

**DEPARTMENT OF ENVIRONMENTAL QUALITY  
OPENCUT MINING PROGRAM**

**ENVIRONMENTAL ASSESSMENT**

**LJ 155 GRAVEL SITE**

PROPONENT: Hudak Excavation, Inc.

LEGAL DESCRIPTION: SSE23, T6S, R20E

IMPLEMENTATION DATE: 1999

COUNTY: Carbon

DATE FOR COMPLETION OF FINAL RECLAMATION: Fall 2018

**TYPE AND PURPOSE OF ACTION:** Operator has applied for a 3.7-acre Mined Land Reclamation Contract where they plan to mine an unknown quantity of gravel from a 2.1 acre pit. Operator has submitted all application materials required under the Opencut Mining Act and Rules And Regulations governing that Act. Operator proposes to properly prepare, mine, and reclaim the site in an environmentally responsible manner to a postmining use of rangeland. Operator is legally liable through their contract with the state to reclaim the site.

N = not applicable or temporary or relatively insignificant impact.

Y = long-term or relatively significant impact may occur.

IMPACTS ON THE PHYSICAL ENVIRONMENT	
RESOURCE	[Y/N] POTENTIAL IMPACTS AND MITIGATION MEASURES
1. LOCATION, TOPOGRAPHY, AND GEOLOGIC AND EDAPHIC CHARACTERISTICS. SPECIAL CONSIDERATIONS, POTENTIAL IMPACTS, AND MITIGATION MEASURES.	<p>N - Location and topography. The site is on the east and west sides of a county road. On the west side of the road is the new concrete batch plant set up on the flat bench area. On the east side of the road is the 2.1 acre pit area on the edge of the bench above the Rock Creek valley. After mineral removal, the site will be graded to a stable condition and blended into the surrounding topography. The topography will be permanently altered with a graded highwall and lower pit floor remaining.</p> <p>Geologic characteristics. The site is in the sedimentary plains portion of the state. The gravel mineral deposit to be mined is over 20 feet thick. No significant geological impacts are anticipated.</p> <p>Edaphic characteristics. Soil thickness is plus or minus 6 inches over gravel. Overburden was not evident in the adjacent pits. The plan calls for salvaging all available soil material and using it for site reclamation.</p>
2. SURFACE WATER AND GROUNDWATER RESOURCES INCLUDING LOCATION, QUANTITY, QUALITY, STRUCTURES, AND USES. SPECIAL CONSIDERATIONS, POTENTIAL IMPACTS, AND MITIGATION MEASURES.	<p>N - No groundwater is apparent within or around the mine area. If mining goes deep enough, groundwater may be encountered; however, it is unlikely that surface water and groundwater resources will be affected by the operation. There are no wells in the immediate area. Above-ground fuel storage tanks are on the concrete batch plant site. Operator has committed to protecting water resources.</p>
3. AIR QUALITY. SPECIAL CONSIDERATIONS, POTENTIAL IMPACTS, AND MITIGATION MEASURES.	<p>N - Pollutants and particulates may be produced on a temporary basis by this operation. Operators are required to comply with state air quality regulations. The site is relatively small and is likely to be used only occasionally as a source of roadbed and fill material.</p>

<p>4. PAST MINING DISTURBANCE, PRESENT LAND USE AND VEGETATION, PROPOSED POSTMINING LAND USE AND VEGETATION, AND WEED CONTROL. - SPECIAL CONSIDERATIONS, POTENTIAL IMPACTS, AND MITIGATION MEASURES.</p>	<p>N - Past mining disturbance. There is a small, old, 0.5-acre pit on the south end of the east side area. On the adjacent property on north end of the site is Russ Purcell's active mining operation.</p> <p>Present land use and vegetation. The west area appears to be used as irrigated pasture. The east area may be irrigated pasture or native range. The Montana Natural Heritage Program (MNHP) reports no element occurrences within or near the site.</p> <p>Proposed postmining land use and vegetation. The site will be reclaimed to pasture or rangeland.</p> <p>Weed control. Operator has committed to appropriate weed control measures. The county weed control board has been notified of the operation.</p>
<p>5. COMMON AQUATIC, TERRESTRIAL, AND AVIAN HABITATS AND SPECIES. SPECIAL CONSIDERATIONS, POTENTIAL IMPACTS, AND MITIGATION MEASURES.</p>	<p>N - The site consists of grazing land which provides food for wildlife. Below the east site on the bench face are groves of trees and shrubs that provide cover for wildlife. At worst, the operation will only occasionally disturb wildlife through equipment movement and noise. Mining and reclamation should not alter the shrubby habitat.</p>
<p>6. FRAGILE, RARE, THREATENED, OR ENDANGERED HABITAT AND SPECIES. SPECIAL CONSIDERATIONS, POTENTIAL IMPACTS, AND MITIGATION MEASURES.</p>	<p>N - None of the mentioned resources are apparent. The MNHP reports no element occurrences within or near the site.</p>
<p>7. HISTORICAL AND ARCHAEOLOGICAL SITES. SPECIAL CONSIDERATIONS, POTENTIAL IMPACTS, AND MITIGATION MEASURES.</p>	<p>N - Site of the proposed operation has already been impacted by mining in the past. Any cultural resources which would have been present would have been destroyed. If cultural resources are found during mining and reclamation operations, operator has committed to promptly notifying the State Historic Preservation Office and routing the operation around the site of discovery for a reasonable time until salvage can be made.</p>
<p>8. AESTHETICS. SPECIAL CONSIDERATIONS, POTENTIAL IMPACTS, AND MITIGATION MEASURES.</p>	<p>N - Any aesthetic impact would be minor as the site has been impacted by past mining. The site is relatively small and not in an area of focus by passersby. The closest residence is over 1,000 feet away and Purcell's operation is closer to it.</p>
<p>9. EFFECTS ON OTHER NATURAL RESOURCES. SPECIAL CONSIDERATIONS, POTENTIAL IMPACTS, AND MITIGATION MEASURES.</p>	<p>N - There should be no impacts on other natural resources.</p>
<p>10. OTHER ENVIRONMENTAL OR OPERATIONAL CONSIDERATIONS SUCH AS ROAD CONSTRUCTION AND RECLAMATION, MINERAL STOCKPILE DISPOSITION, WASTE DISPOSAL, AND SPECIAL COMMITMENTS.</p>	<p>N - The site is right next to the county road. All mineral should be used off site; otherwise, operator will leave stockpiles in an acceptable condition. All wastes will be properly disposed of. This operation requires no special commitments other than those discussed above.</p>

**IMPACTS ON THE HUMAN POPULATION**

RESOURCE	[Y/N] POTENTIAL IMPACTS AND MITIGATION MEASURES
<p>11. HUMAN HEALTH AND SAFETY. Will the project add to health and safety risks in the area?</p>	<p>N - Health and safety: This project should not increase health and safety risks in the area if the operator and landowner manage the site in a responsible manner. Operator is required to comply with OSHA and MSHA regulations.</p>
<p>12. INDUSTRIAL, COMMERCIAL, AND AGRICULTURAL ACTIVITIES AND PRODUCTION. Will the project alter these activities?</p>	<p>N - Industrial, commercial, or agricultural activities in the area will not be significantly affected by the project.</p>
<p>13. QUANTITY AND DISTRIBUTION OF EMPLOYMENT. Will the project create, move, or eliminate jobs?</p>	<p>N - The quantity or distribution of employment in the project area will not be significantly affected by the project.</p>

14. LOCAL AND STATE TAX BASE AND TAX REVENUES. Will the project create or eliminate tax revenue?	N - Local and state tax revenues have not been significantly affected by similar operations in the state.
15. DEMAND FOR GOVERNMENT SERVICES. Will substantial changes in road use occur? Will other facilities and services be affected or needed?	N - The operator will use county and state roads to haul his product. No other government services should be significantly affected.
16. LOCALLY ADOPTED ENVIRONMENTAL PLANS AND GOALS. Are federal, state, county, city, tribal, or private zoning or management plans in effect?	N - The author is not aware of any other environmental plans or goals. The local zoning authority has been contacted and clearance obtained.
17. ACCESS TO AND QUALITY OF RECREATIONAL AREAS. Will mining and reclamation activities affect the access to or quality of recreation areas?	N - Access to or the quality of recreational areas will not be affected by the project.
18. DENSITY AND DISTRIBUTION OF POPULATION AND HOUSING. Will the project add to the area's population and require additional housing?	N - Population or housing density and distribution will not be significantly affected by the project.
19. SOCIAL STRUCTURES AND MORES. Will the project cause disruption of native or traditional lifestyles or communities?	N - The local social structure or mores will not be significantly affected by the project.
20. CULTURAL UNIQUENESS AND DIVERSITY. Will the project cause a shift in a unique quality of the area?	N - The local cultural uniqueness or diversity will not be significantly affected by the project.
21. OTHER SOCIAL AND ECONOMIC CIRCUMSTANCES.	N - Other significant social or economic circumstances are not apparent.

22. Alternatives Considered: Denial. The owner of the mineral resource would be denied full utilization of his property at this time. The operator may seek another mineral source.

23. Public Involvement, Agencies, Groups or Individuals contacted: Montana Natural Heritage Program, county weed control board, State Historic Preservation Office, and local zoning authority.

24. Other Governmental Agencies with Jurisdiction, List of Permits (that may be) Needed: Montana Department of Environmental Quality, air quality and storm water discharge permits; United States Department of Labor, safety permit; Montana Department of Labor & Industry, safety permit.

25. Magnitude and Significance of Potential Impacts: Any impacts should be temporary or relatively insignificant and confined to the general area. Implementation of the Mining And Reclamation Plan should return this area to an aesthetically pleasing and useful condition.

26. Regulatory Impact on Private Property: The analysis conducted in response to the Private Property Assessment Act indicates no impact. The Department does not plan to deny the application or impose conditions that would restrict the use of private property.

Recommendation for Further Environmental Analysis:

EIS     More Detailed EA     No Further Analysis

EA completed and Y/N checked by Mark Carlstrom, Mine Reclamation Specialist, on 1/6/99.

EA approved by Jerry Burke, Opencut Mining Program Supervisor: \_\_\_\_\_  
Signature Date