ROUTT COUNTY

ROAD & BRIDGE

P. O. Box 773598
Steamboat Springs, CO 80477
Phone: 970-879-0831
Fax: 970-879-3992

Permit Application

Type of permit applied for:

Grading and Excavating ☐
Cattle Guard Installation ☐
Adopt A Highway ☐
other _____

Driveway ☑
Special Event ☐
Plow ☐

Utility Installation ☐
Oversize/Overweight ☐
Work in Right-of Way ☐

Property Information

Project physical address: 299241001 City: Hayden
Parcel Number: 944241001 Section(s): 26 Township: 5N 87W
Area to be disturbed: <0.5 Acre

Owner/Applicant Information

Applicant/contractor: Twentymile Coal, LLC
Mailing Address: 29515 RCR 27 City: Oak Creek State: CO Zip: 80467
Phone number: 9708702718 Email: mblomquist@peabodyenergy.com
Property Owner: Camilletti & Sons, Inc
Mailing Address: HCR 66 PO Box 69 City: Steamboat Sp[illegible] State: CO Zip: 80487-9804
Phone Number: 970-879-5260 Email:
Contractor Name: Bower Brothers Const. Phone number: 970-326-8562

Project Description:
One driveway installation for permanent access to two proposed bore hole pad locations for the Twentymile Coal Mine.

Driveway Permit
(Acctg # 03.00.06.000.5635)

Permit Needed: For installation driveway that accesses a county road. Note for driveways accessing the state highway a CDOT access permit is required – contact CDOT directly for permitting requirements. If a driveway exceeds more than 300 cubic yards of disturbance, a Grading and Excavating permit will be required along with its requirements. Driveways longer than 100 feet require fire department approval. http://www.co.routt.co.us/DocumentCenter/View/443

Permit Application shall include:

- ☐ Site Plan/design (either CAD drawings or hand drawn to scale)
- ☐ Birdseye map
- ☐ Location, Parcel ID number, address

Permit Process:

1. Submit complete permit application to the County Road & Bridge Department offices at 136 6th Street, between the hours of 7:30 am and 4:30 pm.
2. R & B reviews application and inspects site.
3. Revisions are made by applicant if needed.
4. R & B re-reviews and re-inspects if needed.
5. If acceptable application is approved
6. Applicant pays fee and permit issued.
7. Applicant conducts work in accordance with plans, maintains erosion control, and updates SWMP as needed.
8. R & B inspects completed work
9. If erosion, re-vegetation and structural measures are met, permit is closed

Fee Calculation:

- Driveway fee $65.00
  Pre and post construction inspections included in permit

One Driveway per parcel. Visit R&B office for special cases.

Penalty fees for working in ROW without a permit/bond

First offense $100.00
Each subsequent offense $300.00

Twentymile Coal, LLC
Foidel Creek Mine
29515 RCR 27
Oak Creek, CO 80467
970.879.3800

May 1st, 2018

Routt County Road & Bridge
136 6th Street
PO Box 773598
Steamboat Springs, Colorado 80477

RE: Twentymile Coal, LLC - Foidel Creek Mine (Permit No. C-82-056), Technical Revision (TR18-90) WMD 14, 15, 16 & 17-Left Thickener Underflow Boreholes, Pads and Pipelines

Sir or Madem,

Twentymile Coal, LLC (TC) has requested the Colorado Division of Reclamation Mining and Safety's approval of a Technical Revision to our existing approved Permit for construction, operation, and reclamation of four new Thickener Underflow (TUF) boreholes, drill pads, additional pipelines, and associated ancillary equipment and facilities in the Western Mining District (WMD) - Panels 14, 15, 16, & 17-Left. The new thickener underflow installations are needed both as backup for the current system, and ultimately, to replace the 2SW and 12-Left, which are currently being used, if and when either of these boreholes are no longer functional. Enclosed is TC's application for the associated 14-Left and 15-Left borehole construction for the required Driveway and Grading & Excavation permits. Routt County Applications associated with the 16-Left and the 17-Left boreholes will be submitted at an later date.

The 14 & 15-Left TUF boreholes will be located north of the 12-Left TUF borehole. Both of the locations will be within 300 feet from Routt County Road 27. TUF boreholes 14-Left & 15-Left will be accessed using one County Road driveway with a light use road going between the two pads. TUF 16-Left & 17-Left will be accessed using the existing driveway that is used to access the existing 16-Left Pad. Both boreholes will be drilled into the inby opening of their associated panel; the depths are 1,370 feet and 1,381 feet respectively.

Installation of the new WMD Thickener Underflow Boreholes will involve placement of construction erosion controls (silt fence and/or straw wattles), removal and stockpiling of soil materials and the limited vegetation from the pad areas and newly disturbed roads, construction of the designed drainage structures (ditches and rock sumps), minor cut and fill grading to establish the access road and level drill pads, placement of gravel surfacing on the roads and pad areas, excavation of temporary cuttings pits on the drill pads, and drilling and casing of the boreholes. On completion of drilling and casing operations, the cuttings pits will be allowed to dry-out, material excavated from the pits will be replaced and graded, and gravel surfacing will be extended for the affected areas to control erosion and sediment and provide an all-weather operating surface. The completed thickener underflow borehole installations will include the light-use road access, soil material stockpiles, the leveled drill pads (maximum 200' x 200'), 14-inch diameter cemented surface casings (60 feet deep), 12.25-inch diameter cased boreholes, and covered 8-foot diameter CMP manholes with lightning protection.

Partial or full reclamation of the thickener underflow borehole disturbances will include, as appropriate, removal of the manhole structures, plugging and sealing of the boreholes consistent with State Engineer requirements, removal of pad and road surfacing materials, grading of pad and road areas to a stable configuration that blends with the surrounding terrain, replacement of soil materials, and revegetation with the approved rangeland seed mix. Given that the thickener underflow boreholes will be enclosed within the manhole structures, it will not be necessary to

maintain the full pad areas used for drilling. As appropriate, TC may reclaim portions of the pad areas, leaving only the light-use access roads and a limited area around the manholes for inspection and maintenance access.

The pipeline installations will involve removal and windrowing of soil materials for the 40-foot maximum width pipeline construction areas; trenching in most areas; placement of suitable bedding materials; placement, connection, and pressure testing of the pipelines; backfilling and compaction of suitable fill materials around and over the pipelines; backfilling and compaction of the trenches; re-grading; and replacement of soil materials and re-vegetation of all disturbed areas. Parts of the pipeline disturbance will occur within the same disturbance corridor previously used for mine roads and or County Roads.

The total length of the new segment of pipeline once it is constructed through all of the borehole locations will be around 7,245 feet from the west side of where the existing pipeline crosses under Fish Creek. The pipeline will be a double walled HDPE pipe system, with an 8-inch carrier pipe inside a 12-inch containment pipe, buried approximately 5-feet deep. Electronic moisture sensors in the interstice between the inner and outer pipe connected to the pump controls and shut-off valves will provide for timely leak detection and spill prevention. Access/Inspection manholes will be established at key points along the pipeline route. It is anticipated that a maximum of 5 manholes will be placed along the new pipeline disturbance corridors.

The further thickener underflow borehole (15-Left) will be upwards of 20,000 feet from the source of the slurry. The pump assembly recently installed at the 2SW TUF borehole will aid in the conveyance of the slurry to the WMD TUF sites.

The pipeline disturbance areas will be progressively reclaimed as the pipelines are constructed, with a maximum of approximately 1,000 feet of trench being open at any given time. While the entire pipeline disturbance areas will be reclaimed within a reasonable time period following pipeline installation, TC does not consider these areas to be reclaimed for purposes of reporting, since there is some potential that they may be re-disturbed for pipeline repair or maintenance in the future. At the time of final reclamation, inspection manholes will be removed or demolished to 3-feet below grade, and the pipeline will be cut-off below grade, capped, and abandoned in place.

Detailed design, operations, and reclamation information for the proposed activities is provided as both revised PAP text and exhibits; and revised maps, reflecting the location and configuration of the new facilities, pipelines, and roads.

We would like to proceed with this project ASAP to avoid any operation delays. We, therefore, appreciate your consideration, cooperation, and assistance in facilitating timely review and approval of this application. After you have opportunity to review the accompanying information, please feel free to contact me with any questions or to discuss submittal materials or related matters.

Sincerely,

Miranda Kawcak

Miranda Kawcak
Environmental Engineer
mblomquist@peabodyenergy.com
970-870-2718

cc: Ed Brady /TC
Jerry Nettleton