An exploration plan was submitted by Vermillion Gold Inc. on June 14, 2016 and summarized by the DNR on June 16, 2016. The plan was approved by the DNR on July 1, 2016. On December 28, 2016 Vermillion Gold amended their plan. Those changes have been added to this summary report and map. The locations of proposed exploration activities by this state nonferrous metallic minerals lessee are shown in a standard format and legend. This report and associated map were created by the Minnesota DNR, Division of Lands and Minerals.

Vermillion Gold amended their exploration plan on December 28, 2016. The amendment adds a new drill site location in section 10, removes a proposed drill site location in section 2, and adds a new access trail in section 9.

This report and associated map are posted on the DNR’s exploration plan website at: http://www.dnr.state.mn.us/lands_minerals/metallic_nf/regulations.html

This summary report and associated map should be distributed as a complete document due to the relative nature of the content.
Minerals Exploration Plan on State Nonferrous Metallic Mineral Leases

Vermillion Gold, Inc. Exploration Plan and Summarized by the Minnesota DNR June 14, 2016 and Amended on December 28, 2016

Amended Narrative: Vermillion Gold, Inc., (Explorer) has proposed drilling 10 drill holes (exploratory borings) over 5 state nonferrous metallic minerals leases in St. Louis County, Minnesota about 8 miles west of Cook. The Explorer will use existing trails or cross open areas to access 8 exploratory boring sites. In order to access the remaining two exploratory borings the Explorer proposes to make 2 new trails in sections 9 and 10. These proposed access trails will cross wetlands when the ground is frozen. The drilling will begin in December of 2016. These 5 leases range in age from 4 to 12 years old.

Amended Notes on 12/28/2016: Vermillion Gold amended their exploration plan on December 28, 2016. The amendment adds a new drill site location in section 10, removes a proposed drill site location in section 2, and adds a new access trail in section 9.

State Minerals Lease Numbers: MM-10457, MM-10458, MM-10129, MM-10033, MM-10381-N. These leases range in age from 4 to 12 years old.

Public Land Survey Location: Sections 8-11, and 17, Township 62 North, Range 20 West St. Louis County, Minnesota

Types of exploration activity: The Explorer will use a track-mounted rotosonic drilling machine to drill exploratory borings. This type of drilling allows for the sampling of a cylinder of the unconsolidated glacial sediments that occur from ground surface to bedrock. In addition, around 10 feet of the uppermost bedrock is typically drilled and sampled also.

Expected time period of activity: December 2016 through April 2017

Plans to access exploration sites: The Explorer will use existing trails or cross open areas to access 8 exploratory boring sites. In order to access the remaining two exploratory borings the explorer proposes to make 2 new trails in sections 9 and 10. These proposed access trails which will cross wetlands when the ground is frozen.

Surface Ownership: There is a mixture of surface ownership interests over the state leases shown here, including the state of Minnesota and private ownership. The Explorer must have agreements in place with the surface owner prior to working on the property.

Explorer contact: Kate Lehmann, Vermillion Gold, Inc., (612) 338-5584 or Kate@NCMVgeo.com

Locator map for exploration plan activity

Exploration Plan Area

This small scale map displays the general location of the exploration plan relative to other cities in northern Minnesota. The following map provides more details on the proposed exploration area. See page 3 for a detailed map.

Maps and Data Disclaimer

The State of Minnesota makes no representations or warranties express or implied, with respect to the use of the information contained herein regardless of its format or the means of its transmission. There is no guarantee or representation to the user as to the accuracy, currency, suitability, completeness, usefulness, or reliability of this information for any purpose. The user accepts the information “as is.” The State of Minnesota assumes no responsibility for loss or damage incurred as a result of any user's reliance on this information. All maps, reports, data, and other information contained herein are protected by copyright. Permission is granted to copy and use the materials herein for any lawful noncommercial purpose. Any user of this information agrees not to transmit or provide access to all or any part of this information to another party unless the user shall include with the information a copy of this disclaimer.
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Regarding Drill Pad Sites for Exploratory Borings
The average size of a drill pad is 70’x70’ which is approximately 1/10 of an acre in extent. At this size it would take 400 exploratory drill pad sites to fill a 40 acre footprint. The 10 drill pad sites shown here are significantly exaggerated in size (100x) so they can be seen on the map.

Version of GIS Data
GIS state mineral lease boundaries, exploratory borings, and access trails shown are illustrations intended for locational purposes and should not be construed as certified survey drawings or official maps. The state of Minnesota’s land and mineral interests GIS data is mapped at the 40 acre level of resolution according to the Public Land Survey's Control Point Inventory GIS data. As a result the footprint shown may not represent the true extent for those leases under 40 acres.

Other Special Features including Natural Heritage Features and Historic & Archaeological Sites are not shown because they are non-public data. *Lease boundaries are for reference only. The state of Minnesota’s land and mineral interests GIS data is mapped at the 40 acre level of resolution. As a result the footprint shown may not represent the true extent for those leases under 40 acres.