

**BUREAU OF LAND MANAGEMENT
SOUTHEASTERN STATES FIELD OFFICE
411 Briarwood Drive, Suite 404
Jackson, Mississippi 39206**

ENVIRONMENTAL ASSESSMENT (EA) FORM

ES-020-2013-21

PROJECT NAME: EOI #1736, Sabine Parish, Louisiana Lease EA

TECHNICAL REVIEW:

X	Program	Reviewer	Signature	Date
X	Air Quality	Alison McCartney Natural Resource Specialist	<i>Alison McCartney</i>	9/18/13
X	ACEC	Alison McCartney Natural Resource Specialist	ASM	9/18/13
X	Botanical including T&E Spp.	Alison McCartney Natural Resource Specialist	ASM	9/18/13
	Communications (Dispatch)			
X	Cultural/Paleontology	John Sullivan Archeologist		9/20/13
X	Energy Policy	Alison McCartney Natural Resource Specialist	ASM	9/18/13
X	Environmental Justice	Alison McCartney Natural Resource Specialist	ASM	9/18/13
	Farmlands (Prime & Unique)			
	Fire Management			
X	Floodplain	Alison McCartney Natural Resource Specialist	ASM	9/18/13
X	Hazardous Material	Brian Kennedy Physical Scientist	<i>Brian Kennedy</i>	9/20/13
X	Invasive & Non-Native Spp.	Alison McCartney Natural Resource Specialist	ASM	9/18/13
	Lands/Realty			
	Land Law Examiner			
	Law Enforcement			
X	Minerals	Alison McCartney Natural Resource Specialist	ASM	9/18/13
X	Native American Religious Concerns	John Sullivan Archeologist		9/20/13
	Operations			
	Range Management			
X	Recreation	Alison McCartney Natural Resource Specialist	ASM	9/18/13

X	Soils	Alison McCartney Natural Resource Specialist	ASM	9/18/13
	Surface Protection			
	Visual Resources			
	Water Rights			
X	Water Quality (Surface & Ground)	Alison McCartney Natural Resource Specialist	ASM	9/18/13
X	Wetlands/Riparian Zones	Alison McCartney Natural Resource Specialist	ASM	9/18/13
X	Wild & Scenic Rivers	Alison McCartney Natural Resource Specialist	ASM	9/18/13
X	Wilderness	Alison McCartney Natural Resource Specialist	ASM	9/18/13
	Wild Horse & Burro			
X	Wildlife including T&E Spp.	Alison McCartney Natural Resource Specialist	ASM	9/18/13

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Date: 9/18/13

Reviewed by: Gary Taylor
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Date: 9/18/2013



United States Department of the Interior

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Environmental Assessment ES-020-2013-21

EOI #1736, Sabine Parish, Louisiana Lease EA

Prepared by: Alison McCartney
Date: September 16, 2013

CH 1 – PURPOSE OF AND NEED FOR THE PROPOSED ACTION

Introduction

This environmental assessment (EA) is prepared to address a proposed federal oil and gas lease nomination in Sabine Parish, Louisiana pursuant to the Minerals Leasing Act of 1920, as amended. A federal oil and gas lease is a legal contract that grants exclusive rights to the lessee to develop federally owned oil and gas resources.

Need for the Proposed Action

The development of oil and natural gas is essential to meeting the nation's future needs for energy. Private exploration and development of federal oil and gas reserves are integral to the Bureau of Land Management's (BLM) oil and gas leasing programs under the authority of the Mineral Leasing Act 1920, as amended, the Mineral Leasing Act for Acquired Lands of 1947, as amended, the Federal Land Policy and Management Act of 1976 and the Energy Policy Act of 2005. The oil and gas leasing program managed by BLM encourages the development of domestic oil and gas reserves and reduction of U.S. dependence on foreign sources of energy. The tract considered for lease in this analysis was nominated by an Expressions of Interest (EOI) from private industry.

On January 28, 2013, the BLM Southeastern States Field Office (SSFO) received a request from the BLM Eastern States Office for a National Environmental Policy Act (NEPA) analysis report on 3 acres of land with the following legal description: T8N, R12W, Sec. 12, Lot 4. This nomination is located on privately owned land in Sabine Parish, Louisiana Meridian, Louisiana.

Management Objectives of the Action

The objective of the proposed action is to make available for lease 3 acres in Sabine Parish, Louisiana to provide exclusive rights to the lessee to develop federally owned oil and gas resources.

Land Use Plan Conformance

The proposed action does not conflict with any known State or local planning, ordinance or zoning. This area is not covered by a BLM Resource Management Plan. According to the regulations at 43 CFR 1610.8 (b) (1), however, this environmental assessment will be used as a basis for making a decision on the proposal.

Applicable Regulatory Requirements and Required Coordination

Applicable regulatory requirements and required coordination for lease development of federal oil and gas minerals is authorized by several statutes including: The Mineral Leasing Act, as amended and supplemented (30 U.S.C. 181), The Mineral Leasing Act of 1947, as amended (30 U.S.C. 351-359), The National Historic Preservation Act, The American Indian Religious

Freedom Act, The Native American Graves Protection and Repatriation Act, E.O. 13007, and/or other statutes and executive orders.

The following agencies/tribes were contacted (Appendix C):

U.S. Fish and Wildlife Service, Louisiana Ecological Services
Louisiana Natural Heritage Program
Louisiana State Historic Preservation Officer
Tunica-Biloxi Tribe of Louisiana
Coushatta Indian Tribe
Chitimacha Tribe of Louisiana
Caddo Nation of Oklahoma
Seminole Nation of Oklahoma
Alabama-Quassarte Tribal Town
Alabama Coushatta Tribe of Texas
Choctaw Nation of Oklahoma
Jena Band of Choctaw
Mississippi Band of Choctaw Indians

The proposed lease was subject to public review for a 30-day period per publication of a newspaper of local distribution (Appendix E).

Decision(s) That Must Be Made

There are two decisions under consideration from the BLM for the proposed action. The first is to offer the federal oil and gas mineral estate for competitive leasing. The other decision would be to deny the action so that no development and surface disturbance would take place. BLM's policy is to promote oil and gas development as long as it meets the guidelines and regulations set forth by the National Environmental Policy Act of 1969 and other subsequent laws and policies passed by the U.S. Congress.

CH 2 – ALTERNATIVES INCLUDING THE PROPOSED ACTION

Introduction

A 3 acre tract of land has been nominated for a federal oil and gas lease in Sabine Parish, Louisiana. A federal oil and gas lease is a legal contract that grants exclusive rights to the lessee to develop oil and gas resources that may exist on split estate property.

Location

This EOI is located in Sabine Parish, Louisiana Meridian, Louisiana and has the following legal description: T8N, R12W, Sec. 12, Lot 4 (3 acres). The legal description for the nominated parcel is: T8N, R12W, Sec. 12, Lot 4. The parcel is located < 6 miles east/northeast of Zwolle and Highway 171. It is located < 1 mile north of Highway 120 and the east fork of Bayou Scie.

Proposed Action

The BLM, SSFO received a nomination or EOI, to lease 3 acres of federal mineral estate for oil and gas development in Sabine Parish, Louisiana. The lease would give the lessee exclusive rights to explore and develop oil and gas reserves on the lease, but does not in itself authorize surface disturbing activities. The competitive lease provides exclusive rights to develop the federal oil and gas resources, but does not obligate the company to drill a well on the federal mineral estate. The lease can be used to consolidate acreage to meet well spacing requirements, and/or the mineral estate may be acquired for speculative value. The BLM will require applicants to adhere to stipulations and lease notices/best management practices for oil or gas wells (Appendix B). The attached stipulations and lease notices/best management practices have been formulated while conducting our impact analysis and are made part of the proposed action.

The proposed nomination, if approved, would be offered for competitive sale with stipulations and notices generated through this and other consultations, as well as the National Environmental Policy Act (NEPA) process. Once awarded, the successful bidder is required to submit an Application for Permit to Drill (APD) to the BLM before any ground disturbance is authorized. In the APD, the company identifies a proposed drill site and provides the BLM with specific details on how and when they propose to drill the well within the constraints of the lease document. Upon receipt of an APD, BLM conducts an onsite inspection with the company, and when possible the private land owner or surface managing agency. NEPA and the Endangered Species Act (ESA) requirements must also be met at the APD stage and in those cases where there is the potential to affect federally or state-listed species, a site specific biological assessment is written, including the results of any biological surveys that may be indicated. This is submitted to U.S. Fish and Wildlife Service and/or the state wildlife agency for consultation, as appropriate. The lessee is required, as per lease stipulations, to comply with the recommendations of these consultations.

Typically, after approval of an APD, the petroleum industry follows a general plan and process for all proposed drill sites, as follows:

Spacing for the tract will be 40 acres per well. Preparation for the drilling process includes construction of a road, drilling pad, and reserve pit. Constructed access roads normally have a running surface width of approximately 30 feet; the length is dependent upon the well site location in relation to existing roads or highways. The average length of road construction will be about 0.5 miles. Therefore, about 2 acres would be affected by road construction. Typically 2.5 acres are cleared and graded level for the construction of the drilling pad for a well. If the well is gas and productive, and the flowline is in the road, we can estimate that another 0.5 acres may be affected by flowline construction. The total disturbed area for drilling a productive well will be approximately 5 acres. These disturbances are typical for private or Federal Ownership well locations. The excavation reserve pit is usually about five feet deep and is lined with bentonite clay to retain drilling fluids, circulated mud, and cuttings. Plastic or butyl liners (or its equivalent), that meet state standards for thickness and quality, are used on occasions when soils are determined incapable of holding pit fluids.

Because of the cost of the drilling rig, drilling usually continues around the clock. Wells in this area are usually drilled in 30 days. Once drilling is completed, excess fluids are pumped out of the pit and disposed of in a state authorized disposal site and the cuttings are buried. Wells would be drilled by rotary drilling using mud as the circulating medium. Mud pumps would be used to force mud down the drillpipe, thereby forcing the rock cuttings out the wellbore. Water would normally be from a well drilled on the site, however, water could be pumped to the site from a local pond, stream or lake through a pipe laid on the surface. Approximately 1500 barrels of drilling mud would be typically kept on the location. If a tract is adjacent to a producing field and water production will be expected during the life of the field, separation, dehydration and other production processing may be necessary. Construction of facilities off the Federal lease may be needed to handle this processing. Some processing or temporary storage may be necessary on site.

During well pad construction, the topsoil is stockpiled to be used during restoration activities. If the well is successful, the drill pad would be reduced to about 100' x 100' with the remaining surface area, including the reserve pit, re-graded and restored as per the BLM and surface owner requirements. A lease notice in the proposed lease encourages the use of non-invasive cover plants during all restoration and stabilization activities. Final seed mixtures and plantings are determined with recommendations from BLM with approval of the land owner. The remaining 100' x 100' pad is maintained for the life of the well. The life of a productive well may be 25 years. Following abandonment, the pad is subject to the same restoration parameters.

The following information on the federal mineral tract is based on information collected during a site visit conducted in 2013, aerial photographs, and topographic maps. Mitigation methods for potential negative impacts are listed in Appendix B as lease stipulations and lease notices. These recommended lease stipulations and notices have been developed to provide general habitat protection and setbacks to exclude sensitive habitats from oil and gas development. Recommended mitigation for the proposed action is suggested as stipulations for freshwater aquatic habitat, cultural resources and tribal consultations, endangered species and special plant species (Appendix B). Additional surveys may be required for special status species after site-specific proposals have been received by BLM during the development phase.

No Action

Under the No Action Alternative, the request to offer the proposed tract for an oil and gas lease would be denied. Potential economic benefits of production from this lease would be jeopardized.

CH. 3 – DESCRIPTION OF THE AFFECTED ENVIRONMENT

Introduction

EOI #1736 is located in Sabine Parish in west-central Louisiana. The parcel is entirely within the West Gulf Coastal Plain Ecoregion within the Coastal Plain Province. This region is

characterized by a southward facing plain of low, slightly hilly terrain that becomes a flat plain to the south and a broad marshy zone near the coast (USGS 1998).

This nomination is located on privately owned land in Sabine Parish, Louisiana Meridian, Louisiana with the following legal description: T8N, R12W, Sec. 12, Lot 4 (3 acres). (Appendix A). The parcel is located < 6 miles east/northeast of Zwolle and Highway 171. It is located < 1 mile north of Highway 120 and the east fork of Bayou Scie. The parcel consists of a young loblolly pine plantation. It is surrounded by pine plantations, recent clear cuts and oil and gas well sites.

Description of Project Area

Based on review of the elements listed on the SSFO NEPA Form and consideration of the Purpose and Need statement prepared for this EA, the following elements will be addressed in this EA: Air Quality, Environmental Justice, Cultural Resources, Native American Religious Concerns, Invasive/Exotic Species, Soils, Special Status Species, Migratory Birds of Concern, Wildlife and Vegetation, Wastes, Hazardous or Solid, Water Quality, Surface/Ground, Wetland/Riparian Areas/Floodplains, and Energy Policy.

Air Quality

The Clean Air Act of 1970, as amended, requires the establishment of National Ambient Air Quality Standards (NAAQS). Both primary and secondary standards are now in effect. Primary standards define levels of air quality that the Administrator of the Environmental Protection Agency (EPA) judges to be necessary, with an adequate margin of safety, to protect the public health. Secondary standards define levels of air quality that the Administrator of the EPA judges to be necessary to protect the public from any known or anticipated adverse effects of a pollutant. The NAAQS pollutants are monitored in Louisiana by the Louisiana Department of Environmental Quality (LDEQ). These include carbon monoxide, nitrogen dioxide, ozone, sulfur dioxide, total suspended particulate, particulate matter less than 10 microns, and lead. Ambient air quality measurements taken by the Louisiana Division for Environmental Quality (LDEQ) indicate that ambient air quality for the state is within the standards, except in the Baton Rouge area where air quality is in nonattainment for ozone (2008). The proposed project site is 226 miles northwest of Baton Rouge.

Class I areas for air quality have been designated for the United States. Under the Clean Air Act, a Class I area is one in which visibility is protected more stringently than under the national ambient air quality standards. These areas include national parks, wilderness areas, monuments, and other areas of special national and cultural significance. There is only one Class I area in Louisiana; Breton Wilderness Area. This 5,000 acre National Wildlife Refuge (NWR) is an island located in the Gulf of Mexico near Venice, Louisiana. This NWR is located over 400 miles south of the proposed project site.

Environmental Justice

Title IV of the Civil Rights Act of 1964 and related statutes ensure that individuals are not excluded from participation in, denied the benefit of, or subjected to discrimination under any program or activity receiving federal assistance on the basis of race, color, national origin, age, sex, or disability. Executive Order 12898 on Environmental Justice directs that programs, policies, and activities not have a disproportionately high and adverse human health and environmental effect on minority and low-income populations.

Cultural Resources

A literature search was conducted at the Louisiana Division of Archaeology online site files. While the area has not been surveyed and there are no recorded sites within one mile of the leasing area, the proposed lease area may have sites that would qualify as historic and cultural properties (36 CFR 61). A professionally conducted survey for historic properties would add information on human utilization of this area.

Native American Religious Concerns

Federally recognized Native Americans have been contacted about this proposed undertaking. However, currently, there are no known sites used by Native Americans for religious purposes. There are no known Sacred Sites or traditional cultural properties on this tract. If any such sites are present, access would be by an agreement between the landowner and the Native Americans. The BLM has no authority over access to this tract. The BLM's responsibility is limited to the area of surface disturbance if or when a proposal for development is submitted.

Invasive Exotic Species

There are a number of non-native species that are considered invasive in Louisiana and are monitored by the Louisiana State University (LSU) Ag Center. The following provides a list of some of the invasive species that can be found in Louisiana:

COMMON NAME	SCIENTIFIC NAME
Alligator weed	<i>Alternanthera philoxeroides</i>
Japanese climbing fern	<i>Lygodium japonicum</i>
Chinaberry	<i>Melia azedarach</i>
Johnson grass	<i>Sorghum halepense</i>
Chinese privet	<i>Ligustrum sinense</i>
Japanese honeysuckle	<i>Lonicera japonica</i>
Brazilian verain	<i>Verbena brasiliensis</i>
Cogon grass	<i>Imperata cylindrica</i>
Chinese tallow tree	<i>Triadica sebifera</i>
Common salvinia	<i>Salvinia minima</i>
Hydrilla	<i>Hydrilla verticillata</i>
Mimosa	<i>Albizia julibrissin</i>

Water hyacinth	<i>Eichhorinia crassipes</i>
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Source: LSU, 2004; USDA 2007.

Invasive species are not known to occur on the proposed project site.

Soils

There are 2 soil types in this parcel: Sacul fine sandy loam, 5 – 12% slopes, and Latonia fine sandy loam, 1 – 5% slopes. The Sacul association is commonly found in coastal planes on a shoulder or summit. The parent material is clayey fluviomarine deposits and it is moderately well drained with a high available water capacity (9.5 in). The Latonia association is found on stream terraces with a parent material of sandy marine deposits. It is well drained with a moderate available water capacity.

Special Status Species

Current state and federal lists of rare, threatened, endangered, and candidate species were reviewed with regards to potential impacts from the proposed project. Infrared aerial photography, topographic maps, and websites for the National Resources Conservation Service (NRCS) Web Soil Survey, the U.S. Fish and Wildlife Service (USFWS) and the Louisiana Natural Heritage Program (LNHP) were also accessed to determine potential affects that the proposed project could have on special status species. Table 1 provides the USFWS list of federally listed species that occur in Sabine Parish. Also included in the table is BLMs determination for potential effects that the proposed leases could have on each species. Below the table is a description of each species, known habitat requirements, and justification for determination.

Table 1: Summary of Effects		
Species	Federal Status	Determination
Bald Eagle (<i>Haliaeetus leucocephalus</i>)	Delisted	No Effect Due to Unsuitable Habitat
Red-cockaded woodpecker (<i>Picoides borealis</i>)	Endangered	No Effect Due to Unsuitable Habitat

Bald Eagle (*Haliaeetus leucocephalus*) (Delisted)

De-listed on June 28, 2007, the Bald Eagle continues to be protected under the Bald and Golden Eagle Protection Act of 1940 and the Migratory Bird Treaty Act. Bald Eagles typically build their nests in tall trees or cliffs that offer unrestricted flight patterns and visibility, within 1 to 2 miles of large water bodies. In Louisiana, the Bald Eagle nests primarily in southeastern coastal parishes, and is occasionally observed on large lakes in the northern or central parishes during the winter. This parcel does not contain suitable habitat for bald eagles.

Red-cockaded woodpecker (*Picoides borealis*) (Endangered)

The red-cockaded woodpecker is both federally and state-listed as endangered. Appropriate habitat for the woodpecker includes mature pine forests and mixed pine-upland hardwood forest with little or no hardwood mid-story. The average cavity tree age ranges from 60 to 126 years for longleaf pine, 70 to 90 years for loblolly pine, and 75 to 149 years for shortleaf pine. The woodpeckers forage in habitat consisting of pine stands with an average DBH of 9 inches or greater, and in pole stands with 4 to 9 inches DBH. There are fewer than 400 known colonies of the red-cockaded woodpecker in Louisiana, most of which are in Kisatchie National Forest (LDWF, 2004a). The project site does not provide suitable foraging or preferred roosting habitat for the red-cockaded woodpecker.

Migratory Bird Species of Concern

The following provides a list of migratory birds with the potential to occur on the proposed site based on species preference for pine forests:

Species	Habitat Suitability
American swallow-tailed kite	Marginal
American kestrel	Marginal
Chuck-will's-widow	Suitable
Red-headed woodpecker	Marginal
Brown-headed nuthatch	Marginal
Bewick's wren	Marginal
Wood thrush	Marginal
Prairie warbler	Marginal
Worm-eating warbler	Marginal
Kentucky warbler	Marginal
Louisiana waterthrush	Marginal
Bachman's sparrow	Marginal
Smith's Longspur	Marginal
Harris's sparrow	Marginal

No migratory bird species of concern are known to occur on the proposed tract.

Wildlife and Vegetation

This 3 acre parcel consists of a young loblolly pine plantation. The surrounding area consists of planted pines, recently clear cut areas, and oil and gas well sites. Wildlife diversity is severely limited for this tract due to the homogenous nature, young, small pine trees and lack of forest diversity in the surrounding area.

Species likely to occur on the tract and surrounding area include; white-tailed deer (*Odocoileus virginianus*), northern raccoon (*Procyon lotor*), red bat (*Lasiurus borealis*), red-shouldered hawk (*Buteo lineatus*), box turtle (*Terrapene carolina*) and timber rattle snake (*Crotalus horridus*).

Wastes, Hazardous or Solid

During the on site inspections, no hazardous or solid waste disposal site were found on the lease tracts.

Water Quality, Surface/Ground

Surface Water Quality

The most frequently cited suspected causes of impairment for all water bodies combined in Louisiana are fecal coliforms, primarily from septic tanks and municipal sewage treatment systems; low dissolved oxygen from sewage, agriculture, or natural causes; sediment-related problems such as turbidity, suspended solids, and siltation caused by agriculture, forestry, sewage systems, construction, hydro-modification, resource extraction, or natural processes; and mercury related to fish consumption advisories, due primarily to atmospheric deposition of mercury on the watershed. Many of the suspected sources of water quality impairment are known collectively as nonpoint source pollution because it typically does not come from a single point of discharge but runs across the land when it rains and is carried through small canals and streams to major water bodies (LDEQ 2008).

Many of Louisiana's water bodies remain impaired for the designated use of fish and wildlife propagation. This is largely because there are many possible causes and sources of impairment impacting this use, and any one of these causes can result in a water body being considered impaired for fish and wildlife propagation. There are more than 30 different suspected causes of impairment reported as impacting fish and wildlife propagation. With the exception of mercury, all of the top eight suspected causes of impairment generally can be related to nonpoint sources of pollution. The remaining causes of impairment generally are related to various forms of industry, small business, or municipal sources (LDEQ 2008).

The proposed project site contains an intermittent stream which flows southward to Bayou Brushy. Since the general gradient of the acreage slopes toward Bayou Brushy, surface runoff, sediments transported by erosional activity, and developmental effluent have a potential to flow into the Bayou. The Bayou flows west for ~ 2,000 feet before draining into Bayou Scie. Bayou Scie flows southwest for ~ 6 miles before intersecting Bayou San Miguel, which is an eastern fork of the Toledo Bend Reservoir. Toledo Bend Reservoir is on the Sabine River and is the largest man-made lake in the south consisting of 185,000 acres. The Sabine River flows south for over 100 miles before draining into the Gulf of Mexico.

Ground Water Quality

The results of the Baseline Monitoring Program indicate that water quality is good in Louisiana aquifers. Although the overall quality of the state's ground water is good, there are more than 200 sites where active investigation or remediation of contaminated ground water is taking place, not including underground storage tank or Superfund sites. There also were 14 public water supply systems impacted by VOC contamination of ground water between 1989 and 2002 (GWPC 2009b).

The proposed site is located within the Mississippi embayment aquifer system which consists of 6 aquifers that crop out as an arcuate band of poorly consolidated to unconsolidated, bedded

sand, silt and clay. Geologic units of the aquifer system range from Late Cretaceous to middle Eocene in age. These tracts are located within the Middle Claiborne aquifer. Aquifers of the Mississippi embayment aquifer system consist of an interbedded sequence of poorly consolidated fluvial, deltaic, and marine deposits in which diagenesis or postdepositional geochemical processes have not greatly altered the original pattern of permeability. The hydraulic conductivity of the unconsolidated to poorly consolidated sediments that compose the aquifers of the Mississippi embayment aquifer system does not appear to have been greatly reduced by cementation or compactions. Consequently, the distribution of hydraulic conductivity and transmissivity of the Mississippi embayment aquifer system can be inferred from maps of sediment lithofacies, if a direct correlation between sediment type and aquifer permeability is assumed.

Wetlands/Riparian Areas/Floodplains

An intermittent stream runs east/west through the center of this tract.

Energy Policy

The area contains no features related to energy development, production, supply or distribution.

Ch. 4 - ENVIRONMENTAL IMPACTS OF THE PROPOSED ACTION AND ALTERNATIVES

Introduction

This chapter assesses potential environmental consequences associated with direct, indirect, and cumulative effects of the Proposed Action and alternatives.

Based on review of the elements listed on the JFO NEPA Form and consideration of the Purpose and Need statement prepared for this EA, the following elements will be addressed in this EA: Air Quality, Environmental Justice, Cultural Resources, Native American Religious Concerns, Invasive/Exotic Species, Soils, Special Status Species, Migratory Birds of Concern, Wildlife and Vegetation, Wastes, Hazardous or Solid, Water Quality, Surface/Ground, Wetland/Riparian Areas/Floodplains, and Energy Policy.

Air Quality

If the lease is developed for oil and gas production, impacts to air quality associated with construction, drilling, production and abandonment could come from the following sources: (1.) fugitive dust generated from vehicle traffic along dirt or gravel roads during transportation of employees and equipment; (2.) exhaust from heavy machinery, vehicles, compressors, drilling rig prime movers, generators, and other internal combustion engines used during site construction, drilling, flowline installation, production, and abandonment and other production equipment such as pumps, separators, heater treaters, boilers; and (3.) fugitive VOC escaping

from leaky pipe valves, flanges, and storage tanks during loading of crude on to tank trucks, and accidental releases/spills of hydrocarbons.

Fugitive dust created during road, drill pad, flowline construction, and abandonment would increase suspended particulates in the air. Also, the regulated air pollutants nitrogen oxides (NO_x), sulfur oxides (SO_x), VOC, and particulates (Pm) will be emitted from the above referenced sources. These conditions could temporarily impact the ambient air quality in the immediate vicinity of the leased area. The generation of suspended particulates, a regulated pollutant, could cause a temporary and localized disturbance to people who work in the area. However, the impacts from the combined frequency and volume of fugitive dust and regulated air pollutants are expected to be minimal, very localized, and of short duration.

Environmental Justice

There is no adverse human health and environmental effects anticipated from potential development on minority and low-income populations in the areas surrounding this tract.

Cultural Resources and Native American Religious Concerns

Cultural resource surveys have not been conducted, therefore direct and indirect impacts may occur to cultural resources or to a potentially sacred Native American religious site if there is ground disturbance. Direct impacts are those such as completely destroying a site by bulldozing the area and workers picking up artifacts. Indirect impacts are those such as erosion or compaction of the soil on the site. However, if sites are located and recorded before ground disturbance begins, these impacts can be avoided or mitigated.

A stipulation regarding cultural resources and Native American religious concerns applies to this lease (Appendix B) and is applicable for all the proposed parcels. The stipulation states that the BLM will not approve any ground disturbing activities that may affect historic properties and/or resources until it completes its obligations under applicable requirements of the National Historic Preservation Act and other authorities. If currently unknown burial sites are discovered during development activities associated with this lease, these activities must cease immediately, applicable law on unknown burials will be followed and, if necessary, consultation with the appropriate tribe/group of federally recognized Native Americans will take place.

Invasive/Exotic Species

Surface disturbing activities have the potential to introduce or promote the spread of invasive, nonnative plant species. Impacts are dependent on the species planted during restoration activities and the management of the site during and following restoration. Revegetating areas after soil disturbance with competitive grasses greatly reduces the ability for invasive species to take hold in an area. The Natural Resources Conservation Service recommends the mixture below for revegetation efforts in Louisiana:

Blend #1 LA (weight in pure live seed or PLS lb/ac)

- Switchgrass 60% = 2.4 lb

- IL Bundleflower 20% = 2.4 lb
- Partridge Pea 15% = 1.2 lb
- Black-eyed Susan 3% = .03 lb
- Plains Coreopsis 2% = .02 lb

A lease notice regarding invasive/exotic species applies to this lease (Appendix B). The lease notice states that the use of native or non-invasive plants in seeding mixtures will be encouraged to stabilize disturbed areas and during restoration activities. Construction sites will be surveyed for invasive species prior to ground disturbance. If invasive species are found, the proper control measures will be used to either eradicate the species from the area or minimize its spread to other areas.

Soils

Well site and access road construction would have direct impacts to soils. These impacts would be limited to those areas where vegetation is removed and construction occurs. The direct impacts would be of two types: (1) physical removal, leveling and mixing of surface soils and (2) soil compaction. The first impact would be caused by site preparation for construction of the well pad, related structures, road construction, flowline construction and wind and water erosion after vegetation is removed. This would cause a mixing of soil horizons and cause a short term loss of soil productivity. The second impact, soil compaction, would be caused by vehicle and machinery travel. Compaction decreases air and water infiltration into the soil profile thus reducing soil productivity. The indirect impact would be that of erosion and siltation of drainages and streams. Prompt cultivation and re-vegetation of impacted soil areas should reduce the possibility of soil erosion thus preventing an increase of siltation into drainages or streams from run-off. Site specific conditions of approval would be developed prior to approval of an APD to address soil erosion.

Special Status Species

There is no available habitat at the proposed site for the bald eagle, red-cockaded woodpecker, or Louisiana pine snake, as a result, BLM has determined that there will be no effect on those species from the proposed project. Informal consultation was initiated with FWS. FWS concurred with our determination of “no effect” for all 3 species.

Consultation with the LNHC occurred and they reviewed their files for records indicating the occurrence of rare plants and animals, outstanding natural communities, natural or scenic rivers, or other elements of special concern within or near the project site. No records were found (Appendix C).

Approval of the proposed lease does not in itself authorize any ground disturbance. If there is any future ground disturbance activities, the lessee will be required to submit an Application for Permit to Drill (APD). Additional consultation with FWS will occur at that time, if necessary. Stipulations and lease notices regarding rare species apply to this proposal. The stipulation states that the BLM may recommend modifications to exploration and development proposals to further the conservation and management objectives for threatened, endangered, or other special

status plant or animal species or their habitat to avoid BLM-approved activity that would contribute to a need to list such a species or their habitat. The lease notice gives recommendations for disposing produced water in such a way as to protect aquatic habitats for and to avoid potential impacts to special status fish, mussels, turtles, snails, plants, and migratory birds.

To protect threatened, endangered, candidate, proposed, and BLM sensitive plant species a second stipulation applies to this lease and applies to all proposed parcels. The stipulation states that all suitable special status plant species habitat will be identified during environmental review of any proposed surface use activity. If field examination indicates that habitat of one or more of these species is present, the BLM will require a survey by a qualified botanist for special status plants during periods appropriate to each species. Operations will not be allowed in areas where sensitive plants would be affected.

Migratory Bird Species of Concern

The list of migratory birds that have the potential to occur on the proposed tract is based on the presence of pine forests. Nesting and foraging habitat for birds will be altered if forests are cut for oil and gas development. Many of the species with the potential to occur on this tract could move to similar habitats in surrounding areas. After the well is put into production and during reclamation activities bird species diversity would be altered depending on successional stage of the site and adequacy of restoration efforts.

To protect perch and roosting sites and terrestrial habitats for and to avoid potential impacts to migratory birds and federally listed wildlife a lease notice applies to this lease and applies to all proposed parcels. The lease notice provides recommendations regarding reserve pits, maximum design speeds for roads, and powerline construction to minimize effects on migratory birds.

Wildlife and Vegetation

The Reasonable Foreseeable Development Scenario (RFD) for EOI # 1736 predicts that 4 federal wells will be drilled from 1 pad. The total disturbance predicted would be 6.09 acres, with 5.74 acres disturbed for the well pad and pit, 0.69 acres for the access road, and 0.34 acres reclaimed. (Appendix D).

Many of the species expected to occur on this site have broad habitat requirements and would continue to be found in a variety of habitats in the surrounding areas. Wildlife use of the site after the well is put into production would vary depending on vegetation and succession stage. Once put into production, the well pad would be reduced in size and the reserve pit would be graded and seeded. The producing well site would be subject to regular maintenance and inspection. Wildlife use of the site is dependent on the adequacy of restoration. However, over the life of the well, some of the acreage would be excluded from utilization by most wildlife species.

Wastes, Hazardous or Solid

The operations would typically generate the following wastes; (a) discharge of drilling fluids and cuttings into the reserve pits; (b) wastes generated from used lubrication oils, hydraulic fluids, and other fluids used during production of oil and gas, some of which may be characteristic or listed hazardous waste; and (c) service company wastes from exploration and production activities as well as containment of some general trash. Certain wastes unique to the exploration, development, and production of crude oil and natural gas have been exempted from Federal Regulations as hazardous waste under Subtitle C of the Resource Conservation and Recovery Act (RCRA) of 1976. The exempt waste must be intrinsic to exploration, development or production activities and is not generated as part of a transportation or manufacturing operation. The drilling fluids, drill cuttings, and produced waters are classified as a RCRA exempt waste, and the proposed action would not introduce hazardous substances into the environment if they are managed and disposed of properly under Federal, State, and local waste management regulations and guidelines.

Water Quality, Surface/Ground

The proposed project site contains an intermittent stream which flows southward to Bayou Brushy. Since the general gradient of the acreage slopes toward Bayou Brushy, surface runoff, sediments transported by erosional activity, and developmental effluent have a potential to flow into the Bayou. Construction would cause some minor erosion and re-deposition of soil a short distance away from the construction area. Site specific conditions of approval would be developed prior to approval of an APD to protect surface water quality. This may include but is not limited to construction of ditches, berms, terraces or other similar structures. Areas not needed for production would be reclaimed and stabilized to control erosion.

Improper casing and/or cementation can result in contamination of ground water aquifers. The BLM requires that the operator must isolate freshwater-bearing formations and other usable water containing 10,000 ppm or less of total dissolved solids (TDS) and other mineral-bearing formations and protect them from contamination by using proper casings. In addition, the BLM requires lining the reserve and water pit with a suitable liner on a case-by-case basis.

Wetlands/Riparian Areas/Floodplains

To protect the water quality of watersheds and natural stream substrate and morphology and to avoid potential impacts to aquatic species and their habitat, a stipulation regarding freshwater aquatic habitat applies to this lease. The stipulation states that no surface occupancy or disturbance, including discharges, are permitted within 250 feet of a river, stream, wetland spring, headwater, wet meadow, wet pine savanna, pond, tributary, lake, coastal slough, sand bar, vernal pools, calcareous seepage marsh, or small, marshy calcareous stream.

No Action

Under this alternative, the parcels within the proposed action would remain unleased at this point in time. It could be offered for leasing in the future, but may be subject to additional

environmental analysis at that point in time. If the parcels were not leased there would be no direct impacts to the potential drill location and therefore no effects on all of the critical elements above except Cultural Resources and Native American Religious Concerns (see below). As compared to the proposed action, there would be less disturbance resulting from oil and gas related actions.

Cultural Resources

If the area is not leased and cultural resource surveys are not conducted, direct and indirect impacts may occur. Direct impacts are those such as completely destroying a site by “relic hunters” or by people picking up artifacts. Other direct impacts may be the mixing of layers in a site by plowing or the destruction of a site by land leveling. Indirect impacts are those such as after timber thinning or clear-cutting erosion of the remains of a site. Hunting activities may cause other impacts to the surface such as the deposition of spent ammunition shells and other items. However, the use of the property is the purview of the land owner, and any cultural resource site and its artifacts are the property of the land owner.

Native American Religious Concerns

Under this alternative, places of Native American Religious Practice could be impacted by activities of the landowner, unless there was a formal agreement between the landowner and the Native American tribe. Direct impacts could be the destruction of a site, and an indirect impact could be the landowner placing a fee on the use of the area.

Cumulative Impacts

Cumulative impacts are the impacts to the environment which result from the incremental impact of the action when added to other past, present, and reasonable foreseeable future actions. Since the proposed action would not authorize surface occupancy, no environmental impacts are anticipated on the lease. Hence, the proposed action will not contribute to the impacts to other past, present, or reasonable foreseeable actions. For Cultural Resources and Native American Religious Concerns this is dependent upon cultural resource surveys being conducted.

Energy Policy

Energy Policy Act of 2005 – Sets forth an energy research and development program covering: (1) energy efficiency; (2) renewable energy; (3) oil and gas; (4) coal; (5) Indian energy; (6) nuclear matters and security; (7) vehicles and motor fuels, including ethanol; (8) hydrogen; (9) electricity; (10) energy tax incentives; (11) hydropower and geothermal energy; and (12) climate change technology.

Title III: Oil and Gas

Subtitle B: Natural Gas

(Sec. 313) Designates FERC as the lead agency for coordinating federal permits and other authorizations and compliance with the National Environmental Policy Act of 1969 (NEPA). Directs FERC to establish a schedule for all federal authorizations.

Subtitle C: Production

(Sec. 322) Amends the Safe Drinking Water Act to exclude from the definition of underground injection the underground injection of fluids or propping agents (other than diesel fuels) pursuant to hydraulic fracturing operations related to oil or gas, or geothermal production activities.

Subtitle F: Access to Federal Lands

(Sec. 361) Requires the Secretary of the Interior to perform an internal review of current federal onshore oil and gas leasing and permitting practices.

(Sec. 364) Amends the Energy Act of 2000 to revise the requirement that the Secretary of the Interior, when inventorying all onshore federal lands, identify impediments or restrictions upon oil and gas development.

(Sec. 366) Amends the Mineral Leasing Act to set deadlines for an expedited permit application process.

(Sec. 368) Prescribes guidelines governing energy right-of-way corridors on federal land.

Directs the Secretaries of Agriculture, of Commerce, of Defense, of Energy, and of the Interior (the Secretaries), in consultation with FERC, states, tribal or local government entities, affected utility industries, and other interested persons, are directed to consult with each other and to: (1) designate corridors for oil, gas, and hydrogen pipelines and electricity transmission and distribution facilities on federal land in the 11 contiguous Western States; (2) incorporate the designated corridors into the relevant energy land use and resource management or equivalent plans; and (3) ensure that additional corridors are promptly identified and designated.

(Sec. 371) Amends the Mineral Leasing Act to cite conditions for the reinstatement of oil and gas leases terminated for certain failure to pay rentals.

Subtitle G: Miscellaneous

(Sec. 390) States that action by the Secretary of the Interior in managing the public lands, or the Secretary of Agriculture in managing National Forest System Lands, with respect to certain oil or gas drilling related activities shall be subject to rebuttable presumption that the use of a categorical exclusion under NEPA would apply if the activity is conducted pursuant to the Mineral Leasing Act for the purpose of exploration or development of oil or gas.

CH. 5 - LIST OF AGENCIES AND PERSONS CONSULTED:

The following agencies/tribes were contacted (Appendix C):

U.S. Fish and Wildlife Service, Louisiana Ecological Services
Louisiana Natural Heritage Program
Louisiana State Historic Preservation Officer
Tunica-Biloxi Tribe
Caddo Indian Tribe
Chickasaw Nation

Alabama Coushatta Tribe
Coushatta Tribe
Chitimacha Tribe of Louisiana
Alabama-Quassarte Tribal Town
Muscogee (Creek) Nation of Oklahoma
Thlopthlocco Tribal Town
Choctaw Nation of Oklahoma
Mississippi Band of Choctaw
Quapaw Tribe of Oklahoma

Literature Cited

- LDEQ, Louisiana Department of Environmental Quality. 2008. Final Draft 2008 Louisiana Water Quality Inventory: Integrated Report.
- LDWF, Louisiana Department of Wildlife and Fisheries. 2004. Rare Species Tracking List and Fact Sheet. Louisiana Natural Heritage Program.
- Hamel, P. 1992. The Land Manager's Guide to the Birds of the South.
- Peterson, R. 1980. Birds of Eastern and Central North America.
- USDA, United States Department of Agriculture. 2007. Nonindigenous Species List – Louisiana. Southeast Ecological Science Center.
- USFWS, U.S. Fish and Wildlife Service. 2002. Birds of Conservation Concern.

List of Preparers

Specialist Name

Title, Organization

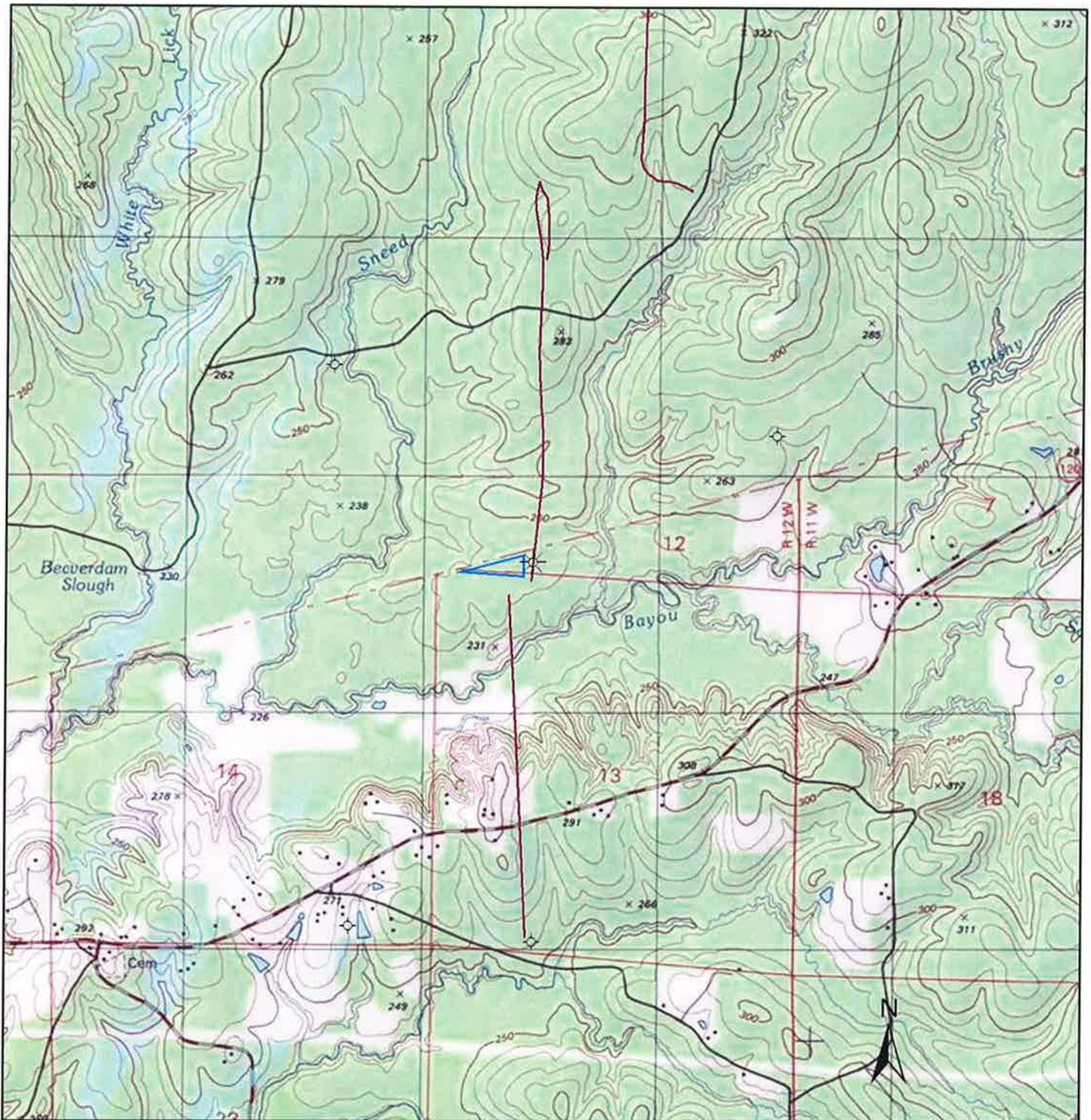
Alison McCartney
John Sullivan
Gary Taylor

Natural Resource Specialist
Archaeologist
Planning and Environmental Coordinator

APPENDIX A

Proposed Lease Tract Locations

Proposed Federal Oil and Gas Lease
EOI 1736



	Proposed Lease Area
Oil and gas wells	
	Dry Hole, Temporarily Abandoned
	Gas Well
	Well bore path

Proposed lease area
Sabine Parish, Louisiana, Louisiana Meridian
T. 8N., R. 12W.,
Sec. 12, Lot 4 - 2.86 acres

U.S. Department of the Interior
Bureau of Land Management
Eastern States
Southeastern States Field Office
Jackson, Mississippi

This map contains portions of the following USGS 1:24,000 Topographic Quadrangle: Belmont
No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of this data for individual use or aggregate use with other data.

APPENDIX B

Proposed Lease Stipulations and Lease Notices

Stipulations

Cultural Resources and Tribal Consultation

Stipulation: This lease may be found to contain historic properties and/or resources protected under the National Historic Preservation Act (NHPA), American Indian Religious Freedom Act, Native American Graves Protection and Repatriation Act, E.O. 13007, or other statutes and executive orders. The BLM will not approve any ground disturbing activities that may affect any such properties or resources until it completes its obligations under applicable requirements of the NHPA and other authorities. These obligations may include a requirement that you provide a cultural resources survey conducted by a professional archaeologist approved by the State Historic Preservation Office (SHPO). If currently unknown burial sites are discovered during development activities associated with this lease, these activities must cease immediately, applicable law on unknown burials will be followed and, if necessary, consultation with the appropriate tribe/group of federally recognized Native Americans will take place. The BLM may require modification to exploration or development proposals to protect such properties, or disapprove any activity that is likely to result in adverse effects that cannot be successfully avoided, minimized or mitigated.

Endangered Species

Stipulation: The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. ' 1531 et seq., including completion of any required procedure for conference or consultation.

Exception: None

Modification: None

Waiver: None

Sensitive Plant Species

Stipulation (CSU): All suitable special status plant species habitat will be identified during environmental review of any proposed surface use activity. If field examination indicates that habitat of one or more of these species is present, the BLM will require a survey by a qualified botanist for special status plants during periods appropriate to each species. Operations will not be allowed in areas where sensitive plants would be affected.

Objective: To protect threatened, endangered, candidate, proposed, and BLM sensitive plant species.

Exception: An exception may be granted if the operator agrees to implement measures developed in consultation with USFWS and in coordination with State agencies.

Modification: The stipulation may be modified if it is determined that a portion of the lease area does not contain sensitive plant species habitat.

Waiver: The stipulation may be waived if, based on field surveys, it is determined that the lease area does not contain sensitive plant species habitat.

Freshwater Aquatic Habitat

Stipulation (NSO): No surface occupancy or disturbance, including discharges, are permitted within 250 feet of a river, stream, wetland spring, headwater, wet meadow, wet pine savanna, pond, tributary, lake, coastal slough, sand bar, vernal pools, calcareous seepage marsh, or small, marshy calcareous stream. If the slope exceeds 10 percent, the buffer may be extended to 600 feet to provide adequate protection for aquatic habitats and associated species.

Objective: To protect the water quality of watersheds and natural stream substrate and morphology and to avoid potential impacts to aquatic species and their habitat.

Exception: An exception may be granted if the operator agrees to 1) span creeks, rivers, wetlands, and floodplains by attaching pipelines to bridges; 2) directionally drill wells and pipelines from upland sites under creeks, rivers, other waters, and wetlands or 3) implement other measures developed in consultation with USFWS and in coordination with State agencies.

Modification: The buffer may be reduced if the adjacent waterway has been surveyed for 100 yards upstream and 300 yards downstream of the site, and the results document the lack of suitable/occupied/critical habitat for listed species which may be affected by the project, as determined by the BLM and USFWS.

Waiver: None

Lease Notices/Best Management Practices

Migratory Birds and Federally Listed Wildlife

Objective: To protect perch and roosting sites and terrestrial habitats for and to avoid potential impacts to migratory birds and federally listed wildlife.

Any reserve pit that is not closed within 10 days after a well is completed and that contains water must be netted or covered with floating balls, or another method must be used to exclude migratory birds.

All powerlines must be built to protect raptors and other migratory birds, including bald eagles, from accidental electrocution, using methods detailed by the Avian Power Line Interaction Committee (APLIC 2006)

Perching and Nesting Birds and Bats

Objective: To prevent birds and bats from entering or nesting in or on open vent stack equipment.

Open vent stack equipment, such as heater-treaters, separators, and dehydrator units, will be designed and constructed to prevent birds and bats from entering or nesting in or on such units and, to the extent practical, to discourage birds from perching on the stacks. Installing cone-shaped mesh covers on all open vents is one suggested method. Flat mesh covers are not expected to discourage perching and will not be acceptable.

Invasive and Non-Native Species

Objective: To discourage the spread of invasive, non-native plants.

Use of native or non-invasive plants in seeding mixtures will be encouraged to stabilize disturbed areas and during restoration activities. Construction sites will be surveyed for invasive species prior to ground disturbance. If invasive species are found, the proper control measures will be used to either eradicate the species from the area or minimize its spread to other areas. If cogongrass is found on site, equipment will be washed before exiting the site to prevent the spread of this highly invasive species to other locations. Post-construction monitoring for cogongrass and other invasive plant species should be conducted to ensure early detection control. In the case of split-estate lands, final seed mixtures will be formulated in consultation with the private landowner.

Pesticide Application

Objective: To protect the water quality of watersheds and natural stream substrate and morphology supporting special status species and their host species.

Any ground application of herbicides or other pesticides, sterilants, or adjuvants within 150 feet of listed species or habitat will require site-specific control measures developed in coordination or formal consultation with USFWS. No aerial application of herbicides or pesticides will be permitted.

APPENDIX C

Correspondence



United States Department of the Interior



Bureau of Land Management

Southeastern States Field Office

411 Briarwood Drive, Suite 404

Jackson, Mississippi 39206

<http://www.es.blm.gov>

IN REPLY REFER TO:

8100 (020) JMS Sabine Parish, LA EOI 1736

Feb. 21, 2013

Chairman Earl Barbry, Sr.
Tunica-Biloxi Tribe of Louisiana
P.O. Box 332
Marksville, Louisiana 70523

Dear Chairman Barbry:

The Bureau of Land Management (BLM) has received an Expression of Interest (EOI 1736) to lease federal minerals under privately owned surface, i.e. split-estate minerals. The Bureau's reasonably foreseeable development scenario (RFD) for this proposed lease is 4 wells from 1 pad to be constructed on private surface with no more than 6.43 acres total, this includes access road, pipelines and pad, to be disturbed accessing federal minerals. The legal locations of the approximately 2.86 acres of federal mineral tracts are as follows (map enclosed):

Louisiana Meridian

Sabine Parish (Belmont Quadrangle)

T. 8 N., R. 12 W., Sec. 12, Lot 4 (Approx. 2.86 ac.)

Development locations have not been determined on a site-specific basis. Specific locations proposed for development are determined by the developer and surface owners. The BLM's surface responsibilities rest only within the boundaries of any proposed development.

A review of the Louisiana Division of Archaeology online site files shows no sites within the lease sale area although there are some sites within one mile of the proposed lease area. An archaeological survey will be required before any development and or ground disturbing activities begin. Also the report must be approved by both the Louisiana Division of Archaeology and the BLM before any ground disturbing activities take place. Any needed consultation will be concluded before ground-disturbing activities begin.



If you are aware of any sites or areas which are currently used for religious purposes or you recognize as sacred sites on these privately owned lands, please let us know so that impacts will not occur. As provided by law, these locations will be held in confidence.

Your information is requested within 30 days. If you have any questions, comments, or concerns about the BLM's processes or procedures concerning its consideration of cultural resources for this undertaking, please contact John M. Sullivan, Archaeologist, at (601) 977-5400 or email at John_M_Sullivan@BLM.Gov.

Sincerely,

**Original Signed
Bruce Dawson**

Bruce Dawson,
Field Manager

Enclosure

1 Map

cc via email: Mr. Earl Barbry, Jr., Tribal Historic Preservation Officer

Same letter sent as an original w/ a cc via email: to the attached list.

bc:

JFO CF & RF

ES RF

DWinters

AMcCartney

ES020: JMSullivan:02/21/13:601-977-5400:Sabine.T.8N.R.12W.Sec 12.EOI 1736.NA.Ltr



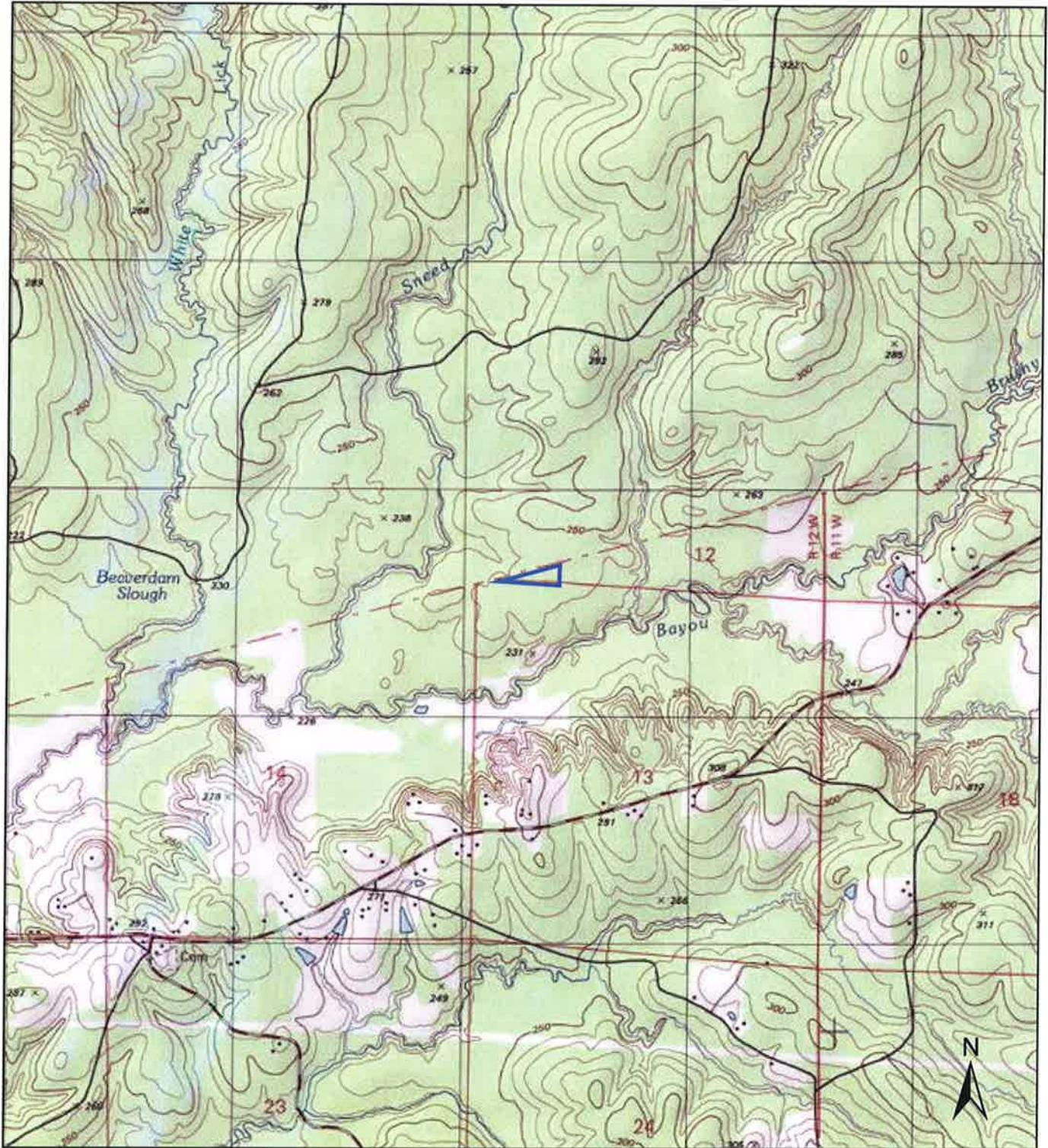
Original to:	cc: to these:
Mr. Earl Barbry, Sr., Chairman Tunica-Biloxi Tribe of Louisiana P.O. Box 331 Marksville, Louisiana 70523	Mr. Earl Barbry, Jr., Tribal Historic Preservation Officer Tunica - Biloxi Tribe 151 Melacon Dr. Marksville, LA 71351 earlii@tunica.org
Kevin Sickey, Chairman Coushatta Indian Tribe P.O. Box 818 Elton, LA 70532	Send Hard Copy to Mike Tarpley Linda Langley, Tribal Historic Preservation Officer Mike Tarpley, Deputy THPO P.O. Box 818 Elton, LA 70532 llangley@mcneese.edu kokua.aina57@gmail.com
John Paul Darden, Chairman Chitimacha Tribe of Louisiana P.O. Box 661 Charenton, LA 70523	Kimberly S. Walden, Tribal Historic Preservation Officer Chitimacha Tribe of Louisiana P.O. Box 661 Charenton, LA 70523 kim@chitimacha.gov
Brenda Shemayne Edwards, Chairwoman Caddo Nation of Oklahoma P.O. Box 487 Binger, Oklahoma 73009	Mr. Robert Cast, Tribal Historic Preservation Officer Caddo Nation of Oklahoma P.O. Box 487 Binger, OK 73009 rcast@caddonation.org ; mbotone@caddonation.org
Leonard Harjo, Principal Chief Seminole Nation of Oklahoma P.O. Box 1498 Wewoka, Oklahoma 74884	Natalie Deer, Cultural Preservation Office P.O. Box 1768 Seminole, OK 74868-1768 ndeere@seminolenation.com
Only send email to Preservation Officer Tarpie Yargee, Chief Alabama-Quassarte Tribal Town P.O. Box 187 Wetumka, OK 74883	Augustine Asbury, 2nd Chief/ Tribal Historic Preservation Officer P.O. Box 187 Wetumka, OK 74883 aqttcultural@yahoo.com
Only send email to Preservation Officer Colabe III Clem Sylestine, Second Chief Alabama-Coushatta Tribe of Texas 571 State Park Road 56 Livingston, TX 77351	Bryant J. Celestine, Historical Preservation Alabama-Coushatta Tribe of Texas 571 State Park Road 56 Livingston, TX 77351 celestine.bryant@actribe.org



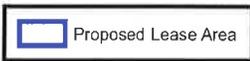
Original to:	cc: to these:
<p>Only send email to Preservation Officer Gregory Pyle, Chief Choctaw Nation of Oklahoma Drawer 1210 Durant, Oklahoma 74702-1210</p>	<p>Ian Thompson PhD, RPA, THPO, Tribal Archaeologist, Director Historic Preservation Dept. Johnnie L. Jacobs, Section 106 Coordinator 580-775-0914, 580-920-3181 (Fax) 1-800-522-6170 ext. 2216 P.O. Drawer 1210 Durant, OK 74702 ithompson@choctawnation.com; jjacobs@choctawnation.com</p>
<p>Phyliss J. Anderson, Chief Mississippi Band of Choctaw Indians P.O. Box 6010 Philadelphia, MS 39350</p>	<p>Mr. Ken Carleton, Cultural/Historic Preservation Office Mississippi Band of Choctaw Indians P.O. Box 6257 Philadelphia, MS 39350 kcarleton@choctaw.org</p>
<p>B. Cheryl Smith, Chief Jena Band of Choctaw P.O. Box 2717 Jena LA 71342</p>	<p>Dana Masters, Tribal Council and Tribal Historic Preservation Officer Jena Band of Choctaw P.O. Box 2717 Jena LA 71342 danammasters@aol.com</p>



Proposed Federal Oil and Gas Lease
EOI 1736



2,000 1,000 0 2,000 4,000 6,000 Feet



Proposed lease area
Sabine Parish, Louisiana, Louisiana Meridian
T. 8N., R. 12W.,
Sec.12, Lot 4 - 2.86 acres

U.S. Department of the Interior
Bureau of Land Management
Eastern States
Southeastern States Field Office
Jackson, Mississippi

This map contains portions of the following USGS 1:24,000 Topographic Quadrangle: Belmont

No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of this data for individual use or aggregate use with other data.



United States Department of the Interior



Bureau of Land Management

Southeastern States Field Office
411 Briarwood Drive, Suite 404
Jackson, Mississippi 39206
<http://www.es.blm.gov>

IN REPLY REFER TO:

8100 (020) JMS Rapides Parishes, LA EOI 1736

Feb. 21, 2013

Ms. Pam Breaux
State Historic Preservation Officer
Louisiana Office of Cultural Development
P.O. Box 44247
Baton Rouge, LA 70804-44247

Dear Ms. Breaux:

The Bureau of Land Management (BLM) has received an Expression of Interest (EOI 1736) to lease federal minerals under privately owned surface, i.e. split-estate minerals. The Bureau's reasonably foreseeable development scenario (RFD) for this proposed lease is 4 wells from 1 pad to be constructed on private surface with no more than 6.43 acres total, this includes access road, pipelines and pad, to be disturbed accessing federal minerals. The legal locations of the approximately 2.86 acres of federal mineral tracts are as follows (map enclosed):

Louisiana Meridian
Sabine Parish (Belmont Quadrangle)
T. 8 N., R. 12 W., Sec. 12, Lot 4 (Approx. 2.86 ac.)

Development locations have not been determined on a site-specific basis. Specific locations proposed for development are determined by the developer and surface owners. The BLM's surface responsibilities rest only within the boundaries of any proposed development.

A review of the Louisiana Division of Archaeology online site files shows no sites within one mile of the proposed lease area. An archaeological survey will be required before any development and or ground disturbing activities begin. Also the report must be approved by both



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the Louisiana Division of Archaeology and the BLM before any ground disturbing activities take place. Any needed consultation will be concluded before ground-disturbing activities begin.

Your concurrence of these procedures for Section 106 compliance is requested in 30 days. If you have any questions or concerns, please contact John M. Sullivan, Archeologist, at (601) 977-5439 or email at John_M_Sullivan@BLM.Gov.

Sincerely,

**Original Signed
Duane Winters**

Duane Winters,
Assistant Field Manager
Division of Lands and Renewable Resources

Enclosure
1 Map

bc:

JFO CF & RF

ES RF

DWinters

AMcCartney

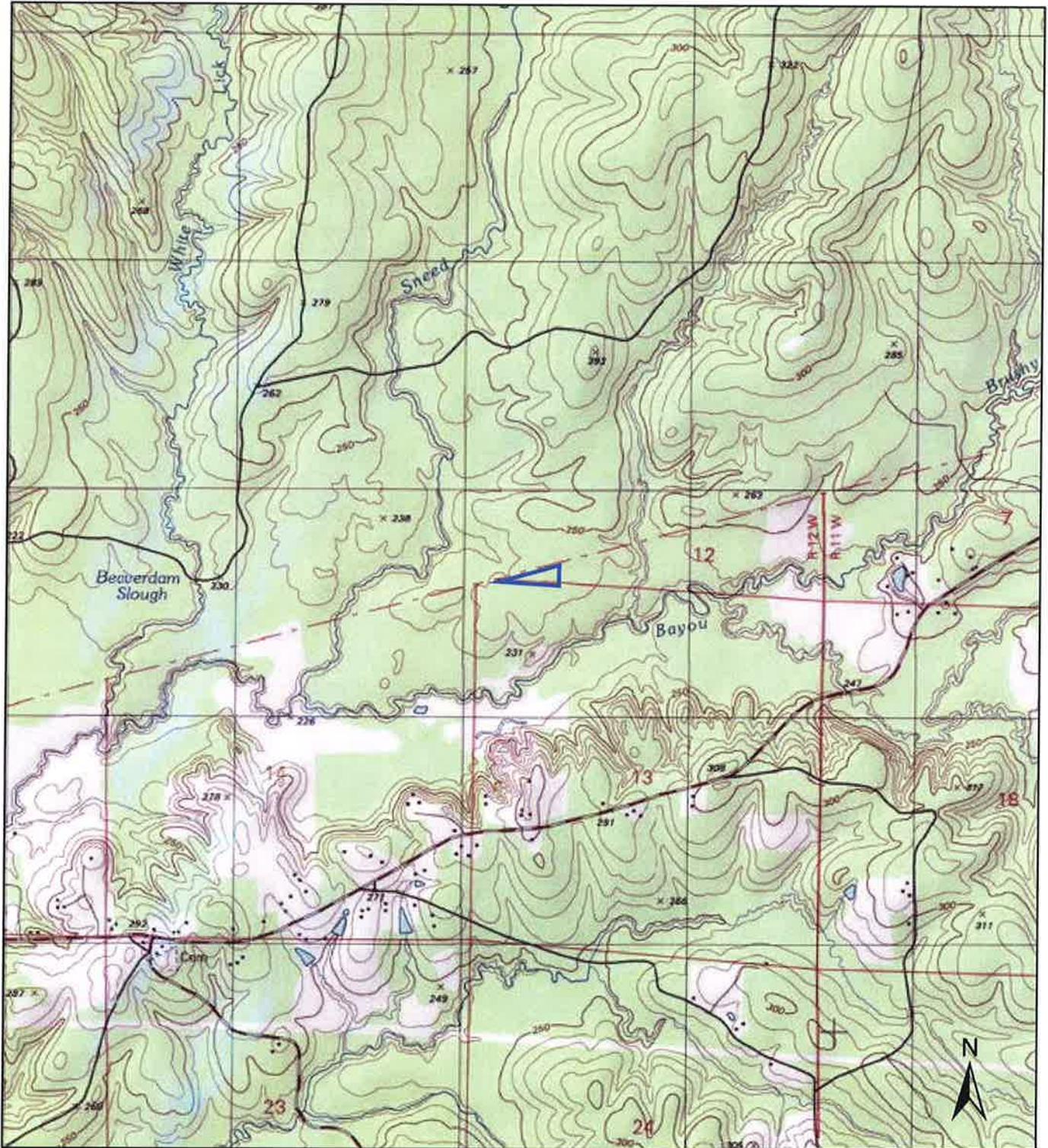
ES020: JMSullivan:02/21/13:601-977-5400:Rapides.T.8N.R.12W.Sec 12.EOI 1736.SHPO.Ltr



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**Proposed Federal Oil and Gas Lease
EOI 1736**



2,000 1,000 0 2,000 4,000 6,000 Feet

 Proposed Lease Area

Proposed lease area
Sabine Parish, Louisiana, Louisiana Meridian
T. 8N., R. 12W.,
Sec. 12, Lot 4 - 2.86 acres

**U.S. Department of the Interior
Bureau of Land Management
Eastern States
Southeastern States Field Office
Jackson, Mississippi**

This map contains portions of the following USGS 1:24,000 Topographic Quadrangle: Belmont

No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of this data for individual use or aggregate use with other data.

REASONABLY FORESEEABLE DEVELOPMENT SCENARIO

Case File Number: EOI 1736

Project Number:

Acres: 2.86

Location: Louisiana Meridian, Sabine Parish, Louisiana, T8N, R12W, Sec. 12, Lot 4

I. Reasonably Foreseeable Development

A. RFD Baseline Scenario Assumptions and Discussion

Objective horizon is Haynesville Shale. Commodity in natural gas.

Federal acreage will be incorporated into a state determined drilling unit. Drilling and production units are 640 acres. Project 4 wells drilled from 1 pad.

A 30' wide well access road will be constructed consisting of a 16' wide travel surface with a 7' buffer on each side.

If productive, multiple wells may be drilled from the existing pad.

If productive, oil and gas handling and production facilities will be constructed on the existing pad.

If productive, the reserve pit and part of the drill pad will be reclaimed when drilling and completion activities are concluded.

All disturbed acreage will be reclaimed if the well is non-productive.

B. Surface Disturbance Due to Oil and Gas Activity

Access Road: 0.69 acres (1000'X30')

Well Pad & Pit: 5.74 acres (500'X500')

Utility and/or Pipeline R.O.W: 0 – Use access road ROW

Initial Disturbance: 6.43 acres

Partial Reclamation of Drill Site: 0.34 acres

Net Disturbance for Productive Wells: 6.09 acres



BOBBY JINDAL
GOVERNOR

State of Louisiana
DEPARTMENT OF WILDLIFE AND FISHERIES
OFFICE OF WILDLIFE

ROBERT J. BARHAM
SECRETARY
JIMMY L. ANTHONY
ASSISTANT SECRETARY

Date August 6, 2013
Name Alison McCartney
Company Bureau of Land Management
Street Address 411 Briarwood Dr, Suite 404
City, State, Zip Jackson, MS 39206
Project EOI #1736
Project ID 3082013
Invoice Number 13080609

RECEIVED

AUG 12 2013

BUREAU OF LAND MANAGEMENT
SSFO

Personnel of the Habitat Section of the Coastal & Nongame Resources Division have reviewed the preliminary data for the captioned project. After careful review of our database, no impacts to rare, threatened, or endangered species or critical habitats are anticipated for the proposed project. No state or federal parks, wildlife refuges, scenic streams, or wildlife management areas are known at the specified site within Louisiana's boundaries.

The Louisiana Natural Heritage Program (LNHP) has compiled data on rare, endangered, or otherwise significant plant and animal species, plant communities, and other natural features throughout the state of Louisiana. Heritage reports summarize the existing information known at the time of the request regarding the location in question. The quantity and quality of data collected by the LNHP are dependent on the research and observations of many individuals. In most cases, this information is not the result of comprehensive or site-specific field surveys; many natural areas in Louisiana have not been surveyed. This report does not address the occurrence of wetlands at the site in question. Heritage reports should not be considered final statements on the biological elements or areas being considered, nor should they be substituted for on-site surveys required for environmental assessments. LNHP requires that this office be acknowledged in all reports as the source of all data provided here. If at any time Heritage tracked species are encountered within the project area, please contact the LNHP Data Manager at 225-765-2643. If you have any questions, or need additional information, please call 225-765-2357.

Sincerely,

Amity Bass
Per Amity Bass, Coordinator
Natural Heritage Program

**Informal Consultation Request
Biological Assessment**

Prepared by: Alison McCartney
Date: 8/4/13
Project: Proposed Federal Oil and Gas Lease
Expression of Interest #1736

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AUG 12 2013

BUREAU OF LAND MANAGEMENT
SSFO

Introduction

An Expression of Interest (EOI) was received by the Bureau of Land Management Southeastern States Field Office (BLM SSFO) on January 28, 2013 to request the opportunity to lease federal minerals which is located under privately owned surface. The 3 acre parcel is located in Sabine Parish in northwest Louisiana entirely within the West Gulf Coastal Plain Ecoregion within the Coastal Plain Province. This region is characterized by a southward facing plain of low, slightly hilly terrain that becomes a flat plain to the south and a broad marshy zone near the coast (USGS 1998).

The legal description for the nominated parcel is: T8N, R12W, Sec. 12, Lot 4. The parcel is located < 6 miles east/northeast of Zwolle and Highway 171. It is located < 1 mile north of Highway 120 and the east fork of Bayou Scie. The parcel consists of a young loblolly pine plantation. It is surrounded by pine plantations, recent clear cuts and oil and gas well sites.

Invasive/Exotic Species

There are a number of non-native species that are considered invasive in Louisiana and are monitored by the Louisiana State University (LSU) Ag Center. The following provides a list of some of the invasive species that can be found in Louisiana:

COMMON NAME	SCIENTIFIC NAME
Alligator weed	<i>Alternanthera philoxeroides</i>
Japanese climbing fern	<i>Lygodium japonicum</i>
Chinaberry	<i>Melia azedarach</i>
Johnson grass	<i>Sorghum halepense</i>
Brazilian verain	<i>Verbena brasiliensis</i>
Cogon grass	<i>Imperata cylindrica</i>
Chinese tallow tree	<i>Triadica sebifera</i>
Common salvinia	<i>Salvinia minima</i>
Hydrilla	<i>Hydrilla verticillata</i>
Mimosa	<i>Albizia julibrissin</i>
Water hyacinth	<i>Eichhornia crassipes</i>

This project has been reviewed for effects to Federal trust resources under our jurisdiction and currently protected by the Endangered Species Act of 1973 (Act). The project, as proposed, Will have no effect on those resources Is not likely to adversely affect those resources. This finding fulfills the requirements under Section 7(a)(2) of the Act.

Debra Fuller August 8 2013
 Acting Supervisor
 Louisiana Field Office
 U.S. Fish and Wildlife Service

Source: LSU, 2004; USDA 2007.

A site visit was conducted on July 18, 2013. No exotic species were observed.

Appendix D

Reasonably Foreseeable Development Scenario

REASONABLY FORESEEABLE DEVELOPMENT SCENARIO

Case File Number: EOI 1736

Project Number:

Acres: 2.86

Location: Louisiana Meridian, Sabine Parish, Louisiana, T8N, R12W, Sec. 12, Lot 4

I. Reasonably Foreseeable Development

A. RFD Baseline Scenario Assumptions and Discussion

Objective horizon is Haynesville Shale. Commodity in natural gas.

Federal acreage will be incorporated into a state determined drilling unit. Drilling and production units are 640 acres. Project 4 wells drilled from 1 pad.

A 30' wide well access road will be constructed consisting of a 16' wide travel surface with a 7' buffer on each side.

If productive, multiple wells may be drilled from the existing pad.

If productive, oil and gas handling and production facilities will be constructed on the existing pad.

If productive, the reserve pit and part of the drill pad will be reclaimed when drilling and completion activities are concluded.

All disturbed acreage will be reclaimed if the well is non-productive.

B. Surface Disturbance Due to Oil and Gas Activity

Access Road: 0.69 acres (1000'X30')

Well Pad & Pit: 5.74 acres (500'X500')

Utility and/or Pipeline R.O.W: 0 – Use access road ROW

Initial Disturbance: 6.43 acres

Partial Reclamation of Drill Site: 0.34 acres

Net Disturbance for Productive Wells: 6.09 acres

APPENDIX E

Public Notice

The Times

PROOF OF PUBLICATION

STATE OF LOUISIANA

PARISH OF CADDO

Before me, the undersigned authority, personally came and appeared

Connie Vinson-Carey, personally known to me
Who being duly sworn, deposes and says that she is the Assistant to the
Classified Advertising Manager of The Times, and that the attached
Advertisement published entitled:

LEGAL NOTICE THE SHREVEPORT TIMES

The Bureau of Land Management, Southeastern States Field Office
will prepare an environmental assessment document to consider
leasing federally owned mineral estate for oil and gas
exploration and development.

Notice published in the Times on June 9, 2013

June 10, 2013

(Signed) Connie Vinson-Carey

Sworn to and subscribed before me this 10th day of June, 2013.

Diana H. Barber

(Notary)

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JUN 13 2013

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LEGAL NOTICE THE SHREVEPORT TIMES

The Bureau of Land Management, Southeastern States Field Office will prepare an environmental assessment document to consider leasing federally owned mineral estate for oil and gas exploration and development.

The locations of the tracts are as follows:

LA, Avoyelles Parish, T2N, R3E, Sec. 28, S/2SW/4 (79.84 acres) (EOI #1724), LA, Avoyelles Parish, T1N, R4E, Sec. 12, NESE (37 acres) (EOI #1725), LA, Avoyelles Parish, T3N, R3E, Sec. 10, Lot 3 (0.96 acres), Sec. 14, Lot 3 (0.88 acres), Sec. 32, Lot 7 (7.08 acres), Sec. 62, All (fractional, north of the red river - 2.44 acres), Sec. 64, All (fractional 1.36 acres) (12.72 total acres) (EOI #1726), and LA, Sabine Parish, T8N, R12W, Sec. 12, Lot 4 (3 acres) (EOI #1736). All parcels are located in Louisiana Meridian, Louisiana.

The analysis will be prepared by an interdisciplinary team. An issue to be addressed by the team is to identify environmental impacts, and what restrictions may be necessary to avoid or mitigate identified impacts. The public is invited to participate by submitting comments on environmental issues with land use or by submitting other issues for consideration with the land use. Comments will be accepted through July 9, 2013. Send comments to Bureau of Land Management, Southeastern States Field Office, 411 Briarwood Drive, Suite 404, Jackson, MS 39206.

For further information contact Alison McCartney with the Southeastern States Field Office at (601) 977-5407.

Bruce E. Dawson
Field Manager

The Times
June 9, 2013

