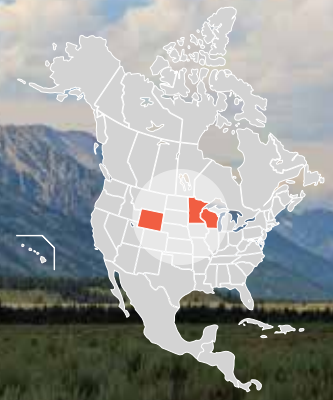




INDUSTRIAL MINERALS

CASE STUDY



PROJECT OVERVIEW

INDUSTRY
Frac Sand Production

CLIENT
Major Industry Leader

LOCATION
WY, MN, WI, USA

TIMELINE
2015 - 2017

BIG ROCK EXPLORATION partnered with major industrial minerals companies to supply a tailored package of geologic support services in order to help their clients identify future resource acquisition targets, and inventory known and potential near surface resource opportunities. With long-term supply contracts in place, it was imperative they hone in on high quality product within close proximity to their existing operation. Additionally, a large capital investment in a recently acquired land package created a strong economic urgency to maximize the available resource value and near-term development.

TARGET

IDENTIFY STRATEGIC,
PROXIMAL RESOURCES
WITH MAXIMUM ROI



BOOTS ON THE GROUND



MAPPING & GIS



SAMPLING PROGRAMS



EVALUATIONS & REPORTING

SERVICES

OPPORTUNITY

In order to meet the project demands and capitalize on the strategic opportunity, Big Rock developed a tailored service package starting with a robust targeting system that applied the client's specific economic criteria and specialized expertise of the regional geology. The plan provided field support to conduct complex field mapping and sampling and to manage exploration drilling at identified potential targets.

Subsequently, Big Rock also completed a regional exploration program focused on database construction, field mapping & sampling, and drilling, by utilizing a thorough literature review, geographic data analysis, short-term reconnaissance level mapping, sampling programs, and desktop studies for additional opportunities such as wind energy and transload/storage facilities for aggregate materials necessary to development the region.



RESOURCE TARGET: FRAC SAND

High-purity quartz specimen discovered and analyzed by Big Rock Field Team at remote WY site.

RESULTS

Big Rock successfully identified several targets that matched the client's internal acquisition criteria for future development opportunities, ensuring their ability to fulfill long-term contracts with high quality frac sand consumers. The primary target resulted in a resource of greater than 25 million tons of Tier 1 frac sand, valued at more than \$2bn USD.

Big Rock also identified several potential aggregate resources onsite that could be used for construction, mineral resources, and if utilized, these resources will reduce development costs and exploit multiple supplementary value-added opportunities including development of a transload and storage facility.



25M TONS
TIER 1 FRAC SAND



\$2B
MARKET VALUE

LET'S WORK TOGETHER



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