

United States Department of the Interior  
Bureau of Land Management  
Northeastern States District Office  
LLESM03200

---

## Categorical Exclusion/Decision Record

NEPA #: DOI-BLM-ES-0030-2015-0010-CX

### Renewal of 36 Preference Right Leases for Doe Run Company

---

**Date:** December 2015

**Type of Action:** Hardrock

**Lease Numbers:** MOES-31337, MOBLMA-046974, MOBLMA-046975, MOBLMA-050698, MOBLMA-050847, MOBLMA-050303, MOBLMA-050304, MOBLMA-073742, MOBLMA-073749, MOBLMA-040200, MOBLMA-039780, MOBLMA-047498, MOBLMA-055202, MOBLMA-063985, MOBLMA-057694, MOBLMA-047477, MOBLMA-049307, MOBLMA-075369, MOBLMA-077396, MOBLMA-045266, MOBLMA-079670, MOBLMA-044857, MOBLMA-040279, MOBLMA-042483, MOBLMA-042870, MOBLMA-046798, MOBLMA-048106, MOBLMA-052782, MOBLMA-063466, MOBLMA-041128, MOES-4443, MOBLMA-11508, MOBLMA-079252, MOES-2597, MOBLMA-028351, and MOBLMA-043228.

**Location:** Salem/Potosi and Fredericktown Ranger Districts, Mark Twain National Forest, Crawford, Dent, Iron, Madison, Reynolds, Shannon and Washington Counties, Missouri (see Appendix A for legal descriptions for each lease)

**Project Acreage:** 33,622.79 acres, more or less

**Proponent Address:** Doe Run Company  
Suite 300  
1801 Park 270 Drive  
St. Louis, MO 63146

---

Bureau of Land Management  
Northeastern States District  
626 E. Wisconsin Ave., Suite 200  
Milwaukee, WI 53202  
414-297-4400 (phone)  
414-297-4409 (fax)



## MISSION STATEMENT

It is the mission of the Bureau of Land Management to sustain the health, diversity, and productivity of the public lands for the use and enjoyment of present and future generations.

# NEPA Categorical Exclusion Documentation

**BLM Office:** Eastern States – Northeastern States District

**Lease Nos.:** MOES 31337, MOBLMA 046974, MOBLMA 046975, MOBLMA 050698, MOBLMA 050847, MOBLMA 050303, MOBLMA 050304, MOBLMA 073742, MOBLMA 073749, MOBLMA 040200, MOBLMA 039780, MOBLMA 047498, MOBLMA 055202, MOBLMA 063985, MOBLMA 057694, MOBLMA 047477, MOBLMA 049307, MOBLMA 075369, MOBLMA 077396, MOBLMA 045266, MOBLMA 079670, MOBLMA 044857, MOBLMA 040279, MOBLMA 042483, MOBLMA 042870, MOBLMA 046798, MOBLMA 048106, MOBLMA 052782, MOBLMA 063466, MOBLMA 041128, MOES 4443, MOBLMA 11508, MOBLMA 079252, MOES 2597, MOBLMA 028351, and MOBLMA 043228.

**NEPA #:** DOI-BLM-ES-0030-2015-0010-CX

**Proposed Action Title/Type:** Lease Renewals/Hardrock

**Location of Proposed Action:** See Appendices A and B for location map and legal land descriptions for each lease number

**Applicant:** The Doe Run Company

## **A. Description of Proposed Action:**

The Doe Run Company submitted a timely application pursuant to 43 Code of Federal Regulations (CFR) 3511.27 requesting renewal for an additional ten-year period of thirty-six (36) hardrock preference right mineral leases located on the Mark Twain National Forest (MTNF) for continued mining operations that were set to expire January 31, 2015. The BLM received the application letter via certified mail on October 8, 2014, more than 90 days in advance of the leases' expiration date. The lease renewals total approximately 33,623 acres (Appendices A and B).

The leases requested to be renewed as listed above have been reviewed by both the U.S. Forest Service (FS) and the Bureau of Land Management (BLM) Eastern States (ES) Northeastern States District (NSD) and updated lease stipulations have been provided by FS Region 9 and attached in Appendix C.

Purpose: The purpose of the lease renewal process is to provide BLM the opportunity to review leases that have eclipsed their primary or subsequent renewal term of ten (10) years and that may be held by ongoing production or logical mining unit. The Proposed Action is administrative in nature and is primarily an opportunity to determine if there are any resource-based or environmental issues that need to be addressed through adding or modifying stipulations to the preference right leases. The BLM NSD sent a request to the FS on April 15, 2015 to review and update any lease stipulations. The FS reviewed available

data, including wildlife, and in a letter to the BLM NSD dated November 13, 2015 (Appendix C) had no objection to renewing the leases provided that current lease stipulations are made part of each lease. However for these hard rock leases there are no issues which need to be addressed because the leases are located within existing mine permit boundaries and on lands that have already been disturbed. Therefore, resource issues were thoroughly addressed at the mine permitting stage, during review of the mine plan of operations, and through previous leasing stage analysis.

The lessee has not violated the terms or conditions of the original lease and subsequent renewals. The renewal request was submitted within the timeframe outlined in 43 CFR 3511.25. The readjustment of the terms and conditions of the leases is the only discretionary decision before the BLM, and therefore the sole action analyzed in this CX.

Background: Lead was discovered in southeastern Missouri around 1700 with full-scale mining beginning around 1720. Major production of lead in the area began in 1864 with St. Joseph Lead Company in the Bonneterre Formation as part of the Old Lead Belt. In 1943, it became apparent that these reserves were approaching depletion and extensive exploration began for new deposits. In 1955, a mineable deposit was discovered 30 miles to the west of the existing operations (Old Lead Belt) in an area under the MTNF. This new trend is known as the Viburnum Trend and is considered the largest domestic lead reserve. The Viburnum Trend, also known as the New Lead Belt, is a zone of mineralization which stretches south from the town of Viburnum, Missouri for over 30 miles. Missouri is the number one producer of domestic newly-mined lead, and produces substantial quantities of zinc, copper, silver, cadmium, and cobalt, from nine mines in this mining district (Seeger, 2009). About half of this metal is mined from Federal leases issued by the BLM; the other half is mined under leases issued by the State of Missouri. St. Joseph developed the first mine along the trend which went into production in 1960. Other operators created additional mines along the trend. In the early 1980s, Doe Run was assigned the Preference Right Leases and has continued and expanded operations under the MTNF since then.

## **B. Land Use Plan Conformance**

Land Use Plan Name(s): Mark Twain National Forest Land and Resource Management Plan (LRMP), 2005.

This plan has been reviewed and the proposed action, as mitigated, conforms to the land use plan's terms and conditions as required by 43 CFR 1610.5. The BLM was a cooperating agency in the development of the MTNF 2005 LRMP and associated Environmental Impact Statement (EIS); this Categorical Exclusion document tiers to the MTNF 2005 LRMP EIS.

## **C. Compliance with NEPA**

The Proposed Action is categorically excluded from further documentation under the National Environmental Policy Act (NEPA) in accordance with 516 Departmental Manual (DM) 11.9(F)(2):

- Approval of mineral lease readjustments, renewals, and transfers including assignments and subleases.

A categorical exclusion is appropriate in this situation as review of the lease renewals indicates no extraordinary circumstances, as described in 43 CFR 46.215, potentially having effects that may significantly affect the human environment.

#### **D. Departmental Exceptions and Critical Resource Values Checklist**

The proposed action generally does not require the preparation of an Environmental Assessment (EA) or Environmental Impact Statement (EIS) as there are no extraordinary circumstances potentially having effects that may significantly affect the human environment. Therefore, a categorical exclusion is appropriate in this situation.

The proposed action has been reviewed to determine if any exceptions apply in accordance with DM 516 and 43 CFR 46.15, and no exceptions were identified:

**1) *Would the proposed action have significant impacts on public health or safety?***

Renewal of the existing mineral leases under current regulations will have no new impact on public health or safety because no new construction or changes to the existing surface operations are proposed. There will be no change in recreational uses of the land by the public. A number of mitigation measures are in place to prevent contamination and minimize the impacts of mining along with test sites to determine the success of the mitigation measures.

**2) *Would the proposed action have significant impacts on such natural resources and unique geographic characteristics as historic or cultural resources; park, recreation or refuge lands; wilderness areas; wild or scenic rivers; national natural landmarks; sole or principal drinking water aquifers; prime farmlands; wetlands (Executive Order 11990); floodplains (Executive Order 11988); migratory birds; and other ecologically significant or critical areas?***

Renewal of the existing mineral leases would not involve any new ground disturbance, operations plans or changes to the environment that would have any new/changed impact on natural, historic, or cultural resources. Any new airshafts of test holes to delineate the formation would require separate applications and approval by the FS, in addition to additional cultural resource surveys, consultation with appropriate Native American Tribes, and the Missouri State Historic Preservation Office.

**3) *Would the proposed action have highly controversial environmental effects or involve unresolved conflicts concerning alternative uses of available resources [NEPA Section 102(2)(E)]?***

Since Doe Run's mine has been in existence in the area for over 55 years, the renewal of these leases would not create any additional controversy or involve unresolved conflicts for alternative uses of resources in the area. Existing surface operations/expressions of the mine are small in comparison to the underground operations limiting its interference with other resource activities at the surface. Controversy exists on the project mainly due to old, less environmentally-friendly practices that are no longer in use or allowed. Mitigation measures have been put into place to minimize impacts and to clean up concerns from past practices.

**4) *Would the proposed action have highly uncertain and potentially significant environmental effects or involve unique or unknown environmental risks?***

Renewal of the existing leases would not result in any changes or increased impacts as the lease renewal request is for the continuation of the currently approved mining plan and its associated operations. Since the mines have been in existence for over 55 years, approving the lease renewals is not expected to have any unknown environmental effects or involve unknown risks. Prior mining practices led to some environmental damages, particularly concerning air and water quality; however, newer mining techniques, mitigation measures, and laws implemented since the onset of mining in the area has helped to greatly minimize contamination and other environmental risks.

**5) *Would the proposed action establish a precedent for future action or represent a decision in principle about future actions with potentially significant environmental effects?***

The renewal of these leases is allowed within BLM regulations and would not set any precedent for future actions with potentially significant environmental effects. Should changes to the currently approved mining plan of operations or surface operations be proposed, further site-specific analysis under the NEPA may need to be completed at that time.

**6) *Would the proposed action have a direct relationship to other actions with individually insignificant but cumulatively significant environmental effects?***

The administrative action of renewing the existing leases would not result in an increase in, or change to, surface operations. Any future proposed surface disturbing activities such as new construction, boreholes, vent shafts, tailings ponds, and related activities that change surface operations, and the environmental impacts of these activities, would be addressed in a separate site-specific environmental analysis, in accordance with NEPA.

**7) *Would the proposed action have significant impacts on properties listed, or eligible for listing, on the National Register of Historic Places as determined by either the bureau or office?***

There are no known properties listed or eligible for listing that would be affected by the lease renewals and because no new ground disturbance will be authorized with the renewals, it is unlikely that any additional sites would be discovered that have not already been impacted by the current footprint. Any cores drilled to determine the underground direction would be analyzed separately by the FS to determine their effects, if any, on cultural resources.

**8) *Would the proposed action have significant impacts on species listed, or proposed to be listed, on the List of Endangered or Threatened Species, or have significant impacts on designated Critical Habitat for these species?***

Renewal of the existing leases would not further impact any threatened or endangered species. Lease renewals are an administrative action to allow continuation of operations under the current approved mining plan of operations resulting in no new impact or change to the management or impact to the lands.

**9) *Would the proposed action violate a federal law, or a state, local, or tribal law or requirement imposed for the protection of the environment?***

Renewing the leases for Doe Run would not violate any known Federal, State, local or tribal law imposed for the protection of the environment because the action is only a renewal of the leases for continued operations of the mine.

**10) *Would the proposed action have a disproportionately high and adverse effect on low income or minority populations (Executive Order 12898)?***

Approving the lease renewals would allow Doe Run, a large employer in the area, to continue mining operations and provide paying jobs to local people, thus adding to the local economy. Not approving the lease renewals would likely have a disproportionately high and adverse effect to low income or minority populations as the local economy would likely be negatively affected.

**11) *Would the proposed action limit access to and ceremonial use of Indian sacred sites on Federal lands by Indian religious practitioners or significantly adversely affect the physical integrity of such sacred sites (Executive Order 13007)?***

There are no known Indian sacred sites on or near the surface operations of the mine, and the administrative action to renew the leases would not approve any change in access to the MTNF.

**12) *Would the proposed action contribute to the introduction, continued existence, or spread of noxious weeds or nonnative invasive species known to occur in the area or actions that may promote the introduction, growth, or expansion of the range of such species (Federal Noxious Weed Control Act and Executive Order 13112)?***

Renewal of the existing leases would not contribute to an increased introduction or spread of invasive species from what currently exists because there will be no new ground disturbance and the management of noxious weeds will continue to be carried out with FWS specifications and oversight.

**E. Persons Consulted**

Kurt Wadzinski – BLM Planning and Environmental Coordinator  
Kyle Schumacher – BLM Natural Resources Specialist  
Jarrod Kellogg – BLM Archaeologist/Paleontologist  
Becky Bryan – MTNF Remediation Coordinator

**F. Decision and Rationale for Action**

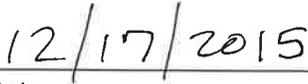
I have decided to implement the proposed lease renewals subject to the FS Hardrock Permit and Leasing Notices and Stipulations for the MTNF approved by the Regional Forester Eastern Region and attached in Appendix C. The FS Hardrock Permit and Leasing Notices and Stipulations for the MTNF provide justification for this decision and may not be segregated from project implementation without further review under the NEPA. Additionally, the original request included 445.31 acres of federal mineral estate in lease MOBLMA 046798; however, 10 acres of this total acreage is no longer under the jurisdiction of the federal government and is privately-owned (see Appendix B for legal description of this land). Since the federal government does not have jurisdiction over these 10 acres, the BLM will adjust lease MOBLMA 046798 to 435.31 acres to account for this ownership change.

I have reviewed the plan conformance statement and have determined the proposed activity is in conformance with the applicable land use plan. Further, I have reviewed the proposal to ensure the appropriate exclusion category as described in the Department of Interior DM 516 part 11 has been correctly applied. It is my determination no further environmental analysis is required.

**Implementation Date**

The lease renewals shall take effect immediately upon the date signed by the Authorized Officer and shall remain in effect while any appeal is pending unless the Interior Board of Land Appeals issues a stay (43 CFR 3501.30).

  
\_\_\_\_\_  
Elena Fink  
Deputy State Director – Natural Resources  
Eastern States

  
\_\_\_\_\_  
Date

**Administrative Review or Appeal Opportunities**

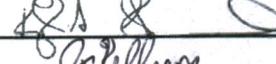
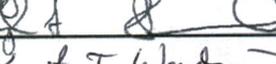
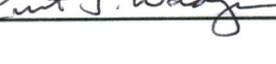
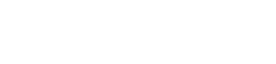
Any appeal of this decision must follow the procedures set forth in 43 CFR Part 4.

Within 30 days of the decision, a notice of appeal must be filed in the office of the Authorized Officer at BLM Eastern States, 20 M Street, SE Suite 950, Washington, DC 20003. If a statement of reasons for the appeal is not included with the notice, it must be filed with the Interior Board of Land Appeals, Office of Hearings and Appeals, U.S. Department of the Interior, 801 North Quincy St., Suite 300, Arlington, VA 22203 within 30 days after the notice of appeal is filed with the Authorized Officer.

**Contact Person**

For additional information concerning this decision, contact Dean Gettinger, District Manager, BLM Northeastern States District, 626 E. Wisconsin Ave, Suite 200, Milwaukee, WI 53202-4617, email [dgettinger@blm.gov](mailto:dgettinger@blm.gov), telephone 414-297-4402.

**Categorical Exclusion Review Record**

Resource	Yes/No*	Assigned Specialist Signature	Date
Air Quality	Yes		10/23/15
Areas of Critical Environmental Concern	Yes		10/23/15
Cultural Resources	Yes		12/2/15
Environmental Justice	Yes		12/2/15
Farm Lands (prime or unique)	Yes		10/23/15
Floodplains	Yes		10/23/15
Invasive Species/Noxious Weeds	Yes		10/23/15
Migratory Birds	Yes		10/23/15
Native American Religious Concerns	Yes		10/23/15
Threatened, Endangered, or Candidate Species	Yes		10/23/15
Wastes (hazardous or solid)	Yes		10/23/15
Water Quality (drinking or ground)	Yes		10/23/15
Wetlands / Riparian Zones	Yes		10/23/15
Wild and Scenic Rivers	Yes		10/23/15
Wilderness	Yes		10/23/15
Other: None	Yes		12/2/15

\*Extraordinary Circumstances apply.

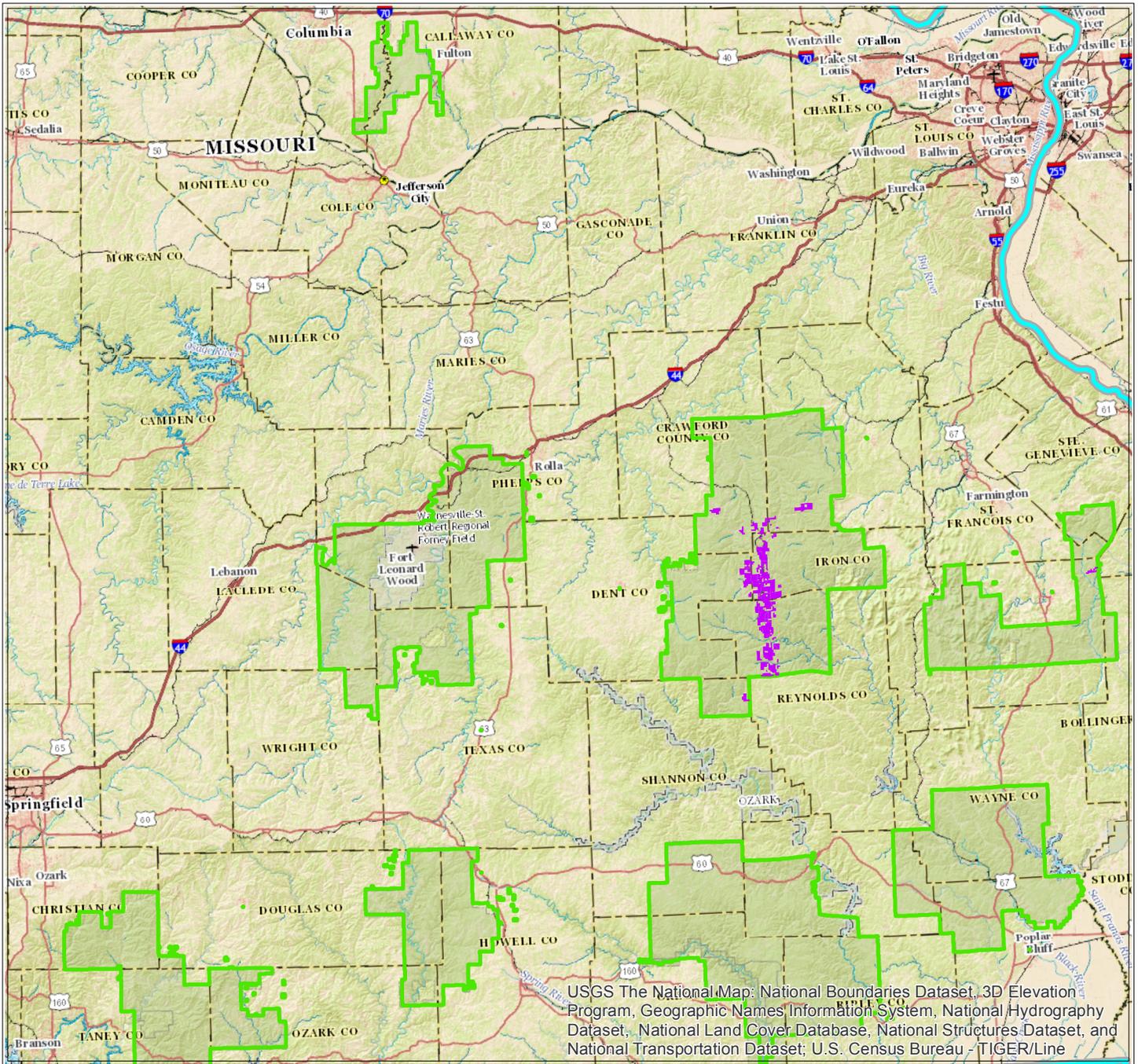
Environmental Coordinator:  Date: Dec. 2, 2015

## REFERENCES

- Seeger, C. M. (2009). History of mining in the Southeast Missouri Lead District and description of mine processes, regulatory controls, environmental effects, and mine facilities in the Viburnum Trend Subdistrict. In M. J. Kleeschulte (Ed.) *Hydrologic investigations concerning lead mining issues in Southeastern Missouri* (1-33). Missouri Department of Natural Resources, Division of Geology and Land Survey. Scientific Investigations Report 2008-5140. U. S. Department of the Interior, U. S. Geological Survey. Retrieved from <http://pubs.usgs.gov/sir/2008/5140/>
- U. S. Department of Agriculture. (2014). Mark Twain National Forest 2005 Land and Resource Management Plan (as amended) and Environmental Impact Statement. Retrieved from <http://www.fs.usda.gov/main/mtnf/landmanagement/planning>

## **APPENDIX A**

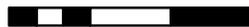
### **Mark Twain National Forest Mineral Leases Overview Map**



## Mark Twain National Forest Mineral Leases Overview



0 5 10 20 30

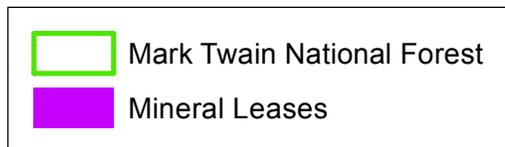


Miles



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
Eastern States  
Northeastern States District  
Milwaukee, WI

NSD Planning Team  
December 2015



This map is intended for display purposes only. No warranty is made on the accuracy, reliability, or completeness of information displayed. Spatial information may not meet National Map Accuracy Standards. Information in this map may be updated without notification.

## **APPENDIX B**

### **Legal Land Descriptions for Leases Considered for Renewal**

**Serial No.: MOES-31337**

Date of Lease: February 1, 2005

County: Reynolds

Township 33 North, Range 2 West, 5<sup>th</sup> P.M., Missouri

Section 35: NW<sup>1</sup>/<sub>4</sub>, SW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub>, NE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub>, E<sup>1</sup>/<sub>2</sub>SE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub>,  
NW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub>, SW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub>.

Containing 340 acres, more or less.

**Serial No.: MOBLMA-046974**

Date of Lease: February 1, 2005

County: Reynolds

Township 33 North, Range 2 West, 5th P.M., Missouri

Section 11: Northeast Quarter Northeast Quarter, Southeast Quarter;

Section 12: South Half Southwest Quarter;

Section 13: Northwest Quarter Northwest Quarter;

Section 14: East Half, East Half Northwest Quarter, Southwest Quarter;

Section 15: Southeast Quarter Southeast Quarter;

Section 22: East Half East Half;

Section 23: North Half, West Half Southwest Quarter.

Containing 1,480 acres, more or less.

**Serial No.: MOBLMA-046975**

Date of Lease: February 1, 2005

County: Reynolds

Township 32 North, Range 1 West, 5<sup>th</sup> P.M., Missouri

Section 6: Lot 2 of Northwest Quarter, West Half Lot 1 Northwest Quarter.

Township 33 North, Range 1 West, 5<sup>th</sup> P.M., Missouri

Section 30: Lot 3 of Southwest Quarter;

Section 31: Lot 3 of Northwest Quarter.

Township 33 North, Range 2 West, 5<sup>th</sup> P.M., Missouri

Section 24: Southeast Quarter, East Half Southwest Quarter, Southwest Quarter Southwest Quarter;

Section 25: North Half, Southwest Quarter, North Half Southeast Quarter, Southwest Quarter Southeast Quarter, East Half Southeast Quarter Southeast Quarter;

Section 26: East Half, Southeast Quarter Northwest Quarter, South Half Northeast Quarter Northwest Quarter;

Section 35: East Half East Half, Northwest Quarter Northeast Quarter;

Section 36: North Half North Half, South Half Northwest Quarter, Southwest Quarter Northeast Quarter, West Half Southwest Quarter, Northeast Quarter Southeast Quarter, West Half West Half Southeast Quarter Southwest Quarter, West Half Southeast Quarter Southeast Quarter Southwest Quarter, West Half West Half Northeast Quarter Southwest Quarter, West Half Northeast Quarter Southeast Quarter Southwest Quarter, East Half Northwest Quarter Southeast Quarter.

Containing 2,218.83 acres, more or less.

**Serial No.: MOBLMA-050698**

Date of Lease: Date of Lease: February 1, 2005

County: Iron County

Township 34 North, Range 1 West, 5<sup>th</sup> P.M., Missouri

Section 29: NW $\frac{1}{4}$ ;

Section 31: NE $\frac{1}{4}$ , SE  $\frac{1}{4}$ ;

Section 32: W $\frac{1}{2}$ .

Township 34 North, Range 2 West, 5<sup>th</sup> P.M., Missouri

Section 24: NE $\frac{1}{4}$ , NE $\frac{1}{4}$ SW $\frac{1}{4}$ , SE $\frac{1}{4}$ NW $\frac{1}{4}$ ;

Section 25: E $\frac{1}{2}$ , NW $\frac{1}{4}$ , N $\frac{1}{2}$ SW $\frac{1}{4}$ ;

Section 26: NE $\frac{1}{4}$ , N $\frac{1}{2}$ SE $\frac{1}{4}$ ;

Section 35: NW $\frac{1}{4}$ NW $\frac{1}{4}$ , NW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ , S $\frac{1}{2}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ , SW $\frac{1}{4}$ .

Containing 2,070 acres, more or less.

**Serial No.: MOBLMA-050847**

Date of Lease: February 1, 2005

Counties: Iron and Dent

Township 34 North, Range 2 West, 5th P.M., Missouri

Section 14: N $\frac{1}{2}$ SE $\frac{1}{4}$ ; SW $\frac{1}{4}$ SE $\frac{1}{4}$ ;

Section 22: SE $\frac{1}{4}$ ; E $\frac{1}{2}$ SW $\frac{1}{4}$ ;

Section 23: W $\frac{1}{2}$ NE $\frac{1}{4}$ ; SE $\frac{1}{4}$ NE $\frac{1}{4}$ ; E $\frac{1}{2}$ SE $\frac{1}{4}$ ; SW $\frac{1}{4}$ SE $\frac{1}{4}$ ; S $\frac{1}{2}$ SW $\frac{1}{4}$ ; SW $\frac{1}{4}$ NW $\frac{1}{4}$ ; SE $\frac{1}{4}$ NW $\frac{1}{4}$  except 1 acre known as School Dist. #9, NW $\frac{1}{4}$ SW $\frac{1}{4}$ ; S $\frac{1}{2}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$  except 1.59 acres, more or less, for right-of-way as shown in deed recorded in Book 77, Page 431 of the Deed Records of Iron County, Missouri, and more particularly described as follows: Beginning at a point on the South boundary of the S $\frac{1}{2}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$  of Section 23, 7.61 chains West of the Southeast corner of said tract, thence North 14 degrees 30' West 2.89 chains, thence North 1 degree West 2.28 chains, thence North 11 degrees East 5.30 chains to a point on the North boundary of said tract;

Section 24: N $\frac{1}{2}$ NW $\frac{1}{4}$ ; SW $\frac{1}{4}$ NW $\frac{1}{4}$ ;

Section 26: W $\frac{1}{2}$ NW $\frac{1}{4}$ ; S $\frac{1}{2}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ ; N $\frac{1}{2}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ ; except 1.57 acres, more or less, for right-of-way more particularly described as follows: Beginning at a point on the North boundary 6.36 chains West of the Northeast corner of said tract, thence South 21 degrees 30' East 1.75 chains, thence South 26 degrees East 8.60 chains to a point on the South boundary of said tract; W $\frac{1}{2}$ SW $\frac{1}{4}$ ; SE $\frac{1}{4}$ SW $\frac{1}{4}$ ; NE $\frac{1}{4}$ SW $\frac{1}{4}$  except 2 acres in SW corner for school building and less 1 acre in SE corner sold to School Dist. #9 for school purposes and a 5 acre tract at the Southern terminus of the Sligo Furnace Company's Log Road described as follows: Running North, East, South and West 233' from the center of the store building as now located at Buick, Missouri;

Section 27: E $\frac{1}{2}$ SW $\frac{1}{4}$ ; SE $\frac{1}{4}$ ;

Section 28: SE $\frac{1}{4}$ SE $\frac{1}{4}$ ;

Section 33: NE $\frac{1}{4}$ .

Containing 1,647.84 acres, more or less.

**Serial No.: MOBLMA-050303**

Date of Lease: February 1, 2005

Counties: Iron and Reynolds

Township 33 North, Range 2 West, 5<sup>th</sup> P.M., Missouri

- Section 1: Lot 1 NE $\frac{1}{4}$ , W $\frac{1}{2}$  Lot 2 NE $\frac{1}{4}$ , SE $\frac{1}{4}$ ,  
Lot 1 NW $\frac{1}{4}$ ,  
Lot 2 NW $\frac{1}{4}$ , SW $\frac{1}{4}$ ,  
Section 2: E $\frac{1}{2}$  Lot 1 NE $\frac{1}{4}$ , Lot 2 NE $\frac{1}{4}$ , W $\frac{1}{2}$ SW $\frac{1}{4}$ ,  
Section 3: E $\frac{1}{2}$ SE $\frac{1}{4}$ , E $\frac{1}{2}$  Lot 1 NE $\frac{1}{4}$ , E $\frac{1}{2}$ E $\frac{1}{2}$  Lot 2 NE $\frac{1}{4}$ ,  
Section 10: E $\frac{1}{2}$ ,  
Section 12: NE $\frac{1}{4}$ , S $\frac{1}{2}$ SE $\frac{1}{4}$ , SE $\frac{1}{4}$ NW $\frac{1}{4}$ ,  
N $\frac{1}{2}$ NW $\frac{1}{4}$ .

Township 34 North, Range 2 West, 5<sup>th</sup> P.M., Missouri

- Section 35: SE $\frac{1}{4}$ , S $\frac{1}{2}$ NE $\frac{1}{4}$ , NE $\frac{1}{4}$ NE $\frac{1}{4}$ ,  
SE $\frac{1}{4}$ NW $\frac{1}{4}$  except a strip of land being  
200 feet wide where it passes through  
the SE $\frac{1}{4}$ NW $\frac{1}{4}$ , containing 1.5 acres,  
Section 36: E $\frac{1}{2}$ , SW $\frac{1}{4}$ , N $\frac{1}{2}$ NW $\frac{1}{4}$ , SW $\frac{1}{4}$ NW $\frac{1}{4}$ .

Containing 2,547.45 acres, more or less.

**Serial No.: MOBLMA-050304**

Date of Lease: February 1, 2005

Counties: Iron and Reynolds

Township 33 North, Range 1 West, 5<sup>th</sup> P.M., Missouri

Section 6: Lots 1, 2, 3, SW<sup>1</sup>/<sub>4</sub>;

Section 7: Lots 1, 2 SW<sup>1</sup>/<sub>4</sub>, S<sup>1</sup>/<sub>2</sub> Lot 3 SW<sup>1</sup>/<sub>4</sub>,  
less an 8-acre tract across  
the North side thereof; S<sup>1</sup>/<sub>2</sub>  
Lot 2 NW<sup>1</sup>/<sub>4</sub>, N<sup>1</sup>/<sub>2</sub> Lot 3 NW<sup>1</sup>/<sub>4</sub>;

Section 18: Lots 1, 2 SW<sup>1</sup>/<sub>4</sub>, S<sup>1</sup>/<sub>2</sub> Lot 2 NW<sup>1</sup>/<sub>4</sub>.

Township 33 North, Range 2 West, 5<sup>th</sup> P.M., Missouri

Section 13: E<sup>1</sup>/<sub>2</sub>.

Township 34 North, Range 1 West, 5<sup>th</sup> P.M., Missouri

Section 19: Lots 1, 2, 3 NW<sup>1</sup>/<sub>4</sub>, Lots 1, 2, 3 SW<sup>1</sup>/<sub>4</sub>;

Section 30: Lots 1, 2, 3 NW<sup>1</sup>/<sub>4</sub>, Lots 1 and 3 SW<sup>1</sup>/<sub>4</sub>,  
N<sup>1</sup>/<sub>2</sub> Lot 2 SW<sup>1</sup>/<sub>4</sub>, E<sup>1</sup>/<sub>2</sub>S<sup>1</sup>/<sub>2</sub> Lot 2 SW<sup>1</sup>/<sub>4</sub>,  
NW<sup>1</sup>/<sub>4</sub>S<sup>1</sup>/<sub>2</sub> Lot 2 SW<sup>1</sup>/<sub>4</sub>;

Section 31: Lots 1, 2, 3 NW<sup>1</sup>/<sub>4</sub>, Lots 1, 2, 3 SW<sup>1</sup>/<sub>4</sub>.

Containing 2,518.66 acres, more or less.

**Serial No.: MOBLMA-073742**

Date of Lease: February 1, 2005

County: Reynolds

Township 33 North, Range 2 West, 5<sup>th</sup> P.M., Missouri

Section 11: NW $\frac{1}{4}$ , SW $\frac{1}{4}$ , W $\frac{1}{2}$ NE $\frac{1}{4}$ ;

Section 13: SW $\frac{1}{4}$ , S $\frac{1}{2}$ NW $\frac{1}{4}$ , NE $\frac{1}{4}$ NW $\frac{1}{4}$ ;

Section 14: W $\frac{1}{2}$ NW $\frac{1}{4}$ .

Containing 760 acres, more or less.

**Serial No.: MOBLMA-073749**

Date of Lease: February 1, 2005

County: Reynolds

Township 33 North, Range 2 West 5<sup>th</sup> P.M., Missouri

Section 24: NW $\frac{1}{4}$ , S $\frac{1}{2}$ NE $\frac{1}{4}$ .

Containing 240 acres, more or less.

**Serial No.: MOBLMA-040200**

Date of Lease: February 1, 2005

County: Dent

Township 34 North, Range 2 West, 5<sup>th</sup> P.M., Missouri

Section 8: E $\frac{1}{2}$ , E $\frac{1}{2}$ NW $\frac{1}{4}$ , E $\frac{1}{2}$ SW $\frac{1}{4}$ ;

Section 9: N $\frac{1}{2}$ NW $\frac{1}{4}$ , NE $\frac{1}{4}$ , N $\frac{1}{2}$ N $\frac{1}{2}$ SE $\frac{1}{4}$ , S $\frac{1}{2}$ SW $\frac{1}{4}$ , S $\frac{1}{2}$ SE $\frac{1}{4}$ ;

Section 16: N $\frac{1}{2}$ , NE $\frac{1}{4}$ SW $\frac{1}{4}$ , S $\frac{1}{2}$ SW $\frac{1}{4}$ , SE $\frac{1}{4}$ .

Containing 1,520 acres, more or less.

**Serial No.: MOBLMA-039780**

Date of Lease: February 1, 2005

County: Iron

Township 34 North, Range 2 West, 5th P.M., Missouri

Section 23: NW $\frac{1}{4}$ SE $\frac{1}{4}$ .

Containing 40 acres, more or less.

**Serial No.: MOBLMA-047498**

Date of Lease: February 1, 2005

County: Iron

Township 34 North, Range 2 West, 5th P.M., Missouri

Section 13: N $\frac{1}{2}$ , N $\frac{1}{2}$ SE $\frac{1}{4}$ , N $\frac{1}{2}$ SW $\frac{1}{4}$ , SW $\frac{1}{4}$ SW $\frac{1}{4}$ , SW $\frac{1}{4}$ SE $\frac{1}{4}$ ;

Section 14: NE $\frac{1}{4}$ NE $\frac{1}{4}$ , except a 100 foot right of way, described as follows: Beginning at a point 6.91 chains West of the Northeast corner of Section 14, run South 53° West 2.64 chains, thence South 51 ° 30' West 9.09 chains, thence South 22 ° West 3.62 chains, thence South 11 ° West 8.90 chains to a point on the South line of the NE $\frac{1}{4}$ NE $\frac{1}{4}$  which is 0.9 chains from the Southwest Corner of NE $\frac{1}{4}$ NE $\frac{1}{4}$ , containing 3.67 acres, more or less;

SE $\frac{1}{4}$ NE $\frac{1}{4}$  except a strip of land 100 feet wide, extending 50 feet on each side of a centerline beginning at a point that is approximately 20 chains South and 19 chains West of the Northeast Corner of Section 14, thence South 12 ° West 4 chains to a point that is approximately 24 chains South and 20 chains West of the Northeast Corner of Section 14, containing 0.61 acres, more or less; S $\frac{1}{2}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ , N $\frac{1}{2}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ , NW $\frac{1}{4}$ .

Containing 835.72 acres, more or less.

**Serial No.: MOBLMA-055202**

Date of Lease: February 1, 2005

County: Dent

Township 34 North, Range 2 West, 5th P.M., Missouri

Section 3: Lots 1 and 2 of the NW<sup>1</sup>/<sub>4</sub>, W<sup>1</sup>/<sub>2</sub> Lot 2 of NE<sup>1</sup>/<sub>4</sub>, NW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub>;  
Section 4: Lots 1, 2 and 3 of NW<sup>1</sup>/<sub>4</sub>, Lots 2 and 3 of NE<sup>1</sup>/<sub>4</sub>, West 3/4 of  
Lot 1 of NE<sup>1</sup>/<sub>4</sub>, NW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub>, S<sup>1</sup>/<sub>2</sub>SE<sup>1</sup>/<sub>4</sub>, S<sup>1</sup>/<sub>2</sub>SW<sup>1</sup>/<sub>4</sub>;  
Section 10: W<sup>1</sup>/<sub>2</sub>W<sup>1</sup>/<sub>2</sub>SW<sup>1</sup>/<sub>4</sub>;  
Section 15: All;  
Section 20: E<sup>1</sup>/<sub>2</sub>NE<sup>1</sup>/<sub>4</sub>, E<sup>1</sup>/<sub>2</sub>NE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub>, SE<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub>;  
Section 21: N<sup>1</sup>/<sub>2</sub>, N<sup>1</sup>/<sub>2</sub>SW<sup>1</sup>/<sub>4</sub>, SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub>;  
Section 22: W<sup>1</sup>/<sub>2</sub>NW<sup>1</sup>/<sub>4</sub>.

Containing 2,240 acres, more or less.

**Serial No.: MOBLMA-063985**

Date of Lease: February 1, 2005

County: Iron

Township 34 North, Range 2 West, 5th P.M., Missouri

Section 14: N $\frac{1}{2}$ SW $\frac{1}{4}$ , N $\frac{1}{2}$ S $\frac{1}{2}$ SW $\frac{1}{4}$ , S $\frac{1}{2}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ ;

Section 22: NE $\frac{1}{4}$ , E $\frac{1}{2}$ NW $\frac{1}{4}$ ;

Section 23: N $\frac{1}{2}$ NW $\frac{1}{4}$ .

Containing 460 acres, more or less.

**Serial No.: MOBLMA-057694**

Date of Lease: February 1, 2005

County: Washington

Township 36 North, Range 1 West, 5th P.M., Missouri

Section 35: SW $\frac{1}{4}$  and SE $\frac{1}{4}$ ;

Section 36: All except 120.00 acres described as follows: Beginning at a point 15.25 chains south of the northeast corner of Section 36, thence west 34.65 chains, thence south 34.65 chains, thence east 34.65 chains to section line, thence north 34.65 chains to point of beginning.

Township 36 North, Range 1 East, 5th P.M., Missouri

Section 31: All.

Township 35 North, Range 1 West, 5th P.M., Missouri

Section 1: Lot 3 of NW $\frac{1}{4}$ .

Containing 1,478.32 acres, more or less.

**Serial No.: MOBLMA-047477**

Date of Lease: February 1, 2005

County: Reynolds

Township 32 North, Range 1 West, 5th P.M., Missouri

Section 19: W $\frac{1}{2}$ SE $\frac{1}{4}$ ;

Section 30: Lots 2 & 3 of SW $\frac{1}{4}$ , S $\frac{1}{2}$  Lots 2 & 3 of NW $\frac{1}{4}$ , NE $\frac{1}{4}$ SE $\frac{1}{4}$ ,  
W $\frac{1}{2}$ SE $\frac{1}{4}$ ;

Section 31: W $\frac{1}{2}$ SE $\frac{1}{4}$ , Lot 2 of NW $\frac{1}{4}$ , W $\frac{1}{2}$  Lot 1 of NW $\frac{1}{4}$ , Lot 1 & 2 of SW $\frac{1}{4}$  except 8.49 acres Beginning 1304.18 feet North 85°34.5' East from the southwest corner of Section 31, T32N, R1W, said point being on the south line of Section 31, run thence North 0°38.7' East 801.72 feet to the intersection of the south right-of-way line of Route 72; thence South 51°28.0' East 1171.53 feet to a point on the south right-of-way line of Route 72; thence South 85°34.5' West 928.22 feet to the point of beginning; and Lot 2 of SW $\frac{1}{4}$  also except West 80 acres and except a strip over and across the above described land for highway right-of-way described as follows: Starting at a point 15.83 chains South 85° West of the South 1/4 corner of Section 31, T32N, R1W,; thence North 52.5° West a distance of 4.95 chains to place of beginning; thence 31' on each side of centerline of a traverse North 52.5° West for a distance of 8.85 chains, containing .80 acres, more or less; and except also a strip over and across the above described land for railroad right-of-way described as follows: Starting at South 1/4 corner of Section 31, T32N, R1W., Thence .85° West 17.79 chains; thence North 52.5° West 2.50 chains to place of beginning; thence 50' on each side of centerline of traverse as follows: North 52.5° West a distance of 8.80 chains, containing 1.33 acres, more or less.

Township 32 North, Range 2 West, 5th PM, Missouri

Section 25: E $\frac{1}{2}$ W $\frac{1}{2}$ , S $\frac{1}{2}$ NE $\frac{1}{4}$ , SE $\frac{1}{4}$ ;

Section 36: All NE $\frac{1}{4}$  lying East and North of Highway 72 less a parcel of land containing 1-1/5 acres beginning at a stated corner on the North side of State Highway #72 running North on the range line between Section 36, T32N, R2W, and Section 31, T32N, R1W, running North 400 feet, thence West 3.30 back to State Highway #72, thence South 39  East 5.33 feet along said State Highway #72 back to starting point on the meridian as above stated. (Except a strip of land 100 feet in width extending over and across the land, containing 6 acres, more or less.)

Containing 1,297.54 acres, more or less.

**Serial No.: MOBLMA-049307**

Date of Lease: February 1, 2005

County: Reynolds

Township 32 North, Range 2 West, 5th P.M., Missouri

Section 1: Southeast Quarter Southeast Quarter, South Half Southwest Quarter;

Section 11: South Half Northeast Quarter, Southeast Quarter;

Section 12: West Half, Southeast Quarter, East Half Northeast Quarter;

Section 13: Northeast Quarter Northwest Quarter, North Half Northeast Quarter, South Half North Half, South Half;

Section 14: West Half Northeast Quarter, Southeast Quarter Northeast Quarter, Southeast Quarter;

Section 23: Northeast Quarter Northeast Quarter;

Section 24: Northeast Quarter, East Half Northwest Quarter, Northwest Quarter Northwest Quarter.

Township 32 North, Range 1 West, 5th P.M., Missouri

Section 7: Lot 2 Northwest Quarter, Lots 1 & 2 Southwest Quarter;

Section 18: Lot 3 Northwest Quarter, Lots 2 & 3 Southwest Quarter.

Containing 2539.62 acres, more or less.

**Serial No.: MOBLMA-075369**

Date of Lease: February 1, 2005

County: Reynolds

Township 32 North, Range 2 West 5<sup>th</sup> P.M., Missouri

Section 15: E $\frac{1}{2}$ ;

Section 22: NE $\frac{1}{4}$ ;

Section 23: S $\frac{1}{2}$ S $\frac{1}{2}$ , SW $\frac{1}{4}$ NW $\frac{1}{4}$ ;

Section 26: N $\frac{1}{2}$ , SW $\frac{1}{4}$ ;

Section 35: SE $\frac{1}{4}$ , S $\frac{1}{2}$ SW $\frac{1}{4}$ , NE $\frac{1}{4}$ SW $\frac{1}{4}$ , E $\frac{1}{2}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$  except 0.91 acres conveyed to the State of Missouri for highway purposes, which exception is more particularly described as follows: Beginning at a point 15.55 chains due south of the northeast corner of Section 35, thence due west 10.00 chains, thence due south 0.91 chains, thence due east 10.00 chains, thence due north 0.91 chains to the point of beginning 19.09 acres;

Section 36: SW $\frac{1}{4}$ , S $\frac{1}{2}$ SE $\frac{1}{4}$ .

Containing 1,699.18 acres, more or less.

**Serial No.: MOBLMA-077396**

Date of Lease: February 1, 2005

County: Reynolds

Township 32 North, Range 2 West, 5<sup>th</sup> P.M., Missouri

Section 24: SW $\frac{1}{4}$ SW $\frac{1}{4}$ .

Containing 40 acres, more or less.

**Serial No.: MOBLMA-045266**

Date of Lease: February 1, 2005

County: Crawford

Township 35 North, Range 2 West, 5<sup>th</sup> P.M., Missouri

Section 1: S3/4SE $\frac{1}{4}$ SW $\frac{1}{4}$ ;

Section 12: E $\frac{1}{2}$  NW $\frac{1}{4}$ ;

An 8-acre strip off West side of NW...NE...

lying west of the Washington-Crawford County line.

Containing 118 acres, more or less.

**Serial No.: MOBLMA-079670**

Date of Lease: February 1, 2005

County: Crawford

Township 35 North, Range 2 West 5<sup>th</sup> P.M., Missouri

Section 17: W $\frac{1}{2}$ NE $\frac{1}{4}$ , W $\frac{1}{2}$ SE $\frac{1}{4}$ , E $\frac{1}{2}$ SW $\frac{1}{4}$ , NW $\frac{1}{4}$ SW $\frac{1}{4}$ ;

Section 20: NW $\frac{1}{4}$ NE $\frac{1}{4}$ , NE $\frac{1}{4}$ NE $\frac{1}{4}$ .

Containing 360 acres, more or less.

**Serial No.: MOBLMA-044857**

Date of Lease: February 1, 2005

Counties: Crawford and Washington

Township 35 North, Range 2 West, 5th P.M., Missouri

- Section 1: Pt. S1/2SE1/4 East of Crawford – Washington County Line,  
S3/4 SW1/4SE1/4 West of Crawford – Washington County  
Line;  
Section 10: N1/2SE1/4, NE1/4SW1/4, SE1/4NW1/4;  
Section 11: E1/2SE1/4;  
Section 12: E1/2NE1/4,  
Pt. SW1/4NE1/4 East of Crawford – Washington County Line.

Township 35 North, Range 1 West, 5th P.M., Missouri

- Section 6: S1/2SE1/4, NE1/4SE1/4, S1/2SW1/4.

Containing 626.64 acres, more or less.

**Serial No.: MOBLMA-040279**

Date of Lease: February 1, 2005

Counties: Washington and Crawford

Township 35 North, Range 1 West, 5<sup>th</sup> P.M., Missouri

Section 7: SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub>;

Section 17: SW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub>, SE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> Less 10 acres of NE<sup>1</sup>/<sub>4</sub> Part;

Section 19: S<sup>1</sup>/<sub>2</sub>NE<sup>1</sup>/<sub>4</sub>, N<sup>1</sup>/<sub>2</sub>SE<sup>1</sup>/<sub>4</sub>, Lot 1 SW<sup>1</sup>/<sub>4</sub>.

Township 35 North, Range 2 West, 5<sup>th</sup> P.M., Missouri

Section 10: S<sup>1</sup>/<sub>2</sub>SE<sup>1</sup>/<sub>4</sub>, S<sup>1</sup>/<sub>2</sub>SW<sup>1</sup>/<sub>4</sub>;

Section 12: SW<sup>1</sup>/<sub>4</sub>;

Section 14: S<sup>1</sup>/<sub>2</sub>NE<sup>1</sup>/<sub>4</sub>, SE<sup>1</sup>/<sub>4</sub>;

Section 15: NE<sup>1</sup>/<sub>4</sub>, N<sup>1</sup>/<sub>2</sub>SW<sup>1</sup>/<sub>4</sub>, NW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub>.

Containing 1,183.01 acres, more or less.

**Serial No.: MOBLMA-042483**

Date of Lease: February 1, 2005

County: Iron

Township 34 North, Range 2 West, 5<sup>th</sup> P.M., Missouri

Section 1: Lots 7 and 8 NW $\frac{1}{4}$ .

Township 35 North, Range 2 West 5<sup>th</sup> P.M., Missouri

Section 34: SE $\frac{1}{4}$ NE $\frac{1}{4}$ , E $\frac{1}{2}$ SE $\frac{1}{4}$ ;

Section 35: NE $\frac{1}{4}$ NE $\frac{1}{4}$ , S $\frac{1}{2}$ NE $\frac{1}{4}$ , SE $\frac{1}{4}$ , SW $\frac{1}{4}$ , S $\frac{1}{2}$ NW $\frac{1}{4}$ ;

Section 36: SW $\frac{1}{4}$ , W $\frac{1}{2}$ SE $\frac{1}{4}$ , NW $\frac{1}{4}$ .

Containing 1,205.32 acres, more or less.

**Serial No.: MOBLMA-042870**

Date of Lease: February 1, 2005

County: Iron

Township 34 North, Range 2 West 5<sup>th</sup> P.M., Missouri

Section 1: W1/2 Lot 3 W1/2 Lot 4, W1/2 Lot 5, W1/2 Lot 6 all in NE1/4, Lots 3, 4, 5, and 6 in NW1/4;

Section 2: E1/2 Lot 3 NE1/4, Lots 4, 6, 7, 8 in NE1/4, Lot 5 NE1/4 less that part described as follows: Beginning at a point on the north line of said Lot 5 of NE1/4 22 chains and 97 links west to NE corner of said Lot 5; thence South 3 degrees West M. C. on tangent 774 feet to point of curve to the left whose radius is 410.3 feet; thence on said curve 500 feet to point of tangent; thence South 66 degrees 50' East M. C. on said tangent 96 feet to a point on the east line of West Half of Lot 5 of NE1/4, one chain and 62 links North of the South line of said Lot 5 of NE1/4, containing 6.66 acres, more or less.  
E1/2 Lot 7, E1/2 Lot 8 in NW1/4.

Containing 1,006.39 acres, more or less.

**Serial No.: MOBLMA-046798**

Date of Lease: February 1, 2005

County: Iron

Township 34 North, Range 2 West, 5<sup>th</sup> P.M., Missouri

Township 34 North, Range 2 West, 5<sup>th</sup> P.M., Missouri

Section 1: W $\frac{1}{2}$  of SE $\frac{1}{4}$ , said SE $\frac{1}{4}$  being described as follows:

All that part of the SE $\frac{1}{4}$  lying South of the Sligo Furnace Company's log road as now constructed and South of the Iron Mountain and Salem State Road containing 90.00 acres.

All that part of the SE... North of the right-of-way lying North of a point 100 feet North of the Iron Mountain and Salem Road, except a strip of land 200 feet wide, 100 feet on each side of the center line of the Iron County Center Railroad containing 63.94 acres.

Total .....	76.97 acres
W $\frac{1}{2}$ Lots 1 & 2 NE $\frac{1}{4}$ .....	81.66 acres
Lots 1 & 2 NW $\frac{1}{4}$ .....	166.68 acres
Section 2: E $\frac{1}{2}$ Lot 2 NE $\frac{1}{4}$ .....	40.00 acres
Section 12: W $\frac{1}{2}$ NE $\frac{1}{4}$ .....	<u>80.00 acres</u>
TOTAL	445.31 acres

**AND, Except the following acres conveyed out of federal ownership described as:**

Section 12: W $\frac{1}{2}$  NE $\frac{1}{4}$  West of Rt. 79 just south of the town of Bixby containing approximately 10 acres.

Containing 435.31 acres, more or less.

**Serial No.: MOBLMA-048106**

Date of Lease: February 1, 2005

County: Iron

Township 34 North, Range 2 West, 5<sup>th</sup> P.M., Missouri

Section 2: E $\frac{1}{2}$ SW $\frac{1}{4}$ , S $\frac{1}{2}$ SE $\frac{1}{4}$ , NE $\frac{1}{4}$ SE $\frac{1}{4}$ , E $\frac{1}{2}$  Lot 1 NE $\frac{1}{4}$  except a strip across Lots 1 and 2 of the NW $\frac{1}{4}$  of Section 1 and E $\frac{1}{2}$  of Lots 1, 2 and 3 of the NE $\frac{1}{4}$  of Section 2, 100 ft. in width, 50 ft. lying on each side of and adjoining the above described center line from the grantor's N to S property line, including all right, title or interest in that portion of the Sligo and Eastern Railroad right-of-way as deeded from the Sligo and Eastern Railroad Company to Iron County, as per deed of record in Deed Record Book 91, Page 264 and described as follows: Beginning at Station 202+30 on the centerline of Route 49, Missouri State Highway as surveyed, a point on the grantor's N Property line 860 ft., more or less, W of the SE corner of Lot 4 of the NE $\frac{1}{4}$  of Section 2, thence on said centerline, S 9 deg. 02' W 270 ft. to P.C. Station 205+00; thence Southerly on the arc of a 5 deg. Curve left 771.9 ft. to P.T., Station 212+71.9, thence south 37 deg. 17' E 78 ft. to equation of stations and bearing, Station 213+149.9, back equals Station 216+00 forward and S 37 deg. 17' E back equals S 37 deg. 18' E forward; (thence continuing 37 deg. 18' E forward) thence continuing S 37 deg. 18' E 1205.1 to P.C., Station 228+05.1, thence Southeasterly on the Arc of a degree curve left 482.5 ft. to P.T., Station 232+6, thence S 56 deg. 36' E 454.6 ft. to P.C., Station 237+42.2, thence Southeasterly on the arc of an 8 deg. Curve right 625 ft. to P.T., Station 243+67.2 thence S 6 deg. 36' E 589.4 ft. to P.C., Station 249+56.6, thence S on the arc of a 6 deg. Curve right 543.4 ft. to Station 255+00 a point on the grantor's S property line 1,815 ft., more or less, W of the SE corner of Lot 1 of the NW $\frac{1}{4}$  of Section 1.

Section 11: S $\frac{1}{2}$ NE $\frac{1}{4}$ , NE $\frac{1}{4}$ NE $\frac{1}{4}$  excepting 660 lin. Ft. x 200 and 528 lin. Ft. x 60, totaling in all, 3.75 acres, and also excepting two acres described as beginning at the central point of the NE $\frac{1}{4}$  of Sec. 11, running thence East 10 rods, thence South 16 rods, thence West 20 rods, thence North 16 rods, and thence East 10 rods to the point of beginning. SE $\frac{1}{4}$ , N $\frac{1}{2}$ NW $\frac{1}{4}$ , SW $\frac{1}{4}$ NW $\frac{1}{4}$ , NW $\frac{1}{4}$ SW $\frac{1}{4}$  except that part described as follows: Starting at Station 1404+30 on the centerline of Route 32, Missouri State Highway as surveyed, 291 ft. north of the southwest corner, Northeast quarter Southeast quarter Section 10, Township 34 North, Range 2 West, thence following said centerline northeasterly 1430 feet to Station 1390+00, a point on the grantor's west property line, and is the point of beginning, thence continuing on said centerline northeasterly on the arc of a 3 degree curve right, 501.23 feet to P.C., Station 1384+98.77, thence north 85 degrees 44' East, 848.77 feet to Station 1376+50 a point on the grantor's approximate east property line, containing 2.62 acres.

Containing 670.42 acres, more or less.

**Serial No.: MOBLMA-052782**

Date of Lease: February 1, 2005

County: Iron

Township 34 North, Range 2 West, 5<sup>th</sup> P.M., Missouri

Section 12: SW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub>, S<sup>1</sup>/<sub>2</sub>SW<sup>1</sup>/<sub>4</sub>.

Containing 120 acres, more or less.

**Serial No.: MOBLMA-063466**

Date of Lease: February 1, 2005

County: Iron

Township 34 North, Range 2 West, 5th P.M., Missouri

Section 1: All that part of the West Half of Southwest Quarter lying West of the West right-of-way line of Missouri State Highway route SB, as the same is now located and constructed across the foregoing description, said Highway being 100 feet in width, the center line of which is described as follows: Beginning at a point on the North line of the Southwest Quarter, Section 1, approximately 1,815 feet West of the Northeast corner thereof, said point also being known as Station 255+00 of Missouri State Highway route SB as surveyed; thence along said center line in a Southwesterly direction on the arc of a 6 ° curve right 342.4 feet to a PT, Station 258+ 42.4; thence South 46 ° 34' West 55.8 feet equation of Station and bearings, Station 258+ 98.2 equals Station 260+00 forward and south 46 ° 33' West, equals South 46 ° 34' West; thence continuing South 46 ° 34' West 403.2 feet to a PC, Station 264+03.2; thence Southwesterly on the arc of a 6 ° curve left 490 feet to a PT, Station 268+93.2; thence South 17 ° 10' West, 261.4 feet to a PC, Station 271+54.6; thence Southerly on the arc of a 9 ° curve left 669.6 feet to a PT, Station 278+24.2; thence South 43 ° 6' East, 356.8 feet to a PC, Station 281+81; thence Southerly on the arc of an 8 ° curve right 424.8 feet to a PT, Station 286+05.8; thence South 9 ° 7' East 54.2 feet to a point on the South line of Section 1, approximately 534 feet West of the Southeast corner of the Southwest Quarter of Southwest Quarter of said Section 1.

Containing 30.04 acres, more or less.

**Serial No.: MOBLMA-041128**

Date of Lease: February 1, 2005

County: Iron

Township 35 North, Range 2 West, 5<sup>th</sup> P.M., Missouri

Section 13: SE $\frac{1}{4}$ SE $\frac{1}{4}$ , All of SW $\frac{1}{4}$ SE $\frac{1}{4}$  East of Crawford County Line;

Section 23: N $\frac{1}{2}$ N $\frac{1}{2}$ , SE $\frac{1}{4}$ SW $\frac{1}{4}$ , NW $\frac{1}{4}$ SE $\frac{1}{4}$ ;

Section 24: SW $\frac{1}{4}$ NW  $\frac{1}{4}$ ;

Section 25: SW $\frac{1}{4}$ NW $\frac{1}{4}$ , SW $\frac{1}{4}$ ;

Section 26: SE $\frac{1}{4}$ NE $\frac{1}{4}$ .

Containing 592 acres, more or less.

**Serial No.: MOES-4443**

Date of Lease: February 1, 2005

County: Shannon

Township 31 North, Range 2 West, 5<sup>th</sup> P.M., Missouri

Section 20: SE $\frac{1}{4}$ NW $\frac{1}{4}$ , NE $\frac{1}{4}$ SW $\frac{1}{4}$ , N $\frac{1}{2}$ SE $\frac{1}{4}$ .

Containing 160 acres, more or less.

**Serial No.: MOES-11508**

Date of Lease: February 1, 2005

County: Shannon

Township 31 North, Range 2 West, 5<sup>th</sup> P.M., Missouri

Section 20: SW $\frac{1}{4}$ NW $\frac{1}{4}$ , NW $\frac{1}{4}$ SW $\frac{1}{4}$ ;

Section 19: E $\frac{1}{2}$ NE $\frac{1}{4}$ .

Containing 160 acres, more or less.

**Serial No.: MOBLMA-079252**

Date of Lease: February 1, 2005

County: Shannon

Township 31 North, Range 2 West, 5<sup>th</sup> P.M., Missouri

Section 17: SE $\frac{1}{4}$ ;

Section 20: NE $\frac{1}{4}$ .

Containing 320 acres, more or less.

**Serial No.: MOES-2597**

Date of Lease: February 1, 2005

County: Reynolds

Township 33 North, Range 2 West, 5<sup>th</sup> P.M., Missouri

Section 36: E2NESW, E2W2NESW, E2NESESW, NESESESW,  
W2NWSE, NWSWSE, N2SWSWSE.

Containing 82.50 acres, more or less.

**Serial No.: MOBLMA-043228**

Date of Lease: February 1, 2005

County: Madison

Township 34 North, Range 8 East, 5<sup>th</sup> P.M., Missouri

Section 28: SE $\frac{1}{4}$ SW $\frac{1}{4}$ , N $\frac{1}{2}$ SE $\frac{1}{4}$ , That part (10 acres) of the SW $\frac{1}{4}$ SE $\frac{1}{4}$  lying North of a small creek;

Section 33: NW $\frac{1}{4}$ NE $\frac{1}{4}$ .

Containing 170 acres, more or less.

**Serial No.: MOBLMA-028351**

Date of Lease: February 1, 2005

County: Madison

Township 34 North, Range 8 East, 5<sup>th</sup> P.M., Missouri

Section 29: SE $\frac{1}{4}$ SE $\frac{1}{4}$ ;

Section 32: E $\frac{1}{2}$ NW $\frac{1}{4}$ , SW $\frac{1}{4}$ NW $\frac{1}{4}$ , N $\frac{1}{2}$ NE $\frac{1}{4}$ , N $\frac{1}{2}$ S $\frac{1}{2}$ NE $\frac{1}{4}$ ;

Section 33: N $\frac{1}{2}$ NW $\frac{1}{4}$ , N $\frac{1}{2}$ S $\frac{1}{2}$ NW $\frac{1}{4}$ .

Containing 400 acres, more or less.

## **APPENDIX C**

### **U.S. Forest Service Lease Stipulation Review Letter to BLM with Lease Notices and Stipulations**



United States  
Department of  
Agriculture

Forest  
Service

Eastern Region  
Regional Office

626 East Wisconsin Avenue  
Suite 800  
Milwaukee, WI 53202  
414-297-3600

File Code: 2820

Date: NOV 13 2015

Mr. Dean S. Gettinger  
District Manager  
Bureau of Land Management  
626 E. Wisconsin Ave, Suite 200  
Milwaukee, WI 53202-4608

Dear Mr. Gettinger:

Enclosed is a Bureau of Land Management (BLM) April 15, 2015, request to the Forest Service to review the lease stipulations for the following 36 leases as part of BLM's process to renew Doe Run's leases (the memo includes Doe Run application to renew):

MOES31337, MOBLMA's 046974, 046975, 050698, 050847, 050303, 050304, 073742, 073749, 040200, 039780, 047498, 055202, 063985, 057694, 047477, 049307, 075369, 077396, 045266, 079670, 044857, 040279, 042483, 042870, 046798, 048106, 052782, 063466, 041128, 11508, 079252, 028351, 043228, MOES4443 and MOES2597.

MOBLMA 046798 will be 10 acres less than the previous lease of 445.31 acres because of a change from public to private ownership (see enclosed May 7, 2015, memo from Dean Gettinger).

In response, the Forest Service has no objection to renew these preference right leases provided the enclosed stipulations are made part of each lease. These stipulations do not include any substantive changes to the current lease stipulations. The changes included reflect updated references to our 2005 Forest Plan, U.S. Fish and Wildlife Biological Opinion, and State Historic Preservation Office.

If you have questions or need copies of any of the documents referenced, please contact Randy Rabideaux [rrabideaux@fs.fed.us](mailto:rrabideaux@fs.fed.us) at (414) 297-1391.

Thank you for the opportunity to submit our recommendations.

Sincerely,

*Mary Beth Borst*  
for KATHLEEN ATKINSON  
Regional Forester Eastern Region

cc: William Nightingale, Galen Johnson, Becky Bryan, Randy Rabideaux, Elena Fink



# Leasing Notices and Stipulations

## Hardrock Permit and Leasing Notices and Stipulations

- The following standard stipulations should be attached to all leases:

**USDA – FOREST SERVICE  
STANDARD STIPULATIONS - LEASE  
(FSM 2820)**

Serial No.: \_\_\_\_\_

Lessee: \_\_\_\_\_

National Forest: \_\_\_\_\_

The lessee is notified and agrees:

All work and any operations authorized under this permit shall be done according to an approved operating plan on file with the \_\_\_\_\_ at \_\_\_\_\_

\_\_\_\_\_ Plans generally require a minimum of 45 days for Forest Service review. Bureau of Land Management must also review and also approve.

Operating plan will contain information the Forest Officer determines reasonable for assessment of (1) public safety, (2) environmental damage, and (3) protection for surface resources. Content of such plans will vary according to location and type of activity and may contain:

1. Steps taken to provide public safety.
2. Location and extent of areas to be occupied during operations.
3. Operation methods including size and type of equipment.
4. Capacity, character, standards of construction and size of all structures and facilities to be built.
5. Location and size of areas where vegetation will be destroyed or soil lay bare.
6. Steps taken to prevent and control soil erosion.
7. Steps taken to prevent water pollution.
8. Character, amount, and time of use of explosives or fire, including safety precautions during their use.
9. Program proposed for rehabilitation and revegetation of disturbed land.

Copies of all permits obtained from State or Federal agencies pertaining to work might be required. Archeological studies, if required, will accompany plan.

The Forest Supervisor or his/her designated agent has authority to temporarily suspend or modify operations in whole or in part due to emergency forest conditions such as high fire danger or other unsafe situations.

The lessee must keep the Mark Twain National Forest authorized Officer (Forest officer) informed about progress of operations to the extent reasonably necessary for assuring public safety. This is especially important with geophysical inventory and testing activities because of their mobile nature. The Forest Officer will alert the lessee to circumstances, which may affect safe and efficient conduct of work activities.

Terms of this lease are considered violated if not done according to these stipulations.

See Special Stipulations & Notifications

- **Attach the following special stipulation to applicable leases:**

### **Special Stipulation for Leasing**

Pursuant to the provisions of the Act of March 4, 1917 (16 USC Sec. 520), Section 402 of the Reorganization Plan No. 3 of July 16, 1946 (60 Stat. 1097, 1099), the Act of August 7, 1947 (30 USC sec. 352), and the National Environmental Policy Act of 1969 (42 USC Sec. 4321 *et seq.*) as said authorities have been or may hereafter be amended, consent to this preference right lease as required by law and regulation (43 CFR Sec. 3501.2-6(a)) is given subject to the express stipulation that the lessee is prohibited from using the surface of the lease area for the construction of tailings ponds or other forms of mine waste disposal, and/or construction of a mill or a main mine shaft without the prior approval of the USDA Forest Service and the proper rendition of an environmental analysis in accordance with the National Environmental Policy Act of 1969, the findings of which shall determine whether or not and under what terms and conditions these facilities may be developed.

## **Special Notifications for Lead Mining Operations**

- **The following special notifications provide guidance and direction for lead mining operations. These notifications will become part of the lease to ensure compliance with the Forest Plan.**

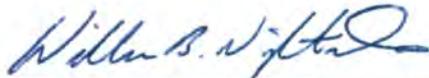
1. All activities authorized on the lease area are subject to the Mark Twain National Forest Management Plan, as amended.
2. Heritage resource surveys are required prior to any earth disturbing activities.

If the lessee decides to provide a heritage resource survey, the lease's archaeological contractor must obtain from the Mark Twain National Forest (MTNF) a Special Use Permit for Heritage Resources Investigations. The permit must be obtained prior to the initiation of any heritage resource investigations on the Forest. All regulations and policies of the MTNF must be followed with respect to the issuance of the Special Use Permit to the lease's archaeological contractor. The archaeological contractor will submit the report on the investigations to the Forest Archaeologist following the conditions of the Special Use Permit, and the MTNF will initiate and carry to completion all regulatory consultation with the Missouri State Preservation Officer as required by the National Historic Preservations Act of 1966, as amended through 1992, and the accompanying regulations as found in 36 CFR 800.

3. To further define and clarify the interaction between the lessee and the authorized Forest Officer that is necessary to protect and restore the surface resources and maintain an acceptable environmental situation within the lease area, the following is required:
  - a. **Site Avoidance:** Archaeological, historic, and architectural sites that are eligible for inclusion in the National Register of Historic Places, as well as sites whose National Register significance has not been evaluated, will be avoided and protected from all project activities. Avoidance of heritage resources will be understood to require the retention of such properties in place and their protection from effects resulting from the undertaking (Memorandum of Understanding between the Mark Twain National Forest and the Missouri State Historic Preservation officer).

- b. Discovery of Heritage Resources during Project Implementation: Pursuant to the provisions found in 36 CFR 800.11, should any previously unrecorded heritage resources be discovered during project implementation, activities that adversely affect that resource will be stopped immediately. A professional archaeologist will evaluate the resource. Consultation will be initiated with the Missouri State Historic Preservation Officer (SHPO), as well as with the Advisory Council on Historic Preservation, if required, to determine appropriate actions for protecting the resource, and for mitigating the adverse effects on the resource. Project activities will not be resumed until the resource is adequately protected and agreed-upon mitigation actions are implemented with SHPO approval.
  - c. Prior approval from the authorized Forest Officer for use of existing roads.
  - d. Prior approval from the authorized Forest Officer for the locations and specifications of all roads to be constructed and for the relocation of existing roads. This approval shall ensure that temporary roads are located so as to limit views into clearings.
  - e. Prior approval from the authorized Forest Officer for all drill site and vent shaft locations and other use areas.
  - f. As required by the authorized Forest Officer, topsoil will be stock piled for reclamation, from drill sites and vent shaft locations.
  - g. As required by the authorized Forest Officer, drill sites will be restored to original contours insofar as possible, topsoil replaced, and the site revegetated.
  - h. As directed by the authorized Forest Officer, all roads, drill, and vent shaft sites will be closed and decommissioned at the close of operations.
  - i. Drilling mud will not be allowed to flow into intermittent or live stream courses, or into sinkholes.
  - j. Trees and shrubs cut or pushed over during construction shall be disposed of as prescribed by the authorized Forest Officer Resource. Management activities must meet, as a minimum, the Visual Quality Objective (VQO).
  - k. As required by the authorized Forest Officer, drill sites will be water barred and ditched to provide proper drainage into filter strips.
  - l. Drilling is prohibited within buffer zones associated with perennial streams, springs, or wetlands. On slopes greater than 12%, drilling is prohibited within 50 feet of the stream bank plus four times the percent slope. The location of floodplains, filter strips, and buffer zones for riparian areas will be determined by field investigation as needed.
  - m. Any scrap material or litter will be removed from the site.
  - n. Spot surfacing such as gravel, planking or mats will be allowed and removed if the Authorized Officer deems necessary.
4. There are exclusion and/or constraint areas within the lease area that require special considerations and operation procedures to protect the unique values for which each has been established. The lessee must contact the authorized Forest Officer to determine the specific locations and requirements of each such area that will be affected. These requirements must then be incorporated in the Operation Plan required in Section 2(c) of these leases.

5. Air vent facilities constructed within the lease areas shall have sound barriers, deflectors, or other such devices necessary to minimize adverse impact on the surface environment, including measures to protect wildlife from the downdraft of vent shafts. The motor/fan may be above ground for a short period of time, after which the unit will be at underground mine level. Surface discharge will be vertical; Vent shafts will be grouted, as needed, to prevent excessive leakage of groundwater into the mine.
6. Surface disturbing activities must comply with the Forest Plan regarding endangered and/or threatened species habitat, and with the most recent Biological Opinion on the impacts of MTNF management activities issued by the U.S. Fish and Wildlife Service.
7. Hydrological assessments will be made on a lease-by-lease basis based upon the situation within the lease area. The authorized Forest Officer will review the situation with the company prior to the assessment.
8. All temporary roads, drill sites, and vent shafts shall meet the Visual Quality Objectives designated for the area by the Forest Plan.
9. Following the completion of all drilling, the drill casing shall be removed and down-hole wood and cement plugs shall be placed in the drill holes. Plugging procedures outlined in the Missouri State Code of Regulations (10 CSR 20-7.010) shall be followed. Separate plugs shall be set at the base of the Davis Formation and at the base of the overburden to separate and isolate groundwater aquifers and prevent down-hole contamination.
10. These notifications are subject to changes/amendments based on operations.



5/28/15

Authorized Representative

Date