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INTRODUCTION

Lignite-fueled power generation supplied by mine mouth operations has consistently been among the most cost-efficient and reliable sources of electricity in Louisiana for nearly thirty years.1 In 2009, the Louisiana Public Service Commission unanimously approved the acquisition by two utilities of an additional lignite surface mine located immediately adjacent to their lignite-fired power plant in Northwest Louisiana.2 After extensive review, the Commission found that the addition of the second surface mine to provide fuel for the Dolet Hills Power Station (DHPS) was "prudent, reasonable, continue[d] desired fuel diversity and result[ed] in the most economic fuel cost alternative for the DHPS and the lowest reasonable cost for Louisiana ratepayers."3 During the same time period, Northwest Louisiana was also beginning to experience a boom in natural gas drilling from a deep shale formation known as the Haynesville Shale.4 Since portions of the Haynesville Shale zone extended beneath the same location as two of the lignite surface mines, the stage was set for potential disputes between the oil and gas operators and the lignite miners; each would seek to develop their respective mineral interests in and beneath the same tracts of land.5

Lignite mining and reclamation operations occupy a larger portion of the surface within the mine permit boundary than oil and gas operations, and since the inception of lignite mining in

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1. A “mine mouth” operation for a coal fired power plant is where a power plant is located adjacent to a coal mine fuel source, so as to minimize the transportation of fuel costs.
3. Id.
Louisiana, potential conflicts between oil and gas operators and lignite miners could develop. However, Louisiana courts have not yet directly addressed the issue of oil and gas drilling within an active and permitted lignite surface mine. While the Louisiana Mineral Code requires each respective mineral owner to give “reasonable regard” to the other, there are unique issues within the context of lignite mining. Such issues include the need to avoid stranding lignite reserves and the limitations imposed by ongoing mining and reclamation activities.

However, technological advances in horizontal drilling that facilitated the Haynesville Shale boom, combined with innovative regulatory approaches, such as authorization of cross unit lateral wells and other techniques that allow flexibility in selection of surface locations, appear to offer a practical solution to these issues. If a proposed gas well drill site can be relocated into an area that (1) has already been mined and released from reclamation bond, or (2) into an adjacent area outside the mine permit where it does not risk either stranding future lignite reserves or interfering with ongoing mining operations, then both the lignite and gas can be produced for the benefit of mineral owners and ratepayers. Communication and coordination is essential to avoid conflict between the oil and gas operator and the lignite miner. The operator and the miner must work together to determine mutually agreeable well locations within, or adjacent to, the mine permit.

Adequate notice to mine operators and mining permittees—notice prior to the permitting of any well—is essential to facilitate this coordination. The Commissioner of Conservation has authority to regulate both oil and gas operations, as well as lignite mining. As a result, the Commissioner has previously issued unitization orders that require such notice prior to filing for a drilling permit for

7. LA. MIN. CODE art. 11(A) (2013) (“The owner of land burdened by a mineral right or rights and the owner of a mineral right must exercise their respective rights with reasonable regard for those of the other. Similarly the owners of separate mineral rights in the same land must exercise their respective rights with reasonable regard for the right of other owners.”).
units within the mine permit. Expanding these drilling permit notice requirements to encompass the entire boundary of lignite mine permits would be an important step toward avoiding conflicts between mineral owners. Expanded notice requirements allow utility ratepayers to benefit from a diversified fuel mix, while also allowing for oil, gas, and lignite mining.

I. BACKGROUND: HISTORY OF LIGNITE MINING IN LOUISIANA

Lignite is a soft, brownish-black coal that can be used as an energy source. Lignite typically must have a heating value range of 6,300 to 8,300 British thermal units per pound to be rated as class “A.” Economically recoverable lignite in Louisiana is relatively shallow, at depths of 200 feet or less from the surface. Lignite deposits of commercial importance were first found in northwestern Louisiana in 1812, almost a century before petroleum development began in the state. Interest in mining lignite as a potential source of fuel for electricity generation began in the 1950s and early 1960s when utilities began exploratory drilling to assess potential lignite reserves in both DeSoto and Red River Parishes.

In the 1970s, there was an increased interest in surface mining for lignite as a fuel for electricity generation as a national need for new energy sources necessitated the development of lignite deposits in several states, including Louisiana and Texas. In 1976, the Louisiana Legislature passed the Louisiana Surface Mining and Conservation Act, which established a regulatory framework for the development of lignite deposits in the state. Since then, the regulation of lignite mining in Louisiana has been evolving, with changes in mining methods and environmental regulations.


13. See infra Part II for further discussion of fuel diversity.


15. Id.

16. Id. at 2.

17. Id.

18. Id.


Reclamation Act,\(^2^1\) finding that “[t]he extraction of lignite and other forms of coal by surface mining operations is a basic and essential activity making an important contribution to the economic wellbeing of the state and nation.”\(^2^2\) The following year, Congress enacted the Surface Mining Control and Reclamation Act of 1977,\(^2^3\) providing for the establishment of a nationwide program to regulate surface coal mining and reclamation. The Act vests authority to regulate surface coal mining and reclamation with the federal government but allows delegation of jurisdiction over surface coal mining regulation to the states, subject to federal approval of each state’s program.\(^2^4\)

As development of economically recoverable lignite mining projects began in several states across the country in the late 1970s and early 1980s,\(^2^5\) two Louisiana public utility companies agreed to pool their lignite resources to provide fuel to a jointly-owned lignite fired generating plant at Dolet Hills.\(^2^6\) In 1982, construction began on the Dolet Hills Power Station,\(^2^7\) a 650 megawatt lignite-fired generating plant fueled with Louisiana lignite primarily mined from the adjacent Dolet Hills Lignite Mine, a 30,000 acre site located in DeSoto Parish, Louisiana.\(^2^8\) In 1983, pursuant to authority delegated under the Louisiana Surface Mining and Reclamation Act,\(^2^9\) the Louisiana Office of Conservation approved the utility company permittee’s application for the Dolet Hills Lignite Mine.\(^3^0\) The Office’s order approving the application, as well as subsequent orders from the Office of Conservation,\(^3^1\) set forth specific


\(^{22}\) LA. REV. STAT. ANN. § 30:902(A) (2007).


\(^{25}\) Higher energy prices starting in the mid 1970’s, particularly higher oil prices in the aftermath of the 1973 foreign oil crisis, spurred interest in additional domestic energy resources, including coal and lignite for electricity generation, See Andrew Scott Hanen, Comment, The Surface Mineral Producer v. the Oil and Gas Producer: A Need for Peaceful Coexistence, 29 BAYLOR L. REV. 907, 907 (1977); Bruce Kramer, Conflicts Between the Exploitation of Lignite and Oil and Gas: The Case for Reciprocal Accommodation, 21 HOUS. L. REV. 49 (1984).

\(^{26}\) Troy et al., supra note 21; see also Continental Grp., Inc. v. Allison, 379 So. 2d 1117, 1126–27 (La. Ct. App. 1979), rev’d on other grounds, 404 So. 2d 428 (La. 1981).

\(^{27}\) Id.

\(^{28}\) Troy et al., supra note 21.


provisions for the regulation of surface mining and reclamation operations.\textsuperscript{32} These provisions included mining plans, plans for access roads, a groundwater and surface water monitoring program, soil monitoring, re-vegetation requirements, and posting of reclamation performance bonds.\textsuperscript{33}

The first commercial surface mining of lignite in Louisiana began in 1985 at the Dolet Hills Lignite Mine (LSM-3).\textsuperscript{34} The Dolet Hills Power Station commenced operation in 1985.\textsuperscript{35} Also, during the early 1980s, the Oxbow Lignite Mine (LSM-1), located in Red River, DeSoto, and a portion of Natchitoches Parishes were initially approved by the Louisiana Office of Conservation.\textsuperscript{36} The Oxbow Lignite Mine (LSM-1) was originally permitted to Phillips Coal Company to supply a proposed lignite fueled power plant built by Cajun Electric Power Cooperative Inc. near Coushatta, Louisiana; however, difficulties in financing resulted in the cancellation of the plant.\textsuperscript{37} In 1989, the Office of Conservation approved the transfer of the Oxbow Mine Permit (LSM-1-A) to Red River Mining Company,\textsuperscript{38} and the Oxbow Mine began mining and delivering lignite to the nearby Dolet Hills Power Station pursuant to a contract with the utilities.\textsuperscript{39} The Oxbow Mine Permit (LSM-1-A) and lignite reserves were later acquired in 2009 by the utilities to further expand the available lignite fuel supply for the Dolet Hills Power Station after approval by both the Louisiana Public Service Commission\textsuperscript{40} and the Louisiana Office of Conservation.\textsuperscript{41}

\textsuperscript{32} See State of Louisiana Office of Conservation Order No. LSM-3 (effective June 9, 1983).
\textsuperscript{33} Id.
\textsuperscript{34} Id.
\textsuperscript{35} Troy et al., supra note 21.
\textsuperscript{37} See Sw. Eng’g Co. v. Cajun Elec. Power Coop., Inc., 915 F.2d 972 (5th Cir. 1990) (discussing contractual disputes resulting from the cancellation of the Big Cajun Oxbow lignite power plant project).
\textsuperscript{39} Troy et al., supra note 21.
II. THE UTILITY OF LIGNITE FIRED GENERATION AND FUEL DIVERSITY

Louisiana public utility companies that own and operate lignite-fueled power generation are subject to the jurisdiction of the Louisiana Public Service Commission, pursuant to Article IV, Sec. 21 of the Louisiana Constitution, Louisiana Revised Statutes section 45:1163(A)(1), and Louisiana Revised Statutes section 45:1176. In light of the Commission’s authority to regulate utility rates and its review and evaluation of the reasonableness and prudence of public utility companies’ decisions, it is notable that lignite-fueled power generation supplied by local Louisiana mining has consistently been among the most cost efficient and reliable sources of electricity in Louisiana for nearly thirty years.

During the 1980s, the Louisiana Public Service Commission used lignite-fired power plants as a benchmark for comparison to other generation alternatives available at the time. In refuting the assertion that “the nuclear option was the only reasonable alternative in light of fuel constraints, to provide diversity and reliability to its system,” the Commission noted that the claim was effectively rebutted because “witnesses testified that lignite would provide diversity. [Lignite was] actually favored under the federal law restricting the use of natural gas in electric generating plants.” The Commission further noted the benefits of local lignite-fired generation by comparison, finding that, “since the source of lignite

42. L A. CONST. art. IV, § 21(B) (“The commission shall regulate all common carriers and public utilities and have such other regulatory authority as provided by law. It shall adopt and enforce reasonable rules, regulations, and procedures necessary for the discharge of its duties, and shall have other powers and perform other duties as provided by law.”).
43. LA. REV. STAT. ANN. § 45:1163(A)(1) (2010) (“The commission shall exercise all necessary power and authority over any street railway, gas, electric light, heat, power, waterworks, or other local public utility for the purpose of fixing and regulating the rates charged or to be charged by and services furnished by such public utilities.”); LA. REV. STAT. ANN. § 45:1176 (2010).
44. LA. REV. STAT. ANN. § 45:1176 (2010).
45. LA. REV. STAT. ANN. § 45:1163; id.
46. See Cleco Power, L.L.C., Order No. U-30975 (La. Pub. Serv. Comm’n Sept. 30, 2009), at 4 (noting in pertinent part: “DHPS has been such an economical power source for the Companies’ ratepayers—the incremental cost of electricity being produced out of the Dolet Hill mines has been and remains at or below 2¢/KWH.” The expert testimony presented to the Public Service Commission in the proceeding further describes the data supporting the findings regarding reliability and reasonableness of prices.).
48. Id.
fuel would be located in or near the Gulf States service territory, on property owned or leased by the company, [the lignite option] would subject the Company to fewer risks associated with transportation difficulties and changes in regulatory requirements." 49 In disallowing the recovery of certain costs related to nuclear power plant construction, the Commission’s consultants “determined that a more reasonable option would have been the construction of a lignite unit.” 50

More recently, in 2009, the Commission unanimously approved the acquisition of the Oxbow Lignite Mine Permit and Reserves by two utilities. 51 After an extensive review, the Commission found that the acquisition was “prudent, reasonable, continue[d] desired fuel diversity and results in the most economic fuel cost alternative . . . and lowest reasonable cost for Louisiana ratepayers.” 52 In a separate analysis of the rate stabilizing benefits of fuel diversity, the Commission noted that the utility’s “reliance on coal and lignite has provided its customers with these extremely stable and low cost energy prices.” 53 The Commission’s analysis also confirmed that the utility’s “diversified fuel mix, and particularly its solid fuel baseload units, have contributed to achieving and maintaining lower generation cost”; this lower generation cost was achieved because the utility “[was] less vulnerable to the significant price volatility of natural gas. There is merit in having a diversified fuel mix. Historically gas performance has been more erratic than coal. Fuel mix is an important attribute that should be taken into account in an overall strategic plan.” 54 Thus, natural gas, coal, lignite, and more recently, renewables such as wind, 56 can provide a beneficial fuel mix.

49. Id. at 10.
50. Id. at 4.
54. Id. at 21, 29 (internal citations omitted).
55. Id. at 20–21 (internal citations omitted).
56. Sw. Elec. Power Co., Order No. U-32095 (La. Pub. Serv. Comm’n Dec. 22, 2011), at 2. The Commission unanimously approved an initial 31MW of Wind Energy contracts pursuant to the Public Service Commission’s Renewable Energy Pilot Program. The Renewable Energy Pilot Program was established by General Order R-28271–Subdocket B, dated December 9, 2010, which attached Implementation Plan states in pertinent part: “The Commission has stated a desire to meet a set of policy objectives for renewable resources that include providing additional resources that result in a reliable and economical long-term electric supply; diversifying Louisiana’s fuel mix, creating greater energy security through the use of indigenous resources; encouraging private investment; improving air
Fuel diversity also provides resource flexibility that can be essential to maintaining electrical reliability in an uncertain regulatory environment.\textsuperscript{57} The Director of the Electric Reliability Coordinating Counsel (ERCC) noted in comments submitted to the Environmental Protection Agency last year that, “[g]iven the regulatory uncertainty related to future EPA regulations on a wide variety of energy sources—and not just coal—keeping all options on the table for energy generation . . . is essential to maintaining America’s energy supply.”\textsuperscript{58} Highlighting the reliability risks from a loss of fuel diversity, particularly solid fueled generation, the Director of the ERCC further advised:

[T]he country may experience a shortage of electricity, and the reliability of our electricity grid will face substantial risks. The loss of future coal-fired generation, investment in current coal-fired generation, and closures of existing coal-fired generation capacity that may result from the combination of the proposed rule and other EPA regulatory actions risks a variety of reliability problems. In most cases, coal-fired plants cannot be replaced overnight by natural gas plants, as the time it takes to install pipeline and other infrastructure necessary even to begin conversion of an old plant or construction of a new one is considerable.\textsuperscript{59}

Despite last year’s D.C. Circuit Court of Appeals ruling vacating the proposed Cross-State Air Pollution Rule as exceeding the EPA’s statutory authority,\textsuperscript{60} there continues to be regulatory uncertainty

quality; developing additional in-state renewable resources; and encouraging job creation and job retention, while avoiding the uncertainty associated with the cost impacts of a long term policy decision in an uncertain economic and political climate.”


\textsuperscript{58} Id.

\textsuperscript{59} Id.

\textsuperscript{60} In \textit{EME Homer City Generation, L.P. v. EPA}, the District of Columbia Circuit Court noted that the Cross State Air Pollution Rule (CSAPR) “limits emissions from upwind States’ coal- and natural gas-fired power plants, among other sources. Those power plants generate the majority of electricity used in the United States . . . .” 696 F.3d 7, 11 (D.C. Cir. 2012), \textit{cert. granted}, Am. Lung Ass’n v. EME Homer City Generation, L.P. 133 S. Ct. 2857 (2013). The District of Columbia Circuit Court concluded that, “[a]lthough a claim of constitutional authority (and there is none here), executive agencies may exercise only the authority conferred by statute, and agencies may not transgress statutory limits on that authority.” Id.
regarding not only other new EPA regulations, but also the Cross-State Air Pollution Rule, as the U.S. Supreme Court recently granted certiorari to review the D.C. Circuit Court’s decision.\textsuperscript{61}

Moreover, even in light of current low natural gas prices, the need for fuel diversity is based on a long-term approach, rather than a short-term rush to utilize whatever energy source is trendy today.\textsuperscript{62} As the Director of the ERCC noted last summer,

\textit{[N]otwithstanding the historically low cost of natural gas and newly adopted regulatory obstacles for coal, several power producers in the U.S. are seeking to develop new state-of-the-art coal-fired power plants for a variety of reasons. Some of them are concerned about the historic volatility in natural gas prices and their inability to obtain long-term contracts with stable pricing for natural gas, preferring the long-term price stability that comes with coal. Some of them are developing new plants in areas that have localized, economical supplies of coal or other solid fuel. Others simply do not want to put all their eggs in one basket and want to maintain fuel diversity in their generation mix.}\textsuperscript{63}

Further, natural gas is not without risk considering the opposition to fracking.\textsuperscript{64}

Significantly, when evaluating pricing stability and long-term fuel costs of coal, the Commission’s consultants concluded:

\textit{[G]as is about 21 times more volatile in price than is coal. ICF International recommended a mixture of gas and coal capacity, so as to hedge against pricing differentials and market changes[.] The cost of coal is more stable that the cost of natural gas[.] The long-term costs, and particularly the risks, are greater if gas-fired facilities are selected to the exclusion of coal.}\textsuperscript{65}

\begin{flushleft}
\textsuperscript{62.} Segal, supra note 57.
\textsuperscript{63.} Id.
\end{flushleft}
Reducing price volatility through fuel diversity and maintaining reasonably priced electricity also helps support economic growth and boost investor confidence in energy intensive industries. In addition to the advantages offered by fuel diversity, the beneficial economic impact of mining lignite in Louisiana was reviewed in 2009 by Dr. Loren C. Scott in connection with the acquisition of the Oxbow Lignite Mine (LSM-1-A). Dr. Scott’s economic impact study concluded that extending the life of the lignite mine for ten years had both direct and secondary effects that spread to other sectors of the state economy. Such effects include boosting sales in Louisiana firms by $3.4 billion, increasing direct and indirect household earnings in Louisiana by over $1 billion, and supporting an average of 2,472 jobs a year throughout the state. Dr. Scott also estimated that the State of Louisiana would collect $113.7 million in both direct and indirect taxes, and $81.3 million in local and parish taxes as a result of the Oxbow Mine acquisition. Notwithstanding the direct and indirect economic benefits of local lignite mining, from a regulatory perspective, the empirical pricing stability of solid fuel and the improved reliability offered by a mine mouth operation both support the reasonableness of regulatory decision to promote fuel diversity by maintaining lignite fired generation.

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66. See Bernard L. Weinstein, SMU Cox Maguire Energy Institute, Proposed EPA Power-Sector Air Rules: Weakening Economic Recovery and Putting America’s Most Competitive Manufacturing Industries at Risk 6–7 (September 2011), http://pressdocs.cox.smu.edu/maguire/SMU_Utility_MACT_Report.pdf (“The manufacturing sector is acutely sensitive to change in energy cost. . . . Beyond input and distribution costs, an escalating price for energy also creates a drag on investment confidence in the manufacturing sector. Observing that manufacturers ‘use large amounts of electricity made from fossil fuels, especially coal,’ Professor Hayden Murray of Indiana University found that, ‘One of the most significant reasons for lack of investor confidence in the economy is the enormous cost of environmental regulation.’ Sensitivity to energy costs can directly result in displacement of manufacturing jobs.”).


68. Id. at 17-18

69. Id.

70. Id.

III. DISTINGUISHING BETWEEN LIGNITE SURFACE MINING OPERATIONS, RECLAMATION REQUIREMENTS AND PERFORMANCE BONDS, AND AVOIDING THE RISKS OF STRANDED LIGNITE

Jurisprudence from Louisiana courts specifically addressing lignite mining and reclamation operations remains fairly limited. However, Louisiana courts have recognized the considerable differences between surface mining operations to produce lignite and traditional oil and gas drilling operations.72 In River Rouge Minerals, Inc. v. Energy Resources of Minnesota, the Louisiana Second Circuit held that the right to surface mine lignite was not included in the form of a standard oil and gas lease.73 The court found “[t]he essential distinction between solid coal, liquid oil, and natural gas is in the method of extraction from the ground.”74 The River Rouge court also noted that “lignite coal cannot be produced by the methods used in the production of oil and gas.”75 The Louisiana Second Circuit further elaborated on the process of surface mining and restoration in Continental Group Inc. v. Allison.76

The process of lignite mining was best described in a 1999 U.S. Western District of Louisiana opinion by Judge Stagg, as follows:

The Dolet Hills Mining Venture recovers lignite by surface mining using a giant dragline to remove 20 to 140 feet of dirt and expose the lignite below. The dragline is as tall as a 20–story building. It weighs 8 million pounds and has a 77 cubic yard bucket. The bucket holds enough dirt to fill a one-car garage. Seams of lignite are uncovered by the dragline around the clock. Once exposed, the lignite, in layers 6–10 feet thick, is removed with a large backhoe and loaded into trucks. Each truck is capable of carrying 85 tons of lignite. After the lignite is removed, the dragline fills the pit with dirt from the next pit that is being excavated, helping to return the area to its

72. See River Rouge Minerals, Inc. v. Energy Res. of Minn., 331 So. 2d 878 (La. Ct. App. 1976) (discussing the differences between the nature of coal and lignite mining compared to traditional oil and gas drilling operations as they relate to rights provided in an oil, gas and mineral lease).
73. Id. at 879.
74. Id.
75. Id.
original contour. Trucks filled with lignite haul to a central collection site, and they dump their loads at the beginning of a seven-mile conveyor belt for transportation to the power plant. The conveyor belt travels 800 feet per minute and delivers 1000 tons of lignite to the plant every hour. The Louisiana fuel source provides the energy of 6 million barrels of crude oil each year. 77

Given the necessary surface use in connection with lignite mining operations and the difficulty in conducting oil and gas operations on or near the properties, coordination and communication are necessary so that each mineral producer exercises their respective rights “with reasonable regard” for others. 78 Even after mining is completed, reclamation and restoration activities continue for many years and must meet extensive environmental protection standards established by the Louisiana Surface Mining and Reclamation Act 79 and the applicable Surface Mining regulations. 80 Additionally, these post-mining reclamation and restoration operations are subject to extensive regulation by the Louisiana Commissioner of Conservation pursuant to authority delegated by the Louisiana Surface Mining and Reclamation Act 81 including the requirement to post a performance bond “sufficient to assure the completion of the reclamation plan.” 82

Until reclamation operations are complete and the bond is released pursuant to the particular requirements set forth in the Louisiana Surface Mining and Reclamation Act 83 and the respective Mine Permits, access to tracts within the mine permit is very limited. 84 If the Commissioner was to issue gas drilling permits for a well on property within the mine permit subject to performance bonds before releasing the bond, there is the possibility of

78. See LA. MIN. CODE art. 11(A) (2013).
81. Id.
82. LA. REV. STAT. ANN. § 30:909 (2007) (establishing the requirement for performance bonds to be posted).
84. There are extensive mine safety requirements established under the Federal Mine Safety and Health Act, 30 U.S.C. § 801 et. seq. The area within a coal mine subject to regulation includes access roads, 30 U.S.C § 802(h).
conflicting orders. The requirements for bond release include the completion of backfilling, re-grading, and drainage control in connection with the reclamation plan, as well as successful re-vegetation. Additionally, the process of bond release takes time and is subject to specific public notice requirements, including that notice of the area to be released from bond be published in the local newspaper for four consecutive weeks and that there be a thirty-day period during which the government or affected landowners may request a public hearing. After the inspection of the property to be released, the Commissioner has thirty to sixty days to decide whether to release the proposed area from bond, depending upon whether a hearing was requested and the findings of the investigation.

In addition to the above requirements, it is also necessary to avoid stranding lignite reserves. While the lignite mining less than 150 feet from the surface does not preclude recovery of oil and gas located thousands of feet below the surface (particularly when horizontal drilling and modern recovery techniques are used), the same is not true with lignite mining below 150 feet. Mining plans are issued years in advance, and pre-mining activities are required before mining may begin. If a transmission line, pipeline, road, or...
well site obstructs mining, lignite can become “stranded” or “sterilized,” especially if the obstruction cannot be moved or relocated. In one Texas proceeding regarding relocation of a transmission line through the San Miguel Lignite Mine, the mining expert testified that “it would not be economical for the mining operation to return to the area already mined to recover the stranded lignite.” Also, Texas has considered the risk of stranded lignite that could not be mined (for example, due to the location of a right of way) and has evaluated potential compensation to the mineral owner for the value of stranded lignite. 

The possibility that millions of tons of lignite could become permanently stranded by even a short easement crossing into an unmined area is particularly significant, especially considering that the Dolet Hills Power Station needs approximately 3.5 million to 4 million tons of lignite per year. Even when lignite mines were first permitted in Louisiana, it was understood that lignite mining could not be economically completed on a piecemeal basis. Similarly, the Louisiana Commissioner of Conservation may consider the following risk: significant lignite reserves could become “stranded”—that is, obstructions within a lignite seam (such placement of drilling pad sites, access roads, or pipelines) might make it impossible to mine the lignite. This outcome would have to be avoided. In light of the considerable costs to mineral owners and ratepayers resulting from permanently stranded lignite, it is

from the single plant near the field built to utilize that particular sort of lignite; and a number of producers of oil or gas may operate in a single reservoir or field or even have separate rights as to different strata underlying the same tract of land—lignite development in one field by more than one producer is not very feasible.”).


93. Id. (considering, in part, whether there should be a cost offset for the valuation of the lignite stranded by an existing transmission line under a particular route).

94. Id.

95. Id. at 27–28.


97. See Martin, Continuous Revision Committee for the Mineral Code, La. State Law Institute, Proposed Amendments Relating to Lignite Development 1 (1981) (“[L]ignite cannot be mined in piecemeal fashion—it must be developed sequentially or it may not be economical to mine it at all.”).

certainly reasonable for the respective oil and gas operators and lignite miners to communicate and coordinate on proposed locations to minimize the risk of stranded lignite reserves. When considering the importance of lignite to overall fuel diversity and energy pricing stability, the need to avoid stranding lignite reserves is even more apparent.

IV. THE NEED FOR ADEQUATE NOTICE, COORDINATION AND THE POTENTIAL FOR HORIZONTAL DRILLING TO FACILITATE REASONABLE ACCOMMODATIONS

In light of the Mineral Code requirement that mineral owners give “reasonable regard” to each other, there appears to be reasonable accommodations that can be made so that oil and gas operators may drill in certain areas within a lignite mine with adequate notice and coordination. Reasonable accommodations, including the coordination of proposed drilling locations, access roads, pipelines, and other facilities, can help avoid the risk of stranding lignite reserves in un-mined areas. Similar coordination can help oil and gas operators understand the unique limitations imposed by the mining reclamation and bonding requirements, so that drilling locations can be selected in either previously mined areas where bond has been released or in areas outside the mine permit which would not be mined. Moreover, the respective mineral owners can also enter into cooperative development agreements for their operations.

One key to facilitating this coordination is adequate prior notice to the mine operator and permittees before any well permitting within an existing lignite mine permit. However, under current notice requirements, only the known owners within or adjacent to a given unit would be provided notice of the formation of a new drilling unit. In the event an oil and gas title search misses or

100. La. Min. Code art. 11(A) (2013) (“The owner of land burdened by a mineral right or rights and the owner of a mineral right must exercise their respective rights with reasonable regard for those of the other. Similarly the owners of separate mineral rights in the same land must exercise their respective rights with reasonable regard for the right of other owners.”).
102. Id.
103. Id.
104. La. Rev. Stat. Ann. § 30:6(B) (2007) does not discuss which parties are entitled to specific notice requirements, rather the parties entitled to notice for respective applications are set forth by regulations promulgated pursuant to Louisiana Office of Conservation Statewide Order No. 29-B, 43: Part XIX § 3903 and 3905. See also, LR 19:759 (June 1993), adopted by the Department of Natural
excludes any coal or lignite leases that are maintained pursuant to Louisiana Mineral Code article 115(C), the lignite lease owner could potentially be denied the required notice to their substantial prejudice as a party who is adversely affected by the formation of a drilling unit. Moreover, after the unitization notices have been issued, subsequent Applications to Drill do not have nearly the same notice requirements. This makes improved notice requirements for the lignite mine operator and permittees even more necessary. While certain oil and gas operators or applicants may make an effort to go beyond the minimum notice requirements, strengthening these requirements so that the lignite mine operator and permittees are always notified at least thirty days in advance of any application to drill anywhere within the mine permit boundary would only improve the chances that mineral owners can make reasonable accommodations to respect each other’s correlative rights.

The Commissioner of Conservation has broad authority to regulate both oil and gas operations, as well as lignite mining in Louisiana. The Commissioner has been responsive and innovative in addressing the recent issues with gas drilling units located within lignite mine permits and has issued unitization orders requiring notice prior to filing for a drilling permit for particular units within the mine permit. Unfortunately, while many units within the mines include similar notice requirements, not all units mandate such requirements. Also, there is a lack of uniformity in notice requirements that could lead to potential conflict between different mineral owners. While certain oil and gas operators may enter

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105. LA. MIN. CODE art. 115(C) (2000).
110. The notice requirements discussed in supra at 109 cover some but not all of the sections that are located within the boundaries of the Oxbow (LSM-1-A) and Dolet Hills (LSM-3) Lignite Mine Permits.
into cooperative development agreements with the mine to provide for similar provisions that assist surface location selection, an operator without such an agreement or notice would be at risk. Expanding these drilling permit notice requirements to uniformly encompass the entire boundary of the lignite mine permits is an important step towards avoiding future conflicts between respective mineral owners.

Ironically, it is the same technological advances that facilitated the Haynesville Shale boom that also appear to offer a practical solution to these conflicts between mineral owners. When combined with innovative regulatory approaches like authorization of cross-unit lateral wells that allow selection of drilling sites in off-unit, adjacent surface locations when necessary, horizontal drilling presents a pragmatic solution. The regulatory means to enable reasonable accommodation, including adequate notice to facilitate coordination between the respective mineral owners, are established and available. If a proposed gas well drill site can be relocated into a previously mined area that has been released from reclamation bond, or into an adjacent area outside the mine permit where there is no risk of stranding future lignite reserves or interfering with mining, both lignite and gas can be produced for the benefit of both mineral owners and utility ratepayers. Communication and coordination between the oil and gas operator and the lignite miner over mutually agreeable well locations is essential for avoiding conflict between respective mineral owners.

While notice alone cannot resolve all conflicts between mineral owners, it can be the first step towards achieving reasonable accommodation. Uniformity of notice is desirable. Adequate notice may raise awareness of the issues and promote cooperation between drillers and miners regarding well location selection within a lignite mine permit. Such cooperation can help prevent stranding lignite reserves as well as promote compliance with applicable environmental reclamation requirements. Coordination between oil and gas operators and miners allows respective mineral owners and ratepayers, as well as the State of Louisiana, to continue to benefit from gas production as well as lignite mining. By promoting both lignite mining and gas development through reasonable accommodations, Louisiana’s dual goals of localized fuel diversity and access to reasonably priced, reliable energy may be achieved.

112. See Memorandum, supra note 9.
114. See Orders, supra note 109.