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method must be approved by the Department. The upper three feet shall be filled with suitable soil materials.

- 5. Temporary plugging and capping. If a delay in plugging and capping is approved by the Department, the hole shall be securely capped with a tapered concrete plug or suitable equivalent that is of sufficient diameter to prevent it from slipping below the surface. The temporarily plugged and capped hole shall be marked with a sturdy steel fence post with a minimum height of forty-two inches above the ground surface.

◆ **Reclamation Surety Requirements**

~~Reclamation surety is required for every Notice of Intent to Conduct Exploration. The surety amount is based on the costs of plugging all proposed test holes and the estimated reclamation cost. A statewide financial surety, in the amount of \$20,000, may be provided as surety for all the exploration activities of a single operator.~~

OTHER AGENCY CONTACTS

State of South Dakota
 Department of Environment and Natural Resources
 523 E. Capitol
 Pierre, South Dakota 57501
 605/773-3151

Department of Environment and Natural Resources
Office of Minerals and Mining
Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181
Telephone: (605) 773-4201

**NOTICE OF INTENT TO CONDUCT
MINERAL EXPLORATION OPERATION
(Excluding Uranium)**

Pursuant to SDCL 45-6C

Name of Operator and Address of Operator's
Principle Place of Business:

Name and Address of Operator's Resident
Agent in South Dakota:

Telephone Number:

Telephone Number:

Brief Description of the Type of Exploration to be Conducted. Include a list of all minerals to be explored and a description of methods (e.g. drill rig type, proposed depth for each test hole, length of access road construction, and/or other).

Will the Operator Conduct Uranium Exploration? Yes No If Yes, a Permit Pursuant to SDCL 45-6D Must be Obtained.

Date Exploration Will Commence:

Legal Description of Land to be Explored by Section, Township, and Range:

County:

What Legal Authority Does the Operator Have to Conduct Exploration on the Above-Described Land?

Deed Lease US Forest Service Permit Other _____
 Pending US Forest Service Permit

Attach Copy if Available

INSTRUCTIONS (Reference SDCL 45-6C):

This Notice of Intent Must be Accompanied by:

1. A Plan of Reclamation Pursuant to Section 8.
2. A Topographic Map Pursuant to Section 9.
3. A Fee of \$250 Pursuant to Section 17.
4. A Surety Bond in an Amount to be Determined by the Department Pursuant to Section 19.
5. Any Written Landowner Consultations Giving Alternative Preferences for the Reclamation of the Affected Land Pursuant to Section 16.

Applicant hereby affirms that the mineral exploration will be conducted pursuant and subject to the provisions of SDCL 45-6C, and all regulations promulgated thereunder, that he will grant access to the Board of Minerals and Environment or its agents to the area under notice from the date of the notice and thereafter for such a time to assure compliance with the provisions of SDCL 45-6C.

Signature _____

Date _____

Title _____

STATE OF _____

COUNTY OF _____

On this _____ day of _____, 19_____, before me personally

appeared _____ who acknowledged himself to be

the _____ (Title) for _____ (Operator)

and that he is authorized to execute this Notice for the purposes contained therein.

Notary Public _____

My Commission Expires: _____

SEAL

FOR DEPARTMENT USE ONLY

Date Approved: _____

Bond Amount: _____

Permit Number: _____

Department of Environment and Natural Resources
Office of Minerals and Mining
Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181
Telephone: (605) 773-4201

EXPLORATION RECLAMATION PLAN

Pursuant to SDCL 45-6C-8 and 45-6D-9

In preparing this Reclamation Plan, please address each item in detail, following SDCL 45-6C-8 and 45-6D-9. Also, refer to the reclamation standards outlined under SDCL 45-6C-27 through 45-6C-34, SDCL 45-6D-33 through 45-6D-39, and the state's hole plugging regulations as detailed under ARSD 74:11.

1.) Describe the type of reclamation the operator proposes to achieve in the reclamation of the affected land.

2.) Provide a proposed timetable for seeding and replanting indicating when and how the reclamation plan will be implemented. Such timetable shall be developed after consulting with the County District Conservationist as to the nature of the soils and native vegetation in the area of the proposed operation. These recommendations shall be followed, if any are provided, and copies of all correspondence shall be provided to the Department.

3.) Describe how the reclamation plan will rehabilitate the affected land.

4.) Describe the anticipated temporary and permanent plugging and capping procedures to be used (refer to SDCL 45-6C-28 through 45-6C-30, SDCL 45-6D-33 through 45-6D-35, and the state's hole plugging regulations as detailed under ARSD 74:11).

5.) Provide the estimated cost of: a) implementing and completing the proposed reclamation and; b) the estimated cost of plugging and sealing each test hole.

Operator Signature: _____

Title: _____ Date: _____



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3181

RE: CERTIFICATION OF APPLICANT FORM

During the 1991 legislative session, SDCL 1-40-27 was passed and became effective 01 July 1991. SDCL 1-40-27 states "... All applications filed pursuant to Titles 34A and 45 shall include a certification, sworn to under oath and signed by the applicant, that he is not disqualified by reason of this section from obtaining a permit..".

Applications and renewals reviewed by the Office of Minerals and Mining that require the Certification of Applicant Form include:

- Mine Licenses, SDCL 45-6;
- Air Quality Permits to Operate, SDCL 34A, ARSD 74:26;
- Exploration Notices of Intent, SDCL 45-6C;
- Uranium Exploration Permits, SDCL 45-6D;
- Mine Permit Applications, SDCL 45-6B, ARSD 74:29;
- Amendments to Mine Permits, SDCL 45-6B;
- Technical Revisions to Mine Permits, ARSD 74:29; and
- Oil and Gas Permits, Approvals and Orders, SDCL 45-9, ARSD 74:10.

In accordance with SDCL 1-40-27, the enclosed Certification of Applicant Form was developed to facilitate the processing of the application or renewal.

You will need to sign this form in the presence of a Notary and return the form along with the application and fee, if applicable. Failure to return the signed Certification of Applicant Form shall result in the application or renewal being considered incomplete.

If you have any questions please contact our office at (605) 773-4201.

CHECKLIST FOR EXPLORATION NOTICE OF INTENT (EXNI-___)

45-6C-7(1) - Operator: _____

45-6C-7(2) - Address: _____

- Phone Number: _____

45-6C-7(3) - Resident Agent: _____

- Resident Agent's Address: _____

- Resident Agent's Phone Number: _____

- Confirmation with Secretary of State: Date: _____ By: _____

- Authorization Letter for Permit Agent. Date Received: _____

45-6C-7(5) - Type of Exploration: _____

45-6C-7(5) - Minerals to be Explored: _____

45-6C-7(6) - Legal Description of Permit Area: _____

45-6C-7(6) - Affected County: _____

45-6C-6(1) - Complete Notice of Intent Form. Date Received: _____
& 45-6C-7

45-6C-6(2) - Complete Reclamation Plan. Date Received: _____
& 45-6C-8

45-6C-6(3) - Topographic Map Showing Water Sources and Hole Locations. Date Received: _____
& 45-6C-9

45-6C-6(4) - \$250 Fee. Date Received: _____

45-6C-19 - Surety Amount: _____ Date Received: _____
& 45-6C-20 _____

4 2-19 - Pre-Inspection of Permit Area. Inspector/Date: _____

45-6C-16 - Alternative Written Landowner Preference: _____
- Copy of Approved USFS Operating Plan. Date Received: _____
- Summary: _____

45-6C-10 - GF&P Notification. Date: _____ Response. Date: _____
- GF&P Restrictions: _____

45-6C-11 - DECA Notification. Date: _____ Response. Date: _____
- DECA Restrictions: _____

45-6C-8 - Conservation District Notification. Date: _____ Response. Date: _____
- Summary: _____

- DENR Hydro Memo: _____

45-6C-12 - DENR Restrictions: _____

45-6C-15 - Newspaper Used for Advertisement: _____

- Date Sent: _____

- Date to be Published: _____ Affidavit Received: _____

45-6C-15 - Filing of EXNI and Restrictions with County Commissioners:

- Initial Letter Sent: _____

- Final Letter Sent: _____

45-6C-12 - DENR Restriction Letter Sent to Operator: _____

- DENR Restriction Letter Sent to USFS: _____

Department of Environment and Natural Resources
Office of Minerals and Mining
Joe Foss Building
523 East Capitol
Pierre, SD 57501-3181
Telephone: (605) 773-4201

CLOSING REPORT - MINERAL EXPLORATION

Operator's Name _____

Permit Number _____

Permit Area Legal Description _____

County _____

Activity Type: Seismic Shot Holes Bulk Sampling
 Rotary Test Holes Core Test Holes
 Other _____

A) Drilling Summary

1) Total Number of Holes Drilled _____

2) Number of Holes as to Type Core Non-Core

3) Minimum Depth _____ Maximum Depth _____

B) Trenches, Pits, Adits, or Other Mine Excavations

1) Total Number of Trenches or Pits Dug _____

2) Total Number of Trenches or Pits Backfilled _____

3) Total Number of Adits or Other Mine Excavations _____

4) Total Number of Adits or Other Mine Excavations
 Sealed or Reclaimed _____

C) Hole Plugging

1) Total Number of Holes Permanently Plugged and
 Plugging Material Used _____

2) Total Number of Holes Temporarily Plugged _____

D) Aquifer Penetrations

1) Total number of Holes Penetrating Aquifers _____

2) Minimum Depth _____ Maximum Depth _____

3) Attach a clear and complete report identifying with respect to the above:

- a) The location of any test hole which has penetrated an aquifer (to quarter-quarter section)
- b) The depth of the aquifer
- c) The method used to plug each such test hole (See SDCL 45-6C-35)

E) **Map**

Submit a clear and legible map (preferably 1:24,000 USGS) showing sufficient information to allow the Department to locate all test holes or other exploration sites (test trenches, adit openings, etc.) involved in the project (See SDCL 45-6C-35).

F) **Names and Addresses of All Surface Owners or Lessees**

Attach a list of the names and addresses of all surface owners or lessees of the affected land, including USFS, BLM, or other land management agency, if other than the mineral owner (SDCL 45-6C-23).

I hereby certify that I am authorized to sign this form on behalf of the above-named operator and that the information contained herein and on any attached pages is true and correct.

Signature _____

Date _____

Title _____

Subscribed and sworn to before me this _____ day of _____, 19 _____

Notary Public _____

My Commission Expires: _____

SEAL

Department of Environment and Natural Resources
Office of Minerals and Mining
Joe Foss Building
723 East Capitol
Pierre, SD 57501-3181
Telephone: (605) 773-4201

STATE OF SOUTH DAKOTA
BEFORE THE SECRETARY OF
THE DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

IN THE MATTER OF THE)
APPLICATION OF _____)
_____))
STATE OF _____)
COUNTY OF _____) SS

CERTIFICATION OF
APPLICANT

I, _____, the applicant in the above matter after being duly sworn upon oath hereby certify the following information in regard to this application:

South Dakota Codified Laws Section 1-40-27 provides:

"The secretary [of environment and natural resources] may reject an application for any permit filed pursuant to Titles 34A or 45, upon making a specific finding that:

(1) The applicant is unsuited or unqualified to perform the obligations of a permit holder based upon a finding that the applicant, any officer, director, partner, or resident manager of the facility for which application has been made:

- (a) Has intentionally misrepresented a material fact in applying for a permit;*
- (b) Has been convicted of a felony or other crime of moral turpitude;*
- (c) Has habitually and intentionally violated environmental laws of any state or the United States which have caused significant and material environmental damage;*
- (d) Has had any permit revoked under the environmental laws of any state or the United States;*
- (e) Has otherwise demonstrated through clear and convincing evidence of previous actions that the applicant lacks the necessary good character and competency to reliably carry out the obligations imposed by law upon the permit holder; or*

(2) The application substantially duplicates an application by the same applicant denied by the board within the past five years which denial has not been reversed by a court of competent jurisdiction. Nothing in this subdivision may be construed to prohibit an applicant from submitting a new application for a permit previously denied if the new application represents a good faith attempt by the applicant to correct the deficiencies that served as the basis for the board's denial in the original application.

All applications filed pursuant to Titles 34A and 45 shall include a certification, sworn to under oath and signed by the applicant, that he is not disqualified by reason of this section from obtaining a permit. In the absence of evidence to the contrary, that certification shall constitute a prima facie showing of the suitability and qualification of the applicant. If at any point in the application review, recommendation, or hearing process, the secretary finds the applicant has made any material misrepresentation of fact in regard to this certification, consideration of the application may be suspended and the application may be rejected as provided for under this section.

Applications rejected pursuant to this section constitute final agency action upon that application and may be appealed to circuit court as provided for under chapter 1-26."

Pursuant to SDCL 1-40-27, I certify that I have read the forgoing provision of state law, and that I am not disqualified by reason of that provision from obtaining the permit for which application has been made.

Dated this _____, day of _____, 19 ____.

Applicant

Subscribed and sworn before me this _____ day of _____, 19 ____.

Notary Public

My commission expires: _____

(SEAL)

**PLEASE ATTACH SHEET DISCLOSING ALL FACTS PERTAINING TO
SDCL 1-40-27 (1) (a) THROUGH (e).
ALL VIOLATIONS MUST BE DISCLOSED, BUT WILL NOT
AUTOMATICALLY RESULT IN THE REJECTION OF AN APPLICATION.**

STATE OF SOUTH DAKOTA
U.S. SECURITIES OR CASH

1. This Agreement and Assignment is entered into by the South Dakota Board of Minerals and Environment, hereinafter referred to as "State", and _____, hereinafter referred to as "Assignor", following Assignor's procurement of a Mining License _____, Mining/Milling Permit _____, Exploration Notice of Intent _____, Uranium Exploration Permit _____, permit/license number _____.
2. For value received, _____, Assignor, does hereby assign, transfer, and set over to the State, in lieu of posting a surety bond, the sum of \$ _____ in cash or United States Government Securities hereafter listed.
3. The Assignor makes this assignment pursuant to the requirements of SDCL Chapter 45-6, 45-6B, 45-6C, and 45-6D, as applicable.
4. The United States Securities hereby pledged are described as follows:
- | Size of Security | Number | Date | Amount |
|------------------|--------|------|--------|
|------------------|--------|------|--------|
- The cash deposit hereby pledged is described as follows:
- | Date | Amount | Number | Bank |
|------|--------|--------|------|
|------|--------|--------|------|
5. The United States Securities or cash deposit shall be held by the State of South Dakota during the term of this assignment.
6. The Assignor is entitled to any earnings or interest upon the cash proceeds after the State has surrendered the United States Securities. The Assignor is entitled to any earnings or interest upon the cash proceeds of a cash deposit while the cash deposit is being held by the State.
7. The State may at any time after the Assignor fails to fully comply with all the requirements of the permit/license, reclamation plan, operating plan, SDCL 45-6, 45-6B, 45-6C, and 45-6D, as applicable, and the Rules and Regulations adopted thereunder, and after giving written notice to the Assignor, surrender the United States Securities to any bank in exchange for money, or proceed against the cash deposit.
8. The United States Securities or cash deposit may be released by the State when the Assignor's obligations under the permit/license, reclamation plan, operating plan, SDCL 45-6, 45-6B, 45-6C, and 45-6D, as applicable, and the Rules and Regulations adopted thereunder are fully performed, or when the Assignor is succeeded by another operator who has a permit/license and bond involving the same affected land covered by the Assignor's permit/license.
9. The Assignor under this agreement hereby acknowledges that under the provisions of SDCL 34A-10-2.2 and 34A-10-2.3, all right and title in any bond or other security shall be in the state until such time as the board, by order releases the security. Such bond or other security does not constitute an asset of the person required to provide it, and may not be canceled, assigned, revoked, disbursed, replaced or allowed to terminate without board approval. The bond or security may not be assigned of the benefit of creditors, attached, garnished, levied or executed on, or subject to process issued from any court except for the purpose of enabling the state to effectuate environmental cleanup or remediation.
10. Signed and dated this _____ day of _____, 19_____.

Assignor's Signature _____

Address _____

STATE ACCEPTANCE

11. The State of South Dakota, Board of Minerals and Environment, hereby accepts the foregoing assignment of the United States Securities or cash, as the case may be, in the amount of \$ _____ this _____ day of _____, 19_____.

Chairman, South Dakota Board of Minerals and Environment/
Secretary, Department of Environment and Natural Resources

STATE OF SOUTH DAKOTA
SURETY BOND FORM

Bond Number _____ Permit/License Number _____

Mining License _____ Mining/Milling Permit _____ Exploration Notice of Intent _____ Uranium Exploration Permit _____

KNOW ALL MEN BY THESE PRESENTS, That we (I) _____
as Principal, and _____ a

corporation organized and existing under the laws of the State of _____ and duly authorized to transact business in the State of South Dakota as surety, are held and firmly bound unto the State of South Dakota, acting through the South Dakota Board of Minerals and Environment, in the sum of _____ (\$ _____) dollars, for payment of which sum, well and truly to be made, we bind ourselves, and each of our legal representatives, heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has received a Permit/License from the South Dakota Board of Minerals and Environment to conduct _____ on the following described premises, to wit:

NOW, THEREFORE, The conditions of this obligation are such that if the above bounded Principal shall, in conducting the above described operations faithfully perform the requirements of the permit/license, reclamation plan, operating plan, SDCL Chapter 45-6, 45-6B, 45-6C, and 45-6D relating to mining, exploration, and uranium exploration, as applicable, and the Rules and Regulations adopted pursuant thereto, then this obligation shall be exonerated and discharged and become null and void; otherwise it will remain in full force and effect.

PROVIDED, However, the Surety shall not be liable under this bond for an amount greater in the aggregate than the sum designated in the first paragraph hereof and provided by SDCL 56-2-12.

The Principal and Surety under this agreement hereby acknowledge that under the provisions of SDCL 34A-10-2.2 and 34A-10-2.3, all right and title in any bond or other security shall be in the state until such time as the board, by order releases the security. Such bond or other security does not constitute an asset of the person required to provide it, and may not be canceled, assigned, revoked, disbursed, replaced or allowed to terminate without board approval. The bond or security may not be assigned of the benefit of creditors, attached, garnished, levied or executed on, or subject to process issued from any court except for the purpose of enabling the state to effectuate environmental cleanup or remediation.

Signed, sealed and dated this _____ day of _____, 19 _____

Principal's Signature _____ Title _____ Principal's Mailing Address _____

Surety Company _____ By _____

Surety's Street Address or Box Number _____ City, State, and Zip Code _____

(SURETY'S SEAL)

STATE ACCEPTANCE

Bond Approved this _____ day of _____, 19 _____

Chairman, South Dakota Board of Minerals and Environment/
Secretary, Department of Environment and Natural Resources

Department of Environment and Natural Resources
Minerals and Mining Program
Joe Foss Building
23 East Capitol
Pierre, South Dakota 57501-3181
Telephone: (605) 773-4201

**TRANSFER OF EXPLORATION
NOTICE OF INTENT (EXNI)**

Pursuant to SDCL 45-6C-53

EXNI No. _____

Present Operator:

General Office Address:

Local Address:

Telephone:

Telephone:

New Operator:

General Office Address:

Local Address:

Telephone:

Telephone:

Name and Address of New Operator's
Resident Agent (if out-of-state corporation):

Legal Description of Affected Area Permitted by this EXNI:

County:

INSTRUCTIONS

This Transfer Form Must be Accompanied by:

1. A fee of \$250 pursuant to SDCL 45-6C-53.
2. A replacement surety.

I, _____, do

(Signature of Present Operator)

hereby agree to the transfer of exploration permit EXNI

to _____

(New Operator)

I understand that this transfer releases

_____ of all liability with regard to reclamation of the affected area and that any surety submitted to cover reclamation will be released only upon approval of the transfer by the Board of Minerals and Environment.

Date: _____

STATE OF _____

COUNTY OF _____

On this _____ day of _____,

19_____, before me personally appeared

_____ who acknowledged that he is authorized to execute this transfer of exploration permit.

Notary Public

My Commission Expires: _____

SEAL

I, _____, do hereby

(Signature of New Operator)

agree to the transfer of exploration permit EXNI

from _____

(Present Operator)

I understand that, in agreeing to this transfer,

_____ is assuming all responsibility and liability for this EXNI and reclamation of the affected area as specified in the EXNI and that a replacement surety must be provided prior to the transfer. It is also understood that only exploration work authorized under this EXNI may be conducted and that all terms and conditions established in this EXNI shall be followed.

Date: _____

STATE OF _____

COUNTY OF _____

On this _____ day of _____,

19_____, before me personally appeared

_____ who acknowledged that he is authorized to accept the transfer of this exploration permit.

Notary Public

My Commission Expires: _____

SEAL

FOR DEPARTMENT USE ONLY

DATE APPROVED: BOND AMOUNT: EXNI NUMBER:

CHAIRMAN, BOARD OF MINERALS & ENVIRONMENT

Operator's Name _____

Permit Number _____

Permit Area Legal Description _____

_____ County _____

Activity Type: _____ Seismic Shot Holes _____ Bulk Sampling
_____ Rotary Test Holes _____ Core Test Holes
_____ Other _____

A) Drilling Summary

- 1) Total Number of Holes Drilled _____
- 2) Number of Holes as to Type _____ Core _____ Non-Core
- 3) Minimum Depth _____ Maximum Depth _____

B) Trenches, Pits, Adits, or Other Mine Excavations

- 1) Total Number of Trenches or Pits Dug _____
- 2) Total Number of Trenches or Pits Backfilled _____
- 3) Total Number of Adits or Other Mine Excavations _____
- 4) Total Number of Adits or Other Mine Excavations Sealed or Reclaimed _____

C) Hole Plugging

- 1) Total Number of Holes Permanently Plugged and Plugging Material Used _____
- 2) Total Number of Holes Temporarily Plugged _____

D) Aquifer Penetrations

- 1) Total number of Holes Penetrating Aquifers _____
- 2) Minimum Depth _____ Maximum Depth _____
- 3) Attach a clear and complete report identifying with respect to the above:
 - a) The location of any test hole which has penetrated an aquifer (to quarter-quarter section)
 - b) The depth of the aquifer
 - c) The method used to plug each such test hole (See SDCL 45-6C-35)

E) **Map**

Submit a clear and legible map (preferably 1:24,000 USGS) showing sufficient information to allow the Department to locate all test holes or other exploration sites (test trenches, adit openings, etc.) involved in the project (See SDCL 45-6C-35).

F) **Names and Addresses of All Surface Owners or Lessees**

Attach a list of the names and addresses of all surface owners or lessees of the affected land, including USFS, BLM, or other land management agency, if other than the mineral owner (SDCL 45-6C-23).

I hereby certify that I am authorized to sign this form on behalf of the above-named operator and that the information contained herein and on any attached pages is true and correct.

Signature

Date

Title

Subscribed and sworn to before me this _____ day of _____, 19 _____

Notary Public

My Commission Expires: _____

SEAL

Department of Environment and Natural Resources
Minerals and Mining Program
Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181
Telephone: (605) 773-4201

EXPLORATION NOTICE OF INTENT
ANNUAL REPORT

Operator _____

EXNI Number _____

(Note: SDCL 45-6C-52 allows an operator to submit either a single Annual Report for multiple Exploration Notices of Intent or the operator may submit separate Annual Reports for each EXNI.)

Legal Description _____

County _____

INSTRUCTIONS:

- A) All blanks must be completed. Please be as accurate as possible.
- B) Attach a map with a scale of 1:24,000 or larger (e.g. topographic maps). The map must show the locations of drill holes and shot holes completed and/or plugged, trenches, and bulk sampling sites, show areas disturbed, areas reclaimed, and the acreage of each. More than one EXNI is permitted to be shown on one map, however, please make sure that each EXNI number is indicated on the map. If no exploration activity was conducted at this site since last January 1, no map is required.
- C) **SIGN, DATE, and RETURN** this form, the map, and a description of the coming year's activities to be conducted under this Exploration Notice of Intent to the Minerals & Mining Program prior to January 1.

1) Total number of drill holes, trenches, bulk sampling sites, or shot holes allowed by this Notice:

Drill Holes _____

Trenches _____

Bulk Sampling Sites _____

Shot Holes _____

2) Total number of drill holes, trenches, bulk sampling sites or shot holes completed since January 1 of this year:

Drill Holes _____

Trenches _____

Bulk Sampling Sites _____

Shot Holes _____

- 3) Total acres of surface disturbance created as a result of conducting exploration activities under this Notice:

- 4) Total number of drill or shot holes plugged and reclaimed since last January 1 including the method to plug each hole:
Drill Holes _____
Shot Holes _____
Plugging Method _____
- 5) Total acres of surface disturbance reclaimed since last January 1:

- 6) Total acres of surface disturbance remaining to be reclaimed:

- 7) Total number of drill or shot holes remaining to be plugged and reclaimed:

- 8) Describe any activities that will be conducted under this Exploration Notice of Intent in the coming year. Please use additional sheets of paper if necessary.

Signature: _____ Title: _____
Mailing Address: _____ Phone: _____
Date: _____

(Please make a copy of this report for your records)

TENNESSEE

RESPONSIBLE AGENCY

Tennessee Department of Environment and Conservation
Division of Geology, Oil and Gas
401 Church Street, 13th Floor L&C Tower
Nashville, Tennessee 37243-0445

Telephone: 615/532-0166 or 615/532-1504 Fax: 615/532-1517

Contact: Mike Burton or Mike Hoyal

REGULATORY AUTHORITY

1. The Oil and Gas Laws in Tennessee and Mineral Test Hole Regulatory Act, Title 60, Chapter 1, Part 5, Mineral Test Hole Regulatory Act
2. The Rules of Tennessee State Mineral Test Hole Regulatory Board

PERMITTING REQUIREMENTS

◆ **General Requirements**

A drilling permit is required for any mineral test hole in excess of 100 feet for exploratory purposes. However, this excludes auger drilling in surficial or otherwise unconsolidated material, drilling in conjunction with mining or quarrying operations, water, structural foundations, and seismic surveys.

A blanket permit may be obtained to cover numerous test holes being drilled in a drilling program in an area approximately the size of a county.

A bond is required to be in force from the time a drilling permit is granted until the well is abandoned. This bond will be released upon proper plugging of all holes and reclamation covered by the bond.

◆ **Specific Requirements**

1. ~~An application for a Permit to Drill~~ (copy attached) must be submitted to the Department of Environment and Conservation.

Information required:

- a. Name, address, and phone number of the operator, lessor and contractor;
 - b. Test hole coordinates;
 - c. Description of drilling and casing program; and
 - d. Location plat.
2. ~~Permit fee of \$10.~~
 3. ~~Surety bond.~~
 4. ~~Drill hole plugging.~~
 5. ~~File drill hole plugging and abandonment report~~ within 90 days of completion of work.

◆ **Reclamation Standards**

At a well site, measures shall be taken to prevent or minimize soil erosion and pollution of surface waters. Such measures shall include sediment ponds, berms, diversion ditches, hay bales, and other measures designed to prevent erosion and discharge of pollutants from the well sites.

Access roads shall be constructed in such a manner as to reduce erosion to a practical minimum and subject to all the reclamation requirements below unless the landowner establishes by sworn affidavit that a road will continue to be used for other legitimate purposes and maintained in usable condition, which condition reduces erosion to a practical minimum, by the surface owner.

Reclamation of all disturbed areas shall be accomplished in the following manner:

1. The vegetative cover must be diverse, effective, and permanent. It must be capable of long-term stabilization of the soil and must not impede natural vegetative succession or interfere with surrounding vegetative cover.
2. The permanent reclamation plant species must be capable of self-regeneration and must have the same seasonal characteristics of growth as the original vegetation. A different plant species not having these characteristics may be used to establish a quick-growing, temporary cover to stabilize the disturbed area.

3. Suitable mulch and soil nutrients shall be applied where necessary to stabilize a regraded area and to establish the vegetative cover.
4. Except for active work areas, a temporary vegetative cover shall be planted on all disturbed areas within thirty days of the initial disturbance.
5. Within thirty days of the plugging of a well, the permanent vegetative cover shall be planted on all disturbed areas.
6. Revegetation success shall not be determined until after two successfully completed growing seasons have occurred.
7. Revegetation shall be considered successful if a ground cover of at least 90 percent herbaceous and/or woody species is achieved, so long as at least 80 percent are perennial species.

◆ **Drill Hole Plugging Requirements**

Drill hole plugging requirements differ in each area of the state depending on the type of formations and deposits encountered. Drill holes shall be plugged in accordance with the following procedures:

1. Middle Tennessee (in areas where exploration may encounter gas):
 - a. Set NX casing (3 1/2 OD) at least six feet into bedrock. Fill the hole with cement, drive in casing, and let it set up and then drill out the cement. Install gate valve at surface in order to control well if gas is encountered.
2. Middle Tennessee (in fresh water zones):
 - a. Place an effective plug at the top of Knox and one bag of cement across unconformity (approximately 40 feet plug); and
 - b. Come uphole to a depth of approximately 200 feet below adjacent surface terrain. Place effective plugs every 60 feet followed by cement all the way to the surface.
3. Cumberland Plateau:
 - a. Shallow drill holes less than 400 feet deep or less than 1000 feet from the outcrop not encountering underground water shall be plugged by filling or covering the hole adequately with surface material as a safety precaution; and
 - b. Drill holes more than 400 feet deep or more than 1000 feet from the outcrop shall set effective plugs 25 feet below each coal seam encountered and fill with cement to 25 feet above each coal seam encountered. Sufficient plugs must

efficiently be placed in number and properly located as to prevent commingling of oil, gas, salt water, and fresh water from one zone to another.

4. East Tennessee:

- a. Use six to nine bags of cement poured into the bottom of a drill hole and extending upward at a rate of 60 feet per bag of cement up to the chert matrix layer; and
- b. Use one bag of cement to case the top of the drill hole.

Work performed under the permit must be reported in the Plug and Abandon Report (copy attached) to the Division of Geology within 90 days after completing the work unless permission has been obtained from the Division of Geology to keep a well open.

◆ **Reclamation Surety Requirements**

~~A bond in the amount of \$1000 is required~~ to be in force for a well from the time a drilling permit is granted until the well is abandoned.

In lieu of an individual bond, a blanket bond in the amount of \$10,000 covering all wells drilled or to be drilled in an extensive drilling program may be obtained.

A deposit in cash or certified check shall serve in lieu of either of the above bonds.

Upon satisfactory completion of regrading and revegetation of all disturbed areas and access roads, one third of the reclamation bond will be released.

After plugging, and upon final reclamation and satisfactory survival of the vegetation through two growing seasons, the remainder of the reclamation bond will be released.

OTHER AGENCY CONTACTS

Tennessee Department of Health and Environment
344 Cordell Hull Building
Nashville, Tennessee 37219
615/741-3657

Tennessee Department of Environment and Conservation
Division of Water Pollution Control
Mining Section
2700 Middlebrook Pike, Suite 220
Knoxville, TN 37921
615/594-6035 Carl Tenut
615/532-0662 (Nashville office)

IMPORTANT: See Reverse Side

CONFIDENTIAL

TEST HOLE PERMIT NO. _____

Form MAP

STATE OF TENNESSEE
STATE MINERAL TEST HOLE BOARD
401 CHURCH STREET, 13TH FLOOR L & C TOWER
NASHVILLE, TENNESSEE 37243-0445

APPLICATION FOR PERMIT TO DRILL

SINGLE TEST HOLE BLANKET PERMIT

DO NOT WRITE IN THIS SPACE

Fee _____
Approval Date _____
Approved by _____
Plat _____
Bond _____

1. Test Hole Operator _____ Telephone: _____
2. Permanent address: _____
3. Address for mailing permit: _____
4. Farm owner (lessor) or unit: _____ Well no: _____
5. Name of contractor: _____
6. Address: _____
7. Well number _____
8. County: _____ 7 1/2' Topo. Quad. _____
9. For Single Test Hole:
 - a. Carter Coordinates:
 _____ FNL, FSL _____ FEL, FWL Sec. _____ Carter Quad. _____ N.S _____ E, W _____
 - b. Tennessee Coordinates: _____ N. _____ E _____
10. For Blanket Permit see plat.
11. To be drilled by: Diamond _____ Other _____ Combination _____
12. Single well bond: Cash _____ Surety _____ Blanket Bond: Cash _____ Surety _____
13. Is applicant at this time in violation of any requirements? Yes No
14. Description of casing program: _____

15. Will this well penetrate Pennsylvanian strata? Yes No
16. Distance from nearest producing or drilling well (if less than 3000 ft.) _____

(NOTE: If less than 3000 ft., spacing requirements of the State Oil and Gas Board may apply.)

Form MAP-1

MINERALS EXPLORATION COALITION

6/98

IMPORTANT: Each operator is expected to be familiar with the State of Tennessee Mineral Test Hole Regulatory Act. In the event any assistance is required, write the Supervisor, State Mineral Test Hole Board, Room G-5, State Office Building, Nashville, Tennessee 37219, or call 741-2726 or 741-2676 and ask for the State Mineral Test Hole Supervisor or his assistant.

NOTICE

The Mineral Test Hole Board requires that application for permits shall be sworn to and properly acknowledged before a Notary Public or other officer authorized to take oath, that the permittee has complied with all of the terms and conditions of the rules and regulations promulgated by the Mineral Test Hole Board as well as Title 58, Tennessee Code Annotated.

Signature of Applicant

AFFIDAVIT

STATE OF _____

COUNTY OF _____

Before me, the undersigned authority, on this day personally appeared _____, known to me to be the person whose name is subscribed to the above application for permit, who being duly sworn on oath, states that he executed the above instrument and that the statements made in said application are true and correct.

Subscribed and sworn to before me this _____ day of _____, 19 _____.

My commission expires _____

NOTICE: Permits are not in any way to be construed as a certification by the State of Tennessee that any property interest in the premises covered by a permit is vested in the permittee; it is issued solely under the regulatory powers vested in the Tennessee Mineral Test Hole Board under the provisions of Title 58 of the Tennessee Code Annotated for the purposes recited in said code section and the rules and regulations promulgated by the Board pursuant to said code section.

STATE OF TENNESSEE
 STATE MINERAL TEST HOLE BOARD
 13TH FL, L & C TOWER
 401 CHURCH STREET
 NASHVILLE, TN 37243-0445

Form M-P + A
 CN-0116

WELL PERMIT NO. _____

PLUG AND ABANDON REPORT

Operator _____
 Address _____

Location of Well or Wells Plugged _____
 County _____

Application to drill was filed in name of _____
 Has this well or these wells ever produced oil or gas? _____
 Date Plugged _____

Name of each formation containing oil or gas. Indicate which formation open to well-bore at time of plugging.	Fluid content of each formation if known.	Size, kind & depth of plugs used. Indicate zones squeeze cemented, giving amount cement.

Was well plugged according to regulations? _____
 Indicate deepest formation containing fresh water if known. _____

In addition to other information required on this form, if this well was plugged back for use as a fresh water well, give all pertinent details of plugging operations to base of fresh water sand, perforated interval to fresh water sand, name and address of surface owner, and attach letter from surface owner authorizing completion of this well as a water well and agreeing to assume full liability for any subsequent plugging which might be required.

Use reverse side for additional detail.
 File this form in duplicate with the Supervisor, State of Tennessee Mineral Test Hole Board.

Executed this the _____ day of _____ 19____.
 State of _____
 County of _____

 Signature of Affiant

Before me, the undersigned authority, on this day personally appeared _____ known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states, that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. And affiant further states that he is familiar with the Rules and Regulations of the State of Tennessee Mineral Test Hole Board and that he has complied with said Rules and Regulations.

Subscribed and sworn to before me this _____ day of _____ 19____.

SEAL

 My commission expires _____

 Notary Public in and for _____

 County, _____

STATE OF TENNESSEE
STATE MINERAL TEST HOLE BOARD
401 CHURCH STREET, 6TH FLOOR L & C TOWER
NASHVILLE, TENNESSEE 37243-1549

CASH BOND

Covering A Mineral Test Hole To Be Drilled, Deepened, or Re-Opened

KNOW ALL MEN BY THESE PRESENTS:

That (I) (we) _____
_____, as principal

(am) (are) held and firmly bound unto the State Mineral Test Hole Board, State of Tennessee, in the penal sum of One Thousand Dollars (\$1,000), lawful money of the United States, for which payment, well and truly made, (I) (we) jointly and severally bind (myself) (ourselves), (my) (our) personal representatives, (my) (our) heirs, executors, administrators or successors, and assigns.

The condition of this obligation is such that whereas the above bounden principal proposes to:

Drill () Deepen () Re-Open ()

a mineral test hole in this State known as the _____ (farm) No. _____ located in _____ County; if the above bounden principal shall comply with the laws of this State and the rules, regulations and orders of the State Mineral Test Hole Board, with reference to the proper plugging of said hole, and filing with the Supervisor all records required by the Board

Said bond is herewith deposited in cash with the State Mineral Test Hole Board, State of Tennessee, and shall be received and held in the name of the State Mineral Test Hole Board, State of Tennessee, in trust, upon the conditions herein set forth, and (I) (we) do hereby jointly and severally bind (myself) (ourselves), (my) (our) personal representatives, (my) (our) heirs, executors, administrators or successors and assigns, jointly and severally, firmly by these presents.

The duration of this bond shall be from the time filed with the Board until the Supervisor of the State Mineral Test Hole Board, upon being satisfied that the owner or operator has plugged the mineral test hole in accordance with the law and the rules and regulations of the State Mineral Test Hole Board, and that all logs, plugging affidavits, or other pertinent information required by law and the rules and regulations and orders of the Board have been filed, releases the bond.

IN WITNESS WHEREOF, we have hereunto set our hands and affixed our seals this _____ day
of _____, 19 _____

Principal

by _____

(When principal executes this bond by agent, power of attorney, or other, evidence of such authority must be attached).

STATE MINERAL TEST HOLE BOARD
STATE OF TENNESSEE

BLANKET CASH BOND
Covering Mineral Test Holes To Be Drilled, Deepened, Or Re-Opened

KNOW ALL MEN BY THESE PRESENTS:

That (I) (we) _____

_____, as principal (am) (are) held and firmly bound unto the State Mineral Test Hole Board, State of Tennessee, in the penal sum of Ten Thousand Dollars (\$10,000), lawful money of the United States, for which payment, well and truly made, (I) (we) jointly and severally bind (myself) (ourselves), (my) (our) personal representatives, (my) (our) heirs, executors, administrators or successors, and assigns.

The condition of this obligation is such that whereas the above bounden principal proposes to drill, deepen, or re-open mineral test holes in this State; if the above bounden principal shall comply with the laws of this State and the rules, regulations and orders of the State Mineral Test Hole Board, with reference to the proper plugging of said holes and filing with the Supervisor all records required by the Board.

Said bond is herewith deposited in cash with the State Mineral Test Hole Board, State of Tennessee, and shall be received and held in the name of the State Mineral Test Hole Board, State of Tennessee, in trust, upon the conditions herein set forth, and (I) (we) do hereby jointly and severally bind (myself) (ourselves), (my) (our) personal representatives, (my) (our) heirs, executors, administrators or successors and assigns, jointly and severally, firmly by these presents.

The duration of this bond shall be from the time filed with the Board until the Supervisor of the State Mineral Test Hole Board, upon being satisfied that the owner or operator has plugged the holes in accordance with the law and the rules and regulations of the State Mineral Test Hole Board, and that plugging affidavits, or other pertinent information required by law and the rules and regulations and orders of the Board have been filed, releases the bond.

IN WITNESS WHEREOF, we have hereunto set our hands and affixed our seals this _____ day
of _____, 19 _____.

Principal

by _____

(When principal executes this bond by agent, power of attorney, or other, evidence of such authority must be attached.)

STATE MINERAL TEST HOLE BOARD
STATE OF TENNESSEE

BLANKET SURETY BOND

Covering Mineral Test Holes To Be Drilled, Deepened, Or Re-Opened

KNOW ALL MEN BY THESE PRESENTS:

That we _____

_____, as principal

and _____
a corporation, as surety, authorized to do business in this State, are held and firmly bound unto the State Mineral Test Hole Board, State of Tennessee, in the penal sum of Ten Thousand Dollars (\$10,000), lawful money of the United States, for which payment, well and truly made, we jointly and severally bind ourselves, our personal representatives, our heirs, executors, administrators or successors, and assigns.

The condition of this obligation is such that whereas the above bounden principal proposes to drill, deepen, or re-open mineral test holes in this State; if the above bounden principal shall comply with the laws of this State and the rules, regulations and orders of the State Mineral Test Hole Board, with reference to the proper plugging of said holes, and filing with the Supervisor all records required by the Board.

The duration of this bond shall be from the time filed with the Board until the Supervisor of the State Mineral Test Hole Board, upon being satisfied that the owner or operator has plugged the holes in accordance with the law and rules and regulations of the State Mineral Test Hole Board, and that plugging affidavits, or other pertinent information required by law and the rules and regulations and orders of the Board have been filed, releases the bond.

IN WITNESS WHEREOF, we have hereunto set our hands and affixed our seals this _____
day of _____, 19 _____

Resident Agent

Address

Principal

Surety

by _____

(When principal or surety executes this bond by agent, power of attorney or other, evidence of such authority must be attached).

UTAH

RESPONSIBLE AGENCY

Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Telephone: 801/538-5340

Contact: Mary Ann Wright
Associate Director, Mining
or
D. Wayne Hedberg
Permit Supervisor
Minerals Regulatory Program

REGULATORY AUTHORITY

1. State of Utah Mined Land Reclamation Act, Chapter 8, Title 40, Utah Code Annotated, Amended 1987
2. Mineral Exploration Program — Exploration Rules R647-2

PERMITTING REQUIREMENTS

◆ **General Requirements**

Exploration is defined as "... surface disturbing activities conducted for the purpose of discovering a deposit or mineral deposit, delineating the boundaries of a deposit or mineral deposit, and identifying regions or specific areas in which deposits or mineral deposits are most likely to exist." A Notice of Intention to Conduct Exploration must be filed with the Division of Oil, Gas and Mining before exploration begins. The Notice of Intention must be submitted on Division "FORM MR-EXP" (copy attached) or in a letter that addresses the same informational requirements. It is recommended that the Notice of Intention be filed with the Division at least 30 days prior to the planned commencement of exploration. The Notice of Intention is valid until November 30th of the year following the year of submittal, but can be extended upon written request.

◆ **Specific Requirements**

1. **File Notice of Intention to Conduct Exploration.**

Information required:

- a. Name, mailing address, and telephone of operator responsible for exploration;
 - b. Name and mailing address of surface owner(s) and mineral owner(s) of all affected land;
 - c. The federal mining claim number(s), lease number(s), or permit number(s) of any mining claims, federal or state leases or permits included in the land affected;
 - d. A topographic base map showing the location of the proposed exploration project;
 - e. A project description, including methods of exploration proposed, type of minerals of which is to be explored, width and length of any new roads, and an estimate of the total number of surface acres to be disturbed.
2. **Reclamation surety** (if more than five acres of total surface disturbance).
3. **Drill hole plugging.**
4. **File an annual Exploration Progress Report** by December 31 of the year of filing, or upon completion of the exploration project (whichever comes first), on Division "FORM MR-EPR."

◆ **Reclamation Standards**

The operator must conform to the following practices while conducting reclamation unless the Division grants a variance in writing:

1. The operator shall minimize hazards to the public safety and welfare following completion of operations.
2. Avoid or minimize future damage to the hydrologic system.
3. Sediment from disturbed areas must be adequately controlled.
4. All deleterious or potentially deleterious material shall be safely removed from the site or left in an isolated or neutralized condition.
5. The on-site area must be left in a condition which is capable of supporting the post-mining land use.

6. Waste piles, spoil piles and fills shall be regraded to a stable configuration and shall be sloped to minimize safety hazards and erosion while providing for successful revegetation.
7. Highwalls shall be reclaimed and stabilized by backfilling against them or by cutting the wall back to achieve a slope angle of 45 degrees or less.
8. On-site roads and pads shall be reclaimed when they are no longer needed for operations.
9. Water impounding structures shall be reclaimed so as to be self-draining and mechanically stable unless shown to have sound hydrologic design and to be beneficial to the post-mining land use.
10. Trenches and pits shall be reclaimed.
11. Structures, rail lines, utility connections, equipment, and debris shall be buried or removed.
12. After final grading, soil materials shall be redistributed on a stable surface so as to minimize erosion, prevent undue compaction and promote revegetation.
13. The species seeded shall include adaptable perennial species that will grow on the site, provide basic soil and watershed protection, and support the post-mining land use.

◆ **Drill Hole Plugging Requirements**

Drill holes shall be properly plugged as soon as practical and not be left unplugged for more than 30 days without approval of the Division. The procedures outlined below are required for the surface and subsurface plugging of drill holes. The Division may approve an alternate plan, if the operator can prove to the satisfaction of the Division that another method will provide adequate protection to the groundwater resources and long term stability. Dry holes and nonartesian holes that do not produce significant amounts of water may be temporarily plugged with a surface cap to permit the operator to re-enter the hole for the duration of operations.

1. Surface plugging of drill holes shall be accomplished by:
 - a. Setting a nonmetallic permaplug at a minimum of five feet below the surface, or returning the cuttings to the hole and tamping the returned cuttings to within five feet of ground level. The hole above the permaplug or tamped cuttings will be filled with a cement plug. If the cemented casing is to be left in place, a concrete surface plug is not required provided that a permanent cap is secured on top of the casing.

- b. If the area is tilled farmland, a five foot cement plug must be placed above a permaplug or tamped cuttings so that the top of the cement plug is a minimum of three feet below the ground surface. The hole above the cement plug is to be filled with soil. If the cemented casing is to be left in place, a concrete surface plug is not required provided that a permanent cap is secured on top of the casing. The top of the casing and cap must be a minimum of three feet below the ground surface.
2. Drill holes that encounter water, oil, gas, or other potential migratory substances and are two and one-half inches or greater in surface diameter shall be plugged in the subsurface to prevent the migration of fluid from one strata to another. If water is encountered, plugging shall be accomplished as outlined below:
 - a. If an artesian flow (i.e., water flowing to the surface from the hole) is encountered during or upon cessation of drilling, a cement plug shall be placed to prevent water from flowing between geologic formations and at the surface. The cement mix should consist of API Class A or H cement with additives as needed. It should weigh at least 13.5 pounds per gallon, and be placed under the supervision of a person qualified in proper drill hole cementing of artesian flow. Artesian bore holes must be plugged in the described manner, prior to removal of the drilling equipment from the well site. If the surface owner of the land affected desires to convert an artesian drill hole to a water well, the owner must notify the Division in writing accepting responsibility for the ultimate plugging of the hole.
3. Holes that encounter significant amounts of nonartesian water shall be plugged by:
 - a. Placing a 50 foot cement plug immediately above and below the aquifer(s), or
 - b. Filling from the bottom up (through the drill stem) with a high grade bentonite/water slurry mixture. The slurry shall have a Marsh funnel viscosity of a least 50 seconds per quart prior to the adding of any cuttings.

◆ Reclamation Surety Requirements

The operator of an exploration project that will result in more than five surface acres being disturbed at any given time must post a reclamation surety prior to commencement of exploration. Disturbed areas which have been reclaimed are not included within the cumulative five acres for purposes of the reclamation surety.

The Division will not require a separate surety where a reclamation surety in a form and amount acceptable to the Board of Oil, Gas and Mining is held by the Division of State Lands and Forestry or an agency of the federal government.

The Division will determine the required surety amount based on site-specific calculations reflecting the Division's cost to reclaim the site. The operator shall submit a completed Reclamation Contract ("FORM MR-RC") with the required surety amount. Surety shall be required until such time as reclamation is deemed complete by the Division.

OTHER AGENCY CONTACTS

Utah Department of Environmental Quality
Brent Bradford, Deputy Director
168 North 1950 West
Salt Lake City, Utah 84116
801/536-4400

(DEQ does not usually become involved at the exploration level.)

Utah Division of Forestry, Fire and State Lands
Art DuFault, Director
1594 West North Temple, Suite 3520
Box 145703
Salt Lake City, Utah 84114-5703
801/538-5555

(For exploration impacting Forestry, Fire and State Lands, permission must first be obtained).

School and Institutional Trust Lands Administration
David Terry, Director
675 East 500 South, Suite 500
Salt Lake City, Utah 84102
801/538-5100

(For exploration impacting state school trust lands, a state mineral lease must first be obtained.)

For Division Use Only
File Number _____
Date NOI Received E / _____ / _____
Date NOI Approved _____
DOG M Lead _____

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1594 West North Temple Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801
Telephone: (801) 538-5291
Fax: (801) 359-3940

NOTICE OF INTENTION TO CONDUCT EXPLORATION

The informational requirements of this form are based on provisions of the Mined Land Reclamation Act, Title 40-8, Utah Code Annotated, 1953, as amended, and the General Rules as promulgated under the Utah Minerals Regulatory Program.

PLEASE NOTE: All information provided in this Notice of Intention shall be protected as confidential information by the Division. If extra space is required to completely answer any section, please attach additional sheets and include cross-referenced page numbers as necessary. The operator may submit this information on an alternate form, but the same or similar format and content must be used.

"Exploration" means surface disturbing activities conducted for the purpose of discovering a deposit or mineral deposit, delineating the boundaries of a deposit or mineral deposit, and identifying regions or specific areas in which deposits or mineral deposits are most likely to exist. "Exploration" includes, but is not limited to: sinking shafts; tunneling; drilling holes and digging pits or cuts; building of roads, and other access ways; and constructing and operating other facilities related to these activities.

I. GENERAL INFORMATION (Rule R647-2-104)

1. **Project Name:** _____
2. **Operator:**
 Name: _____
 Address: _____
 Phone: _____
3. **Operator's Representative:**
 Name: _____
 Address: _____
 Phone: _____

4. **Project Location:**

County(ies): _____
 _____ 1/4, _____ 1/4, _____ 1/4: Section: _____ Township: _____ Range: _____
 _____ 1/4, _____ 1/4, _____ 1/4: Section: _____ Township: _____ Range: _____
 _____ 1/4, _____ 1/4, _____ 1/4: Section: _____ Township: _____ Range: _____

5. **Ownership of the land surface**

Private (Fee) Public Domain (BLM) National Forest (USFS)
 State Trust Land/School Sections State Sovereign Lands

Other (please describe): _____
 Name: _____ Address: _____
 Name: _____ Address: _____
 Name: _____ Address: _____
 Name: _____ Address: _____

6. **Owner(s) of minerals within the land to be affected:**

Private (Fee) Public Domain (BLM) National Forest (USFS)
 State Trust Land/School Sections State Sovereign Lands

Other (please describe): _____
 Name: _____ Address: _____
 Name: _____ Address: _____
 Name: _____ Address: _____
 Name: _____ Address: _____

Utah Mining Claim Number(s) _____

Utah State Lease Number(s) _____

Name of Lessee(s) _____

7. **Have the above surface and mineral owners been notified in writing? Yes _____ No _____**

If no, why not? _____

Please be advised that if State Trust Lands are involved, notification to the Division of Oil, Gas and Mining alone does not satisfy the notification requirements of Mineral Leases upon State Trust Lands. Exploration or mining activity on State Trust Lands requires a minimum of 60 days notice to the Trust Lands Administration prior to commencing any activities. Please contact the School Institutional Trust Lands Administration (SITLA) at (801) 538-5508 for notification requirements.

8. Does the operator have legal right to enter and conduct exploration on the land covered by this notice? Yes _____ No _____

II. MAPS & DRAWINGS (Rule R647-2-105)

A topographic base map showing the location of the proposed exploration project must be submitted with this notice. A USGS 7.5 minute series map is preferred. The areas to be disturbed should be plotted in sufficient detail so that they can be located on the ground. It is recommended that the operator also plot and label any pre-existing disturbances in the immediate vicinity that he is not responsible for.

III. PROJECT DESCRIPTION (Rule 647-2-106)

1. Minerals to be explored: _____

2. Identify the type or method of exploration proposed (place an "X"):

_____ Cuts _____ Pits _____ Trenches _____ Shafts _____ Tunnels
 _____ Air Drilling _____ Fluid Drilling
 _____ Other (describe) _____

3. Proposed Disturbances (Approximate):

Drill Pads: How many? _____ Width _____ (ft) Length _____ (ft)

Drill Holes: How many? _____ Depth _____ (ft) Diameter _____ (in)

Shafts, trenches, pits, cuts, or other types of disturbance.

Describe type, how many of each, and general dimensions.

New Road(s): Length _____ (ft) Width _____ (ft)

Improved Road(s) Length _____ (ft) Width _____ (ft)

Total project acreage to be disturbed _____ (acres)

4. Proposed exploration schedule (dates):

Begin: _____ End: _____

IV. OPERATION AND RECLAMATION PRACTICES (Rules R647-2-107, 108, and 109)

An exploration site is required to be kept in a clean and safe condition. Upon completion of exploration, the land is to be reclaimed to a useful condition with at least 70 percent of the original vegetative ground cover. To accomplish this, the operator will need to do the following work where applicable:

1. Keep the exploration site in a safe, clean, and environmentally stable condition.
2. Permanently seal all shafts and tunnels to prevent unauthorized or accidental entry.
3. Plug drill holes with a five foot cement surface plug. Holes that encounter fluids are to be plugged in the subsurface to prevent aquifer contamination.
4. Construct berms, fences, or barriers, when needed, above highwalls and excavations.
5. Remove, isolate, or neutralize all toxic materials in a manner compatible with federal and state regulations.
6. Remove all waste or debris from stream channels.
7. Dispose of any trash, scrap metal, wood, machinery, and buildings.
8. Conduct exploration activities so as to minimize erosion and control sediment.
9. Reclaim all roads that are not part of a permanent transportation system.
10. Stockpile topsoil and suitable overburden prior to making excavations.
11. Stabilize highwalls by backfilling or rounding to 45 degrees or less, where feasible; reshape the land to near its original contour, and redistribute the topsoil and suitable overburden.
12. Properly prepare seed bed to a depth of six inches by ripping, discing, or harrowing.
13. Reseed disturbed areas with adaptable species. The Division recommends seeding 20 lbs./acre of native and introduced species of grass, forb, and browse seed, and will provide a specific species list if requested.
14. Plant the seed with a rangeland or farm drill, or if broadcast seeded, harrow or rake the seed 1/4-1/2 inch into the soil - fall is the preferred time to seed. The Division recommends broadcast fertilization at the time of seeding of 200 lbs./acre of diammonium phosphate 18-46-0.

V. VARIANCE REQUEST (Rule R647-2-110) Yes _____ No _____

Rules R647-2-107, Operation Practices; R647-2-108, Hole Plugging Requirements; and R647-2-109, Reclamation Practices are summarized on the preceding page. Any planned deviations from these rules should be identified below and justification given for the variance request(s).

<u>Item Number</u>	<u>Variance Request Justification</u>
_____	_____
_____	_____
_____	_____
_____	_____

VI. SURETY (Rule R647-2-111)

Note: Completion of this section is not necessary for exploration projects that will disturb five or less surface acres.

Exploration projects that will disturb more than five acres at any given time are required to post a reclamation surety. The surety must be provided to the Division prior to commencement of operations. In calculating the surety amount, the Division will consider the following major steps:

- 1) Hole plugging
- 2) Backfilling, grading and contouring.
- 3) Soil material redistribution and stabilization.
- 4) Revegetation (preparation, seeding, mulching)

To assist the Division in determining a reasonable surety amount, please attach a reclamation cost estimate which addresses each of the above steps.

VII. SIGNATURE REQUIREMENT

I hereby commit to the reclamation of the aforementioned exploration project as required by the Utah Mined Land Reclamation Act (40-8) and the rules as specified by the Board of Oil, Gas and Mining.

Signature of Operator/Applicant: _____

Name (typed or print): _____

Title/Position (if applicable): _____

Date: _____

3:MR-EXP

STATE OF UTAH, DEPARTMENT OF NATURAL RESOURCES, DIVISION OF OIL, GAS AND MINING
1594 WEST NORTH TEMPLE, STE 1210, PO BOX 145801, SALT LAKE CITY, UTAH 84114-5801
TELEPHONE: (801) 538-5291 FAX: (801) 359-3940

MINERAL EXPLORATION PROGRESS REPORT

PURSUANT TO THE TERMS OF SECTION 40-8-13 (2) OF THE MINED LAND RECLAMATION ACT AND RULE R647-2-113, INFORMATION PROVIDED IN THIS REPORT SHALL BE PROTECTED AS CONFIDENTIAL INFORMATION BY THE DIVISION.

DOG M EXPLORATION FILE # E/_____/_____
PROJECT NAME: _____
COUNTY: _____

DATE OF COMPLETION FOR ALL RECLAMATION WORK, INCLUDING RESEEDING: _____

BRIEFLY DESCRIBE THE EXPLORATION WORK THAT WAS PERFORMED (FOR DRILL HOLES, SEE PAGE 2): _____

TOTAL PROJECT DISTURBED ACRES: _____
BRIEFLY DESCRIBE THE RECLAMATION WORK PERFORMED: _____

HAS ANY PORTION OF THE EXPLORATION PROJECT BEEN LEFT UNRECLAIMED? _____ IF YES, UNRECLAIMED ACREAGE: _____
BRIEFLY DESCRIBE REMAINING RECLAMATION WORK: _____

I HEREBY CERTIFY THAT (UNLESS OTHERWISE NOTED ABOVE), ALL DRILL HOLES HAVE BEEN PLUGGED AND ABANDONED IN COMPLIANCE WITH THE TERMS OF RULE R647-2-108; THAT (UNLESS OTHERWISE NOTED ABOVE), RECLAMATION OF ALL DISTURBED LANDS HAS BEEN PERFORMED IN COMPLIANCE WITH THE TERMS OF RULE R647-2-109; AND THAT THESE ACTIVITIES HAVE BEEN CONDUCTED AS OUTLINED IN THE NOTICE OF INTENTION TO COMMENCE EXPLORATION.

NAME OF OPERATOR (TYPE OR PRINT) _____ SIGNATURE OF OPERATOR _____
ADDRESS OF OPERATOR _____ TITLE OF OPERATOR _____
CITY/STATE/ZIP _____ PHONE _____
DATE _____

January 2, 1990

Division of Oil, Gas and Mining
Policy for
Related or Neighboring Sites
Minerals Program

The following policy provides clarification to the term "onsite", section R 647-1-106 of the Mineral Rules. As defined in this rule,

"Onsite" means the surface lands on or under which surface or underground mining operations are conducted. A series of related properties under the control of a single operator, but separated by small parcels of land controlled by others will be considered a single site unless excepted by the Division."

1. Noncontiguous mining and exploration disturbances, under the control of one operator, will be considered as one operation regardless of aggregate acreage, when the outer most boundary of one disturbed area is within a two mile radius of the outer most boundary of another disturbed area. Those sites aggregating less than five acres will be considered Small Mine or Exploration sites as appropriate.
2. Several properties linked together, as described above will be considered as one (see Fig. 1), for the purposes of permitting and bonding.
3. All roads connecting two or more noncontiguous sites that were constructed for accessing these sites for mining purposes, or were existing but significantly upgraded, will be considered in the permitting process.

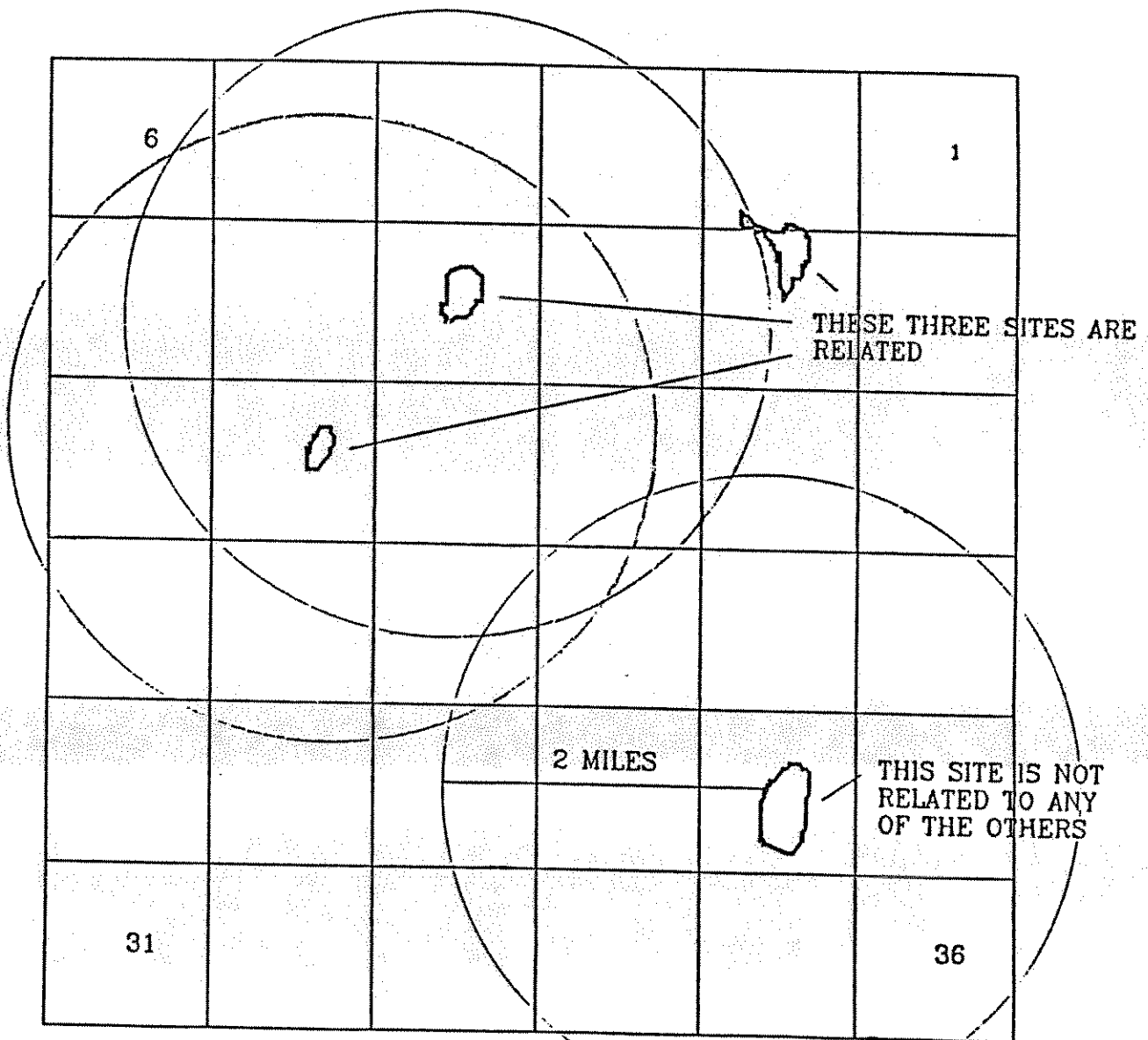
Administrative Approval: 




Date: 1-2-90

MN76/13

FIGURE 1

DIAGRAM OF RELATED SITES



- KEY:  — DISTURBED AREA
 — 2 MILE RADIUS AROUND A DISTURBED AREA STARTING AT THE OUTER MOST BOUNDARY
 — SECTION

NOTE: A 2 MILE RADIUS MUST PHYSICALLY INTERCEPT THE BOUNDARY OF A DISTURBED AREA FOR SITES TO BE DESIGNATED RELATED

STATE OF UTAH, DEPARTMENT OF NATURAL RESOURCES, DIVISION OF OIL, GAS AND MINING
1594 WEST NORTH TEMPLE, STE 1210, BOX 145801, SALT LAKE CITY, UTAH 84114-5801
TELEPHONE: (801) 538-5291 FAX: (801) 359-3940

MINERAL EXPLORATION PROGRESS REPORT

PURSUANT TO THE TERMS OF SECTION 40-8-13(2) OF THE MINED LAND RECLAMATION ACT AND RULE R647-2-113, INFORMATION PROVIDED IN THIS REPORT SHALL BE PROTECTED AS CONFIDENTIAL INFORMATION BY THE DIVISION.

DOG M EXPLORATION FILE # E/ _____ / _____
PROJECT NAME: _____
COUNTY: _____

DATE OF COMPLETION FOR ALL RECLAMATION WORK, INCLUDING RESEEDING: _____

BRIEFLY DESCRIBE THE EXPLORATION WORK THAT WAS PERFORMED (FOR DRILL HOLES, SEE PAGE 2): _____

TOTAL PROJECT DISTURBED ACRES: _____

BRIEFLY DESCRIBE THE RECLAMATION WORK PERFORMED: _____

HAS ANY PORTION OF THE EXPLORATION PROJECT BEEN LEFT UNRECLAIMED? _____ IF YES, UNRECLAIMED ACREAGE: _____

BRIEFLY DESCRIBE REMAINING RECLAMATION WORK: _____

I HEREBY CERTIFY THAT (UNLESS OTHERWISE NOTED ABOVE), ALL DRILL HOLES HAVE BEEN PLUGGED AND ABANDONED IN COMPLIANCE WITH THE TERMS OF RULE R647-2-108; THAT (UNLESS OTHERWISE NOTED ABOVE), RECLAMATION OF ALL DISTURBED LANDS HAS BEEN PERFORMED IN COMPLIANCE WITH THE TERMS OF RULE R647-2-109; AND THAT THESE ACTIVITIES HAVE BEEN CONDUCTED AS OUTLINED IN THE NOTICE OF INTENTION TO COMMENCE EXPLORATION.

NAME OF OPERATOR (TYPE OR PRINT) _____

SIGNATURE OF OPERATOR _____

ADDRESS OF OPERATOR _____

TITLE OF OPERATOR _____

CITY/STATE/ZIP _____

PHONE _____

DATE _____

WASHINGTON

RESPONSIBLE AGENCY

Department of Natural Resources
Division of Geology and Earth Resources
P.O. Box 47007
Olympia, Washington 98504-7007

Telephone: 206/902-1450

Contact: Bill Lingley
Regulatory Programs Manager

REGULATORY AUTHORITY

1. Washington Surface Mined Land Reclamation Act, Chapter 332-18 WAC
2. Surface Mining Rules, Chapter 78.44 RCW
(as amended by Chapter 518 of the Laws of the 1993 Legislative Session)
3. Washington Metals Mining & Milling Act, Chapter 78.56 RCW

PERMITTING REQUIREMENTS

◆ **General Requirements**

Prospecting and exploration activities are included within the definition of surface mining, when they collectively result in more than three acres of land being disturbed, or when collectively they disturb more than one acre per eight acres of land area, on any metals mining operation. Surface mining (including prospecting and exploration) does not include disturbances of greater than three acres of land during any time period if the cumulative area that has not been rehabilitated is less than three acres.

No operator shall engage in surface mining without having first obtained an operating permit from the Department of Natural Resources. The operating permit must include a reclamation plan.

All reclamation plans, operator's reports and other information required as part of the operating permit, shall be for the confidential use of the Department of Natural Resources only.

◆ **Specific Requirements**

1. **File an Operating Permit Application** (if exploration activities meet the above definition of "surface mining").

Information required:

- a. Name and address of legal landowner, any purchaser of the land under a real estate contract, and the operator and, if any of these are corporations or other business entities, the names and address of their principal officers and resident agent for the service of process;
 - b. Materials to be surface mined;
 - c. Description of activities;
 - d. Expected starting date;
 - e. Anticipated termination date; and
 - f. Size and legal description of the area that will be disturbed.
2. **A reclamation plan.**
 3. **Permit fee of \$250 per permit year** for each separate location, payable with submission of the application and annually thereafter.
 4. **Annual and final reports**, to be filed within 30 days after each annual anniversary date of the operating permit, or within 30 days after completion of abandonment of mining, whichever is earlier.
 5. **Performance bond or bank letter of credit.**

◆ **Reclamation Standards**

The reclamation plan shall provide that reclamation activities, particularly those relating to control of erosion, shall, to the extent feasible, be conducted simultaneously with surface mining and in any case shall be initiated at the earliest possible time after completion or abandonment of mining on any segment of the permit area. The plan shall provide that reclamation activities shall be completed not more than two years after completion or abandonment of surface mining on each segment of the area for which the permit is requested.

◆ **Drill Hole Plugging Requirements**

There are no specific requirements.

◆ **Reclamation Surety Requirements**

Upon receipt of an operating permit an operator may not commence surface mining until the operator has deposited with the Department of Natural Resources an acceptable performance bond or bank letter of credit. This performance bond shall be a corporate surety bond executed in favor of the Department of Natural Resources by a corporation authorized to do business in the state of Washington. The bond shall be filed and maintained in an amount equal to the estimated cost of completing the reclamation plan for the area to be surface mined during the next twelve-month period, and any previously surface mined area for which a permit has been issued and on which the reclamation has not been satisfactorily completed and approved. The Department of Natural Resources shall have the authority to determine the amount of the bond that shall be required, and for any reason may refuse any bond not deemed adequate.

In lieu of the surety bond required by this section the operator may file a cash deposit, negotiable securities acceptable to the Department of Natural Resources, an assignment of a savings account or of a savings certificate in a Washington bank, or bank letters of credit acceptable to the Department.

OTHER AGENCY CONTACTS

Department of Ecology
Mail Stop POLYSTABIL VZ-11
St. Martin's College Campus-Lacey
Olympia, Washington 98504-8711
Telephone: 206/459-6022

WISCONSIN

RESPONSIBLE AGENCY

Department of Natural Resources
Bureau of Waste Management
P.O. Box 7921
Madison, Wisconsin 53707

Telephone: 608/267-7553

Contact: Lawrence J. Lynch, Mining Team Leader

REGULATORY AUTHORITY

1. Chapter NR 130; Metallic Mineral Exploration in the Wisconsin Administration Code
2. Chapter 293, Subchapter III; Exploration in Wisconsin State Statutes
3. Chapter 107; Mining and Metal Recovery in Wisconsin State Statutes

PERMITTING REQUIREMENTS

◆ General Requirements

Wisconsin statutes define "exploration" as the on-site geologic examination from the surface of an area by core, rotary, percussion, or other drilling, where the diameter of the hole does not exceed 18 inches, for the purpose of searching for metallic minerals or establishing the nature of a known metallic mineral deposit, and includes associated activities such as clearing and preparing sites or constructing roads for drilling (§293.01(5)). An annual license (copy attached) is required to do exploration in the state. The license year runs from July 1 to June 30 of the following year.

◆ **Specific Requirements**

1. The Department of Natural Resources must be notified at least ten days prior to commencement of drilling. The Notice of Intent to drill shall state:
 - a. The number of drill holes expected to be drilled;
 - b. The legal description of the affected parcel; and
 - c. Description of the proposed activities.
2. The explorer shall orally, or by letter, notify the Department prior to the commencement of each drill hole.
3. The explorer shall notify the Department at least 24 hours in advance of the explorer's intent to fill a drill hole.
4. An Abandonment Report (copy attached) must be submitted to the Department ten days after completion or temporary abandonment of a drill hole. The Department must be notified, in writing, of the reclamation of each site.

◆ **Reclamation Standards**

The explorer must ensure that the exploration site has erosion protection, such as recontouring for site stabilization and reseeded. All rubbish must be removed and concrete must be broken up so that it does not impede vegetative growth.

◆ **Drill Hole Plugging Requirements**

All metallic mineral drill holes, four inches in diameter or smaller, shall be filled from bottom to top with neat cement grout. Drill holes greater than four inches may be filled with crushed rock to within 20 feet of the surface. The upper 20 feet must be filled with neat grout. If the drill hole is temporarily abandoned, the casing must be sealed with a water-tight threaded or welded cap.

◆ **Reclamation Surety Requirements**

The Exploration License application must be accompanied with surety in an amount adequate for the exploration program, and in a minimum amount of \$5000. The bond may be periodically increased by the Department to an amount adequate to fund the termination of all drill holes constructed by the explorer.

OTHER AGENCY CONTACTS

Wisconsin Department of Natural Resources, Permits Coordinator
101 S. Webster
Box 7921
Madison, Wisconsin
608/266-2121

State of Wisconsin
Department of Natural Resources
Mine Reclamation Section
Box 7921
Madison, WI 53707

METALLIC MINERAL EXPLORATION LICENSE APPLICATION
s. 144.832, Wis. Stats., and Chapter NR 130, Wis. Adm. Code.
Form 2700-5 Rev. 11-92

- Original Application
 Renewal Application

License Period Expiring June 30, 19 ____ .

INSTRUCTIONS: Please submit two completed copies of this application form to the Mine reclamation Section at the above address.

SECTION A - GENERAL INFORMATION

1. Name of Applicant _____		3. Applicant is (✓ one) <input type="checkbox"/> Individual <input type="checkbox"/> Other (Explain) _____ <input type="checkbox"/> Sole Proprietorship _____ <input type="checkbox"/> Partnership _____ <input type="checkbox"/> Corporation _____
2. Street or Route _____		
City, State, Zip Code _____		
4. Is Applicant a <input type="checkbox"/> Division or <input type="checkbox"/> Subsidiary of Another Corporation <input type="checkbox"/> Yes (If Yes, State Name and Address of Parent Corporation.) <input type="checkbox"/> No		
5. If Applicant is a Corporation, is it Incorporated Under Wisconsin Law <input type="checkbox"/> Yes <input type="checkbox"/> No		6. If Applicant is Incorporated Outside Wisconsin, Does it Hold a Valid Certificate of Authority to do Business in Wisconsin Issued by the Secretary of State <input type="checkbox"/> Yes <input type="checkbox"/> No

SECTION B - FINANCIAL RESPONSIBILITY

1. Attach one copy each of the applicant's and parent company's (where applicable) most recent annual report and most recent Form 10-K as filed with the Securities and Exchange Commission. If these are not available, attach a report of the applicant's current assets and liabilities and other necessary data to establish that the applicant is competent to conduct exploration in a manner consistent with the requirements of ss. 144.80 - 144.94, Wis. Stats.
2. Attach a bond payable to the Department of Natural Resources in the amount of \$5,000 or another amount specified by the Department conditioned on faithful performance of the provisions of Chapter NR 130, Wis. Adm. Code and ss. 144.80 - 144.94, Wis. Stats. The bond shall comply with all provisions enumerated in s. NR 130.05(2)(b), Wis. Adm. Code.
3. Attach a certificate of insurance certifying that the applicant has in force a liability insurance policy issued by an insurance company authorized to do business in this state covering all exploration of the applicant in this state and affording personal injury and property damage protection in a total amount deemed adequate by the department but not less than \$50,000.

SECTION C - FEE

Attached is a check or money order in the amount of \$300 for original application \$150 for renewal application made payable to the Department of Natural Resources to cover the annual license fee.

SECTION D - APPLICANT'S STATEMENT

(Must be signed by the individual applicant; by all partners if a partnership; by a corporation officer if a corporation; or by a responsible official if other than the above.)

I/We hereby certify that the foregoing statements are true to the best of my/our knowledge and belief.

I/We hereby execute the foregoing application as officer(s) of the _____
by its authority. Corporation Name

Signature _____	Date Signed _____
Title _____	
Signature _____	Date Signed _____
Title _____	

Exploration Licensee Name _____		County _____																																																	
Street or Route _____		Drillhole Number _____																																																	
City, State, Zip Code _____		Location _____ 1/4 Of The _____ 1/4 Section _____																																																	
Drilling Company Name _____		Township _____ Range _____																																																	
Street or Route _____		Type of Drillhole (Core Drill, Rotary, Etc.) _____																																																	
City, State, Zip Code _____		Starting Angle of Hole _____ Direction (Azimuth) _____																																																	
Property Owner Name _____		Drillhole Diameter(s) and Interval(s)																																																	
Street or Route _____		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>From</th> <th>To</th> <th>Diameter</th> <th>From</th> <th>To</th> <th>Diameter</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		From	To	Diameter	From	To	Diameter																																										
From	To	Diameter	From	To	Diameter																																														
City, State, Zip Code _____		Total Depth of Drillhole _____ Feet																																																	
Date Started Drilling _____		Date Finished Drilling _____																																																	
Drillhole Is <input type="checkbox"/> Temporarily Abandoned _____ <input type="checkbox"/> Permanently Abandoned _____		If Temporarily Abandoned: Upper Terminal of Casing Sealed Watertight With: <input type="checkbox"/> Threaded Cap <input type="checkbox"/> Welded Steel Plate																																																	
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Depths</th> <th rowspan="2">Type of Overburden And Rock</th> <th colspan="2">Depths</th> <th colspan="2">If Permanently Abandoned</th> </tr> <tr> <th>From</th> <th>To</th> <th>From</th> <th>To</th> <th>Sealing Material Used</th> <th>Amount*</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		Depths		Type of Overburden And Rock	Depths		If Permanently Abandoned		From	To	From	To	Sealing Material Used	Amount*																																				Depth to Water _____ Feet	
Depths		Type of Overburden And Rock	Depths		If Permanently Abandoned																																														
From	To		From	To	Sealing Material Used	Amount*																																													

Was Casing Left in Place
 Yes No
 If Yes, To What Depth? _____

Name of Person or Firm Doing Sealing Work _____		I hereby certify that the information in this report is true and correct to the best of my knowledge and belief. Dated This _____ Day Of _____ 19____ At _____ _____ (City) _____ (State) Signature of Exploration Company Representative _____ Title
Street or Route _____		
City, State, Zip Code _____		
Fee Included <input type="checkbox"/> Yes <input type="checkbox"/> No Amount \$ _____		
Number of drillholes constructed in the current license year? _____		

*If neat cement - indicate number of 94 lb. bags, volume of water. If clay, sand, concrete or gravel - indicate cubic yards.

WYOMING

RESPONSIBLE AGENCY

Department of Environmental Quality
Land Quality Division
122 W. 25th Street
Herschler Building, Third Floor West
Cheyenne, Wyoming 82002

Telephone: 307/777-7756 **FAX:** 307/634-0799

Contact: Rick Chancellor, Administrator

REGULATORY AUTHORITY

1. Wyoming Environmental Quality Act, Section 35-11-101 through 35-11-1104, Wyoming Statutes, 1994 and Environmental Quality Act, T 35, C 11, WSA
2. Wyoming Department of Environmental Quality, Land Quality Division, 1994 Rules and Regulations
3. Wyoming Department of Environmental Quality Guidelines

PERMITTING REQUIREMENTS

◆ General Requirements

A Notification for Exploration by Drilling is required for any exploration drilling conducted for the purpose of gathering subsurface geologic, physical or chemical data to determine the location, quantity or quality of the natural mineral deposit of an area, excluding holes drilled for use as water wells.

A License to Explore by Dozing is required if engaged in exploration by dozing or other earth moving equipment, and applies to areas of less than 40 acres in any four contiguous sixteenth sections where lands will be disturbed. The Administrator shall notify the applicant of the amount of bond required within 30 days of the receipt of a complete application. The License to Explore by Dozing may be renewed annually by a renewal report which shall be filed within 30 days of the anniversary date of the License.

◆ **Specific Requirements**

1. The Department of Environmental Quality should be contacted prior to initiating any activity associated with mineral exploration.
2. File a Notification for Exploration by Drilling or a License to Explore by Dozing.

Information required:

- a. Name, address and telephone number of applicant;
 - b. Name, address and telephone number of person who will be present and/or responsible for exploration operation;
 - c. USGS topographic map showing area in which exploration is to be conducted along with proposed exploration activities;
 - d. Estimated acreage of affected land;
 - e. The location of lands to be explored by legal subdivision, section, quarter section, township, and range;
 - f. A general description of the land within the area to be affected;
 - g. Names and addresses of owners of record of the surface of all affected lands;
 - i. Names and address of owners of record of the mineral rights to all land to be affected;
 - j. A reclamation plan; and
 - k. Proposed timetable.
3. Reclamation surety estimate.
 4. A termination and report of operations shall be submitted within twelve months after completion of hole plugging and reclamation.

◆ **Reclamation Standards**

The following exploration and reclamation standards apply:

1. Topsoil removal and stockpiling shall precede any exploration activities.
2. The vegetative cover shall be reestablished where removed or destroyed by the exploration activities.
3. All acid-forming or toxic materials or materials constituting a fire, health or safety hazard uncovered during or created by the exploration shall be promptly treated or disposed of during the exploration activity in a manner designed to prevent pollution of surface or subsurface water or threats to human or animal health or safety.

4. Procedures shall be implemented to avoid constituting a public nuisance, endangering the public safety, human or animal life, property, and plant life in and adjacent to the exploration area.
5. Reclamation and restoration shall begin as early as practicable so as to prevent unnecessary erosion, sedimentation, and pollution.

◆ **Drill Hole Plugging Requirements**

General completion and restoration requirements:

1. All drill holes sunk for the purpose of conducting exploration by drilling shall be capped, sealed or plugged in the manner as follows:
 - a. Dry holes are to be completely filled to the collar of the hole or securely capped with concrete at a minimum depth of two feet below the original land surface or the collar, whichever is lower;
 - b. Drill holes with artesian flow to the surface shall be sealed from bottom to top with a cement plug; and
 - c. Drill holes encountering groundwater shall be sealed by leaving a column of drilling mud in the hole, and surface sealing at a minimum depth of two feet with concrete.
2. The Department of Environmental Quality should be contacted before initiating drill hole plugging.

◆ **Reclamation Surety Requirements**

A bond in the minimum amount of \$10,000 shall be posted for each exploration area. The bond amount is based on the estimated reclamation cost. The amount may be reduced when the discoverer demonstrates to the satisfaction of the Administrator a lesser estimate, computed in accordance with established engineering principles, for accomplishing proper hole completion and restoration in accordance with the standards set out by the Department.

OTHER AGENCY CONTACTS

Wyoming Department of Environmental Quality
122 West 25th Street
Herschler Building
Cheyenne, Wyoming 82002
307/777-7937

STATE MINERAL EXPLORATION PERMITTING SUMMARY

STATE	PERMIT REQUIRED	STANDARD FORMS REQUIRED	DRILL HOLE PLUGGING REQUIRED	BOND REQUIRED
Alaska	STATE LANDS	YES	NO	YES
Arizona	NOTICE	YES	YES	YES
California	YES	NO	YES (Lead Agency)	YES
Colorado	NOTICE	YES	YES	YES
Idaho	NOTICE	NO	YES	YES
Michigan	APPLICATION	NO	YES	YES
Minnesota	NOTICE	NO	YES	VARIABLE
Missouri	NO	NO	YES	NO
Montana	LICENSE	YES	YES	YES
Nevada	YES	YES	YES	YES
New Mexico	YES	NO	YES	YES
North Carolina	YES	YES	YES	YES
North Dakota	YES	NO	YES	NO
Oregon	YES	NO	YES	YES
South Carolina	YES	YES	YES	YES
South Dakota	NOTICE	YES	YES	YES
Tennessee	YES	YES	YES	YES
Utah	NOTICE	YES	YES	YES
Washington	YES	NO	NO	YES
Wisconsin	LICENSE	YES	YES	YES
Wyoming	NOTICE	YES	YES	YES