
FAX NO.:	(601) 631-5459
E-MAIL:	Kristi.W.Hall@usace.army.mil
DATE:	June 19, 2015
EXPIRATION DATE:	July 9, 2015

Interested parties are hereby notified that the U.S. Army Corps of Engineers, Vicksburg District is considering an application for a Department of the Army permit for the work described herein. Comments should be forwarded to the Vicksburg District, Attention: CEMVK-OD-F, 4155 Clay Street, Vicksburg, MS 39183-3435.

Application also has been made to the Louisiana Department of Environmental Quality, Office of Environmental Services for a Water Quality Certification in accordance with La. R.S. 30.2074(A)(93), and Section 401 of the Clean Water Act (P.L. 95-217). Additional information is on file with the above office, and may be inspected at any time between 8:00 a.m. and 4:30 p.m. weekdays. Copies may be obtained upon payment of cost of copying. Comments concerning the application can be filed with the Office of Environmental Services within 20 days of this notice to the following address: Office of Environmental Services, P. O. Box 4313, Baton Rouge, LA 70821-4313.

Law Requiring a Permit: Section 404 of the Clean Water Act (33 U.S.C. 1344), which applies to discharges of dredged or fill material into waters of the United States.

Name of Applicant:

Mr. Gary Waldrop
Santo Petroleum
1200 Smith Street, Suite 690
Houston, Texas 77002

Name of Agent:

Mr. P. Matthew Conn
SEG Environmental, LLC
224 Rue De Jean
Lafayette, Louisiana 70508

Location of Work: Section 7, T2N-R7E and Sections 12 and 13-T2N-R6E within the Bayou Natchitoches Watershed in the Ouachita River drainage basin (USGS HUC 08040301), Avoyelles Parish, Louisiana.

Description of Work: (See enclosed map and drawings.)

The following description of the proposed project and associated impacts are based upon information provided by the applicant.

The applicant is applying for a Department of the Army permit for the discharge of dredged and/or fill material associated with the exploration and production of oil and natural gas.

Santo Petroleum proposes to construct a well pad for the purpose of oil exploration, production and storage. The total project area, including access roads, covers approximately 6.0 acres. Approximately 5.15 acres of the project area includes an existing, upland access road (2.8 miles). The well pad would be located on the edge of a large block of wetlands and would be directionally drilled to a depth of 8,000 feet. A closed loop system will be utilized. The proposed well pad and majority of the access road is in an area currently enrolled in the Natural Resource Conservation Service's Wetland Reserve Program.

Approximately 568 cubic yards of earthen fill would be used as a fill material for the pad and 417 cubic yards of material would be excavated to construct a ring levee. Approximately 0.45 acre of forested wetlands and 0.40 acre of emergent wetlands would be permanently filled. The applicant proposes to mitigate for all jurisdictional impacts by purchasing credits from an approved mitigation bank.

The vegetative communities within the project area are dominated by green ash (*Fraxinus pennsylvanica*), Frank's sedge (*Carex frankii*), broad-wing sedge (*Carex alata*), trumpet creeper (*Campsis radicans*) and American buckwheatvine (*Brunnichia ovate*) in the forested wetland areas. Emergent wetlands within the proposed well pad are currently being used as a food plot, vegetation in these areas are dominated by Jungle-rice (*Echinochloa colona*), white clover (*Trifolium repens*), and perennial rye grass (*Lolium perenne*). Along the upland access road bermuda grass (*Cynodon dactylon*), perennial rye grass (*Lolium perenne*), and white clover (*Trifolium repens*) are the dominant cover types. Sharkey clay is the dominant soil type within the proposed well pad, with Tensas clay underlying portions of the access road and Sharkey clay in the remainder. Hydrology indicators within the proposed well pad included, surface water, saturation and water stained leaves.

The placement of dredged and/or fill material in waters of the United States requires a Department of the Army Permit.

Upon reviewing this notice, you should write to this office to provide your opinion

of the impacts this work will have on the natural and human environment, and address any mitigation you believe is necessary to offset these impacts. Other comments are welcome, but the above information will further our review of the applicant's plan, as proposed. Comments of a general nature are not as helpful as those specific to the impacts of the subject project.

State Water Quality Permit: The State Pollution Control Agency must certify that the described work will comply with the State's water quality standards and effluent limitations before a Corps permit is issued.

Cultural Resources: The Regulatory Archaeologist has reviewed the latest published version of the National Register of Historic Places, lists of properties determined eligible, and other sources of information. The following is current knowledge of the presence or absence of historic properties and the effects of the proposed undertaking upon these properties: The permit area is composed (entirely) of low-lying wetlands with no existing or subsided natural levee landforms; and therefore, has a very low potential for yielding unidentified cultural deposits that may be eligible for National Register of Historic Places.

Endangered Species: The following threatened or endangered species are known to reside in Ouachita Parish: Northern Long-eared Bat (T), Louisiana Black Bear (T), Sprague's Pipit (C) and Pallid Sturgeon (E). This proposal is being coordinated with the U.S. Fish and Wildlife Service, and any comments regarding endangered species or their critical habitat will be addressed in our evaluation of the described work.

Flood Plain: In accordance with 44 CFR Part 60 (Flood Plain Management and Use), participating communities are required to review all proposed development to determine if a flood plain development permit is required. Flood plain administrators should review the proposed development described in this public notice and apprise this office of any flood plain development permit requirements.

Evaluation Factors: The decision whether or not to issue a permit will be based upon an evaluation of the probable impact of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits which may be expected to accrue from the proposal must be balanced against its expected adverse effects. All factors which may be relevant to the proposal will be considered; among these are conservation, economics, aesthetics, general environmental concerns, historic values, fish and wildlife values, flood damage prevention, land use classification, navigation, recreation, water supply, water quality, energy needs, safety, food requirements and, in general, the needs and welfare of the people. Evaluation of the proposed activity will include application of the guidelines published by the Environmental Protection Agency under authority of Section 404(b) of the Clean Water Act.

Public Involvement: The purpose of this notice is to solicit comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other interested parties. These comments will be used to evaluate the impacts of this project. All comments will be considered and used to help determine whether to issue the permit, deny the permit, or issue the permit with conditions, and to help us determine the amount and type of mitigation necessary. This information will be used in our Environmental Assessment or Impact Statement. Comments are also used to determine the need for a public hearing.

Opportunity for a Public Hearing: Any person may make a written request for a public hearing to consider this permit application. This request must be submitted by the public notice expiration date and must clearly state why a hearing is necessary. Failure of any agency or individual to comment on this notice will be interpreted to mean that there is no objection to the proposed work. Please bring this announcement to the attention of anyone you know who might be interested in this matter.

Notification of Final Permit Actions: Each month, the final permit actions from the preceding month are published on the Vicksburg District Regulatory web page. To access this information, you may follow the link from the Regulatory web page, <http://www.mvk.usace.army.mil/Missions/Regulatory.aspx>, and click on ORM Permit Decisions under Program Links.



Randel V. Holder
Chief, Evaluation Section
Regulatory Branch



MVK-2015-174

Santo Petroleum
 Bayou Natchitoches Prospect
 Brian Caubarreaux Well #1
 Project Location:
 N 31.1659°, W -91.8052°

**Preliminary
 Jurisdictional Determination**
 Prepared by: Kristi Hall
 18 June 2015

Vicksburg District



Avoyelles Parish, LA



**US Army Corps
 of Engineers**



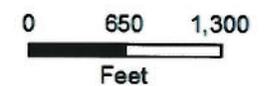
Legend

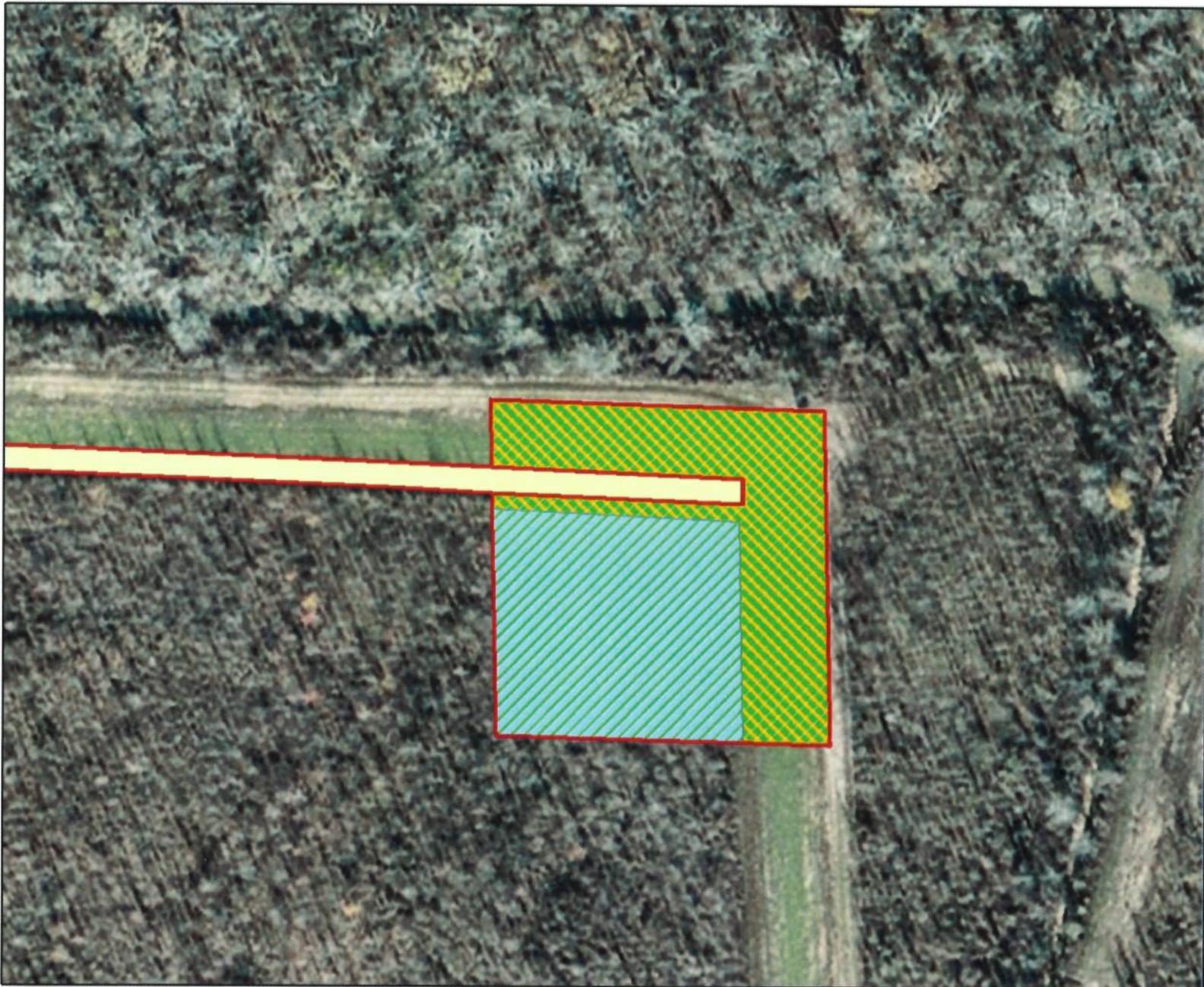
-  Project area
-  Total Wetland - 0.85 ac.

1:15,000

Regulatory Branch

Enforcement Section





MVK-2015-174

Santo Petroleum
 Bayou Natchitoches Prospect
 Brian Caubarreaux Well #1
 Project Location:
 N 31.1659°, W -91.8052°

**Preliminary
 Jurisdictional Determination**

Prepared by: Kristi Hall
 18 June 2015

Vicksburg District



Avoyelles Parish, LA

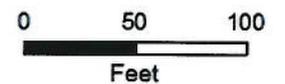


**US Army Corps
 of Engineers**



Regulatory Branch

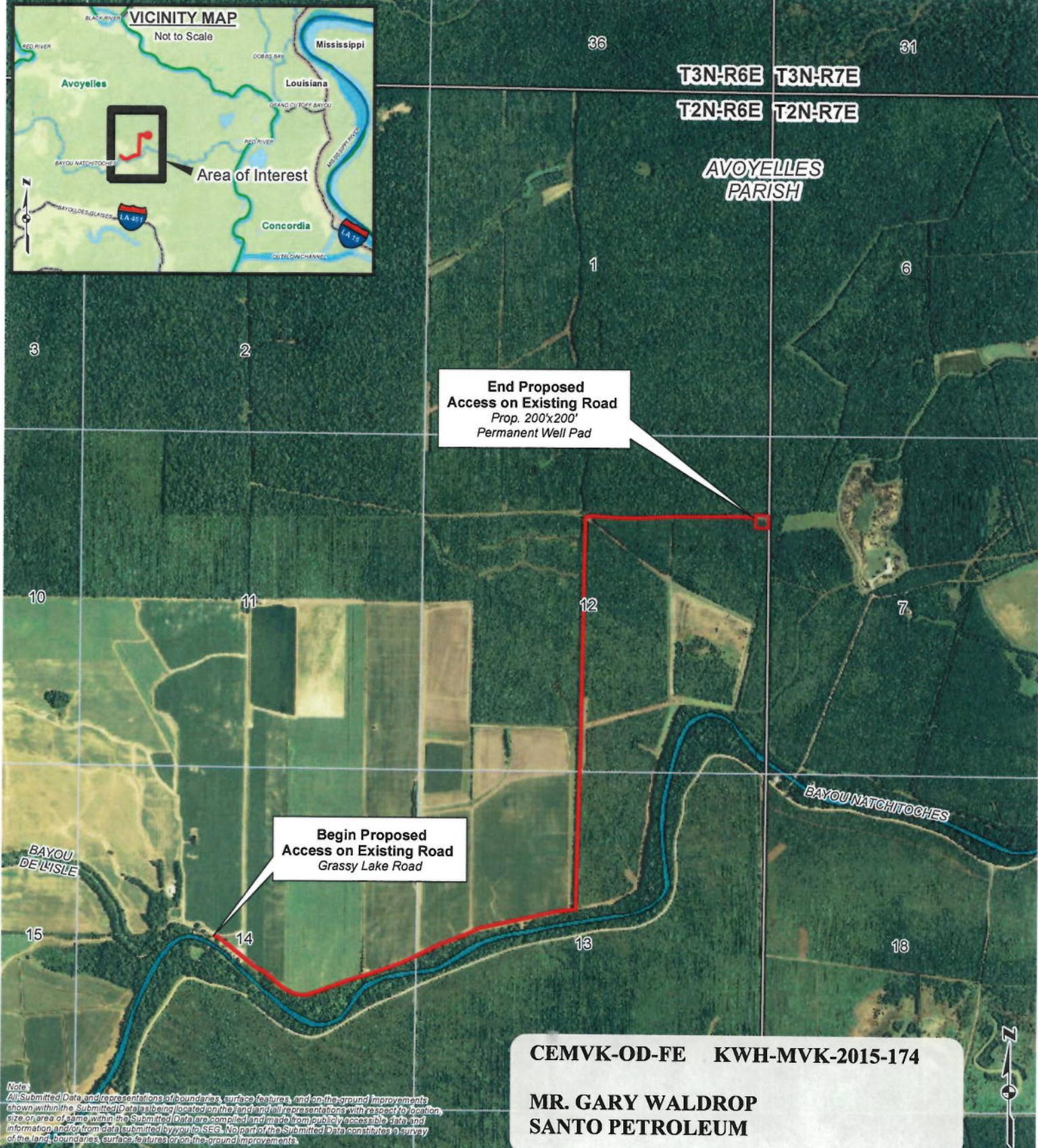
Enforcement Section



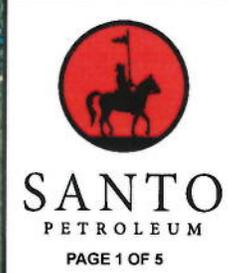
Legend

-  Project area
-  Forested Wetland- 0.45 acres
-  Upland Access Road
-  Emergent Wetland- 0.40 acres

1:1,000



Note: All Submitted Data and representations of boundaries, surface features, and on-the-ground improvements shown within the Submitted Data are being located on the land and all representations with respect to location, size or area of same within the Submitted Data are compiled and made from publicly accessible data and information and/or from data submitted by you to SEG. No part of the Submitted Data constitutes a survey of the land, boundaries, surface features or on-the-ground improvements.



Proposed Well Site

Brian Caubarreaux No. 1
 Bayou Natchitoches Prospect
 T02N-R07E
 Avoyelles Parish, Louisiana
 June 15, 2015



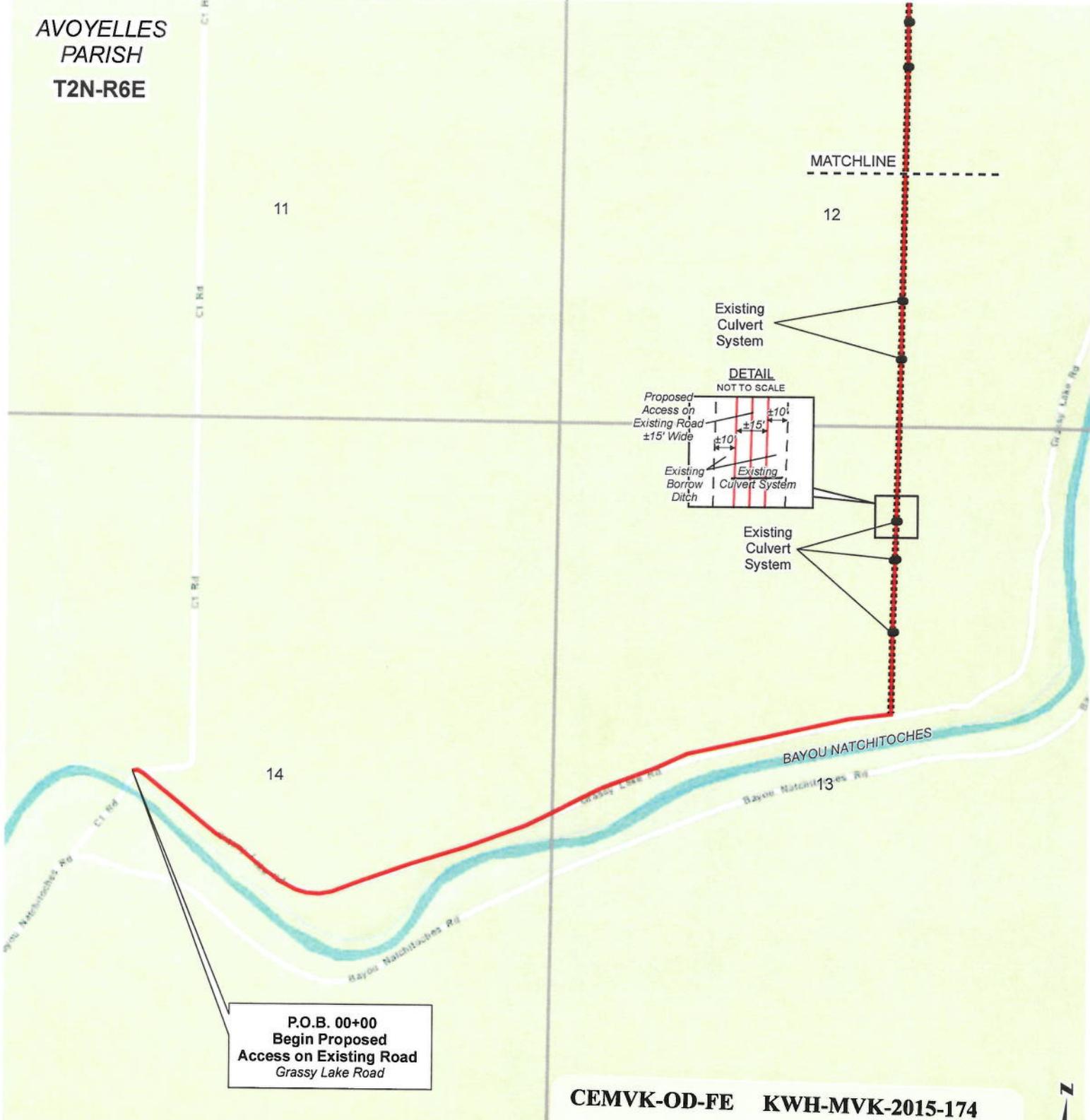
Geodetic Datum: NAD83 - Projection: Louisiana North - Grid Units: US Survey Feet

Prepared By:



Louisiana Office
 224 Rue De Jean
 Lafayette, LA 70508
 337-232-1122
 337-232-1372 fax

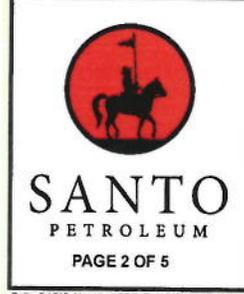
Texas Office
 7155 Old Katy Rd. Suite 225
 Houston, TX 77024
 281-822-2120
 281-822-2121 fax



CEMVK-OD-FE KWH-MVK-2015-174

MR. GARY WALDROP
SANTO PETROLEUM

Note:
All Submitted Data and representations of boundaries, surface features, and on-the-ground improvements shown within the Submitted Data as being located on the land and all representations with respect to location, size or area of same within the Submitted Data are compiled and made from publicly accessible data and information and/or from data submitted by you to SEG. No part of the Submitted Data constitutes a survey of the land, boundaries, surface features or on-the-ground improvements.



Proposed Well Site

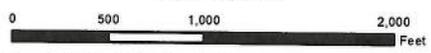
Brian Caubarreaux No. 1
Bayou Natchitoches Prospect
T02N-R07E
Avoyelles Parish, Louisiana
June 15, 2015

Prepared By:



Louisiana Office
224 Rue De Jean
Lafayette, LA 70508
337-232-1122
337-232-1372 fax

Texas Office
7155 Old Katy Rd, Suite 225
Houston, TX 77024
281-822-2120
281-822-2121 fax



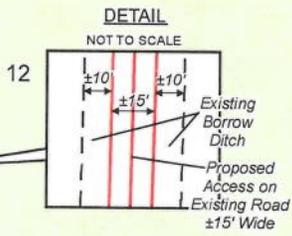
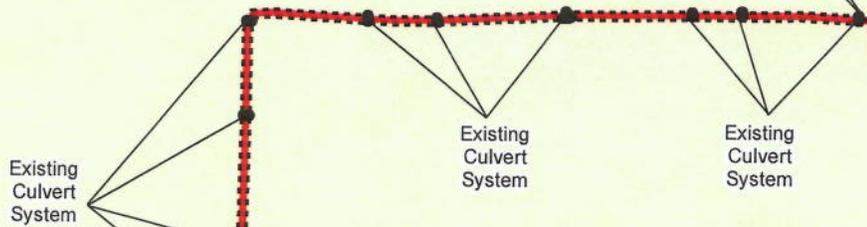
Geodetic Datum: NAD83 • Projection: Louisiana North • Grid Units: US Survey Feet

1

6

**P.O.B. 148+11
End Proposed
Access on Existing Road
200' x 200' Well Pad**

**Proposed
200' x 200' Well Pad
for the
Brian Caubarreaux No. 1**



MATCHLINE

CEMVK-OD-FE KWH-MVK-2015-174

**MR. GARY WALDROP
SANTO PETROLEUM**

Note:
All Submitted Data and representations of boundaries, surface features, and on-the-ground improvements shown within the Submitted Data as being located on the land and all representations with respect to location, size or area of same within the Submitted Data are compiled and made from publicly accessible data and information and/or from data submitted by you to SEG. No part of the Submitted Data constitutes a survey of the land, boundaries, surface features or on-the-ground improvements.

Proposed Well Site

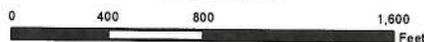
*Brian Caubarreaux No. 1
Bayou Natchitoches Prospect
T02N-R07E
Avoyelles Parish, Louisiana
June 15, 2015*

Prepared By:



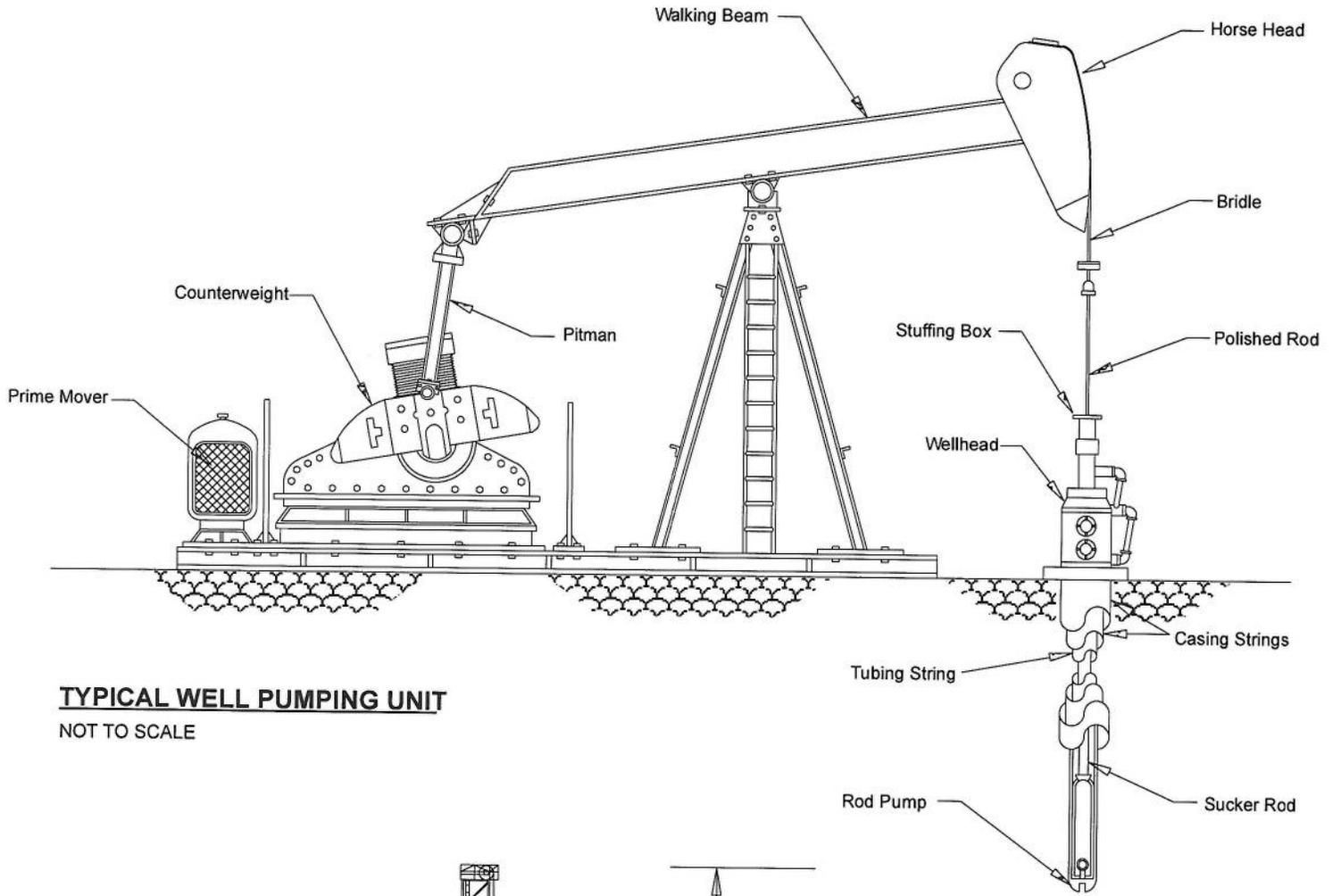
Louisiana Office
224 Rue De Jean
Lafayette, LA 70508
337-232-1122
337-232-1372 fax

Texas Office
7155 Old Katy Rd. Suite 225
Houston, Tx 77024
281-822-2120
281-822-2121 fax



Geodetic Datum: NAD83 • Projection: Louisiana North • Grid Units: US Survey Feet



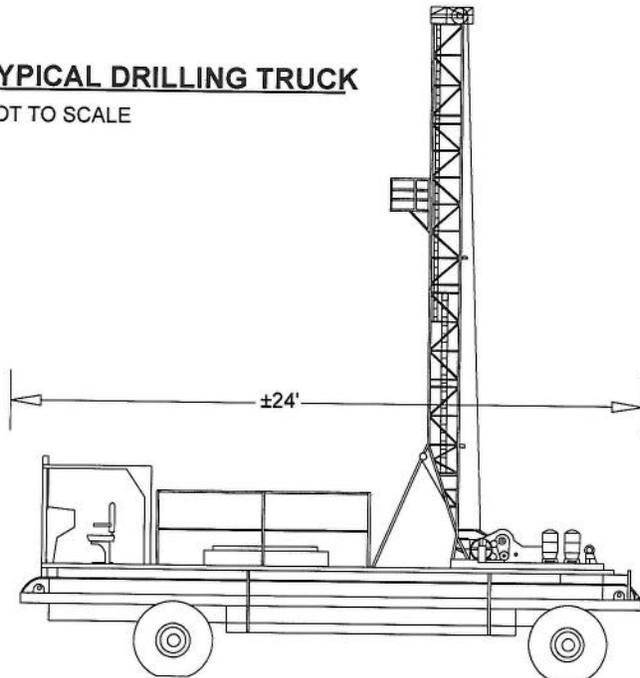


TYPICAL WELL PUMPING UNIT

NOT TO SCALE

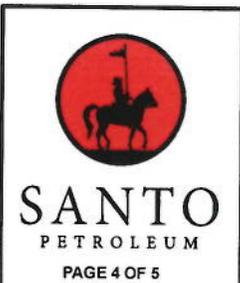
TYPICAL DRILLING TRUCK

NOT TO SCALE



CEMVK-OD-FE KWH-MVK-2015-174

**MR. GARY WALDROP
SANTO PETROLEUM**



Proposed Well Site

Brian Caubarreaux No. 1
Bayou Natchitoches Prospect
T02N-R07E
Avoyelles Parish, Louisiana
June 15, 2015

Prepared By:



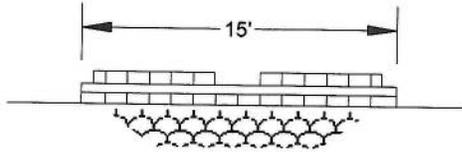
Louisiana Office 224 Rue De Jean Lafayette, LA 70508 337-232-1122 337-232-1372 fax	Texas Office 7155 Old Katy Rd. Suite 225 Houston, Tx 77024 281-822-2120 281-822-2121 fax
--	--

Geodetic Datum: NAD83 • Projection: Louisiana North • Grid Units: US Survey Feet

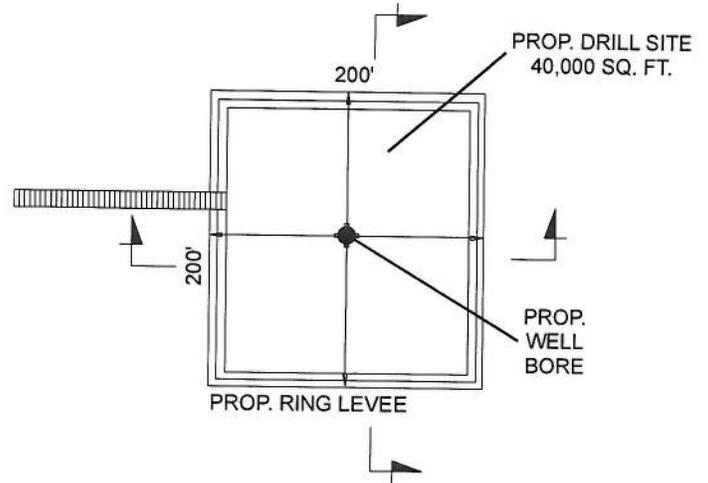
NOTES:
 MAXIMUM OUTSIDE DIMENSIONS OF LEVEES SHALL NOT EXCEED 200' X 200' (40,000 SQ. FT.)

MATERIALS FOR RING LEVEES MUST BE EXCAVATED FROM INSIDE THE LEVEED AREA.

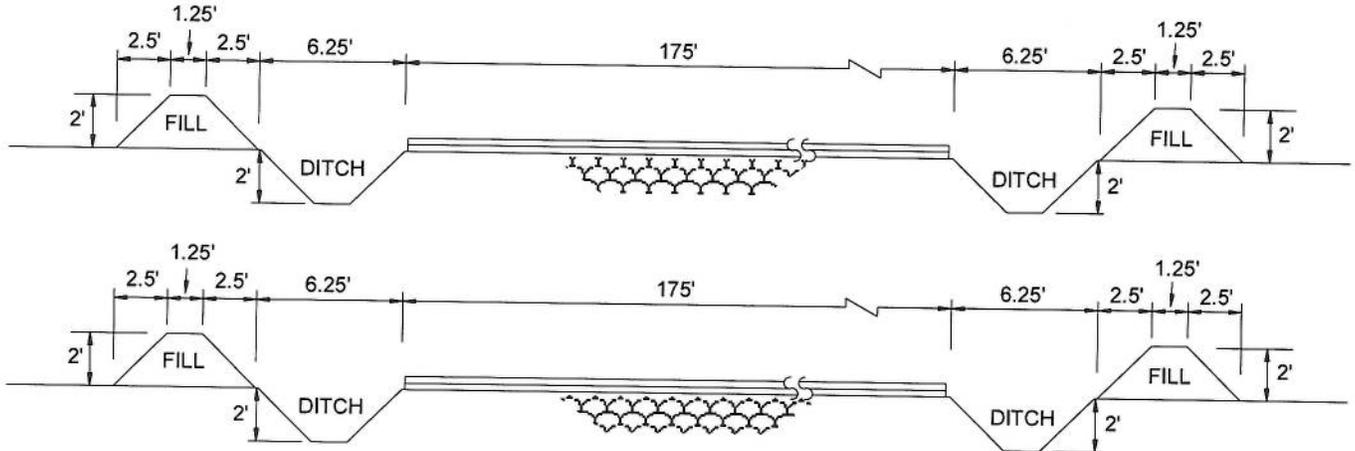
UPON ABANDONMENT OF LOCATION, WETLANDS WILL BE RESTORED AS NEAR TO PRE-PROJECT CONDITIONS AS PRACTICABLE.



TYPICAL BOARD ROAD
 NOT TO SCALE



TYPICAL DRILL SITE PLAN
 NOT TO SCALE



TYPICAL DRILL SITE
 NOT TO SCALE

CEMVK-OD-FE KWH-MVK-2015-174

**MR. GARY WALDROP
 SANTO PETROLEUM**

NOTES:
 APPROX. 222 CU. YARDS (0.15 ACRES) OF EXCAVATION/FILL REQUIRED TO CONSTRUCT RING LEVEE. (ALL WETLAND)

IF WELL IS SUCCESSFUL, THEN 6" OF LIMESTONE WILL BE PLACED ON TOP OF DRILL PAD AREA. APPROX. 568 CU. YARDS (0.70 ACRES) OF MATERIAL WILL BE NEEDED.

Note: Permittee shall contact the Louisiana One Call at 1-800-272-3020 forty-eight hours prior to excavation or demolition.

Proposed Well Site

Brian Caubarreaux No. 1
 Bayou Natchitoches Prospect
 T02N-R07E
 Avoyelles Parish, Louisiana
 June 16, 2015

Prepared By:



Louisiana Office 224 Rue De Jean Lafayette, LA 70508 337-232-1122 337-232-1372 fax	Texas Office 7155 Old Katy Rd. Suite 225 Houston, Tx 77024 281-822-2120 281-822-2121 fax
--	--



Geodetic Datum: NAD83 • Projection: Louisiana North • Grid Units: US Survey Feet